



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 15, 2017 – 08:59 am GMT

PDB ID : 4V45
Title : E. COLI (lacZ) BETA-GALACTOSIDASE-TRAPPED 2-F-GALACTOSYL-
ENZYME INTERMEDIATE
Authors : Juers, D.H.; McCarter, J.D.; Withers, S.G.; Matthews, B.W.
Deposited on : 2001-09-13
Resolution : 2.60 Å(reported)

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

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

A user guide is available at

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : trunk28620
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : recalc28972

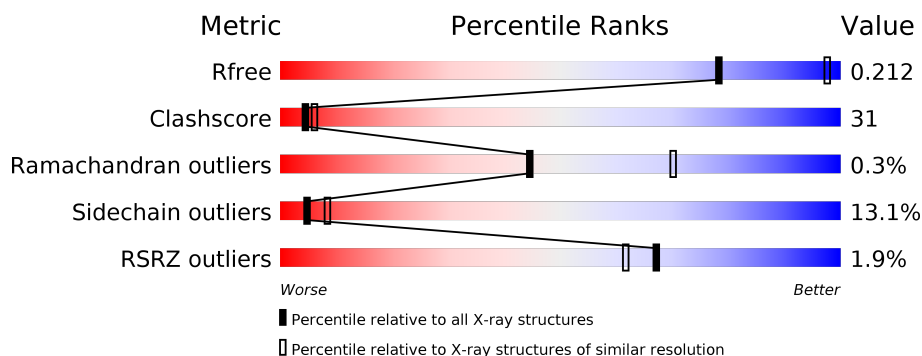
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 Å.

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








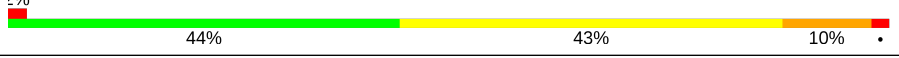
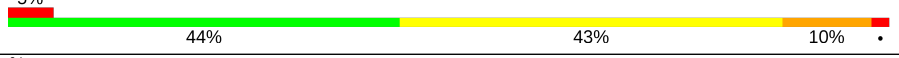
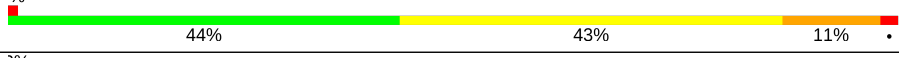
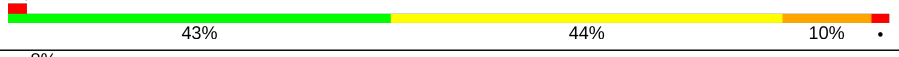
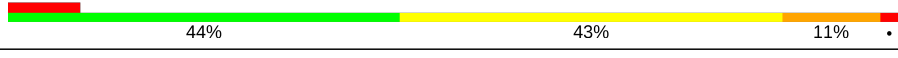
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	100719	2542 (2.60-2.60)
Clashscore	112137	2895 (2.60-2.60)
Ramachandran outliers	110173	2848 (2.60-2.60)
Sidechain outliers	110143	2848 (2.60-2.60)
RSRZ outliers	101464	2550 (2.60-2.60)

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

Mol	Chain	Length	Quality of chain
1	A	1023	<div> <div>43%</div> <div>43%</div> <div>11%</div> <div>•</div> </div>
1	B	1023	<div> <div>44%</div> <div>43%</div> <div>11%</div> <div>•</div> </div>
1	C	1023	<div> <div>44%</div> <div>43%</div> <div>11%</div> <div>•</div> </div>
1	D	1023	<div> <div>44%</div> <div>43%</div> <div>11%</div> <div>•</div> </div>
1	E	1023	<div> <div>44%</div> <div>43%</div> <div>10%</div> <div>•</div> </div>
1	F	1023	<div> <div>44%</div> <div>43%</div> <div>10%</div> <div>•</div> </div>

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Mol	Chain	Length	Quality of chain
1	G	1023	
1	H	1023	
1	I	1023	
1	J	1023	
1	K	1023	
1	L	1023	
1	M	1023	
1	N	1023	
1	O	1023	
1	P	1023	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
1	CME	A	1021	-	-	X	-
1	CME	B	1021	-	-	X	-
1	CME	C	1021	-	-	X	-
1	CME	D	1021	-	-	X	-
1	CME	E	1021	-	-	X	-
1	CME	F	1021	-	-	X	-
1	CME	G	1021	-	-	X	-
1	CME	H	1021	-	-	X	-
1	CME	I	1021	-	-	X	-
1	CME	J	1021	-	-	X	-
1	CME	K	1021	-	-	X	-
1	CME	L	1021	-	-	X	-
1	CME	M	1021	-	-	X	-
1	CME	N	1021	-	-	X	-
1	CME	O	1021	-	-	X	-
1	CME	P	1021	-	-	X	-
2	2FG	A	2001	X	-	-	-
2	2FG	B	2001	X	-	-	X
2	2FG	C	2001	X	-	-	-
2	2FG	D	2001	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	2FG	E	2001	X	-	-	-
2	2FG	F	2001	X	-	-	-
2	2FG	G	2001	X	-	-	-
2	2FG	H	2001	X	-	-	-
2	2FG	I	2001	X	-	-	-
2	2FG	J	2001	X	-	-	-
2	2FG	K	2001	X	-	-	-
2	2FG	L	2001	X	-	-	-
2	2FG	M	2001	X	-	-	-
2	2FG	N	2001	X	-	-	-
2	2FG	O	2001	X	-	-	-
2	2FG	P	2001	X	-	-	-
3	MG	B	2002	-	-	-	X
3	MG	C	2002	-	-	-	X
3	MG	F	2002	-	-	-	X
3	MG	G	2002	-	-	-	X
3	MG	H	2002	-	-	-	X
3	MG	J	2003	-	-	-	X
3	MG	L	2002	-	-	-	X
3	MG	O	2002	-	-	-	X
4	NA	A	2005	-	-	-	X
4	NA	B	2005	-	-	-	X
4	NA	E	2004	-	-	-	X
4	NA	F	2004	-	-	-	X
4	NA	G	2005	-	-	-	X
4	NA	H	2005	-	-	-	X
4	NA	J	2004	-	-	-	X
4	NA	J	2005	-	-	-	X
4	NA	K	2005	-	-	-	X
4	NA	L	2005	-	-	-	X
4	NA	M	2004	-	-	-	X
4	NA	M	2005	-	-	-	X
4	NA	N	2005	-	-	-	X
4	NA	P	2005	-	-	-	X

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 133984 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Beta-Galactosidase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	B	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	C	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	D	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	E	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	F	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	G	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	H	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	I	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	J	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	K	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	L	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	M	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	N	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	O	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			
1	P	1021	Total	C	N	O	S	0	2	0
			8219	5196	1454	1528	41			

There are 48 discrepancies between the modelled and reference sequences:

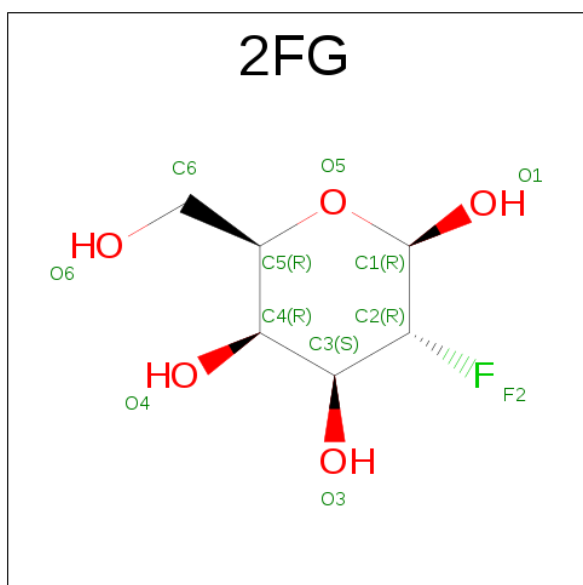
Chain	Residue	Modelled	Actual	Comment	Reference
A	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
A	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
A	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
B	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
B	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
B	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
C	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
C	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
C	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
D	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
D	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
D	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
E	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
E	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
E	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
F	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
F	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
F	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
G	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
G	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
G	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
H	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
H	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
H	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
I	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
I	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
I	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
J	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
J	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
J	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
K	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
K	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
K	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
L	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
L	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
L	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
M	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
M	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
M	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
N	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
N	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
N	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722

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Chain	Residue	Modelled	Actual	Comment	Reference
O	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
O	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
O	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722
P	748	CME	CYS	MODIFIED RESIDUE	UNP P00722
P	914	CME	CYS	MODIFIED RESIDUE	UNP P00722
P	1021	CME	CYS	MODIFIED RESIDUE	UNP P00722

- Molecule 2 is SUGAR (2-FLUORO-2-DEOXY-BETA-D-GALACTOPYRANOSE) (three-letter code: 2FG) (formula: C₆H₁₁FO₅).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	F	O	0	0
			11	6	1	4		
2	B	1	Total	C	F	O	0	0
			11	6	1	4		
2	C	1	Total	C	F	O	0	0
			11	6	1	4		
2	D	1	Total	C	F	O	0	0
			11	6	1	4		
2	E	1	Total	C	F	O	0	0
			11	6	1	4		
2	F	1	Total	C	F	O	0	0
			11	6	1	4		
2	G	1	Total	C	F	O	0	0
			11	6	1	4		
2	H	1	Total	C	F	O	0	0
			11	6	1	4		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	I	1	Total	C	F	O	0	0
			11	6	1	4		
2	J	1	Total	C	F	O	0	0
			11	6	1	4		
2	K	1	Total	C	F	O	0	0
			11	6	1	4		
2	L	1	Total	C	F	O	0	0
			11	6	1	4		
2	M	1	Total	C	F	O	0	0
			11	6	1	4		
2	N	1	Total	C	F	O	0	0
			11	6	1	4		
2	O	1	Total	C	F	O	0	0
			11	6	1	4		
2	P	1	Total	C	F	O	0	0
			11	6	1	4		

- Molecule 3 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	P	2	Total	Mg	0	0
			2	2		
3	G	2	Total	Mg	0	0
			2	2		
3	J	2	Total	Mg	0	0
			2	2		
3	D	2	Total	Mg	0	0
			2	2		
3	K	2	Total	Mg	0	0
			2	2		
3	E	2	Total	Mg	0	0
			2	2		
3	H	2	Total	Mg	0	0
			2	2		
3	B	2	Total	Mg	0	0
			2	2		
3	I	2	Total	Mg	0	0
			2	2		
3	C	2	Total	Mg	0	0
			2	2		
3	A	2	Total	Mg	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	N	2	Total 2	Mg 2	0	0
3	O	2	Total 2	Mg 2	0	0
3	L	2	Total 2	Mg 2	0	0
3	F	2	Total 2	Mg 2	0	0
3	M	2	Total 2	Mg 2	0	0

- Molecule 4 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	P	2	Total 2	Na 2	0	0
4	G	2	Total 2	Na 2	0	0
4	J	2	Total 2	Na 2	0	0
4	D	2	Total 2	Na 2	0	0
4	K	2	Total 2	Na 2	0	0
4	E	2	Total 2	Na 2	0	0
4	H	2	Total 2	Na 2	0	0
4	B	2	Total 2	Na 2	0	0
4	I	2	Total 2	Na 2	0	0
4	C	2	Total 2	Na 2	0	0
4	A	2	Total 2	Na 2	0	0
4	N	2	Total 2	Na 2	0	0
4	O	2	Total 2	Na 2	0	0
4	L	2	Total 2	Na 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	F	2	Total 2	Na 2	0	0
4	M	2	Total 2	Na 2	0	0

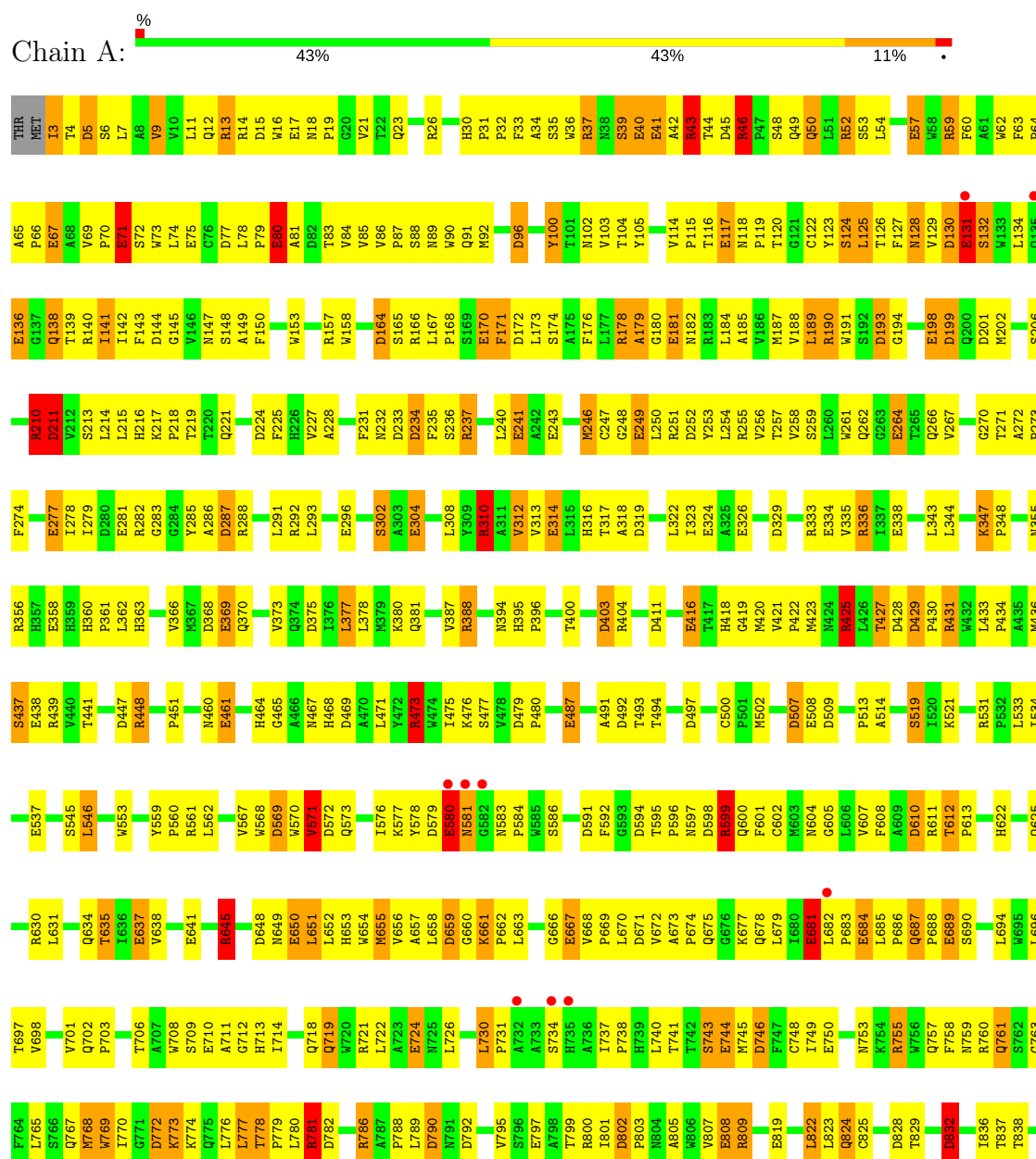
- Molecule 5 is water.

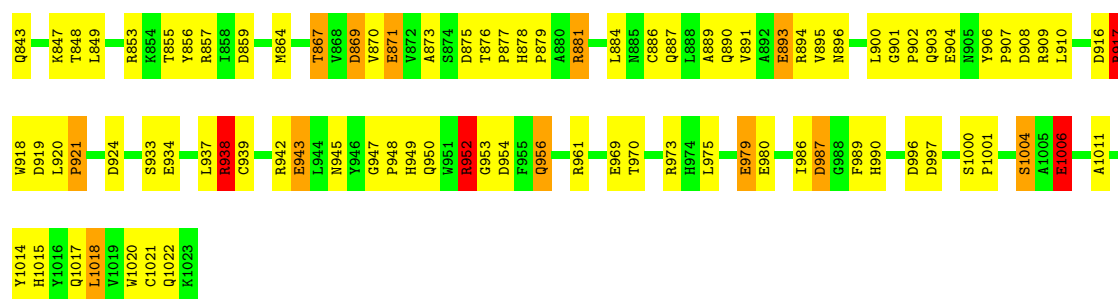
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	140	Total 140	O 140	0	0
5	B	140	Total 140	O 140	0	0
5	C	140	Total 140	O 140	0	0
5	D	140	Total 140	O 140	0	0
5	E	139	Total 139	O 139	0	0
5	F	140	Total 140	O 140	0	0
5	G	140	Total 140	O 140	0	0
5	H	141	Total 141	O 141	0	0
5	I	140	Total 140	O 140	0	0
5	J	140	Total 140	O 140	0	0
5	K	140	Total 140	O 140	0	0
5	L	140	Total 140	O 140	0	0
5	M	140	Total 140	O 140	0	0
5	N	140	Total 140	O 140	0	0
5	O	140	Total 140	O 140	0	0
5	P	140	Total 140	O 140	0	0

3 Residue-property plots

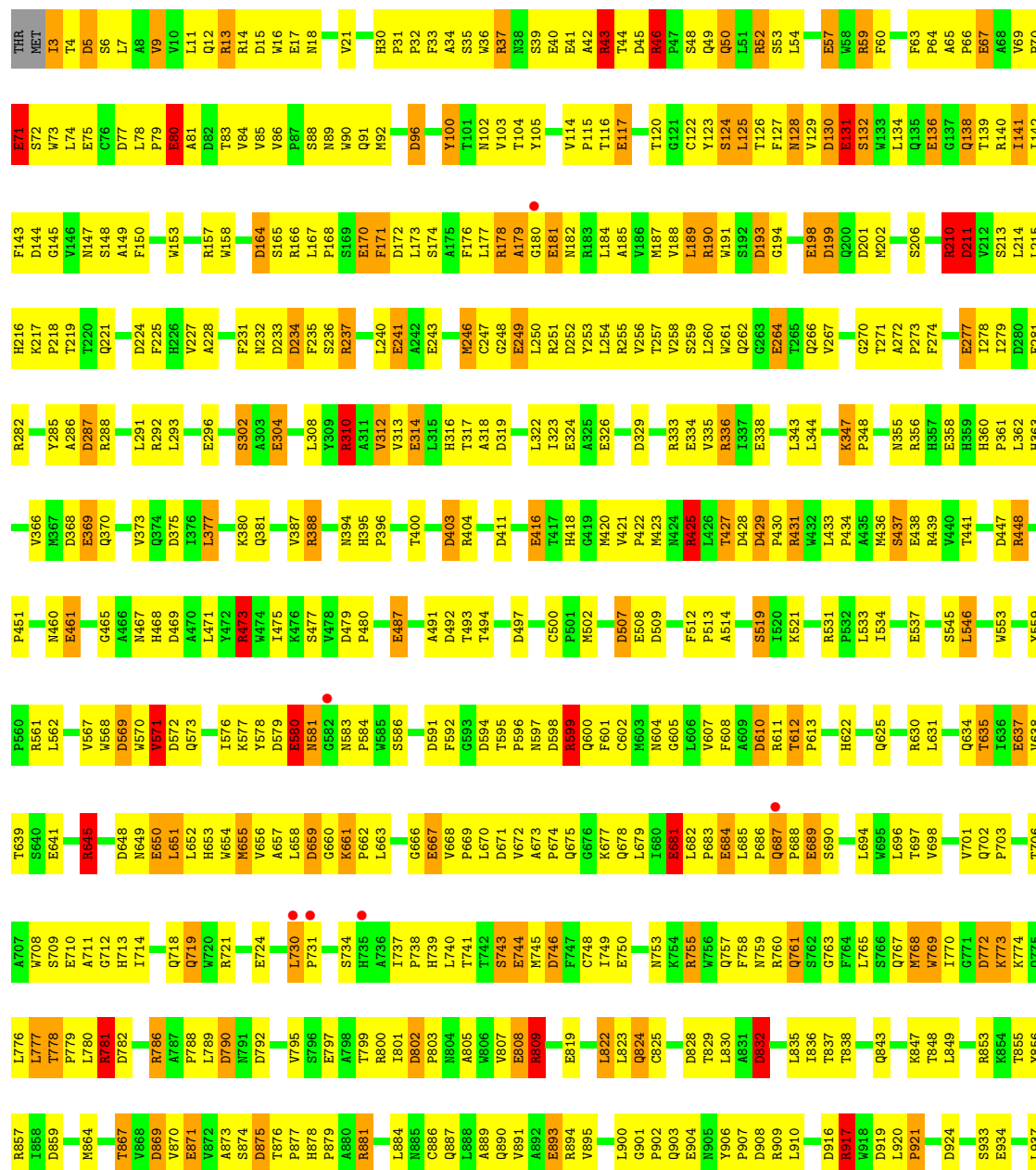
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are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

• Molecule 1: Beta-Galactosidase





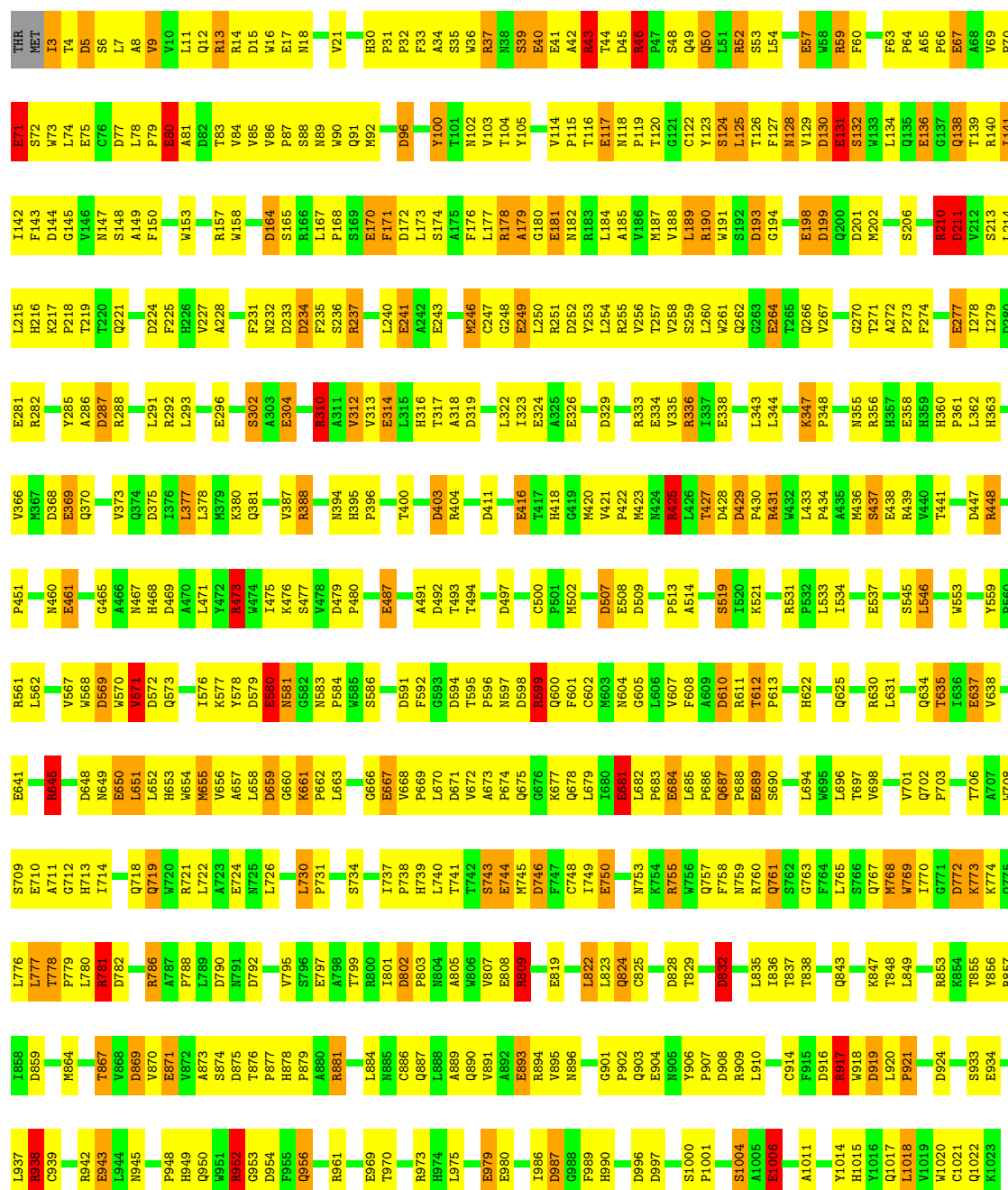
● Molecule 1: Beta-Galactosidase





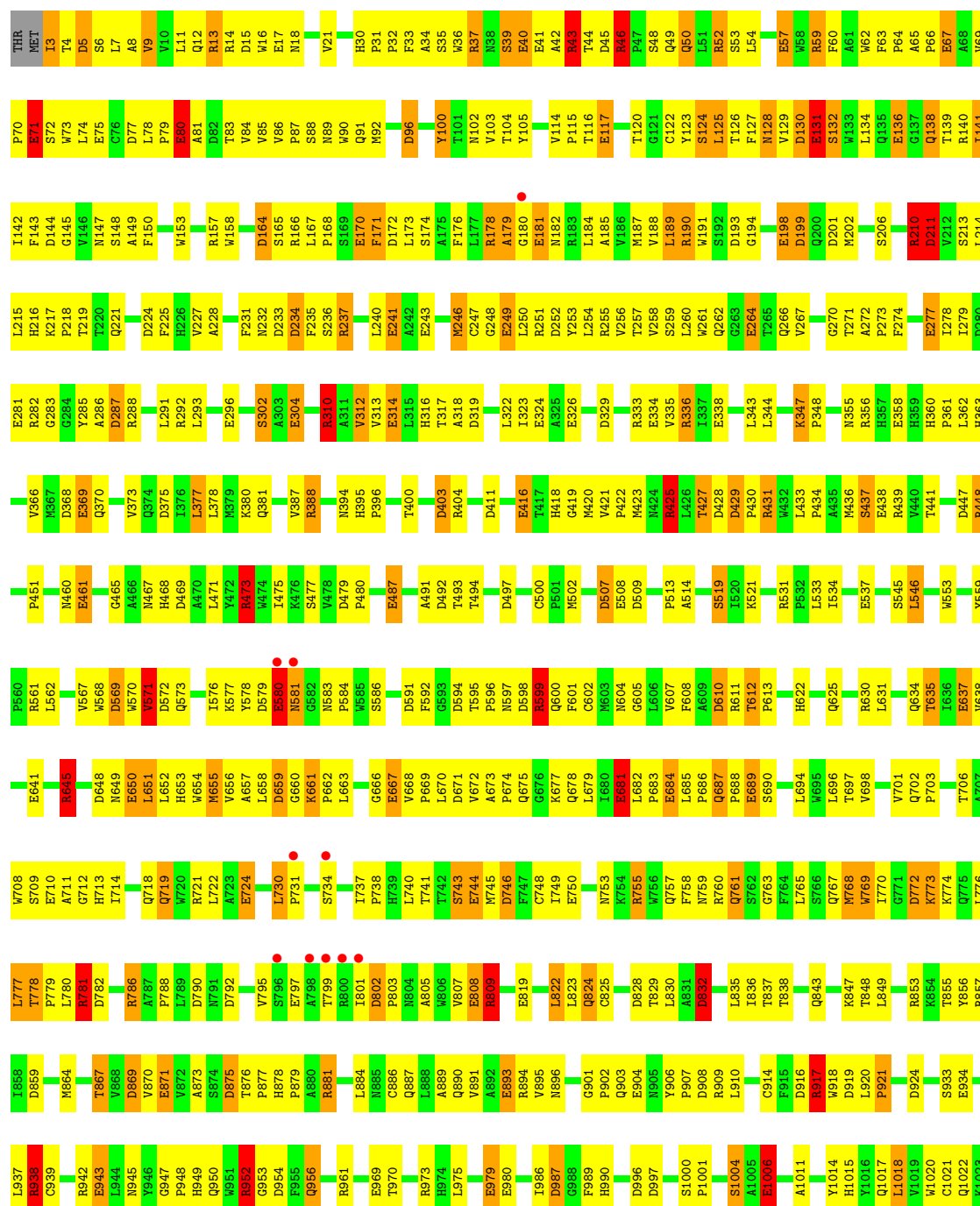
• Molecule 1: Beta-Galactosidase

Chain C: 44% 43% 11%



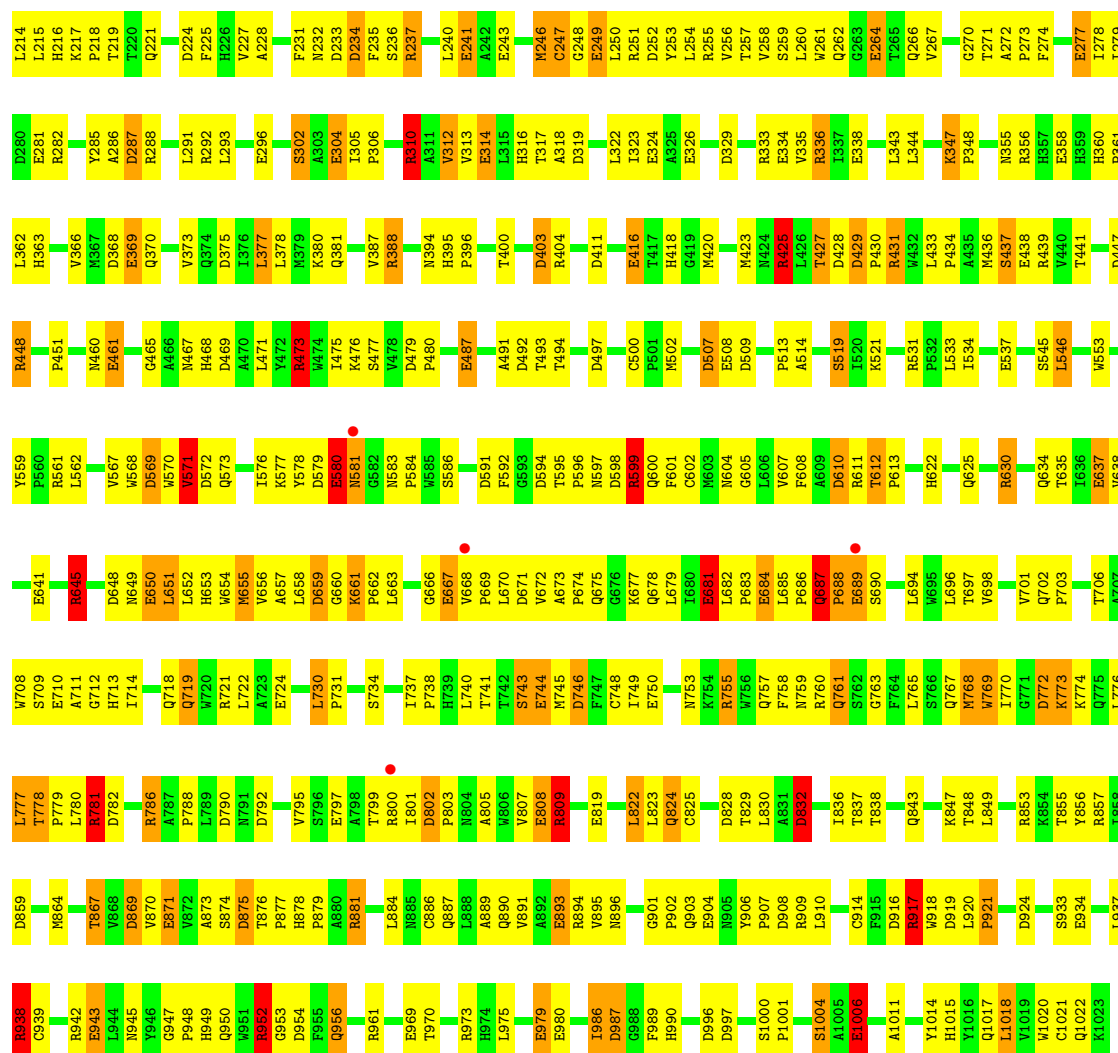
• Molecule 1: Beta-Galactosidase

Chain D: 44% 43% 11%

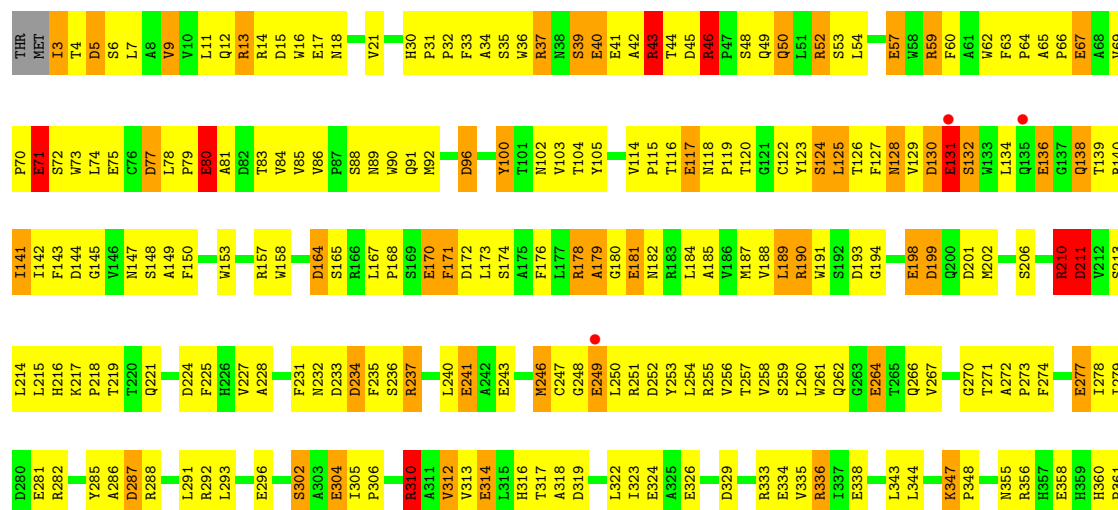
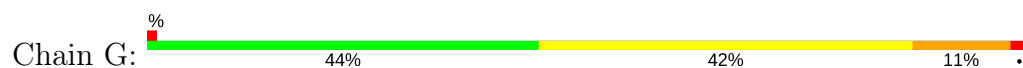


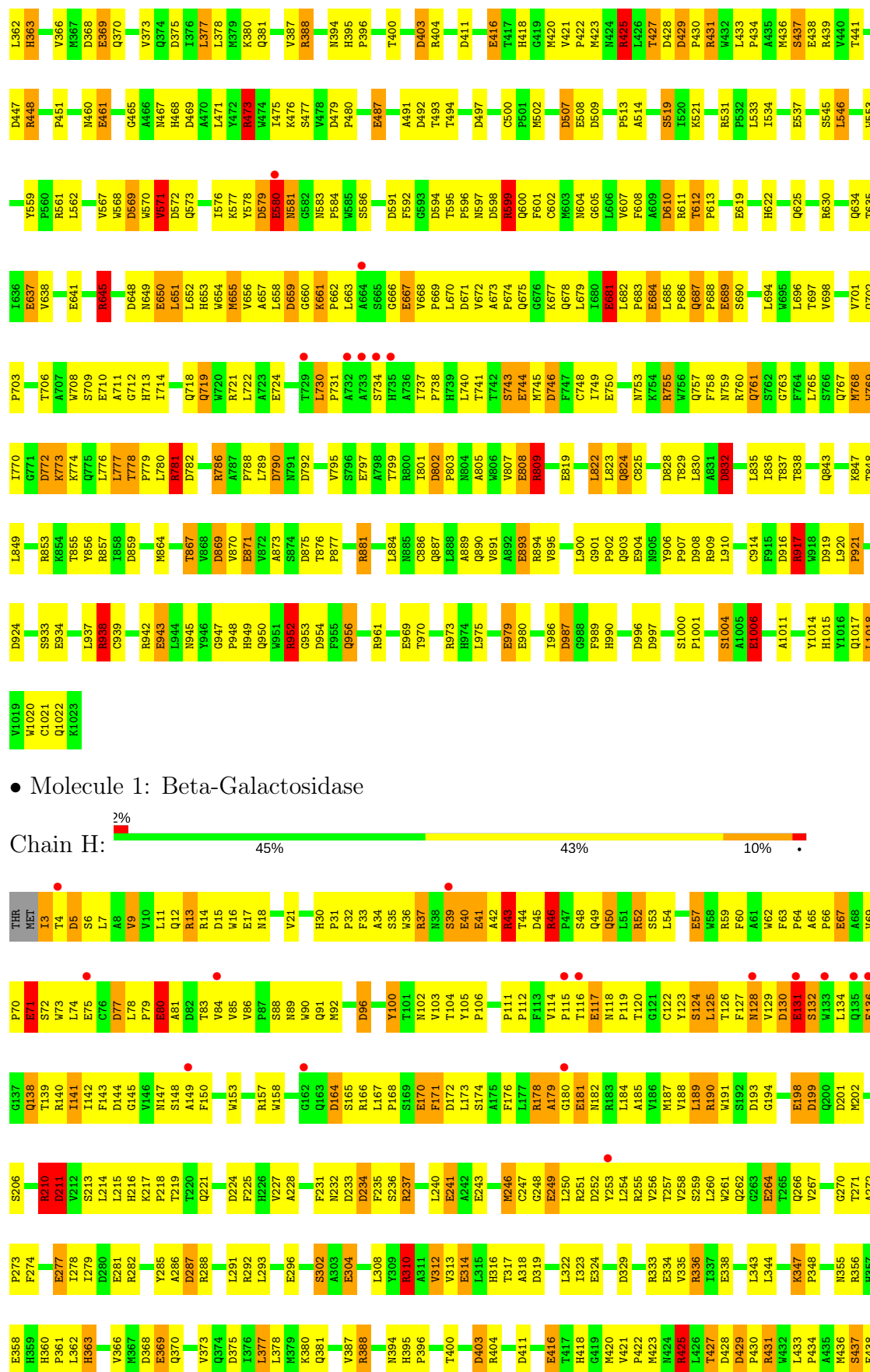


T141	P70	THR
T142	S71	ME1
T143	E72	I3
T144	W73	T4
G145	L74	D5
V146	E75	S6
M147	G76	L7
S148	D77	A8
A149	L78	V9
F150	P79	V10
W153	E80	L11
	A81	Q12
	D82	R13
R157	T83	R14
W158	V84	D15
	V85	W16
D164	V86	E17
S165	P87	N18
R166	S88	
L167	N89	V21
P168	W90	
S169	Q91	
E170	M92	H30
F171		P31
D172	D96	P32
L173	Y100	F33
S174	T101	A34
A175	N102	S35
F176	V103	W36
L177	T104	R37
R178	Y105	N38
A179		S39
G180	V114	E40
E181	T115	E41
M182	T116	A42
R183	E117	R43
L184	N118	T44
A185	P119	D45
V186	N118	R46
M187	T120	P47
L188	G121	S48
R189	C122	Q49
A190	Y123	Q50
W191	S124	L51
S192	L125	R52
D193	T126	S53
G194	T127	L54
	N128	
E198	V129	E57
D199	D130	W58
Q200	E131	R59
D201	S132	F60
M202	W133	A61
	L134	W62
	Q135	F63
	E136	P64
	G137	A65
	Q138	P66
	Q138	E67
	T139	A68
	P140	W69



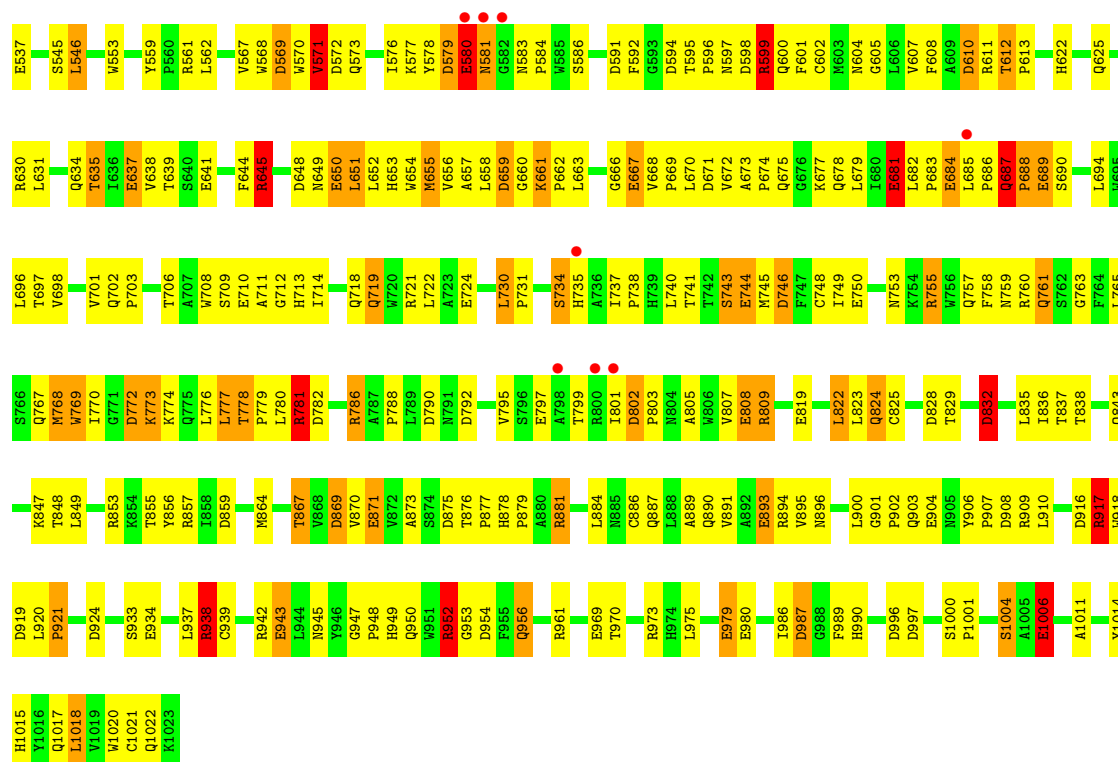
• Molecule 1: Beta-Galactosidase



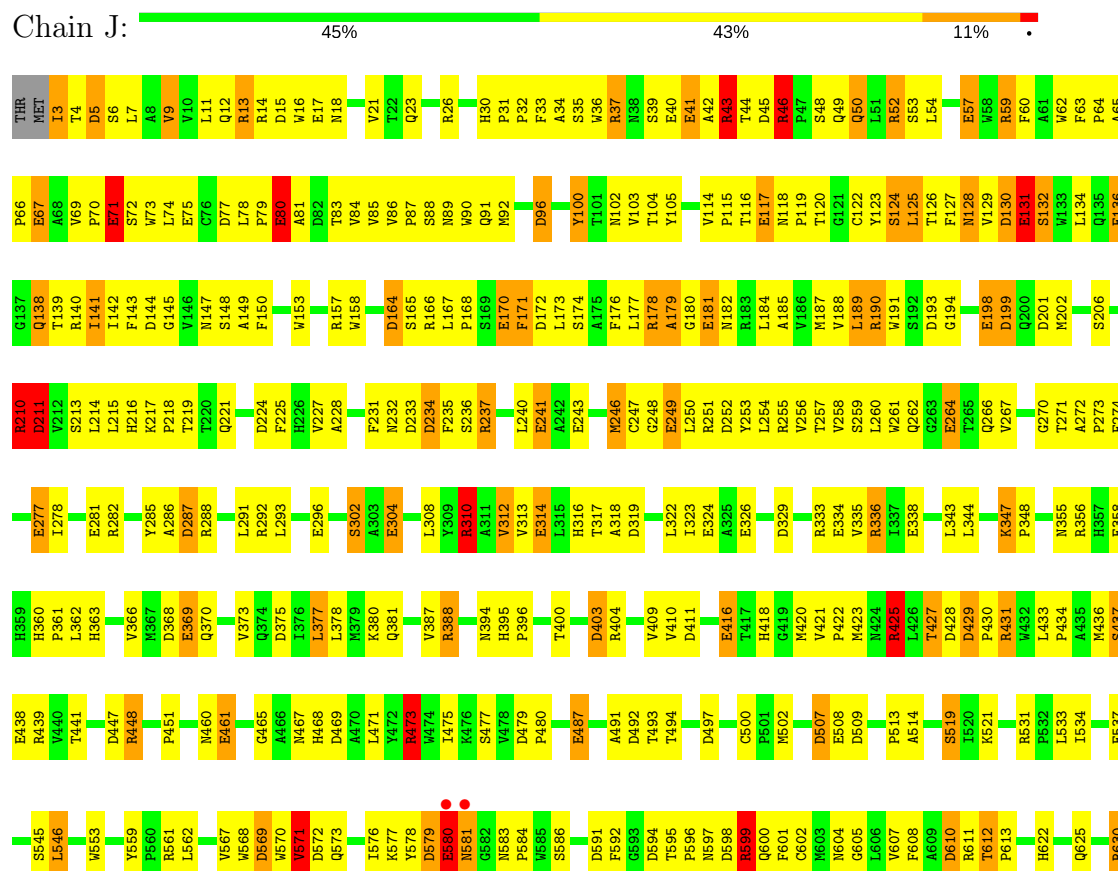


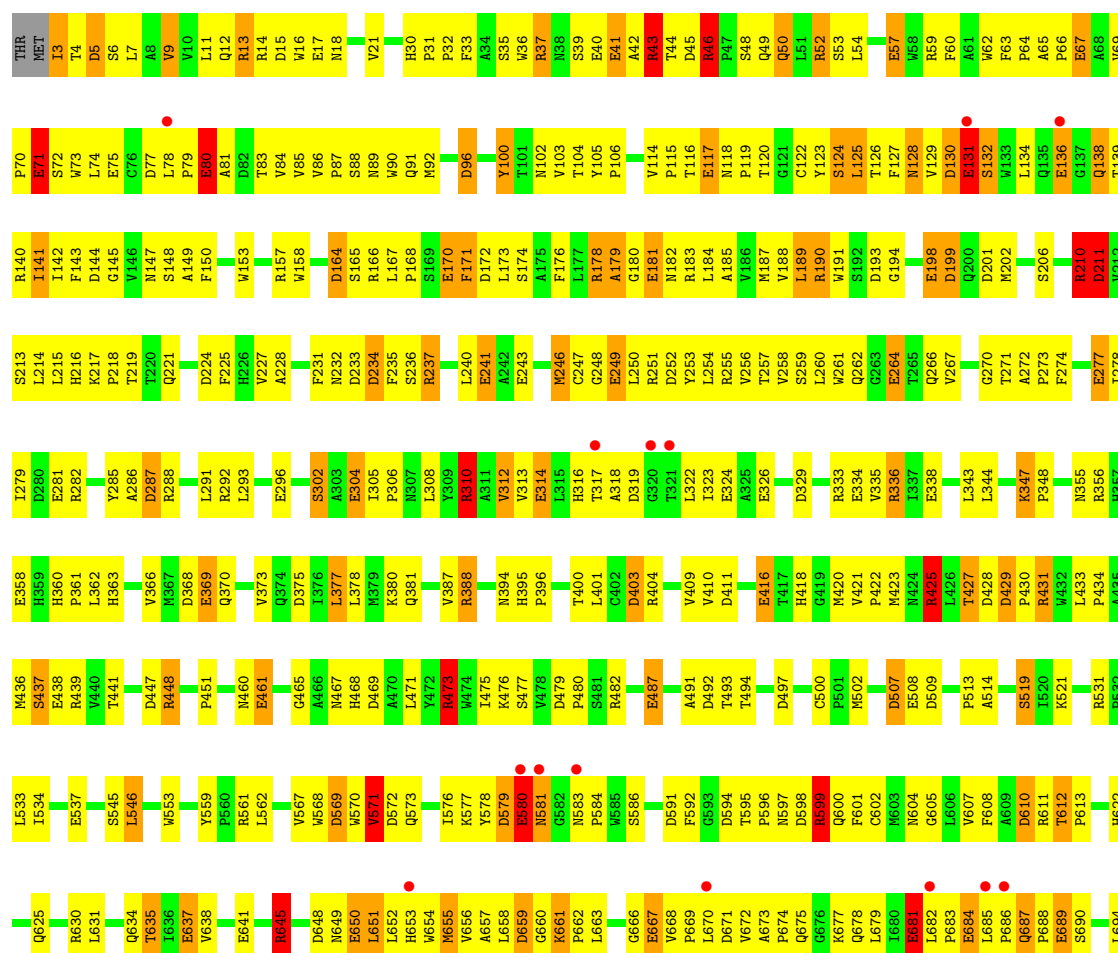


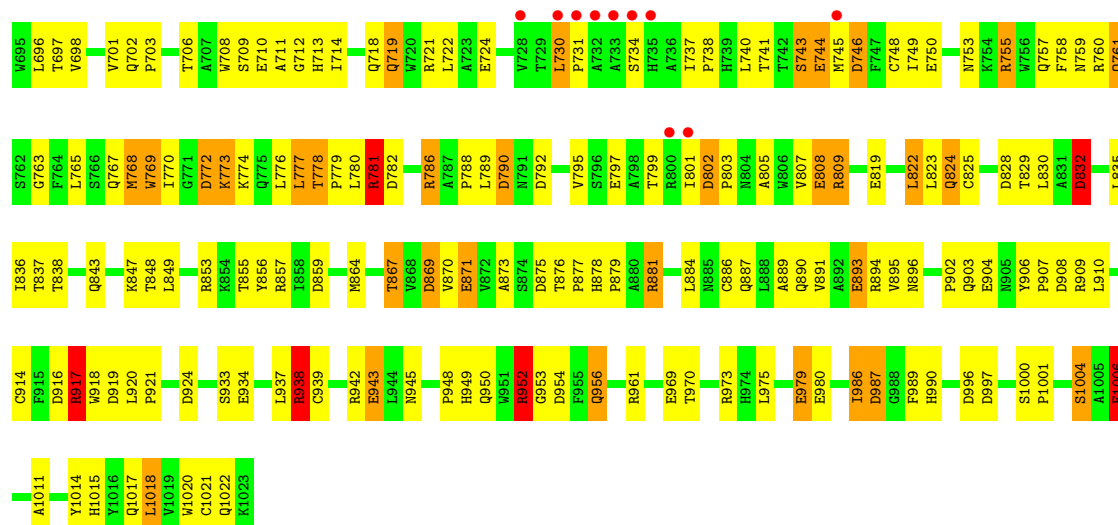
E438	H360	D280	L214	I141	P70	THR
A439	P361	E281	L215	I142	E71	ME1
V440	V440	R282	H216	F143	S72	I3
T441	H363		K217	D144	L74	T4
		Y285	P218	G145	E75	D5
D447	V366	A286	T219	V146	C76	S6
R448	P367	D287	T220	N147	D77	L7
	D368	R288	Q221	S148	L78	A8
P451	E369			A149	P79	V9
	C370	L291	D224	F150	V10	V10
M460	V373	R292	F225		E80	L11
E461		L293	H226	W153	A81	Q12
	Q374		V227		D82	R13
G465	D375	E296	A228	R157	T83	R14
A466	L376			W158	H84	D15
M467	L377	S302	F231	D164	V85	V16
H468	L378	A303	N232	S165	H86	E17
D469	R379	E304	D233	S166	P87	N18
A470	K380	L305	D234	R166	S88	
L471	Q381	P306	F235	L167	N89	
V472		R307	S236	P168	W90	
R473	V387	L308	R237	S169	D91	
W474	R388	Y309		E170	N92	H30
L475	C389	R310	L240	F171		P31
K476	S390	A311	E241	D172		P32
S477	H391	V312	A242	L173	D96	P33
V478		V313	E243	S174	Y100	A34
D479	N394	E314		A175	T101	S35
P480	H395	L315	W246	F176	N102	V36
	P396	H316	C247	L177	V103	R37
		T317	G248	R178	T104	N38
	T400	A318	E249	A179	Y105	S39
	D403	D319	L250	G180	P106	E40
A491	R404		R251	E181		E41
T493		L322	D252	N182	V114	A42
T494		I323	T253	R183	P115	R43
	D411	E324	L254	L184	T116	T44
		A325	R255	A185	E117	D45
D497	E416	E326	V256	V186	A46	R47
	T417		T257	M187	T120	P47
G500	H418	D329	V258	V188	Q121	S48
M501	G419		S259	L189	C122	Q49
M502	A420	R333	L260	R190	Y123	Q50
D507	V421	E334	W261	W191	S124	L51
E508	P422	V335	Q262	S192	L125	R52
D509	M423	R336	G263	D193	T126	S53
	V424	I337	E264	G194	F127	L54
	R425	E338	T265		N128	
F512	L426		Q266	E198	V129	E57
P513	T427	L343	V267	D199	R59	W58
A514	D428	L344		Q200	D130	R59
				D201	E131	F60
D429	P430	K347	G270	M202	S132	A61
S519	R431	P348	T271		W133	W62
I520			A272		L134	P63
K521	Q432		P273		Q135	P64
			F274	S206	E136	P64
R531	L433	N355	E277	R210	G137	A65
P532	P434	R356		D211	Q138	P66
L533	A435	H357		W212	T139	E67
K436		E358	T278	V212	P140	W68
I534	S427	P439	T279	S212		



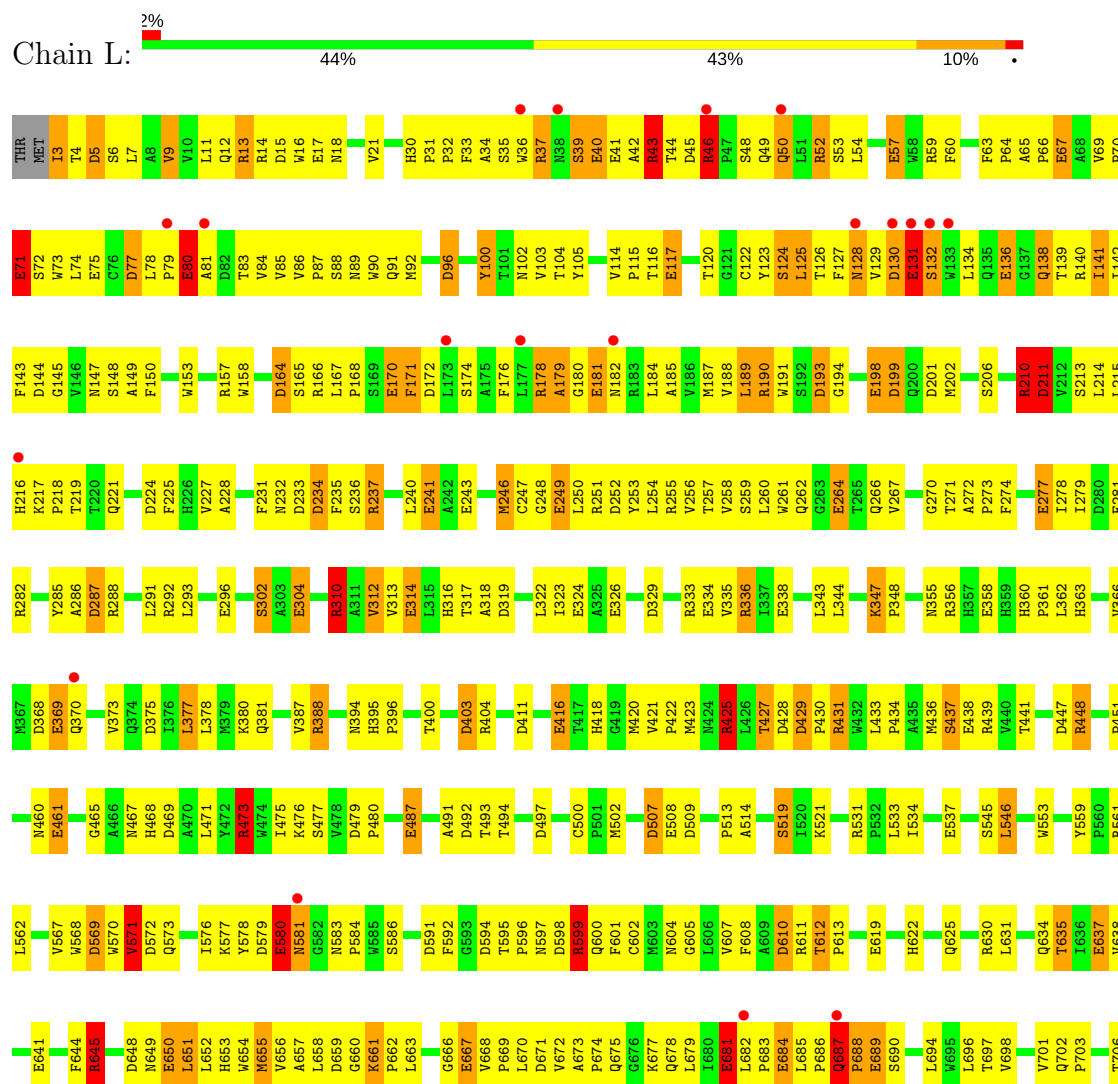
• Molecule 1: Beta-Galactosidase

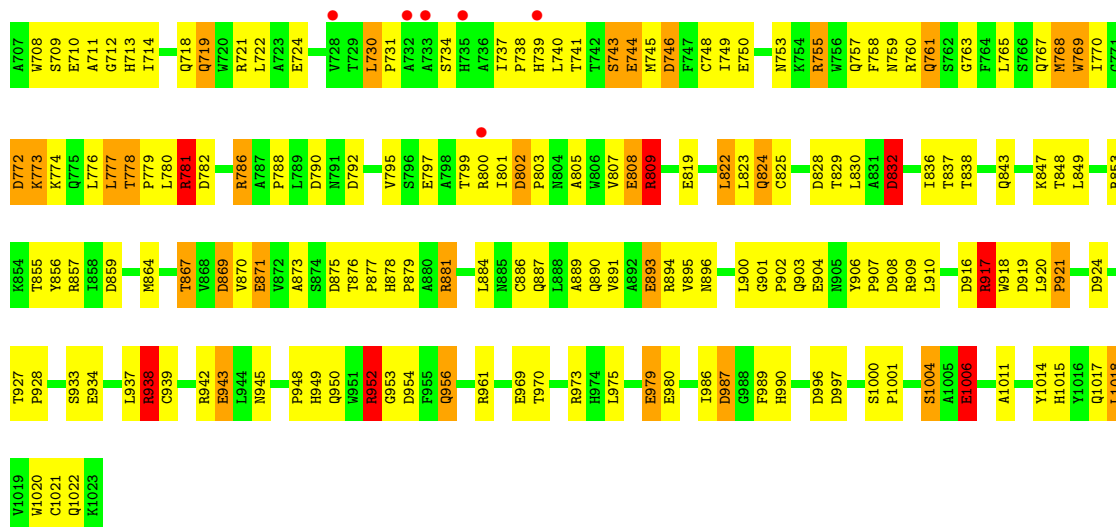




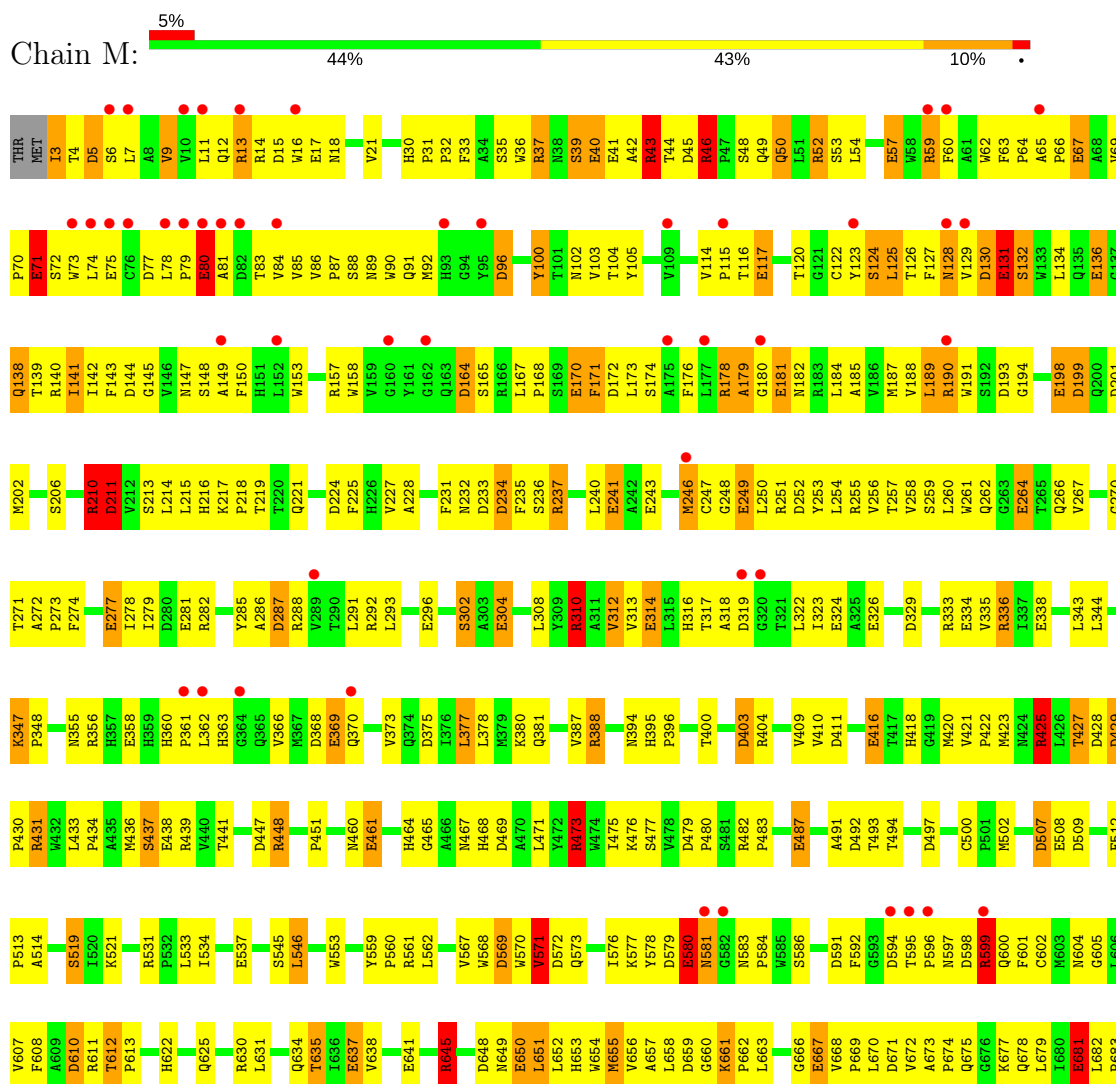


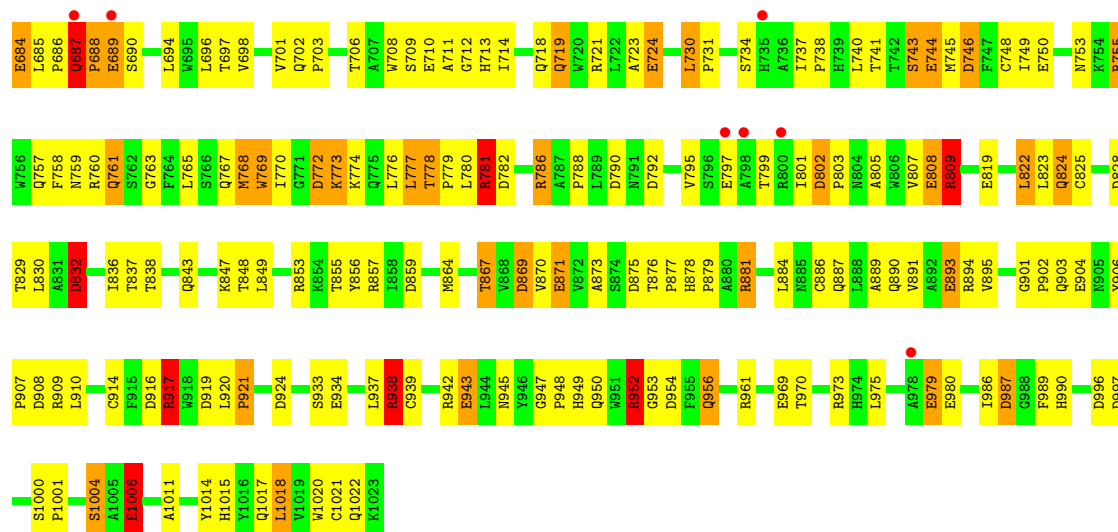
• Molecule 1: Beta-Galactosidase



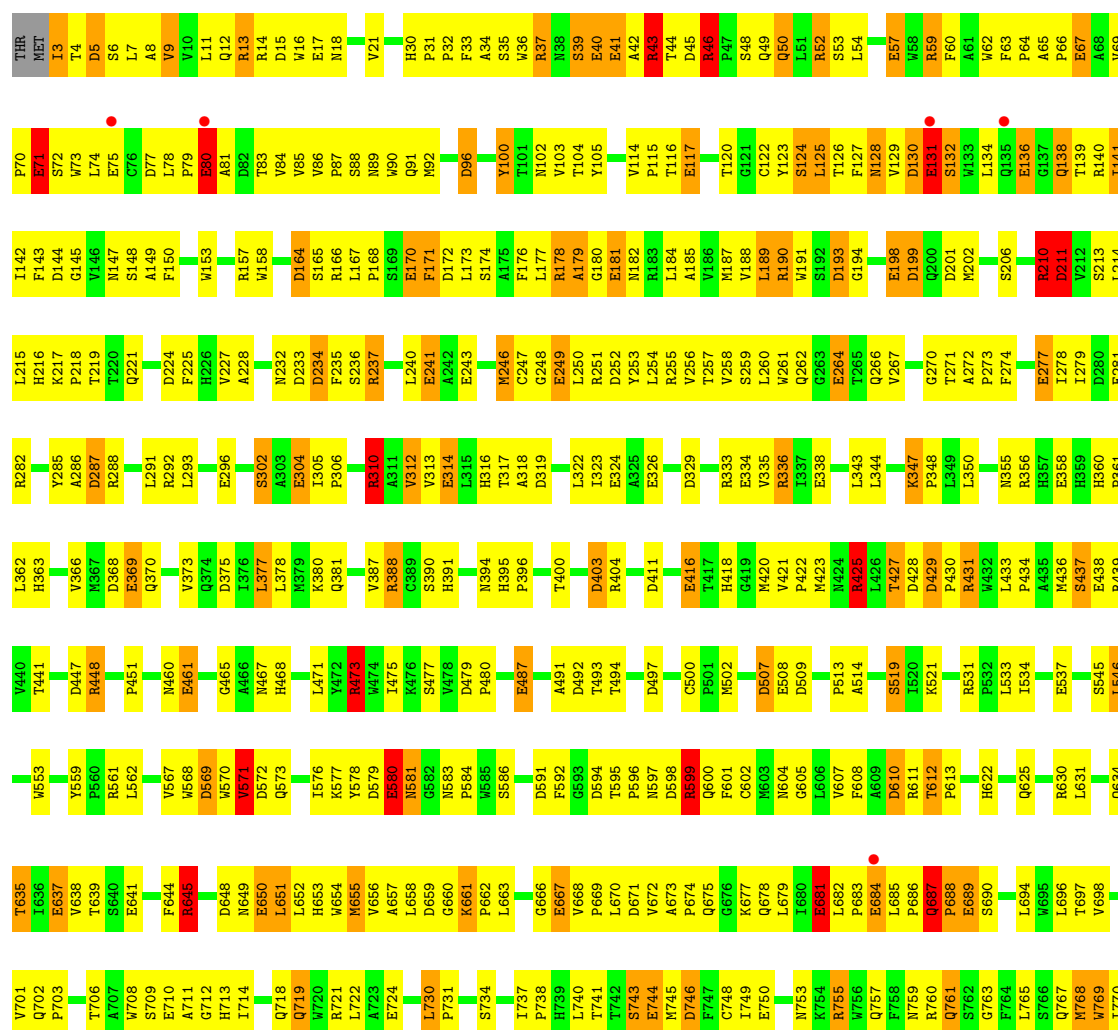
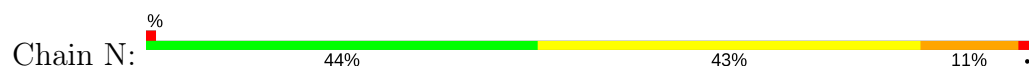


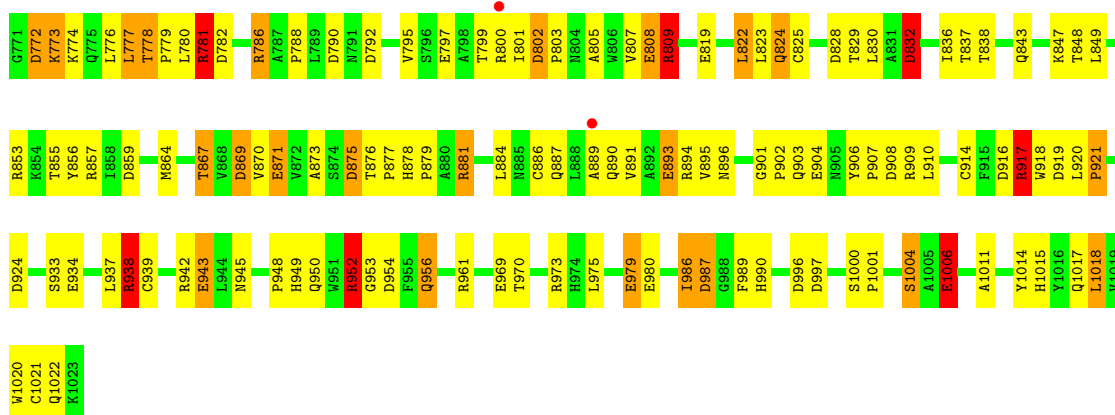
• Molecule 1: Beta-Galactosidase



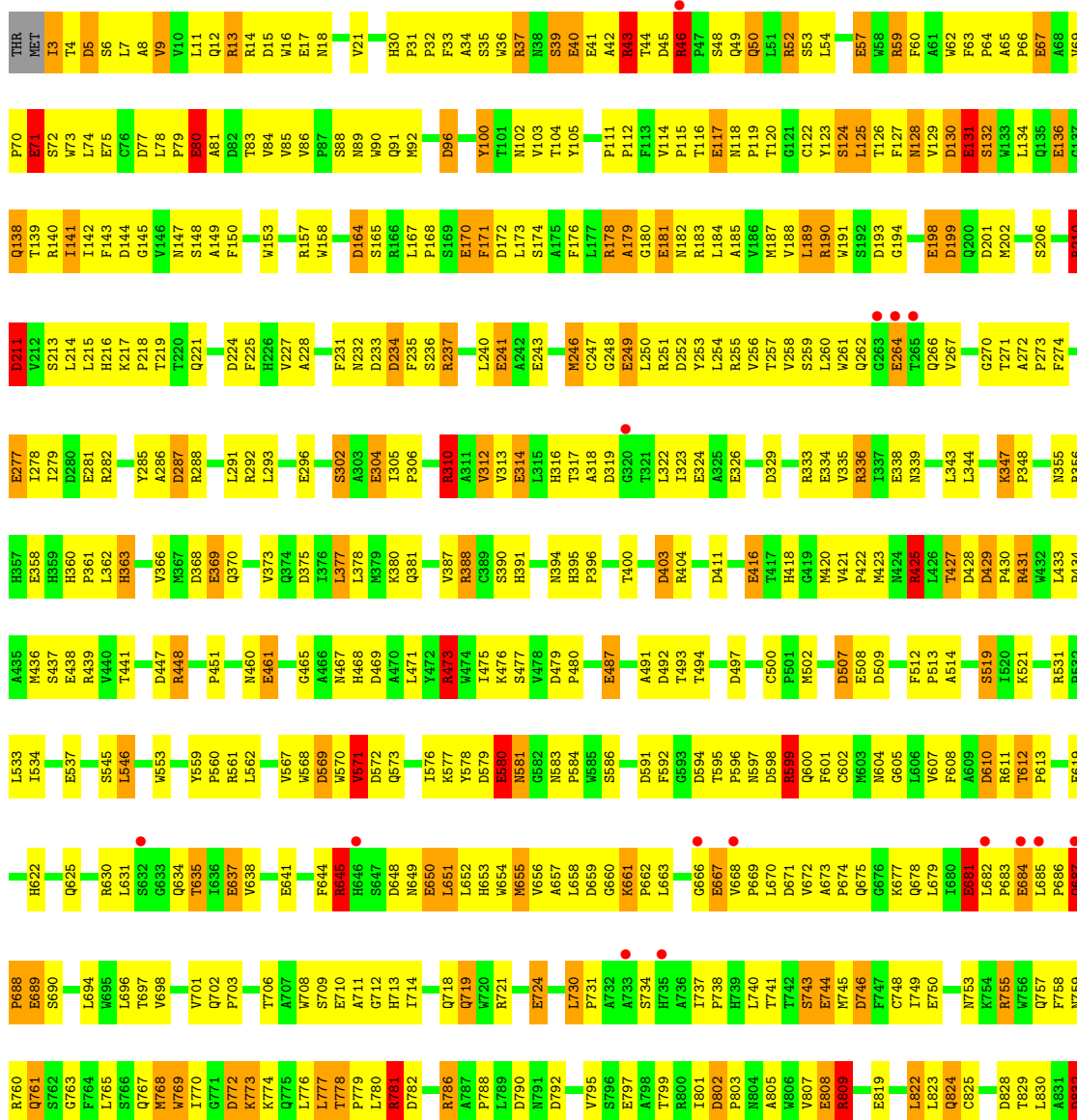
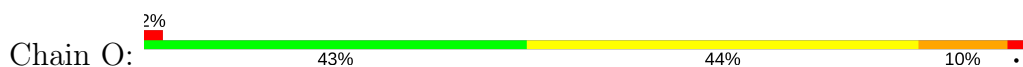


• Molecule 1: Beta-Galactosidase

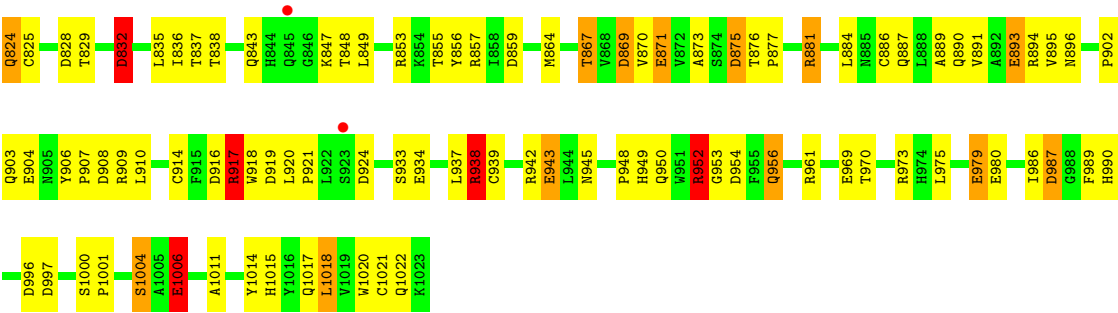




• Molecule 1: Beta-Galactosidase







4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	107.50Å 207.20Å 510.20Å 90.00° 95.00° 90.00°	Depositor
Resolution (Å)	68.50 – 2.60 68.52 – 2.50	Depositor EDS
% Data completeness (in resolution range)	70.0 (68.50-2.60) 66.9 (68.52-2.50)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.05 (at 2.51Å)	Xtriage
Refinement program	TNT V. 5-E	Depositor
R, R_{free}	0.230 , (Not available) 0.211 , 0.212	Depositor DCC
R_{free} test set	2191 reflections (0.46%)	DCC
Wilson B-factor (Å ²)	28.9	Xtriage
Anisotropy	0.082	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.25 , 81.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.010 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	133984	wwPDB-VP
Average B, all atoms (Å ²)	45.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.32% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: NA, CME, 2FG, MG

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	1.20	54/8439 (0.6%)	1.62	158/11510 (1.4%)
1	B	1.20	54/8439 (0.6%)	1.62	158/11510 (1.4%)
1	C	1.20	53/8439 (0.6%)	1.62	159/11510 (1.4%)
1	D	1.20	54/8439 (0.6%)	1.62	158/11510 (1.4%)
1	E	1.20	54/8439 (0.6%)	1.62	158/11510 (1.4%)
1	F	1.20	54/8439 (0.6%)	1.62	156/11510 (1.4%)
1	G	1.20	55/8439 (0.7%)	1.62	159/11510 (1.4%)
1	H	1.20	54/8439 (0.6%)	1.62	158/11510 (1.4%)
1	I	1.20	54/8439 (0.6%)	1.62	161/11510 (1.4%)
1	J	1.20	54/8439 (0.6%)	1.62	158/11510 (1.4%)
1	K	1.20	54/8439 (0.6%)	1.62	157/11510 (1.4%)
1	L	1.20	55/8439 (0.7%)	1.62	158/11510 (1.4%)
1	M	1.20	54/8439 (0.6%)	1.62	158/11510 (1.4%)
1	N	1.20	54/8439 (0.6%)	1.62	158/11510 (1.4%)
1	O	1.20	55/8439 (0.7%)	1.62	157/11510 (1.4%)
1	P	1.20	55/8439 (0.7%)	1.62	160/11510 (1.4%)
All	All	1.20	867/135024 (0.6%)	1.62	2531/184160 (1.4%)

All (867) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	131	GLU	CD-OE2	9.75	1.36	1.25
1	H	131	GLU	CD-OE2	9.74	1.36	1.25
1	C	131	GLU	CD-OE2	9.73	1.36	1.25
1	J	131	GLU	CD-OE2	9.70	1.36	1.25
1	O	131	GLU	CD-OE2	9.69	1.36	1.25
1	A	131	GLU	CD-OE2	9.68	1.36	1.25
1	B	131	GLU	CD-OE2	9.68	1.36	1.25
1	L	131	GLU	CD-OE2	9.68	1.36	1.25
1	N	131	GLU	CD-OE2	9.67	1.36	1.25
1	P	131	GLU	CD-OE2	9.67	1.36	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	131	GLU	CD-OE2	9.67	1.36	1.25
1	I	131	GLU	CD-OE2	9.66	1.36	1.25
1	G	131	GLU	CD-OE2	9.66	1.36	1.25
1	E	131	GLU	CD-OE2	9.65	1.36	1.25
1	F	131	GLU	CD-OE2	9.65	1.36	1.25
1	K	131	GLU	CD-OE2	9.65	1.36	1.25
1	E	710	GLU	CD-OE2	9.22	1.35	1.25
1	B	710	GLU	CD-OE2	9.21	1.35	1.25
1	I	281	GLU	CD-OE2	9.21	1.35	1.25
1	F	281	GLU	CD-OE2	9.20	1.35	1.25
1	M	710	GLU	CD-OE2	9.19	1.35	1.25
1	C	281	GLU	CD-OE2	9.19	1.35	1.25
1	L	281	GLU	CD-OE2	9.19	1.35	1.25
1	N	710	GLU	CD-OE2	9.19	1.35	1.25
1	G	710	GLU	CD-OE2	9.18	1.35	1.25
1	B	281	GLU	CD-OE2	9.18	1.35	1.25
1	F	710	GLU	CD-OE2	9.18	1.35	1.25
1	J	281	GLU	CD-OE2	9.18	1.35	1.25
1	D	710	GLU	CD-OE2	9.17	1.35	1.25
1	H	710	GLU	CD-OE2	9.17	1.35	1.25
1	P	710	GLU	CD-OE2	9.17	1.35	1.25
1	E	281	GLU	CD-OE2	9.16	1.35	1.25
1	K	710	GLU	CD-OE2	9.16	1.35	1.25
1	N	281	GLU	CD-OE2	9.16	1.35	1.25
1	M	281	GLU	CD-OE2	9.16	1.35	1.25
1	J	710	GLU	CD-OE2	9.16	1.35	1.25
1	H	281	GLU	CD-OE2	9.15	1.35	1.25
1	L	710	GLU	CD-OE2	9.15	1.35	1.25
1	D	281	GLU	CD-OE2	9.15	1.35	1.25
1	G	281	GLU	CD-OE2	9.15	1.35	1.25
1	I	710	GLU	CD-OE2	9.15	1.35	1.25
1	C	710	GLU	CD-OE2	9.14	1.35	1.25
1	O	710	GLU	CD-OE2	9.14	1.35	1.25
1	P	281	GLU	CD-OE2	9.14	1.35	1.25
1	O	281	GLU	CD-OE2	9.12	1.35	1.25
1	A	281	GLU	CD-OE2	9.10	1.35	1.25
1	A	710	GLU	CD-OE2	9.10	1.35	1.25
1	K	684	GLU	CD-OE2	9.09	1.35	1.25
1	K	281	GLU	CD-OE2	9.07	1.35	1.25
1	I	684	GLU	CD-OE2	9.06	1.35	1.25
1	E	684	GLU	CD-OE2	9.05	1.35	1.25
1	F	684	GLU	CD-OE2	9.04	1.35	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	684	GLU	CD-OE2	9.03	1.35	1.25
1	M	684	GLU	CD-OE2	9.03	1.35	1.25
1	A	684	GLU	CD-OE2	9.01	1.35	1.25
1	B	684	GLU	CD-OE2	9.00	1.35	1.25
1	P	684	GLU	CD-OE2	9.00	1.35	1.25
1	H	684	GLU	CD-OE2	8.99	1.35	1.25
1	G	684	GLU	CD-OE2	8.98	1.35	1.25
1	C	684	GLU	CD-OE2	8.98	1.35	1.25
1	L	684	GLU	CD-OE2	8.98	1.35	1.25
1	D	684	GLU	CD-OE2	8.96	1.35	1.25
1	N	684	GLU	CD-OE2	8.96	1.35	1.25
1	G	689	GLU	CD-OE2	8.96	1.35	1.25
1	O	689	GLU	CD-OE2	8.95	1.35	1.25
1	D	689	GLU	CD-OE2	8.95	1.35	1.25
1	B	689	GLU	CD-OE2	8.94	1.35	1.25
1	E	689	GLU	CD-OE2	8.93	1.35	1.25
1	P	689	GLU	CD-OE2	8.93	1.35	1.25
1	O	684	GLU	CD-OE2	8.91	1.35	1.25
1	A	689	GLU	CD-OE2	8.90	1.35	1.25
1	H	689	GLU	CD-OE2	8.90	1.35	1.25
1	I	689	GLU	CD-OE2	8.89	1.35	1.25
1	K	689	GLU	CD-OE2	8.88	1.35	1.25
1	F	689	GLU	CD-OE2	8.88	1.35	1.25
1	J	689	GLU	CD-OE2	8.87	1.35	1.25
1	N	689	GLU	CD-OE2	8.87	1.35	1.25
1	L	744	GLU	CD-OE2	8.87	1.35	1.25
1	C	689	GLU	CD-OE2	8.86	1.35	1.25
1	M	689	GLU	CD-OE2	8.86	1.35	1.25
1	C	744	GLU	CD-OE2	8.86	1.35	1.25
1	J	744	GLU	CD-OE2	8.86	1.35	1.25
1	L	689	GLU	CD-OE2	8.85	1.35	1.25
1	F	744	GLU	CD-OE2	8.83	1.35	1.25
1	D	744	GLU	CD-OE2	8.82	1.35	1.25
1	A	744	GLU	CD-OE2	8.82	1.35	1.25
1	G	744	GLU	CD-OE2	8.82	1.35	1.25
1	H	744	GLU	CD-OE2	8.82	1.35	1.25
1	B	744	GLU	CD-OE2	8.82	1.35	1.25
1	K	744	GLU	CD-OE2	8.81	1.35	1.25
1	I	744	GLU	CD-OE2	8.80	1.35	1.25
1	N	744	GLU	CD-OE2	8.78	1.35	1.25
1	P	819	GLU	CD-OE2	8.78	1.35	1.25
1	O	744	GLU	CD-OE2	8.78	1.35	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	744	GLU	CD-OE2	8.77	1.35	1.25
1	K	75	GLU	CD-OE2	8.77	1.35	1.25
1	I	75	GLU	CD-OE2	8.76	1.35	1.25
1	H	75	GLU	CD-OE2	8.76	1.35	1.25
1	O	819	GLU	CD-OE2	8.76	1.35	1.25
1	N	75	GLU	CD-OE2	8.74	1.35	1.25
1	C	75	GLU	CD-OE2	8.74	1.35	1.25
1	M	744	GLU	CD-OE2	8.74	1.35	1.25
1	E	744	GLU	CD-OE2	8.73	1.35	1.25
1	B	75	GLU	CD-OE2	8.73	1.35	1.25
1	E	75	GLU	CD-OE2	8.73	1.35	1.25
1	A	75	GLU	CD-OE2	8.72	1.35	1.25
1	H	819	GLU	CD-OE2	8.72	1.35	1.25
1	L	819	GLU	CD-OE2	8.72	1.35	1.25
1	P	75	GLU	CD-OE2	8.72	1.35	1.25
1	G	75	GLU	CD-OE2	8.71	1.35	1.25
1	O	75	GLU	CD-OE2	8.71	1.35	1.25
1	L	75	GLU	CD-OE2	8.71	1.35	1.25
1	I	819	GLU	CD-OE2	8.71	1.35	1.25
1	A	819	GLU	CD-OE2	8.70	1.35	1.25
1	M	75	GLU	CD-OE2	8.70	1.35	1.25
1	M	819	GLU	CD-OE2	8.70	1.35	1.25
1	C	819	GLU	CD-OE2	8.69	1.35	1.25
1	F	75	GLU	CD-OE2	8.70	1.35	1.25
1	B	461	GLU	CD-OE2	8.69	1.35	1.25
1	B	819	GLU	CD-OE2	8.69	1.35	1.25
1	E	819	GLU	CD-OE2	8.69	1.35	1.25
1	K	819	GLU	CD-OE2	8.69	1.35	1.25
1	G	461	GLU	CD-OE2	8.68	1.35	1.25
1	J	461	GLU	CD-OE2	8.68	1.35	1.25
1	D	75	GLU	CD-OE2	8.67	1.35	1.25
1	D	819	GLU	CD-OE2	8.67	1.35	1.25
1	D	461	GLU	CD-OE2	8.67	1.35	1.25
1	N	461	GLU	CD-OE2	8.67	1.35	1.25
1	P	461	GLU	CD-OE2	8.66	1.35	1.25
1	F	461	GLU	CD-OE2	8.66	1.35	1.25
1	J	75	GLU	CD-OE2	8.66	1.35	1.25
1	J	819	GLU	CD-OE2	8.66	1.35	1.25
1	C	461	GLU	CD-OE2	8.65	1.35	1.25
1	F	819	GLU	CD-OE2	8.65	1.35	1.25
1	G	819	GLU	CD-OE2	8.63	1.35	1.25
1	E	461	GLU	CD-OE2	8.62	1.35	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	461	GLU	CD-OE2	8.62	1.35	1.25
1	I	461	GLU	CD-OE2	8.61	1.35	1.25
1	L	461	GLU	CD-OE2	8.61	1.35	1.25
1	N	819	GLU	CD-OE2	8.61	1.35	1.25
1	H	461	GLU	CD-OE2	8.59	1.35	1.25
1	M	461	GLU	CD-OE2	8.59	1.35	1.25
1	I	580	GLU	CD-OE2	8.59	1.35	1.25
1	G	580	GLU	CD-OE2	8.57	1.35	1.25
1	K	461	GLU	CD-OE2	8.57	1.35	1.25
1	M	580	GLU	CD-OE2	8.57	1.35	1.25
1	O	461	GLU	CD-OE2	8.57	1.35	1.25
1	E	580	GLU	CD-OE2	8.56	1.35	1.25
1	M	181	GLU	CD-OE2	8.56	1.35	1.25
1	N	181	GLU	CD-OE2	8.55	1.35	1.25
1	F	580	GLU	CD-OE2	8.55	1.35	1.25
1	L	181	GLU	CD-OE2	8.55	1.35	1.25
1	O	580	GLU	CD-OE2	8.54	1.35	1.25
1	A	580	GLU	CD-OE2	8.54	1.35	1.25
1	D	580	GLU	CD-OE2	8.54	1.35	1.25
1	O	181	GLU	CD-OE2	8.53	1.35	1.25
1	C	580	GLU	CD-OE2	8.52	1.35	1.25
1	G	181	GLU	CD-OE2	8.52	1.35	1.25
1	I	181	GLU	CD-OE2	8.52	1.35	1.25
1	K	580	GLU	CD-OE2	8.52	1.35	1.25
1	P	181	GLU	CD-OE2	8.52	1.35	1.25
1	J	181	GLU	CD-OE2	8.51	1.35	1.25
1	N	580	GLU	CD-OE2	8.51	1.35	1.25
1	F	181	GLU	CD-OE2	8.51	1.35	1.25
1	B	580	GLU	CD-OE2	8.50	1.35	1.25
1	A	181	GLU	CD-OE2	8.50	1.34	1.25
1	D	181	GLU	CD-OE2	8.49	1.34	1.25
1	L	580	GLU	CD-OE2	8.49	1.34	1.25
1	P	580	GLU	CD-OE2	8.49	1.34	1.25
1	K	181	GLU	CD-OE2	8.48	1.34	1.25
1	J	580	GLU	CD-OE2	8.48	1.34	1.25
1	H	580	GLU	CD-OE2	8.48	1.34	1.25
1	B	181	GLU	CD-OE2	8.46	1.34	1.25
1	I	893	GLU	CD-OE2	8.46	1.34	1.25
1	H	181	GLU	CD-OE2	8.44	1.34	1.25
1	E	181	GLU	CD-OE2	8.44	1.34	1.25
1	F	893	GLU	CD-OE2	8.43	1.34	1.25
1	L	893	GLU	CD-OE2	8.43	1.34	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	893	GLU	CD-OE2	8.42	1.34	1.25
1	C	893	GLU	CD-OE2	8.42	1.34	1.25
1	C	181	GLU	CD-OE2	8.42	1.34	1.25
1	D	893	GLU	CD-OE2	8.41	1.34	1.25
1	G	893	GLU	CD-OE2	8.41	1.34	1.25
1	A	893	GLU	CD-OE2	8.40	1.34	1.25
1	B	893	GLU	CD-OE2	8.39	1.34	1.25
1	K	893	GLU	CD-OE2	8.38	1.34	1.25
1	H	893	GLU	CD-OE2	8.38	1.34	1.25
1	E	893	GLU	CD-OE2	8.38	1.34	1.25
1	M	893	GLU	CD-OE2	8.38	1.34	1.25
1	O	893	GLU	CD-OE2	8.36	1.34	1.25
1	P	893	GLU	CD-OE2	8.35	1.34	1.25
1	N	893	GLU	CD-OE2	8.34	1.34	1.25
1	D	980	GLU	CD-OE2	8.26	1.34	1.25
1	P	136	GLU	CD-OE2	8.23	1.34	1.25
1	J	980	GLU	CD-OE2	8.22	1.34	1.25
1	E	136	GLU	CD-OE2	8.22	1.34	1.25
1	C	980	GLU	CD-OE2	8.21	1.34	1.25
1	K	136	GLU	CD-OE2	8.21	1.34	1.25
1	I	136	GLU	CD-OE2	8.20	1.34	1.25
1	B	136	GLU	CD-OE2	8.19	1.34	1.25
1	E	980	GLU	CD-OE2	8.19	1.34	1.25
1	J	136	GLU	CD-OE2	8.19	1.34	1.25
1	A	980	GLU	CD-OE2	8.19	1.34	1.25
1	G	980	GLU	CD-OE2	8.18	1.34	1.25
1	K	980	GLU	CD-OE2	8.18	1.34	1.25
1	H	980	GLU	CD-OE2	8.18	1.34	1.25
1	I	980	GLU	CD-OE2	8.18	1.34	1.25
1	P	980	GLU	CD-OE2	8.18	1.34	1.25
1	N	136	GLU	CD-OE2	8.18	1.34	1.25
1	A	136	GLU	CD-OE2	8.17	1.34	1.25
1	M	136	GLU	CD-OE2	8.17	1.34	1.25
1	O	980	GLU	CD-OE2	8.17	1.34	1.25
1	M	980	GLU	CD-OE2	8.17	1.34	1.25
1	F	136	GLU	CD-OE2	8.17	1.34	1.25
1	L	980	GLU	CD-OE2	8.17	1.34	1.25
1	G	136	GLU	CD-OE2	8.16	1.34	1.25
1	N	980	GLU	CD-OE2	8.16	1.34	1.25
1	D	136	GLU	CD-OE2	8.15	1.34	1.25
1	F	980	GLU	CD-OE2	8.14	1.34	1.25
1	H	136	GLU	CD-OE2	8.14	1.34	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	136	GLU	CD-OE2	8.13	1.34	1.25
1	O	136	GLU	CD-OE2	8.12	1.34	1.25
1	B	980	GLU	CD-OE2	8.12	1.34	1.25
1	L	136	GLU	CD-OE2	8.10	1.34	1.25
1	C	277	GLU	CD-OE2	8.00	1.34	1.25
1	P	277	GLU	CD-OE2	7.98	1.34	1.25
1	O	277	GLU	CD-OE2	7.97	1.34	1.25
1	A	277	GLU	CD-OE2	7.97	1.34	1.25
1	D	277	GLU	CD-OE2	7.96	1.34	1.25
1	E	277	GLU	CD-OE2	7.95	1.34	1.25
1	F	277	GLU	CD-OE2	7.95	1.34	1.25
1	M	277	GLU	CD-OE2	7.95	1.34	1.25
1	B	277	GLU	CD-OE2	7.95	1.34	1.25
1	J	277	GLU	CD-OE2	7.94	1.34	1.25
1	H	277	GLU	CD-OE2	7.94	1.34	1.25
1	L	277	GLU	CD-OE2	7.94	1.34	1.25
1	N	277	GLU	CD-OE2	7.93	1.34	1.25
1	I	277	GLU	CD-OE2	7.92	1.34	1.25
1	G	277	GLU	CD-OE2	7.92	1.34	1.25
1	K	277	GLU	CD-OE2	7.88	1.34	1.25
1	P	264	GLU	CD-OE2	7.51	1.33	1.25
1	C	264	GLU	CD-OE2	7.50	1.33	1.25
1	F	264	GLU	CD-OE2	7.49	1.33	1.25
1	L	264	GLU	CD-OE2	7.47	1.33	1.25
1	G	264	GLU	CD-OE2	7.45	1.33	1.25
1	D	264	GLU	CD-OE2	7.45	1.33	1.25
1	N	264	GLU	CD-OE2	7.45	1.33	1.25
1	H	264	GLU	CD-OE2	7.44	1.33	1.25
1	K	264	GLU	CD-OE2	7.42	1.33	1.25
1	E	264	GLU	CD-OE2	7.41	1.33	1.25
1	J	264	GLU	CD-OE2	7.40	1.33	1.25
1	A	264	GLU	CD-OE2	7.40	1.33	1.25
1	B	264	GLU	CD-OE2	7.40	1.33	1.25
1	O	264	GLU	CD-OE2	7.40	1.33	1.25
1	M	264	GLU	CD-OE2	7.40	1.33	1.25
1	I	264	GLU	CD-OE2	7.39	1.33	1.25
1	I	681	GLU	CD-OE2	7.29	1.33	1.25
1	D	681	GLU	CD-OE2	7.29	1.33	1.25
1	G	681	GLU	CD-OE2	7.27	1.33	1.25
1	C	681	GLU	CD-OE2	7.24	1.33	1.25
1	F	681	GLU	CD-OE2	7.24	1.33	1.25
1	M	681	GLU	CD-OE2	7.24	1.33	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	681	GLU	CD-OE2	7.24	1.33	1.25
1	K	681	GLU	CD-OE2	7.24	1.33	1.25
1	J	681	GLU	CD-OE2	7.23	1.33	1.25
1	A	681	GLU	CD-OE2	7.23	1.33	1.25
1	N	681	GLU	CD-OE2	7.23	1.33	1.25
1	H	681	GLU	CD-OE2	7.23	1.33	1.25
1	E	681	GLU	CD-OE2	7.23	1.33	1.25
1	L	681	GLU	CD-OE2	7.22	1.33	1.25
1	O	296	GLU	CD-OE2	7.22	1.33	1.25
1	I	296	GLU	CD-OE2	7.21	1.33	1.25
1	N	296	GLU	CD-OE2	7.20	1.33	1.25
1	J	296	GLU	CD-OE2	7.20	1.33	1.25
1	K	296	GLU	CD-OE2	7.20	1.33	1.25
1	B	296	GLU	CD-OE2	7.19	1.33	1.25
1	A	296	GLU	CD-OE2	7.19	1.33	1.25
1	G	296	GLU	CD-OE2	7.18	1.33	1.25
1	M	296	GLU	CD-OE2	7.18	1.33	1.25
1	C	296	GLU	CD-OE2	7.18	1.33	1.25
1	P	296	GLU	CD-OE2	7.17	1.33	1.25
1	L	296	GLU	CD-OE2	7.17	1.33	1.25
1	B	681	GLU	CD-OE2	7.17	1.33	1.25
1	D	296	GLU	CD-OE2	7.16	1.33	1.25
1	H	296	GLU	CD-OE2	7.16	1.33	1.25
1	E	296	GLU	CD-OE2	7.13	1.33	1.25
1	P	681	GLU	CD-OE2	7.13	1.33	1.25
1	F	296	GLU	CD-OE2	7.11	1.33	1.25
1	I	57	GLU	CD-OE2	7.07	1.33	1.25
1	J	508	GLU	CD-OE2	7.07	1.33	1.25
1	M	508	GLU	CD-OE2	7.07	1.33	1.25
1	K	508	GLU	CD-OE2	7.06	1.33	1.25
1	N	57	GLU	CD-OE2	7.06	1.33	1.25
1	L	57	GLU	CD-OE2	7.06	1.33	1.25
1	I	508	GLU	CD-OE2	7.04	1.33	1.25
1	H	508	GLU	CD-OE2	7.03	1.33	1.25
1	A	508	GLU	CD-OE2	7.03	1.33	1.25
1	M	57	GLU	CD-OE2	7.03	1.33	1.25
1	N	508	GLU	CD-OE2	7.03	1.33	1.25
1	A	57	GLU	CD-OE2	7.03	1.33	1.25
1	K	57	GLU	CD-OE2	7.03	1.33	1.25
1	P	508	GLU	CD-OE2	7.03	1.33	1.25
1	F	57	GLU	CD-OE2	7.02	1.33	1.25
1	G	508	GLU	CD-OE2	7.02	1.33	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	508	GLU	CD-OE2	7.02	1.33	1.25
1	P	57	GLU	CD-OE2	7.01	1.33	1.25
1	E	508	GLU	CD-OE2	7.01	1.33	1.25
1	D	57	GLU	CD-OE2	7.00	1.33	1.25
1	D	508	GLU	CD-OE2	7.00	1.33	1.25
1	J	57	GLU	CD-OE2	7.00	1.33	1.25
1	E	57	GLU	CD-OE2	7.00	1.33	1.25
1	L	508	GLU	CD-OE2	6.99	1.33	1.25
1	H	57	GLU	CD-OE2	6.99	1.33	1.25
1	O	57	GLU	CD-OE2	6.98	1.33	1.25
1	G	57	GLU	CD-OE2	6.98	1.33	1.25
1	B	117	GLU	CD-OE2	6.97	1.33	1.25
1	O	508	GLU	CD-OE2	6.97	1.33	1.25
1	B	57	GLU	CD-OE2	6.97	1.33	1.25
1	C	508	GLU	CD-OE2	6.97	1.33	1.25
1	B	508	GLU	CD-OE2	6.95	1.33	1.25
1	C	57	GLU	CD-OE2	6.94	1.33	1.25
1	E	117	GLU	CD-OE2	6.93	1.33	1.25
1	A	117	GLU	CD-OE2	6.92	1.33	1.25
1	M	117	GLU	CD-OE2	6.92	1.33	1.25
1	C	117	GLU	CD-OE2	6.92	1.33	1.25
1	D	117	GLU	CD-OE2	6.91	1.33	1.25
1	P	117	GLU	CD-OE2	6.91	1.33	1.25
1	F	117	GLU	CD-OE2	6.90	1.33	1.25
1	H	117	GLU	CD-OE2	6.90	1.33	1.25
1	N	80	GLU	CD-OE2	6.89	1.33	1.25
1	K	117	GLU	CD-OE2	6.89	1.33	1.25
1	L	117	GLU	CD-OE2	6.88	1.33	1.25
1	K	80	GLU	CD-OE2	6.87	1.33	1.25
1	N	117	GLU	CD-OE2	6.87	1.33	1.25
1	G	117	GLU	CD-OE2	6.86	1.33	1.25
1	J	117	GLU	CD-OE2	6.86	1.33	1.25
1	D	487	GLU	CD-OE2	6.86	1.33	1.25
1	O	117	GLU	CD-OE2	6.85	1.33	1.25
1	M	80	GLU	CD-OE2	6.85	1.33	1.25
1	I	117	GLU	CD-OE2	6.84	1.33	1.25
1	O	80	GLU	CD-OE2	6.84	1.33	1.25
1	I	80	GLU	CD-OE2	6.84	1.33	1.25
1	C	80	GLU	CD-OE2	6.83	1.33	1.25
1	A	80	GLU	CD-OE2	6.83	1.33	1.25
1	C	487	GLU	CD-OE2	6.83	1.33	1.25
1	J	80	GLU	CD-OE2	6.83	1.33	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	80	GLU	CD-OE2	6.83	1.33	1.25
1	F	80	GLU	CD-OE2	6.83	1.33	1.25
1	H	80	GLU	CD-OE2	6.82	1.33	1.25
1	O	487	GLU	CD-OE2	6.82	1.33	1.25
1	D	667	GLU	CD-OE2	6.81	1.33	1.25
1	G	487	GLU	CD-OE2	6.81	1.33	1.25
1	K	487	GLU	CD-OE2	6.80	1.33	1.25
1	B	487	GLU	CD-OE2	6.80	1.33	1.25
1	E	80	GLU	CD-OE2	6.80	1.33	1.25
1	A	487	GLU	CD-OE2	6.79	1.33	1.25
1	B	80	GLU	CD-OE2	6.79	1.33	1.25
1	L	80	GLU	CD-OE2	6.79	1.33	1.25
1	P	80	GLU	CD-OE2	6.78	1.33	1.25
1	D	80	GLU	CD-OE2	6.78	1.33	1.25
1	L	667	GLU	CD-OE2	6.78	1.33	1.25
1	G	334	GLU	CD-OE2	6.77	1.33	1.25
1	J	667	GLU	CD-OE2	6.77	1.33	1.25
1	P	487	GLU	CD-OE2	6.77	1.33	1.25
1	A	334	GLU	CD-OE2	6.77	1.33	1.25
1	A	667	GLU	CD-OE2	6.77	1.33	1.25
1	F	667	GLU	CD-OE2	6.77	1.33	1.25
1	E	487	GLU	CD-OE2	6.76	1.33	1.25
1	B	667	GLU	CD-OE2	6.76	1.33	1.25
1	E	667	GLU	CD-OE2	6.76	1.33	1.25
1	G	667	GLU	CD-OE2	6.76	1.33	1.25
1	L	334	GLU	CD-OE2	6.76	1.33	1.25
1	C	334	GLU	CD-OE2	6.76	1.33	1.25
1	H	487	GLU	CD-OE2	6.76	1.33	1.25
1	J	334	GLU	CD-OE2	6.76	1.33	1.25
1	D	334	GLU	CD-OE2	6.75	1.33	1.25
1	I	334	GLU	CD-OE2	6.75	1.33	1.25
1	I	667	GLU	CD-OE2	6.75	1.33	1.25
1	O	334	GLU	CD-OE2	6.75	1.33	1.25
1	J	487	GLU	CD-OE2	6.75	1.33	1.25
1	M	487	GLU	CD-OE2	6.75	1.33	1.25
1	H	667	GLU	CD-OE2	6.75	1.33	1.25
1	C	667	GLU	CD-OE2	6.74	1.33	1.25
1	B	334	GLU	CD-OE2	6.74	1.33	1.25
1	P	667	GLU	CD-OE2	6.74	1.33	1.25
1	N	334	GLU	CD-OE2	6.74	1.33	1.25
1	F	487	GLU	CD-OE2	6.74	1.33	1.25
1	K	334	GLU	CD-OE2	6.74	1.33	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	334	GLU	CD-OE2	6.73	1.33	1.25
1	F	334	GLU	CD-OE2	6.73	1.33	1.25
1	N	487	GLU	CD-OE2	6.73	1.33	1.25
1	M	667	GLU	CD-OE2	6.73	1.33	1.25
1	K	667	GLU	CD-OE2	6.72	1.33	1.25
1	N	667	GLU	CD-OE2	6.72	1.33	1.25
1	I	487	GLU	CD-OE2	6.72	1.33	1.25
1	O	667	GLU	CD-OE2	6.72	1.33	1.25
1	M	334	GLU	CD-OE2	6.71	1.33	1.25
1	E	334	GLU	CD-OE2	6.70	1.33	1.25
1	L	487	GLU	CD-OE2	6.70	1.33	1.25
1	P	334	GLU	CD-OE2	6.70	1.33	1.25
1	E	969	GLU	CD-OE2	6.65	1.32	1.25
1	H	969	GLU	CD-OE2	6.63	1.32	1.25
1	E	198	GLU	CD-OE2	6.62	1.32	1.25
1	K	969	GLU	CD-OE2	6.62	1.32	1.25
1	O	969	GLU	CD-OE2	6.60	1.32	1.25
1	C	969	GLU	CD-OE2	6.60	1.32	1.25
1	D	969	GLU	CD-OE2	6.60	1.32	1.25
1	H	650	GLU	CD-OE2	6.59	1.32	1.25
1	B	969	GLU	CD-OE2	6.59	1.32	1.25
1	H	241	GLU	CD-OE2	6.59	1.32	1.25
1	O	198	GLU	CD-OE2	6.59	1.32	1.25
1	D	198	GLU	CD-OE2	6.59	1.32	1.25
1	M	241	GLU	CD-OE2	6.59	1.32	1.25
1	F	969	GLU	CD-OE2	6.58	1.32	1.25
1	A	650	GLU	CD-OE2	6.58	1.32	1.25
1	P	969	GLU	CD-OE2	6.58	1.32	1.25
1	N	969	GLU	CD-OE2	6.58	1.32	1.25
1	P	797	GLU	CD-OE2	6.58	1.32	1.25
1	L	797	GLU	CD-OE2	6.58	1.32	1.25
1	I	650	GLU	CD-OE2	6.57	1.32	1.25
1	M	969	GLU	CD-OE2	6.57	1.32	1.25
1	N	650	GLU	CD-OE2	6.57	1.32	1.25
1	I	969	GLU	CD-OE2	6.57	1.32	1.25
1	J	969	GLU	CD-OE2	6.57	1.32	1.25
1	L	969	GLU	CD-OE2	6.57	1.32	1.25
1	F	198	GLU	CD-OE2	6.56	1.32	1.25
1	A	198	GLU	CD-OE2	6.56	1.32	1.25
1	D	650	GLU	CD-OE2	6.55	1.32	1.25
1	J	198	GLU	CD-OE2	6.55	1.32	1.25
1	L	198	GLU	CD-OE2	6.55	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	241	GLU	CD-OE2	6.54	1.32	1.25
1	B	198	GLU	CD-OE2	6.54	1.32	1.25
1	E	241	GLU	CD-OE2	6.54	1.32	1.25
1	G	797	GLU	CD-OE2	6.54	1.32	1.25
1	I	241	GLU	CD-OE2	6.54	1.32	1.25
1	K	650	GLU	CD-OE2	6.54	1.32	1.25
1	E	650	GLU	CD-OE2	6.53	1.32	1.25
1	O	650	GLU	CD-OE2	6.53	1.32	1.25
1	A	241	GLU	CD-OE2	6.53	1.32	1.25
1	A	969	GLU	CD-OE2	6.53	1.32	1.25
1	L	241	GLU	CD-OE2	6.53	1.32	1.25
1	O	797	GLU	CD-OE2	6.53	1.32	1.25
1	M	198	GLU	CD-OE2	6.53	1.32	1.25
1	G	969	GLU	CD-OE2	6.52	1.32	1.25
1	N	198	GLU	CD-OE2	6.52	1.32	1.25
1	E	797	GLU	CD-OE2	6.52	1.32	1.25
1	C	650	GLU	CD-OE2	6.52	1.32	1.25
1	K	198	GLU	CD-OE2	6.52	1.32	1.25
1	D	241	GLU	CD-OE2	6.51	1.32	1.25
1	J	241	GLU	CD-OE2	6.51	1.32	1.25
1	J	650	GLU	CD-OE2	6.51	1.32	1.25
1	J	797	GLU	CD-OE2	6.51	1.32	1.25
1	P	198	GLU	CD-OE2	6.51	1.32	1.25
1	C	797	GLU	CD-OE2	6.51	1.32	1.25
1	L	650	GLU	CD-OE2	6.51	1.32	1.25
1	B	241	GLU	CD-OE2	6.51	1.32	1.25
1	B	797	GLU	CD-OE2	6.50	1.32	1.25
1	M	797	GLU	CD-OE2	6.50	1.32	1.25
1	A	797	GLU	CD-OE2	6.50	1.32	1.25
1	G	650	GLU	CD-OE2	6.50	1.32	1.25
1	B	650	GLU	CD-OE2	6.50	1.32	1.25
1	M	650	GLU	CD-OE2	6.50	1.32	1.25
1	G	198	GLU	CD-OE2	6.50	1.32	1.25
1	P	650	GLU	CD-OE2	6.50	1.32	1.25
1	C	241	GLU	CD-OE2	6.49	1.32	1.25
1	I	198	GLU	CD-OE2	6.49	1.32	1.25
1	N	797	GLU	CD-OE2	6.49	1.32	1.25
1	C	198	GLU	CD-OE2	6.49	1.32	1.25
1	G	241	GLU	CD-OE2	6.49	1.32	1.25
1	P	241	GLU	CD-OE2	6.49	1.32	1.25
1	O	241	GLU	CD-OE2	6.49	1.32	1.25
1	K	797	GLU	CD-OE2	6.48	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	797	GLU	CD-OE2	6.47	1.32	1.25
1	K	241	GLU	CD-OE2	6.47	1.32	1.25
1	F	650	GLU	CD-OE2	6.47	1.32	1.25
1	H	198	GLU	CD-OE2	6.47	1.32	1.25
1	D	797	GLU	CD-OE2	6.47	1.32	1.25
1	N	241	GLU	CD-OE2	6.46	1.32	1.25
1	I	797	GLU	CD-OE2	6.46	1.32	1.25
1	F	797	GLU	CD-OE2	6.45	1.32	1.25
1	K	369	GLU	CD-OE2	6.43	1.32	1.25
1	F	369	GLU	CD-OE2	6.42	1.32	1.25
1	G	369	GLU	CD-OE2	6.41	1.32	1.25
1	N	369	GLU	CD-OE2	6.41	1.32	1.25
1	H	369	GLU	CD-OE2	6.40	1.32	1.25
1	M	369	GLU	CD-OE2	6.38	1.32	1.25
1	A	369	GLU	CD-OE2	6.37	1.32	1.25
1	J	369	GLU	CD-OE2	6.36	1.32	1.25
1	L	369	GLU	CD-OE2	6.36	1.32	1.25
1	B	369	GLU	CD-OE2	6.35	1.32	1.25
1	C	40	GLU	CD-OE2	6.34	1.32	1.25
1	O	369	GLU	CD-OE2	6.34	1.32	1.25
1	P	369	GLU	CD-OE2	6.34	1.32	1.25
1	C	369	GLU	CD-OE2	6.34	1.32	1.25
1	M	40	GLU	CD-OE2	6.34	1.32	1.25
1	L	304	GLU	CD-OE2	6.33	1.32	1.25
1	I	369	GLU	CD-OE2	6.32	1.32	1.25
1	N	40	GLU	CD-OE2	6.32	1.32	1.25
1	A	40	GLU	CD-OE2	6.32	1.32	1.25
1	D	304	GLU	CD-OE2	6.31	1.32	1.25
1	I	40	GLU	CD-OE2	6.31	1.32	1.25
1	A	304	GLU	CD-OE2	6.31	1.32	1.25
1	E	369	GLU	CD-OE2	6.31	1.32	1.25
1	F	40	GLU	CD-OE2	6.31	1.32	1.25
1	G	304	GLU	CD-OE2	6.31	1.32	1.25
1	E	304	GLU	CD-OE2	6.30	1.32	1.25
1	O	40	GLU	CD-OE2	6.30	1.32	1.25
1	D	369	GLU	CD-OE2	6.30	1.32	1.25
1	C	304	GLU	CD-OE2	6.30	1.32	1.25
1	N	304	GLU	CD-OE2	6.30	1.32	1.25
1	E	40	GLU	CD-OE2	6.30	1.32	1.25
1	J	304	GLU	CD-OE2	6.30	1.32	1.25
1	L	40	GLU	CD-OE2	6.30	1.32	1.25
1	P	304	GLU	CD-OE2	6.30	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	304	GLU	CD-OE2	6.29	1.32	1.25
1	B	314	GLU	CD-OE2	6.29	1.32	1.25
1	H	304	GLU	CD-OE2	6.29	1.32	1.25
1	E	314	GLU	CD-OE2	6.29	1.32	1.25
1	G	40	GLU	CD-OE2	6.29	1.32	1.25
1	B	40	GLU	CD-OE2	6.29	1.32	1.25
1	P	40	GLU	CD-OE2	6.28	1.32	1.25
1	E	637	GLU	CD-OE2	6.28	1.32	1.25
1	K	314	GLU	CD-OE2	6.28	1.32	1.25
1	B	304	GLU	CD-OE2	6.28	1.32	1.25
1	I	304	GLU	CD-OE2	6.27	1.32	1.25
1	F	304	GLU	CD-OE2	6.27	1.32	1.25
1	K	40	GLU	CD-OE2	6.27	1.32	1.25
1	M	943	GLU	CD-OE2	6.27	1.32	1.25
1	J	40	GLU	CD-OE2	6.26	1.32	1.25
1	D	314	GLU	CD-OE2	6.26	1.32	1.25
1	O	304	GLU	CD-OE2	6.26	1.32	1.25
1	B	637	GLU	CD-OE2	6.25	1.32	1.25
1	H	40	GLU	CD-OE2	6.25	1.32	1.25
1	F	943	GLU	CD-OE2	6.25	1.32	1.25
1	C	637	GLU	CD-OE2	6.24	1.32	1.25
1	C	314	GLU	CD-OE2	6.24	1.32	1.25
1	G	314	GLU	CD-OE2	6.24	1.32	1.25
1	M	637	GLU	CD-OE2	6.24	1.32	1.25
1	P	637	GLU	CD-OE2	6.24	1.32	1.25
1	D	40	GLU	CD-OE2	6.23	1.32	1.25
1	D	637	GLU	CD-OE2	6.23	1.32	1.25
1	N	637	GLU	CD-OE2	6.23	1.32	1.25
1	L	637	GLU	CD-OE2	6.23	1.32	1.25
1	H	314	GLU	CD-OE2	6.22	1.32	1.25
1	J	943	GLU	CD-OE2	6.22	1.32	1.25
1	K	637	GLU	CD-OE2	6.22	1.32	1.25
1	O	637	GLU	CD-OE2	6.22	1.32	1.25
1	H	943	GLU	CD-OE2	6.22	1.32	1.25
1	N	314	GLU	CD-OE2	6.22	1.32	1.25
1	K	304	GLU	CD-OE2	6.22	1.32	1.25
1	K	943	GLU	CD-OE2	6.22	1.32	1.25
1	O	338	GLU	CD-OE2	6.22	1.32	1.25
1	M	314	GLU	CD-OE2	6.21	1.32	1.25
1	A	943	GLU	CD-OE2	6.21	1.32	1.25
1	O	314	GLU	CD-OE2	6.21	1.32	1.25
1	P	314	GLU	CD-OE2	6.21	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	338	GLU	CD-OE2	6.21	1.32	1.25
1	F	314	GLU	CD-OE2	6.20	1.32	1.25
1	F	637	GLU	CD-OE2	6.20	1.32	1.25
1	G	637	GLU	CD-OE2	6.19	1.32	1.25
1	I	637	GLU	CD-OE2	6.19	1.32	1.25
1	N	943	GLU	CD-OE2	6.19	1.32	1.25
1	C	943	GLU	CD-OE2	6.19	1.32	1.25
1	L	314	GLU	CD-OE2	6.19	1.32	1.25
1	C	358	GLU	CD-OE2	6.18	1.32	1.25
1	L	943	GLU	CD-OE2	6.18	1.32	1.25
1	J	338	GLU	CD-OE2	6.18	1.32	1.25
1	E	943	GLU	CD-OE2	6.18	1.32	1.25
1	P	943	GLU	CD-OE2	6.18	1.32	1.25
1	I	943	GLU	CD-OE2	6.18	1.32	1.25
1	J	314	GLU	CD-OE2	6.18	1.32	1.25
1	J	637	GLU	CD-OE2	6.18	1.32	1.25
1	D	943	GLU	CD-OE2	6.17	1.32	1.25
1	H	637	GLU	CD-OE2	6.17	1.32	1.25
1	A	637	GLU	CD-OE2	6.17	1.32	1.25
1	I	314	GLU	CD-OE2	6.17	1.32	1.25
1	G	943	GLU	CD-OE2	6.16	1.32	1.25
1	O	943	GLU	CD-OE2	6.16	1.32	1.25
1	A	338	GLU	CD-OE2	6.16	1.32	1.25
1	M	338	GLU	CD-OE2	6.16	1.32	1.25
1	G	358	GLU	CD-OE2	6.16	1.32	1.25
1	D	358	GLU	CD-OE2	6.16	1.32	1.25
1	H	338	GLU	CD-OE2	6.15	1.32	1.25
1	E	338	GLU	CD-OE2	6.15	1.32	1.25
1	D	338	GLU	CD-OE2	6.15	1.32	1.25
1	O	358	GLU	CD-OE2	6.15	1.32	1.25
1	B	943	GLU	CD-OE2	6.14	1.32	1.25
1	I	338	GLU	CD-OE2	6.13	1.32	1.25
1	J	170	GLU	CD-OE2	6.13	1.32	1.25
1	F	338	GLU	CD-OE2	6.13	1.32	1.25
1	I	358	GLU	CD-OE2	6.13	1.32	1.25
1	L	338	GLU	CD-OE2	6.13	1.32	1.25
1	C	338	GLU	CD-OE2	6.13	1.32	1.25
1	A	358	GLU	CD-OE2	6.12	1.32	1.25
1	H	358	GLU	CD-OE2	6.12	1.32	1.25
1	N	358	GLU	CD-OE2	6.12	1.32	1.25
1	P	338	GLU	CD-OE2	6.12	1.32	1.25
1	B	358	GLU	CD-OE2	6.11	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	358	GLU	CD-OE2	6.11	1.32	1.25
1	K	338	GLU	CD-OE2	6.11	1.32	1.25
1	N	338	GLU	CD-OE2	6.11	1.32	1.25
1	G	338	GLU	CD-OE2	6.11	1.32	1.25
1	P	170	GLU	CD-OE2	6.11	1.32	1.25
1	M	358	GLU	CD-OE2	6.11	1.32	1.25
1	J	358	GLU	CD-OE2	6.11	1.32	1.25
1	A	314	GLU	CD-OE2	6.10	1.32	1.25
1	K	358	GLU	CD-OE2	6.10	1.32	1.25
1	E	358	GLU	CD-OE2	6.10	1.32	1.25
1	L	170	GLU	CD-OE2	6.10	1.32	1.25
1	E	170	GLU	CD-OE2	6.09	1.32	1.25
1	P	358	GLU	CD-OE2	6.09	1.32	1.25
1	H	170	GLU	CD-OE2	6.09	1.32	1.25
1	N	170	GLU	CD-OE2	6.09	1.32	1.25
1	I	170	GLU	CD-OE2	6.07	1.32	1.25
1	D	170	GLU	CD-OE2	6.06	1.32	1.25
1	L	934	GLU	CD-OE2	6.06	1.32	1.25
1	A	170	GLU	CD-OE2	6.05	1.32	1.25
1	O	170	GLU	CD-OE2	6.05	1.32	1.25
1	K	170	GLU	CD-OE2	6.04	1.32	1.25
1	A	934	GLU	CD-OE2	6.04	1.32	1.25
1	D	934	GLU	CD-OE2	6.04	1.32	1.25
1	K	934	GLU	CD-OE2	6.04	1.32	1.25
1	P	934	GLU	CD-OE2	6.03	1.32	1.25
1	L	358	GLU	CD-OE2	6.03	1.32	1.25
1	B	934	GLU	CD-OE2	6.03	1.32	1.25
1	M	170	GLU	CD-OE2	6.03	1.32	1.25
1	M	934	GLU	CD-OE2	6.02	1.32	1.25
1	J	934	GLU	CD-OE2	6.02	1.32	1.25
1	C	170	GLU	CD-OE2	6.01	1.32	1.25
1	F	934	GLU	CD-OE2	6.01	1.32	1.25
1	H	934	GLU	CD-OE2	6.01	1.32	1.25
1	G	170	GLU	CD-OE2	6.00	1.32	1.25
1	C	979	GLU	CD-OE2	6.00	1.32	1.25
1	B	170	GLU	CD-OE2	5.99	1.32	1.25
1	E	934	GLU	CD-OE2	5.99	1.32	1.25
1	K	979	GLU	CD-OE2	5.99	1.32	1.25
1	I	934	GLU	CD-OE2	5.98	1.32	1.25
1	G	934	GLU	CD-OE2	5.97	1.32	1.25
1	D	979	GLU	CD-OE2	5.97	1.32	1.25
1	N	979	GLU	CD-OE2	5.97	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	979	GLU	CD-OE2	5.97	1.32	1.25
1	B	979	GLU	CD-OE2	5.96	1.32	1.25
1	L	979	GLU	CD-OE2	5.96	1.32	1.25
1	O	934	GLU	CD-OE2	5.96	1.32	1.25
1	N	934	GLU	CD-OE2	5.96	1.32	1.25
1	G	979	GLU	CD-OE2	5.95	1.32	1.25
1	M	979	GLU	CD-OE2	5.95	1.32	1.25
1	O	979	GLU	CD-OE2	5.95	1.32	1.25
1	C	934	GLU	CD-OE2	5.95	1.32	1.25
1	J	979	GLU	CD-OE2	5.93	1.32	1.25
1	F	170	GLU	CD-OE2	5.93	1.32	1.25
1	F	979	GLU	CD-OE2	5.92	1.32	1.25
1	I	979	GLU	CD-OE2	5.92	1.32	1.25
1	H	979	GLU	CD-OE2	5.91	1.32	1.25
1	E	979	GLU	CD-OE2	5.91	1.32	1.25
1	A	979	GLU	CD-OE2	5.90	1.32	1.25
1	L	750	GLU	CD-OE2	5.88	1.32	1.25
1	E	750	GLU	CD-OE2	5.88	1.32	1.25
1	M	750	GLU	CD-OE2	5.87	1.32	1.25
1	B	750	GLU	CD-OE2	5.87	1.32	1.25
1	L	904	GLU	CD-OE2	5.86	1.32	1.25
1	A	750	GLU	CD-OE2	5.86	1.32	1.25
1	I	904	GLU	CD-OE2	5.86	1.32	1.25
1	L	724	GLU	CD-OE2	5.86	1.32	1.25
1	L	641	GLU	CD-OE2	5.85	1.32	1.25
1	J	750	GLU	CD-OE2	5.85	1.32	1.25
1	K	750	GLU	CD-OE2	5.85	1.32	1.25
1	C	724	GLU	CD-OE2	5.84	1.32	1.25
1	J	724	GLU	CD-OE2	5.84	1.32	1.25
1	M	641	GLU	CD-OE2	5.84	1.32	1.25
1	N	724	GLU	CD-OE2	5.84	1.32	1.25
1	I	750	GLU	CD-OE2	5.84	1.32	1.25
1	D	641	GLU	CD-OE2	5.84	1.32	1.25
1	P	750	GLU	CD-OE2	5.84	1.32	1.25
1	H	641	GLU	CD-OE2	5.83	1.32	1.25
1	I	641	GLU	CD-OE2	5.83	1.32	1.25
1	B	904	GLU	CD-OE2	5.83	1.32	1.25
1	J	871	GLU	CD-OE2	5.83	1.32	1.25
1	O	871	GLU	CD-OE2	5.83	1.32	1.25
1	A	904	GLU	CD-OE2	5.82	1.32	1.25
1	O	750	GLU	CD-OE2	5.82	1.32	1.25
1	C	904	GLU	CD-OE2	5.82	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	871	GLU	CD-OE2	5.82	1.32	1.25
1	K	871	GLU	CD-OE2	5.82	1.32	1.25
1	H	724	GLU	CD-OE2	5.82	1.32	1.25
1	I	724	GLU	CD-OE2	5.82	1.32	1.25
1	A	724	GLU	CD-OE2	5.81	1.32	1.25
1	M	724	GLU	CD-OE2	5.81	1.32	1.25
1	G	641	GLU	CD-OE2	5.81	1.32	1.25
1	O	904	GLU	CD-OE2	5.81	1.32	1.25
1	D	750	GLU	CD-OE2	5.81	1.32	1.25
1	F	750	GLU	CD-OE2	5.81	1.32	1.25
1	K	724	GLU	CD-OE2	5.81	1.32	1.25
1	A	641	GLU	CD-OE2	5.81	1.32	1.25
1	C	871	GLU	CD-OE2	5.81	1.32	1.25
1	G	750	GLU	CD-OE2	5.80	1.32	1.25
1	O	641	GLU	CD-OE2	5.80	1.32	1.25
1	F	641	GLU	CD-OE2	5.80	1.32	1.25
1	F	724	GLU	CD-OE2	5.80	1.32	1.25
1	H	750	GLU	CD-OE2	5.80	1.32	1.25
1	E	904	GLU	CD-OE2	5.80	1.32	1.25
1	P	641	GLU	CD-OE2	5.79	1.32	1.25
1	K	904	GLU	CD-OE2	5.79	1.32	1.25
1	P	904	GLU	CD-OE2	5.79	1.32	1.25
1	C	750	GLU	CD-OE2	5.79	1.32	1.25
1	B	724	GLU	CD-OE2	5.79	1.32	1.25
1	E	641	GLU	CD-OE2	5.79	1.32	1.25
1	E	871	GLU	CD-OE2	5.79	1.32	1.25
1	F	904	GLU	CD-OE2	5.79	1.32	1.25
1	P	871	GLU	CD-OE2	5.79	1.32	1.25
1	O	724	GLU	CD-OE2	5.78	1.32	1.25
1	E	724	GLU	CD-OE2	5.78	1.32	1.25
1	N	750	GLU	CD-OE2	5.78	1.32	1.25
1	B	641	GLU	CD-OE2	5.78	1.32	1.25
1	G	871	GLU	CD-OE2	5.77	1.31	1.25
1	H	904	GLU	CD-OE2	5.77	1.31	1.25
1	J	904	GLU	CD-OE2	5.77	1.31	1.25
1	L	871	GLU	CD-OE2	5.77	1.31	1.25
1	H	871	GLU	CD-OE2	5.77	1.31	1.25
1	C	641	GLU	CD-OE2	5.76	1.31	1.25
1	A	871	GLU	CD-OE2	5.76	1.31	1.25
1	J	641	GLU	CD-OE2	5.76	1.31	1.25
1	M	871	GLU	CD-OE2	5.76	1.31	1.25
1	B	871	GLU	CD-OE2	5.76	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	904	GLU	CD-OE2	5.76	1.31	1.25
1	N	641	GLU	CD-OE2	5.75	1.31	1.25
1	N	904	GLU	CD-OE2	5.75	1.31	1.25
1	D	724	GLU	CD-OE2	5.75	1.31	1.25
1	K	641	GLU	CD-OE2	5.75	1.31	1.25
1	F	41	GLU	CD-OE2	5.75	1.31	1.25
1	D	904	GLU	CD-OE2	5.74	1.31	1.25
1	I	871	GLU	CD-OE2	5.74	1.31	1.25
1	G	724	GLU	CD-OE2	5.74	1.31	1.25
1	P	724	GLU	CD-OE2	5.74	1.31	1.25
1	M	904	GLU	CD-OE2	5.74	1.31	1.25
1	N	871	GLU	CD-OE2	5.73	1.31	1.25
1	G	41	GLU	CD-OE2	5.72	1.31	1.25
1	H	41	GLU	CD-OE2	5.72	1.31	1.25
1	B	41	GLU	CD-OE2	5.70	1.31	1.25
1	F	871	GLU	CD-OE2	5.70	1.31	1.25
1	A	41	GLU	CD-OE2	5.68	1.31	1.25
1	P	41	GLU	CD-OE2	5.66	1.31	1.25
1	J	41	GLU	CD-OE2	5.66	1.31	1.25
1	E	67	GLU	CD-OE2	5.66	1.31	1.25
1	L	41	GLU	CD-OE2	5.66	1.31	1.25
1	O	41	GLU	CD-OE2	5.65	1.31	1.25
1	N	41	GLU	CD-OE2	5.64	1.31	1.25
1	N	71	GLU	CD-OE2	5.64	1.31	1.25
1	D	41	GLU	CD-OE2	5.63	1.31	1.25
1	O	67	GLU	CD-OE2	5.63	1.31	1.25
1	D	71	GLU	CD-OE2	5.62	1.31	1.25
1	G	71	GLU	CD-OE2	5.62	1.31	1.25
1	K	41	GLU	CD-OE2	5.62	1.31	1.25
1	E	41	GLU	CD-OE2	5.62	1.31	1.25
1	I	41	GLU	CD-OE2	5.62	1.31	1.25
1	L	71	GLU	CD-OE2	5.61	1.31	1.25
1	P	71	GLU	CD-OE2	5.61	1.31	1.25
1	O	71	GLU	CD-OE2	5.61	1.31	1.25
1	M	41	GLU	CD-OE2	5.60	1.31	1.25
1	C	243	GLU	CD-OE2	5.60	1.31	1.25
1	E	243	GLU	CD-OE2	5.59	1.31	1.25
1	L	67	GLU	CD-OE2	5.59	1.31	1.25
1	J	71	GLU	CD-OE2	5.59	1.31	1.25
1	M	243	GLU	CD-OE2	5.59	1.31	1.25
1	A	71	GLU	CD-OE2	5.58	1.31	1.25
1	G	67	GLU	CD-OE2	5.58	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	71	GLU	CD-OE2	5.58	1.31	1.25
1	C	41	GLU	CD-OE2	5.58	1.31	1.25
1	D	67	GLU	CD-OE2	5.58	1.31	1.25
1	J	243	GLU	CD-OE2	5.58	1.31	1.25
1	C	71	GLU	CD-OE2	5.58	1.31	1.25
1	I	67	GLU	CD-OE2	5.58	1.31	1.25
1	P	67	GLU	CD-OE2	5.58	1.31	1.25
1	H	71	GLU	CD-OE2	5.58	1.31	1.25
1	A	67	GLU	CD-OE2	5.57	1.31	1.25
1	B	67	GLU	CD-OE2	5.57	1.31	1.25
1	I	71	GLU	CD-OE2	5.57	1.31	1.25
1	M	67	GLU	CD-OE2	5.57	1.31	1.25
1	F	67	GLU	CD-OE2	5.56	1.31	1.25
1	N	67	GLU	CD-OE2	5.56	1.31	1.25
1	F	71	GLU	CD-OE2	5.56	1.31	1.25
1	K	67	GLU	CD-OE2	5.56	1.31	1.25
1	I	243	GLU	CD-OE2	5.55	1.31	1.25
1	F	243	GLU	CD-OE2	5.55	1.31	1.25
1	A	243	GLU	CD-OE2	5.54	1.31	1.25
1	D	243	GLU	CD-OE2	5.54	1.31	1.25
1	O	243	GLU	CD-OE2	5.54	1.31	1.25
1	K	71	GLU	CD-OE2	5.54	1.31	1.25
1	K	243	GLU	CD-OE2	5.54	1.31	1.25
1	H	67	GLU	CD-OE2	5.53	1.31	1.25
1	J	67	GLU	CD-OE2	5.53	1.31	1.25
1	N	243	GLU	CD-OE2	5.52	1.31	1.25
1	G	243	GLU	CD-OE2	5.52	1.31	1.25
1	L	243	GLU	CD-OE2	5.52	1.31	1.25
1	H	243	GLU	CD-OE2	5.51	1.31	1.25
1	E	71	GLU	CD-OE2	5.49	1.31	1.25
1	P	243	GLU	CD-OE2	5.49	1.31	1.25
1	C	67	GLU	CD-OE2	5.49	1.31	1.25
1	B	71	GLU	CD-OE2	5.49	1.31	1.25
1	B	243	GLU	CD-OE2	5.47	1.31	1.25
1	H	438	GLU	CD-OE2	5.44	1.31	1.25
1	D	438	GLU	CD-OE2	5.44	1.31	1.25
1	N	438	GLU	CD-OE2	5.40	1.31	1.25
1	L	438	GLU	CD-OE2	5.40	1.31	1.25
1	I	438	GLU	CD-OE2	5.39	1.31	1.25
1	M	438	GLU	CD-OE2	5.39	1.31	1.25
1	A	438	GLU	CD-OE2	5.39	1.31	1.25
1	K	438	GLU	CD-OE2	5.39	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	438	GLU	CD-OE2	5.38	1.31	1.25
1	C	438	GLU	CD-OE2	5.38	1.31	1.25
1	J	438	GLU	CD-OE2	5.38	1.31	1.25
1	E	438	GLU	CD-OE2	5.37	1.31	1.25
1	O	438	GLU	CD-OE2	5.36	1.31	1.25
1	H	17	GLU	CD-OE2	5.34	1.31	1.25
1	G	438	GLU	CD-OE2	5.34	1.31	1.25
1	E	17	GLU	CD-OE2	5.32	1.31	1.25
1	P	438	GLU	CD-OE2	5.31	1.31	1.25
1	G	17	GLU	CD-OE2	5.31	1.31	1.25
1	J	17	GLU	CD-OE2	5.30	1.31	1.25
1	K	17	GLU	CD-OE2	5.29	1.31	1.25
1	O	17	GLU	CD-OE2	5.29	1.31	1.25
1	B	17	GLU	CD-OE2	5.29	1.31	1.25
1	F	17	GLU	CD-OE2	5.28	1.31	1.25
1	B	438	GLU	CD-OE2	5.28	1.31	1.25
1	A	17	GLU	CD-OE2	5.27	1.31	1.25
1	P	17	GLU	CD-OE2	5.26	1.31	1.25
1	D	17	GLU	CD-OE2	5.26	1.31	1.25
1	M	17	GLU	CD-OE2	5.24	1.31	1.25
1	L	17	GLU	CD-OE2	5.23	1.31	1.25
1	C	17	GLU	CD-OE2	5.23	1.31	1.25
1	I	416	GLU	CD-OE2	5.22	1.31	1.25
1	I	17	GLU	CD-OE2	5.21	1.31	1.25
1	O	416	GLU	CD-OE2	5.21	1.31	1.25
1	N	17	GLU	CD-OE2	5.20	1.31	1.25
1	N	416	GLU	CD-OE2	5.20	1.31	1.25
1	J	416	GLU	CD-OE2	5.18	1.31	1.25
1	B	416	GLU	CD-OE2	5.18	1.31	1.25
1	K	416	GLU	CD-OE2	5.18	1.31	1.25
1	A	416	GLU	CD-OE2	5.17	1.31	1.25
1	G	416	GLU	CD-OE2	5.16	1.31	1.25
1	D	416	GLU	CD-OE2	5.16	1.31	1.25
1	C	416	GLU	CD-OE2	5.15	1.31	1.25
1	F	416	GLU	CD-OE2	5.15	1.31	1.25
1	K	808	GLU	CD-OE2	5.15	1.31	1.25
1	L	416	GLU	CD-OE2	5.15	1.31	1.25
1	M	416	GLU	CD-OE2	5.14	1.31	1.25
1	H	416	GLU	CD-OE2	5.13	1.31	1.25
1	O	808	GLU	CD-OE2	5.13	1.31	1.25
1	P	416	GLU	CD-OE2	5.13	1.31	1.25
1	L	808	GLU	CD-OE2	5.12	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	808	GLU	CD-OE2	5.11	1.31	1.25
1	D	808	GLU	CD-OE2	5.11	1.31	1.25
1	E	416	GLU	CD-OE2	5.10	1.31	1.25
1	M	808	GLU	CD-OE2	5.10	1.31	1.25
1	P	808	GLU	CD-OE2	5.10	1.31	1.25
1	H	808	GLU	CD-OE2	5.08	1.31	1.25
1	I	808	GLU	CD-OE2	5.07	1.31	1.25
1	J	808	GLU	CD-OE2	5.07	1.31	1.25
1	G	808	GLU	CD-OE2	5.05	1.31	1.25
1	F	808	GLU	CD-OE2	5.04	1.31	1.25
1	G	619	GLU	CD-OE2	5.04	1.31	1.25
1	L	619	GLU	CD-OE2	5.03	1.31	1.25
1	N	808	GLU	CD-OE2	5.02	1.31	1.25
1	A	808	GLU	CD-OE2	5.01	1.31	1.25
1	O	619	GLU	CD-OE2	5.01	1.31	1.25
1	B	808	GLU	CD-OE2	5.01	1.31	1.25
1	P	619	GLU	CD-OE2	5.01	1.31	1.25

All (2531) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	210	ARG	NE-CZ-NH1	14.48	127.54	120.30
1	P	210	ARG	NE-CZ-NH1	14.45	127.53	120.30
1	G	210	ARG	NE-CZ-NH1	14.44	127.52	120.30
1	D	210	ARG	NE-CZ-NH1	14.42	127.51	120.30
1	A	210	ARG	NE-CZ-NH1	14.41	127.50	120.30
1	N	210	ARG	NE-CZ-NH1	14.41	127.50	120.30
1	O	210	ARG	NE-CZ-NH1	14.40	127.50	120.30
1	H	210	ARG	NE-CZ-NH1	14.39	127.49	120.30
1	L	210	ARG	NE-CZ-NH1	14.37	127.49	120.30
1	B	210	ARG	NE-CZ-NH1	14.37	127.48	120.30
1	F	210	ARG	NE-CZ-NH1	14.33	127.46	120.30
1	I	210	ARG	NE-CZ-NH1	14.33	127.46	120.30
1	M	210	ARG	NE-CZ-NH1	14.33	127.46	120.30
1	E	210	ARG	NE-CZ-NH1	14.30	127.45	120.30
1	K	210	ARG	NE-CZ-NH1	14.30	127.45	120.30
1	C	210	ARG	NE-CZ-NH1	14.28	127.44	120.30
1	A	687	GLN	C-N-CD	-13.72	90.42	120.60
1	D	687	GLN	C-N-CD	-13.72	90.42	120.60
1	K	687	GLN	C-N-CD	-13.71	90.45	120.60
1	F	687	GLN	C-N-CD	-13.70	90.45	120.60
1	B	687	GLN	C-N-CD	-13.70	90.46	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	687	GLN	C-N-CD	-13.70	90.46	120.60
1	N	687	GLN	C-N-CD	-13.70	90.46	120.60
1	C	687	GLN	C-N-CD	-13.70	90.47	120.60
1	O	687	GLN	C-N-CD	-13.70	90.46	120.60
1	H	687	GLN	C-N-CD	-13.70	90.47	120.60
1	M	687	GLN	C-N-CD	-13.70	90.47	120.60
1	E	687	GLN	C-N-CD	-13.69	90.48	120.60
1	G	687	GLN	C-N-CD	-13.69	90.48	120.60
1	P	687	GLN	C-N-CD	-13.69	90.48	120.60
1	J	687	GLN	C-N-CD	-13.69	90.49	120.60
1	L	687	GLN	C-N-CD	-13.68	90.50	120.60
1	C	425	ARG	NE-CZ-NH1	12.09	126.34	120.30
1	E	425	ARG	NE-CZ-NH1	12.07	126.34	120.30
1	K	425	ARG	NE-CZ-NH1	12.07	126.33	120.30
1	G	425	ARG	NE-CZ-NH1	12.06	126.33	120.30
1	B	425	ARG	NE-CZ-NH1	12.06	126.33	120.30
1	I	425	ARG	NE-CZ-NH1	12.06	126.33	120.30
1	F	425	ARG	NE-CZ-NH1	12.05	126.33	120.30
1	H	425	ARG	NE-CZ-NH1	12.05	126.32	120.30
1	N	425	ARG	NE-CZ-NH1	12.05	126.32	120.30
1	L	425	ARG	NE-CZ-NH1	12.03	126.32	120.30
1	A	425	ARG	NE-CZ-NH1	12.03	126.31	120.30
1	M	425	ARG	NE-CZ-NH1	12.03	126.31	120.30
1	P	425	ARG	NE-CZ-NH1	12.02	126.31	120.30
1	D	425	ARG	NE-CZ-NH1	12.02	126.31	120.30
1	O	425	ARG	NE-CZ-NH1	11.99	126.30	120.30
1	J	425	ARG	NE-CZ-NH1	11.97	126.28	120.30
1	G	388	ARG	NE-CZ-NH1	11.71	126.16	120.30
1	I	425	ARG	NE-CZ-NH2	-11.70	114.45	120.30
1	N	425	ARG	NE-CZ-NH2	-11.70	114.45	120.30
1	J	388	ARG	NE-CZ-NH1	11.70	126.15	120.30
1	B	388	ARG	NE-CZ-NH1	11.69	126.14	120.30
1	M	388	ARG	NE-CZ-NH1	11.69	126.14	120.30
1	D	388	ARG	NE-CZ-NH1	11.66	126.13	120.30
1	P	388	ARG	NE-CZ-NH1	11.66	126.13	120.30
1	H	388	ARG	NE-CZ-NH1	11.65	126.13	120.30
1	O	388	ARG	NE-CZ-NH1	11.63	126.12	120.30
1	K	388	ARG	NE-CZ-NH1	11.63	126.11	120.30
1	C	425	ARG	NE-CZ-NH2	-11.63	114.49	120.30
1	K	425	ARG	NE-CZ-NH2	-11.63	114.49	120.30
1	E	425	ARG	NE-CZ-NH2	-11.63	114.49	120.30
1	A	388	ARG	NE-CZ-NH1	11.62	126.11	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	425	ARG	NE-CZ-NH2	-11.62	114.49	120.30
1	C	388	ARG	NE-CZ-NH1	11.61	126.10	120.30
1	L	388	ARG	NE-CZ-NH1	11.60	126.10	120.30
1	F	425	ARG	NE-CZ-NH2	-11.60	114.50	120.30
1	N	388	ARG	NE-CZ-NH1	11.60	126.10	120.30
1	I	388	ARG	NE-CZ-NH1	11.60	126.10	120.30
1	F	388	ARG	NE-CZ-NH1	11.59	126.10	120.30
1	H	425	ARG	NE-CZ-NH2	-11.59	114.51	120.30
1	M	425	ARG	NE-CZ-NH2	-11.58	114.51	120.30
1	G	425	ARG	NE-CZ-NH2	-11.58	114.51	120.30
1	A	425	ARG	NE-CZ-NH2	-11.57	114.51	120.30
1	E	388	ARG	NE-CZ-NH1	11.55	126.07	120.30
1	D	425	ARG	NE-CZ-NH2	-11.55	114.53	120.30
1	J	425	ARG	NE-CZ-NH2	-11.55	114.53	120.30
1	P	425	ARG	NE-CZ-NH2	-11.54	114.53	120.30
1	B	425	ARG	NE-CZ-NH2	-11.52	114.54	120.30
1	O	425	ARG	NE-CZ-NH2	-11.50	114.55	120.30
1	F	881	ARG	NE-CZ-NH1	11.48	126.04	120.30
1	J	881	ARG	NE-CZ-NH1	11.47	126.04	120.30
1	B	881	ARG	NE-CZ-NH1	11.46	126.03	120.30
1	C	881	ARG	NE-CZ-NH1	11.43	126.01	120.30
1	E	881	ARG	NE-CZ-NH1	11.42	126.01	120.30
1	O	881	ARG	NE-CZ-NH1	11.42	126.01	120.30
1	M	881	ARG	NE-CZ-NH1	11.42	126.01	120.30
1	G	881	ARG	NE-CZ-NH1	11.40	126.00	120.30
1	D	881	ARG	NE-CZ-NH1	11.38	125.99	120.30
1	H	881	ARG	NE-CZ-NH1	11.37	125.99	120.30
1	A	881	ARG	NE-CZ-NH1	11.37	125.98	120.30
1	I	881	ARG	NE-CZ-NH1	11.37	125.98	120.30
1	P	881	ARG	NE-CZ-NH1	11.36	125.98	120.30
1	K	881	ARG	NE-CZ-NH1	11.31	125.95	120.30
1	L	881	ARG	NE-CZ-NH1	11.29	125.94	120.30
1	N	881	ARG	NE-CZ-NH1	11.25	125.92	120.30
1	F	809	ARG	NE-CZ-NH2	-10.76	114.92	120.30
1	N	809	ARG	NE-CZ-NH2	-10.72	114.94	120.30
1	G	809	ARG	NE-CZ-NH2	-10.71	114.95	120.30
1	D	809	ARG	NE-CZ-NH2	-10.70	114.95	120.30
1	B	809	ARG	NE-CZ-NH2	-10.69	114.96	120.30
1	M	809	ARG	NE-CZ-NH2	-10.69	114.96	120.30
1	K	809	ARG	NE-CZ-NH2	-10.68	114.96	120.30
1	C	809	ARG	NE-CZ-NH2	-10.67	114.97	120.30
1	I	809	ARG	NE-CZ-NH2	-10.67	114.97	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	809	ARG	NE-CZ-NH2	-10.63	114.98	120.30
1	O	809	ARG	NE-CZ-NH2	-10.63	114.99	120.30
1	E	809	ARG	NE-CZ-NH2	-10.62	114.99	120.30
1	J	809	ARG	NE-CZ-NH2	-10.61	115.00	120.30
1	P	809	ARG	NE-CZ-NH2	-10.61	115.00	120.30
1	H	809	ARG	NE-CZ-NH2	-10.59	115.01	120.30
1	L	809	ARG	NE-CZ-NH2	-10.57	115.01	120.30
1	J	881	ARG	NE-CZ-NH2	-10.52	115.04	120.30
1	G	881	ARG	NE-CZ-NH2	-10.51	115.04	120.30
1	M	881	ARG	NE-CZ-NH2	-10.51	115.05	120.30
1	F	881	ARG	NE-CZ-NH2	-10.50	115.05	120.30
1	B	881	ARG	NE-CZ-NH2	-10.50	115.05	120.30
1	H	881	ARG	NE-CZ-NH2	-10.49	115.05	120.30
1	C	881	ARG	NE-CZ-NH2	-10.47	115.06	120.30
1	I	881	ARG	NE-CZ-NH2	-10.44	115.08	120.30
1	A	881	ARG	NE-CZ-NH2	-10.42	115.09	120.30
1	O	881	ARG	NE-CZ-NH2	-10.42	115.09	120.30
1	E	881	ARG	NE-CZ-NH2	-10.39	115.11	120.30
1	K	881	ARG	NE-CZ-NH2	-10.39	115.10	120.30
1	L	881	ARG	NE-CZ-NH2	-10.36	115.12	120.30
1	N	881	ARG	NE-CZ-NH2	-10.33	115.13	120.30
1	D	881	ARG	NE-CZ-NH2	-10.33	115.13	120.30
1	P	881	ARG	NE-CZ-NH2	-10.27	115.17	120.30
1	K	429	ASP	CB-CG-OD2	-10.26	109.07	118.30
1	D	429	ASP	CB-CG-OD2	-10.25	109.07	118.30
1	M	429	ASP	CB-CG-OD2	-10.25	109.08	118.30
1	B	429	ASP	CB-CG-OD2	-10.25	109.08	118.30
1	O	429	ASP	CB-CG-OD2	-10.23	109.09	118.30
1	J	429	ASP	CB-CG-OD2	-10.23	109.09	118.30
1	E	429	ASP	CB-CG-OD2	-10.22	109.10	118.30
1	F	429	ASP	CB-CG-OD2	-10.22	109.10	118.30
1	G	429	ASP	CB-CG-OD2	-10.22	109.10	118.30
1	A	429	ASP	CB-CG-OD2	-10.21	109.11	118.30
1	N	429	ASP	CB-CG-OD2	-10.21	109.11	118.30
1	H	429	ASP	CB-CG-OD2	-10.21	109.11	118.30
1	L	429	ASP	CB-CG-OD2	-10.21	109.11	118.30
1	C	429	ASP	CB-CG-OD2	-10.20	109.12	118.30
1	I	429	ASP	CB-CG-OD2	-10.20	109.12	118.30
1	P	429	ASP	CB-CG-OD2	-10.18	109.14	118.30
1	E	429	ASP	CB-CG-OD1	10.08	127.37	118.30
1	K	429	ASP	CB-CG-OD1	10.08	127.37	118.30
1	P	429	ASP	CB-CG-OD1	10.07	127.36	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	429	ASP	CB-CG-OD1	10.06	127.36	118.30
1	J	429	ASP	CB-CG-OD1	10.06	127.35	118.30
1	M	429	ASP	CB-CG-OD1	10.05	127.35	118.30
1	N	429	ASP	CB-CG-OD1	10.05	127.35	118.30
1	F	429	ASP	CB-CG-OD1	10.05	127.34	118.30
1	I	429	ASP	CB-CG-OD1	10.04	127.34	118.30
1	A	429	ASP	CB-CG-OD1	10.04	127.33	118.30
1	B	429	ASP	CB-CG-OD1	10.03	127.33	118.30
1	L	429	ASP	CB-CG-OD1	10.03	127.33	118.30
1	H	429	ASP	CB-CG-OD1	10.03	127.33	118.30
1	G	429	ASP	CB-CG-OD1	10.02	127.31	118.30
1	D	429	ASP	CB-CG-OD1	10.01	127.31	118.30
1	C	429	ASP	CB-CG-OD1	10.00	127.30	118.30
1	E	448	ARG	NE-CZ-NH2	-9.52	115.54	120.30
1	F	786	ARG	NE-CZ-NH1	9.49	125.04	120.30
1	F	448	ARG	NE-CZ-NH2	-9.48	115.56	120.30
1	G	786	ARG	NE-CZ-NH1	9.48	125.04	120.30
1	M	786	ARG	NE-CZ-NH1	9.46	125.03	120.30
1	D	786	ARG	NE-CZ-NH1	9.45	125.03	120.30
1	K	448	ARG	NE-CZ-NH2	-9.45	115.58	120.30
1	P	786	ARG	NE-CZ-NH1	9.45	125.02	120.30
1	K	786	ARG	NE-CZ-NH1	9.43	125.01	120.30
1	P	448	ARG	NE-CZ-NH2	-9.42	115.59	120.30
1	K	509	ASP	CB-CG-OD2	-9.41	109.83	118.30
1	A	786	ARG	NE-CZ-NH1	9.41	125.00	120.30
1	J	509	ASP	CB-CG-OD2	-9.41	109.83	118.30
1	O	448	ARG	NE-CZ-NH2	-9.41	115.60	120.30
1	D	509	ASP	CB-CG-OD2	-9.40	109.84	118.30
1	N	786	ARG	NE-CZ-NH1	9.40	125.00	120.30
1	H	786	ARG	NE-CZ-NH1	9.40	125.00	120.30
1	P	509	ASP	CB-CG-OD2	-9.40	109.84	118.30
1	A	509	ASP	CB-CG-OD2	-9.39	109.85	118.30
1	B	448	ARG	NE-CZ-NH2	-9.39	115.60	120.30
1	M	448	ARG	NE-CZ-NH2	-9.39	115.60	120.30
1	M	509	ASP	CB-CG-OD2	-9.39	109.85	118.30
1	H	448	ARG	NE-CZ-NH2	-9.38	115.61	120.30
1	L	509	ASP	CB-CG-OD2	-9.38	109.86	118.30
1	A	448	ARG	NE-CZ-NH2	-9.38	115.61	120.30
1	F	509	ASP	CB-CG-OD2	-9.37	109.86	118.30
1	O	509	ASP	CB-CG-OD2	-9.37	109.86	118.30
1	H	509	ASP	CB-CG-OD2	-9.37	109.87	118.30
1	C	509	ASP	CB-CG-OD2	-9.37	109.87	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	448	ARG	NE-CZ-NH2	-9.37	115.62	120.30
1	I	509	ASP	CB-CG-OD2	-9.37	109.87	118.30
1	B	509	ASP	CB-CG-OD2	-9.36	109.87	118.30
1	B	786	ARG	NE-CZ-NH1	9.36	124.98	120.30
1	C	786	ARG	NE-CZ-NH1	9.36	124.98	120.30
1	E	786	ARG	NE-CZ-NH1	9.35	124.98	120.30
1	I	786	ARG	NE-CZ-NH1	9.35	124.98	120.30
1	G	509	ASP	CB-CG-OD2	-9.35	109.89	118.30
1	N	509	ASP	CB-CG-OD2	-9.34	109.89	118.30
1	G	448	ARG	NE-CZ-NH2	-9.34	115.63	120.30
1	J	786	ARG	NE-CZ-NH1	9.34	124.97	120.30
1	L	448	ARG	NE-CZ-NH2	-9.34	115.63	120.30
1	N	448	ARG	NE-CZ-NH2	-9.34	115.63	120.30
1	E	509	ASP	CB-CG-OD2	-9.33	109.90	118.30
1	O	786	ARG	NE-CZ-NH1	9.33	124.97	120.30
1	D	448	ARG	NE-CZ-NH2	-9.33	115.64	120.30
1	J	448	ARG	NE-CZ-NH2	-9.32	115.64	120.30
1	L	786	ARG	NE-CZ-NH1	9.32	124.96	120.30
1	C	448	ARG	NE-CZ-NH2	-9.30	115.65	120.30
1	L	368	ASP	CB-CG-OD2	-9.12	110.09	118.30
1	A	368	ASP	CB-CG-OD2	-9.11	110.10	118.30
1	E	368	ASP	CB-CG-OD2	-9.12	110.10	118.30
1	J	368	ASP	CB-CG-OD2	-9.11	110.10	118.30
1	O	368	ASP	CB-CG-OD2	-9.10	110.11	118.30
1	K	368	ASP	CB-CG-OD2	-9.10	110.11	118.30
1	P	368	ASP	CB-CG-OD2	-9.10	110.11	118.30
1	D	368	ASP	CB-CG-OD2	-9.09	110.12	118.30
1	G	368	ASP	CB-CG-OD2	-9.09	110.12	118.30
1	M	368	ASP	CB-CG-OD2	-9.09	110.12	118.30
1	I	368	ASP	CB-CG-OD2	-9.08	110.13	118.30
1	H	368	ASP	CB-CG-OD2	-9.08	110.13	118.30
1	B	368	ASP	CB-CG-OD2	-9.07	110.13	118.30
1	B	746	ASP	CB-CG-OD2	-9.06	110.14	118.30
1	C	368	ASP	CB-CG-OD2	-9.06	110.15	118.30
1	N	368	ASP	CB-CG-OD2	-9.06	110.15	118.30
1	F	368	ASP	CB-CG-OD2	-9.05	110.16	118.30
1	J	746	ASP	CB-CG-OD2	-9.04	110.16	118.30
1	A	746	ASP	CB-CG-OD2	-9.03	110.17	118.30
1	D	746	ASP	CB-CG-OD2	-9.03	110.17	118.30
1	J	909	ARG	NE-CZ-NH1	9.03	124.81	120.30
1	G	746	ASP	CB-CG-OD2	-9.02	110.18	118.30
1	F	746	ASP	CB-CG-OD2	-9.02	110.19	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	746	ASP	CB-CG-OD2	-9.02	110.19	118.30
1	I	746	ASP	CB-CG-OD2	-9.01	110.19	118.30
1	A	909	ARG	NE-CZ-NH1	9.01	124.81	120.30
1	F	909	ARG	NE-CZ-NH1	9.01	124.81	120.30
1	G	909	ARG	NE-CZ-NH1	9.01	124.81	120.30
1	H	746	ASP	CB-CG-OD2	-9.01	110.19	118.30
1	B	909	ARG	NE-CZ-NH1	9.01	124.80	120.30
1	N	746	ASP	CB-CG-OD2	-9.00	110.20	118.30
1	K	746	ASP	CB-CG-OD2	-9.00	110.20	118.30
1	L	746	ASP	CB-CG-OD2	-9.00	110.20	118.30
1	M	746	ASP	CB-CG-OD2	-9.00	110.20	118.30
1	C	746	ASP	CB-CG-OD2	-8.99	110.20	118.30
1	P	746	ASP	CB-CG-OD2	-8.99	110.20	118.30
1	E	746	ASP	CB-CG-OD2	-8.99	110.21	118.30
1	K	909	ARG	NE-CZ-NH1	8.95	124.78	120.30
1	N	909	ARG	NE-CZ-NH1	8.94	124.77	120.30
1	L	909	ARG	NE-CZ-NH1	8.94	124.77	120.30
1	P	909	ARG	NE-CZ-NH1	8.94	124.77	120.30
1	I	909	ARG	NE-CZ-NH1	8.94	124.77	120.30
1	D	909	ARG	NE-CZ-NH1	8.93	124.77	120.30
1	H	909	ARG	NE-CZ-NH1	8.93	124.76	120.30
1	P	561	ARG	NE-CZ-NH1	8.92	124.76	120.30
1	B	561	ARG	NE-CZ-NH1	8.91	124.76	120.30
1	E	909	ARG	NE-CZ-NH1	8.90	124.75	120.30
1	M	909	ARG	NE-CZ-NH1	8.90	124.75	120.30
1	M	561	ARG	NE-CZ-NH1	8.89	124.75	120.30
1	C	909	ARG	NE-CZ-NH1	8.89	124.74	120.30
1	O	909	ARG	NE-CZ-NH1	8.87	124.74	120.30
1	E	561	ARG	NE-CZ-NH1	8.86	124.73	120.30
1	I	561	ARG	NE-CZ-NH1	8.85	124.72	120.30
1	H	561	ARG	NE-CZ-NH1	8.84	124.72	120.30
1	A	561	ARG	NE-CZ-NH1	8.82	124.71	120.30
1	D	561	ARG	NE-CZ-NH1	8.81	124.70	120.30
1	K	561	ARG	NE-CZ-NH1	8.80	124.70	120.30
1	O	561	ARG	NE-CZ-NH1	8.80	124.70	120.30
1	J	561	ARG	NE-CZ-NH1	8.79	124.69	120.30
1	L	561	ARG	NE-CZ-NH1	8.79	124.69	120.30
1	C	561	ARG	NE-CZ-NH1	8.77	124.68	120.30
1	G	561	ARG	NE-CZ-NH1	8.76	124.68	120.30
1	N	561	ARG	NE-CZ-NH1	8.72	124.66	120.30
1	F	561	ARG	NE-CZ-NH1	8.72	124.66	120.30
1	J	428	ASP	CB-CG-OD2	-8.49	110.66	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	428	ASP	CB-CG-OD2	-8.46	110.69	118.30
1	E	428	ASP	CB-CG-OD2	-8.46	110.69	118.30
1	L	329	ASP	CB-CG-OD2	-8.44	110.70	118.30
1	C	428	ASP	CB-CG-OD2	-8.44	110.70	118.30
1	A	428	ASP	CB-CG-OD2	-8.44	110.71	118.30
1	H	329	ASP	CB-CG-OD2	-8.43	110.71	118.30
1	K	329	ASP	CB-CG-OD2	-8.43	110.71	118.30
1	H	428	ASP	CB-CG-OD2	-8.43	110.71	118.30
1	I	329	ASP	CB-CG-OD2	-8.43	110.71	118.30
1	I	428	ASP	CB-CG-OD2	-8.43	110.71	118.30
1	M	329	ASP	CB-CG-OD2	-8.43	110.72	118.30
1	E	329	ASP	CB-CG-OD2	-8.42	110.73	118.30
1	F	329	ASP	CB-CG-OD2	-8.42	110.73	118.30
1	O	329	ASP	CB-CG-OD2	-8.41	110.73	118.30
1	G	428	ASP	CB-CG-OD2	-8.41	110.73	118.30
1	D	428	ASP	CB-CG-OD2	-8.41	110.73	118.30
1	J	329	ASP	CB-CG-OD2	-8.41	110.73	118.30
1	C	329	ASP	CB-CG-OD2	-8.40	110.73	118.30
1	K	428	ASP	CB-CG-OD2	-8.40	110.74	118.30
1	A	329	ASP	CB-CG-OD2	-8.40	110.74	118.30
1	N	428	ASP	CB-CG-OD2	-8.40	110.74	118.30
1	P	329	ASP	CB-CG-OD2	-8.39	110.75	118.30
1	B	329	ASP	CB-CG-OD2	-8.39	110.75	118.30
1	L	428	ASP	CB-CG-OD2	-8.39	110.75	118.30
1	P	428	ASP	CB-CG-OD2	-8.39	110.75	118.30
1	B	428	ASP	CB-CG-OD2	-8.38	110.76	118.30
1	G	329	ASP	CB-CG-OD2	-8.38	110.76	118.30
1	F	428	ASP	CB-CG-OD2	-8.37	110.76	118.30
1	M	428	ASP	CB-CG-OD2	-8.37	110.77	118.30
1	D	329	ASP	CB-CG-OD2	-8.36	110.77	118.30
1	N	329	ASP	CB-CG-OD2	-8.34	110.79	118.30
1	H	96	ASP	CB-CG-OD2	-8.34	110.80	118.30
1	H	571	VAL	CB-CA-C	-8.33	95.58	111.40
1	M	96	ASP	CB-CG-OD2	-8.32	110.81	118.30
1	J	96	ASP	CB-CG-OD2	-8.32	110.81	118.30
1	I	571	VAL	CB-CA-C	-8.32	95.59	111.40
1	O	571	VAL	CB-CA-C	-8.32	95.59	111.40
1	B	96	ASP	CB-CG-OD2	-8.31	110.82	118.30
1	K	96	ASP	CB-CG-OD2	-8.31	110.82	118.30
1	K	571	VAL	CB-CA-C	-8.31	95.61	111.40
1	C	571	VAL	CB-CA-C	-8.31	95.62	111.40
1	B	571	VAL	CB-CA-C	-8.30	95.62	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	571	VAL	CB-CA-C	-8.30	95.62	111.40
1	M	571	VAL	CB-CA-C	-8.30	95.63	111.40
1	A	571	VAL	CB-CA-C	-8.30	95.64	111.40
1	J	571	VAL	CB-CA-C	-8.29	95.64	111.40
1	D	571	VAL	CB-CA-C	-8.29	95.64	111.40
1	N	96	ASP	CB-CG-OD2	-8.29	110.84	118.30
1	G	571	VAL	CB-CA-C	-8.29	95.66	111.40
1	P	571	VAL	CB-CA-C	-8.28	95.66	111.40
1	E	571	VAL	CB-CA-C	-8.28	95.67	111.40
1	A	96	ASP	CB-CG-OD2	-8.28	110.85	118.30
1	G	96	ASP	CB-CG-OD2	-8.28	110.85	118.30
1	O	96	ASP	CB-CG-OD2	-8.28	110.85	118.30
1	D	96	ASP	CB-CG-OD2	-8.28	110.85	118.30
1	F	571	VAL	CB-CA-C	-8.28	95.68	111.40
1	E	96	ASP	CB-CG-OD2	-8.27	110.85	118.30
1	F	96	ASP	CB-CG-OD2	-8.27	110.85	118.30
1	I	96	ASP	CB-CG-OD2	-8.27	110.85	118.30
1	L	571	VAL	CB-CA-C	-8.27	95.68	111.40
1	L	96	ASP	CB-CG-OD2	-8.27	110.86	118.30
1	P	96	ASP	CB-CG-OD2	-8.27	110.86	118.30
1	C	96	ASP	CB-CG-OD2	-8.27	110.86	118.30
1	N	130	ASP	CB-CG-OD1	8.23	125.71	118.30
1	D	130	ASP	CB-CG-OD1	8.22	125.69	118.30
1	O	130	ASP	CB-CG-OD1	8.21	125.69	118.30
1	G	130	ASP	CB-CG-OD1	8.20	125.68	118.30
1	H	130	ASP	CB-CG-OD1	8.20	125.68	118.30
1	K	130	ASP	CB-CG-OD1	8.18	125.67	118.30
1	F	130	ASP	CB-CG-OD1	8.16	125.64	118.30
1	I	973	ARG	NE-CZ-NH1	8.15	124.38	120.30
1	E	130	ASP	CB-CG-OD1	8.15	125.64	118.30
1	L	130	ASP	CB-CG-OD1	8.15	125.63	118.30
1	H	973	ARG	NE-CZ-NH1	8.14	124.37	120.30
1	J	130	ASP	CB-CG-OD1	8.14	125.63	118.30
1	P	973	ARG	NE-CZ-NH1	8.14	124.37	120.30
1	B	130	ASP	CB-CG-OD1	8.14	125.62	118.30
1	P	130	ASP	CB-CG-OD1	8.13	125.61	118.30
1	I	130	ASP	CB-CG-OD1	8.12	125.61	118.30
1	A	130	ASP	CB-CG-OD1	8.12	125.61	118.30
1	G	973	ARG	NE-CZ-NH1	8.12	124.36	120.30
1	B	973	ARG	NE-CZ-NH1	8.12	124.36	120.30
1	C	130	ASP	CB-CG-OD1	8.12	125.61	118.30
1	M	130	ASP	CB-CG-OD1	8.12	125.61	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	973	ARG	NE-CZ-NH1	8.12	124.36	120.30
1	K	43	ARG	NE-CZ-NH1	8.12	124.36	120.30
1	A	973	ARG	NE-CZ-NH1	8.10	124.35	120.30
1	N	43	ARG	NE-CZ-NH1	8.09	124.35	120.30
1	L	973	ARG	NE-CZ-NH1	8.08	124.34	120.30
1	M	973	ARG	NE-CZ-NH1	8.08	124.34	120.30
1	J	973	ARG	NE-CZ-NH1	8.08	124.34	120.30
1	K	973	ARG	NE-CZ-NH1	8.08	124.34	120.30
1	N	973	ARG	NE-CZ-NH1	8.06	124.33	120.30
1	O	43	ARG	NE-CZ-NH1	8.05	124.33	120.30
1	O	356	ARG	NE-CZ-NH1	8.05	124.32	120.30
1	F	973	ARG	NE-CZ-NH1	8.04	124.32	120.30
1	H	43	ARG	NE-CZ-NH1	8.05	124.32	120.30
1	B	356	ARG	NE-CZ-NH1	8.04	124.32	120.30
1	G	43	ARG	NE-CZ-NH1	8.04	124.32	120.30
1	J	43	ARG	NE-CZ-NH1	8.04	124.32	120.30
1	P	43	ARG	NE-CZ-NH1	8.03	124.31	120.30
1	I	356	ARG	NE-CZ-NH1	8.03	124.31	120.30
1	I	43	ARG	NE-CZ-NH1	8.03	124.31	120.30
1	G	659	ASP	CB-CG-OD2	-8.03	111.08	118.30
1	C	356	ARG	NE-CZ-NH1	8.02	124.31	120.30
1	B	43	ARG	NE-CZ-NH1	8.02	124.31	120.30
1	M	43	ARG	NE-CZ-NH1	8.02	124.31	120.30
1	G	809	ARG	NE-CZ-NH1	8.01	124.30	120.30
1	C	43	ARG	NE-CZ-NH1	8.01	124.30	120.30
1	E	43	ARG	NE-CZ-NH1	8.00	124.30	120.30
1	C	659	ASP	CB-CG-OD2	-8.00	111.10	118.30
1	E	356	ARG	NE-CZ-NH1	8.00	124.30	120.30
1	F	659	ASP	CB-CG-OD2	-8.00	111.10	118.30
1	M	659	ASP	CB-CG-OD2	-7.99	111.11	118.30
1	N	659	ASP	CB-CG-OD2	-7.99	111.11	118.30
1	C	973	ARG	NE-CZ-NH1	7.98	124.29	120.30
1	H	659	ASP	CB-CG-OD2	-7.98	111.12	118.30
1	D	356	ARG	NE-CZ-NH1	7.97	124.28	120.30
1	D	973	ARG	NE-CZ-NH1	7.97	124.28	120.30
1	J	356	ARG	NE-CZ-NH1	7.97	124.28	120.30
1	F	356	ARG	NE-CZ-NH1	7.96	124.28	120.30
1	E	973	ARG	NE-CZ-NH1	7.96	124.28	120.30
1	B	659	ASP	CB-CG-OD2	-7.96	111.14	118.30
1	I	659	ASP	CB-CG-OD2	-7.96	111.14	118.30
1	A	659	ASP	CB-CG-OD2	-7.96	111.14	118.30
1	E	659	ASP	CB-CG-OD2	-7.96	111.14	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	356	ARG	NE-CZ-NH1	7.96	124.28	120.30
1	D	43	ARG	NE-CZ-NH1	7.96	124.28	120.30
1	J	659	ASP	CB-CG-OD2	-7.96	111.14	118.30
1	C	809	ARG	NE-CZ-NH1	7.95	124.28	120.30
1	P	659	ASP	CB-CG-OD2	-7.95	111.14	118.30
1	K	356	ARG	NE-CZ-NH1	7.95	124.28	120.30
1	M	356	ARG	NE-CZ-NH1	7.95	124.28	120.30
1	D	659	ASP	CB-CG-OD2	-7.94	111.15	118.30
1	L	659	ASP	CB-CG-OD2	-7.94	111.15	118.30
1	N	356	ARG	NE-CZ-NH1	7.94	124.27	120.30
1	P	356	ARG	NE-CZ-NH1	7.94	124.27	120.30
1	L	356	ARG	NE-CZ-NH1	7.94	124.27	120.30
1	K	659	ASP	CB-CG-OD2	-7.93	111.16	118.30
1	L	43	ARG	NE-CZ-NH1	7.93	124.26	120.30
1	D	809	ARG	NE-CZ-NH1	7.92	124.26	120.30
1	O	659	ASP	CB-CG-OD2	-7.92	111.17	118.30
1	A	43	ARG	NE-CZ-NH1	7.92	124.26	120.30
1	G	356	ARG	NE-CZ-NH1	7.89	124.25	120.30
1	E	809	ARG	NE-CZ-NH1	7.89	124.25	120.30
1	H	356	ARG	NE-CZ-NH1	7.88	124.24	120.30
1	O	809	ARG	NE-CZ-NH1	7.88	124.24	120.30
1	B	809	ARG	NE-CZ-NH1	7.88	124.24	120.30
1	I	809	ARG	NE-CZ-NH1	7.87	124.24	120.30
1	N	809	ARG	NE-CZ-NH1	7.87	124.23	120.30
1	F	43	ARG	NE-CZ-NH1	7.86	124.23	120.30
1	A	809	ARG	NE-CZ-NH1	7.85	124.22	120.30
1	K	809	ARG	NE-CZ-NH1	7.85	124.22	120.30
1	F	809	ARG	NE-CZ-NH1	7.84	124.22	120.30
1	J	572	ASP	CB-CG-OD2	-7.83	111.25	118.30
1	P	954	ASP	CB-CG-OD2	-7.83	111.26	118.30
1	M	809	ARG	NE-CZ-NH1	7.82	124.21	120.30
1	H	809	ARG	NE-CZ-NH1	7.82	124.21	120.30
1	G	954	ASP	CB-CG-OD2	-7.81	111.27	118.30
1	I	572	ASP	CB-CG-OD2	-7.80	111.28	118.30
1	H	954	ASP	CB-CG-OD2	-7.80	111.28	118.30
1	L	572	ASP	CB-CG-OD2	-7.80	111.28	118.30
1	K	954	ASP	CB-CG-OD2	-7.80	111.28	118.30
1	M	572	ASP	CB-CG-OD2	-7.80	111.28	118.30
1	A	954	ASP	CB-CG-OD2	-7.80	111.28	118.30
1	B	572	ASP	CB-CG-OD2	-7.79	111.29	118.30
1	J	809	ARG	NE-CZ-NH1	7.79	124.20	120.30
1	G	572	ASP	CB-CG-OD2	-7.79	111.29	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	572	ASP	CB-CG-OD2	-7.79	111.29	118.30
1	C	954	ASP	CB-CG-OD2	-7.78	111.30	118.30
1	K	572	ASP	CB-CG-OD2	-7.78	111.30	118.30
1	L	809	ARG	NE-CZ-NH1	7.78	124.19	120.30
1	L	954	ASP	CB-CG-OD2	-7.78	111.30	118.30
1	N	954	ASP	CB-CG-OD2	-7.78	111.30	118.30
1	A	572	ASP	CB-CG-OD2	-7.77	111.30	118.30
1	E	954	ASP	CB-CG-OD2	-7.77	111.31	118.30
1	J	954	ASP	CB-CG-OD2	-7.77	111.31	118.30
1	D	572	ASP	CB-CG-OD2	-7.77	111.31	118.30
1	P	809	ARG	NE-CZ-NH1	7.77	124.19	120.30
1	F	954	ASP	CB-CG-OD2	-7.76	111.31	118.30
1	I	954	ASP	CB-CG-OD2	-7.76	111.31	118.30
1	O	954	ASP	CB-CG-OD2	-7.76	111.31	118.30
1	F	572	ASP	CB-CG-OD2	-7.76	111.31	118.30
1	M	954	ASP	CB-CG-OD2	-7.76	111.31	118.30
1	B	954	ASP	CB-CG-OD2	-7.75	111.33	118.30
1	O	572	ASP	CB-CG-OD2	-7.75	111.33	118.30
1	H	572	ASP	CB-CG-OD2	-7.74	111.33	118.30
1	E	572	ASP	CB-CG-OD2	-7.74	111.33	118.30
1	N	572	ASP	CB-CG-OD2	-7.74	111.33	118.30
1	C	572	ASP	CB-CG-OD2	-7.73	111.34	118.30
1	D	954	ASP	CB-CG-OD2	-7.73	111.34	118.30
1	M	46	ARG	C-N-CD	-7.72	103.62	120.60
1	J	46	ARG	C-N-CD	-7.72	103.62	120.60
1	O	46	ARG	C-N-CD	-7.72	103.62	120.60
1	L	46	ARG	C-N-CD	-7.71	103.63	120.60
1	I	46	ARG	C-N-CD	-7.71	103.64	120.60
1	C	46	ARG	C-N-CD	-7.71	103.65	120.60
1	H	46	ARG	C-N-CD	-7.71	103.65	120.60
1	A	46	ARG	C-N-CD	-7.70	103.65	120.60
1	E	46	ARG	C-N-CD	-7.70	103.66	120.60
1	C	210	ARG	CD-NE-CZ	7.70	134.38	123.60
1	P	46	ARG	C-N-CD	-7.70	103.66	120.60
1	B	46	ARG	C-N-CD	-7.70	103.67	120.60
1	D	46	ARG	C-N-CD	-7.69	103.67	120.60
1	G	46	ARG	C-N-CD	-7.69	103.67	120.60
1	B	210	ARG	CD-NE-CZ	7.69	134.37	123.60
1	N	46	ARG	C-N-CD	-7.69	103.69	120.60
1	K	46	ARG	C-N-CD	-7.69	103.69	120.60
1	H	210	ARG	CD-NE-CZ	7.69	134.36	123.60
1	F	210	ARG	CD-NE-CZ	7.68	134.35	123.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	46	ARG	C-N-CD	-7.68	103.70	120.60
1	I	210	ARG	CD-NE-CZ	7.68	134.35	123.60
1	G	210	ARG	CD-NE-CZ	7.67	134.34	123.60
1	K	210	ARG	CD-NE-CZ	7.67	134.34	123.60
1	O	210	ARG	CD-NE-CZ	7.67	134.34	123.60
1	N	210	ARG	CD-NE-CZ	7.67	134.33	123.60
1	A	210	ARG	CD-NE-CZ	7.66	134.33	123.60
1	L	210	ARG	CD-NE-CZ	7.66	134.33	123.60
1	E	210	ARG	CD-NE-CZ	7.66	134.33	123.60
1	P	210	ARG	CD-NE-CZ	7.66	134.32	123.60
1	M	210	ARG	CD-NE-CZ	7.66	134.32	123.60
1	D	210	ARG	CD-NE-CZ	7.65	134.31	123.60
1	J	210	ARG	CD-NE-CZ	7.65	134.31	123.60
1	M	997	ASP	CB-CG-OD2	-7.48	111.57	118.30
1	P	997	ASP	CB-CG-OD2	-7.48	111.57	118.30
1	N	997	ASP	CB-CG-OD2	-7.47	111.58	118.30
1	I	997	ASP	CB-CG-OD2	-7.46	111.58	118.30
1	L	997	ASP	CB-CG-OD2	-7.46	111.58	118.30
1	H	997	ASP	CB-CG-OD2	-7.46	111.59	118.30
1	E	997	ASP	CB-CG-OD2	-7.46	111.59	118.30
1	A	997	ASP	CB-CG-OD2	-7.44	111.61	118.30
1	B	997	ASP	CB-CG-OD2	-7.43	111.61	118.30
1	F	997	ASP	CB-CG-OD2	-7.43	111.61	118.30
1	O	997	ASP	CB-CG-OD2	-7.42	111.62	118.30
1	G	997	ASP	CB-CG-OD2	-7.42	111.62	118.30
1	C	997	ASP	CB-CG-OD2	-7.42	111.62	118.30
1	D	997	ASP	CB-CG-OD2	-7.41	111.63	118.30
1	K	997	ASP	CB-CG-OD2	-7.41	111.64	118.30
1	J	997	ASP	CB-CG-OD2	-7.39	111.65	118.30
1	E	769	TRP	CB-CA-C	-7.33	95.74	110.40
1	F	769	TRP	CB-CA-C	-7.33	95.74	110.40
1	C	769	TRP	CB-CA-C	-7.33	95.74	110.40
1	J	769	TRP	CB-CA-C	-7.33	95.75	110.40
1	L	769	TRP	CB-CA-C	-7.32	95.75	110.40
1	A	769	TRP	CB-CA-C	-7.32	95.76	110.40
1	G	769	TRP	CB-CA-C	-7.32	95.76	110.40
1	B	769	TRP	CB-CA-C	-7.31	95.78	110.40
1	I	769	TRP	CB-CA-C	-7.31	95.78	110.40
1	N	769	TRP	CB-CA-C	-7.31	95.78	110.40
1	M	769	TRP	CB-CA-C	-7.31	95.78	110.40
1	K	769	TRP	CB-CA-C	-7.31	95.78	110.40
1	P	769	TRP	CB-CA-C	-7.31	95.78	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	769	TRP	CB-CA-C	-7.30	95.79	110.40
1	O	769	TRP	CB-CA-C	-7.30	95.79	110.40
1	D	769	TRP	CB-CA-C	-7.30	95.80	110.40
1	E	130	ASP	CB-CG-OD2	-7.30	111.73	118.30
1	O	130	ASP	CB-CG-OD2	-7.29	111.74	118.30
1	K	130	ASP	CB-CG-OD2	-7.29	111.74	118.30
1	L	130	ASP	CB-CG-OD2	-7.29	111.74	118.30
1	H	832	ASP	CB-CG-OD2	-7.29	111.74	118.30
1	O	832	ASP	CB-CG-OD2	-7.29	111.74	118.30
1	B	130	ASP	CB-CG-OD2	-7.28	111.75	118.30
1	C	832	ASP	CB-CG-OD2	-7.28	111.75	118.30
1	A	130	ASP	CB-CG-OD2	-7.28	111.75	118.30
1	D	130	ASP	CB-CG-OD2	-7.28	111.75	118.30
1	I	130	ASP	CB-CG-OD2	-7.28	111.75	118.30
1	N	832	ASP	CB-CG-OD2	-7.28	111.75	118.30
1	P	832	ASP	CB-CG-OD2	-7.27	111.75	118.30
1	A	832	ASP	CB-CG-OD2	-7.27	111.76	118.30
1	K	832	ASP	CB-CG-OD2	-7.27	111.76	118.30
1	F	802	ASP	CB-CG-OD2	-7.26	111.76	118.30
1	J	130	ASP	CB-CG-OD2	-7.26	111.76	118.30
1	B	832	ASP	CB-CG-OD2	-7.26	111.77	118.30
1	F	832	ASP	CB-CG-OD2	-7.26	111.77	118.30
1	J	832	ASP	CB-CG-OD2	-7.26	111.77	118.30
1	C	802	ASP	CB-CG-OD2	-7.26	111.77	118.30
1	H	802	ASP	CB-CG-OD2	-7.26	111.77	118.30
1	L	832	ASP	CB-CG-OD2	-7.25	111.77	118.30
1	G	832	ASP	CB-CG-OD2	-7.25	111.77	118.30
1	O	802	ASP	CB-CG-OD2	-7.25	111.77	118.30
1	G	130	ASP	CB-CG-OD2	-7.25	111.77	118.30
1	J	473	ARG	NE-CZ-NH1	7.25	123.93	120.30
1	N	802	ASP	CB-CG-OD2	-7.25	111.78	118.30
1	H	130	ASP	CB-CG-OD2	-7.25	111.78	118.30
1	J	802	ASP	CB-CG-OD2	-7.25	111.78	118.30
1	P	130	ASP	CB-CG-OD2	-7.25	111.78	118.30
1	E	832	ASP	CB-CG-OD2	-7.24	111.78	118.30
1	M	832	ASP	CB-CG-OD2	-7.24	111.78	118.30
1	N	473	ARG	NE-CZ-NH1	7.24	123.92	120.30
1	N	130	ASP	CB-CG-OD2	-7.24	111.78	118.30
1	K	802	ASP	CB-CG-OD2	-7.24	111.78	118.30
1	G	802	ASP	CB-CG-OD2	-7.23	111.80	118.30
1	L	802	ASP	CB-CG-OD2	-7.23	111.79	118.30
1	P	802	ASP	CB-CG-OD2	-7.23	111.80	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	130	ASP	CB-CG-OD2	-7.23	111.80	118.30
1	I	802	ASP	CB-CG-OD2	-7.22	111.80	118.30
1	D	832	ASP	CB-CG-OD2	-7.22	111.81	118.30
1	M	130	ASP	CB-CG-OD2	-7.22	111.81	118.30
1	B	802	ASP	CB-CG-OD2	-7.21	111.81	118.30
1	K	473	ARG	NE-CZ-NH1	7.21	123.91	120.30
1	I	832	ASP	CB-CG-OD2	-7.21	111.81	118.30
1	C	473	ARG	NE-CZ-NH1	7.21	123.90	120.30
1	A	802	ASP	CB-CG-OD2	-7.21	111.81	118.30
1	D	802	ASP	CB-CG-OD2	-7.20	111.82	118.30
1	M	199	ASP	CB-CG-OD2	-7.20	111.82	118.30
1	E	802	ASP	CB-CG-OD2	-7.20	111.82	118.30
1	N	13	ARG	NE-CZ-NH1	7.20	123.90	120.30
1	C	130	ASP	CB-CG-OD2	-7.19	111.83	118.30
1	H	473	ARG	NE-CZ-NH1	7.19	123.90	120.30
1	M	802	ASP	CB-CG-OD2	-7.19	111.83	118.30
1	E	199	ASP	CB-CG-OD2	-7.19	111.83	118.30
1	O	13	ARG	NE-CZ-NH1	7.19	123.89	120.30
1	B	13	ARG	NE-CZ-NH1	7.19	123.89	120.30
1	F	473	ARG	NE-CZ-NH1	7.19	123.89	120.30
1	G	199	ASP	CB-CG-OD2	-7.18	111.84	118.30
1	O	199	ASP	CB-CG-OD2	-7.17	111.85	118.30
1	K	199	ASP	CB-CG-OD2	-7.17	111.85	118.30
1	G	13	ARG	NE-CZ-NH1	7.16	123.88	120.30
1	D	473	ARG	NE-CZ-NH1	7.16	123.88	120.30
1	F	13	ARG	NE-CZ-NH1	7.16	123.88	120.30
1	K	497	ASP	CB-CG-OD2	-7.16	111.86	118.30
1	M	13	ARG	NE-CZ-NH1	7.16	123.88	120.30
1	C	199	ASP	CB-CG-OD2	-7.16	111.86	118.30
1	D	13	ARG	NE-CZ-NH1	7.16	123.88	120.30
1	I	13	ARG	NE-CZ-NH1	7.16	123.88	120.30
1	I	473	ARG	NE-CZ-NH1	7.16	123.88	120.30
1	B	199	ASP	CB-CG-OD2	-7.15	111.86	118.30
1	H	199	ASP	CB-CG-OD2	-7.15	111.86	118.30
1	J	13	ARG	NE-CZ-NH1	7.15	123.87	120.30
1	N	199	ASP	CB-CG-OD2	-7.15	111.87	118.30
1	L	473	ARG	NE-CZ-NH1	7.15	123.87	120.30
1	A	199	ASP	CB-CG-OD2	-7.14	111.87	118.30
1	K	13	ARG	NE-CZ-NH1	7.14	123.87	120.30
1	A	473	ARG	NE-CZ-NH1	7.14	123.87	120.30
1	L	199	ASP	CB-CG-OD2	-7.14	111.87	118.30
1	I	199	ASP	CB-CG-OD2	-7.14	111.88	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	473	ARG	NE-CZ-NH1	7.14	123.87	120.30
1	O	473	ARG	NE-CZ-NH1	7.14	123.87	120.30
1	D	199	ASP	CB-CG-OD2	-7.13	111.89	118.30
1	G	497	ASP	CB-CG-OD2	-7.13	111.88	118.30
1	C	5	ASP	CB-CG-OD2	-7.13	111.89	118.30
1	P	199	ASP	CB-CG-OD2	-7.13	111.89	118.30
1	L	497	ASP	CB-CG-OD2	-7.12	111.89	118.30
1	E	473	ARG	NE-CZ-NH1	7.12	123.86	120.30
1	J	199	ASP	CB-CG-OD2	-7.12	111.89	118.30
1	A	13	ARG	NE-CZ-NH1	7.12	123.86	120.30
1	L	13	ARG	NE-CZ-NH1	7.12	123.86	120.30
1	D	5	ASP	CB-CG-OD2	-7.12	111.89	118.30
1	C	497	ASP	CB-CG-OD2	-7.11	111.90	118.30
1	F	497	ASP	CB-CG-OD2	-7.11	111.90	118.30
1	H	497	ASP	CB-CG-OD2	-7.11	111.90	118.30
1	E	5	ASP	CB-CG-OD2	-7.11	111.90	118.30
1	I	497	ASP	CB-CG-OD2	-7.11	111.90	118.30
1	B	473	ARG	NE-CZ-NH1	7.11	123.85	120.30
1	E	497	ASP	CB-CG-OD2	-7.11	111.90	118.30
1	F	199	ASP	CB-CG-OD2	-7.10	111.91	118.30
1	E	13	ARG	NE-CZ-NH1	7.10	123.85	120.30
1	G	5	ASP	CB-CG-OD2	-7.10	111.91	118.30
1	M	497	ASP	CB-CG-OD2	-7.09	111.92	118.30
1	H	5	ASP	CB-CG-OD2	-7.09	111.92	118.30
1	B	497	ASP	CB-CG-OD2	-7.09	111.92	118.30
1	G	473	ARG	NE-CZ-NH1	7.08	123.84	120.30
1	O	497	ASP	CB-CG-OD2	-7.08	111.93	118.30
1	C	13	ARG	NE-CZ-NH1	7.08	123.84	120.30
1	A	497	ASP	CB-CG-OD2	-7.08	111.93	118.30
1	P	5	ASP	CB-CG-OD2	-7.08	111.93	118.30
1	F	5	ASP	CB-CG-OD2	-7.07	111.94	118.30
1	P	473	ARG	NE-CZ-NH1	7.07	123.83	120.30
1	A	5	ASP	CB-CG-OD2	-7.07	111.94	118.30
1	O	5	ASP	CB-CG-OD2	-7.06	111.94	118.30
1	J	497	ASP	CB-CG-OD2	-7.06	111.94	118.30
1	H	13	ARG	NE-CZ-NH1	7.06	123.83	120.30
1	I	5	ASP	CB-CG-OD2	-7.06	111.95	118.30
1	B	5	ASP	CB-CG-OD2	-7.05	111.95	118.30
1	D	497	ASP	CB-CG-OD2	-7.05	111.95	118.30
1	L	5	ASP	CB-CG-OD2	-7.05	111.95	118.30
1	P	13	ARG	NE-CZ-NH1	7.05	123.83	120.30
1	J	5	ASP	CB-CG-OD2	-7.05	111.96	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	5	ASP	CB-CG-OD2	-7.04	111.96	118.30
1	M	5	ASP	CB-CG-OD2	-7.04	111.96	118.30
1	N	497	ASP	CB-CG-OD2	-7.04	111.97	118.30
1	N	5	ASP	CB-CG-OD2	-7.03	111.98	118.30
1	P	497	ASP	CB-CG-OD2	-7.03	111.98	118.30
1	P	599	ARG	NE-CZ-NH2	-7.02	116.79	120.30
1	D	599	ARG	NE-CZ-NH2	-7.00	116.80	120.30
1	J	96	ASP	CB-CG-OD1	6.99	124.59	118.30
1	B	96	ASP	CB-CG-OD1	6.99	124.59	118.30
1	L	96	ASP	CB-CG-OD1	6.98	124.59	118.30
1	C	96	ASP	CB-CG-OD1	6.97	124.57	118.30
1	K	509	ASP	CB-CG-OD1	6.97	124.57	118.30
1	I	96	ASP	CB-CG-OD1	6.96	124.57	118.30
1	B	509	ASP	CB-CG-OD1	6.95	124.56	118.30
1	G	599	ARG	NE-CZ-NH2	-6.95	116.83	120.30
1	D	509	ASP	CB-CG-OD1	6.94	124.55	118.30
1	G	776	LEU	CB-CA-C	-6.94	97.01	110.20
1	M	96	ASP	CB-CG-OD1	6.94	124.55	118.30
1	M	599	ARG	NE-CZ-NH2	-6.94	116.83	120.30
1	K	96	ASP	CB-CG-OD1	6.94	124.55	118.30
1	C	776	LEU	CB-CA-C	-6.94	97.02	110.20
1	G	96	ASP	CB-CG-OD1	6.94	124.55	118.30
1	O	96	ASP	CB-CG-OD1	6.94	124.55	118.30
1	F	96	ASP	CB-CG-OD1	6.94	124.54	118.30
1	L	776	LEU	CB-CA-C	-6.93	97.03	110.20
1	B	776	LEU	CB-CA-C	-6.93	97.03	110.20
1	H	96	ASP	CB-CG-OD1	6.93	124.54	118.30
1	E	776	LEU	CB-CA-C	-6.93	97.03	110.20
1	I	776	LEU	CB-CA-C	-6.93	97.03	110.20
1	J	509	ASP	CB-CG-OD1	6.93	124.54	118.30
1	J	599	ARG	NE-CZ-NH1	6.93	123.76	120.30
1	H	776	LEU	CB-CA-C	-6.93	97.04	110.20
1	A	776	LEU	CB-CA-C	-6.93	97.04	110.20
1	E	96	ASP	CB-CG-OD1	6.92	124.53	118.30
1	O	509	ASP	CB-CG-OD1	6.92	124.53	118.30
1	A	509	ASP	CB-CG-OD1	6.92	124.53	118.30
1	N	96	ASP	CB-CG-OD1	6.92	124.53	118.30
1	N	599	ARG	NE-CZ-NH2	-6.92	116.84	120.30
1	D	776	LEU	CB-CA-C	-6.92	97.06	110.20
1	A	96	ASP	CB-CG-OD1	6.91	124.52	118.30
1	K	776	LEU	CB-CA-C	-6.91	97.07	110.20
1	L	509	ASP	CB-CG-OD1	6.91	124.52	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	776	LEU	CB-CA-C	-6.91	97.07	110.20
1	P	776	LEU	CB-CA-C	-6.91	97.07	110.20
1	D	96	ASP	CB-CG-OD1	6.91	124.52	118.30
1	O	776	LEU	CB-CA-C	-6.91	97.08	110.20
1	J	776	LEU	CB-CA-C	-6.91	97.08	110.20
1	P	427	THR	CA-CB-CG2	-6.91	102.73	112.40
1	P	509	ASP	CB-CG-OD1	6.91	124.52	118.30
1	N	509	ASP	CB-CG-OD1	6.90	124.51	118.30
1	N	569	ASP	CB-CG-OD2	-6.90	112.09	118.30
1	B	427	THR	CA-CB-CG2	-6.90	102.74	112.40
1	M	776	LEU	CB-CA-C	-6.90	97.10	110.20
1	P	96	ASP	CB-CG-OD1	6.90	124.51	118.30
1	F	776	LEU	CB-CA-C	-6.90	97.10	110.20
1	A	599	ARG	NE-CZ-NH2	-6.89	116.85	120.30
1	C	569	ASP	CB-CG-OD2	-6.89	112.09	118.30
1	K	427	THR	CA-CB-CG2	-6.89	102.75	112.40
1	D	599	ARG	NE-CZ-NH1	6.89	123.75	120.30
1	F	427	THR	CA-CB-CG2	-6.89	102.75	112.40
1	F	509	ASP	CB-CG-OD1	6.89	124.50	118.30
1	I	509	ASP	CB-CG-OD1	6.89	124.50	118.30
1	E	569	ASP	CB-CG-OD2	-6.89	112.10	118.30
1	D	427	THR	CA-CB-CG2	-6.89	102.76	112.40
1	G	599	ARG	NE-CZ-NH1	6.89	123.74	120.30
1	M	509	ASP	CB-CG-OD1	6.89	124.50	118.30
1	P	599	ARG	NE-CZ-NH1	6.88	123.74	120.30
1	N	427	THR	CA-CB-CG2	-6.88	102.76	112.40
1	I	427	THR	CA-CB-CG2	-6.88	102.77	112.40
1	G	427	THR	CA-CB-CG2	-6.88	102.77	112.40
1	G	509	ASP	CB-CG-OD1	6.88	124.49	118.30
1	O	599	ARG	NE-CZ-NH2	-6.88	116.86	120.30
1	A	427	THR	CA-CB-CG2	-6.88	102.77	112.40
1	H	427	THR	CA-CB-CG2	-6.88	102.77	112.40
1	J	427	THR	CA-CB-CG2	-6.88	102.77	112.40
1	H	509	ASP	CB-CG-OD1	6.87	124.49	118.30
1	K	599	ARG	NE-CZ-NH2	-6.87	116.86	120.30
1	O	427	THR	CA-CB-CG2	-6.87	102.78	112.40
1	B	569	ASP	CB-CG-OD2	-6.87	112.11	118.30
1	C	509	ASP	CB-CG-OD1	6.87	124.48	118.30
1	E	509	ASP	CB-CG-OD1	6.87	124.48	118.30
1	O	599	ARG	NE-CZ-NH1	6.87	123.74	120.30
1	C	427	THR	CA-CB-CG2	-6.87	102.78	112.40
1	M	599	ARG	NE-CZ-NH1	6.87	123.73	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	234	ASP	CB-CG-OD2	-6.87	112.12	118.30
1	H	569	ASP	CB-CG-OD2	-6.86	112.12	118.30
1	D	569	ASP	CB-CG-OD2	-6.86	112.12	118.30
1	L	427	THR	CA-CB-CG2	-6.86	102.80	112.40
1	F	599	ARG	NE-CZ-NH1	6.86	123.73	120.30
1	G	569	ASP	CB-CG-OD2	-6.86	112.13	118.30
1	M	427	THR	CA-CB-CG2	-6.86	102.80	112.40
1	A	234	ASP	CB-CG-OD2	-6.86	112.13	118.30
1	L	599	ARG	NE-CZ-NH2	-6.86	116.87	120.30
1	O	234	ASP	CB-CG-OD2	-6.85	112.13	118.30
1	O	569	ASP	CB-CG-OD2	-6.85	112.13	118.30
1	C	599	ARG	NE-CZ-NH2	-6.85	116.88	120.30
1	L	234	ASP	CB-CG-OD2	-6.85	112.14	118.30
1	A	569	ASP	CB-CG-OD2	-6.84	112.14	118.30
1	E	427	THR	CA-CB-CG2	-6.84	102.82	112.40
1	C	599	ARG	NE-CZ-NH1	6.84	123.72	120.30
1	J	234	ASP	CB-CG-OD2	-6.84	112.15	118.30
1	P	569	ASP	CB-CG-OD2	-6.83	112.15	118.30
1	A	599	ARG	NE-CZ-NH1	6.83	123.72	120.30
1	N	234	ASP	CB-CG-OD2	-6.83	112.15	118.30
1	K	569	ASP	CB-CG-OD2	-6.83	112.15	118.30
1	I	569	ASP	CB-CG-OD2	-6.83	112.15	118.30
1	B	599	ARG	NE-CZ-NH1	6.83	123.71	120.30
1	I	599	ARG	NE-CZ-NH1	6.82	123.71	120.30
1	E	234	ASP	CB-CG-OD2	-6.82	112.16	118.30
1	L	569	ASP	CB-CG-OD2	-6.82	112.16	118.30
1	L	599	ARG	NE-CZ-NH1	6.82	123.71	120.30
1	J	599	ARG	NE-CZ-NH2	-6.82	116.89	120.30
1	M	234	ASP	CB-CG-OD2	-6.82	112.17	118.30
1	B	234	ASP	CB-CG-OD2	-6.81	112.17	118.30
1	D	234	ASP	CB-CG-OD2	-6.81	112.17	118.30
1	M	569	ASP	CB-CG-OD2	-6.81	112.17	118.30
1	K	234	ASP	CB-CG-OD2	-6.81	112.17	118.30
1	J	569	ASP	CB-CG-OD2	-6.81	112.17	118.30
1	B	599	ARG	NE-CZ-NH2	-6.80	116.90	120.30
1	F	599	ARG	NE-CZ-NH2	-6.80	116.90	120.30
1	L	45	ASP	CB-CG-OD1	6.80	124.42	118.30
1	F	45	ASP	CB-CG-OD1	6.80	124.42	118.30
1	F	569	ASP	CB-CG-OD2	-6.80	112.18	118.30
1	H	234	ASP	CB-CG-OD2	-6.79	112.18	118.30
1	H	599	ARG	NE-CZ-NH2	-6.79	116.90	120.30
1	P	45	ASP	CB-CG-OD1	6.79	124.41	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	45	ASP	CB-CG-OD1	6.79	124.41	118.30
1	F	234	ASP	CB-CG-OD2	-6.79	112.19	118.30
1	E	599	ARG	NE-CZ-NH1	6.79	123.69	120.30
1	I	234	ASP	CB-CG-OD2	-6.79	112.19	118.30
1	O	45	ASP	CB-CG-OD1	6.79	124.41	118.30
1	P	234	ASP	CB-CG-OD2	-6.79	112.19	118.30
1	E	599	ARG	NE-CZ-NH2	-6.79	116.91	120.30
1	E	45	ASP	CB-CG-OD1	6.78	124.41	118.30
1	M	45	ASP	CB-CG-OD1	6.78	124.41	118.30
1	H	599	ARG	NE-CZ-NH1	6.78	123.69	120.30
1	N	599	ARG	NE-CZ-NH1	6.78	123.69	120.30
1	C	45	ASP	CB-CG-OD1	6.77	124.40	118.30
1	G	45	ASP	CB-CG-OD1	6.77	124.39	118.30
1	C	234	ASP	CB-CG-OD2	-6.77	112.21	118.30
1	H	45	ASP	CB-CG-OD1	6.77	124.39	118.30
1	I	599	ARG	NE-CZ-NH2	-6.76	116.92	120.30
1	A	45	ASP	CB-CG-OD1	6.76	124.38	118.30
1	B	45	ASP	CB-CG-OD1	6.76	124.38	118.30
1	J	45	ASP	CB-CG-OD1	6.76	124.38	118.30
1	D	45	ASP	CB-CG-OD1	6.75	124.38	118.30
1	I	45	ASP	CB-CG-OD1	6.75	124.37	118.30
1	N	45	ASP	CB-CG-OD1	6.74	124.36	118.30
1	K	599	ARG	NE-CZ-NH1	6.73	123.67	120.30
1	C	249	GLU	CA-C-N	-6.72	102.42	117.20
1	O	210	ARG	NE-CZ-NH2	-6.72	116.94	120.30
1	E	249	GLU	CA-C-N	-6.71	102.43	117.20
1	O	249	GLU	CA-C-N	-6.71	102.43	117.20
1	M	249	GLU	CA-C-N	-6.71	102.44	117.20
1	K	249	GLU	CA-C-N	-6.71	102.44	117.20
1	N	249	GLU	CA-C-N	-6.71	102.44	117.20
1	H	249	GLU	CA-C-N	-6.71	102.45	117.20
1	B	249	GLU	CA-C-N	-6.70	102.45	117.20
1	N	210	ARG	NE-CZ-NH2	-6.70	116.95	120.30
1	D	249	GLU	CA-C-N	-6.70	102.47	117.20
1	F	249	GLU	CA-C-N	-6.70	102.46	117.20
1	A	249	GLU	CA-C-N	-6.69	102.48	117.20
1	J	249	GLU	CA-C-N	-6.69	102.48	117.20
1	P	249	GLU	CA-C-N	-6.69	102.49	117.20
1	G	249	GLU	CA-C-N	-6.68	102.50	117.20
1	J	319	ASP	CB-CG-OD2	-6.68	112.29	118.30
1	L	249	GLU	CA-C-N	-6.68	102.50	117.20
1	P	210	ARG	NE-CZ-NH2	-6.68	116.96	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	249	GLU	CA-C-N	-6.68	102.51	117.20
1	L	210	ARG	NE-CZ-NH2	-6.68	116.96	120.30
1	G	594	ASP	CB-CG-OD2	-6.67	112.30	118.30
1	H	594	ASP	CB-CG-OD2	-6.67	112.30	118.30
1	N	594	ASP	CB-CG-OD2	-6.67	112.30	118.30
1	I	319	ASP	CB-CG-OD2	-6.66	112.30	118.30
1	O	594	ASP	CB-CG-OD2	-6.66	112.31	118.30
1	J	594	ASP	CB-CG-OD2	-6.65	112.31	118.30
1	M	319	ASP	CB-CG-OD2	-6.65	112.31	118.30
1	P	594	ASP	CB-CG-OD2	-6.65	112.31	118.30
1	A	594	ASP	CB-CG-OD2	-6.65	112.32	118.30
1	D	210	ARG	NE-CZ-NH2	-6.64	116.98	120.30
1	L	594	ASP	CB-CG-OD2	-6.64	112.32	118.30
1	M	210	ARG	NE-CZ-NH2	-6.64	116.98	120.30
1	N	319	ASP	CB-CG-OD2	-6.64	112.32	118.30
1	C	594	ASP	CB-CG-OD2	-6.64	112.32	118.30
1	E	210	ARG	NE-CZ-NH2	-6.64	116.98	120.30
1	E	319	ASP	CB-CG-OD2	-6.63	112.33	118.30
1	F	594	ASP	CB-CG-OD2	-6.63	112.33	118.30
1	D	319	ASP	CB-CG-OD2	-6.63	112.33	118.30
1	A	210	ARG	NE-CZ-NH2	-6.63	116.98	120.30
1	B	594	ASP	CB-CG-OD2	-6.63	112.33	118.30
1	C	319	ASP	CB-CG-OD2	-6.63	112.33	118.30
1	I	594	ASP	CB-CG-OD2	-6.63	112.33	118.30
1	L	319	ASP	CB-CG-OD2	-6.62	112.34	118.30
1	E	594	ASP	CB-CG-OD2	-6.62	112.34	118.30
1	M	594	ASP	CB-CG-OD2	-6.62	112.34	118.30
1	L	178	ARG	NE-CZ-NH1	6.62	123.61	120.30
1	P	319	ASP	CB-CG-OD2	-6.62	112.34	118.30
1	G	319	ASP	CB-CG-OD2	-6.62	112.34	118.30
1	D	594	ASP	CB-CG-OD2	-6.62	112.35	118.30
1	K	594	ASP	CB-CG-OD2	-6.62	112.35	118.30
1	K	252	ASP	CB-CG-OD2	-6.61	112.35	118.30
1	K	319	ASP	CB-CG-OD2	-6.61	112.35	118.30
1	A	319	ASP	CB-CG-OD2	-6.61	112.35	118.30
1	E	252	ASP	CB-CG-OD2	-6.61	112.35	118.30
1	H	178	ARG	NE-CZ-NH1	6.61	123.60	120.30
1	H	210	ARG	NE-CZ-NH2	-6.60	117.00	120.30
1	D	252	ASP	CB-CG-OD2	-6.60	112.36	118.30
1	N	211	ASP	CB-CG-OD2	-6.60	112.36	118.30
1	B	211	ASP	CB-CG-OD2	-6.60	112.36	118.30
1	F	210	ARG	NE-CZ-NH2	-6.60	117.00	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	211	ASP	CB-CG-OD2	-6.60	112.36	118.30
1	P	252	ASP	CB-CG-OD2	-6.60	112.36	118.30
1	A	252	ASP	CB-CG-OD2	-6.59	112.37	118.30
1	B	319	ASP	CB-CG-OD2	-6.59	112.37	118.30
1	G	210	ARG	NE-CZ-NH2	-6.59	117.00	120.30
1	M	252	ASP	CB-CG-OD2	-6.59	112.37	118.30
1	B	178	ARG	NE-CZ-NH1	6.59	123.59	120.30
1	K	211	ASP	CB-CG-OD2	-6.58	112.37	118.30
1	C	648	ASP	CB-CG-OD2	-6.58	112.38	118.30
1	O	319	ASP	CB-CG-OD2	-6.58	112.38	118.30
1	I	648	ASP	CB-CG-OD2	-6.58	112.38	118.30
1	L	252	ASP	CB-CG-OD2	-6.58	112.38	118.30
1	H	319	ASP	CB-CG-OD2	-6.58	112.38	118.30
1	C	252	ASP	CB-CG-OD2	-6.58	112.38	118.30
1	I	211	ASP	CB-CG-OD2	-6.58	112.38	118.30
1	M	859	ASP	CB-CG-OD1	6.58	124.22	118.30
1	A	211	ASP	CB-CG-OD2	-6.57	112.38	118.30
1	B	210	ARG	NE-CZ-NH2	-6.57	117.01	120.30
1	P	178	ARG	NE-CZ-NH1	6.57	123.59	120.30
1	N	252	ASP	CB-CG-OD2	-6.57	112.39	118.30
1	N	648	ASP	CB-CG-OD2	-6.57	112.39	118.30
1	F	252	ASP	CB-CG-OD2	-6.57	112.39	118.30
1	J	648	ASP	CB-CG-OD2	-6.57	112.39	118.30
1	P	211	ASP	CB-CG-OD2	-6.57	112.39	118.30
1	F	648	ASP	CB-CG-OD2	-6.57	112.39	118.30
1	I	178	ARG	NE-CZ-NH1	6.57	123.58	120.30
1	J	210	ARG	NE-CZ-NH2	-6.57	117.02	120.30
1	O	648	ASP	CB-CG-OD2	-6.57	112.39	118.30
1	F	211	ASP	CB-CG-OD2	-6.56	112.39	118.30
1	F	319	ASP	CB-CG-OD2	-6.56	112.39	118.30
1	K	210	ARG	NE-CZ-NH2	-6.56	117.02	120.30
1	L	648	ASP	CB-CG-OD2	-6.56	112.40	118.30
1	N	411	ASP	CB-CG-OD2	-6.56	112.40	118.30
1	O	211	ASP	CB-CG-OD2	-6.56	112.40	118.30
1	F	859	ASP	CB-CG-OD1	6.56	124.20	118.30
1	P	648	ASP	CB-CG-OD2	-6.55	112.40	118.30
1	G	648	ASP	CB-CG-OD2	-6.55	112.40	118.30
1	K	178	ARG	NE-CZ-NH1	6.55	123.58	120.30
1	B	252	ASP	CB-CG-OD2	-6.55	112.40	118.30
1	M	648	ASP	CB-CG-OD2	-6.55	112.40	118.30
1	E	648	ASP	CB-CG-OD2	-6.55	112.41	118.30
1	G	252	ASP	CB-CG-OD2	-6.55	112.41	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	211	ASP	CB-CG-OD2	-6.55	112.41	118.30
1	O	178	ARG	NE-CZ-NH1	6.55	123.58	120.30
1	K	648	ASP	CB-CG-OD2	-6.55	112.41	118.30
1	O	252	ASP	CB-CG-OD2	-6.55	112.41	118.30
1	G	211	ASP	CB-CG-OD2	-6.55	112.41	118.30
1	H	859	ASP	CB-CG-OD1	6.55	124.19	118.30
1	M	211	ASP	CB-CG-OD2	-6.55	112.41	118.30
1	C	178	ARG	NE-CZ-NH1	6.54	123.57	120.30
1	D	648	ASP	CB-CG-OD2	-6.54	112.41	118.30
1	H	648	ASP	CB-CG-OD2	-6.54	112.41	118.30
1	I	411	ASP	CB-CG-OD2	-6.54	112.41	118.30
1	D	211	ASP	CB-CG-OD2	-6.54	112.41	118.30
1	J	252	ASP	CB-CG-OD2	-6.54	112.41	118.30
1	L	211	ASP	CB-CG-OD2	-6.54	112.41	118.30
1	D	45	ASP	CB-CG-OD2	-6.54	112.42	118.30
1	H	252	ASP	CB-CG-OD2	-6.54	112.42	118.30
1	N	178	ARG	NE-CZ-NH1	6.54	123.57	120.30
1	C	859	ASP	CB-CG-OD1	6.54	124.18	118.30
1	F	411	ASP	CB-CG-OD2	-6.54	112.42	118.30
1	J	411	ASP	CB-CG-OD2	-6.54	112.42	118.30
1	I	252	ASP	CB-CG-OD2	-6.53	112.42	118.30
1	C	211	ASP	CB-CG-OD2	-6.53	112.42	118.30
1	E	211	ASP	CB-CG-OD2	-6.53	112.42	118.30
1	G	411	ASP	CB-CG-OD2	-6.53	112.42	118.30
1	E	859	ASP	CB-CG-OD1	6.53	124.18	118.30
1	K	411	ASP	CB-CG-OD2	-6.53	112.42	118.30
1	A	178	ARG	NE-CZ-NH1	6.53	123.56	120.30
1	D	178	ARG	NE-CZ-NH1	6.53	123.56	120.30
1	O	859	ASP	CB-CG-OD1	6.52	124.17	118.30
1	E	178	ARG	NE-CZ-NH1	6.52	123.56	120.30
1	K	45	ASP	CB-CG-OD2	-6.52	112.43	118.30
1	N	859	ASP	CB-CG-OD1	6.52	124.17	118.30
1	A	648	ASP	CB-CG-OD2	-6.52	112.43	118.30
1	C	411	ASP	CB-CG-OD2	-6.52	112.44	118.30
1	I	210	ARG	NE-CZ-NH2	-6.52	117.04	120.30
1	J	859	ASP	CB-CG-OD1	6.52	124.17	118.30
1	A	411	ASP	CB-CG-OD2	-6.51	112.44	118.30
1	E	411	ASP	CB-CG-OD2	-6.51	112.44	118.30
1	J	178	ARG	NE-CZ-NH1	6.51	123.56	120.30
1	M	45	ASP	CB-CG-OD2	-6.51	112.44	118.30
1	D	411	ASP	CB-CG-OD2	-6.51	112.44	118.30
1	M	553	TRP	CA-CB-CG	-6.51	101.33	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	411	ASP	CB-CG-OD2	-6.51	112.44	118.30
1	A	859	ASP	CB-CG-OD1	6.51	124.16	118.30
1	B	859	ASP	CB-CG-OD1	6.51	124.16	118.30
1	M	411	ASP	CB-CG-OD2	-6.51	112.44	118.30
1	O	411	ASP	CB-CG-OD2	-6.51	112.44	118.30
1	B	648	ASP	CB-CG-OD2	-6.51	112.44	118.30
1	I	178	ARG	NE-CZ-NH2	-6.51	117.05	120.30
1	P	859	ASP	CB-CG-OD1	6.51	124.16	118.30
1	C	210	ARG	NE-CZ-NH2	-6.50	117.05	120.30
1	I	859	ASP	CB-CG-OD1	6.50	124.15	118.30
1	J	828	ASP	CB-CG-OD2	-6.50	112.45	118.30
1	L	178	ARG	NE-CZ-NH2	-6.50	117.05	120.30
1	B	553	TRP	CA-CB-CG	-6.50	101.35	113.70
1	H	553	TRP	CA-CB-CG	-6.50	101.35	113.70
1	J	553	TRP	CA-CB-CG	-6.50	101.35	113.70
1	D	553	TRP	CA-CB-CG	-6.50	101.36	113.70
1	F	178	ARG	NE-CZ-NH1	6.50	123.55	120.30
1	E	553	TRP	CA-CB-CG	-6.49	101.36	113.70
1	F	553	TRP	CA-CB-CG	-6.49	101.36	113.70
1	G	553	TRP	CA-CB-CG	-6.49	101.36	113.70
1	I	553	TRP	CA-CB-CG	-6.49	101.36	113.70
1	L	411	ASP	CB-CG-OD2	-6.49	112.46	118.30
1	P	553	TRP	CA-CB-CG	-6.49	101.36	113.70
1	C	45	ASP	CB-CG-OD2	-6.49	112.46	118.30
1	F	178	ARG	NE-CZ-NH2	-6.49	117.06	120.30
1	H	411	ASP	CB-CG-OD2	-6.49	112.46	118.30
1	O	553	TRP	CA-CB-CG	-6.49	101.37	113.70
1	C	553	TRP	CA-CB-CG	-6.49	101.37	113.70
1	J	45	ASP	CB-CG-OD2	-6.49	112.46	118.30
1	L	859	ASP	CB-CG-OD1	6.49	124.14	118.30
1	N	553	TRP	CA-CB-CG	-6.49	101.37	113.70
1	B	178	ARG	NE-CZ-NH2	-6.48	117.06	120.30
1	I	828	ASP	CB-CG-OD2	-6.48	112.47	118.30
1	K	553	TRP	CA-CB-CG	-6.48	101.38	113.70
1	A	553	TRP	CA-CB-CG	-6.48	101.38	113.70
1	I	45	ASP	CB-CG-OD2	-6.48	112.47	118.30
1	L	553	TRP	CA-CB-CG	-6.48	101.39	113.70
1	P	45	ASP	CB-CG-OD2	-6.48	112.47	118.30
1	B	45	ASP	CB-CG-OD2	-6.48	112.47	118.30
1	B	411	ASP	CB-CG-OD2	-6.48	112.47	118.30
1	E	178	ARG	NE-CZ-NH2	-6.47	117.06	120.30
1	F	45	ASP	CB-CG-OD2	-6.47	112.47	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	45	ASP	CB-CG-OD2	-6.47	112.47	118.30
1	P	828	ASP	CB-CG-OD2	-6.47	112.47	118.30
1	M	828	ASP	CB-CG-OD2	-6.47	112.48	118.30
1	H	178	ARG	NE-CZ-NH2	-6.47	117.07	120.30
1	C	178	ARG	NE-CZ-NH2	-6.47	117.07	120.30
1	J	178	ARG	NE-CZ-NH2	-6.47	117.07	120.30
1	L	45	ASP	CB-CG-OD2	-6.47	112.48	118.30
1	N	45	ASP	CB-CG-OD2	-6.47	112.48	118.30
1	A	828	ASP	CB-CG-OD2	-6.47	112.48	118.30
1	G	45	ASP	CB-CG-OD2	-6.46	112.48	118.30
1	O	828	ASP	CB-CG-OD2	-6.46	112.48	118.30
1	A	45	ASP	CB-CG-OD2	-6.46	112.49	118.30
1	E	45	ASP	CB-CG-OD2	-6.46	112.49	118.30
1	G	859	ASP	CB-CG-OD1	6.46	124.11	118.30
1	H	45	ASP	CB-CG-OD2	-6.45	112.49	118.30
1	L	828	ASP	CB-CG-OD2	-6.45	112.49	118.30
1	M	178	ARG	NE-CZ-NH2	-6.45	117.08	120.30
1	M	178	ARG	NE-CZ-NH1	6.45	123.53	120.30
1	K	859	ASP	CB-CG-OD1	6.45	124.10	118.30
1	A	178	ARG	NE-CZ-NH2	-6.45	117.08	120.30
1	F	645	ARG	NE-CZ-NH1	6.44	123.52	120.30
1	B	828	ASP	CB-CG-OD2	-6.44	112.50	118.30
1	G	828	ASP	CB-CG-OD2	-6.44	112.50	118.30
1	N	612	THR	N-CA-CB	6.44	122.54	110.30
1	C	828	ASP	CB-CG-OD2	-6.44	112.51	118.30
1	F	828	ASP	CB-CG-OD2	-6.44	112.50	118.30
1	G	178	ARG	NE-CZ-NH1	6.44	123.52	120.30
1	D	828	ASP	CB-CG-OD2	-6.44	112.51	118.30
1	D	859	ASP	CB-CG-OD1	6.43	124.09	118.30
1	H	612	THR	N-CA-CB	6.43	122.52	110.30
1	I	612	THR	N-CA-CB	6.43	122.53	110.30
1	K	612	THR	N-CA-CB	6.43	122.52	110.30
1	D	178	ARG	NE-CZ-NH2	-6.43	117.08	120.30
1	C	612	THR	N-CA-CB	6.43	122.52	110.30
1	J	612	THR	N-CA-CB	6.43	122.52	110.30
1	M	612	THR	N-CA-CB	6.43	122.52	110.30
1	G	612	THR	N-CA-CB	6.43	122.51	110.30
1	H	828	ASP	CB-CG-OD2	-6.43	112.52	118.30
1	K	828	ASP	CB-CG-OD2	-6.43	112.52	118.30
1	K	178	ARG	NE-CZ-NH2	-6.42	117.09	120.30
1	N	828	ASP	CB-CG-OD2	-6.42	112.52	118.30
1	P	612	THR	N-CA-CB	6.42	122.50	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	612	THR	N-CA-CB	6.42	122.50	110.30
1	F	612	THR	N-CA-CB	6.42	122.50	110.30
1	P	178	ARG	NE-CZ-NH2	-6.42	117.09	120.30
1	O	178	ARG	NE-CZ-NH2	-6.42	117.09	120.30
1	B	612	THR	N-CA-CB	6.41	122.48	110.30
1	B	645	ARG	NE-CZ-NH1	6.41	123.51	120.30
1	N	645	ARG	NE-CZ-NH1	6.41	123.51	120.30
1	D	612	THR	N-CA-CB	6.41	122.48	110.30
1	E	612	THR	N-CA-CB	6.41	122.48	110.30
1	L	645	ARG	NE-CZ-NH1	6.41	123.50	120.30
1	O	612	THR	N-CA-CB	6.41	122.47	110.30
1	N	178	ARG	NE-CZ-NH2	-6.40	117.10	120.30
1	D	645	ARG	NE-CZ-NH1	6.40	123.50	120.30
1	K	645	ARG	NE-CZ-NH1	6.40	123.50	120.30
1	L	612	THR	N-CA-CB	6.40	122.46	110.30
1	P	952	ARG	NE-CZ-NH1	6.40	123.50	120.30
1	B	659	ASP	CB-CG-OD1	6.40	124.06	118.30
1	E	828	ASP	CB-CG-OD2	-6.40	112.54	118.30
1	B	952	ARG	NE-CZ-NH1	6.40	123.50	120.30
1	F	952	ARG	NE-CZ-NH1	6.39	123.50	120.30
1	L	659	ASP	CB-CG-OD1	6.39	124.05	118.30
1	N	659	ASP	CB-CG-OD1	6.39	124.05	118.30
1	C	659	ASP	CB-CG-OD1	6.39	124.05	118.30
1	G	178	ARG	NE-CZ-NH2	-6.39	117.11	120.30
1	J	645	ARG	NE-CZ-NH1	6.39	123.49	120.30
1	G	447	ASP	CB-CG-OD2	-6.38	112.56	118.30
1	J	659	ASP	CB-CG-OD1	6.38	124.04	118.30
1	M	659	ASP	CB-CG-OD1	6.38	124.04	118.30
1	N	859	ASP	CB-CG-OD2	-6.38	112.56	118.30
1	O	193	ASP	CB-CG-OD1	6.38	124.04	118.30
1	E	645	ARG	NE-CZ-NH1	6.38	123.49	120.30
1	E	659	ASP	CB-CG-OD1	6.37	124.03	118.30
1	A	645	ARG	NE-CZ-NH1	6.37	123.48	120.30
1	L	193	ASP	CB-CG-OD1	6.37	124.03	118.30
1	F	659	ASP	CB-CG-OD1	6.37	124.03	118.30
1	G	659	ASP	CB-CG-OD1	6.36	124.03	118.30
1	J	952	ARG	NE-CZ-NH1	6.36	123.48	120.30
1	P	859	ASP	CB-CG-OD2	-6.36	112.58	118.30
1	A	659	ASP	CB-CG-OD1	6.35	124.02	118.30
1	B	591	ASP	CB-CG-OD2	-6.35	112.58	118.30
1	D	659	ASP	CB-CG-OD1	6.35	124.02	118.30
1	A	591	ASP	CB-CG-OD2	-6.35	112.59	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	193	ASP	CB-CG-OD1	6.35	124.01	118.30
1	L	859	ASP	CB-CG-OD2	-6.35	112.58	118.30
1	I	591	ASP	CB-CG-OD2	-6.35	112.59	118.30
1	N	193	ASP	CB-CG-OD1	6.35	124.01	118.30
1	B	447	ASP	CB-CG-OD2	-6.34	112.59	118.30
1	H	447	ASP	CB-CG-OD2	-6.34	112.59	118.30
1	H	591	ASP	CB-CG-OD2	-6.34	112.59	118.30
1	M	193	ASP	CB-CG-OD1	6.34	124.01	118.30
1	E	859	ASP	CB-CG-OD2	-6.34	112.59	118.30
1	H	645	ARG	NE-CZ-NH1	6.34	123.47	120.30
1	O	447	ASP	CB-CG-OD2	-6.34	112.59	118.30
1	E	193	ASP	CB-CG-OD1	6.34	124.00	118.30
1	E	447	ASP	CB-CG-OD2	-6.33	112.60	118.30
1	A	193	ASP	CB-CG-OD1	6.33	124.00	118.30
1	D	591	ASP	CB-CG-OD2	-6.33	112.60	118.30
1	P	193	ASP	CB-CG-OD1	6.33	124.00	118.30
1	H	659	ASP	CB-CG-OD1	6.33	124.00	118.30
1	H	859	ASP	CB-CG-OD2	-6.33	112.60	118.30
1	P	659	ASP	CB-CG-OD1	6.33	124.00	118.30
1	F	193	ASP	CB-CG-OD1	6.33	123.99	118.30
1	I	645	ARG	NE-CZ-NH1	6.33	123.46	120.30
1	J	193	ASP	CB-CG-OD1	6.33	123.99	118.30
1	M	447	ASP	CB-CG-OD2	-6.33	112.61	118.30
1	M	952	ARG	NE-CZ-NH1	6.33	123.46	120.30
1	B	193	ASP	CB-CG-OD1	6.32	123.99	118.30
1	C	193	ASP	CB-CG-OD1	6.32	123.99	118.30
1	H	193	ASP	CB-CG-OD1	6.32	123.99	118.30
1	K	447	ASP	CB-CG-OD2	-6.32	112.61	118.30
1	N	447	ASP	CB-CG-OD2	-6.32	112.61	118.30
1	D	193	ASP	CB-CG-OD1	6.32	123.99	118.30
1	G	645	ARG	NE-CZ-NH1	6.32	123.46	120.30
1	F	591	ASP	CB-CG-OD2	-6.32	112.61	118.30
1	B	859	ASP	CB-CG-OD2	-6.32	112.61	118.30
1	G	193	ASP	CB-CG-OD1	6.32	123.99	118.30
1	J	447	ASP	CB-CG-OD2	-6.32	112.61	118.30
1	I	144	ASP	CB-CG-OD2	-6.32	112.61	118.30
1	K	659	ASP	CB-CG-OD1	6.32	123.99	118.30
1	A	447	ASP	CB-CG-OD2	-6.32	112.62	118.30
1	D	447	ASP	CB-CG-OD2	-6.32	112.61	118.30
1	K	144	ASP	CB-CG-OD2	-6.31	112.62	118.30
1	M	645	ARG	NE-CZ-NH1	6.31	123.46	120.30
1	C	591	ASP	CB-CG-OD2	-6.31	112.62	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	659	ASP	CB-CG-OD1	6.31	123.98	118.30
1	M	859	ASP	CB-CG-OD2	-6.31	112.62	118.30
1	C	447	ASP	CB-CG-OD2	-6.30	112.63	118.30
1	E	952	ARG	NE-CZ-NH1	6.30	123.45	120.30
1	I	952	ARG	NE-CZ-NH1	6.30	123.45	120.30
1	L	233	ASP	CB-CG-OD1	6.30	123.97	118.30
1	L	447	ASP	CB-CG-OD2	-6.30	112.62	118.30
1	E	233	ASP	CB-CG-OD1	6.30	123.97	118.30
1	F	859	ASP	CB-CG-OD2	-6.30	112.63	118.30
1	C	645	ARG	NE-CZ-NH1	6.30	123.45	120.30
1	O	591	ASP	CB-CG-OD2	-6.30	112.63	118.30
1	P	869	ASP	CB-CG-OD2	-6.30	112.63	118.30
1	N	591	ASP	CB-CG-OD2	-6.30	112.63	118.30
1	P	233	ASP	CB-CG-OD1	6.30	123.97	118.30
1	C	869	ASP	CB-CG-OD2	-6.30	112.63	118.30
1	I	447	ASP	CB-CG-OD2	-6.30	112.63	118.30
1	I	659	ASP	CB-CG-OD1	6.30	123.97	118.30
1	P	447	ASP	CB-CG-OD2	-6.30	112.63	118.30
1	A	859	ASP	CB-CG-OD2	-6.29	112.64	118.30
1	A	952	ARG	NE-CZ-NH1	6.29	123.45	120.30
1	K	193	ASP	CB-CG-OD1	6.29	123.97	118.30
1	L	591	ASP	CB-CG-OD2	-6.29	112.63	118.30
1	C	952	ARG	NE-CZ-NH1	6.29	123.45	120.30
1	D	952	ARG	NE-CZ-NH1	6.29	123.45	120.30
1	E	591	ASP	CB-CG-OD2	-6.29	112.64	118.30
1	G	952	ARG	NE-CZ-NH1	6.29	123.45	120.30
1	L	144	ASP	CB-CG-OD2	-6.29	112.64	118.30
1	O	645	ARG	NE-CZ-NH1	6.29	123.45	120.30
1	D	859	ASP	CB-CG-OD2	-6.29	112.64	118.30
1	M	591	ASP	CB-CG-OD2	-6.29	112.64	118.30
1	G	144	ASP	CB-CG-OD2	-6.29	112.64	118.30
1	C	859	ASP	CB-CG-OD2	-6.28	112.64	118.30
1	I	859	ASP	CB-CG-OD2	-6.28	112.64	118.30
1	J	591	ASP	CB-CG-OD2	-6.28	112.64	118.30
1	P	645	ARG	NE-CZ-NH1	6.28	123.44	120.30
1	E	144	ASP	CB-CG-OD2	-6.28	112.65	118.30
1	O	859	ASP	CB-CG-OD2	-6.28	112.65	118.30
1	O	144	ASP	CB-CG-OD2	-6.28	112.65	118.30
1	K	591	ASP	CB-CG-OD2	-6.28	112.65	118.30
1	M	869	ASP	CB-CG-OD2	-6.28	112.65	118.30
1	H	869	ASP	CB-CG-OD2	-6.28	112.65	118.30
1	N	952	ARG	NE-CZ-NH1	6.28	123.44	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	233	ASP	CB-CG-OD1	6.27	123.94	118.30
1	P	591	ASP	CB-CG-OD2	-6.27	112.65	118.30
1	K	869	ASP	CB-CG-OD2	-6.27	112.66	118.30
1	J	859	ASP	CB-CG-OD2	-6.27	112.66	118.30
1	K	859	ASP	CB-CG-OD2	-6.27	112.66	118.30
1	P	144	ASP	CB-CG-OD2	-6.27	112.66	118.30
1	F	144	ASP	CB-CG-OD2	-6.27	112.66	118.30
1	G	859	ASP	CB-CG-OD2	-6.27	112.66	118.30
1	L	952	ARG	NE-CZ-NH1	6.27	123.43	120.30
1	O	952	ARG	NE-CZ-NH1	6.27	123.43	120.30
1	P	561	ARG	NE-CZ-NH2	-6.27	117.17	120.30
1	A	144	ASP	CB-CG-OD2	-6.26	112.66	118.30
1	G	591	ASP	CB-CG-OD2	-6.26	112.66	118.30
1	J	869	ASP	CB-CG-OD2	-6.26	112.66	118.30
1	L	954	ASP	CB-CG-OD1	6.26	123.94	118.30
1	H	144	ASP	CB-CG-OD2	-6.26	112.66	118.30
1	O	439	ARG	NE-CZ-NH1	6.26	123.43	120.30
1	B	233	ASP	CB-CG-OD1	6.26	123.94	118.30
1	B	869	ASP	CB-CG-OD2	-6.26	112.67	118.30
1	D	144	ASP	CB-CG-OD2	-6.26	112.67	118.30
1	A	233	ASP	CB-CG-OD1	6.26	123.93	118.30
1	G	954	ASP	CB-CG-OD1	6.26	123.93	118.30
1	M	144	ASP	CB-CG-OD2	-6.26	112.67	118.30
1	I	233	ASP	CB-CG-OD1	6.26	123.93	118.30
1	J	144	ASP	CB-CG-OD2	-6.25	112.67	118.30
1	N	144	ASP	CB-CG-OD2	-6.25	112.67	118.30
1	O	954	ASP	CB-CG-OD1	6.25	123.93	118.30
1	G	287	ASP	CB-CG-OD2	-6.25	112.67	118.30
1	G	869	ASP	CB-CG-OD2	-6.25	112.67	118.30
1	K	954	ASP	CB-CG-OD1	6.25	123.92	118.30
1	O	233	ASP	CB-CG-OD1	6.25	123.92	118.30
1	O	869	ASP	CB-CG-OD2	-6.25	112.68	118.30
1	P	954	ASP	CB-CG-OD1	6.25	123.92	118.30
1	F	233	ASP	CB-CG-OD1	6.25	123.92	118.30
1	G	233	ASP	CB-CG-OD1	6.25	123.92	118.30
1	O	46	ARG	NE-CZ-NH1	6.25	123.42	120.30
1	F	447	ASP	CB-CG-OD2	-6.24	112.68	118.30
1	F	869	ASP	CB-CG-OD2	-6.24	112.68	118.30
1	K	233	ASP	CB-CG-OD1	6.24	123.92	118.30
1	N	233	ASP	CB-CG-OD1	6.24	123.92	118.30
1	L	287	ASP	CB-CG-OD2	-6.24	112.68	118.30
1	L	869	ASP	CB-CG-OD2	-6.24	112.68	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	144	ASP	CB-CG-OD2	-6.24	112.69	118.30
1	C	954	ASP	CB-CG-OD1	6.24	123.92	118.30
1	D	46	ARG	NE-CZ-NH1	6.24	123.42	120.30
1	J	233	ASP	CB-CG-OD1	6.24	123.92	118.30
1	J	439	ARG	NE-CZ-NH1	6.24	123.42	120.30
1	A	869	ASP	CB-CG-OD2	-6.24	112.69	118.30
1	B	144	ASP	CB-CG-OD2	-6.23	112.69	118.30
1	C	531	ARG	NE-CZ-NH1	6.23	123.42	120.30
1	F	954	ASP	CB-CG-OD1	6.23	123.91	118.30
1	G	46	ARG	NE-CZ-NH1	6.23	123.42	120.30
1	H	287	ASP	CB-CG-OD2	-6.23	112.69	118.30
1	J	531	ARG	NE-CZ-NH1	6.23	123.42	120.30
1	O	561	ARG	NE-CZ-NH2	-6.23	117.19	120.30
1	C	233	ASP	CB-CG-OD1	6.22	123.90	118.30
1	O	287	ASP	CB-CG-OD2	-6.22	112.70	118.30
1	E	287	ASP	CB-CG-OD2	-6.22	112.70	118.30
1	N	869	ASP	CB-CG-OD2	-6.22	112.70	118.30
1	B	561	ARG	NE-CZ-NH2	-6.22	117.19	120.30
1	I	869	ASP	CB-CG-OD2	-6.22	112.70	118.30
1	K	46	ARG	NE-CZ-NH1	6.22	123.41	120.30
1	H	233	ASP	CB-CG-OD1	6.22	123.89	118.30
1	H	561	ARG	NE-CZ-NH2	-6.22	117.19	120.30
1	M	287	ASP	CB-CG-OD2	-6.22	112.70	118.30
1	M	954	ASP	CB-CG-OD1	6.22	123.89	118.30
1	E	561	ARG	NE-CZ-NH2	-6.21	117.19	120.30
1	E	869	ASP	CB-CG-OD2	-6.21	112.71	118.30
1	H	952	ARG	NE-CZ-NH1	6.21	123.41	120.30
1	A	954	ASP	CB-CG-OD1	6.21	123.89	118.30
1	J	287	ASP	CB-CG-OD2	-6.21	112.71	118.30
1	K	938	ARG	N-CA-CB	6.21	121.78	110.60
1	D	531	ARG	NE-CZ-NH1	6.21	123.41	120.30
1	I	561	ARG	NE-CZ-NH2	-6.21	117.19	120.30
1	M	233	ASP	CB-CG-OD1	6.21	123.89	118.30
1	B	938	ARG	N-CA-CB	6.21	121.77	110.60
1	E	206	SER	N-CA-CB	6.21	119.81	110.50
1	H	1004	SER	N-CA-CB	6.21	119.81	110.50
1	K	952	ARG	NE-CZ-NH1	6.21	123.40	120.30
1	D	869	ASP	CB-CG-OD2	-6.20	112.72	118.30
1	O	206	SER	N-CA-CB	6.20	119.80	110.50
1	E	938	ARG	N-CA-CB	6.20	121.76	110.60
1	F	938	ARG	N-CA-CB	6.20	121.76	110.60
1	M	938	ARG	N-CA-CB	6.20	121.76	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	954	ASP	CB-CG-OD1	6.20	123.88	118.30
1	J	1004	SER	N-CA-CB	6.20	119.80	110.50
1	O	938	ARG	N-CA-CB	6.20	121.75	110.60
1	A	938	ARG	N-CA-CB	6.20	121.75	110.60
1	C	938	ARG	N-CA-CB	6.20	121.75	110.60
1	D	954	ASP	CB-CG-OD1	6.20	123.88	118.30
1	K	531	ARG	NE-CZ-NH1	6.20	123.40	120.30
1	K	1004	SER	N-CA-CB	6.20	119.79	110.50
1	L	938	ARG	N-CA-CB	6.20	121.75	110.60
1	L	1004	SER	N-CA-CB	6.20	119.79	110.50
1	I	938	ARG	N-CA-CB	6.19	121.75	110.60
1	J	206	SER	N-CA-CB	6.19	119.79	110.50
1	I	531	ARG	NE-CZ-NH1	6.19	123.40	120.30
1	N	954	ASP	CB-CG-OD1	6.19	123.87	118.30
1	B	46	ARG	NE-CZ-NH1	6.19	123.40	120.30
1	B	996	ASP	CB-CG-OD2	-6.19	112.73	118.30
1	F	531	ARG	NE-CZ-NH1	6.19	123.39	120.30
1	I	206	SER	N-CA-CB	6.19	119.79	110.50
1	P	1004	SER	N-CA-CB	6.19	119.79	110.50
1	H	938	ARG	N-CA-CB	6.19	121.74	110.60
1	N	1004	SER	N-CA-CB	6.19	119.78	110.50
1	I	1004	SER	N-CA-CB	6.19	119.78	110.50
1	B	287	ASP	CB-CG-OD2	-6.19	112.73	118.30
1	I	287	ASP	CB-CG-OD2	-6.19	112.73	118.30
1	K	287	ASP	CB-CG-OD2	-6.19	112.73	118.30
1	P	938	ARG	N-CA-CB	6.19	121.73	110.60
1	C	206	SER	N-CA-CB	6.18	119.78	110.50
1	D	287	ASP	CB-CG-OD2	-6.18	112.73	118.30
1	F	287	ASP	CB-CG-OD2	-6.18	112.73	118.30
1	M	561	ARG	NE-CZ-NH2	-6.18	117.21	120.30
1	N	938	ARG	N-CA-CB	6.18	121.73	110.60
1	A	287	ASP	CB-CG-OD2	-6.18	112.74	118.30
1	N	206	SER	N-CA-CB	6.18	119.77	110.50
1	N	46	ARG	NE-CZ-NH1	6.18	123.39	120.30
1	A	1004	SER	N-CA-CB	6.18	119.77	110.50
1	C	1004	SER	N-CA-CB	6.18	119.77	110.50
1	E	954	ASP	CB-CG-OD1	6.18	123.86	118.30
1	E	1004	SER	N-CA-CB	6.18	119.77	110.50
1	F	1004	SER	N-CA-CB	6.18	119.76	110.50
1	G	206	SER	N-CA-CB	6.18	119.77	110.50
1	J	938	ARG	N-CA-CB	6.18	121.72	110.60
1	J	954	ASP	CB-CG-OD1	6.18	123.86	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	206	SER	N-CA-CB	6.17	119.76	110.50
1	L	206	SER	N-CA-CB	6.17	119.76	110.50
1	G	938	ARG	N-CA-CB	6.17	121.71	110.60
1	M	206	SER	N-CA-CB	6.17	119.76	110.50
1	C	439	ARG	NE-CZ-NH1	6.17	123.39	120.30
1	G	561	ARG	NE-CZ-NH2	-6.17	117.22	120.30
1	L	561	ARG	NE-CZ-NH2	-6.17	117.22	120.30
1	P	287	ASP	CB-CG-OD2	-6.17	112.75	118.30
1	B	1004	SER	N-CA-CB	6.17	119.75	110.50
1	H	206	SER	N-CA-CB	6.17	119.75	110.50
1	H	531	ARG	NE-CZ-NH1	6.17	123.38	120.30
1	P	46	ARG	NE-CZ-NH1	6.17	123.38	120.30
1	A	206	SER	N-CA-CB	6.17	119.75	110.50
1	A	439	ARG	NE-CZ-NH1	6.17	123.38	120.30
1	A	996	ASP	CB-CG-OD2	-6.17	112.75	118.30
1	C	46	ARG	NE-CZ-NH1	6.16	123.38	120.30
1	F	439	ARG	NE-CZ-NH1	6.16	123.38	120.30
1	M	46	ARG	NE-CZ-NH1	6.16	123.38	120.30
1	P	206	SER	N-CA-CB	6.16	119.75	110.50
1	P	996	ASP	CB-CG-OD2	-6.16	112.75	118.30
1	B	206	SER	N-CA-CB	6.16	119.74	110.50
1	N	287	ASP	CB-CG-OD2	-6.16	112.75	118.30
1	A	531	ARG	NE-CZ-NH1	6.16	123.38	120.30
1	D	206	SER	N-CA-CB	6.16	119.74	110.50
1	L	439	ARG	NE-CZ-NH1	6.16	123.38	120.30
1	L	996	ASP	CB-CG-OD2	-6.16	112.75	118.30
1	D	938	ARG	N-CA-CB	6.16	121.69	110.60
1	D	1004	SER	N-CA-CB	6.16	119.74	110.50
1	N	531	ARG	NE-CZ-NH1	6.16	123.38	120.30
1	O	1004	SER	N-CA-CB	6.16	119.74	110.50
1	L	531	ARG	NE-CZ-NH1	6.16	123.38	120.30
1	J	996	ASP	CB-CG-OD2	-6.15	112.76	118.30
1	M	531	ARG	NE-CZ-NH1	6.15	123.38	120.30
1	G	1004	SER	N-CA-CB	6.15	119.73	110.50
1	I	954	ASP	CB-CG-OD1	6.15	123.84	118.30
1	O	531	ARG	NE-CZ-NH1	6.15	123.38	120.30
1	A	46	ARG	NE-CZ-NH1	6.15	123.38	120.30
1	L	781	ARG	NE-CZ-NH2	-6.15	117.22	120.30
1	G	439	ARG	NE-CZ-NH1	6.15	123.37	120.30
1	A	781	ARG	NE-CZ-NH2	-6.14	117.23	120.30
1	B	531	ARG	NE-CZ-NH1	6.14	123.37	120.30
1	B	954	ASP	CB-CG-OD1	6.14	123.83	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	46	ARG	NE-CZ-NH1	6.14	123.37	120.30
1	K	439	ARG	NE-CZ-NH1	6.14	123.37	120.30
1	M	1004	SER	N-CA-CB	6.14	119.72	110.50
1	C	996	ASP	CB-CG-OD2	-6.14	112.77	118.30
1	F	206	SER	N-CA-CB	6.14	119.71	110.50
1	G	996	ASP	CB-CG-OD2	-6.14	112.77	118.30
1	J	561	ARG	NE-CZ-NH2	-6.14	117.23	120.30
1	K	996	ASP	CB-CG-OD2	-6.14	112.77	118.30
1	C	287	ASP	CB-CG-OD2	-6.14	112.77	118.30
1	N	996	ASP	CB-CG-OD2	-6.14	112.77	118.30
1	C	781	ARG	NE-CZ-NH2	-6.14	117.23	120.30
1	E	996	ASP	CB-CG-OD2	-6.13	112.78	118.30
1	I	46	ARG	NE-CZ-NH1	6.13	123.37	120.30
1	N	439	ARG	NE-CZ-NH1	6.13	123.37	120.30
1	J	46	ARG	NE-CZ-NH1	6.13	123.37	120.30
1	J	1018	LEU	N-CA-CB	-6.13	98.14	110.40
1	M	996	ASP	CB-CG-OD2	-6.13	112.78	118.30
1	N	781	ARG	NE-CZ-NH2	-6.13	117.23	120.30
1	P	439	ARG	NE-CZ-NH1	6.13	123.37	120.30
1	E	781	ARG	NE-CZ-NH2	-6.13	117.24	120.30
1	F	1018	LEU	N-CA-CB	-6.13	98.15	110.40
1	G	1018	LEU	N-CA-CB	-6.12	98.15	110.40
1	K	781	ARG	NE-CZ-NH2	-6.12	117.24	120.30
1	N	1018	LEU	N-CA-CB	-6.12	98.15	110.40
1	D	1018	LEU	N-CA-CB	-6.12	98.16	110.40
1	E	439	ARG	NE-CZ-NH1	6.12	123.36	120.30
1	D	996	ASP	CB-CG-OD2	-6.12	112.79	118.30
1	D	561	ARG	NE-CZ-NH2	-6.12	117.24	120.30
1	I	996	ASP	CB-CG-OD2	-6.12	112.79	118.30
1	A	561	ARG	NE-CZ-NH2	-6.12	117.24	120.30
1	F	46	ARG	NE-CZ-NH1	6.12	123.36	120.30
1	H	1018	LEU	N-CA-CB	-6.12	98.17	110.40
1	A	1018	LEU	N-CA-CB	-6.12	98.17	110.40
1	L	1018	LEU	N-CA-CB	-6.12	98.17	110.40
1	P	781	ARG	NE-CZ-NH2	-6.12	117.24	120.30
1	P	1018	LEU	N-CA-CB	-6.12	98.17	110.40
1	C	1018	LEU	N-CA-CB	-6.11	98.17	110.40
1	H	781	ARG	NE-CZ-NH2	-6.11	117.24	120.30
1	L	46	ARG	NE-CZ-NH1	6.11	123.36	120.30
1	B	1018	LEU	N-CA-CB	-6.11	98.18	110.40
1	E	1018	LEU	N-CA-CB	-6.11	98.18	110.40
1	I	1018	LEU	N-CA-CB	-6.11	98.18	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	781	ARG	NE-CZ-NH2	-6.11	117.25	120.30
1	K	1018	LEU	N-CA-CB	-6.11	98.18	110.40
1	M	1018	LEU	N-CA-CB	-6.11	98.18	110.40
1	I	439	ARG	NE-CZ-NH1	6.11	123.35	120.30
1	H	46	ARG	NE-CZ-NH1	6.11	123.35	120.30
1	O	996	ASP	CB-CG-OD2	-6.11	112.80	118.30
1	D	439	ARG	NE-CZ-NH1	6.10	123.35	120.30
1	H	996	ASP	CB-CG-OD2	-6.10	112.81	118.30
1	H	439	ARG	NE-CZ-NH1	6.10	123.35	120.30
1	F	996	ASP	CB-CG-OD2	-6.10	112.81	118.30
1	G	531	ARG	NE-CZ-NH1	6.10	123.35	120.30
1	N	561	ARG	NE-CZ-NH2	-6.10	117.25	120.30
1	E	531	ARG	NE-CZ-NH1	6.09	123.35	120.30
1	L	916	ASP	CB-CG-OD1	6.09	123.78	118.30
1	O	1018	LEU	N-CA-CB	-6.09	98.22	110.40
1	J	356	ARG	NE-CZ-NH2	-6.09	117.26	120.30
1	C	561	ARG	NE-CZ-NH2	-6.08	117.26	120.30
1	N	671	ASP	CB-CG-OD2	-6.08	112.82	118.30
1	A	916	ASP	CB-CG-OD1	6.08	123.78	118.30
1	M	439	ARG	NE-CZ-NH1	6.08	123.34	120.30
1	P	531	ARG	NE-CZ-NH1	6.08	123.34	120.30
1	C	13	ARG	NE-CZ-NH2	-6.08	117.26	120.30
1	L	671	ASP	CB-CG-OD2	-6.08	112.83	118.30
1	N	15	ASP	CB-CG-OD2	-6.08	112.83	118.30
1	B	781	ARG	NE-CZ-NH2	-6.07	117.26	120.30
1	L	1006	GLU	CA-CB-CG	-6.07	100.04	113.40
1	F	561	ARG	NE-CZ-NH2	-6.07	117.26	120.30
1	I	781	ARG	NE-CZ-NH2	-6.07	117.26	120.30
1	K	356	ARG	NE-CZ-NH2	-6.07	117.27	120.30
1	F	15	ASP	CB-CG-OD2	-6.07	112.84	118.30
1	K	561	ARG	NE-CZ-NH2	-6.07	117.27	120.30
1	D	356	ARG	NE-CZ-NH2	-6.07	117.27	120.30
1	P	100	TYR	N-CA-CB	6.07	121.52	110.60
1	F	1006	GLU	CA-CB-CG	-6.06	100.06	113.40
1	B	356	ARG	NE-CZ-NH2	-6.06	117.27	120.30
1	I	671	ASP	CB-CG-OD2	-6.06	112.84	118.30
1	J	13	ARG	NE-CZ-NH2	-6.06	117.27	120.30
1	O	100	TYR	N-CA-CB	6.06	121.51	110.60
1	P	1006	GLU	CA-CB-CG	-6.06	100.07	113.40
1	D	13	ARG	NE-CZ-NH2	-6.06	117.27	120.30
1	D	1006	GLU	CA-CB-CG	-6.06	100.07	113.40
1	E	671	ASP	CB-CG-OD2	-6.06	112.85	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	100	TYR	N-CA-CB	6.06	121.50	110.60
1	L	403	ASP	CB-CG-OD2	-6.06	112.85	118.30
1	E	1006	GLU	CA-CB-CG	-6.05	100.08	113.40
1	G	671	ASP	CB-CG-OD2	-6.05	112.85	118.30
1	H	100	TYR	N-CA-CB	6.05	121.50	110.60
1	M	13	ARG	NE-CZ-NH2	-6.05	117.27	120.30
1	N	1006	GLU	CA-CB-CG	-6.05	100.08	113.40
1	P	916	ASP	CB-CG-OD1	6.05	123.75	118.30
1	O	671	ASP	CB-CG-OD2	-6.05	112.85	118.30
1	B	916	ASP	CB-CG-OD1	6.05	123.75	118.30
1	I	916	ASP	CB-CG-OD1	6.05	123.75	118.30
1	O	1006	GLU	CA-CB-CG	-6.05	100.08	113.40
1	A	1006	GLU	CA-CB-CG	-6.05	100.09	113.40
1	B	671	ASP	CB-CG-OD2	-6.05	112.86	118.30
1	I	15	ASP	CB-CG-OD2	-6.05	112.86	118.30
1	J	1006	GLU	CA-CB-CG	-6.05	100.09	113.40
1	M	671	ASP	CB-CG-OD2	-6.05	112.86	118.30
1	A	671	ASP	CB-CG-OD2	-6.05	112.86	118.30
1	K	100	TYR	N-CA-CB	6.05	121.48	110.60
1	K	1006	GLU	CA-CB-CG	-6.05	100.10	113.40
1	M	100	TYR	N-CA-CB	6.05	121.48	110.60
1	M	781	ARG	NE-CZ-NH2	-6.05	117.28	120.30
1	M	1006	GLU	CA-CB-CG	-6.05	100.10	113.40
1	I	356	ARG	NE-CZ-NH2	-6.04	117.28	120.30
1	I	938	ARG	NE-CZ-NH2	-6.04	117.28	120.30
1	B	1006	GLU	CA-CB-CG	-6.04	100.10	113.40
1	C	1006	GLU	CA-CB-CG	-6.04	100.10	113.40
1	E	356	ARG	NE-CZ-NH2	-6.04	117.28	120.30
1	H	671	ASP	CB-CG-OD2	-6.04	112.86	118.30
1	J	100	TYR	N-CA-CB	6.04	121.48	110.60
1	K	671	ASP	CB-CG-OD2	-6.04	112.86	118.30
1	L	15	ASP	CB-CG-OD2	-6.04	112.86	118.30
1	E	15	ASP	CB-CG-OD2	-6.04	112.86	118.30
1	F	356	ARG	NE-CZ-NH2	-6.04	117.28	120.30
1	F	441	THR	CA-CB-CG2	-6.04	103.94	112.40
1	G	781	ARG	NE-CZ-NH2	-6.04	117.28	120.30
1	G	916	ASP	CB-CG-OD1	6.04	123.74	118.30
1	G	1006	GLU	CA-CB-CG	-6.04	100.11	113.40
1	I	1006	GLU	CA-CB-CG	-6.04	100.11	113.40
1	M	15	ASP	CB-CG-OD2	-6.04	112.86	118.30
1	O	916	ASP	CB-CG-OD1	6.04	123.74	118.30
1	A	100	TYR	N-CA-CB	6.04	121.47	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	916	ASP	CB-CG-OD1	6.04	123.74	118.30
1	B	13	ARG	NE-CZ-NH2	-6.04	117.28	120.30
1	B	439	ARG	NE-CZ-NH1	6.04	123.32	120.30
1	E	100	TYR	N-CA-CB	6.04	121.47	110.60
1	F	671	ASP	CB-CG-OD2	-6.04	112.86	118.30
1	L	100	TYR	N-CA-CB	6.04	121.47	110.60
1	D	671	ASP	CB-CG-OD2	-6.04	112.87	118.30
1	G	938	ARG	NE-CZ-NH2	-6.04	117.28	120.30
1	A	13	ARG	NE-CZ-NH2	-6.03	117.28	120.30
1	H	916	ASP	CB-CG-OD1	6.03	123.73	118.30
1	H	1006	GLU	CA-CB-CG	-6.03	100.12	113.40
1	I	13	ARG	NE-CZ-NH2	-6.03	117.28	120.30
1	O	15	ASP	CB-CG-OD2	-6.03	112.87	118.30
1	B	15	ASP	CB-CG-OD2	-6.03	112.87	118.30
1	O	441	THR	CA-CB-CG2	-6.03	103.96	112.40
1	I	100	TYR	N-CA-CB	6.03	121.45	110.60
1	M	403	ASP	CB-CG-OD2	-6.03	112.87	118.30
1	P	671	ASP	CB-CG-OD2	-6.03	112.87	118.30
1	C	671	ASP	CB-CG-OD2	-6.03	112.88	118.30
1	D	100	TYR	N-CA-CB	6.03	121.45	110.60
1	G	441	THR	CA-CB-CG2	-6.03	103.96	112.40
1	I	441	THR	CA-CB-CG2	-6.03	103.96	112.40
1	K	441	THR	CA-CB-CG2	-6.03	103.96	112.40
1	C	916	ASP	CB-CG-OD1	6.03	123.72	118.30
1	D	781	ARG	NE-CZ-NH2	-6.03	117.29	120.30
1	E	916	ASP	CB-CG-OD1	6.03	123.72	118.30
1	F	13	ARG	NE-CZ-NH2	-6.03	117.29	120.30
1	G	403	ASP	CB-CG-OD2	-6.03	112.88	118.30
1	E	403	ASP	CB-CG-OD2	-6.02	112.88	118.30
1	A	15	ASP	CB-CG-OD2	-6.02	112.88	118.30
1	E	441	THR	CA-CB-CG2	-6.02	103.97	112.40
1	D	492	ASP	CB-CG-OD2	-6.02	112.88	118.30
1	G	356	ARG	NE-CZ-NH2	-6.02	117.29	120.30
1	M	916	ASP	CB-CG-OD1	6.02	123.72	118.30
1	O	781	ARG	NE-CZ-NH2	-6.02	117.29	120.30
1	B	100	TYR	N-CA-CB	6.02	121.44	110.60
1	C	100	TYR	N-CA-CB	6.02	121.43	110.60
1	F	938	ARG	NE-CZ-NH2	-6.02	117.29	120.30
1	N	100	TYR	N-CA-CB	6.02	121.43	110.60
1	G	100	TYR	N-CA-CB	6.02	121.43	110.60
1	H	431	ARG	NE-CZ-NH1	6.02	123.31	120.30
1	P	15	ASP	CB-CG-OD2	-6.02	112.88	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	356	ARG	NE-CZ-NH2	-6.01	117.29	120.30
1	N	403	ASP	CB-CG-OD2	-6.01	112.89	118.30
1	J	15	ASP	CB-CG-OD2	-6.01	112.89	118.30
1	L	441	THR	CA-CB-CG2	-6.01	103.98	112.40
1	A	441	THR	CA-CB-CG2	-6.01	103.99	112.40
1	B	403	ASP	CB-CG-OD2	-6.01	112.89	118.30
1	D	441	THR	CA-CB-CG2	-6.01	103.99	112.40
1	M	492	ASP	CB-CG-OD2	-6.01	112.89	118.30
1	N	441	THR	CA-CB-CG2	-6.01	103.99	112.40
1	O	356	ARG	NE-CZ-NH2	-6.01	117.30	120.30
1	N	938	ARG	NE-CZ-NH2	-6.01	117.30	120.30
1	F	201	ASP	CB-CG-OD2	-6.01	112.89	118.30
1	I	411	ASP	CB-CG-OD1	6.00	123.70	118.30
1	P	492	ASP	CB-CG-OD2	-6.00	112.90	118.30
1	A	356	ARG	NE-CZ-NH2	-6.00	117.30	120.30
1	H	15	ASP	CB-CG-OD2	-6.00	112.90	118.30
1	A	403	ASP	CB-CG-OD2	-6.00	112.90	118.30
1	D	201	ASP	CB-CG-OD2	-6.00	112.90	118.30
1	D	403	ASP	CB-CG-OD2	-6.00	112.90	118.30
1	H	441	THR	CA-CB-CG2	-6.00	104.00	112.40
1	B	441	THR	CA-CB-CG2	-6.00	104.00	112.40
1	D	15	ASP	CB-CG-OD2	-6.00	112.90	118.30
1	D	938	ARG	NE-CZ-NH2	-6.00	117.30	120.30
1	J	431	ARG	NE-CZ-NH1	6.00	123.30	120.30
1	J	671	ASP	CB-CG-OD2	-6.00	112.90	118.30
1	M	441	THR	CA-CB-CG2	-6.00	104.00	112.40
1	B	492	ASP	CB-CG-OD2	-6.00	112.90	118.30
1	C	441	THR	CA-CB-CG2	-6.00	104.01	112.40
1	G	13	ARG	NE-CZ-NH2	-6.00	117.30	120.30
1	N	916	ASP	CB-CG-OD1	6.00	123.70	118.30
1	K	15	ASP	CB-CG-OD2	-6.00	112.91	118.30
1	L	938	ARG	NE-CZ-NH2	-5.99	117.30	120.30
1	P	441	THR	CA-CB-CG2	-5.99	104.01	112.40
1	G	15	ASP	CB-CG-OD2	-5.99	112.91	118.30
1	H	492	ASP	CB-CG-OD2	-5.99	112.91	118.30
1	C	492	ASP	CB-CG-OD2	-5.99	112.91	118.30
1	O	13	ARG	NE-CZ-NH2	-5.99	117.31	120.30
1	F	492	ASP	CB-CG-OD2	-5.99	112.91	118.30
1	F	916	ASP	CB-CG-OD1	5.99	123.69	118.30
1	J	938	ARG	NE-CZ-NH2	-5.99	117.31	120.30
1	O	375	ASP	CB-CG-OD2	-5.99	112.91	118.30
1	I	403	ASP	CB-CG-OD2	-5.99	112.91	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	403	ASP	CB-CG-OD2	-5.99	112.91	118.30
1	J	403	ASP	CB-CG-OD2	-5.98	112.91	118.30
1	K	916	ASP	CB-CG-OD1	5.98	123.69	118.30
1	M	356	ARG	NE-CZ-NH2	-5.98	117.31	120.30
1	F	172	ASP	CB-CG-OD2	-5.98	112.92	118.30
1	J	492	ASP	CB-CG-OD2	-5.98	112.92	118.30
1	K	492	ASP	CB-CG-OD2	-5.98	112.92	118.30
1	P	201	ASP	CB-CG-OD2	-5.98	112.92	118.30
1	C	411	ASP	CB-CG-OD1	5.98	123.68	118.30
1	E	13	ARG	NE-CZ-NH2	-5.98	117.31	120.30
1	A	492	ASP	CB-CG-OD2	-5.98	112.92	118.30
1	H	356	ARG	NE-CZ-NH2	-5.98	117.31	120.30
1	P	403	ASP	CB-CG-OD2	-5.98	112.92	118.30
1	G	492	ASP	CB-CG-OD2	-5.98	112.92	118.30
1	F	411	ASP	CB-CG-OD1	5.97	123.68	118.30
1	J	441	THR	CA-CB-CG2	-5.97	104.03	112.40
1	L	13	ARG	NE-CZ-NH2	-5.97	117.31	120.30
1	K	13	ARG	NE-CZ-NH2	-5.97	117.31	120.30
1	A	375	ASP	CB-CG-OD2	-5.97	112.93	118.30
1	H	403	ASP	CB-CG-OD2	-5.97	112.93	118.30
1	C	15	ASP	CB-CG-OD2	-5.97	112.93	118.30
1	C	356	ARG	NE-CZ-NH2	-5.97	117.32	120.30
1	L	201	ASP	CB-CG-OD2	-5.97	112.93	118.30
1	N	492	ASP	CB-CG-OD2	-5.97	112.93	118.30
1	C	938	ARG	NE-CZ-NH2	-5.96	117.32	120.30
1	L	492	ASP	CB-CG-OD2	-5.96	112.93	118.30
1	O	492	ASP	CB-CG-OD2	-5.96	112.93	118.30
1	O	938	ARG	NE-CZ-NH2	-5.96	117.32	120.30
1	K	403	ASP	CB-CG-OD2	-5.96	112.93	118.30
1	I	492	ASP	CB-CG-OD2	-5.96	112.94	118.30
1	M	938	ARG	NE-CZ-NH2	-5.96	117.32	120.30
1	P	356	ARG	NE-CZ-NH2	-5.96	117.32	120.30
1	O	201	ASP	CB-CG-OD2	-5.96	112.94	118.30
1	A	172	ASP	CB-CG-OD2	-5.96	112.94	118.30
1	C	403	ASP	CB-CG-OD2	-5.96	112.94	118.30
1	E	411	ASP	CB-CG-OD1	5.96	123.66	118.30
1	B	938	ARG	NE-CZ-NH2	-5.95	117.32	120.30
1	J	916	ASP	CB-CG-OD1	5.95	123.66	118.30
1	N	13	ARG	NE-CZ-NH2	-5.95	117.32	120.30
1	E	938	ARG	NE-CZ-NH2	-5.95	117.32	120.30
1	I	172	ASP	CB-CG-OD2	-5.95	112.94	118.30
1	J	411	ASP	CB-CG-OD1	5.95	123.66	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	492	ASP	CB-CG-OD2	-5.95	112.94	118.30
1	K	411	ASP	CB-CG-OD1	5.95	123.66	118.30
1	L	411	ASP	CB-CG-OD1	5.95	123.66	118.30
1	M	201	ASP	CB-CG-OD2	-5.95	112.94	118.30
1	D	375	ASP	CB-CG-OD2	-5.95	112.95	118.30
1	P	411	ASP	CB-CG-OD1	5.95	123.65	118.30
1	P	431	ARG	NE-CZ-NH1	5.95	123.27	120.30
1	E	431	ARG	NE-CZ-NH1	5.95	123.27	120.30
1	H	201	ASP	CB-CG-OD2	-5.95	112.95	118.30
1	N	172	ASP	CB-CG-OD2	-5.95	112.95	118.30
1	C	172	ASP	CB-CG-OD2	-5.94	112.95	118.30
1	H	411	ASP	CB-CG-OD1	5.94	123.65	118.30
1	A	411	ASP	CB-CG-OD1	5.94	123.65	118.30
1	E	172	ASP	CB-CG-OD2	-5.94	112.95	118.30
1	P	938	ARG	NE-CZ-NH2	-5.94	117.33	120.30
1	F	403	ASP	CB-CG-OD2	-5.94	112.96	118.30
1	H	172	ASP	CB-CG-OD2	-5.94	112.96	118.30
1	P	375	ASP	CB-CG-OD2	-5.94	112.96	118.30
1	B	172	ASP	CB-CG-OD2	-5.94	112.96	118.30
1	A	201	ASP	CB-CG-OD2	-5.93	112.96	118.30
1	I	201	ASP	CB-CG-OD2	-5.93	112.96	118.30
1	A	431	ARG	NE-CZ-NH1	5.93	123.27	120.30
1	D	411	ASP	CB-CG-OD1	5.93	123.64	118.30
1	K	201	ASP	CB-CG-OD2	-5.93	112.96	118.30
1	O	790	ASP	CB-CG-OD2	-5.93	112.96	118.30
1	N	411	ASP	CB-CG-OD1	5.93	123.64	118.30
1	J	201	ASP	CB-CG-OD2	-5.93	112.97	118.30
1	K	172	ASP	CB-CG-OD2	-5.93	112.97	118.30
1	N	210	ARG	N-CA-CB	5.93	121.27	110.60
1	O	179	ALA	N-CA-CB	5.93	118.40	110.10
1	C	375	ASP	CB-CG-OD2	-5.92	112.97	118.30
1	F	375	ASP	CB-CG-OD2	-5.92	112.97	118.30
1	G	172	ASP	CB-CG-OD2	-5.92	112.97	118.30
1	H	938	ARG	NE-CZ-NH2	-5.92	117.34	120.30
1	I	375	ASP	CB-CG-OD2	-5.92	112.97	118.30
1	E	375	ASP	CB-CG-OD2	-5.92	112.97	118.30
1	F	781	ARG	NE-CZ-NH2	-5.92	117.34	120.30
1	J	210	ARG	N-CA-CB	5.92	121.26	110.60
1	M	375	ASP	CB-CG-OD2	-5.92	112.97	118.30
1	D	172	ASP	CB-CG-OD2	-5.92	112.97	118.30
1	P	179	ALA	N-CA-CB	5.92	118.39	110.10
1	G	411	ASP	CB-CG-OD1	5.92	123.63	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	13	ARG	NE-CZ-NH2	-5.92	117.34	120.30
1	L	172	ASP	CB-CG-OD2	-5.92	112.97	118.30
1	B	201	ASP	CB-CG-OD2	-5.92	112.98	118.30
1	H	772	ASP	CB-CG-OD2	-5.92	112.98	118.30
1	G	201	ASP	CB-CG-OD2	-5.91	112.98	118.30
1	N	201	ASP	CB-CG-OD2	-5.91	112.98	118.30
1	D	772	ASP	CB-CG-OD2	-5.91	112.98	118.30
1	F	210	ARG	N-CA-CB	5.91	121.24	110.60
1	I	52	ARG	NE-CZ-NH1	5.91	123.26	120.30
1	J	772	ASP	CB-CG-OD2	-5.91	112.98	118.30
1	K	431	ARG	NE-CZ-NH1	5.91	123.26	120.30
1	K	938	ARG	NE-CZ-NH2	-5.91	117.34	120.30
1	M	210	ARG	N-CA-CB	5.91	121.24	110.60
1	O	411	ASP	CB-CG-OD1	5.91	123.62	118.30
1	B	431	ARG	NE-CZ-NH1	5.91	123.25	120.30
1	C	201	ASP	CB-CG-OD2	-5.91	112.98	118.30
1	E	201	ASP	CB-CG-OD2	-5.91	112.98	118.30
1	G	210	ARG	N-CA-CB	5.91	121.24	110.60
1	H	375	ASP	CB-CG-OD2	-5.91	112.98	118.30
1	M	411	ASP	CB-CG-OD1	5.91	123.62	118.30
1	G	179	ALA	N-CA-CB	5.91	118.37	110.10
1	A	210	ARG	N-CA-CB	5.90	121.22	110.60
1	C	790	ASP	CB-CG-OD2	-5.90	112.99	118.30
1	L	210	ARG	N-CA-CB	5.90	121.22	110.60
1	M	772	ASP	CB-CG-OD2	-5.90	112.99	118.30
1	E	210	ARG	N-CA-CB	5.90	121.22	110.60
1	F	431	ARG	NE-CZ-NH1	5.90	123.25	120.30
1	O	52	ARG	NE-CZ-NH1	5.90	123.25	120.30
1	B	210	ARG	N-CA-CB	5.90	121.22	110.60
1	D	210	ARG	N-CA-CB	5.90	121.22	110.60
1	G	375	ASP	CB-CG-OD2	-5.90	112.99	118.30
1	H	210	ARG	N-CA-CB	5.90	121.22	110.60
1	L	356	ARG	NE-CZ-NH2	-5.90	117.35	120.30
1	G	772	ASP	CB-CG-OD2	-5.90	112.99	118.30
1	K	179	ALA	N-CA-CB	5.90	118.35	110.10
1	L	790	ASP	CB-CG-OD2	-5.90	112.99	118.30
1	M	172	ASP	CB-CG-OD2	-5.90	112.99	118.30
1	K	210	ARG	N-CA-CB	5.89	121.21	110.60
1	N	772	ASP	CB-CG-OD2	-5.89	112.99	118.30
1	A	772	ASP	CB-CG-OD2	-5.89	113.00	118.30
1	B	375	ASP	CB-CG-OD2	-5.89	113.00	118.30
1	N	375	ASP	CB-CG-OD2	-5.89	113.00	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	411	ASP	CB-CG-OD1	5.89	123.60	118.30
1	G	431	ARG	NE-CZ-NH1	5.89	123.25	120.30
1	A	179	ALA	N-CA-CB	5.89	118.34	110.10
1	B	772	ASP	CB-CG-OD2	-5.89	113.00	118.30
1	F	790	ASP	CB-CG-OD2	-5.89	113.00	118.30
1	I	179	ALA	N-CA-CB	5.89	118.34	110.10
1	P	13	ARG	NE-CZ-NH2	-5.89	117.36	120.30
1	H	52	ARG	NE-CZ-NH1	5.89	123.24	120.30
1	L	375	ASP	CB-CG-OD2	-5.89	113.00	118.30
1	N	179	ALA	N-CA-CB	5.89	118.34	110.10
1	O	210	ARG	N-CA-CB	5.89	121.20	110.60
1	D	179	ALA	N-CA-CB	5.89	118.34	110.10
1	I	210	ARG	N-CA-CB	5.89	121.20	110.60
1	P	52	ARG	NE-CZ-NH1	5.89	123.24	120.30
1	D	431	ARG	NE-CZ-NH1	5.88	123.24	120.30
1	H	790	ASP	CB-CG-OD2	-5.88	113.00	118.30
1	M	179	ALA	N-CA-CB	5.88	118.34	110.10
1	P	210	ARG	N-CA-CB	5.88	121.19	110.60
1	C	210	ARG	N-CA-CB	5.88	121.19	110.60
1	J	179	ALA	N-CA-CB	5.88	118.34	110.10
1	B	179	ALA	N-CA-CB	5.88	118.33	110.10
1	E	772	ASP	CB-CG-OD2	-5.88	113.01	118.30
1	J	172	ASP	CB-CG-OD2	-5.88	113.01	118.30
1	K	375	ASP	CB-CG-OD2	-5.88	113.01	118.30
1	I	790	ASP	CB-CG-OD2	-5.88	113.01	118.30
1	L	179	ALA	N-CA-CB	5.88	118.33	110.10
1	O	172	ASP	CB-CG-OD2	-5.88	113.01	118.30
1	P	172	ASP	CB-CG-OD2	-5.88	113.01	118.30
1	P	772	ASP	CB-CG-OD2	-5.88	113.01	118.30
1	C	179	ALA	N-CA-CB	5.88	118.32	110.10
1	A	938	ARG	NE-CZ-NH2	-5.87	117.36	120.30
1	F	772	ASP	CB-CG-OD2	-5.87	113.01	118.30
1	J	790	ASP	CB-CG-OD2	-5.87	113.01	118.30
1	P	790	ASP	CB-CG-OD2	-5.87	113.02	118.30
1	D	790	ASP	CB-CG-OD2	-5.87	113.02	118.30
1	G	52	ARG	NE-CZ-NH1	5.87	123.24	120.30
1	N	790	ASP	CB-CG-OD2	-5.87	113.02	118.30
1	E	179	ALA	N-CA-CB	5.87	118.32	110.10
1	O	431	ARG	NE-CZ-NH1	5.87	123.23	120.30
1	A	790	ASP	CB-CG-OD2	-5.87	113.02	118.30
1	J	375	ASP	CB-CG-OD2	-5.87	113.02	118.30
1	B	403	ASP	CB-CG-OD1	5.87	123.58	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	179	ALA	N-CA-CB	5.87	118.31	110.10
1	H	179	ALA	N-CA-CB	5.87	118.31	110.10
1	C	431	ARG	NE-CZ-NH1	5.86	123.23	120.30
1	F	248	GLY	C-N-CA	-5.86	107.04	121.70
1	K	772	ASP	CB-CG-OD2	-5.86	113.02	118.30
1	B	790	ASP	CB-CG-OD2	-5.86	113.03	118.30
1	C	199	ASP	CB-CG-OD1	5.86	123.58	118.30
1	D	52	ARG	NE-CZ-NH1	5.86	123.23	120.30
1	D	248	GLY	C-N-CA	-5.86	107.05	121.70
1	D	403	ASP	CB-CG-OD1	5.86	123.58	118.30
1	E	790	ASP	CB-CG-OD2	-5.86	113.03	118.30
1	B	52	ARG	NE-CZ-NH1	5.86	123.23	120.30
1	C	772	ASP	CB-CG-OD2	-5.86	113.03	118.30
1	G	199	ASP	CB-CG-OD1	5.86	123.57	118.30
1	H	248	GLY	C-N-CA	-5.86	107.06	121.70
1	L	52	ARG	NE-CZ-NH1	5.86	123.23	120.30
1	L	431	ARG	NE-CZ-NH1	5.86	123.23	120.30
1	G	248	GLY	C-N-CA	-5.86	107.06	121.70
1	L	248	GLY	C-N-CA	-5.86	107.06	121.70
1	A	248	GLY	C-N-CA	-5.85	107.06	121.70
1	C	52	ARG	NE-CZ-NH1	5.85	123.23	120.30
1	M	248	GLY	C-N-CA	-5.85	107.07	121.70
1	E	248	GLY	C-N-CA	-5.85	107.07	121.70
1	L	403	ASP	CB-CG-OD1	5.85	123.57	118.30
1	P	248	GLY	C-N-CA	-5.85	107.07	121.70
1	B	248	GLY	C-N-CA	-5.85	107.08	121.70
1	C	248	GLY	C-N-CA	-5.85	107.08	121.70
1	E	403	ASP	CB-CG-OD1	5.85	123.56	118.30
1	O	772	ASP	CB-CG-OD2	-5.85	113.04	118.30
1	I	248	GLY	C-N-CA	-5.85	107.08	121.70
1	I	772	ASP	CB-CG-OD2	-5.85	113.04	118.30
1	M	790	ASP	CB-CG-OD2	-5.85	113.04	118.30
1	E	199	ASP	CB-CG-OD1	5.84	123.56	118.30
1	C	598	ASP	CB-CG-OD2	-5.84	113.05	118.30
1	M	52	ARG	NE-CZ-NH1	5.84	123.22	120.30
1	O	248	GLY	C-N-CA	-5.84	107.10	121.70
1	O	403	ASP	CB-CG-OD1	5.84	123.56	118.30
1	L	199	ASP	CB-CG-OD1	5.84	123.55	118.30
1	K	248	GLY	C-N-CA	-5.84	107.11	121.70
1	N	248	GLY	C-N-CA	-5.84	107.11	121.70
1	K	790	ASP	CB-CG-OD2	-5.83	113.05	118.30
1	L	772	ASP	CB-CG-OD2	-5.83	113.05	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	403	ASP	CB-CG-OD1	5.83	123.55	118.30
1	A	403	ASP	CB-CG-OD1	5.83	123.55	118.30
1	I	431	ARG	NE-CZ-NH1	5.83	123.22	120.30
1	K	403	ASP	CB-CG-OD1	5.83	123.55	118.30
1	G	790	ASP	CB-CG-OD2	-5.83	113.05	118.30
1	J	248	GLY	C-N-CA	-5.83	107.12	121.70
1	K	52	ARG	NE-CZ-NH1	5.83	123.21	120.30
1	P	403	ASP	CB-CG-OD1	5.83	123.54	118.30
1	J	403	ASP	CB-CG-OD1	5.82	123.54	118.30
1	M	403	ASP	CB-CG-OD1	5.82	123.54	118.30
1	K	199	ASP	CB-CG-OD1	5.82	123.53	118.30
1	M	199	ASP	CB-CG-OD1	5.82	123.53	118.30
1	N	403	ASP	CB-CG-OD1	5.82	123.53	118.30
1	D	199	ASP	CB-CG-OD1	5.81	123.53	118.30
1	G	403	ASP	CB-CG-OD1	5.81	123.53	118.30
1	H	403	ASP	CB-CG-OD1	5.81	123.53	118.30
1	I	598	ASP	CB-CG-OD2	-5.81	113.07	118.30
1	J	199	ASP	CB-CG-OD1	5.80	123.52	118.30
1	D	598	ASP	CB-CG-OD2	-5.80	113.08	118.30
1	C	403	ASP	CB-CG-OD1	5.80	123.52	118.30
1	F	52	ARG	NE-CZ-NH1	5.80	123.20	120.30
1	H	199	ASP	CB-CG-OD1	5.80	123.52	118.30
1	J	598	ASP	CB-CG-OD2	-5.80	113.08	118.30
1	P	199	ASP	CB-CG-OD1	5.80	123.52	118.30
1	A	199	ASP	CB-CG-OD1	5.79	123.52	118.30
1	M	908	ASP	CB-CG-OD2	-5.79	113.08	118.30
1	B	908	ASP	CB-CG-OD2	-5.79	113.09	118.30
1	H	598	ASP	CB-CG-OD2	-5.79	113.09	118.30
1	L	598	ASP	CB-CG-OD2	-5.79	113.09	118.30
1	N	199	ASP	CB-CG-OD1	5.79	123.51	118.30
1	F	598	ASP	CB-CG-OD2	-5.79	113.09	118.30
1	G	598	ASP	CB-CG-OD2	-5.79	113.09	118.30
1	O	199	ASP	CB-CG-OD1	5.79	123.51	118.30
1	N	52	ARG	NE-CZ-NH1	5.78	123.19	120.30
1	M	431	ARG	NE-CZ-NH1	5.78	123.19	120.30
1	M	363	HIS	CA-CB-CG	-5.78	103.78	113.60
1	F	403	ASP	CB-CG-OD1	5.78	123.50	118.30
1	P	908	ASP	CB-CG-OD2	-5.78	113.10	118.30
1	A	598	ASP	CB-CG-OD2	-5.78	113.10	118.30
1	A	908	ASP	CB-CG-OD2	-5.78	113.10	118.30
1	N	431	ARG	NE-CZ-NH1	5.78	123.19	120.30
1	A	52	ARG	NE-CZ-NH1	5.77	123.19	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	52	ARG	NE-CZ-NH1	5.77	123.19	120.30
1	J	363	HIS	CA-CB-CG	-5.77	103.79	113.60
1	O	363	HIS	CA-CB-CG	-5.77	103.79	113.60
1	E	908	ASP	CB-CG-OD2	-5.77	113.11	118.30
1	G	908	ASP	CB-CG-OD2	-5.77	113.11	118.30
1	N	363	HIS	CA-CB-CG	-5.77	103.79	113.60
1	C	908	ASP	CB-CG-OD2	-5.76	113.11	118.30
1	P	363	HIS	CA-CB-CG	-5.76	103.80	113.60
1	C	363	HIS	CA-CB-CG	-5.76	103.80	113.60
1	D	908	ASP	CB-CG-OD2	-5.76	113.11	118.30
1	N	908	ASP	CB-CG-OD2	-5.76	113.11	118.30
1	O	598	ASP	CB-CG-OD2	-5.76	113.12	118.30
1	D	363	HIS	CA-CB-CG	-5.76	103.81	113.60
1	I	363	HIS	CA-CB-CG	-5.76	103.81	113.60
1	M	598	ASP	CB-CG-OD2	-5.76	113.12	118.30
1	A	363	HIS	CA-CB-CG	-5.76	103.81	113.60
1	F	199	ASP	CB-CG-OD1	5.76	123.48	118.30
1	J	908	ASP	CB-CG-OD2	-5.76	113.12	118.30
1	K	598	ASP	CB-CG-OD2	-5.76	113.12	118.30
1	K	363	HIS	CA-CB-CG	-5.75	103.82	113.60
1	L	363	HIS	CA-CB-CG	-5.75	103.82	113.60
1	B	199	ASP	CB-CG-OD1	5.75	123.48	118.30
1	E	598	ASP	CB-CG-OD2	-5.75	113.12	118.30
1	B	598	ASP	CB-CG-OD2	-5.75	113.12	118.30
1	K	908	ASP	CB-CG-OD2	-5.75	113.12	118.30
1	G	363	HIS	CA-CB-CG	-5.75	103.83	113.60
1	P	598	ASP	CB-CG-OD2	-5.75	113.13	118.30
1	F	363	HIS	CA-CB-CG	-5.74	103.83	113.60
1	E	52	ARG	NE-CZ-NH1	5.74	123.17	120.30
1	N	802	ASP	CB-CG-OD1	5.74	123.47	118.30
1	E	363	HIS	CA-CB-CG	-5.74	103.85	113.60
1	I	908	ASP	CB-CG-OD2	-5.74	113.14	118.30
1	B	594	ASP	CB-CG-OD1	5.73	123.46	118.30
1	F	908	ASP	CB-CG-OD2	-5.73	113.14	118.30
1	H	363	HIS	CA-CB-CG	-5.73	103.86	113.60
1	H	908	ASP	CB-CG-OD2	-5.73	113.14	118.30
1	I	199	ASP	CB-CG-OD1	5.73	123.46	118.30
1	L	594	ASP	CB-CG-OD1	5.73	123.46	118.30
1	B	363	HIS	CA-CB-CG	-5.73	103.86	113.60
1	C	802	ASP	CB-CG-OD1	5.73	123.46	118.30
1	N	598	ASP	CB-CG-OD2	-5.73	113.14	118.30
1	H	802	ASP	CB-CG-OD1	5.73	123.46	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	802	ASP	CB-CG-OD1	5.72	123.45	118.30
1	O	908	ASP	CB-CG-OD2	-5.72	113.15	118.30
1	J	909	ARG	NE-CZ-NH2	-5.72	117.44	120.30
1	L	908	ASP	CB-CG-OD2	-5.72	113.15	118.30
1	G	594	ASP	CB-CG-OD1	5.71	123.44	118.30
1	K	802	ASP	CB-CG-OD1	5.71	123.44	118.30
1	M	594	ASP	CB-CG-OD1	5.71	123.44	118.30
1	G	43	ARG	NE-CZ-NH2	-5.70	117.45	120.30
1	J	594	ASP	CB-CG-OD1	5.70	123.43	118.30
1	N	594	ASP	CB-CG-OD1	5.70	123.43	118.30
1	K	43	ARG	NE-CZ-NH2	-5.70	117.45	120.30
1	I	329	ASP	CB-CG-OD1	5.70	123.43	118.30
1	F	594	ASP	CB-CG-OD1	5.69	123.42	118.30
1	O	802	ASP	CB-CG-OD1	5.69	123.42	118.30
1	H	594	ASP	CB-CG-OD1	5.69	123.42	118.30
1	I	594	ASP	CB-CG-OD1	5.69	123.42	118.30
1	J	43	ARG	NE-CZ-NH2	-5.69	117.45	120.30
1	I	802	ASP	CB-CG-OD1	5.69	123.42	118.30
1	B	233	ASP	CB-CG-OD2	-5.68	113.18	118.30
1	F	909	ARG	NE-CZ-NH2	-5.68	117.46	120.30
1	J	233	ASP	CB-CG-OD2	-5.68	113.18	118.30
1	M	802	ASP	CB-CG-OD1	5.68	123.42	118.30
1	N	43	ARG	NE-CZ-NH2	-5.68	117.46	120.30
1	O	43	ARG	NE-CZ-NH2	-5.68	117.46	120.30
1	A	594	ASP	CB-CG-OD1	5.68	123.41	118.30
1	E	802	ASP	CB-CG-OD1	5.68	123.41	118.30
1	G	233	ASP	CB-CG-OD2	-5.68	113.19	118.30
1	H	43	ARG	NE-CZ-NH2	-5.68	117.46	120.30
1	K	594	ASP	CB-CG-OD1	5.68	123.41	118.30
1	P	802	ASP	CB-CG-OD1	5.68	123.41	118.30
1	E	792	ASP	CB-CG-OD2	-5.68	113.19	118.30
1	L	233	ASP	CB-CG-OD2	-5.68	113.19	118.30
1	D	594	ASP	CB-CG-OD1	5.67	123.41	118.30
1	K	233	ASP	CB-CG-OD2	-5.67	113.19	118.30
1	F	802	ASP	CB-CG-OD1	5.67	123.40	118.30
1	L	802	ASP	CB-CG-OD1	5.67	123.40	118.30
1	M	43	ARG	NE-CZ-NH2	-5.67	117.47	120.30
1	A	375	ASP	CB-CG-OD1	5.67	123.40	118.30
1	B	792	ASP	CB-CG-OD2	-5.67	113.20	118.30
1	C	594	ASP	CB-CG-OD1	5.67	123.40	118.30
1	E	233	ASP	CB-CG-OD2	-5.67	113.20	118.30
1	O	792	ASP	CB-CG-OD2	-5.67	113.20	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	594	ASP	CB-CG-OD1	5.67	123.40	118.30
1	G	802	ASP	CB-CG-OD1	5.67	123.40	118.30
1	P	43	ARG	NE-CZ-NH2	-5.66	117.47	120.30
1	G	792	ASP	CB-CG-OD2	-5.66	113.20	118.30
1	J	329	ASP	CB-CG-OD1	5.66	123.39	118.30
1	A	802	ASP	CB-CG-OD1	5.66	123.39	118.30
1	D	802	ASP	CB-CG-OD1	5.66	123.39	118.30
1	K	792	ASP	CB-CG-OD2	-5.66	113.21	118.30
1	D	909	ARG	NE-CZ-NH2	-5.66	117.47	120.30
1	P	233	ASP	CB-CG-OD2	-5.66	113.21	118.30
1	C	329	ASP	CB-CG-OD1	5.65	123.39	118.30
1	K	329	ASP	CB-CG-OD1	5.65	123.39	118.30
1	L	329	ASP	CB-CG-OD1	5.65	123.39	118.30
1	N	792	ASP	CB-CG-OD2	-5.65	113.21	118.30
1	A	233	ASP	CB-CG-OD2	-5.65	113.22	118.30
1	F	233	ASP	CB-CG-OD2	-5.65	113.22	118.30
1	H	792	ASP	CB-CG-OD2	-5.65	113.22	118.30
1	I	43	ARG	NE-CZ-NH2	-5.65	117.48	120.30
1	O	594	ASP	CB-CG-OD1	5.65	123.38	118.30
1	E	909	ARG	NE-CZ-NH2	-5.65	117.48	120.30
1	B	802	ASP	CB-CG-OD1	5.64	123.38	118.30
1	D	233	ASP	CB-CG-OD2	-5.64	113.22	118.30
1	D	792	ASP	CB-CG-OD2	-5.64	113.22	118.30
1	I	375	ASP	CB-CG-OD1	5.64	123.38	118.30
1	L	792	ASP	CB-CG-OD2	-5.64	113.22	118.30
1	O	329	ASP	CB-CG-OD1	5.64	123.38	118.30
1	B	43	ARG	NE-CZ-NH2	-5.64	117.48	120.30
1	E	329	ASP	CB-CG-OD1	5.64	123.38	118.30
1	G	908	ASP	CB-CG-OD1	5.64	123.38	118.30
1	H	329	ASP	CB-CG-OD1	5.64	123.38	118.30
1	H	909	ARG	NE-CZ-NH2	-5.64	117.48	120.30
1	F	375	ASP	CB-CG-OD1	5.64	123.37	118.30
1	I	233	ASP	CB-CG-OD2	-5.64	113.23	118.30
1	E	594	ASP	CB-CG-OD1	5.63	123.37	118.30
1	F	329	ASP	CB-CG-OD1	5.63	123.37	118.30
1	A	792	ASP	CB-CG-OD2	-5.63	113.23	118.30
1	D	772	ASP	CB-CG-OD1	5.63	123.37	118.30
1	H	233	ASP	CB-CG-OD2	-5.63	113.23	118.30
1	B	329	ASP	CB-CG-OD1	5.63	123.37	118.30
1	M	772	ASP	CB-CG-OD1	5.63	123.37	118.30
1	P	329	ASP	CB-CG-OD1	5.63	123.37	118.30
1	A	329	ASP	CB-CG-OD1	5.62	123.36	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	909	ARG	NE-CZ-NH2	-5.62	117.49	120.30
1	J	772	ASP	CB-CG-OD1	5.62	123.36	118.30
1	M	233	ASP	CB-CG-OD2	-5.62	113.24	118.30
1	M	329	ASP	CB-CG-OD1	5.62	123.36	118.30
1	A	909	ARG	NE-CZ-NH2	-5.62	117.49	120.30
1	C	233	ASP	CB-CG-OD2	-5.62	113.24	118.30
1	J	375	ASP	CB-CG-OD1	5.62	123.36	118.30
1	P	792	ASP	CB-CG-OD2	-5.62	113.24	118.30
1	D	908	ASP	CB-CG-OD1	5.62	123.36	118.30
1	E	43	ARG	NE-CZ-NH2	-5.62	117.49	120.30
1	N	772	ASP	CB-CG-OD1	5.62	123.35	118.30
1	C	43	ARG	NE-CZ-NH2	-5.61	117.49	120.30
1	J	792	ASP	CB-CG-OD2	-5.61	113.25	118.30
1	P	909	ARG	NE-CZ-NH2	-5.61	117.49	120.30
1	L	43	ARG	NE-CZ-NH2	-5.61	117.50	120.30
1	M	909	ARG	NE-CZ-NH2	-5.61	117.50	120.30
1	I	909	ARG	NE-CZ-NH2	-5.60	117.50	120.30
1	K	375	ASP	CB-CG-OD1	5.60	123.34	118.30
1	K	120	THR	CA-CB-CG2	-5.60	104.56	112.40
1	O	233	ASP	CB-CG-OD2	-5.60	113.26	118.30
1	F	772	ASP	CB-CG-OD1	5.60	123.34	118.30
1	E	120	THR	CA-CB-CG2	-5.60	104.56	112.40
1	H	375	ASP	CB-CG-OD1	5.60	123.34	118.30
1	M	792	ASP	CB-CG-OD2	-5.60	113.26	118.30
1	C	792	ASP	CB-CG-OD2	-5.59	113.27	118.30
1	G	329	ASP	CB-CG-OD1	5.59	123.33	118.30
1	G	375	ASP	CB-CG-OD1	5.59	123.33	118.30
1	L	120	THR	CA-CB-CG2	-5.59	104.57	112.40
1	L	909	ARG	NE-CZ-NH2	-5.59	117.50	120.30
1	B	909	ARG	NE-CZ-NH2	-5.59	117.50	120.30
1	D	120	THR	CA-CB-CG2	-5.59	104.57	112.40
1	N	233	ASP	CB-CG-OD2	-5.59	113.27	118.30
1	N	329	ASP	CB-CG-OD1	5.59	123.33	118.30
1	O	120	THR	CA-CB-CG2	-5.59	104.57	112.40
1	P	310	ARG	N-CA-CB	5.59	120.66	110.60
1	H	598	ASP	CB-CG-OD1	5.59	123.33	118.30
1	J	598	ASP	CB-CG-OD1	5.59	123.33	118.30
1	P	375	ASP	CB-CG-OD1	5.59	123.33	118.30
1	C	598	ASP	CB-CG-OD1	5.59	123.33	118.30
1	E	287	ASP	CB-CG-OD1	5.59	123.33	118.30
1	H	310	ARG	N-CA-CB	5.59	120.66	110.60
1	H	772	ASP	CB-CG-OD1	5.59	123.33	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	120	THR	CA-CB-CG2	-5.58	104.58	112.40
1	M	310	ARG	N-CA-CB	5.58	120.65	110.60
1	A	120	THR	CA-CB-CG2	-5.58	104.58	112.40
1	A	772	ASP	CB-CG-OD1	5.58	123.33	118.30
1	B	120	THR	CA-CB-CG2	-5.58	104.59	112.40
1	B	310	ARG	N-CA-CB	5.58	120.65	110.60
1	N	120	THR	CA-CB-CG2	-5.58	104.59	112.40
1	O	610	ASP	CB-CG-OD2	-5.58	113.28	118.30
1	J	120	THR	CA-CB-CG2	-5.58	104.59	112.40
1	O	772	ASP	CB-CG-OD1	5.58	123.32	118.30
1	D	375	ASP	CB-CG-OD1	5.58	123.32	118.30
1	F	43	ARG	NE-CZ-NH2	-5.58	117.51	120.30
1	J	310	ARG	N-CA-CB	5.58	120.64	110.60
1	C	772	ASP	CB-CG-OD1	5.58	123.32	118.30
1	G	120	THR	CA-CB-CG2	-5.58	104.59	112.40
1	G	909	ARG	NE-CZ-NH2	-5.58	117.51	120.30
1	M	120	THR	CA-CB-CG2	-5.58	104.59	112.40
1	C	120	THR	CA-CB-CG2	-5.58	104.59	112.40
1	D	329	ASP	CB-CG-OD1	5.58	123.32	118.30
1	I	772	ASP	CB-CG-OD1	5.58	123.32	118.30
1	I	792	ASP	CB-CG-OD2	-5.58	113.28	118.30
1	F	792	ASP	CB-CG-OD2	-5.57	113.28	118.30
1	H	120	THR	CA-CB-CG2	-5.57	104.60	112.40
1	I	908	ASP	CB-CG-OD1	5.57	123.31	118.30
1	C	908	ASP	CB-CG-OD1	5.57	123.31	118.30
1	P	598	ASP	CB-CG-OD1	5.57	123.31	118.30
1	A	310	ARG	N-CA-CB	5.57	120.62	110.60
1	C	310	ARG	N-CA-CB	5.57	120.62	110.60
1	H	610	ASP	CB-CG-OD2	-5.57	113.29	118.30
1	K	772	ASP	CB-CG-OD1	5.57	123.31	118.30
1	O	310	ARG	N-CA-CB	5.57	120.62	110.60
1	F	310	ARG	N-CA-CB	5.57	120.62	110.60
1	G	772	ASP	CB-CG-OD1	5.57	123.31	118.30
1	K	310	ARG	N-CA-CB	5.57	120.62	110.60
1	L	375	ASP	CB-CG-OD1	5.57	123.31	118.30
1	P	610	ASP	CB-CG-OD2	-5.57	113.29	118.30
1	B	772	ASP	CB-CG-OD1	5.56	123.31	118.30
1	D	310	ARG	N-CA-CB	5.56	120.61	110.60
1	E	375	ASP	CB-CG-OD1	5.56	123.31	118.30
1	B	375	ASP	CB-CG-OD1	5.56	123.30	118.30
1	B	908	ASP	CB-CG-OD1	5.56	123.30	118.30
1	D	610	ASP	CB-CG-OD2	-5.56	113.30	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	598	ASP	CB-CG-OD1	5.56	123.30	118.30
1	I	598	ASP	CB-CG-OD1	5.56	123.30	118.30
1	C	610	ASP	CB-CG-OD2	-5.56	113.30	118.30
1	D	598	ASP	CB-CG-OD1	5.56	123.30	118.30
1	F	598	ASP	CB-CG-OD1	5.56	123.30	118.30
1	L	310	ARG	N-CA-CB	5.56	120.60	110.60
1	N	908	ASP	CB-CG-OD1	5.56	123.30	118.30
1	C	375	ASP	CB-CG-OD1	5.56	123.30	118.30
1	L	908	ASP	CB-CG-OD1	5.56	123.30	118.30
1	I	310	ARG	N-CA-CB	5.55	120.60	110.60
1	I	610	ASP	CB-CG-OD2	-5.55	113.30	118.30
1	N	598	ASP	CB-CG-OD1	5.55	123.30	118.30
1	P	120	THR	CA-CB-CG2	-5.55	104.62	112.40
1	E	310	ARG	N-CA-CB	5.55	120.59	110.60
1	I	120	THR	CA-CB-CG2	-5.55	104.63	112.40
1	J	610	ASP	CB-CG-OD2	-5.55	113.30	118.30
1	L	772	ASP	CB-CG-OD1	5.55	123.30	118.30
1	M	375	ASP	CB-CG-OD1	5.55	123.30	118.30
1	F	610	ASP	CB-CG-OD2	-5.55	113.31	118.30
1	G	287	ASP	CB-CG-OD1	5.55	123.29	118.30
1	P	772	ASP	CB-CG-OD1	5.55	123.29	118.30
1	N	310	ARG	N-CA-CB	5.55	120.58	110.60
1	O	375	ASP	CB-CG-OD1	5.55	123.29	118.30
1	G	310	ARG	N-CA-CB	5.54	120.58	110.60
1	E	772	ASP	CB-CG-OD1	5.54	123.29	118.30
1	J	908	ASP	CB-CG-OD1	5.54	123.29	118.30
1	M	610	ASP	CB-CG-OD2	-5.54	113.31	118.30
1	A	908	ASP	CB-CG-OD1	5.54	123.29	118.30
1	H	908	ASP	CB-CG-OD1	5.54	123.29	118.30
1	K	908	ASP	CB-CG-OD1	5.54	123.28	118.30
1	O	909	ARG	NE-CZ-NH2	-5.54	117.53	120.30
1	A	598	ASP	CB-CG-OD1	5.54	123.28	118.30
1	L	598	ASP	CB-CG-OD1	5.54	123.28	118.30
1	F	908	ASP	CB-CG-OD1	5.54	123.28	118.30
1	N	287	ASP	CB-CG-OD1	5.54	123.28	118.30
1	N	375	ASP	CB-CG-OD1	5.54	123.28	118.30
1	E	908	ASP	CB-CG-OD1	5.53	123.28	118.30
1	I	287	ASP	CB-CG-OD1	5.53	123.28	118.30
1	M	908	ASP	CB-CG-OD1	5.53	123.28	118.30
1	P	908	ASP	CB-CG-OD1	5.53	123.28	118.30
1	H	917	ARG	NE-CZ-NH2	-5.52	117.54	120.30
1	K	610	ASP	CB-CG-OD2	-5.52	113.33	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	287	ASP	CB-CG-OD1	5.52	123.27	118.30
1	N	610	ASP	CB-CG-OD2	-5.52	113.33	118.30
1	A	610	ASP	CB-CG-OD2	-5.52	113.34	118.30
1	G	610	ASP	CB-CG-OD2	-5.51	113.34	118.30
1	O	598	ASP	CB-CG-OD1	5.51	123.26	118.30
1	H	287	ASP	CB-CG-OD1	5.51	123.26	118.30
1	J	507	ASP	CB-CG-OD2	-5.51	113.34	118.30
1	K	287	ASP	CB-CG-OD1	5.51	123.26	118.30
1	D	43	ARG	NE-CZ-NH2	-5.51	117.55	120.30
1	D	287	ASP	CB-CG-OD1	5.51	123.26	118.30
1	O	908	ASP	CB-CG-OD1	5.51	123.26	118.30
1	O	287	ASP	CB-CG-OD1	5.51	123.26	118.30
1	A	287	ASP	CB-CG-OD1	5.51	123.26	118.30
1	F	938	ARG	NE-CZ-NH1	5.51	123.05	120.30
1	C	507	ASP	CB-CG-OD2	-5.50	113.35	118.30
1	M	598	ASP	CB-CG-OD1	5.50	123.25	118.30
1	B	610	ASP	CB-CG-OD2	-5.50	113.35	118.30
1	I	938	ARG	NE-CZ-NH1	5.50	123.05	120.30
1	M	287	ASP	CB-CG-OD1	5.50	123.25	118.30
1	G	598	ASP	CB-CG-OD1	5.50	123.25	118.30
1	A	43	ARG	NE-CZ-NH2	-5.50	117.55	120.30
1	E	610	ASP	CB-CG-OD2	-5.50	113.35	118.30
1	O	439	ARG	NE-CZ-NH2	-5.50	117.55	120.30
1	L	610	ASP	CB-CG-OD2	-5.50	113.35	118.30
1	M	104	THR	CA-CB-CG2	-5.50	104.71	112.40
1	G	104	THR	CA-CB-CG2	-5.49	104.71	112.40
1	N	909	ARG	NE-CZ-NH2	-5.49	117.55	120.30
1	C	287	ASP	CB-CG-OD1	5.49	123.24	118.30
1	B	598	ASP	CB-CG-OD1	5.49	123.24	118.30
1	O	917	ARG	NE-CZ-NH2	-5.49	117.56	120.30
1	C	909	ARG	NE-CZ-NH2	-5.49	117.56	120.30
1	J	917	ARG	NE-CZ-NH2	-5.49	117.56	120.30
1	C	938	ARG	NE-CZ-NH1	5.49	123.04	120.30
1	H	104	THR	CA-CB-CG2	-5.49	104.72	112.40
1	B	104	THR	CA-CB-CG2	-5.49	104.72	112.40
1	I	104	THR	CA-CB-CG2	-5.49	104.72	112.40
1	D	917	ARG	NE-CZ-NH2	-5.48	117.56	120.30
1	F	917	ARG	NE-CZ-NH2	-5.48	117.56	120.30
1	O	104	THR	CA-CB-CG2	-5.48	104.72	112.40
1	A	507	ASP	CB-CG-OD2	-5.48	113.37	118.30
1	F	104	THR	CA-CB-CG2	-5.48	104.73	112.40
1	P	104	THR	CA-CB-CG2	-5.48	104.73	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	507	ASP	CB-CG-OD2	-5.48	113.37	118.30
1	D	938	ARG	NE-CZ-NH1	5.48	123.04	120.30
1	K	598	ASP	CB-CG-OD1	5.48	123.23	118.30
1	B	287	ASP	CB-CG-OD1	5.48	123.23	118.30
1	K	104	THR	CA-CB-CG2	-5.48	104.73	112.40
1	F	507	ASP	CB-CG-OD2	-5.47	113.37	118.30
1	G	507	ASP	CB-CG-OD2	-5.47	113.37	118.30
1	J	287	ASP	CB-CG-OD1	5.47	123.22	118.30
1	L	104	THR	CA-CB-CG2	-5.47	104.74	112.40
1	L	507	ASP	CB-CG-OD2	-5.47	113.38	118.30
1	P	507	ASP	CB-CG-OD2	-5.47	113.38	118.30
1	A	104	THR	CA-CB-CG2	-5.47	104.74	112.40
1	K	507	ASP	CB-CG-OD2	-5.47	113.38	118.30
1	P	287	ASP	CB-CG-OD1	5.47	123.22	118.30
1	D	104	THR	CA-CB-CG2	-5.47	104.75	112.40
1	N	104	THR	CA-CB-CG2	-5.47	104.75	112.40
1	O	507	ASP	CB-CG-OD2	-5.46	113.38	118.30
1	F	287	ASP	CB-CG-OD1	5.46	123.22	118.30
1	J	104	THR	CA-CB-CG2	-5.46	104.75	112.40
1	E	104	THR	CA-CB-CG2	-5.46	104.76	112.40
1	C	104	THR	CA-CB-CG2	-5.46	104.76	112.40
1	H	201	ASP	CB-CG-OD1	5.46	123.21	118.30
1	N	790	ASP	CB-CG-OD1	5.46	123.21	118.30
1	P	917	ARG	NE-CZ-NH2	-5.46	117.57	120.30
1	G	917	ARG	NE-CZ-NH2	-5.45	117.57	120.30
1	G	938	ARG	NE-CZ-NH1	5.45	123.03	120.30
1	O	201	ASP	CB-CG-OD1	5.45	123.21	118.30
1	O	790	ASP	CB-CG-OD1	5.45	123.20	118.30
1	M	507	ASP	CB-CG-OD2	-5.45	113.40	118.30
1	B	507	ASP	CB-CG-OD2	-5.45	113.40	118.30
1	N	938	ARG	NE-CZ-NH1	5.45	123.02	120.30
1	B	52	ARG	NE-CZ-NH2	-5.44	117.58	120.30
1	D	507	ASP	CB-CG-OD2	-5.44	113.40	118.30
1	C	790	ASP	CB-CG-OD1	5.44	123.20	118.30
1	H	46	ARG	CA-CB-CG	-5.44	101.42	113.40
1	C	917	ARG	NE-CZ-NH2	-5.44	117.58	120.30
1	H	790	ASP	CB-CG-OD1	5.44	123.19	118.30
1	E	917	ARG	NE-CZ-NH2	-5.44	117.58	120.30
1	L	938	ARG	NE-CZ-NH1	5.43	123.02	120.30
1	A	917	ARG	NE-CZ-NH2	-5.43	117.59	120.30
1	G	790	ASP	CB-CG-OD1	5.43	123.19	118.30
1	H	507	ASP	CB-CG-OD2	-5.43	113.41	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	790	ASP	CB-CG-OD1	5.43	123.19	118.30
1	M	938	ARG	NE-CZ-NH1	5.43	123.02	120.30
1	O	46	ARG	CA-CB-CG	-5.43	101.46	113.40
1	A	790	ASP	CB-CG-OD1	5.43	123.19	118.30
1	O	52	ARG	NE-CZ-NH2	-5.43	117.59	120.30
1	I	46	ARG	CA-CB-CG	-5.42	101.47	113.40
1	I	52	ARG	NE-CZ-NH2	-5.42	117.59	120.30
1	J	790	ASP	CB-CG-OD1	5.42	123.18	118.30
1	M	46	ARG	CA-CB-CG	-5.42	101.47	113.40
1	P	46	ARG	CA-CB-CG	-5.42	101.47	113.40
1	E	507	ASP	CB-CG-OD2	-5.42	113.42	118.30
1	J	46	ARG	CA-CB-CG	-5.42	101.47	113.40
1	P	201	ASP	CB-CG-OD1	5.42	123.18	118.30
1	P	790	ASP	CB-CG-OD1	5.42	123.18	118.30
1	A	46	ARG	CA-CB-CG	-5.42	101.48	113.40
1	E	790	ASP	CB-CG-OD1	5.42	123.18	118.30
1	F	46	ARG	CA-CB-CG	-5.42	101.48	113.40
1	C	46	ARG	CA-CB-CG	-5.42	101.48	113.40
1	D	790	ASP	CB-CG-OD1	5.42	123.17	118.30
1	F	201	ASP	CB-CG-OD1	5.42	123.18	118.30
1	I	917	ARG	NE-CZ-NH2	-5.42	117.59	120.30
1	F	790	ASP	CB-CG-OD1	5.41	123.17	118.30
1	L	46	ARG	CA-CB-CG	-5.41	101.49	113.40
1	L	790	ASP	CB-CG-OD1	5.41	123.17	118.30
1	M	790	ASP	CB-CG-OD1	5.41	123.17	118.30
1	B	790	ASP	CB-CG-OD1	5.41	123.17	118.30
1	E	46	ARG	CA-CB-CG	-5.41	101.50	113.40
1	G	46	ARG	CA-CB-CG	-5.41	101.50	113.40
1	B	46	ARG	CA-CB-CG	-5.41	101.50	113.40
1	E	938	ARG	NE-CZ-NH1	5.41	123.00	120.30
1	H	52	ARG	NE-CZ-NH2	-5.41	117.60	120.30
1	K	201	ASP	CB-CG-OD1	5.41	123.17	118.30
1	N	46	ARG	CA-CB-CG	-5.41	101.50	113.40
1	P	938	ARG	NE-CZ-NH1	5.41	123.00	120.30
1	I	507	ASP	CB-CG-OD2	-5.41	113.43	118.30
1	K	46	ARG	CA-CB-CG	-5.40	101.51	113.40
1	K	917	ARG	NE-CZ-NH2	-5.40	117.60	120.30
1	C	164	ASP	CB-CG-OD2	-5.40	113.44	118.30
1	D	46	ARG	CA-CB-CG	-5.40	101.52	113.40
1	K	790	ASP	CB-CG-OD1	5.40	123.16	118.30
1	L	201	ASP	CB-CG-OD1	5.40	123.16	118.30
1	P	52	ARG	NE-CZ-NH2	-5.40	117.60	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	52	ARG	NE-CZ-NH2	-5.39	117.60	120.30
1	B	917	ARG	NE-CZ-NH2	-5.39	117.60	120.30
1	E	164	ASP	CB-CG-OD2	-5.39	113.45	118.30
1	I	201	ASP	CB-CG-OD1	5.39	123.15	118.30
1	C	201	ASP	CB-CG-OD1	5.39	123.15	118.30
1	L	917	ARG	NE-CZ-NH2	-5.39	117.61	120.30
1	C	5	ASP	CB-CG-OD1	5.39	123.15	118.30
1	H	5	ASP	CB-CG-OD1	5.38	123.14	118.30
1	P	164	ASP	CB-CG-OD2	-5.38	113.45	118.30
1	C	52	ARG	NE-CZ-NH2	-5.38	117.61	120.30
1	A	201	ASP	CB-CG-OD1	5.38	123.14	118.30
1	A	52	ARG	NE-CZ-NH2	-5.38	117.61	120.30
1	B	938	ARG	NE-CZ-NH1	5.38	122.99	120.30
1	I	5	ASP	CB-CG-OD1	5.38	123.14	118.30
1	N	439	ARG	NE-CZ-NH2	-5.38	117.61	120.30
1	O	938	ARG	NE-CZ-NH1	5.38	122.99	120.30
1	L	164	ASP	CB-CG-OD2	-5.37	113.46	118.30
1	N	164	ASP	CB-CG-OD2	-5.37	113.47	118.30
1	D	201	ASP	CB-CG-OD1	5.37	123.13	118.30
1	H	938	ARG	NE-CZ-NH1	5.37	122.98	120.30
1	B	201	ASP	CB-CG-OD1	5.37	123.13	118.30
1	G	201	ASP	CB-CG-OD1	5.37	123.13	118.30
1	M	201	ASP	CB-CG-OD1	5.37	123.13	118.30
1	A	938	ARG	NE-CZ-NH1	5.36	122.98	120.30
1	C	439	ARG	NE-CZ-NH2	-5.36	117.62	120.30
1	H	875	ASP	CB-CG-OD2	-5.36	113.47	118.30
1	G	828	ASP	CB-CG-OD1	5.36	123.12	118.30
1	B	164	ASP	CB-CG-OD2	-5.36	113.48	118.30
1	J	164	ASP	CB-CG-OD2	-5.36	113.48	118.30
1	P	875	ASP	CB-CG-OD2	-5.36	113.48	118.30
1	F	5	ASP	CB-CG-OD1	5.35	123.12	118.30
1	I	164	ASP	CB-CG-OD2	-5.35	113.48	118.30
1	J	201	ASP	CB-CG-OD1	5.35	123.12	118.30
1	O	164	ASP	CB-CG-OD2	-5.35	113.48	118.30
1	K	439	ARG	NE-CZ-NH2	-5.35	117.63	120.30
1	M	917	ARG	NE-CZ-NH2	-5.35	117.63	120.30
1	J	938	ARG	NE-CZ-NH1	5.35	122.97	120.30
1	E	201	ASP	CB-CG-OD1	5.34	123.11	118.30
1	F	164	ASP	CB-CG-OD2	-5.34	113.49	118.30
1	J	439	ARG	NE-CZ-NH2	-5.34	117.63	120.30
1	A	439	ARG	NE-CZ-NH2	-5.34	117.63	120.30
1	K	938	ARG	NE-CZ-NH1	5.34	122.97	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	164	ASP	CB-CG-OD2	-5.34	113.49	118.30
1	K	164	ASP	CB-CG-OD2	-5.34	113.49	118.30
1	I	828	ASP	CB-CG-OD1	5.34	123.10	118.30
1	C	875	ASP	CB-CG-OD2	-5.34	113.50	118.30
1	K	828	ASP	CB-CG-OD1	5.33	123.10	118.30
1	M	875	ASP	CB-CG-OD2	-5.33	113.50	118.30
1	B	875	ASP	CB-CG-OD2	-5.33	113.50	118.30
1	F	439	ARG	NE-CZ-NH2	-5.33	117.63	120.30
1	J	5	ASP	CB-CG-OD1	5.33	123.10	118.30
1	H	164	ASP	CB-CG-OD2	-5.33	113.50	118.30
1	D	164	ASP	CB-CG-OD2	-5.33	113.50	118.30
1	G	52	ARG	NE-CZ-NH2	-5.33	117.64	120.30
1	O	5	ASP	CB-CG-OD1	5.33	123.09	118.30
1	O	828	ASP	CB-CG-OD1	5.33	123.10	118.30
1	H	648	ASP	CB-CG-OD1	5.33	123.09	118.30
1	L	828	ASP	CB-CG-OD1	5.33	123.09	118.30
1	A	5	ASP	CB-CG-OD1	5.33	123.09	118.30
1	G	5	ASP	CB-CG-OD1	5.32	123.09	118.30
1	J	828	ASP	CB-CG-OD1	5.32	123.09	118.30
1	A	875	ASP	CB-CG-OD2	-5.32	113.51	118.30
1	N	201	ASP	CB-CG-OD1	5.32	123.09	118.30
1	B	5	ASP	CB-CG-OD1	5.32	123.09	118.30
1	P	439	ARG	NE-CZ-NH2	-5.32	117.64	120.30
1	A	828	ASP	CB-CG-OD1	5.32	123.09	118.30
1	F	875	ASP	CB-CG-OD2	-5.32	113.52	118.30
1	H	439	ARG	NE-CZ-NH2	-5.32	117.64	120.30
1	J	875	ASP	CB-CG-OD2	-5.32	113.52	118.30
1	M	5	ASP	CB-CG-OD1	5.32	123.08	118.30
1	C	828	ASP	CB-CG-OD1	5.31	123.08	118.30
1	L	5	ASP	CB-CG-OD1	5.31	123.08	118.30
1	M	52	ARG	NE-CZ-NH2	-5.31	117.64	120.30
1	K	875	ASP	CB-CG-OD2	-5.31	113.52	118.30
1	D	5	ASP	CB-CG-OD1	5.31	123.08	118.30
1	C	648	ASP	CB-CG-OD1	5.31	123.08	118.30
1	B	828	ASP	CB-CG-OD1	5.30	123.07	118.30
1	F	52	ARG	NE-CZ-NH2	-5.30	117.65	120.30
1	G	648	ASP	CB-CG-OD1	5.30	123.08	118.30
1	M	164	ASP	CB-CG-OD2	-5.30	113.53	118.30
1	N	828	ASP	CB-CG-OD1	5.30	123.08	118.30
1	L	439	ARG	NE-CZ-NH2	-5.30	117.65	120.30
1	M	828	ASP	CB-CG-OD1	5.30	123.07	118.30
1	F	828	ASP	CB-CG-OD1	5.30	123.07	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	987	ASP	CB-CG-OD1	5.30	123.07	118.30
1	P	5	ASP	CB-CG-OD1	5.30	123.07	118.30
1	J	52	ARG	NE-CZ-NH2	-5.30	117.65	120.30
1	L	648	ASP	CB-CG-OD1	5.30	123.07	118.30
1	G	164	ASP	CB-CG-OD2	-5.30	113.53	118.30
1	G	439	ARG	NE-CZ-NH2	-5.30	117.65	120.30
1	E	5	ASP	CB-CG-OD1	5.29	123.06	118.30
1	E	875	ASP	CB-CG-OD2	-5.29	113.53	118.30
1	N	917	ARG	NE-CZ-NH2	-5.29	117.65	120.30
1	D	875	ASP	CB-CG-OD2	-5.29	113.54	118.30
1	E	828	ASP	CB-CG-OD1	5.29	123.06	118.30
1	I	439	ARG	NE-CZ-NH2	-5.29	117.66	120.30
1	I	875	ASP	CB-CG-OD2	-5.29	113.54	118.30
1	K	648	ASP	CB-CG-OD1	5.29	123.06	118.30
1	K	52	ARG	NE-CZ-NH2	-5.29	117.66	120.30
1	M	648	ASP	CB-CG-OD1	5.28	123.05	118.30
1	D	52	ARG	NE-CZ-NH2	-5.28	117.66	120.30
1	L	875	ASP	CB-CG-OD2	-5.28	113.55	118.30
1	E	52	ARG	NE-CZ-NH2	-5.28	117.66	120.30
1	I	916	ASP	CB-CG-OD2	-5.28	113.55	118.30
1	L	987	ASP	CB-CG-OD1	5.28	123.05	118.30
1	N	875	ASP	CB-CG-OD2	-5.28	113.55	118.30
1	N	648	ASP	CB-CG-OD1	5.27	123.05	118.30
1	P	828	ASP	CB-CG-OD1	5.27	123.05	118.30
1	J	648	ASP	CB-CG-OD1	5.27	123.04	118.30
1	M	439	ARG	NE-CZ-NH2	-5.27	117.67	120.30
1	D	828	ASP	CB-CG-OD1	5.27	123.04	118.30
1	I	648	ASP	CB-CG-OD1	5.27	123.04	118.30
1	N	987	ASP	CB-CG-OD1	5.27	123.04	118.30
1	E	439	ARG	NE-CZ-NH2	-5.26	117.67	120.30
1	L	916	ASP	CB-CG-OD2	-5.26	113.56	118.30
1	A	648	ASP	CB-CG-OD1	5.26	123.03	118.30
1	P	648	ASP	CB-CG-OD1	5.26	123.04	118.30
1	H	828	ASP	CB-CG-OD1	5.26	123.03	118.30
1	D	916	ASP	CB-CG-OD2	-5.25	113.57	118.30
1	B	439	ARG	NE-CZ-NH2	-5.25	117.67	120.30
1	E	648	ASP	CB-CG-OD1	5.25	123.03	118.30
1	A	252	ASP	CB-CG-OD1	5.25	123.02	118.30
1	E	252	ASP	CB-CG-OD1	5.25	123.02	118.30
1	M	987	ASP	CB-CG-OD1	5.25	123.02	118.30
1	B	648	ASP	CB-CG-OD1	5.25	123.02	118.30
1	G	875	ASP	CB-CG-OD2	-5.25	113.58	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	5	ASP	CB-CG-OD1	5.25	123.02	118.30
1	K	916	ASP	CB-CG-OD2	-5.24	113.58	118.30
1	E	924	ASP	CB-CG-OD2	-5.24	113.58	118.30
1	J	987	ASP	CB-CG-OD1	5.24	123.02	118.30
1	N	5	ASP	CB-CG-OD1	5.24	123.02	118.30
1	H	987	ASP	CB-CG-OD1	5.24	123.01	118.30
1	A	987	ASP	CB-CG-OD1	5.24	123.01	118.30
1	E	987	ASP	CB-CG-OD1	5.24	123.01	118.30
1	F	252	ASP	CB-CG-OD1	5.24	123.01	118.30
1	M	252	ASP	CB-CG-OD1	5.24	123.01	118.30
1	P	987	ASP	CB-CG-OD1	5.23	123.01	118.30
1	C	916	ASP	CB-CG-OD2	-5.23	113.60	118.30
1	D	252	ASP	CB-CG-OD1	5.23	123.00	118.30
1	G	916	ASP	CB-CG-OD2	-5.23	113.60	118.30
1	O	875	ASP	CB-CG-OD2	-5.23	113.60	118.30
1	E	916	ASP	CB-CG-OD2	-5.22	113.60	118.30
1	N	569	ASP	CB-CG-OD1	5.22	123.00	118.30
1	A	916	ASP	CB-CG-OD2	-5.22	113.60	118.30
1	F	648	ASP	CB-CG-OD1	5.22	123.00	118.30
1	G	924	ASP	CB-CG-OD2	-5.22	113.60	118.30
1	I	924	ASP	CB-CG-OD2	-5.22	113.60	118.30
1	P	924	ASP	CB-CG-OD2	-5.22	113.60	118.30
1	K	987	ASP	CB-CG-OD1	5.22	123.00	118.30
1	N	52	ARG	NE-CZ-NH2	-5.22	117.69	120.30
1	D	439	ARG	NE-CZ-NH2	-5.22	117.69	120.30
1	K	924	ASP	CB-CG-OD2	-5.22	113.60	118.30
1	L	252	ASP	CB-CG-OD1	5.22	123.00	118.30
1	O	648	ASP	CB-CG-OD1	5.22	123.00	118.30
1	C	252	ASP	CB-CG-OD1	5.21	122.99	118.30
1	D	648	ASP	CB-CG-OD1	5.21	122.99	118.30
1	D	987	ASP	CB-CG-OD1	5.21	122.99	118.30
1	N	252	ASP	CB-CG-OD1	5.21	122.99	118.30
1	P	252	ASP	CB-CG-OD1	5.21	122.99	118.30
1	H	924	ASP	CB-CG-OD2	-5.21	113.61	118.30
1	J	924	ASP	CB-CG-OD2	-5.20	113.62	118.30
1	K	252	ASP	CB-CG-OD1	5.20	122.98	118.30
1	A	924	ASP	CB-CG-OD2	-5.20	113.62	118.30
1	O	569	ASP	CB-CG-OD1	5.20	122.98	118.30
1	O	916	ASP	CB-CG-OD2	-5.20	113.62	118.30
1	N	924	ASP	CB-CG-OD2	-5.20	113.62	118.30
1	C	987	ASP	CB-CG-OD1	5.20	122.98	118.30
1	H	916	ASP	CB-CG-OD2	-5.20	113.62	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	924	ASP	CB-CG-OD2	-5.19	113.62	118.30
1	I	252	ASP	CB-CG-OD1	5.19	122.97	118.30
1	I	987	ASP	CB-CG-OD1	5.19	122.97	118.30
1	L	924	ASP	CB-CG-OD2	-5.19	113.63	118.30
1	K	1006	GLU	CG-CD-OE2	-5.19	107.92	118.30
1	O	924	ASP	CB-CG-OD2	-5.19	113.63	118.30
1	F	916	ASP	CB-CG-OD2	-5.19	113.63	118.30
1	B	1006	GLU	CG-CD-OE2	-5.19	107.93	118.30
1	M	916	ASP	CB-CG-OD2	-5.19	113.63	118.30
1	O	1006	GLU	CG-CD-OE2	-5.19	107.93	118.30
1	B	987	ASP	CB-CG-OD1	5.18	122.97	118.30
1	M	924	ASP	CB-CG-OD2	-5.18	113.64	118.30
1	N	916	ASP	CB-CG-OD2	-5.18	113.63	118.30
1	P	916	ASP	CB-CG-OD2	-5.18	113.63	118.30
1	D	428	ASP	CB-CG-OD1	5.18	122.96	118.30
1	F	987	ASP	CB-CG-OD1	5.18	122.97	118.30
1	B	924	ASP	CB-CG-OD2	-5.18	113.64	118.30
1	F	924	ASP	CB-CG-OD2	-5.18	113.64	118.30
1	B	252	ASP	CB-CG-OD1	5.18	122.96	118.30
1	H	1006	GLU	CG-CD-OE2	-5.18	107.95	118.30
1	D	71	GLU	CB-CA-C	5.17	120.75	110.40
1	H	252	ASP	CB-CG-OD1	5.17	122.96	118.30
1	B	916	ASP	CB-CG-OD2	-5.17	113.65	118.30
1	F	1006	GLU	CG-CD-OE2	-5.17	107.96	118.30
1	G	71	GLU	CB-CA-C	5.17	120.74	110.40
1	G	987	ASP	CB-CG-OD1	5.17	122.95	118.30
1	G	1006	GLU	CG-CD-OE2	-5.17	107.96	118.30
1	N	1006	GLU	CG-CD-OE2	-5.17	107.96	118.30
1	J	1006	GLU	CG-CD-OE2	-5.17	107.96	118.30
1	K	569	ASP	CB-CG-OD1	5.17	122.95	118.30
1	A	1006	GLU	CG-CD-OE2	-5.17	107.97	118.30
1	D	1006	GLU	CG-CD-OE2	-5.17	107.96	118.30
1	G	252	ASP	CB-CG-OD1	5.17	122.95	118.30
1	H	428	ASP	CB-CG-OD1	5.17	122.95	118.30
1	H	569	ASP	CB-CG-OD1	5.17	122.95	118.30
1	O	252	ASP	CB-CG-OD1	5.17	122.95	118.30
1	E	428	ASP	CB-CG-OD1	5.17	122.95	118.30
1	L	1006	GLU	CG-CD-OE2	-5.17	107.97	118.30
1	C	1006	GLU	CG-CD-OE2	-5.16	107.97	118.30
1	P	1006	GLU	CG-CD-OE2	-5.16	107.97	118.30
1	E	71	GLU	CB-CA-C	5.16	120.72	110.40
1	F	71	GLU	CB-CA-C	5.16	120.72	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	71	GLU	CB-CA-C	5.16	120.72	110.40
1	J	916	ASP	CB-CG-OD2	-5.16	113.66	118.30
1	M	428	ASP	CB-CG-OD1	5.16	122.94	118.30
1	N	71	GLU	CB-CA-C	5.16	120.72	110.40
1	I	1006	GLU	CG-CD-OE2	-5.16	107.98	118.30
1	L	428	ASP	CB-CG-OD1	5.16	122.94	118.30
1	O	71	GLU	CB-CA-C	5.16	120.72	110.40
1	O	428	ASP	CB-CG-OD1	5.16	122.94	118.30
1	E	1006	GLU	CG-CD-OE2	-5.16	107.98	118.30
1	P	71	GLU	CB-CA-C	5.16	120.71	110.40
1	I	428	ASP	CB-CG-OD1	5.16	122.94	118.30
1	J	71	GLU	CB-CA-C	5.16	120.71	110.40
1	M	1006	GLU	CG-CD-OE2	-5.16	107.99	118.30
1	A	71	GLU	CB-CA-C	5.15	120.71	110.40
1	C	71	GLU	CB-CA-C	5.15	120.71	110.40
1	C	428	ASP	CB-CG-OD1	5.15	122.94	118.30
1	A	428	ASP	CB-CG-OD1	5.15	122.94	118.30
1	G	569	ASP	CB-CG-OD1	5.15	122.94	118.30
1	K	71	GLU	CB-CA-C	5.15	120.70	110.40
1	L	71	GLU	CB-CA-C	5.15	120.71	110.40
1	I	569	ASP	CB-CG-OD1	5.15	122.94	118.30
1	M	59	ARG	NE-CZ-NH1	5.15	122.87	120.30
1	M	71	GLU	CB-CA-C	5.15	120.69	110.40
1	B	71	GLU	CB-CA-C	5.15	120.69	110.40
1	E	569	ASP	CB-CG-OD1	5.15	122.93	118.30
1	F	569	ASP	CB-CG-OD1	5.14	122.93	118.30
1	I	71	GLU	CB-CA-C	5.14	120.69	110.40
1	C	569	ASP	CB-CG-OD1	5.14	122.93	118.30
1	C	924	ASP	CB-CG-OD2	-5.14	113.67	118.30
1	A	569	ASP	CB-CG-OD1	5.14	122.92	118.30
1	J	428	ASP	CB-CG-OD1	5.14	122.92	118.30
1	M	569	ASP	CB-CG-OD1	5.14	122.92	118.30
1	J	569	ASP	CB-CG-OD1	5.13	122.92	118.30
1	J	252	ASP	CB-CG-OD1	5.13	122.92	118.30
1	D	569	ASP	CB-CG-OD1	5.13	122.92	118.30
1	K	428	ASP	CB-CG-OD1	5.12	122.91	118.30
1	L	569	ASP	CB-CG-OD1	5.12	122.91	118.30
1	N	335	VAL	CB-CA-C	-5.12	101.67	111.40
1	M	335	VAL	CB-CA-C	-5.12	101.67	111.40
1	N	428	ASP	CB-CG-OD1	5.12	122.91	118.30
1	P	428	ASP	CB-CG-OD1	5.12	122.91	118.30
1	K	335	VAL	CB-CA-C	-5.12	101.68	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	428	ASP	CB-CG-OD1	5.11	122.90	118.30
1	H	335	VAL	CB-CA-C	-5.11	101.69	111.40
1	O	335	VAL	CB-CA-C	-5.11	101.69	111.40
1	K	234	ASP	CB-CG-OD1	5.11	122.90	118.30
1	A	234	ASP	CB-CG-OD1	5.11	122.90	118.30
1	A	335	VAL	CB-CA-C	-5.11	101.70	111.40
1	F	335	VAL	CB-CA-C	-5.11	101.70	111.40
1	G	335	VAL	CB-CA-C	-5.11	101.70	111.40
1	P	569	ASP	CB-CG-OD1	5.10	122.89	118.30
1	E	335	VAL	CB-CA-C	-5.10	101.71	111.40
1	I	335	VAL	CB-CA-C	-5.10	101.71	111.40
1	B	428	ASP	CB-CG-OD1	5.10	122.89	118.30
1	C	335	VAL	CB-CA-C	-5.10	101.71	111.40
1	D	335	VAL	CB-CA-C	-5.10	101.72	111.40
1	J	335	VAL	CB-CA-C	-5.10	101.72	111.40
1	P	335	VAL	CB-CA-C	-5.09	101.72	111.40
1	C	234	ASP	CB-CG-OD1	5.09	122.88	118.30
1	B	569	ASP	CB-CG-OD1	5.09	122.88	118.30
1	F	234	ASP	CB-CG-OD1	5.09	122.88	118.30
1	L	335	VAL	CB-CA-C	-5.09	101.73	111.40
1	E	1018	LEU	CB-CA-C	-5.09	100.53	110.20
1	B	335	VAL	CB-CA-C	-5.08	101.74	111.40
1	E	234	ASP	CB-CG-OD1	5.08	122.88	118.30
1	G	234	ASP	CB-CG-OD1	5.08	122.88	118.30
1	N	1018	LEU	CB-CA-C	-5.08	100.54	110.20
1	L	234	ASP	CB-CG-OD1	5.08	122.87	118.30
1	H	1018	LEU	CB-CA-C	-5.07	100.56	110.20
1	I	1018	LEU	CB-CA-C	-5.07	100.56	110.20
1	O	59	ARG	NE-CZ-NH1	5.07	122.84	120.30
1	L	1018	LEU	CB-CA-C	-5.07	100.57	110.20
1	M	234	ASP	CB-CG-OD1	5.07	122.86	118.30
1	C	344	LEU	CA-CB-CG	-5.07	103.65	115.30
1	E	344	LEU	CA-CB-CG	-5.07	103.65	115.30
1	A	1018	LEU	CB-CA-C	-5.07	100.58	110.20
1	C	164	ASP	CB-CG-OD1	5.07	122.86	118.30
1	G	428	ASP	CB-CG-OD1	5.07	122.86	118.30
1	P	59	ARG	NE-CZ-NH1	5.06	122.83	120.30
1	B	1018	LEU	CB-CA-C	-5.06	100.58	110.20
1	C	1018	LEU	CB-CA-C	-5.06	100.58	110.20
1	P	344	LEU	CA-CB-CG	-5.06	103.65	115.30
1	G	1018	LEU	CB-CA-C	-5.06	100.59	110.20
1	N	234	ASP	CB-CG-OD1	5.06	122.85	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	59	ARG	NE-CZ-NH1	5.06	122.83	120.30
1	I	234	ASP	CB-CG-OD1	5.06	122.85	118.30
1	I	344	LEU	CA-CB-CG	-5.06	103.67	115.30
1	K	1018	LEU	CB-CA-C	-5.06	100.59	110.20
1	M	1018	LEU	CB-CA-C	-5.06	100.59	110.20
1	O	344	LEU	CA-CB-CG	-5.06	103.67	115.30
1	L	344	LEU	CA-CB-CG	-5.06	103.67	115.30
1	J	1018	LEU	CB-CA-C	-5.05	100.60	110.20
1	O	1018	LEU	CB-CA-C	-5.05	100.60	110.20
1	D	1018	LEU	CB-CA-C	-5.05	100.60	110.20
1	M	344	LEU	CA-CB-CG	-5.05	103.68	115.30
1	A	344	LEU	CA-CB-CG	-5.05	103.69	115.30
1	H	77	ASP	CB-CG-OD1	5.05	122.84	118.30
1	K	344	LEU	CA-CB-CG	-5.05	103.69	115.30
1	P	1018	LEU	CB-CA-C	-5.05	100.61	110.20
1	B	164	ASP	CB-CG-OD1	5.05	122.84	118.30
1	B	234	ASP	CB-CG-OD1	5.05	122.84	118.30
1	D	344	LEU	CA-CB-CG	-5.05	103.69	115.30
1	C	59	ARG	NE-CZ-NH1	5.04	122.82	120.30
1	C	919	ASP	CB-CG-OD2	-5.04	113.76	118.30
1	D	492	ASP	CB-CG-OD1	5.04	122.84	118.30
1	N	344	LEU	CA-CB-CG	-5.04	103.70	115.30
1	D	234	ASP	CB-CG-OD1	5.04	122.84	118.30
1	E	77	ASP	CB-CG-OD1	5.04	122.84	118.30
1	J	344	LEU	CA-CB-CG	-5.04	103.70	115.30
1	B	344	LEU	CA-CB-CG	-5.04	103.71	115.30
1	F	1018	LEU	CB-CA-C	-5.04	100.62	110.20
1	N	59	ARG	NE-CZ-NH1	5.04	122.82	120.30
1	G	344	LEU	CA-CB-CG	-5.04	103.71	115.30
1	H	164	ASP	CB-CG-OD1	5.04	122.83	118.30
1	O	234	ASP	CB-CG-OD1	5.04	122.83	118.30
1	H	344	LEU	CA-CB-CG	-5.04	103.72	115.30
1	I	77	ASP	CB-CG-OD1	5.04	122.83	118.30
1	J	579	ASP	CB-CG-OD2	-5.04	113.77	118.30
1	M	832	ASP	CB-CG-OD1	5.04	122.83	118.30
1	P	234	ASP	CB-CG-OD1	5.04	122.83	118.30
1	F	344	LEU	CA-CB-CG	-5.03	103.72	115.30
1	J	234	ASP	CB-CG-OD1	5.03	122.83	118.30
1	N	164	ASP	CB-CG-OD1	5.03	122.83	118.30
1	B	492	ASP	CB-CG-OD1	5.03	122.83	118.30
1	B	59	ARG	NE-CZ-NH1	5.03	122.81	120.30
1	J	59	ARG	NE-CZ-NH1	5.02	122.81	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	710	GLU	CB-CA-C	-5.02	100.35	110.40
1	H	710	GLU	CB-CA-C	-5.02	100.35	110.40
1	K	579	ASP	CB-CG-OD2	-5.02	113.78	118.30
1	I	59	ARG	NE-CZ-NH1	5.02	122.81	120.30
1	E	164	ASP	CB-CG-OD1	5.02	122.81	118.30
1	I	492	ASP	CB-CG-OD1	5.01	122.81	118.30
1	M	710	GLU	CB-CA-C	-5.01	100.38	110.40
1	I	164	ASP	CB-CG-OD1	5.01	122.81	118.30
1	I	579	ASP	CB-CG-OD2	-5.01	113.79	118.30
1	K	710	GLU	CB-CA-C	-5.01	100.38	110.40
1	O	710	GLU	CB-CA-C	-5.01	100.38	110.40
1	A	59	ARG	NE-CZ-NH1	5.01	122.81	120.30
1	C	710	GLU	CB-CA-C	-5.01	100.38	110.40
1	D	59	ARG	NE-CZ-NH1	5.01	122.80	120.30
1	J	919	ASP	CB-CG-OD2	-5.01	113.79	118.30
1	P	77	ASP	CB-CG-OD1	5.01	122.81	118.30
1	A	164	ASP	CB-CG-OD1	5.01	122.81	118.30
1	E	710	GLU	CB-CA-C	-5.01	100.39	110.40
1	I	710	GLU	CB-CA-C	-5.01	100.38	110.40
1	L	77	ASP	CB-CG-OD1	5.01	122.81	118.30
1	A	710	GLU	CB-CA-C	-5.01	100.39	110.40
1	G	77	ASP	CB-CG-OD1	5.01	122.81	118.30
1	H	234	ASP	CB-CG-OD1	5.01	122.81	118.30
1	L	710	GLU	CB-CA-C	-5.01	100.39	110.40
1	N	710	GLU	CB-CA-C	-5.01	100.39	110.40
1	G	710	GLU	CB-CA-C	-5.00	100.39	110.40
1	G	579	ASP	CB-CG-OD2	-5.00	113.80	118.30
1	L	164	ASP	CB-CG-OD1	5.00	122.80	118.30
1	P	164	ASP	CB-CG-OD1	5.00	122.80	118.30
1	P	832	ASP	CB-CG-OD1	5.00	122.80	118.30
1	D	710	GLU	CB-CA-C	-5.00	100.40	110.40
1	P	710	GLU	CB-CA-C	-5.00	100.40	110.40

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	8219	0	7812	538	4
1	B	8219	0	7812	504	5
1	C	8219	0	7812	506	2
1	D	8219	0	7812	514	0
1	E	8219	0	7812	507	0
1	F	8219	0	7812	512	0
1	G	8219	0	7812	503	2
1	H	8219	0	7812	512	0
1	I	8219	0	7812	508	2
1	J	8219	0	7812	510	0
1	K	8219	0	7812	510	0
1	L	8219	0	7812	513	2
1	M	8219	0	7812	506	0
1	N	8219	0	7812	513	0
1	O	8219	0	7812	505	1
1	P	8219	0	7812	512	2
2	A	11	0	9	2	0
2	B	11	0	9	2	0
2	C	11	0	9	2	0
2	D	11	0	9	2	0
2	E	11	0	9	2	0
2	F	11	0	9	2	0
2	G	11	0	9	2	0
2	H	11	0	9	2	0
2	I	11	0	9	2	0
2	J	11	0	9	2	0
2	K	11	0	9	2	0
2	L	11	0	9	2	0
2	M	11	0	9	2	0
2	N	11	0	9	2	0
2	O	11	0	9	2	0
2	P	11	0	9	2	0
3	A	2	0	0	0	0
3	B	2	0	0	0	0
3	C	2	0	0	0	0
3	D	2	0	0	0	0
3	E	2	0	0	0	0
3	F	2	0	0	0	0
3	G	2	0	0	0	0
3	H	2	0	0	0	0
3	I	2	0	0	0	0
3	J	2	0	0	0	0
3	K	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	L	2	0	0	0	0
3	M	2	0	0	0	0
3	N	2	0	0	0	0
3	O	2	0	0	0	0
3	P	2	0	0	0	0
4	A	2	0	0	0	0
4	B	2	0	0	0	0
4	C	2	0	0	0	0
4	D	2	0	0	0	0
4	E	2	0	0	0	0
4	F	2	0	0	0	0
4	G	2	0	0	0	0
4	H	2	0	0	0	0
4	I	2	0	0	0	0
4	J	2	0	0	0	0
4	K	2	0	0	0	0
4	L	2	0	0	0	0
4	M	2	0	0	0	0
4	N	2	0	0	0	0
4	O	2	0	0	0	0
4	P	2	0	0	0	0
5	A	140	0	0	3	0
5	B	140	0	0	2	0
5	C	140	0	0	2	0
5	D	140	0	0	2	0
5	E	139	0	0	2	0
5	F	140	0	0	2	0
5	G	140	0	0	2	0
5	H	141	0	0	2	0
5	I	140	0	0	2	0
5	J	140	0	0	2	0
5	K	140	0	0	2	0
5	L	140	0	0	2	0
5	M	140	0	0	3	0
5	N	140	0	0	2	0
5	O	140	0	0	2	0
5	P	140	0	0	2	0
All	All	133984	0	125136	8056	10

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 31.

All (8056) 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:O:427:THR:HA	1:O:436:MET:HE1	1.38	1.04
1:F:427:THR:HA	1:F:436:MET:HE1	1.41	1.03
1:C:427:THR:HA	1:C:436:MET:HE1	1.41	1.02
1:F:43:ARG:HH11	1:F:43:ARG:HG2	1.26	1.00
1:P:43:ARG:HH11	1:P:43:ARG:HG2	1.26	1.00
1:L:43:ARG:HG2	1:L:43:ARG:HH11	1.26	1.00
1:N:43:ARG:HG2	1:N:43:ARG:HH11	1.26	1.00
1:G:43:ARG:HH11	1:G:43:ARG:HG2	1.27	1.00
1:J:43:ARG:HH11	1:J:43:ARG:HG2	1.26	0.99
1:O:43:ARG:HH11	1:O:43:ARG:HG2	1.26	0.98
1:I:43:ARG:HH11	1:I:43:ARG:HG2	1.27	0.98
1:M:43:ARG:HH11	1:M:43:ARG:HG2	1.27	0.98
1:B:43:ARG:HG2	1:B:43:ARG:HH11	1.27	0.98
1:E:43:ARG:HH11	1:E:43:ARG:HG2	1.27	0.98
1:L:427:THR:HA	1:L:436:MET:HE1	1.46	0.98
1:A:427:THR:HA	1:A:436:MET:HE1	1.43	0.97
1:D:43:ARG:HH11	1:D:43:ARG:HG2	1.26	0.97
1:C:43:ARG:HG2	1:C:43:ARG:HH11	1.26	0.96
1:A:43:ARG:HH11	1:A:43:ARG:HG2	1.27	0.96
1:H:43:ARG:HG2	1:H:43:ARG:HH11	1.27	0.96
1:K:43:ARG:HH11	1:K:43:ARG:HG2	1.26	0.96
1:M:427:THR:HA	1:M:436:MET:HE1	1.48	0.95
1:E:427:THR:HA	1:E:436:MET:HE1	1.49	0.94
1:K:427:THR:HA	1:K:436:MET:HE1	1.49	0.93
1:P:427:THR:HA	1:P:436:MET:HE1	1.46	0.93
1:I:360:HIS:CE1	1:I:362:LEU:HB2	2.04	0.93
1:L:360:HIS:CE1	1:L:362:LEU:HB2	2.04	0.93
1:C:360:HIS:CE1	1:C:362:LEU:HB2	2.04	0.93
1:J:360:HIS:CE1	1:J:362:LEU:HB2	2.04	0.93
1:M:425:ARG:NH2	1:P:287:ASP:OD2	2.00	0.93
1:H:360:HIS:CE1	1:H:362:LEU:HB2	2.04	0.93
1:O:360:HIS:CE1	1:O:362:LEU:HB2	2.04	0.93
1:L:427:THR:HA	1:L:436:MET:CE	1.99	0.93
1:D:427:THR:HA	1:D:436:MET:CE	2.00	0.92
1:A:360:HIS:CE1	1:A:362:LEU:HB2	2.04	0.92
1:K:360:HIS:CE1	1:K:362:LEU:HB2	2.04	0.92
1:B:360:HIS:CE1	1:B:362:LEU:HB2	2.04	0.92
1:D:427:THR:HA	1:D:436:MET:HE1	1.49	0.92
1:E:360:HIS:CE1	1:E:362:LEU:HB2	2.04	0.92
1:C:427:THR:HA	1:C:436:MET:CE	1.99	0.92
1:N:427:THR:HA	1:N:436:MET:CE	1.99	0.92
1:N:427:THR:HA	1:N:436:MET:HE1	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:360:HIS:CE1	1:D:362:LEU:HB2	2.04	0.92
1:F:427:THR:HA	1:F:436:MET:CE	1.99	0.92
1:L:894:ARG:NH2	1:L:921:PRO:HD3	1.85	0.92
1:G:427:THR:HA	1:G:436:MET:CE	1.99	0.92
1:J:427:THR:HA	1:J:436:MET:HE1	1.52	0.92
1:G:360:HIS:CE1	1:G:362:LEU:HB2	2.04	0.92
1:I:894:ARG:NH2	1:I:921:PRO:HD3	1.85	0.92
1:N:360:HIS:CE1	1:N:362:LEU:HB2	2.04	0.92
1:E:427:THR:HA	1:E:436:MET:CE	1.99	0.92
1:F:360:HIS:CE1	1:F:362:LEU:HB2	2.04	0.92
1:G:894:ARG:NH2	1:G:921:PRO:HD3	1.85	0.92
1:O:894:ARG:NH2	1:O:921:PRO:HD3	1.85	0.92
1:B:434:PRO:HB3	1:C:434:PRO:HB3	1.52	0.92
1:H:427:THR:HA	1:H:436:MET:CE	2.00	0.92
1:P:894:ARG:NH2	1:P:921:PRO:HD3	1.85	0.92
1:I:427:THR:HA	1:I:436:MET:CE	1.99	0.91
1:J:427:THR:HA	1:J:436:MET:CE	1.99	0.91
1:A:427:THR:HA	1:A:436:MET:CE	1.99	0.91
1:D:894:ARG:NH2	1:D:921:PRO:HD3	1.85	0.91
1:H:894:ARG:NH2	1:H:921:PRO:HD3	1.85	0.91
1:J:894:ARG:NH2	1:J:921:PRO:HD3	1.85	0.91
1:M:427:THR:HA	1:M:436:MET:CE	2.00	0.91
1:P:427:THR:HA	1:P:436:MET:CE	1.99	0.91
1:M:360:HIS:CE1	1:M:362:LEU:HB2	2.04	0.91
1:C:894:ARG:NH2	1:C:921:PRO:HD3	1.85	0.91
1:E:894:ARG:NH2	1:E:921:PRO:HD3	1.85	0.91
1:K:427:THR:HA	1:K:436:MET:CE	1.99	0.91
1:K:894:ARG:NH2	1:K:921:PRO:HD3	1.85	0.91
1:P:360:HIS:CE1	1:P:362:LEU:HB2	2.04	0.91
1:B:427:THR:HA	1:B:436:MET:CE	2.00	0.91
1:L:316:HIS:HA	1:L:323:ILE:HD13	1.53	0.91
1:A:894:ARG:NH2	1:A:921:PRO:HD3	1.85	0.91
1:I:316:HIS:HA	1:I:323:ILE:HD13	1.53	0.91
1:O:427:THR:HA	1:O:436:MET:CE	2.00	0.91
1:B:894:ARG:NH2	1:B:921:PRO:HD3	1.85	0.91
1:M:894:ARG:NH2	1:M:921:PRO:HD3	1.85	0.91
1:F:894:ARG:NH2	1:F:921:PRO:HD3	1.85	0.90
1:N:894:ARG:NH2	1:N:921:PRO:HD3	1.85	0.90
1:P:316:HIS:HA	1:P:323:ILE:HD13	1.53	0.90
1:H:57:GLU:HG2	1:H:83:THR:CG2	2.02	0.90
1:I:57:GLU:HG2	1:I:83:THR:CG2	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:57:GLU:HG2	1:A:83:THR:CG2	2.02	0.90
1:B:57:GLU:HG2	1:B:83:THR:CG2	2.02	0.90
1:D:316:HIS:HA	1:D:323:ILE:HD13	1.53	0.90
1:E:57:GLU:HG2	1:E:83:THR:CG2	2.02	0.90
1:M:57:GLU:HG2	1:M:83:THR:CG2	2.02	0.90
1:N:57:GLU:HG2	1:N:83:THR:CG2	2.02	0.90
1:O:316:HIS:HA	1:O:323:ILE:HD13	1.53	0.90
1:F:316:HIS:HA	1:F:323:ILE:HD13	1.54	0.90
1:G:316:HIS:HA	1:G:323:ILE:HD13	1.53	0.90
1:N:316:HIS:HA	1:N:323:ILE:HD13	1.53	0.90
1:B:746:ASP:HA	1:B:760:ARG:HG3	1.54	0.90
1:F:57:GLU:HG2	1:F:83:THR:CG2	2.02	0.90
1:K:316:HIS:HA	1:K:323:ILE:HD13	1.54	0.90
1:B:316:HIS:HA	1:B:323:ILE:HD13	1.53	0.89
1:J:57:GLU:HG2	1:J:83:THR:CG2	2.02	0.89
1:H:316:HIS:HA	1:H:323:ILE:HD13	1.53	0.89
1:P:57:GLU:HG2	1:P:83:THR:CG2	2.02	0.89
1:L:57:GLU:HG2	1:L:83:THR:CG2	2.02	0.89
1:N:746:ASP:HA	1:N:760:ARG:HG3	1.54	0.89
1:F:746:ASP:HA	1:F:760:ARG:HG3	1.54	0.89
1:G:746:ASP:HA	1:G:760:ARG:HG3	1.54	0.89
1:K:57:GLU:HG2	1:K:83:THR:CG2	2.02	0.89
1:O:746:ASP:HA	1:O:760:ARG:HG3	1.54	0.89
1:D:57:GLU:HG2	1:D:83:THR:CG2	2.02	0.89
1:L:227:VAL:HG13	1:L:240:LEU:HD11	1.55	0.89
1:M:316:HIS:HA	1:M:323:ILE:HD13	1.53	0.89
1:A:316:HIS:HA	1:A:323:ILE:HD13	1.53	0.89
1:G:57:GLU:HG2	1:G:83:THR:CG2	2.02	0.89
1:F:227:VAL:HG13	1:F:240:LEU:HD11	1.55	0.89
1:G:427:THR:HA	1:G:436:MET:HE1	1.53	0.89
1:I:427:THR:HA	1:I:436:MET:HE1	1.53	0.89
1:K:227:VAL:HG13	1:K:240:LEU:HD11	1.55	0.89
1:N:227:VAL:HG13	1:N:240:LEU:HD11	1.55	0.89
1:O:227:VAL:HG13	1:O:240:LEU:HD11	1.55	0.89
1:O:57:GLU:HG2	1:O:83:THR:CG2	2.02	0.89
1:G:227:VAL:HG13	1:G:240:LEU:HD11	1.55	0.88
1:A:746:ASP:HA	1:A:760:ARG:HG3	1.54	0.88
1:K:746:ASP:HA	1:K:760:ARG:HG3	1.54	0.88
1:I:746:ASP:HA	1:I:760:ARG:HG3	1.54	0.88
1:B:227:VAL:HG13	1:B:240:LEU:HD11	1.55	0.88
1:C:316:HIS:HA	1:C:323:ILE:HD13	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:668:VAL:HG13	1:J:669:PRO:HD2	1.56	0.88
1:D:668:VAL:HG13	1:D:669:PRO:HD2	1.56	0.88
1:M:227:VAL:HG13	1:M:240:LEU:HD11	1.55	0.88
1:B:668:VAL:HG13	1:B:669:PRO:HD2	1.56	0.88
1:E:316:HIS:HA	1:E:323:ILE:HD13	1.53	0.88
1:I:227:VAL:HG13	1:I:240:LEU:HD11	1.55	0.88
1:L:746:ASP:HA	1:L:760:ARG:HG3	1.54	0.88
1:M:668:VAL:HG13	1:M:669:PRO:HD2	1.56	0.88
1:G:668:VAL:HG13	1:G:669:PRO:HD2	1.56	0.88
1:E:668:VAL:HG13	1:E:669:PRO:HD2	1.56	0.88
1:F:668:VAL:HG13	1:F:669:PRO:HD2	1.56	0.88
1:O:668:VAL:HG13	1:O:669:PRO:HD2	1.56	0.88
1:C:227:VAL:HG13	1:C:240:LEU:HD11	1.55	0.87
1:C:746:ASP:HA	1:C:760:ARG:HG3	1.54	0.87
1:E:227:VAL:HG13	1:E:240:LEU:HD11	1.55	0.87
1:C:668:VAL:HG13	1:C:669:PRO:HD2	1.56	0.87
1:J:316:HIS:HA	1:J:323:ILE:HD13	1.53	0.87
1:A:668:VAL:HG13	1:A:669:PRO:HD2	1.56	0.87
1:C:57:GLU:HG2	1:C:83:THR:CG2	2.02	0.87
1:D:746:ASP:HA	1:D:760:ARG:HG3	1.54	0.87
1:E:746:ASP:HA	1:E:760:ARG:HG3	1.54	0.87
1:N:668:VAL:HG13	1:N:669:PRO:HD2	1.56	0.87
1:A:227:VAL:HG13	1:A:240:LEU:HD11	1.55	0.87
1:K:668:VAL:HG13	1:K:669:PRO:HD2	1.56	0.87
1:M:746:ASP:HA	1:M:760:ARG:HG3	1.54	0.87
1:P:746:ASP:HA	1:P:760:ARG:HG3	1.55	0.87
1:I:668:VAL:HG13	1:I:669:PRO:HD2	1.56	0.87
1:O:285:TYR:HB3	1:O:288:ARG:HG3	1.57	0.86
1:B:427:THR:HA	1:B:436:MET:HE1	1.55	0.86
1:C:285:TYR:HB3	1:C:288:ARG:HG3	1.57	0.86
1:G:285:TYR:HB3	1:G:288:ARG:HG3	1.57	0.86
1:H:285:TYR:HB3	1:H:288:ARG:HG3	1.57	0.86
1:J:227:VAL:HG13	1:J:240:LEU:HD11	1.55	0.86
1:A:285:TYR:HB3	1:A:288:ARG:HG3	1.57	0.86
1:C:748:CME:C	1:C:749:ILE:HD13	2.06	0.86
1:J:746:ASP:HA	1:J:760:ARG:HG3	1.54	0.86
1:L:668:VAL:HG13	1:L:669:PRO:HD2	1.56	0.86
1:M:748:CME:C	1:M:749:ILE:HD13	2.06	0.86
1:K:285:TYR:HB3	1:K:288:ARG:HG3	1.57	0.86
1:F:285:TYR:HB3	1:F:288:ARG:HG3	1.57	0.86
1:H:427:THR:HA	1:H:436:MET:HE1	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:746:ASP:HA	1:H:760:ARG:HG3	1.54	0.86
1:N:285:TYR:HB3	1:N:288:ARG:HG3	1.57	0.86
1:O:748:CME:C	1:O:749:ILE:HD13	2.06	0.86
1:P:285:TYR:HB3	1:P:288:ARG:HG3	1.57	0.86
1:A:748:CME:C	1:A:749:ILE:HD13	2.06	0.86
1:J:285:TYR:HB3	1:J:288:ARG:HG3	1.57	0.86
1:K:748:CME:C	1:K:749:ILE:HD13	2.06	0.86
1:B:949:HIS:HD2	1:B:1020:TRP:HE1	1.24	0.86
1:H:748:CME:C	1:H:749:ILE:HD13	2.06	0.86
1:L:285:TYR:HB3	1:L:288:ARG:HG3	1.57	0.86
1:P:227:VAL:HG13	1:P:240:LEU:HD11	1.55	0.86
1:A:418:HIS:O	1:D:282:ARG:HD2	1.75	0.86
1:G:949:HIS:HD2	1:G:1020:TRP:HE1	1.24	0.86
1:D:748:CME:C	1:D:749:ILE:HD13	2.06	0.85
1:E:748:CME:C	1:E:749:ILE:HD13	2.06	0.85
1:I:748:CME:C	1:I:749:ILE:HD13	2.06	0.85
1:P:949:HIS:HD2	1:P:1020:TRP:HE1	1.24	0.85
1:D:227:VAL:HG13	1:D:240:LEU:HD11	1.55	0.85
1:F:748:CME:C	1:F:749:ILE:HD13	2.06	0.85
1:H:227:VAL:HG13	1:H:240:LEU:HD11	1.55	0.85
1:O:949:HIS:HD2	1:O:1020:TRP:HE1	1.24	0.85
1:P:748:CME:C	1:P:749:ILE:HD13	2.06	0.85
1:D:240:LEU:HD12	1:D:241:GLU:N	1.91	0.85
1:H:949:HIS:HD2	1:H:1020:TRP:HE1	1.24	0.85
1:M:285:TYR:HB3	1:M:288:ARG:HG3	1.57	0.85
1:B:285:TYR:HB3	1:B:288:ARG:HG3	1.57	0.85
1:G:748:CME:C	1:G:749:ILE:HD13	2.06	0.85
1:I:949:HIS:HD2	1:I:1020:TRP:HE1	1.24	0.85
1:J:748:CME:C	1:J:749:ILE:HD13	2.06	0.85
1:M:240:LEU:HD12	1:M:241:GLU:N	1.92	0.85
1:O:240:LEU:HD12	1:O:241:GLU:N	1.92	0.85
1:C:63:PHE:HB3	1:C:64:PRO:HD2	1.59	0.85
1:D:285:TYR:HB3	1:D:288:ARG:HG3	1.57	0.85
1:E:285:TYR:HB3	1:E:288:ARG:HG3	1.57	0.85
1:I:63:PHE:HB3	1:I:64:PRO:HD2	1.59	0.85
1:M:425:ARG:HH22	1:P:287:ASP:CG	1.79	0.85
1:C:240:LEU:HD12	1:C:241:GLU:N	1.92	0.85
1:L:748:CME:C	1:L:749:ILE:HD13	2.06	0.85
1:K:240:LEU:HD12	1:K:241:GLU:N	1.92	0.85
1:B:240:LEU:HD12	1:B:241:GLU:N	1.92	0.84
1:H:668:VAL:HG13	1:H:669:PRO:HD2	1.56	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:240:LEU:HD12	1:N:241:GLU:N	1.92	0.84
1:N:748:CME:C	1:N:749:ILE:HD13	2.06	0.84
1:A:63:PHE:HB3	1:A:64:PRO:HD2	1.59	0.84
1:F:63:PHE:HB3	1:F:64:PRO:HD2	1.58	0.84
1:G:240:LEU:HD12	1:G:241:GLU:N	1.91	0.84
1:I:285:TYR:HB3	1:I:288:ARG:HG3	1.57	0.84
1:A:240:LEU:HD12	1:A:241:GLU:N	1.92	0.84
1:B:748:CME:C	1:B:749:ILE:HD13	2.06	0.84
1:D:63:PHE:HB3	1:D:64:PRO:HD2	1.59	0.84
1:E:240:LEU:HD12	1:E:241:GLU:N	1.92	0.84
1:I:240:LEU:HD12	1:I:241:GLU:N	1.92	0.84
1:E:949:HIS:HD2	1:E:1020:TRP:HE1	1.24	0.84
1:N:63:PHE:HB3	1:N:64:PRO:HD2	1.59	0.84
1:P:773:LYS:HB2	1:P:773:LYS:NZ	1.93	0.84
1:A:949:HIS:HD2	1:A:1020:TRP:HE1	1.24	0.84
1:F:240:LEU:HD12	1:F:241:GLU:N	1.92	0.84
1:L:773:LYS:HB2	1:L:773:LYS:NZ	1.93	0.84
1:P:240:LEU:HD12	1:P:241:GLU:N	1.92	0.84
1:M:949:HIS:HD2	1:M:1020:TRP:HE1	1.24	0.84
1:P:65:ALA:HB1	1:P:66:PRO:HD2	1.60	0.84
1:E:65:ALA:HB1	1:E:66:PRO:HD2	1.60	0.84
1:H:773:LYS:NZ	1:H:773:LYS:HB2	1.93	0.84
1:K:63:PHE:HB3	1:K:64:PRO:HD2	1.58	0.84
1:H:65:ALA:HB1	1:H:66:PRO:HD2	1.60	0.84
1:L:240:LEU:HD12	1:L:241:GLU:N	1.92	0.84
1:M:65:ALA:HB1	1:M:66:PRO:HD2	1.60	0.84
1:P:949:HIS:CD2	1:P:1020:TRP:HE1	1.96	0.84
1:P:668:VAL:HG13	1:P:669:PRO:HD2	1.56	0.84
1:D:65:ALA:HB1	1:D:66:PRO:HD2	1.60	0.83
1:H:240:LEU:HD12	1:H:241:GLU:N	1.92	0.83
1:J:949:HIS:CD2	1:J:1020:TRP:HE1	1.96	0.83
1:J:65:ALA:HB1	1:J:66:PRO:HD2	1.60	0.83
1:K:773:LYS:NZ	1:K:773:LYS:HB2	1.93	0.83
1:N:949:HIS:CD2	1:N:1020:TRP:HE1	1.96	0.83
1:I:773:LYS:HB2	1:I:773:LYS:NZ	1.93	0.83
1:L:63:PHE:HB3	1:L:64:PRO:HD2	1.59	0.83
1:P:63:PHE:HB3	1:P:64:PRO:HD2	1.58	0.83
1:A:773:LYS:HB2	1:A:773:LYS:NZ	1.93	0.83
1:N:949:HIS:HD2	1:N:1020:TRP:HE1	1.24	0.83
1:E:63:PHE:HB3	1:E:64:PRO:HD2	1.59	0.83
1:F:949:HIS:HD2	1:F:1020:TRP:HE1	1.24	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:949:HIS:CD2	1:L:1020:TRP:HE1	1.96	0.83
1:N:773:LYS:HB2	1:N:773:LYS:NZ	1.93	0.83
1:C:949:HIS:HD2	1:C:1020:TRP:HE1	1.24	0.83
1:D:949:HIS:HD2	1:D:1020:TRP:HE1	1.24	0.83
1:H:63:PHE:HB3	1:H:64:PRO:HD2	1.59	0.83
1:K:949:HIS:CD2	1:K:1020:TRP:HE1	1.96	0.83
1:M:63:PHE:HB3	1:M:64:PRO:HD2	1.59	0.83
1:K:949:HIS:HD2	1:K:1020:TRP:HE1	1.24	0.83
1:L:949:HIS:HD2	1:L:1020:TRP:HE1	1.24	0.83
1:H:949:HIS:CD2	1:H:1020:TRP:HE1	1.96	0.83
1:J:240:LEU:HD12	1:J:241:GLU:N	1.91	0.83
1:J:773:LYS:NZ	1:J:773:LYS:HB2	1.93	0.83
1:K:65:ALA:HB1	1:K:66:PRO:HD2	1.60	0.83
1:A:282:ARG:HD3	1:D:420:MET:O	1.78	0.83
1:F:65:ALA:HB1	1:F:66:PRO:HD2	1.60	0.83
1:G:949:HIS:CD2	1:G:1020:TRP:HE1	1.96	0.83
1:I:949:HIS:CD2	1:I:1020:TRP:HE1	1.96	0.83
1:A:65:ALA:HB1	1:A:66:PRO:HD2	1.60	0.83
1:E:949:HIS:CD2	1:E:1020:TRP:HE1	1.96	0.82
1:F:949:HIS:CD2	1:F:1020:TRP:HE1	1.96	0.82
1:G:63:PHE:HB3	1:G:64:PRO:HD2	1.59	0.82
1:G:773:LYS:NZ	1:G:773:LYS:HB2	1.93	0.82
1:N:65:ALA:HB1	1:N:66:PRO:HD2	1.60	0.82
1:O:949:HIS:CD2	1:O:1020:TRP:HE1	1.96	0.82
1:B:949:HIS:CD2	1:B:1020:TRP:HE1	1.96	0.82
1:E:773:LYS:NZ	1:E:773:LYS:HB2	1.93	0.82
1:I:65:ALA:HB1	1:I:66:PRO:HD2	1.60	0.82
1:O:773:LYS:NZ	1:O:773:LYS:HB2	1.93	0.82
1:B:773:LYS:NZ	1:B:773:LYS:HB2	1.93	0.82
1:C:949:HIS:CD2	1:C:1020:TRP:HE1	1.96	0.82
1:D:773:LYS:HB2	1:D:773:LYS:NZ	1.93	0.82
1:O:63:PHE:HB3	1:O:64:PRO:HD2	1.59	0.82
1:C:278:ILE:H	1:C:278:ILE:HD12	1.45	0.82
1:G:360:HIS:ND1	1:G:361:PRO:HD2	1.95	0.82
1:A:360:HIS:ND1	1:A:361:PRO:HD2	1.95	0.82
1:A:949:HIS:CD2	1:A:1020:TRP:HE1	1.96	0.82
1:B:63:PHE:HB3	1:B:64:PRO:HD2	1.59	0.82
1:B:65:ALA:HB1	1:B:66:PRO:HD2	1.60	0.82
1:D:949:HIS:CD2	1:D:1020:TRP:HE1	1.96	0.82
1:J:63:PHE:HB3	1:J:64:PRO:HD2	1.59	0.82
1:P:278:ILE:H	1:P:278:ILE:HD12	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:278:ILE:HD12	1:E:278:ILE:H	1.45	0.82
1:F:278:ILE:H	1:F:278:ILE:HD12	1.45	0.82
1:M:278:ILE:HD12	1:M:278:ILE:H	1.45	0.82
1:N:278:ILE:HD12	1:N:278:ILE:H	1.45	0.82
1:E:360:HIS:ND1	1:E:361:PRO:HD2	1.95	0.82
1:F:360:HIS:ND1	1:F:361:PRO:HD2	1.95	0.82
1:M:773:LYS:HB2	1:M:773:LYS:NZ	1.93	0.82
1:B:360:HIS:ND1	1:B:361:PRO:HD2	1.95	0.81
1:L:278:ILE:HD12	1:L:278:ILE:H	1.45	0.81
1:A:425:ARG:HH22	1:D:287:ASP:CG	1.83	0.81
1:D:278:ILE:HD12	1:D:278:ILE:H	1.45	0.81
1:J:316:HIS:HA	1:J:323:ILE:CD1	2.11	0.81
1:M:949:HIS:CD2	1:M:1020:TRP:HE1	1.96	0.81
1:P:316:HIS:HA	1:P:323:ILE:CD1	2.10	0.81
1:P:360:HIS:ND1	1:P:361:PRO:HD2	1.95	0.81
1:H:316:HIS:HA	1:H:323:ILE:CD1	2.11	0.81
1:I:655:MET:HE2	1:I:656:VAL:N	1.96	0.81
1:L:360:HIS:ND1	1:L:361:PRO:HD2	1.95	0.81
1:N:360:HIS:ND1	1:N:361:PRO:HD2	1.95	0.81
1:P:655:MET:HE2	1:P:656:VAL:N	1.96	0.81
1:A:655:MET:HE2	1:A:656:VAL:N	1.96	0.81
1:G:65:ALA:HB1	1:G:66:PRO:HD2	1.60	0.81
1:J:360:HIS:ND1	1:J:361:PRO:HD2	1.95	0.81
1:K:360:HIS:ND1	1:K:361:PRO:HD2	1.95	0.81
1:M:316:HIS:HA	1:M:323:ILE:CD1	2.11	0.81
1:M:360:HIS:ND1	1:M:361:PRO:HD2	1.95	0.81
1:E:316:HIS:HA	1:E:323:ILE:CD1	2.11	0.81
1:F:1021:CME:HE2	1:F:1021:CME:C	2.11	0.81
1:G:316:HIS:HA	1:G:323:ILE:CD1	2.11	0.81
1:I:894:ARG:HH21	1:I:921:PRO:HD3	1.46	0.81
1:L:655:MET:HE2	1:L:656:VAL:N	1.96	0.81
1:M:894:ARG:HH21	1:M:921:PRO:HD3	1.46	0.81
1:O:316:HIS:HA	1:O:323:ILE:CD1	2.11	0.81
1:O:65:ALA:HB1	1:O:66:PRO:HD2	1.60	0.81
1:D:360:HIS:ND1	1:D:361:PRO:HD2	1.95	0.81
1:H:360:HIS:ND1	1:H:361:PRO:HD2	1.95	0.81
1:K:1021:CME:C	1:K:1021:CME:HE2	2.11	0.81
1:O:436:MET:HE3	1:O:467:ASN:HD22	1.45	0.81
1:A:316:HIS:HA	1:A:323:ILE:CD1	2.10	0.81
1:C:773:LYS:HB2	1:C:773:LYS:NZ	1.93	0.81
1:J:278:ILE:HD12	1:J:278:ILE:H	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:316:HIS:HA	1:K:323:ILE:CD1	2.11	0.81
1:L:65:ALA:HB1	1:L:66:PRO:HD2	1.60	0.81
1:L:894:ARG:HH21	1:L:921:PRO:HD3	1.46	0.81
1:B:894:ARG:HH21	1:B:921:PRO:HD3	1.46	0.81
1:D:1021:CME:HE2	1:D:1021:CME:C	2.11	0.81
1:E:894:ARG:HH21	1:E:921:PRO:HD3	1.46	0.81
1:F:655:MET:HE2	1:F:656:VAL:N	1.96	0.81
1:F:894:ARG:HH21	1:F:921:PRO:HD3	1.46	0.81
1:N:316:HIS:HA	1:N:323:ILE:CD1	2.10	0.81
1:O:360:HIS:ND1	1:O:361:PRO:HD2	1.95	0.81
1:E:655:MET:HE2	1:E:656:VAL:N	1.96	0.81
1:F:773:LYS:HB2	1:F:773:LYS:NZ	1.93	0.81
1:G:278:ILE:H	1:G:278:ILE:HD12	1.45	0.81
1:N:894:ARG:HH21	1:N:921:PRO:HD3	1.46	0.81
1:H:655:MET:HE2	1:H:656:VAL:N	1.96	0.81
1:O:655:MET:HE2	1:O:656:VAL:N	1.96	0.81
1:B:655:MET:HE2	1:B:656:VAL:N	1.96	0.80
1:C:360:HIS:ND1	1:C:361:PRO:HD2	1.95	0.80
1:C:65:ALA:HB1	1:C:66:PRO:HD2	1.60	0.80
1:D:655:MET:HE2	1:D:656:VAL:N	1.96	0.80
1:I:436:MET:CE	1:I:467:ASN:HD22	1.94	0.80
1:L:316:HIS:HA	1:L:323:ILE:CD1	2.10	0.80
1:C:1021:CME:HE2	1:C:1021:CME:C	2.11	0.80
1:C:316:HIS:HA	1:C:323:ILE:CD1	2.10	0.80
1:D:316:HIS:HA	1:D:323:ILE:CD1	2.11	0.80
1:I:316:HIS:HA	1:I:323:ILE:CD1	2.10	0.80
1:A:1021:CME:HE2	1:A:1021:CME:C	2.11	0.80
1:E:436:MET:CE	1:E:467:ASN:HD22	1.94	0.80
1:I:360:HIS:ND1	1:I:361:PRO:HD2	1.95	0.80
1:J:43:ARG:NH1	1:J:43:ARG:HG2	1.95	0.80
1:J:890:GLN:HG3	1:J:891:VAL:N	1.97	0.80
1:N:655:MET:HE2	1:N:656:VAL:N	1.96	0.80
1:B:436:MET:CE	1:B:467:ASN:HD22	1.94	0.80
1:C:894:ARG:HH21	1:C:921:PRO:HD3	1.46	0.80
1:H:436:MET:CE	1:H:467:ASN:HD22	1.94	0.80
1:I:1021:CME:HE2	1:I:1021:CME:C	2.11	0.80
1:P:436:MET:CE	1:P:467:ASN:HD22	1.94	0.80
1:A:436:MET:CE	1:A:467:ASN:HD22	1.94	0.80
1:D:894:ARG:HH21	1:D:921:PRO:HD3	1.46	0.80
1:E:1021:CME:HE2	1:E:1021:CME:C	2.11	0.80
1:H:1021:CME:HE2	1:H:1021:CME:C	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1021:CME:HE2	1:N:1021:CME:C	2.11	0.80
1:A:890:GLN:HG3	1:A:891:VAL:N	1.97	0.80
1:B:316:HIS:HA	1:B:323:ILE:CD1	2.10	0.80
1:C:655:MET:HE2	1:C:656:VAL:N	1.96	0.80
1:G:1021:CME:C	1:G:1021:CME:HE2	2.11	0.80
1:H:7:LEU:CD1	1:H:74:LEU:HD11	2.12	0.80
1:H:890:GLN:HG3	1:H:891:VAL:N	1.97	0.80
1:J:949:HIS:HD2	1:J:1020:TRP:HE1	1.24	0.80
1:K:278:ILE:HD12	1:K:278:ILE:H	1.45	0.80
1:K:655:MET:HE2	1:K:656:VAL:N	1.96	0.80
1:K:894:ARG:HH21	1:K:921:PRO:HD3	1.46	0.80
1:L:1021:CME:C	1:L:1021:CME:HE2	2.11	0.80
1:L:7:LEU:CD1	1:L:74:LEU:HD11	2.12	0.80
1:M:436:MET:CE	1:M:467:ASN:HD22	1.95	0.80
1:P:7:LEU:CD1	1:P:74:LEU:HD11	2.12	0.80
1:A:7:LEU:CD1	1:A:74:LEU:HD11	2.12	0.80
1:K:7:LEU:CD1	1:K:74:LEU:HD11	2.12	0.80
1:M:655:MET:HE2	1:M:656:VAL:N	1.96	0.80
1:M:777:LEU:HD21	1:M:889:ALA:HA	1.64	0.80
1:O:1021:CME:C	1:O:1021:CME:HE2	2.11	0.80
1:C:436:MET:CE	1:C:467:ASN:HD22	1.95	0.80
1:A:425:ARG:NH2	1:D:287:ASP:OD2	2.15	0.80
1:D:436:MET:CE	1:D:467:ASN:HD22	1.94	0.80
1:D:7:LEU:CD1	1:D:74:LEU:HD11	2.12	0.80
1:A:278:ILE:H	1:A:278:ILE:HD12	1.45	0.80
1:A:777:LEU:HD21	1:A:889:ALA:HA	1.64	0.80
1:G:436:MET:CE	1:G:467:ASN:HD22	1.94	0.80
1:G:655:MET:HE2	1:G:656:VAL:N	1.96	0.80
1:H:777:LEU:HD21	1:H:889:ALA:HA	1.64	0.80
1:M:1021:CME:C	1:M:1021:CME:HE2	2.11	0.80
1:N:436:MET:CE	1:N:467:ASN:HD22	1.94	0.80
1:P:1021:CME:HE2	1:P:1021:CME:C	2.11	0.80
1:B:890:GLN:HG3	1:B:891:VAL:N	1.97	0.80
1:L:436:MET:CE	1:L:467:ASN:HD22	1.94	0.80
1:P:460:ASN:ND2	1:P:461:GLU:HG3	1.97	0.80
1:B:777:LEU:HD21	1:B:889:ALA:HA	1.64	0.79
1:D:890:GLN:HG3	1:D:891:VAL:N	1.97	0.79
1:E:777:LEU:HD21	1:E:889:ALA:HA	1.64	0.79
1:F:436:MET:CE	1:F:467:ASN:HD22	1.95	0.79
1:F:7:LEU:CD1	1:F:74:LEU:HD11	2.12	0.79
1:I:890:GLN:HG3	1:I:891:VAL:N	1.97	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:655:MET:HE2	1:J:656:VAL:N	1.96	0.79
1:J:7:LEU:CD1	1:J:74:LEU:HD11	2.12	0.79
1:L:460:ASN:ND2	1:L:461:GLU:HG3	1.98	0.79
1:O:436:MET:CE	1:O:467:ASN:HD22	1.94	0.79
1:O:777:LEU:HD21	1:O:889:ALA:HA	1.64	0.79
1:P:128:ASN:ND2	1:P:180:GLY:HA2	1.98	0.79
1:A:128:ASN:ND2	1:A:180:GLY:HA2	1.97	0.79
1:G:777:LEU:HD21	1:G:889:ALA:HA	1.64	0.79
1:K:128:ASN:ND2	1:K:180:GLY:HA2	1.97	0.79
1:N:7:LEU:CD1	1:N:74:LEU:HD11	2.12	0.79
1:P:777:LEU:HD21	1:P:889:ALA:HA	1.64	0.79
1:P:890:GLN:HG3	1:P:891:VAL:N	1.97	0.79
1:B:278:ILE:H	1:B:278:ILE:HD12	1.45	0.79
1:C:460:ASN:ND2	1:C:461:GLU:HG3	1.98	0.79
1:C:7:LEU:CD1	1:C:74:LEU:HD11	2.12	0.79
1:E:18:ASN:ND2	1:E:21:VAL:HG23	1.98	0.79
1:G:7:LEU:CD1	1:G:74:LEU:HD11	2.12	0.79
1:H:278:ILE:H	1:H:278:ILE:HD12	1.45	0.79
1:J:128:ASN:ND2	1:J:180:GLY:HA2	1.98	0.79
1:K:18:ASN:ND2	1:K:21:VAL:HG23	1.98	0.79
1:B:1021:CME:C	1:B:1021:CME:HE2	2.11	0.79
1:H:128:ASN:ND2	1:H:180:GLY:HA2	1.98	0.79
1:M:128:ASN:ND2	1:M:180:GLY:HA2	1.98	0.79
1:C:240:LEU:HD12	1:C:241:GLU:H	1.48	0.79
1:F:316:HIS:HA	1:F:323:ILE:CD1	2.11	0.79
1:F:460:ASN:ND2	1:F:461:GLU:HG3	1.98	0.79
1:F:436:MET:HE3	1:F:467:ASN:HD22	1.47	0.79
1:J:18:ASN:ND2	1:J:21:VAL:HG23	1.98	0.79
1:J:436:MET:CE	1:J:467:ASN:HD22	1.94	0.79
1:K:240:LEU:HD12	1:K:241:GLU:H	1.48	0.79
1:N:18:ASN:ND2	1:N:21:VAL:HG23	1.98	0.79
1:O:7:LEU:CD1	1:O:74:LEU:HD11	2.12	0.79
1:C:18:ASN:ND2	1:C:21:VAL:HG23	1.98	0.79
1:F:18:ASN:ND2	1:F:21:VAL:HG23	1.98	0.79
1:F:78:LEU:HB3	1:F:79:PRO:HD2	1.65	0.79
1:H:18:ASN:ND2	1:H:21:VAL:HG23	1.98	0.79
1:J:1021:CME:HE2	1:J:1021:CME:C	2.11	0.79
1:K:7:LEU:HD13	1:K:74:LEU:HD11	1.65	0.79
1:L:777:LEU:HD21	1:L:889:ALA:HA	1.64	0.79
1:M:18:ASN:ND2	1:M:21:VAL:HG23	1.98	0.79
1:N:7:LEU:HD13	1:N:74:LEU:HD11	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:128:ASN:ND2	1:E:180:GLY:HA2	1.98	0.79
1:K:460:ASN:ND2	1:K:461:GLU:HG3	1.98	0.79
1:L:18:ASN:ND2	1:L:21:VAL:HG23	1.98	0.79
1:L:7:LEU:HD13	1:L:74:LEU:HD11	1.65	0.79
1:N:78:LEU:HB3	1:N:79:PRO:HD2	1.65	0.79
1:N:890:GLN:HG3	1:N:891:VAL:N	1.97	0.79
1:E:7:LEU:CD1	1:E:74:LEU:HD11	2.12	0.79
1:F:128:ASN:ND2	1:F:180:GLY:HA2	1.97	0.79
1:F:7:LEU:HD13	1:F:74:LEU:HD11	1.65	0.79
1:I:240:LEU:HD12	1:I:241:GLU:H	1.48	0.79
1:J:777:LEU:HD21	1:J:889:ALA:HA	1.64	0.79
1:J:7:LEU:HD13	1:J:74:LEU:HD11	1.65	0.79
1:L:128:ASN:ND2	1:L:180:GLY:HA2	1.97	0.79
1:L:78:LEU:HB3	1:L:79:PRO:HD2	1.65	0.79
1:M:7:LEU:CD1	1:M:74:LEU:HD11	2.12	0.79
1:M:7:LEU:HD13	1:M:74:LEU:HD11	1.65	0.79
1:N:777:LEU:HD21	1:N:889:ALA:HA	1.64	0.79
1:B:18:ASN:ND2	1:B:21:VAL:HG23	1.98	0.79
1:E:78:LEU:HB3	1:E:79:PRO:HD2	1.65	0.79
1:G:18:ASN:ND2	1:G:21:VAL:HG23	1.98	0.79
1:K:436:MET:CE	1:K:467:ASN:HD22	1.94	0.79
1:K:777:LEU:HD21	1:K:889:ALA:HA	1.64	0.79
1:M:78:LEU:HB3	1:M:79:PRO:HD2	1.65	0.79
1:N:128:ASN:ND2	1:N:180:GLY:HA2	1.98	0.79
1:N:460:ASN:ND2	1:N:461:GLU:HG3	1.98	0.79
1:O:18:ASN:ND2	1:O:21:VAL:HG23	1.98	0.79
1:B:7:LEU:CD1	1:B:74:LEU:HD11	2.12	0.79
1:B:78:LEU:HB3	1:B:79:PRO:HD2	1.65	0.79
1:D:18:ASN:ND2	1:D:21:VAL:HG23	1.98	0.79
1:I:7:LEU:CD1	1:I:74:LEU:HD11	2.12	0.79
1:J:460:ASN:ND2	1:J:461:GLU:HG3	1.98	0.79
1:L:890:GLN:HG3	1:L:891:VAL:N	1.97	0.79
1:O:128:ASN:ND2	1:O:180:GLY:HA2	1.98	0.79
1:P:894:ARG:HH21	1:P:921:PRO:HD3	1.46	0.79
1:D:240:LEU:HD12	1:D:241:GLU:H	1.48	0.78
1:E:7:LEU:HD13	1:E:74:LEU:HD11	1.65	0.78
1:F:777:LEU:HD21	1:F:889:ALA:HA	1.64	0.78
1:G:128:ASN:ND2	1:G:180:GLY:HA2	1.98	0.78
1:G:890:GLN:HG3	1:G:891:VAL:N	1.97	0.78
1:A:240:LEU:HD12	1:A:241:GLU:H	1.48	0.78
1:A:460:ASN:ND2	1:A:461:GLU:HG3	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:460:ASN:ND2	1:D:461:GLU:HG3	1.98	0.78
1:G:460:ASN:ND2	1:G:461:GLU:HG3	1.98	0.78
1:G:7:LEU:HD13	1:G:74:LEU:HD11	1.65	0.78
1:I:278:ILE:H	1:I:278:ILE:HD12	1.45	0.78
1:A:78:LEU:HB3	1:A:79:PRO:HD2	1.65	0.78
1:E:240:LEU:HD12	1:E:241:GLU:H	1.48	0.78
1:G:894:ARG:HH21	1:G:921:PRO:HD3	1.46	0.78
1:H:460:ASN:ND2	1:H:461:GLU:HG3	1.98	0.78
1:P:18:ASN:ND2	1:P:21:VAL:HG23	1.98	0.78
1:B:7:LEU:HD13	1:B:74:LEU:HD11	1.65	0.78
1:C:128:ASN:ND2	1:C:180:GLY:HA2	1.98	0.78
1:C:43:ARG:HG2	1:C:43:ARG:NH1	1.95	0.78
1:C:651:LEU:HD12	1:C:652:LEU:H	1.49	0.78
1:C:7:LEU:HD13	1:C:74:LEU:HD11	1.65	0.78
1:D:777:LEU:HD21	1:D:889:ALA:HA	1.64	0.78
1:O:7:LEU:HD13	1:O:74:LEU:HD11	1.65	0.78
1:A:18:ASN:ND2	1:A:21:VAL:HG23	1.98	0.78
1:B:240:LEU:HD12	1:B:241:GLU:H	1.48	0.78
1:J:78:LEU:HB3	1:J:79:PRO:HD2	1.65	0.78
1:M:890:GLN:HG3	1:M:891:VAL:N	1.97	0.78
1:B:128:ASN:ND2	1:B:180:GLY:HA2	1.97	0.78
1:D:128:ASN:ND2	1:D:180:GLY:HA2	1.98	0.78
1:O:278:ILE:H	1:O:278:ILE:HD12	1.45	0.78
1:B:460:ASN:ND2	1:B:461:GLU:HG3	1.97	0.78
1:C:436:MET:HE3	1:C:467:ASN:HD22	1.47	0.78
1:C:890:GLN:HG3	1:C:891:VAL:N	1.97	0.78
1:D:400:THR:O	1:D:404:ARG:HG3	1.84	0.78
1:F:651:LEU:HD12	1:F:652:LEU:H	1.49	0.78
1:G:651:LEU:HD12	1:G:652:LEU:H	1.49	0.78
1:G:78:LEU:HB3	1:G:79:PRO:HD2	1.65	0.78
1:H:78:LEU:HB3	1:H:79:PRO:HD2	1.65	0.78
1:J:651:LEU:HD12	1:J:652:LEU:H	1.49	0.78
1:M:460:ASN:ND2	1:M:461:GLU:HG3	1.98	0.78
1:M:53:SER:C	1:M:54:LEU:HD23	2.04	0.78
1:O:651:LEU:HD12	1:O:652:LEU:H	1.49	0.78
1:O:890:GLN:HG3	1:O:891:VAL:N	1.97	0.78
1:D:53:SER:C	1:D:54:LEU:HD23	2.04	0.78
1:E:460:ASN:ND2	1:E:461:GLU:HG3	1.98	0.78
1:G:240:LEU:HD12	1:G:241:GLU:H	1.48	0.78
1:H:651:LEU:HD12	1:H:652:LEU:H	1.49	0.78
1:I:400:THR:O	1:I:404:ARG:HG3	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:78:LEU:HB3	1:I:79:PRO:HD2	1.65	0.78
1:O:78:LEU:HB3	1:O:79:PRO:HD2	1.65	0.78
1:M:282:ARG:HD3	1:P:420:MET:O	1.83	0.78
1:P:78:LEU:HB3	1:P:79:PRO:HD2	1.65	0.78
1:D:651:LEU:HD12	1:D:652:LEU:H	1.49	0.78
1:E:53:SER:C	1:E:54:LEU:HD23	2.04	0.78
1:E:890:GLN:HG3	1:E:891:VAL:N	1.97	0.78
1:H:53:SER:C	1:H:54:LEU:HD23	2.05	0.78
1:I:777:LEU:HD21	1:I:889:ALA:HA	1.64	0.78
1:O:894:ARG:HH21	1:O:921:PRO:HD3	1.46	0.78
1:L:240:LEU:HD12	1:L:241:GLU:H	1.48	0.78
1:L:400:THR:O	1:L:404:ARG:HG3	1.84	0.78
1:F:240:LEU:HD12	1:F:241:GLU:H	1.48	0.77
1:F:53:SER:C	1:F:54:LEU:HD23	2.05	0.77
1:G:43:ARG:NH1	1:G:43:ARG:HG2	1.96	0.77
1:I:460:ASN:ND2	1:I:461:GLU:HG3	1.98	0.77
1:M:240:LEU:HD12	1:M:241:GLU:H	1.48	0.77
1:N:240:LEU:HD12	1:N:241:GLU:H	1.48	0.77
1:O:43:ARG:HG2	1:O:43:ARG:NH1	1.95	0.77
1:I:18:ASN:ND2	1:I:21:VAL:HG23	1.98	0.77
1:K:890:GLN:HG3	1:K:891:VAL:N	1.97	0.77
1:B:651:LEU:HD12	1:B:652:LEU:H	1.49	0.77
1:E:43:ARG:NH1	1:E:43:ARG:HG2	1.95	0.77
1:E:651:LEU:HD12	1:E:652:LEU:H	1.49	0.77
1:M:400:THR:O	1:M:404:ARG:HG3	1.84	0.77
1:C:53:SER:C	1:C:54:LEU:HD23	2.04	0.77
1:F:662:PRO:C	1:F:663:LEU:HD23	2.05	0.77
1:I:128:ASN:ND2	1:I:180:GLY:HA2	1.97	0.77
1:I:53:SER:C	1:I:54:LEU:HD23	2.05	0.77
1:K:651:LEU:HD12	1:K:652:LEU:H	1.49	0.77
1:B:46:ARG:NH1	1:B:46:ARG:HG3	2.00	0.77
1:F:46:ARG:HG3	1:F:46:ARG:NH1	2.00	0.77
1:G:682:LEU:HD22	1:G:683:PRO:HD2	1.67	0.77
1:J:46:ARG:NH1	1:J:46:ARG:HG3	2.00	0.77
1:K:400:THR:O	1:K:404:ARG:HG3	1.84	0.77
1:N:400:THR:O	1:N:404:ARG:HG3	1.84	0.77
1:N:46:ARG:HG3	1:N:46:ARG:NH1	2.00	0.77
1:A:400:THR:O	1:A:404:ARG:HG3	1.84	0.77
1:A:53:SER:C	1:A:54:LEU:HD23	2.05	0.77
1:A:894:ARG:HH21	1:A:921:PRO:HD3	1.46	0.77
1:D:78:LEU:HB3	1:D:79:PRO:HD2	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:682:LEU:HD22	1:F:683:PRO:HD2	1.67	0.77
1:H:240:LEU:HD12	1:H:241:GLU:H	1.48	0.77
1:K:53:SER:C	1:K:54:LEU:HD23	2.05	0.77
1:M:651:LEU:HD12	1:M:652:LEU:H	1.49	0.77
1:N:682:LEU:HD22	1:N:683:PRO:HD2	1.67	0.77
1:O:53:SER:C	1:O:54:LEU:HD23	2.04	0.77
1:O:682:LEU:HD22	1:O:683:PRO:HD2	1.67	0.77
1:P:240:LEU:HD12	1:P:241:GLU:H	1.48	0.77
1:P:400:THR:O	1:P:404:ARG:HG3	1.84	0.77
1:A:46:ARG:HG3	1:A:46:ARG:NH1	2.00	0.77
1:A:662:PRO:C	1:A:663:LEU:HD23	2.05	0.77
1:B:53:SER:C	1:B:54:LEU:HD23	2.05	0.77
1:B:662:PRO:C	1:B:663:LEU:HD23	2.05	0.77
1:C:662:PRO:C	1:C:663:LEU:HD23	2.05	0.77
1:F:400:THR:O	1:F:404:ARG:HG3	1.84	0.77
1:G:53:SER:C	1:G:54:LEU:HD23	2.05	0.77
1:N:53:SER:C	1:N:54:LEU:HD23	2.05	0.77
1:B:43:ARG:HG2	1:B:43:ARG:NH1	1.95	0.77
1:C:78:LEU:HB3	1:C:79:PRO:HD2	1.65	0.77
1:E:400:THR:O	1:E:404:ARG:HG3	1.84	0.77
1:G:400:THR:O	1:G:404:ARG:HG3	1.84	0.77
1:I:7:LEU:HD13	1:I:74:LEU:HD11	1.65	0.77
1:J:240:LEU:HD12	1:J:241:GLU:H	1.48	0.77
1:J:53:SER:C	1:J:54:LEU:HD23	2.05	0.77
1:K:78:LEU:HB3	1:K:79:PRO:HD2	1.65	0.77
1:L:46:ARG:HG3	1:L:46:ARG:NH1	2.00	0.77
1:L:662:PRO:C	1:L:663:LEU:HD23	2.05	0.77
1:M:662:PRO:C	1:M:663:LEU:HD23	2.05	0.77
1:A:189:LEU:HD23	1:A:189:LEU:N	2.00	0.77
1:B:400:THR:O	1:B:404:ARG:HG3	1.84	0.77
1:C:777:LEU:HD21	1:C:889:ALA:HA	1.64	0.77
1:F:890:GLN:HG3	1:F:891:VAL:N	1.97	0.77
1:M:682:LEU:HD22	1:M:683:PRO:HD2	1.67	0.77
1:O:460:ASN:ND2	1:O:461:GLU:HG3	1.98	0.77
1:P:53:SER:C	1:P:54:LEU:HD23	2.05	0.77
1:D:7:LEU:HD13	1:D:74:LEU:HD11	1.65	0.77
1:H:662:PRO:C	1:H:663:LEU:HD23	2.05	0.77
1:J:400:THR:O	1:J:404:ARG:HG3	1.84	0.77
1:N:651:LEU:HD12	1:N:652:LEU:H	1.49	0.77
1:O:189:LEU:N	1:O:189:LEU:HD23	2.00	0.77
1:A:651:LEU:HD12	1:A:652:LEU:H	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:682:LEU:HD22	1:E:683:PRO:HD2	1.67	0.76
1:G:662:PRO:C	1:G:663:LEU:HD23	2.05	0.76
1:H:189:LEU:N	1:H:189:LEU:HD23	2.00	0.76
1:H:894:ARG:HH21	1:H:921:PRO:HD3	1.46	0.76
1:I:189:LEU:HD23	1:I:189:LEU:N	2.00	0.76
1:I:673:ALA:HB1	1:I:674:PRO:HD2	1.67	0.76
1:J:894:ARG:HH21	1:J:921:PRO:HD3	1.46	0.76
1:K:920:LEU:HB3	1:K:921:PRO:HD2	1.67	0.76
1:L:920:LEU:HB3	1:L:921:PRO:HD2	1.67	0.76
1:M:189:LEU:N	1:M:189:LEU:HD23	2.00	0.76
1:A:673:ALA:HB1	1:A:674:PRO:HD2	1.67	0.76
1:A:7:LEU:HD13	1:A:74:LEU:HD11	1.65	0.76
1:C:673:ALA:HB1	1:C:674:PRO:HD2	1.68	0.76
1:D:189:LEU:HD23	1:D:189:LEU:N	2.00	0.76
1:D:662:PRO:C	1:D:663:LEU:HD23	2.05	0.76
1:E:662:PRO:C	1:E:663:LEU:HD23	2.05	0.76
1:N:662:PRO:C	1:N:663:LEU:HD23	2.05	0.76
1:L:53:SER:C	1:L:54:LEU:HD23	2.05	0.76
1:L:682:LEU:HD22	1:L:683:PRO:HD2	1.67	0.76
1:O:400:THR:O	1:O:404:ARG:HG3	1.84	0.76
1:B:682:LEU:HD22	1:B:683:PRO:HD2	1.67	0.76
1:D:43:ARG:HG2	1:D:43:ARG:NH1	1.95	0.76
1:D:920:LEU:HB3	1:D:921:PRO:HD2	1.67	0.76
1:E:360:HIS:HE1	1:E:362:LEU:HB2	1.51	0.76
1:I:651:LEU:HD12	1:I:652:LEU:H	1.49	0.76
1:O:662:PRO:C	1:O:663:LEU:HD23	2.05	0.76
1:C:46:ARG:HG3	1:C:46:ARG:NH1	2.00	0.76
1:I:682:LEU:HD22	1:I:683:PRO:HD2	1.67	0.76
1:J:673:ALA:HB1	1:J:674:PRO:HD2	1.68	0.76
1:K:682:LEU:HD22	1:K:683:PRO:HD2	1.67	0.76
1:L:651:LEU:HD12	1:L:652:LEU:H	1.49	0.76
1:M:46:ARG:NH1	1:M:46:ARG:HG3	2.00	0.76
1:P:189:LEU:HD23	1:P:189:LEU:N	2.00	0.76
1:A:920:LEU:HB3	1:A:921:PRO:HD2	1.67	0.76
1:C:682:LEU:HD22	1:C:683:PRO:HD2	1.67	0.76
1:E:46:ARG:HG3	1:E:46:ARG:NH1	2.00	0.76
1:G:46:ARG:HG3	1:G:46:ARG:NH1	2.00	0.76
1:J:189:LEU:N	1:J:189:LEU:HD23	2.00	0.76
1:K:189:LEU:HD23	1:K:189:LEU:N	2.00	0.76
1:L:673:ALA:HB1	1:L:674:PRO:HD2	1.68	0.76
1:P:651:LEU:HD12	1:P:652:LEU:H	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:360:HIS:HE1	1:C:362:LEU:HB2	1.51	0.76
1:I:46:ARG:HG3	1:I:46:ARG:NH1	2.00	0.76
1:J:920:LEU:HB3	1:J:921:PRO:HD2	1.67	0.76
1:O:240:LEU:HD12	1:O:241:GLU:H	1.48	0.76
1:O:46:ARG:HG3	1:O:46:ARG:NH1	2.00	0.76
1:H:400:THR:O	1:H:404:ARG:HG3	1.84	0.76
1:J:662:PRO:C	1:J:663:LEU:HD23	2.05	0.76
1:N:673:ALA:HB1	1:N:674:PRO:HD2	1.68	0.76
1:F:673:ALA:HB1	1:F:674:PRO:HD2	1.68	0.76
1:P:682:LEU:HD22	1:P:683:PRO:HD2	1.67	0.76
1:E:189:LEU:HD23	1:E:189:LEU:N	2.00	0.76
1:E:920:LEU:HB3	1:E:921:PRO:HD2	1.67	0.76
1:G:189:LEU:HD23	1:G:189:LEU:N	2.00	0.76
1:K:662:PRO:C	1:K:663:LEU:HD23	2.05	0.76
1:C:400:THR:O	1:C:404:ARG:HG3	1.84	0.75
1:F:189:LEU:N	1:F:189:LEU:HD23	2.00	0.75
1:I:662:PRO:C	1:I:663:LEU:HD23	2.05	0.75
1:K:43:ARG:NH1	1:K:43:ARG:HG2	1.95	0.75
1:L:189:LEU:HD23	1:L:189:LEU:N	2.00	0.75
1:O:673:ALA:HB1	1:O:674:PRO:HD2	1.68	0.75
1:P:7:LEU:HD13	1:P:74:LEU:HD11	1.65	0.75
1:B:360:HIS:HE1	1:B:362:LEU:HB2	1.51	0.75
1:G:673:ALA:HB1	1:G:674:PRO:HD2	1.68	0.75
1:H:673:ALA:HB1	1:H:674:PRO:HD2	1.67	0.75
1:I:920:LEU:HB3	1:I:921:PRO:HD2	1.67	0.75
1:M:673:ALA:HB1	1:M:674:PRO:HD2	1.67	0.75
1:N:189:LEU:HD23	1:N:189:LEU:N	2.00	0.75
1:O:920:LEU:HB3	1:O:921:PRO:HD2	1.67	0.75
1:C:920:LEU:HB3	1:C:921:PRO:HD2	1.67	0.75
1:G:920:LEU:HB3	1:G:921:PRO:HD2	1.67	0.75
1:P:46:ARG:HG3	1:P:46:ARG:NH1	2.00	0.75
1:A:436:MET:HE3	1:A:467:ASN:HD22	1.50	0.75
1:D:673:ALA:HB1	1:D:674:PRO:HD2	1.68	0.75
1:H:682:LEU:HD22	1:H:683:PRO:HD2	1.67	0.75
1:N:920:LEU:HB3	1:N:921:PRO:HD2	1.67	0.75
1:P:662:PRO:C	1:P:663:LEU:HD23	2.05	0.75
1:H:43:ARG:NH1	1:H:43:ARG:HG2	1.95	0.75
1:B:189:LEU:HD23	1:B:189:LEU:N	2.00	0.75
1:B:920:LEU:HB3	1:B:921:PRO:HD2	1.67	0.75
1:D:360:HIS:HE1	1:D:362:LEU:HB2	1.51	0.75
1:F:920:LEU:HB3	1:F:921:PRO:HD2	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:7:LEU:HD13	1:H:74:LEU:HD11	1.65	0.75
1:A:682:LEU:HD22	1:A:683:PRO:HD2	1.67	0.75
1:E:673:ALA:HB1	1:E:674:PRO:HD2	1.68	0.75
1:M:920:LEU:HB3	1:M:921:PRO:HD2	1.67	0.75
1:D:682:LEU:HD22	1:D:683:PRO:HD2	1.67	0.75
1:J:682:LEU:HD22	1:J:683:PRO:HD2	1.67	0.75
1:L:43:ARG:HG2	1:L:43:ARG:NH1	1.95	0.75
1:P:673:ALA:HB1	1:P:674:PRO:HD2	1.68	0.75
1:A:701:VAL:O	1:A:703:PRO:HD3	1.87	0.74
1:C:189:LEU:HD23	1:C:189:LEU:N	2.00	0.74
1:D:69:VAL:HG13	1:D:70:PRO:HD2	1.69	0.74
1:I:701:VAL:O	1:I:703:PRO:HD3	1.87	0.74
1:J:69:VAL:HG13	1:J:70:PRO:HD2	1.69	0.74
1:L:360:HIS:HE1	1:L:362:LEU:HB2	1.51	0.74
1:F:701:VAL:O	1:F:703:PRO:HD3	1.87	0.74
1:J:773:LYS:HB2	1:J:773:LYS:HZ3	1.51	0.74
1:K:46:ARG:NH1	1:K:46:ARG:HG3	2.00	0.74
1:P:920:LEU:HB3	1:P:921:PRO:HD2	1.67	0.74
1:D:701:VAL:O	1:D:703:PRO:HD3	1.87	0.74
1:P:69:VAL:HG13	1:P:70:PRO:HD2	1.69	0.74
1:A:43:ARG:NH1	1:A:43:ARG:HG2	1.95	0.74
1:B:673:ALA:HB1	1:B:674:PRO:HD2	1.67	0.74
1:H:46:ARG:HG3	1:H:46:ARG:NH1	2.00	0.74
1:H:69:VAL:HG13	1:H:70:PRO:HD2	1.69	0.74
1:H:920:LEU:HB3	1:H:921:PRO:HD2	1.67	0.74
1:K:360:HIS:HE1	1:K:362:LEU:HB2	1.51	0.74
1:K:701:VAL:O	1:K:703:PRO:HD3	1.87	0.74
1:C:701:VAL:O	1:C:703:PRO:HD3	1.87	0.74
1:E:69:VAL:HG13	1:E:70:PRO:HD2	1.69	0.74
1:J:360:HIS:HE1	1:J:362:LEU:HB2	1.51	0.74
1:K:69:VAL:HG13	1:K:70:PRO:HD2	1.69	0.74
1:A:745:MET:HE2	1:A:745:MET:HA	1.70	0.74
1:K:952:ARG:HH11	1:K:952:ARG:HB3	1.53	0.74
1:N:701:VAL:O	1:N:703:PRO:HD3	1.87	0.74
1:B:701:VAL:O	1:B:703:PRO:HD3	1.87	0.74
1:J:701:VAL:O	1:J:703:PRO:HD3	1.87	0.74
1:K:673:ALA:HB1	1:K:674:PRO:HD2	1.67	0.74
1:M:69:VAL:HG13	1:M:70:PRO:HD2	1.69	0.74
1:A:622:HIS:O	1:A:625:GLN:HG2	1.88	0.74
1:C:69:VAL:HG13	1:C:70:PRO:HD2	1.69	0.74
1:D:46:ARG:HG3	1:D:46:ARG:NH1	2.00	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:952:ARG:HB3	1:E:952:ARG:HH11	1.53	0.74
1:F:188:VAL:C	1:F:189:LEU:HD23	2.09	0.74
1:G:745:MET:HE2	1:G:745:MET:HA	1.70	0.74
1:H:701:VAL:O	1:H:703:PRO:HD3	1.87	0.74
1:O:745:MET:HE2	1:O:745:MET:HA	1.70	0.74
1:P:701:VAL:O	1:P:703:PRO:HD3	1.87	0.74
1:B:188:VAL:C	1:B:189:LEU:HD23	2.09	0.73
1:F:622:HIS:O	1:F:625:GLN:HG2	1.88	0.73
1:I:188:VAL:C	1:I:189:LEU:HD23	2.09	0.73
1:G:188:VAL:C	1:G:189:LEU:HD23	2.09	0.73
1:J:952:ARG:HB3	1:J:952:ARG:HH11	1.53	0.73
1:L:188:VAL:C	1:L:189:LEU:HD23	2.09	0.73
1:N:188:VAL:C	1:N:189:LEU:HD23	2.09	0.73
1:O:701:VAL:O	1:O:703:PRO:HD3	1.87	0.73
1:P:188:VAL:C	1:P:189:LEU:HD23	2.09	0.73
1:D:952:ARG:HH11	1:D:952:ARG:HB3	1.53	0.73
1:E:622:HIS:O	1:E:625:GLN:HG2	1.88	0.73
1:I:69:VAL:HG13	1:I:70:PRO:HD2	1.69	0.73
1:K:622:HIS:O	1:K:625:GLN:HG2	1.88	0.73
1:L:436:MET:HE3	1:L:467:ASN:HD22	1.53	0.73
1:O:188:VAL:C	1:O:189:LEU:HD23	2.09	0.73
1:O:69:VAL:HG13	1:O:70:PRO:HD2	1.69	0.73
1:P:952:ARG:HB3	1:P:952:ARG:HH11	1.53	0.73
1:B:69:VAL:HG13	1:B:70:PRO:HD2	1.69	0.73
1:C:952:ARG:HH11	1:C:952:ARG:HB3	1.53	0.73
1:G:69:VAL:HG13	1:G:70:PRO:HD2	1.69	0.73
1:M:952:ARG:HB3	1:M:952:ARG:HH11	1.53	0.73
1:P:436:MET:HE3	1:P:467:ASN:HD22	1.53	0.73
1:F:360:HIS:HE1	1:F:362:LEU:HB2	1.51	0.73
1:G:622:HIS:O	1:G:625:GLN:HG2	1.88	0.73
1:B:622:HIS:O	1:B:625:GLN:HG2	1.88	0.73
1:G:952:ARG:HH11	1:G:952:ARG:HB3	1.53	0.73
1:A:952:ARG:HH11	1:A:952:ARG:HB3	1.53	0.73
1:L:701:VAL:O	1:L:703:PRO:HD3	1.87	0.73
1:O:622:HIS:O	1:O:625:GLN:HG2	1.88	0.73
1:A:69:VAL:HG13	1:A:70:PRO:HD2	1.69	0.73
1:E:701:VAL:O	1:E:703:PRO:HD3	1.87	0.73
1:F:802:ASP:OD1	1:F:803:PRO:HD2	1.89	0.73
1:G:30:HIS:HB2	1:G:31:PRO:HD2	1.71	0.73
1:N:802:ASP:OD1	1:N:803:PRO:HD2	1.89	0.73
1:O:30:HIS:HB2	1:O:31:PRO:HD2	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:622:HIS:O	1:C:625:GLN:HG2	1.88	0.73
1:G:802:ASP:OD1	1:G:803:PRO:HD2	1.89	0.73
1:I:622:HIS:O	1:I:625:GLN:HG2	1.88	0.73
1:L:622:HIS:O	1:L:625:GLN:HG2	1.88	0.73
1:L:952:ARG:HH11	1:L:952:ARG:HB3	1.53	0.73
1:N:568:TRP:HE1	1:N:604:ASN:HD22	1.37	0.73
1:D:622:HIS:O	1:D:625:GLN:HG2	1.88	0.73
1:F:434:PRO:HB3	1:G:434:PRO:HB3	1.71	0.73
1:F:952:ARG:HB3	1:F:952:ARG:HH11	1.53	0.73
1:G:701:VAL:O	1:G:703:PRO:HD3	1.87	0.73
1:H:568:TRP:HE1	1:H:604:ASN:HD22	1.37	0.73
1:I:802:ASP:OD1	1:I:803:PRO:HD2	1.89	0.73
1:K:188:VAL:C	1:K:189:LEU:HD23	2.09	0.73
1:L:69:VAL:HG13	1:L:70:PRO:HD2	1.69	0.73
1:B:251:ARG:HB3	1:B:253:TYR:CE2	2.25	0.72
1:C:188:VAL:C	1:C:189:LEU:HD23	2.09	0.72
1:F:568:TRP:HE1	1:F:604:ASN:HD22	1.37	0.72
1:K:1021:CME:HZ3	1:K:1022:GLN:O	1.89	0.72
1:M:30:HIS:HB2	1:M:31:PRO:HD2	1.71	0.72
1:N:622:HIS:O	1:N:625:GLN:HG2	1.88	0.72
1:P:43:ARG:HG2	1:P:43:ARG:NH1	1.95	0.72
1:P:568:TRP:HE1	1:P:604:ASN:HD22	1.37	0.72
1:D:251:ARG:HB3	1:D:253:TYR:CE2	2.25	0.72
1:E:30:HIS:HB2	1:E:31:PRO:HD2	1.71	0.72
1:M:802:ASP:OD1	1:M:803:PRO:HD2	1.89	0.72
1:B:30:HIS:HB2	1:B:31:PRO:HD2	1.71	0.72
1:B:802:ASP:OD1	1:B:803:PRO:HD2	1.89	0.72
1:B:952:ARG:HB3	1:B:952:ARG:HH11	1.53	0.72
1:J:188:VAL:C	1:J:189:LEU:HD23	2.09	0.72
1:K:30:HIS:HB2	1:K:31:PRO:HD2	1.71	0.72
1:M:622:HIS:O	1:M:625:GLN:HG2	1.88	0.72
1:M:701:VAL:O	1:M:703:PRO:HD3	1.87	0.72
1:N:30:HIS:HB2	1:N:31:PRO:HD2	1.71	0.72
1:N:952:ARG:HB3	1:N:952:ARG:HH11	1.53	0.72
1:P:360:HIS:HE1	1:P:362:LEU:HB2	1.51	0.72
1:D:188:VAL:C	1:D:189:LEU:HD23	2.09	0.72
1:D:30:HIS:HB2	1:D:31:PRO:HD2	1.71	0.72
1:H:622:HIS:O	1:H:625:GLN:HG2	1.88	0.72
1:L:1021:CME:HZ3	1:L:1022:GLN:O	1.89	0.72
1:N:1021:CME:HZ3	1:N:1022:GLN:O	1.89	0.72
1:B:568:TRP:HE1	1:B:604:ASN:HD22	1.37	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:251:ARG:HB3	1:G:253:TYR:CE2	2.25	0.72
1:I:745:MET:HA	1:I:745:MET:HE2	1.69	0.72
1:J:30:HIS:HB2	1:J:31:PRO:HD2	1.71	0.72
1:J:622:HIS:O	1:J:625:GLN:HG2	1.88	0.72
1:L:802:ASP:OD1	1:L:803:PRO:HD2	1.89	0.72
1:A:188:VAL:C	1:A:189:LEU:HD23	2.09	0.72
1:A:802:ASP:OD1	1:A:803:PRO:HD2	1.89	0.72
1:B:1021:CME:HZ3	1:B:1022:GLN:O	1.89	0.72
1:C:251:ARG:HB3	1:C:253:TYR:CE2	2.25	0.72
1:F:30:HIS:HB2	1:F:31:PRO:HD2	1.71	0.72
1:J:745:MET:HA	1:J:745:MET:HE2	1.72	0.72
1:M:188:VAL:C	1:M:189:LEU:HD23	2.09	0.72
1:O:952:ARG:HB3	1:O:952:ARG:HH11	1.53	0.72
1:E:251:ARG:HB3	1:E:253:TYR:CE2	2.25	0.72
1:H:188:VAL:C	1:H:189:LEU:HD23	2.09	0.72
1:I:651:LEU:HD12	1:I:652:LEU:N	2.05	0.72
1:K:802:ASP:OD1	1:K:803:PRO:HD2	1.89	0.72
1:L:30:HIS:HB2	1:L:31:PRO:HD2	1.71	0.72
1:B:651:LEU:HD12	1:B:652:LEU:N	2.05	0.72
1:C:802:ASP:OD1	1:C:803:PRO:HD2	1.89	0.72
1:F:69:VAL:HG13	1:F:70:PRO:HD2	1.69	0.72
1:I:360:HIS:HE1	1:I:362:LEU:HB2	1.51	0.72
1:N:251:ARG:HB3	1:N:253:TYR:CE2	2.25	0.72
1:A:568:TRP:HE1	1:A:604:ASN:HD22	1.37	0.72
1:D:568:TRP:HE1	1:D:604:ASN:HD22	1.37	0.72
1:D:802:ASP:OD1	1:D:803:PRO:HD2	1.89	0.72
1:E:188:VAL:C	1:E:189:LEU:HD23	2.09	0.72
1:G:651:LEU:HD12	1:G:652:LEU:N	2.05	0.72
1:H:651:LEU:HD12	1:H:652:LEU:N	2.05	0.72
1:H:952:ARG:HH11	1:H:952:ARG:HB3	1.53	0.72
1:M:251:ARG:HB3	1:M:253:TYR:CE2	2.25	0.72
1:M:360:HIS:HE1	1:M:362:LEU:HB2	1.51	0.72
1:N:69:VAL:HG13	1:N:70:PRO:HD2	1.69	0.72
1:O:1021:CME:HZ3	1:O:1022:GLN:O	1.89	0.72
1:O:251:ARG:HB3	1:O:253:TYR:CE2	2.25	0.72
1:O:802:ASP:OD1	1:O:803:PRO:HD2	1.89	0.72
1:P:1021:CME:HZ3	1:P:1022:GLN:O	1.89	0.72
1:A:251:ARG:HB3	1:A:253:TYR:CE2	2.25	0.72
1:C:30:HIS:HB2	1:C:31:PRO:HD2	1.71	0.72
1:C:568:TRP:HE1	1:C:604:ASN:HD22	1.37	0.72
1:D:1021:CME:HZ3	1:D:1022:GLN:O	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:714:ILE:N	1:D:714:ILE:HD13	2.05	0.72
1:G:1021:CME:HZ3	1:G:1022:GLN:O	1.89	0.72
1:H:1021:CME:HZ3	1:H:1022:GLN:O	1.89	0.72
1:I:251:ARG:HB3	1:I:253:TYR:CE2	2.25	0.72
1:I:952:ARG:HB3	1:I:952:ARG:HH11	1.53	0.72
1:P:622:HIS:O	1:P:625:GLN:HG2	1.88	0.72
1:D:745:MET:HE2	1:D:745:MET:HA	1.71	0.71
1:E:773:LYS:HZ3	1:E:773:LYS:HB2	1.55	0.71
1:F:1021:CME:HZ3	1:F:1022:GLN:O	1.89	0.71
1:F:251:ARG:HB3	1:F:253:TYR:CE2	2.25	0.71
1:G:568:TRP:HE1	1:G:604:ASN:HD22	1.37	0.71
1:H:11:LEU:HD23	1:H:11:LEU:N	2.05	0.71
1:J:251:ARG:HB3	1:J:253:TYR:CE2	2.25	0.71
1:O:114:VAL:HG13	1:O:115:PRO:HD2	1.72	0.71
1:P:802:ASP:OD1	1:P:803:PRO:HD2	1.89	0.71
1:G:114:VAL:HG13	1:G:115:PRO:HD2	1.72	0.71
1:H:745:MET:HE2	1:H:745:MET:HA	1.72	0.71
1:K:714:ILE:N	1:K:714:ILE:HD13	2.05	0.71
1:K:745:MET:HE2	1:K:745:MET:HA	1.72	0.71
1:M:651:LEU:HD12	1:M:652:LEU:N	2.05	0.71
1:N:360:HIS:HE1	1:N:362:LEU:HB2	1.51	0.71
1:A:1021:CME:HZ3	1:A:1022:GLN:O	1.89	0.71
1:A:11:LEU:N	1:A:11:LEU:HD23	2.05	0.71
1:B:114:VAL:HG13	1:B:115:PRO:HD2	1.72	0.71
1:E:568:TRP:HE1	1:E:604:ASN:HD22	1.37	0.71
1:H:714:ILE:N	1:H:714:ILE:HD13	2.05	0.71
1:J:1021:CME:HZ3	1:J:1022:GLN:O	1.89	0.71
1:K:11:LEU:N	1:K:11:LEU:HD23	2.05	0.71
1:K:251:ARG:HB3	1:K:253:TYR:CE2	2.25	0.71
1:L:114:VAL:HG13	1:L:115:PRO:HD2	1.72	0.71
1:O:568:TRP:HE1	1:O:604:ASN:HD22	1.37	0.71
1:A:377:LEU:HD23	1:A:377:LEU:N	2.05	0.71
1:G:11:LEU:N	1:G:11:LEU:HD23	2.05	0.71
1:H:128:ASN:HD21	1:H:180:GLY:HA2	1.56	0.71
1:I:114:VAL:HG13	1:I:115:PRO:HD2	1.73	0.71
1:J:128:ASN:HD21	1:J:180:GLY:HA2	1.56	0.71
1:L:128:ASN:HD21	1:L:180:GLY:HA2	1.56	0.71
1:M:128:ASN:HD21	1:M:180:GLY:HA2	1.56	0.71
1:A:114:VAL:HG13	1:A:115:PRO:HD2	1.72	0.71
1:A:128:ASN:HD21	1:A:180:GLY:HA2	1.56	0.71
1:B:46:ARG:HH11	1:B:46:ARG:HG3	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1021:CME:HZ3	1:C:1022:GLN:O	1.89	0.71
1:F:571:VAL:HG13	1:F:607:VAL:HG23	1.73	0.71
1:H:360:HIS:HE1	1:H:362:LEU:HB2	1.51	0.71
1:L:251:ARG:HB3	1:L:253:TYR:CE2	2.25	0.71
1:M:11:LEU:N	1:M:11:LEU:HD23	2.05	0.71
1:O:11:LEU:N	1:O:11:LEU:HD23	2.05	0.71
1:P:651:LEU:HD12	1:P:652:LEU:N	2.05	0.71
1:C:651:LEU:HD12	1:C:652:LEU:N	2.05	0.71
1:E:128:ASN:HD21	1:E:180:GLY:HA2	1.56	0.71
1:E:714:ILE:HD13	1:E:714:ILE:N	2.05	0.71
1:H:251:ARG:HB3	1:H:253:TYR:CE2	2.25	0.71
1:H:802:ASP:OD1	1:H:803:PRO:HD2	1.89	0.71
1:J:651:LEU:HD12	1:J:652:LEU:N	2.05	0.71
1:J:714:ILE:N	1:J:714:ILE:HD13	2.05	0.71
1:J:802:ASP:OD1	1:J:803:PRO:HD2	1.89	0.71
1:M:568:TRP:HE1	1:M:604:ASN:HD22	1.37	0.71
1:M:745:MET:HA	1:M:745:MET:HE2	1.72	0.71
1:N:571:VAL:HG13	1:N:607:VAL:HG23	1.73	0.71
1:P:251:ARG:HB3	1:P:253:TYR:CE2	2.24	0.71
1:B:377:LEU:N	1:B:377:LEU:HD23	2.06	0.71
1:E:1021:CME:HZ3	1:E:1022:GLN:O	1.89	0.71
1:E:651:LEU:HD12	1:E:652:LEU:N	2.05	0.71
1:F:377:LEU:HD23	1:F:377:LEU:N	2.05	0.71
1:K:114:VAL:HG13	1:K:115:PRO:HD2	1.72	0.71
1:M:571:VAL:HG13	1:M:607:VAL:HG23	1.73	0.71
1:N:377:LEU:HD23	1:N:377:LEU:N	2.06	0.71
1:P:128:ASN:HD21	1:P:180:GLY:HA2	1.56	0.71
1:P:30:HIS:HB2	1:P:31:PRO:HD2	1.71	0.71
1:A:714:ILE:HD13	1:A:714:ILE:N	2.05	0.71
1:E:11:LEU:N	1:E:11:LEU:HD23	2.05	0.71
1:E:571:VAL:HG13	1:E:607:VAL:HG23	1.73	0.71
1:G:377:LEU:HD23	1:G:377:LEU:N	2.06	0.71
1:H:30:HIS:HB2	1:H:31:PRO:HD2	1.71	0.71
1:M:114:VAL:HG13	1:M:115:PRO:HD2	1.72	0.71
1:O:377:LEU:N	1:O:377:LEU:HD23	2.06	0.71
1:A:30:HIS:HB2	1:A:31:PRO:HD2	1.71	0.71
1:C:377:LEU:N	1:C:377:LEU:HD23	2.06	0.71
1:D:128:ASN:HD21	1:D:180:GLY:HA2	1.56	0.71
1:G:46:ARG:HG3	1:G:46:ARG:HH11	1.56	0.71
1:I:1021:CME:HZ3	1:I:1022:GLN:O	1.89	0.71
1:L:571:VAL:HG13	1:L:607:VAL:HG23	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:571:VAL:HG13	1:O:607:VAL:HG23	1.73	0.71
1:O:651:LEU:HD12	1:O:652:LEU:N	2.05	0.71
1:B:714:ILE:HD13	1:B:714:ILE:N	2.05	0.71
1:D:11:LEU:HD23	1:D:11:LEU:N	2.05	0.71
1:I:46:ARG:HH11	1:I:46:ARG:HG3	1.56	0.71
1:M:1021:CME:HZ3	1:M:1022:GLN:O	1.89	0.71
1:M:681:GLU:OE2	1:M:681:GLU:HA	1.91	0.71
1:P:46:ARG:HH11	1:P:46:ARG:HG3	1.56	0.71
1:C:114:VAL:HG13	1:C:115:PRO:HD2	1.73	0.70
1:C:571:VAL:HG13	1:C:607:VAL:HG23	1.73	0.70
1:E:377:LEU:HD23	1:E:377:LEU:N	2.05	0.70
1:G:571:VAL:HG13	1:G:607:VAL:HG23	1.73	0.70
1:J:11:LEU:HD23	1:J:11:LEU:N	2.06	0.70
1:J:681:GLU:OE2	1:J:681:GLU:HA	1.91	0.70
1:N:11:LEU:HD23	1:N:11:LEU:N	2.05	0.70
1:E:114:VAL:HG13	1:E:115:PRO:HD2	1.72	0.70
1:E:802:ASP:OD1	1:E:803:PRO:HD2	1.89	0.70
1:J:114:VAL:HG13	1:J:115:PRO:HD2	1.72	0.70
1:K:651:LEU:HD12	1:K:652:LEU:N	2.05	0.70
1:M:46:ARG:HG3	1:M:46:ARG:HH11	1.56	0.70
1:A:651:LEU:HD12	1:A:652:LEU:N	2.05	0.70
1:C:11:LEU:N	1:C:11:LEU:HD23	2.05	0.70
1:D:377:LEU:N	1:D:377:LEU:HD23	2.06	0.70
1:E:46:ARG:HG3	1:E:46:ARG:HH11	1.56	0.70
1:E:745:MET:HA	1:E:745:MET:HE2	1.73	0.70
1:L:714:ILE:N	1:L:714:ILE:HD13	2.05	0.70
1:M:714:ILE:HD13	1:M:714:ILE:N	2.05	0.70
1:P:571:VAL:HG13	1:P:607:VAL:HG23	1.73	0.70
1:F:114:VAL:HG13	1:F:115:PRO:HD2	1.72	0.70
1:H:377:LEU:HD23	1:H:377:LEU:N	2.06	0.70
1:I:128:ASN:HD21	1:I:180:GLY:HA2	1.56	0.70
1:I:568:TRP:HE1	1:I:604:ASN:HD22	1.38	0.70
1:J:568:TRP:HE1	1:J:604:ASN:HD22	1.37	0.70
1:K:128:ASN:HD21	1:K:180:GLY:HA2	1.56	0.70
1:K:436:MET:HE3	1:K:467:ASN:HD22	1.56	0.70
1:K:568:TRP:HE1	1:K:604:ASN:HD22	1.37	0.70
1:O:46:ARG:HG3	1:O:46:ARG:HH11	1.56	0.70
1:B:745:MET:HE2	1:B:745:MET:HA	1.74	0.70
1:I:30:HIS:HB2	1:I:31:PRO:HD2	1.71	0.70
1:L:568:TRP:HE1	1:L:604:ASN:HD22	1.37	0.70
1:N:114:VAL:HG13	1:N:115:PRO:HD2	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:282:ARG:HD2	1:O:418:HIS:O	1.91	0.70
1:A:114:VAL:HG13	1:A:191:TRP:HB2	1.74	0.70
1:D:651:LEU:HD12	1:D:652:LEU:N	2.05	0.70
1:F:114:VAL:HG13	1:F:191:TRP:HB2	1.74	0.70
1:K:571:VAL:HG13	1:K:607:VAL:HG23	1.73	0.70
1:A:360:HIS:HE1	1:A:362:LEU:HB2	1.51	0.70
1:G:714:ILE:N	1:G:714:ILE:HD13	2.05	0.70
1:H:427:THR:HA	1:H:436:MET:HE2	1.74	0.70
1:I:681:GLU:OE2	1:I:681:GLU:HA	1.91	0.70
1:K:114:VAL:HG13	1:K:191:TRP:HB2	1.74	0.70
1:L:651:LEU:HD12	1:L:652:LEU:N	2.05	0.70
1:N:114:VAL:HG13	1:N:191:TRP:HB2	1.74	0.70
1:O:681:GLU:HA	1:O:681:GLU:OE2	1.91	0.70
1:P:114:VAL:HG13	1:P:115:PRO:HD2	1.73	0.70
1:P:11:LEU:N	1:P:11:LEU:HD23	2.05	0.70
1:P:714:ILE:N	1:P:714:ILE:HD13	2.05	0.70
1:G:681:GLU:HA	1:G:681:GLU:OE2	1.91	0.70
1:I:571:VAL:HG13	1:I:607:VAL:HG23	1.73	0.70
1:J:46:ARG:HH11	1:J:46:ARG:HG3	1.56	0.70
1:K:681:GLU:OE2	1:K:681:GLU:HA	1.91	0.70
1:M:377:LEU:N	1:M:377:LEU:HD23	2.06	0.70
1:N:714:ILE:HD13	1:N:714:ILE:N	2.05	0.70
1:O:714:ILE:N	1:O:714:ILE:HD13	2.05	0.70
1:P:595:THR:HG23	1:P:596:PRO:HA	1.74	0.70
1:B:11:LEU:HD23	1:B:11:LEU:N	2.05	0.70
1:D:114:VAL:HG13	1:D:191:TRP:HB2	1.74	0.70
1:H:571:VAL:HG13	1:H:607:VAL:HG23	1.73	0.70
1:J:434:PRO:HB3	1:K:434:PRO:HB3	1.74	0.70
1:K:377:LEU:HD23	1:K:377:LEU:N	2.06	0.70
1:O:128:ASN:HD21	1:O:180:GLY:HA2	1.56	0.70
1:A:46:ARG:HG3	1:A:46:ARG:HH11	1.56	0.70
1:B:577:LYS:O	1:B:584:PRO:HA	1.92	0.70
1:C:714:ILE:N	1:C:714:ILE:HD13	2.05	0.70
1:D:114:VAL:HG13	1:D:115:PRO:HD2	1.72	0.70
1:F:714:ILE:N	1:F:714:ILE:HD13	2.05	0.70
1:H:114:VAL:HG13	1:H:191:TRP:HB2	1.74	0.70
1:H:114:VAL:HG13	1:H:115:PRO:HD2	1.72	0.70
1:H:595:THR:HG23	1:H:596:PRO:HA	1.74	0.70
1:I:577:LYS:O	1:I:584:PRO:HA	1.92	0.70
1:K:369:GLU:O	1:K:373:VAL:HG23	1.92	0.70
1:M:369:GLU:O	1:M:373:VAL:HG23	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:420:MET:O	1:O:282:ARG:HD3	1.92	0.70
1:N:651:LEU:HD12	1:N:652:LEU:N	2.05	0.70
1:P:114:VAL:HG13	1:P:191:TRP:HB2	1.74	0.70
1:P:377:LEU:HD23	1:P:377:LEU:N	2.05	0.70
1:B:287:ASP:OD2	1:C:425:ARG:NH2	2.24	0.69
1:F:651:LEU:HD12	1:F:652:LEU:N	2.05	0.69
1:G:128:ASN:HD21	1:G:180:GLY:HA2	1.56	0.69
1:G:114:VAL:HG13	1:G:191:TRP:HB2	1.74	0.69
1:G:292:ARG:C	1:G:293:LEU:HD23	2.13	0.69
1:H:577:LYS:O	1:H:584:PRO:HA	1.92	0.69
1:L:11:LEU:HD23	1:L:11:LEU:N	2.06	0.69
1:A:577:LYS:O	1:A:584:PRO:HA	1.92	0.69
1:E:114:VAL:HG13	1:E:191:TRP:HB2	1.74	0.69
1:G:395:HIS:CG	1:G:396:PRO:HD2	2.28	0.69
1:I:292:ARG:C	1:I:293:LEU:HD23	2.13	0.69
1:J:377:LEU:N	1:J:377:LEU:HD23	2.06	0.69
1:L:114:VAL:HG13	1:L:191:TRP:HB2	1.74	0.69
1:N:287:ASP:OD2	1:O:425:ARG:NH2	2.25	0.69
1:O:114:VAL:HG13	1:O:191:TRP:HB2	1.74	0.69
1:F:11:LEU:HD23	1:F:11:LEU:N	2.05	0.69
1:F:292:ARG:C	1:F:293:LEU:HD23	2.13	0.69
1:F:577:LYS:O	1:F:584:PRO:HA	1.92	0.69
1:F:595:THR:HG23	1:F:596:PRO:HA	1.74	0.69
1:J:369:GLU:O	1:J:373:VAL:HG23	1.92	0.69
1:M:395:HIS:CG	1:M:396:PRO:HD2	2.28	0.69
1:M:436:MET:HE3	1:M:467:ASN:HD22	1.55	0.69
1:N:595:THR:HG23	1:N:596:PRO:HA	1.74	0.69
1:O:292:ARG:C	1:O:293:LEU:HD23	2.13	0.69
1:O:57:GLU:HG2	1:O:83:THR:HG23	1.75	0.69
1:P:577:LYS:O	1:P:584:PRO:HA	1.92	0.69
1:A:395:HIS:CG	1:A:396:PRO:HD2	2.28	0.69
1:D:360:HIS:CG	1:D:361:PRO:HD2	2.28	0.69
1:D:395:HIS:CG	1:D:396:PRO:HD2	2.28	0.69
1:E:436:MET:HE3	1:E:467:ASN:HD22	1.56	0.69
1:H:46:ARG:HG3	1:H:46:ARG:HH11	1.56	0.69
1:J:57:GLU:HG2	1:J:83:THR:HG23	1.75	0.69
1:K:278:ILE:HD12	1:K:278:ILE:N	2.07	0.69
1:M:595:THR:HG23	1:M:596:PRO:HA	1.74	0.69
1:A:681:GLU:HA	1:A:681:GLU:OE2	1.91	0.69
1:B:292:ARG:C	1:B:293:LEU:HD23	2.13	0.69
1:B:436:MET:HE1	1:B:467:ASN:HD22	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:595:THR:HG23	1:C:596:PRO:HA	1.74	0.69
1:F:395:HIS:CG	1:F:396:PRO:HD2	2.28	0.69
1:F:46:ARG:HH11	1:F:46:ARG:HG3	1.56	0.69
1:H:436:MET:HE1	1:H:467:ASN:HD22	1.58	0.69
1:I:595:THR:HG23	1:I:596:PRO:HA	1.74	0.69
1:I:714:ILE:N	1:I:714:ILE:HD13	2.05	0.69
1:J:360:HIS:CG	1:J:361:PRO:HD2	2.28	0.69
1:K:395:HIS:CG	1:K:396:PRO:HD2	2.28	0.69
1:L:360:HIS:CG	1:L:361:PRO:HD2	2.28	0.69
1:L:681:GLU:HA	1:L:681:GLU:OE2	1.91	0.69
1:P:292:ARG:C	1:P:293:LEU:HD23	2.13	0.69
1:B:595:THR:HG23	1:B:596:PRO:HA	1.74	0.69
1:C:114:VAL:HG13	1:C:191:TRP:HB2	1.74	0.69
1:C:577:LYS:O	1:C:584:PRO:HA	1.92	0.69
1:D:571:VAL:HG13	1:D:607:VAL:HG23	1.73	0.69
1:E:360:HIS:CG	1:E:361:PRO:HD2	2.28	0.69
1:E:577:LYS:O	1:E:584:PRO:HA	1.92	0.69
1:E:595:THR:HG23	1:E:596:PRO:HA	1.74	0.69
1:F:745:MET:HA	1:F:745:MET:HE2	1.74	0.69
1:I:11:LEU:N	1:I:11:LEU:HD23	2.05	0.69
1:L:595:THR:HG23	1:L:596:PRO:HA	1.74	0.69
1:M:292:ARG:C	1:M:293:LEU:HD23	2.13	0.69
1:N:46:ARG:HH11	1:N:46:ARG:HG3	1.56	0.69
1:O:577:LYS:O	1:O:584:PRO:HA	1.92	0.69
1:A:292:ARG:C	1:A:293:LEU:HD23	2.13	0.69
1:B:114:VAL:HG13	1:B:191:TRP:HB2	1.74	0.69
1:B:369:GLU:O	1:B:373:VAL:HG23	1.92	0.69
1:B:395:HIS:CG	1:B:396:PRO:HD2	2.28	0.69
1:B:571:VAL:HG13	1:B:607:VAL:HG23	1.73	0.69
1:E:369:GLU:O	1:E:373:VAL:HG23	1.92	0.69
1:H:681:GLU:OE2	1:H:681:GLU:HA	1.91	0.69
1:J:292:ARG:C	1:J:293:LEU:HD23	2.13	0.69
1:J:571:VAL:HG13	1:J:607:VAL:HG23	1.73	0.69
1:K:595:THR:HG23	1:K:596:PRO:HA	1.74	0.69
1:M:114:VAL:HG13	1:M:191:TRP:HB2	1.74	0.69
1:M:360:HIS:CG	1:M:361:PRO:HD2	2.28	0.69
1:M:577:LYS:O	1:M:584:PRO:HA	1.92	0.69
1:M:57:GLU:HG2	1:M:83:THR:HG23	1.75	0.69
1:N:292:ARG:C	1:N:293:LEU:HD23	2.13	0.69
1:N:577:LYS:O	1:N:584:PRO:HA	1.92	0.69
1:N:681:GLU:HA	1:N:681:GLU:OE2	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:278:ILE:HD12	1:A:278:ILE:N	2.07	0.69
1:A:57:GLU:HG2	1:A:83:THR:HG23	1.75	0.69
1:C:278:ILE:N	1:C:278:ILE:HD12	2.07	0.69
1:C:681:GLU:OE2	1:C:681:GLU:HA	1.91	0.69
1:E:194:GLY:O	1:E:198:GLU:HG3	1.93	0.69
1:G:577:LYS:O	1:G:584:PRO:HA	1.92	0.69
1:G:654:TRP:CE2	1:G:666:GLY:HA3	2.28	0.69
1:H:369:GLU:O	1:H:373:VAL:HG23	1.92	0.69
1:H:57:GLU:HG2	1:H:83:THR:HG23	1.75	0.69
1:I:278:ILE:N	1:I:278:ILE:HD12	2.07	0.69
1:L:395:HIS:CG	1:L:396:PRO:HD2	2.27	0.69
1:L:46:ARG:HG3	1:L:46:ARG:HH11	1.56	0.69
1:O:369:GLU:O	1:O:373:VAL:HG23	1.92	0.69
1:P:360:HIS:CG	1:P:361:PRO:HD2	2.28	0.69
1:P:681:GLU:OE2	1:P:681:GLU:HA	1.91	0.69
1:P:730:LEU:HB3	1:P:731:PRO:HD2	1.75	0.69
1:A:595:THR:HG23	1:A:596:PRO:HA	1.74	0.69
1:A:571:VAL:HG13	1:A:607:VAL:HG23	1.73	0.69
1:C:395:HIS:CG	1:C:396:PRO:HD2	2.28	0.69
1:D:681:GLU:HA	1:D:681:GLU:OE2	1.91	0.69
1:G:194:GLY:O	1:G:198:GLU:HG3	1.93	0.69
1:G:730:LEU:HB3	1:G:731:PRO:HD2	1.75	0.69
1:H:730:LEU:HB3	1:H:731:PRO:HD2	1.75	0.69
1:J:194:GLY:O	1:J:198:GLU:HG3	1.93	0.69
1:L:369:GLU:O	1:L:373:VAL:HG23	1.92	0.69
1:N:369:GLU:O	1:N:373:VAL:HG23	1.92	0.69
1:O:360:HIS:HE1	1:O:362:LEU:HB2	1.51	0.69
1:C:292:ARG:C	1:C:293:LEU:HD23	2.13	0.69
1:D:194:GLY:O	1:D:198:GLU:HG3	1.93	0.69
1:D:436:MET:HE3	1:D:467:ASN:HD22	1.56	0.69
1:J:395:HIS:CG	1:J:396:PRO:HD2	2.28	0.69
1:K:654:TRP:CE2	1:K:666:GLY:HA3	2.28	0.69
1:L:292:ARG:C	1:L:293:LEU:HD23	2.13	0.69
1:L:577:LYS:O	1:L:584:PRO:HA	1.92	0.69
1:M:1021:CME:HB3	1:M:1021:CME:CZ	2.08	0.69
1:M:194:GLY:O	1:M:198:GLU:HG3	1.93	0.69
1:O:194:GLY:O	1:O:198:GLU:HG3	1.93	0.69
1:P:395:HIS:CG	1:P:396:PRO:HD2	2.28	0.69
1:B:681:GLU:HA	1:B:681:GLU:OE2	1.91	0.69
1:E:395:HIS:CG	1:E:396:PRO:HD2	2.28	0.69
1:G:278:ILE:N	1:G:278:ILE:HD12	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:360:HIS:HE1	1:G:362:LEU:HB2	1.51	0.69
1:G:773:LYS:HB2	1:G:773:LYS:HZ3	1.54	0.69
1:H:360:HIS:CG	1:H:361:PRO:HD2	2.28	0.69
1:H:395:HIS:CG	1:H:396:PRO:HD2	2.28	0.69
1:I:360:HIS:CG	1:I:361:PRO:HD2	2.28	0.69
1:I:57:GLU:HG2	1:I:83:THR:HG23	1.75	0.69
1:K:347:LYS:HB3	1:K:348:PRO:HD2	1.75	0.69
1:M:336:ARG:NH1	1:M:336:ARG:HG2	2.08	0.69
1:O:730:LEU:HB3	1:O:731:PRO:HD2	1.75	0.69
1:A:654:TRP:CE2	1:A:666:GLY:HA3	2.28	0.68
1:A:682:LEU:CD2	1:A:683:PRO:HD2	2.23	0.68
1:C:730:LEU:HB3	1:C:731:PRO:HD2	1.75	0.68
1:E:292:ARG:C	1:E:293:LEU:HD23	2.13	0.68
1:E:681:GLU:HA	1:E:681:GLU:OE2	1.91	0.68
1:F:681:GLU:OE2	1:F:681:GLU:HA	1.91	0.68
1:G:360:HIS:CG	1:G:361:PRO:HD2	2.28	0.68
1:G:682:LEU:CD2	1:G:683:PRO:HD2	2.23	0.68
1:H:292:ARG:C	1:H:293:LEU:HD23	2.13	0.68
1:H:682:LEU:CD2	1:H:683:PRO:HD2	2.24	0.68
1:I:377:LEU:HD23	1:I:377:LEU:N	2.06	0.68
1:I:427:THR:HA	1:I:436:MET:HE2	1.75	0.68
1:I:43:ARG:NH1	1:I:43:ARG:HG2	1.96	0.68
1:N:194:GLY:O	1:N:198:GLU:HG3	1.93	0.68
1:N:287:ASP:CG	1:O:425:ARG:HH22	1.96	0.68
1:O:395:HIS:CG	1:O:396:PRO:HD2	2.28	0.68
1:O:682:LEU:CD2	1:O:683:PRO:HD2	2.23	0.68
1:A:336:ARG:NH1	1:A:336:ARG:HG2	2.08	0.68
1:A:360:HIS:CG	1:A:361:PRO:HD2	2.28	0.68
1:B:654:TRP:CE2	1:B:666:GLY:HA3	2.28	0.68
1:C:46:ARG:HG3	1:C:46:ARG:HH11	1.56	0.68
1:D:369:GLU:O	1:D:373:VAL:HG23	1.92	0.68
1:D:730:LEU:HB3	1:D:731:PRO:HD2	1.75	0.68
1:E:654:TRP:CE2	1:E:666:GLY:HA3	2.28	0.68
1:J:114:VAL:HG13	1:J:191:TRP:HB2	1.74	0.68
1:J:595:THR:HG23	1:J:596:PRO:HA	1.74	0.68
1:K:748:CME:HE3	1:K:769:TRP:CZ3	2.28	0.68
1:M:278:ILE:HD12	1:M:278:ILE:N	2.07	0.68
1:N:395:HIS:CG	1:N:396:PRO:HD2	2.28	0.68
1:O:360:HIS:CG	1:O:361:PRO:HD2	2.28	0.68
1:A:369:GLU:O	1:A:373:VAL:HG23	1.92	0.68
1:B:822:LEU:HD12	1:B:823:LEU:N	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:369:GLU:O	1:C:373:VAL:HG23	1.92	0.68
1:E:278:ILE:HD12	1:E:278:ILE:N	2.07	0.68
1:F:190:ARG:HD3	1:F:191:TRP:CZ2	2.29	0.68
1:F:336:ARG:HG2	1:F:336:ARG:NH1	2.08	0.68
1:G:369:GLU:O	1:G:373:VAL:HG23	1.92	0.68
1:H:1021:CME:HB3	1:H:1021:CME:CZ	2.08	0.68
1:I:369:GLU:O	1:I:373:VAL:HG23	1.92	0.68
1:J:278:ILE:HD12	1:J:278:ILE:N	2.07	0.68
1:L:377:LEU:HD23	1:L:377:LEU:N	2.06	0.68
1:N:336:ARG:NH1	1:N:336:ARG:HG2	2.08	0.68
1:O:278:ILE:N	1:O:278:ILE:HD12	2.07	0.68
1:B:278:ILE:N	1:B:278:ILE:HD12	2.07	0.68
1:D:278:ILE:N	1:D:278:ILE:HD12	2.07	0.68
1:D:577:LYS:O	1:D:584:PRO:HA	1.92	0.68
1:E:347:LYS:HB3	1:E:348:PRO:HD2	1.75	0.68
1:E:730:LEU:HB3	1:E:731:PRO:HD2	1.75	0.68
1:E:748:CME:HE3	1:E:769:TRP:CZ3	2.28	0.68
1:F:360:HIS:CG	1:F:361:PRO:HD2	2.28	0.68
1:I:654:TRP:CE2	1:I:666:GLY:HA3	2.28	0.68
1:J:190:ARG:HD3	1:J:191:TRP:CZ2	2.29	0.68
1:K:194:GLY:O	1:K:198:GLU:HG3	1.93	0.68
1:K:292:ARG:C	1:K:293:LEU:HD23	2.13	0.68
1:L:278:ILE:HD12	1:L:278:ILE:N	2.07	0.68
1:N:748:CME:HE3	1:N:769:TRP:CZ3	2.28	0.68
1:O:347:LYS:HB3	1:O:348:PRO:HD2	1.75	0.68
1:P:369:GLU:O	1:P:373:VAL:HG23	1.92	0.68
1:P:748:CME:HE3	1:P:769:TRP:CZ3	2.28	0.68
1:B:360:HIS:CG	1:B:361:PRO:HD2	2.28	0.68
1:C:748:CME:HE3	1:C:769:TRP:CZ3	2.29	0.68
1:D:292:ARG:C	1:D:293:LEU:HD23	2.13	0.68
1:D:46:ARG:HG3	1:D:46:ARG:HH11	1.56	0.68
1:D:748:CME:HE3	1:D:769:TRP:CZ3	2.28	0.68
1:G:347:LYS:HB3	1:G:348:PRO:HD2	1.75	0.68
1:I:114:VAL:HG13	1:I:191:TRP:HB2	1.74	0.68
1:I:395:HIS:CG	1:I:396:PRO:HD2	2.28	0.68
1:K:730:LEU:HB3	1:K:731:PRO:HD2	1.75	0.68
1:L:347:LYS:HB3	1:L:348:PRO:HD2	1.75	0.68
1:M:748:CME:HE3	1:M:769:TRP:CZ3	2.28	0.68
1:N:360:HIS:CG	1:N:361:PRO:HD2	2.28	0.68
1:F:336:ARG:HG2	1:F:336:ARG:HH11	1.59	0.68
1:F:748:CME:HE3	1:F:769:TRP:CZ3	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:287:ASP:OD2	1:G:425:ARG:NH2	2.27	0.68
1:K:57:GLU:HG2	1:K:83:THR:HG23	1.75	0.68
1:L:190:ARG:HD3	1:L:191:TRP:CZ2	2.29	0.68
1:L:730:LEU:HB3	1:L:731:PRO:HD2	1.75	0.68
1:M:730:LEU:HB3	1:M:731:PRO:HD2	1.75	0.68
1:N:945:ASN:OD1	1:N:950:GLN:NE2	2.25	0.68
1:O:822:LEU:HD12	1:O:823:LEU:N	2.09	0.68
1:A:1021:CME:HB3	1:A:1021:CME:CZ	2.08	0.68
1:B:336:ARG:NH1	1:B:336:ARG:HG2	2.08	0.68
1:D:190:ARG:HD3	1:D:191:TRP:CZ2	2.29	0.68
1:E:57:GLU:HG2	1:E:83:THR:HG23	1.75	0.68
1:F:194:GLY:O	1:F:198:GLU:HG3	1.93	0.68
1:F:278:ILE:HD12	1:F:278:ILE:N	2.07	0.68
1:F:57:GLU:HG2	1:F:83:THR:HG23	1.75	0.68
1:F:730:LEU:HB3	1:F:731:PRO:HD2	1.75	0.68
1:K:336:ARG:HG2	1:K:336:ARG:NH1	2.08	0.68
1:K:360:HIS:CG	1:K:361:PRO:HD2	2.28	0.68
1:K:577:LYS:O	1:K:584:PRO:HA	1.92	0.68
1:M:347:LYS:HB3	1:M:348:PRO:HD2	1.75	0.68
1:M:682:LEU:CD2	1:M:683:PRO:HD2	2.24	0.68
1:N:278:ILE:N	1:N:278:ILE:HD12	2.07	0.68
1:N:57:GLU:HG2	1:N:83:THR:HG23	1.75	0.68
1:N:654:TRP:CE2	1:N:666:GLY:HA3	2.28	0.68
1:N:730:LEU:HB3	1:N:731:PRO:HD2	1.75	0.68
1:N:745:MET:HA	1:N:745:MET:HE2	1.75	0.68
1:O:595:THR:HG23	1:O:596:PRO:HA	1.74	0.68
1:C:190:ARG:HD3	1:C:191:TRP:CZ2	2.29	0.68
1:C:336:ARG:NH1	1:C:336:ARG:HG2	2.08	0.68
1:F:945:ASN:OD1	1:F:950:GLN:NE2	2.25	0.68
1:G:436:MET:HE1	1:G:467:ASN:HD22	1.59	0.68
1:G:595:THR:HG23	1:G:596:PRO:HA	1.74	0.68
1:H:347:LYS:HB3	1:H:348:PRO:HD2	1.75	0.68
1:H:748:CME:HE3	1:H:769:TRP:CZ3	2.28	0.68
1:L:194:GLY:O	1:L:198:GLU:HG3	1.93	0.68
1:M:190:ARG:HD3	1:M:191:TRP:CZ2	2.29	0.68
1:O:654:TRP:CE2	1:O:666:GLY:HA3	2.28	0.68
1:P:194:GLY:O	1:P:198:GLU:HG3	1.93	0.68
1:P:347:LYS:HB3	1:P:348:PRO:HD2	1.75	0.68
1:P:654:TRP:CE2	1:P:666:GLY:HA3	2.28	0.68
1:B:128:ASN:HD21	1:B:180:GLY:HA2	1.56	0.68
1:B:57:GLU:HG2	1:B:83:THR:HG23	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:360:HIS:CG	1:C:361:PRO:HD2	2.28	0.68
1:C:654:TRP:CE2	1:C:666:GLY:HA3	2.28	0.68
1:C:682:LEU:CD2	1:C:683:PRO:HD2	2.23	0.68
1:D:347:LYS:HB3	1:D:348:PRO:HD2	1.75	0.68
1:D:945:ASN:OD1	1:D:950:GLN:NE2	2.25	0.68
1:G:190:ARG:HD3	1:G:191:TRP:CZ2	2.29	0.68
1:G:822:LEU:HD12	1:G:823:LEU:N	2.09	0.68
1:H:654:TRP:CE2	1:H:666:GLY:HA3	2.28	0.68
1:I:336:ARG:HG2	1:I:336:ARG:NH1	2.08	0.68
1:J:577:LYS:O	1:J:584:PRO:HA	1.92	0.68
1:J:682:LEU:CD2	1:J:683:PRO:HD2	2.23	0.68
1:K:178:ARG:NH2	1:K:181:GLU:O	2.27	0.68
1:L:336:ARG:HG2	1:L:336:ARG:NH1	2.08	0.68
1:L:654:TRP:CE2	1:L:666:GLY:HA3	2.28	0.68
1:N:682:LEU:CD2	1:N:683:PRO:HD2	2.24	0.68
1:O:190:ARG:HD3	1:O:191:TRP:CZ2	2.29	0.68
1:O:748:CME:HE3	1:O:769:TRP:CZ3	2.28	0.68
1:P:178:ARG:NH2	1:P:181:GLU:O	2.27	0.68
1:B:682:LEU:CD2	1:B:683:PRO:HD2	2.24	0.68
1:C:117:GLU:N	1:C:117:GLU:OE1	2.27	0.68
1:C:654:TRP:NE1	1:C:666:GLY:HA3	2.09	0.68
1:D:178:ARG:NH2	1:D:181:GLU:O	2.27	0.68
1:D:654:TRP:NE1	1:D:666:GLY:HA3	2.09	0.68
1:H:822:LEU:HD12	1:H:823:LEU:N	2.09	0.68
1:I:682:LEU:CD2	1:I:683:PRO:HD2	2.23	0.68
1:K:46:ARG:HH11	1:K:46:ARG:HG3	1.56	0.68
1:K:654:TRP:NE1	1:K:666:GLY:HA3	2.09	0.68
1:K:822:LEU:HD12	1:K:823:LEU:N	2.09	0.68
1:I:287:ASP:OD2	1:L:425:ARG:NH2	2.26	0.68
1:L:57:GLU:HG2	1:L:83:THR:HG23	1.75	0.68
1:N:43:ARG:NH1	1:N:43:ARG:HG2	1.95	0.68
1:A:190:ARG:HD3	1:A:191:TRP:CZ2	2.29	0.67
1:A:194:GLY:O	1:A:198:GLU:HG3	1.93	0.67
1:B:194:GLY:O	1:B:198:GLU:HG3	1.93	0.67
1:C:336:ARG:HH11	1:C:336:ARG:HG2	1.59	0.67
1:D:336:ARG:HG2	1:D:336:ARG:HH11	1.59	0.67
1:E:682:LEU:CD2	1:E:683:PRO:HD2	2.24	0.67
1:F:682:LEU:CD2	1:F:683:PRO:HD2	2.24	0.67
1:F:822:LEU:HD12	1:F:823:LEU:N	2.09	0.67
1:G:748:CME:HE3	1:G:769:TRP:CZ3	2.28	0.67
1:H:194:GLY:O	1:H:198:GLU:HG3	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:748:CME:HE3	1:I:769:TRP:CZ3	2.28	0.67
1:J:654:TRP:NE1	1:J:666:GLY:HA3	2.09	0.67
1:J:822:LEU:HD12	1:J:823:LEU:N	2.09	0.67
1:N:128:ASN:HD21	1:N:180:GLY:HA2	1.56	0.67
1:A:730:LEU:HB3	1:A:731:PRO:HD2	1.75	0.67
1:A:822:LEU:HD12	1:A:823:LEU:N	2.09	0.67
1:C:57:GLU:HG2	1:C:83:THR:HG23	1.75	0.67
1:D:654:TRP:CE2	1:D:666:GLY:HA3	2.28	0.67
1:F:369:GLU:O	1:F:373:VAL:HG23	1.92	0.67
1:G:293:LEU:HD23	1:G:293:LEU:N	2.09	0.67
1:G:57:GLU:HG2	1:G:83:THR:HG23	1.75	0.67
1:K:682:LEU:CD2	1:K:683:PRO:HD2	2.23	0.67
1:L:178:ARG:NH2	1:L:181:GLU:O	2.27	0.67
1:L:336:ARG:HG2	1:L:336:ARG:HH11	1.59	0.67
1:L:748:CME:HE3	1:L:769:TRP:CZ3	2.28	0.67
1:N:822:LEU:HD12	1:N:823:LEU:N	2.09	0.67
1:A:178:ARG:NH2	1:A:181:GLU:O	2.27	0.67
1:A:945:ASN:OD1	1:A:950:GLN:NE2	2.25	0.67
1:B:730:LEU:HB3	1:B:731:PRO:HD2	1.75	0.67
1:B:945:ASN:OD1	1:B:950:GLN:NE2	2.25	0.67
1:C:822:LEU:HD12	1:C:823:LEU:N	2.09	0.67
1:F:653[B]:HIS:CD2	1:F:667:GLU:HG3	2.30	0.67
1:G:336:ARG:NH1	1:G:336:ARG:HG2	2.08	0.67
1:H:278:ILE:HD12	1:H:278:ILE:N	2.07	0.67
1:I:336:ARG:HG2	1:I:336:ARG:HH11	1.59	0.67
1:J:653[B]:HIS:CD2	1:J:667:GLU:HG3	2.30	0.67
1:J:748:CME:HE3	1:J:769:TRP:CZ3	2.28	0.67
1:O:293:LEU:HD23	1:O:293:LEU:N	2.10	0.67
1:P:278:ILE:N	1:P:278:ILE:HD12	2.07	0.67
1:P:654:TRP:NE1	1:P:666:GLY:HA3	2.10	0.67
1:A:653[B]:HIS:CD2	1:A:667:GLU:HG3	2.30	0.67
1:A:748:CME:HE3	1:A:769:TRP:CZ3	2.28	0.67
1:B:178:ARG:NH2	1:B:181:GLU:O	2.27	0.67
1:B:190:ARG:HD3	1:B:191:TRP:CZ2	2.29	0.67
1:C:128:ASN:HD21	1:C:180:GLY:HA2	1.56	0.67
1:C:178:ARG:NH2	1:C:181:GLU:O	2.27	0.67
1:D:293:LEU:HD23	1:D:293:LEU:N	2.10	0.67
1:D:917:ARG:NH2	1:D:943:GLU:OE1	2.28	0.67
1:E:178:ARG:NH2	1:E:181:GLU:O	2.27	0.67
1:F:117:GLU:OE1	1:F:117:GLU:N	2.27	0.67
1:F:128:ASN:HD21	1:F:180:GLY:HA2	1.56	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:654:TRP:NE1	1:H:666:GLY:HA3	2.09	0.67
1:I:194:GLY:O	1:I:198:GLU:HG3	1.93	0.67
1:L:682:LEU:CD2	1:L:683:PRO:HD2	2.23	0.67
1:L:902:PRO:O	1:L:938:ARG:NH1	2.28	0.67
1:M:653[B]:HIS:CD2	1:M:667:GLU:HG3	2.30	0.67
1:N:377:LEU:O	1:N:381:GLN:HG3	1.95	0.67
1:P:682:LEU:CD2	1:P:683:PRO:HD2	2.23	0.67
1:D:57:GLU:HG2	1:D:83:THR:HG23	1.75	0.67
1:D:595:THR:HG23	1:D:596:PRO:HA	1.74	0.67
1:E:293:LEU:HD23	1:E:293:LEU:N	2.10	0.67
1:E:336:ARG:HG2	1:E:336:ARG:HH11	1.59	0.67
1:E:654:TRP:NE1	1:E:666:GLY:HA3	2.09	0.67
1:E:822:LEU:HD12	1:E:823:LEU:N	2.09	0.67
1:F:347:LYS:HB3	1:F:348:PRO:HD2	1.75	0.67
1:F:917:ARG:NH2	1:F:943:GLU:OE1	2.28	0.67
1:H:178:ARG:NH2	1:H:181:GLU:O	2.27	0.67
1:H:377:LEU:O	1:H:381:GLN:HG3	1.95	0.67
1:H:917:ARG:NH2	1:H:943:GLU:OE1	2.28	0.67
1:I:190:ARG:HD3	1:I:191:TRP:CZ2	2.29	0.67
1:J:347:LYS:HB3	1:J:348:PRO:HD2	1.75	0.67
1:K:377:LEU:O	1:K:381:GLN:HG3	1.95	0.67
1:L:4:THR:HA	1:L:9:VAL:HG11	1.77	0.67
1:L:822:LEU:HD12	1:L:823:LEU:N	2.09	0.67
1:N:917:ARG:NH2	1:N:943:GLU:OE1	2.28	0.67
1:O:336:ARG:HG2	1:O:336:ARG:NH1	2.08	0.67
1:P:117:GLU:OE1	1:P:117:GLU:N	2.27	0.67
1:P:57:GLU:HG2	1:P:83:THR:HG23	1.74	0.67
1:B:653[B]:HIS:CD2	1:B:667:GLU:HG3	2.30	0.67
1:B:748:CME:HE3	1:B:769:TRP:CZ3	2.28	0.67
1:C:194:GLY:O	1:C:198:GLU:HG3	1.93	0.67
1:C:4:THR:HA	1:C:9:VAL:HG11	1.77	0.67
1:E:377:LEU:O	1:E:381:GLN:HG3	1.95	0.67
1:F:178:ARG:NH2	1:F:181:GLU:O	2.27	0.67
1:I:178:ARG:NH2	1:I:181:GLU:O	2.27	0.67
1:I:347:LYS:HB3	1:I:348:PRO:HD2	1.75	0.67
1:I:822:LEU:HD12	1:I:823:LEU:N	2.09	0.67
1:N:347:LYS:HB3	1:N:348:PRO:HD2	1.75	0.67
1:N:436:MET:HE3	1:N:467:ASN:HD22	1.59	0.67
1:O:653[B]:HIS:CD2	1:O:667:GLU:HG3	2.30	0.67
1:O:902:PRO:O	1:O:938:ARG:NH1	2.28	0.67
1:P:293:LEU:HD23	1:P:293:LEU:N	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:336:ARG:NH1	1:P:336:ARG:HG2	2.08	0.67
1:P:822:LEU:HD12	1:P:823:LEU:N	2.09	0.67
1:P:917:ARG:NH2	1:P:943:GLU:OE1	2.28	0.67
1:A:336:ARG:HH11	1:A:336:ARG:HG2	1.59	0.67
1:A:917:ARG:NH2	1:A:943:GLU:OE1	2.28	0.67
1:D:7:LEU:N	1:D:71:GLU:OE2	2.28	0.67
1:D:822:LEU:HD12	1:D:823:LEU:N	2.09	0.67
1:H:293:LEU:N	1:H:293:LEU:HD23	2.09	0.67
1:I:653[B]:HIS:CD2	1:I:667:GLU:HG3	2.30	0.67
1:J:427:THR:HA	1:J:436:MET:HE2	1.77	0.67
1:J:654:TRP:CE2	1:J:666:GLY:HA3	2.28	0.67
1:J:917:ARG:NH2	1:J:943:GLU:OE1	2.28	0.67
1:K:4:THR:HA	1:K:9:VAL:HG11	1.77	0.67
1:L:3:ILE:HG13	1:L:4:THR:N	2.07	0.67
1:L:654:TRP:NE1	1:L:666:GLY:HA3	2.09	0.67
1:L:653[B]:HIS:CD2	1:L:667:GLU:HG3	2.30	0.67
1:M:336:ARG:HG2	1:M:336:ARG:HH11	1.59	0.67
1:M:822:LEU:HD12	1:M:823:LEU:N	2.09	0.67
1:N:190:ARG:HD3	1:N:191:TRP:CZ2	2.29	0.67
1:N:753:ASN:N	1:N:753:ASN:OD1	2.28	0.67
1:B:336:ARG:HG2	1:B:336:ARG:HH11	1.59	0.67
1:B:654:TRP:NE1	1:B:666:GLY:HA3	2.09	0.67
1:D:377:LEU:O	1:D:381:GLN:HG3	1.95	0.67
1:F:43:ARG:NH1	1:F:43:ARG:HG2	1.95	0.67
1:F:4:THR:HA	1:F:9:VAL:HG11	1.77	0.67
1:G:653[B]:HIS:CD2	1:G:667:GLU:HG3	2.30	0.67
1:I:7:LEU:N	1:I:71:GLU:OE2	2.28	0.67
1:J:336:ARG:HG2	1:J:336:ARG:NH1	2.08	0.67
1:J:436:MET:HE3	1:J:467:ASN:HD22	1.59	0.67
1:J:902:PRO:O	1:J:938:ARG:NH1	2.28	0.67
1:K:190:ARG:HD3	1:K:191:TRP:CZ2	2.29	0.67
1:M:293:LEU:N	1:M:293:LEU:HD23	2.10	0.67
1:M:654:TRP:CE2	1:M:666:GLY:HA3	2.28	0.67
1:M:902:PRO:O	1:M:938:ARG:NH1	2.28	0.67
1:B:347:LYS:HB3	1:B:348:PRO:HD2	1.75	0.67
1:B:7:LEU:N	1:B:71:GLU:OE2	2.28	0.67
1:B:917:ARG:NH2	1:B:943:GLU:OE1	2.28	0.67
1:E:190:ARG:HD3	1:E:191:TRP:CZ2	2.29	0.67
1:F:7:LEU:N	1:F:71:GLU:OE2	2.28	0.67
1:G:917:ARG:NH2	1:G:943:GLU:OE1	2.28	0.67
1:H:653[B]:HIS:CD2	1:H:667:GLU:HG3	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:730:LEU:HB3	1:I:731:PRO:HD2	1.75	0.67
1:J:141:ILE:HD13	1:J:143:PHE:CE1	2.30	0.67
1:K:141:ILE:HD13	1:K:143:PHE:CE1	2.30	0.67
1:L:377:LEU:O	1:L:381:GLN:HG3	1.95	0.67
1:L:917:ARG:NH2	1:L:943:GLU:OE1	2.28	0.67
1:M:141:ILE:HD13	1:M:143:PHE:CE1	2.30	0.67
1:N:4:THR:HA	1:N:9:VAL:HG11	1.77	0.67
1:O:917:ARG:NH2	1:O:943:GLU:OE1	2.28	0.67
1:P:190:ARG:HD3	1:P:191:TRP:CZ2	2.29	0.67
1:A:377:LEU:O	1:A:381:GLN:HG3	1.95	0.67
1:C:293:LEU:N	1:C:293:LEU:HD23	2.10	0.67
1:D:4:THR:HA	1:D:9:VAL:HG11	1.77	0.67
1:E:141:ILE:HD13	1:E:143:PHE:CE1	2.30	0.67
1:E:902:PRO:O	1:E:938:ARG:NH1	2.28	0.67
1:F:654:TRP:CE2	1:F:666:GLY:HA3	2.28	0.67
1:G:902:PRO:O	1:G:938:ARG:NH1	2.28	0.67
1:H:190:ARG:HD3	1:H:191:TRP:CZ2	2.29	0.67
1:J:293:LEU:HD23	1:J:293:LEU:N	2.10	0.67
1:J:377:LEU:O	1:J:381:GLN:HG3	1.95	0.67
1:J:7:LEU:N	1:J:71:GLU:OE2	2.28	0.67
1:K:336:ARG:HG2	1:K:336:ARG:HH11	1.59	0.67
1:M:654:TRP:NE1	1:M:666:GLY:HA3	2.09	0.67
1:N:653[B]:HIS:CD2	1:N:667:GLU:HG3	2.29	0.67
1:O:773:LYS:HZ3	1:O:773:LYS:HB2	1.58	0.67
1:P:753:ASN:N	1:P:753:ASN:OD1	2.28	0.67
1:A:347:LYS:HB3	1:A:348:PRO:HD2	1.75	0.66
1:A:4:THR:HA	1:A:9:VAL:HG11	1.77	0.66
1:B:293:LEU:HD23	1:B:293:LEU:N	2.10	0.66
1:C:917:ARG:NH2	1:C:943:GLU:OE1	2.28	0.66
1:D:682:LEU:CD2	1:D:683:PRO:HD2	2.23	0.66
1:E:653[B]:HIS:CD2	1:E:667:GLU:HG3	2.30	0.66
1:F:42:ALA:O	1:F:310:ARG:NH1	2.29	0.66
1:G:178:ARG:NH2	1:G:181:GLU:O	2.27	0.66
1:H:336:ARG:HG2	1:H:336:ARG:NH1	2.08	0.66
1:I:117:GLU:N	1:I:117:GLU:OE1	2.27	0.66
1:I:917:ARG:NH2	1:I:943:GLU:OE1	2.28	0.66
1:J:42:ALA:O	1:J:310:ARG:NH1	2.28	0.66
1:J:730:LEU:HB3	1:J:731:PRO:HD2	1.75	0.66
1:K:653[B]:HIS:CD2	1:K:667:GLU:HG3	2.30	0.66
1:I:287:ASP:CG	1:L:425:ARG:HH22	1.98	0.66
1:N:42:ALA:O	1:N:310:ARG:NH1	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:654:TRP:NE1	1:O:666:GLY:HA3	2.09	0.66
1:P:7:LEU:N	1:P:71:GLU:OE2	2.28	0.66
1:A:141:ILE:HD13	1:A:143:PHE:CE1	2.30	0.66
1:B:141:ILE:HD13	1:B:143:PHE:CE1	2.30	0.66
1:B:3:ILE:HG13	1:B:4:THR:N	2.07	0.66
1:C:347:LYS:HB3	1:C:348:PRO:HD2	1.75	0.66
1:C:42:ALA:O	1:C:310:ARG:NH1	2.29	0.66
1:C:7:LEU:N	1:C:71:GLU:OE2	2.28	0.66
1:C:902:PRO:O	1:C:938:ARG:NH1	2.28	0.66
1:E:917:ARG:NH2	1:E:943:GLU:OE1	2.28	0.66
1:F:141:ILE:HD13	1:F:143:PHE:CE1	2.30	0.66
1:J:336:ARG:HH11	1:J:336:ARG:HG2	1.59	0.66
1:K:293:LEU:N	1:K:293:LEU:HD23	2.10	0.66
1:K:42:ALA:O	1:K:310:ARG:NH1	2.29	0.66
1:L:7:LEU:N	1:L:71:GLU:OE2	2.28	0.66
1:O:178:ARG:NH2	1:O:181:GLU:O	2.27	0.66
1:O:748:CME:SD	1:O:755:ARG:HG2	2.36	0.66
1:P:377:LEU:O	1:P:381:GLN:HG3	1.95	0.66
1:P:3:ILE:HG13	1:P:4:THR:N	2.07	0.66
1:A:748:CME:SD	1:A:755:ARG:HG2	2.36	0.66
1:C:653[B]:HIS:CD2	1:C:667:GLU:HG3	2.30	0.66
1:E:42:ALA:O	1:E:310:ARG:NH1	2.29	0.66
1:E:336:ARG:NH1	1:E:336:ARG:HG2	2.08	0.66
1:G:336:ARG:HH11	1:G:336:ARG:HG2	1.59	0.66
1:G:377:LEU:O	1:G:381:GLN:HG3	1.95	0.66
1:G:654:TRP:NE1	1:G:666:GLY:HA3	2.09	0.66
1:I:4:THR:HA	1:I:9:VAL:HG11	1.77	0.66
1:I:654:TRP:NE1	1:I:666:GLY:HA3	2.09	0.66
1:J:748:CME:SD	1:J:755:ARG:HG2	2.36	0.66
1:K:7:LEU:N	1:K:71:GLU:OE2	2.28	0.66
1:K:902:PRO:O	1:K:938:ARG:NH1	2.28	0.66
1:K:917:ARG:NH2	1:K:943:GLU:OE1	2.28	0.66
1:L:42:ALA:O	1:L:310:ARG:NH1	2.29	0.66
1:N:141:ILE:HD13	1:N:143:PHE:CE1	2.30	0.66
1:N:293:LEU:HD23	1:N:293:LEU:N	2.09	0.66
1:N:336:ARG:HH11	1:N:336:ARG:HG2	1.59	0.66
1:N:427:THR:HA	1:N:436:MET:HE2	1.77	0.66
1:O:377:LEU:O	1:O:381:GLN:HG3	1.95	0.66
1:P:336:ARG:HH11	1:P:336:ARG:HG2	1.59	0.66
1:A:654:TRP:NE1	1:A:666:GLY:HA3	2.09	0.66
1:B:42:ALA:O	1:B:310:ARG:NH1	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:141:ILE:HD13	1:C:143:PHE:CE1	2.30	0.66
1:D:653[B]:HIS:CD2	1:D:667:GLU:HG3	2.29	0.66
1:F:293:LEU:N	1:F:293:LEU:HD23	2.10	0.66
1:H:141:ILE:HD13	1:H:143:PHE:CE1	2.30	0.66
1:L:293:LEU:HD23	1:L:293:LEU:N	2.10	0.66
1:M:377:LEU:O	1:M:381:GLN:HG3	1.95	0.66
1:M:3:ILE:HG13	1:M:4:THR:N	2.07	0.66
1:N:654:TRP:NE1	1:N:666:GLY:HA3	2.09	0.66
1:O:336:ARG:HG2	1:O:336:ARG:HH11	1.59	0.66
1:B:902:PRO:O	1:B:938:ARG:NH1	2.28	0.66
1:D:703:PRO:O	1:D:711:ALA:HB1	1.96	0.66
1:F:748:CME:SD	1:F:755:ARG:HG2	2.36	0.66
1:G:703:PRO:O	1:G:711:ALA:HB1	1.96	0.66
1:H:7:LEU:N	1:H:71:GLU:OE2	2.28	0.66
1:J:178:ARG:NH2	1:J:181:GLU:O	2.27	0.66
1:J:436:MET:HE1	1:J:467:ASN:HD22	1.60	0.66
1:J:703:PRO:O	1:J:711:ALA:HB1	1.96	0.66
1:M:42:ALA:O	1:M:310:ARG:NH1	2.29	0.66
1:M:917:ARG:NH2	1:M:943:GLU:OE1	2.28	0.66
1:O:141:ILE:HD13	1:O:143:PHE:CE1	2.30	0.66
1:O:770:ILE:O	1:O:773:LYS:NZ	2.29	0.66
1:P:748:CME:SD	1:P:755:ARG:HG2	2.36	0.66
1:A:42:ALA:O	1:A:310:ARG:NH1	2.29	0.66
1:B:427:THR:HA	1:B:436:MET:HE2	1.74	0.66
1:D:141:ILE:HD13	1:D:143:PHE:CE1	2.30	0.66
1:D:336:ARG:NH1	1:D:336:ARG:HG2	2.08	0.66
1:G:770:ILE:O	1:G:773:LYS:NZ	2.29	0.66
1:H:748:CME:SD	1:H:755:ARG:HG2	2.36	0.66
1:I:293:LEU:N	1:I:293:LEU:HD23	2.10	0.66
1:I:42:ALA:O	1:I:310:ARG:NH1	2.29	0.66
1:N:178:ARG:NH2	1:N:181:GLU:O	2.27	0.66
1:N:703:PRO:O	1:N:711:ALA:HB1	1.96	0.66
1:N:7:LEU:N	1:N:71:GLU:OE2	2.28	0.66
1:N:748:CME:SD	1:N:755:ARG:HG2	2.36	0.66
1:P:770:ILE:O	1:P:773:LYS:NZ	2.29	0.66
1:C:770:ILE:O	1:C:773:LYS:NZ	2.29	0.66
1:F:377:LEU:O	1:F:381:GLN:HG3	1.95	0.66
1:I:141:ILE:HD13	1:I:143:PHE:CE1	2.30	0.66
1:I:703:PRO:O	1:I:711:ALA:HB1	1.96	0.66
1:I:902:PRO:O	1:I:938:ARG:NH1	2.28	0.66
1:L:141:ILE:HD13	1:L:143:PHE:CE1	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:178:ARG:NH2	1:M:181:GLU:O	2.27	0.66
1:O:703:PRO:O	1:O:711:ALA:HB1	1.96	0.66
1:P:141:ILE:HD13	1:P:143:PHE:CE1	2.30	0.66
1:P:42:ALA:O	1:P:310:ARG:NH1	2.29	0.66
1:B:703:PRO:O	1:B:711:ALA:HB1	1.96	0.66
1:E:770:ILE:O	1:E:773:LYS:NZ	2.29	0.66
1:F:654:TRP:NE1	1:F:666:GLY:HA3	2.09	0.66
1:H:42:ALA:O	1:H:310:ARG:NH1	2.29	0.66
1:L:748:CME:SD	1:L:755:ARG:HG2	2.36	0.66
1:P:653[B]:HIS:CD2	1:P:667:GLU:HG3	2.30	0.66
1:P:703:PRO:O	1:P:711:ALA:HB1	1.96	0.66
1:A:7:LEU:N	1:A:71:GLU:OE2	2.28	0.66
1:A:902:PRO:O	1:A:938:ARG:NH1	2.28	0.66
1:B:4:THR:HA	1:B:9:VAL:HG11	1.77	0.66
1:F:902:PRO:O	1:F:938:ARG:NH1	2.28	0.66
1:G:4:THR:HA	1:G:9:VAL:HG11	1.77	0.66
1:H:703:PRO:O	1:H:711:ALA:HB1	1.96	0.66
1:L:9:VAL:O	1:L:12:GLN:HB3	1.96	0.66
1:M:770:ILE:O	1:M:773:LYS:NZ	2.29	0.66
1:N:902:PRO:O	1:N:938:ARG:NH1	2.28	0.66
1:O:7:LEU:N	1:O:71:GLU:OE2	2.28	0.66
1:C:748:CME:SD	1:C:755:ARG:HG2	2.36	0.66
1:D:42:ALA:O	1:D:310:ARG:NH1	2.29	0.66
1:E:748:CME:SD	1:E:755:ARG:HG2	2.36	0.66
1:G:427:THR:HA	1:G:436:MET:HE2	1.75	0.66
1:G:7:LEU:N	1:G:71:GLU:OE2	2.28	0.66
1:J:4:THR:HA	1:J:9:VAL:HG11	1.77	0.66
1:K:748:CME:SD	1:K:755:ARG:HG2	2.36	0.66
1:M:9:VAL:O	1:M:12:GLN:HB3	1.96	0.66
1:M:748:CME:SD	1:M:755:ARG:HG2	2.36	0.66
1:M:945:ASN:OD1	1:M:950:GLN:NE2	2.25	0.66
1:O:42:ALA:O	1:O:310:ARG:NH1	2.28	0.66
1:O:945:ASN:OD1	1:O:950:GLN:NE2	2.25	0.66
1:A:651:LEU:HD13	1:A:669:PRO:HA	1.79	0.65
1:A:703:PRO:O	1:A:711:ALA:HB1	1.96	0.65
1:E:7:LEU:N	1:E:71:GLU:OE2	2.28	0.65
1:G:42:ALA:O	1:G:310:ARG:NH1	2.28	0.65
1:H:117:GLU:OE1	1:H:117:GLU:N	2.27	0.65
1:H:336:ARG:HG2	1:H:336:ARG:HH11	1.59	0.65
1:K:1021:CME:CZ	1:K:1021:CME:HB3	2.08	0.65
1:L:703:PRO:O	1:L:711:ALA:HB1	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:7:LEU:N	1:M:71:GLU:OE2	2.28	0.65
1:O:9:VAL:O	1:O:12:GLN:HB3	1.96	0.65
1:A:9:VAL:O	1:A:12:GLN:HB3	1.96	0.65
1:B:291:LEU:N	1:B:291:LEU:HD12	2.12	0.65
1:C:377:LEU:O	1:C:381:GLN:HG3	1.95	0.65
1:D:748:CME:SD	1:D:755:ARG:HG2	2.36	0.65
1:G:141:ILE:HD13	1:G:143:PHE:CE1	2.30	0.65
1:H:651:LEU:HD13	1:H:669:PRO:HA	1.78	0.65
1:I:377:LEU:O	1:I:381:GLN:HG3	1.95	0.65
1:I:436:MET:HE1	1:I:467:ASN:HD22	1.59	0.65
1:I:436:MET:HE3	1:I:467:ASN:HD22	1.60	0.65
1:J:9:VAL:O	1:J:12:GLN:HB3	1.96	0.65
1:I:425:ARG:NH2	1:L:287:ASP:OD2	2.29	0.65
1:L:945:ASN:OD1	1:L:950:GLN:NE2	2.25	0.65
1:O:4:THR:HA	1:O:9:VAL:HG11	1.77	0.65
1:A:770:ILE:O	1:A:773:LYS:NZ	2.29	0.65
1:D:902:PRO:O	1:D:938:ARG:NH1	2.28	0.65
1:E:434:PRO:HB3	1:H:434:PRO:HB3	1.76	0.65
1:E:945:ASN:OD1	1:E:950:GLN:NE2	2.25	0.65
1:G:748:CME:SD	1:G:755:ARG:HG2	2.36	0.65
1:H:291:LEU:N	1:H:291:LEU:HD12	2.12	0.65
1:H:3:ILE:HG13	1:H:4:THR:N	2.07	0.65
1:J:651:LEU:HD13	1:J:669:PRO:HA	1.78	0.65
1:K:291:LEU:HD12	1:K:291:LEU:N	2.12	0.65
1:N:291:LEU:HD12	1:N:291:LEU:N	2.12	0.65
1:P:579:ASP:HB2	1:P:580:GLU:OE2	1.97	0.65
1:B:377:LEU:O	1:B:381:GLN:HG3	1.95	0.65
1:B:748:CME:SD	1:B:755:ARG:HG2	2.36	0.65
1:B:770:ILE:O	1:B:773:LYS:NZ	2.29	0.65
1:C:579:ASP:HB2	1:C:580:GLU:OE2	1.97	0.65
1:F:291:LEU:N	1:F:291:LEU:HD12	2.12	0.65
1:H:770:ILE:O	1:H:773:LYS:NZ	2.29	0.65
1:I:770:ILE:O	1:I:773:LYS:NZ	2.29	0.65
1:I:9:VAL:O	1:I:12:GLN:HB3	1.96	0.65
1:L:770:ILE:O	1:L:773:LYS:NZ	2.29	0.65
1:M:753:ASN:OD1	1:M:753:ASN:N	2.28	0.65
1:P:651:LEU:HD13	1:P:669:PRO:HA	1.78	0.65
1:A:579:ASP:HB2	1:A:580:GLU:OE2	1.97	0.65
1:C:3:ILE:HG13	1:C:4:THR:N	2.07	0.65
1:E:579:ASP:OD1	1:E:583:ASN:N	2.29	0.65
1:F:770:ILE:O	1:F:773:LYS:NZ	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:945:ASN:OD1	1:G:950:GLN:NE2	2.25	0.65
1:H:9:VAL:O	1:H:12:GLN:HB3	1.96	0.65
1:H:902:PRO:O	1:H:938:ARG:NH1	2.28	0.65
1:I:651:LEU:HD13	1:I:669:PRO:HA	1.79	0.65
1:K:30:HIS:ND1	1:K:31:PRO:O	2.25	0.65
1:M:30:HIS:ND1	1:M:31:PRO:O	2.25	0.65
1:N:770:ILE:O	1:N:773:LYS:NZ	2.29	0.65
1:P:745:MET:HE2	1:P:745:MET:HA	1.78	0.65
1:P:902:PRO:O	1:P:938:ARG:NH1	2.28	0.65
1:P:4:THR:HA	1:P:9:VAL:HG11	1.77	0.65
1:A:293:LEU:HD23	1:A:293:LEU:N	2.10	0.65
1:E:703:PRO:O	1:E:711:ALA:HB1	1.96	0.65
1:G:651:LEU:HD13	1:G:669:PRO:HA	1.79	0.65
1:G:689:GLU:OE2	1:G:689:GLU:HA	1.97	0.65
1:H:4:THR:HA	1:H:9:VAL:HG11	1.77	0.65
1:I:291:LEU:N	1:I:291:LEU:HD12	2.12	0.65
1:K:579:ASP:OD1	1:K:583:ASN:N	2.29	0.65
1:K:651:LEU:HD13	1:K:669:PRO:HA	1.79	0.65
1:M:43:ARG:HG2	1:M:43:ARG:NH1	1.95	0.65
1:O:579:ASP:HB2	1:O:580:GLU:OE2	1.97	0.65
1:O:651:LEU:HD13	1:O:669:PRO:HA	1.78	0.65
1:B:178:ARG:HB2	1:B:178:ARG:NH1	2.12	0.65
1:C:291:LEU:HD12	1:C:291:LEU:N	2.12	0.65
1:E:689:GLU:HA	1:E:689:GLU:OE2	1.97	0.65
1:F:703:PRO:O	1:F:711:ALA:HB1	1.96	0.65
1:G:30:HIS:ND1	1:G:31:PRO:O	2.25	0.65
1:J:291:LEU:HD12	1:J:291:LEU:N	2.12	0.65
1:K:579:ASP:HB2	1:K:580:GLU:OE2	1.97	0.65
1:P:9:VAL:O	1:P:12:GLN:HB3	1.96	0.65
1:A:689:GLU:OE2	1:A:689:GLU:HA	1.97	0.65
1:B:689:GLU:HA	1:B:689:GLU:OE2	1.97	0.65
1:C:651:LEU:HD13	1:C:669:PRO:HA	1.79	0.65
1:D:117:GLU:N	1:D:117:GLU:OE1	2.27	0.65
1:F:9:VAL:O	1:F:12:GLN:HB3	1.96	0.65
1:H:436:MET:HE3	1:H:467:ASN:HD22	1.62	0.65
1:J:770:ILE:O	1:J:773:LYS:NZ	2.29	0.65
1:L:579:ASP:HB2	1:L:580:GLU:OE2	1.97	0.65
1:M:579:ASP:HB2	1:M:580:GLU:OE2	1.97	0.65
1:M:703:PRO:O	1:M:711:ALA:HB1	1.96	0.65
1:O:30:HIS:ND1	1:O:31:PRO:O	2.25	0.65
1:C:178:ARG:NH1	1:C:178:ARG:HB2	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:261:TRP:CH2	1:C:266:GLN:HB2	2.32	0.65
1:C:745:MET:HE2	1:C:745:MET:HA	1.78	0.65
1:E:291:LEU:HD12	1:E:291:LEU:N	2.12	0.65
1:E:579:ASP:HB2	1:E:580:GLU:OE2	1.97	0.65
1:F:579:ASP:HB2	1:F:580:GLU:OE2	1.97	0.65
1:G:291:LEU:N	1:G:291:LEU:HD12	2.12	0.65
1:J:178:ARG:NH1	1:J:178:ARG:HB2	2.12	0.65
1:K:178:ARG:HB2	1:K:178:ARG:NH1	2.12	0.65
1:N:579:ASP:HB2	1:N:580:GLU:OE2	1.97	0.65
1:N:9:VAL:O	1:N:12:GLN:HB3	1.96	0.65
1:P:178:ARG:HB2	1:P:178:ARG:NH1	2.12	0.65
1:P:291:LEU:HD12	1:P:291:LEU:N	2.12	0.65
1:C:703:PRO:O	1:C:711:ALA:HB1	1.96	0.65
1:D:9:VAL:O	1:D:12:GLN:HB3	1.96	0.65
1:J:579:ASP:HB2	1:J:580:GLU:OE2	1.97	0.65
1:K:703:PRO:O	1:K:711:ALA:HB1	1.96	0.65
1:K:770:ILE:O	1:K:773:LYS:NZ	2.29	0.65
1:L:291:LEU:HD12	1:L:291:LEU:N	2.12	0.65
1:M:689:GLU:OE2	1:M:689:GLU:HA	1.97	0.65
1:A:291:LEU:HD12	1:A:291:LEU:N	2.12	0.64
1:C:689:GLU:HA	1:C:689:GLU:OE2	1.97	0.64
1:D:59:ARG:NH2	1:D:81:ALA:O	2.31	0.64
1:G:436:MET:HE3	1:G:467:ASN:HD22	1.60	0.64
1:J:945:ASN:OD1	1:J:950:GLN:NE2	2.25	0.64
1:L:261:TRP:CH2	1:L:266:GLN:HB2	2.32	0.64
1:L:579:ASP:OD1	1:L:583:ASN:N	2.29	0.64
1:M:178:ARG:NH1	1:M:178:ARG:HB2	2.12	0.64
1:M:651:LEU:HD13	1:M:669:PRO:HA	1.79	0.64
1:O:117:GLU:OE1	1:O:117:GLU:N	2.27	0.64
1:O:689:GLU:OE2	1:O:689:GLU:HA	1.97	0.64
1:D:291:LEU:HD12	1:D:291:LEU:N	2.12	0.64
1:D:770:ILE:O	1:D:773:LYS:NZ	2.29	0.64
1:G:261:TRP:CH2	1:G:266:GLN:HB2	2.32	0.64
1:H:579:ASP:HB2	1:H:580:GLU:OE2	1.97	0.64
1:I:579:ASP:HB2	1:I:580:GLU:OE2	1.97	0.64
1:I:748:CME:SD	1:I:755:ARG:HG2	2.36	0.64
1:I:753:ASN:OD1	1:I:753:ASN:N	2.28	0.64
1:J:689:GLU:HA	1:J:689:GLU:OE2	1.97	0.64
1:L:651:LEU:HD13	1:L:669:PRO:HA	1.78	0.64
1:L:689:GLU:OE2	1:L:689:GLU:HA	1.97	0.64
1:M:291:LEU:HD12	1:M:291:LEU:N	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:434:PRO:HB3	1:P:434:PRO:HB3	1.78	0.64
1:N:117:GLU:OE1	1:N:117:GLU:N	2.27	0.64
1:A:261:TRP:CH2	1:A:266:GLN:HB2	2.32	0.64
1:A:773:LYS:HB2	1:A:773:LYS:HZ2	1.61	0.64
1:E:427:THR:HA	1:E:436:MET:HE2	1.79	0.64
1:E:4:THR:HA	1:E:9:VAL:HG11	1.77	0.64
1:G:117:GLU:N	1:G:117:GLU:OE1	2.27	0.64
1:I:178:ARG:NH1	1:I:178:ARG:HB2	2.12	0.64
1:I:945:ASN:OD1	1:I:950:GLN:NE2	2.25	0.64
1:K:9:VAL:O	1:K:12:GLN:HB3	1.96	0.64
1:M:4:THR:HA	1:M:9:VAL:HG11	1.77	0.64
1:N:436:MET:HE1	1:N:467:ASN:HD22	1.60	0.64
1:O:261:TRP:CH2	1:O:266:GLN:HB2	2.32	0.64
1:O:291:LEU:N	1:O:291:LEU:HD12	2.12	0.64
1:O:59:ARG:NH2	1:O:81:ALA:O	2.30	0.64
1:B:117:GLU:OE1	1:B:117:GLU:N	2.27	0.64
1:D:773:LYS:HB2	1:D:773:LYS:HZ2	1.62	0.64
1:E:178:ARG:NH1	1:E:178:ARG:HB2	2.12	0.64
1:G:9:VAL:O	1:G:12:GLN:HB3	1.96	0.64
1:G:178:ARG:HB2	1:G:178:ARG:NH1	2.12	0.64
1:G:579:ASP:HB2	1:G:580:GLU:OE2	1.97	0.64
1:I:261:TRP:CH2	1:I:266:GLN:HB2	2.32	0.64
1:I:782:ASP:HA	1:I:884:LEU:HD23	1.80	0.64
1:L:30:HIS:ND1	1:L:31:PRO:O	2.25	0.64
1:N:663:LEU:HD23	1:N:663:LEU:N	2.13	0.64
1:O:178:ARG:NH1	1:O:178:ARG:HB2	2.12	0.64
1:B:9:VAL:O	1:B:12:GLN:HB3	1.96	0.64
1:B:261:TRP:CH2	1:B:266:GLN:HB2	2.32	0.64
1:B:753:ASN:OD1	1:B:753:ASN:N	2.28	0.64
1:C:9:VAL:O	1:C:12:GLN:HB3	1.96	0.64
1:D:261:TRP:CH2	1:D:266:GLN:HB2	2.32	0.64
1:D:689:GLU:HA	1:D:689:GLU:OE2	1.97	0.64
1:E:9:VAL:O	1:E:12:GLN:HB3	1.96	0.64
1:E:54:LEU:N	1:E:54:LEU:HD23	2.12	0.64
1:E:651:LEU:HD13	1:E:669:PRO:HA	1.79	0.64
1:I:689:GLU:OE2	1:I:689:GLU:HA	1.97	0.64
1:I:773:LYS:HB2	1:I:773:LYS:HZ3	1.59	0.64
1:L:59:ARG:NH2	1:L:81:ALA:O	2.31	0.64
1:M:54:LEU:HD23	1:M:54:LEU:N	2.12	0.64
1:O:753:ASN:OD1	1:O:753:ASN:N	2.28	0.64
1:P:945:ASN:OD1	1:P:950:GLN:NE2	2.25	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:634:GLN:O	1:A:682:LEU:HB2	1.98	0.64
1:C:36:TRP:CE2	1:C:42:ALA:HA	2.33	0.64
1:D:634:GLN:O	1:D:682:LEU:HB2	1.98	0.64
1:E:663:LEU:N	1:E:663:LEU:HD23	2.13	0.64
1:E:59:ARG:NH2	1:E:81:ALA:O	2.31	0.64
1:F:178:ARG:HB2	1:F:178:ARG:NH1	2.12	0.64
1:F:261:TRP:CH2	1:F:266:GLN:HB2	2.32	0.64
1:F:651:LEU:HD13	1:F:669:PRO:HA	1.78	0.64
1:G:59:ARG:NH2	1:G:81:ALA:O	2.31	0.64
1:I:69:VAL:CG1	1:I:70:PRO:HD2	2.28	0.64
1:K:689:GLU:HA	1:K:689:GLU:OE2	1.97	0.64
1:L:69:VAL:CG1	1:L:70:PRO:HD2	2.28	0.64
1:M:418:HIS:O	1:P:282:ARG:HD2	1.96	0.64
1:M:663:LEU:N	1:M:663:LEU:HD23	2.13	0.64
1:N:689:GLU:OE2	1:N:689:GLU:HA	1.97	0.64
1:O:69:VAL:CG1	1:O:70:PRO:HD2	2.28	0.64
1:P:36:TRP:CE2	1:P:42:ALA:HA	2.33	0.64
1:P:634:GLN:O	1:P:682:LEU:HB2	1.98	0.64
1:D:651:LEU:HD13	1:D:669:PRO:HA	1.78	0.64
1:E:261:TRP:CH2	1:E:266:GLN:HB2	2.32	0.64
1:E:634:GLN:O	1:E:682:LEU:HB2	1.98	0.64
1:G:753:ASN:OD1	1:G:753:ASN:N	2.28	0.64
1:H:634:GLN:O	1:H:682:LEU:HB2	1.98	0.64
1:H:663:LEU:HD23	1:H:663:LEU:N	2.13	0.64
1:J:59:ARG:NH2	1:J:81:ALA:O	2.31	0.64
1:L:36:TRP:CE2	1:L:42:ALA:HA	2.33	0.64
1:N:3:ILE:HG13	1:N:4:THR:N	2.07	0.64
1:N:651:LEU:HD13	1:N:669:PRO:HA	1.78	0.64
1:A:36:TRP:CE2	1:A:42:ALA:HA	2.33	0.64
1:C:69:VAL:CG1	1:C:70:PRO:HD2	2.28	0.64
1:E:429:ASP:OD1	1:E:431:ARG:HG3	1.98	0.64
1:J:69:VAL:CG1	1:J:70:PRO:HD2	2.28	0.64
1:K:634:GLN:O	1:K:682:LEU:HB2	1.98	0.64
1:M:59:ARG:NH2	1:M:81:ALA:O	2.30	0.64
1:N:178:ARG:NH1	1:N:178:ARG:HB2	2.12	0.64
1:N:261:TRP:CH2	1:N:266:GLN:HB2	2.32	0.64
1:O:634:GLN:O	1:O:682:LEU:HB2	1.98	0.64
1:P:261:TRP:CH2	1:P:266:GLN:HB2	2.32	0.64
1:A:663:LEU:HD23	1:A:663:LEU:N	2.13	0.64
1:B:30:HIS:ND1	1:B:31:PRO:O	2.25	0.64
1:B:429:ASP:OD1	1:B:431:ARG:HG3	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:634:GLN:O	1:B:682:LEU:HB2	1.98	0.64
1:B:59:ARG:NH2	1:B:81:ALA:O	2.31	0.64
1:C:945:ASN:OD1	1:C:950:GLN:NE2	2.25	0.64
1:G:54:LEU:N	1:G:54:LEU:HD23	2.13	0.64
1:H:261:TRP:CH2	1:H:266:GLN:HB2	2.32	0.64
1:I:59:ARG:NH2	1:I:81:ALA:O	2.30	0.64
1:J:634:GLN:O	1:J:682:LEU:HB2	1.98	0.64
1:K:59:ARG:NH2	1:K:81:ALA:O	2.31	0.64
1:K:69:VAL:CG1	1:K:70:PRO:HD2	2.28	0.64
1:M:782:ASP:HA	1:M:884:LEU:HD23	1.80	0.64
1:P:1021:CME:CZ	1:P:1021:CME:HB3	2.08	0.64
1:P:689:GLU:OE2	1:P:689:GLU:HA	1.97	0.64
1:A:117:GLU:OE1	1:A:117:GLU:N	2.27	0.64
1:B:579:ASP:HB2	1:B:580:GLU:OE2	1.97	0.64
1:C:429:ASP:OD1	1:C:431:ARG:HG3	1.98	0.64
1:D:30:HIS:ND1	1:D:31:PRO:O	2.25	0.64
1:D:429:ASP:OD1	1:D:431:ARG:HG3	1.98	0.64
1:D:579:ASP:HB2	1:D:580:GLU:OE2	1.97	0.64
1:D:69:VAL:CG1	1:D:70:PRO:HD2	2.28	0.64
1:J:782:ASP:HA	1:J:884:LEU:HD23	1.80	0.64
1:B:651:LEU:HD13	1:B:669:PRO:HA	1.78	0.63
1:E:36:TRP:CE2	1:E:42:ALA:HA	2.33	0.63
1:I:634:GLN:O	1:I:682:LEU:HB2	1.98	0.63
1:L:117:GLU:OE1	1:L:117:GLU:N	2.27	0.63
1:L:429:ASP:OD1	1:L:431:ARG:HG3	1.98	0.63
1:L:782:ASP:HA	1:L:884:LEU:HD23	1.80	0.63
1:M:261:TRP:CH2	1:M:266:GLN:HB2	2.32	0.63
1:N:30:HIS:ND1	1:N:31:PRO:O	2.25	0.63
1:N:782:ASP:HA	1:N:884:LEU:HD23	1.80	0.63
1:P:54:LEU:HD23	1:P:54:LEU:N	2.13	0.63
1:B:218:PRO:O	1:B:221:GLN:NE2	2.32	0.63
1:C:59:ARG:NH2	1:C:81:ALA:O	2.30	0.63
1:F:36:TRP:CE2	1:F:42:ALA:HA	2.33	0.63
1:G:36:TRP:CE2	1:G:42:ALA:HA	2.33	0.63
1:G:429:ASP:OD1	1:G:431:ARG:HG3	1.98	0.63
1:I:36:TRP:CE2	1:I:42:ALA:HA	2.33	0.63
1:J:429:ASP:OD1	1:J:431:ARG:HG3	1.98	0.63
1:K:429:ASP:OD1	1:K:431:ARG:HG3	1.98	0.63
1:P:429:ASP:OD1	1:P:431:ARG:HG3	1.98	0.63
1:P:782:ASP:HA	1:P:884:LEU:HD23	1.79	0.63
1:A:59:ARG:NH2	1:A:81:ALA:O	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:36:TRP:CE2	1:B:42:ALA:HA	2.33	0.63
1:C:634:GLN:O	1:C:682:LEU:HB2	1.98	0.63
1:D:436:MET:HE1	1:D:467:ASN:HD22	1.63	0.63
1:F:782:ASP:HA	1:F:884:LEU:HD23	1.80	0.63
1:G:634:GLN:O	1:G:682:LEU:HB2	1.98	0.63
1:G:69:VAL:CG1	1:G:70:PRO:HD2	2.28	0.63
1:H:178:ARG:HB2	1:H:178:ARG:NH1	2.12	0.63
1:H:429:ASP:OD1	1:H:431:ARG:HG3	1.98	0.63
1:J:261:TRP:CH2	1:J:266:GLN:HB2	2.32	0.63
1:J:853:ARG:NH1	1:J:871:GLU:OE2	2.32	0.63
1:K:261:TRP:CH2	1:K:266:GLN:HB2	2.32	0.63
1:L:773:LYS:HZ2	1:L:773:LYS:HB2	1.63	0.63
1:M:218:PRO:O	1:M:221:GLN:NE2	2.32	0.63
1:M:773:LYS:HB2	1:M:773:LYS:HZ3	1.63	0.63
1:O:36:TRP:CE2	1:O:42:ALA:HA	2.33	0.63
1:O:663:LEU:N	1:O:663:LEU:HD23	2.13	0.63
1:O:853:ARG:NH1	1:O:871:GLU:OE2	2.32	0.63
1:P:853:ARG:NH1	1:P:871:GLU:OE2	2.32	0.63
1:A:3:ILE:HG13	1:A:4:THR:N	2.07	0.63
1:A:853:ARG:NH1	1:A:871:GLU:OE2	2.32	0.63
1:C:54:LEU:HD23	1:C:54:LEU:N	2.12	0.63
1:C:579:ASP:OD1	1:C:583:ASN:N	2.29	0.63
1:D:3:ILE:HG13	1:D:4:THR:N	2.07	0.63
1:E:218:PRO:O	1:E:221:GLN:NE2	2.32	0.63
1:F:853:ARG:NH1	1:F:871:GLU:OE2	2.32	0.63
1:G:63:PHE:CB	1:G:64:PRO:HD2	2.25	0.63
1:H:54:LEU:N	1:H:54:LEU:HD23	2.12	0.63
1:I:853:ARG:NH1	1:I:871:GLU:OE2	2.32	0.63
1:K:117:GLU:OE1	1:K:117:GLU:N	2.27	0.63
1:K:427:THR:HA	1:K:436:MET:HE2	1.79	0.63
1:L:634:GLN:O	1:L:682:LEU:HB2	1.98	0.63
1:N:429:ASP:OD1	1:N:431:ARG:HG3	1.98	0.63
1:P:69:VAL:CG1	1:P:70:PRO:HD2	2.28	0.63
1:D:178:ARG:NH1	1:D:178:ARG:HB2	2.12	0.63
1:D:36:TRP:CE2	1:D:42:ALA:HA	2.33	0.63
1:F:218:PRO:O	1:F:221:GLN:NE2	2.32	0.63
1:G:218:PRO:O	1:G:221:GLN:NE2	2.32	0.63
1:H:218:PRO:O	1:H:221:GLN:NE2	2.32	0.63
1:I:425:ARG:HH22	1:L:287:ASP:CG	2.02	0.63
1:L:6:SER:OG	1:L:9:VAL:HB	1.99	0.63
1:M:853:ARG:NH1	1:M:871:GLU:OE2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:36:TRP:CE2	1:N:42:ALA:HA	2.33	0.63
1:P:218:PRO:O	1:P:221:GLN:NE2	2.32	0.63
1:C:782:ASP:HA	1:C:884:LEU:HD23	1.80	0.63
1:C:6:SER:OG	1:C:9:VAL:HB	1.99	0.63
1:D:651:LEU:CD1	1:D:669:PRO:HA	2.29	0.63
1:D:853:ARG:NH1	1:D:871:GLU:OE2	2.32	0.63
1:E:782:ASP:HA	1:E:884:LEU:HD23	1.80	0.63
1:F:634:GLN:O	1:F:682:LEU:HB2	1.98	0.63
1:F:59:ARG:NH2	1:F:81:ALA:O	2.31	0.63
1:G:6:SER:OG	1:G:9:VAL:HB	1.99	0.63
1:J:117:GLU:N	1:J:117:GLU:OE1	2.27	0.63
1:J:36:TRP:CE2	1:J:42:ALA:HA	2.33	0.63
1:N:218:PRO:O	1:N:221:GLN:NE2	2.32	0.63
1:N:69:VAL:CG1	1:N:70:PRO:HD2	2.28	0.63
1:P:59:ARG:NH2	1:P:81:ALA:O	2.31	0.63
1:A:178:ARG:NH1	1:A:178:ARG:HB2	2.12	0.63
1:A:69:VAL:CG1	1:A:70:PRO:HD2	2.28	0.63
1:B:6:SER:OG	1:B:9:VAL:HB	1.99	0.63
1:B:782:ASP:HA	1:B:884:LEU:HD23	1.80	0.63
1:E:853:ARG:NH1	1:E:871:GLU:OE2	2.32	0.63
1:F:360:HIS:CE1	1:F:361:PRO:HD2	2.34	0.63
1:F:689:GLU:HA	1:F:689:GLU:OE2	1.97	0.63
1:E:425:ARG:NH2	1:H:287:ASP:OD2	2.31	0.63
1:H:689:GLU:HA	1:H:689:GLU:OE2	1.97	0.63
1:I:3:ILE:HG13	1:I:4:THR:N	2.07	0.63
1:L:178:ARG:HB2	1:L:178:ARG:NH1	2.12	0.63
1:L:218:PRO:O	1:L:221:GLN:NE2	2.32	0.63
1:M:427:THR:HA	1:M:436:MET:HE2	1.81	0.63
1:N:634:GLN:O	1:N:682:LEU:HB2	1.98	0.63
1:N:651:LEU:CD1	1:N:669:PRO:HA	2.29	0.63
1:O:360:HIS:CE1	1:O:361:PRO:HD2	2.34	0.63
1:P:651:LEU:CD1	1:P:669:PRO:HA	2.29	0.63
1:B:63:PHE:CB	1:B:64:PRO:HD2	2.25	0.63
1:C:360:HIS:CE1	1:C:361:PRO:HD2	2.34	0.63
1:C:745:MET:CE	1:C:745:MET:HA	2.29	0.63
1:D:745:MET:HA	1:D:745:MET:CE	2.29	0.63
1:F:429:ASP:OD1	1:F:431:ARG:HG3	1.98	0.63
1:F:651:LEU:CD1	1:F:669:PRO:HA	2.29	0.63
1:F:69:VAL:CG1	1:F:70:PRO:HD2	2.28	0.63
1:H:651:LEU:CD1	1:H:669:PRO:HA	2.29	0.63
1:H:59:ARG:NH2	1:H:81:ALA:O	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:786:ARG:HH11	1:J:990:HIS:HE1	1.47	0.63
1:K:663:LEU:N	1:K:663:LEU:HD23	2.13	0.63
1:K:753:ASN:N	1:K:753:ASN:OD1	2.28	0.63
1:M:429:ASP:OD1	1:M:431:ARG:HG3	1.98	0.63
1:M:634:GLN:O	1:M:682:LEU:HB2	1.98	0.63
1:M:724:GLU:O	1:N:847:LYS:NZ	2.23	0.63
1:N:59:ARG:NH2	1:N:81:ALA:O	2.31	0.63
1:A:6:SER:OG	1:A:9:VAL:HB	1.99	0.63
1:B:853:ARG:NH1	1:B:871:GLU:OE2	2.32	0.63
1:C:651:LEU:CD1	1:C:669:PRO:HA	2.29	0.63
1:D:782:ASP:HA	1:D:884:LEU:HD23	1.80	0.63
1:E:69:VAL:CG1	1:E:70:PRO:HD2	2.28	0.63
1:E:6:SER:OG	1:E:9:VAL:HB	1.99	0.63
1:F:3:ILE:HG13	1:F:4:THR:N	2.07	0.63
1:G:853:ARG:NH1	1:G:871:GLU:OE2	2.32	0.63
1:H:945:ASN:OD1	1:H:950:GLN:NE2	2.25	0.63
1:I:651:LEU:CD1	1:I:669:PRO:HA	2.29	0.63
1:I:6:SER:OG	1:I:9:VAL:HB	1.99	0.63
1:K:36:TRP:CE2	1:K:42:ALA:HA	2.33	0.63
1:L:745:MET:HA	1:L:745:MET:CE	2.29	0.63
1:B:663:LEU:N	1:B:663:LEU:HD23	2.13	0.62
1:C:218:PRO:O	1:C:221:GLN:NE2	2.32	0.62
1:E:740:LEU:HD13	1:E:749:ILE:CD1	2.30	0.62
1:H:36:TRP:CE2	1:H:42:ALA:HA	2.33	0.62
1:H:782:ASP:HA	1:H:884:LEU:HD23	1.80	0.62
1:I:745:MET:HA	1:I:745:MET:CE	2.29	0.62
1:K:786:ARG:HH11	1:K:990:HIS:HE1	1.47	0.62
1:M:36:TRP:CE2	1:M:42:ALA:HA	2.33	0.62
1:M:69:VAL:CG1	1:M:70:PRO:HD2	2.28	0.62
1:M:740:LEU:HD13	1:M:749:ILE:CD1	2.29	0.62
1:B:436:MET:HE3	1:B:467:ASN:HD22	1.62	0.62
1:E:651:LEU:CD1	1:E:669:PRO:HA	2.29	0.62
1:F:579:ASP:OD1	1:F:583:ASN:N	2.29	0.62
1:I:218:PRO:O	1:I:221:GLN:NE2	2.32	0.62
1:I:429:ASP:OD1	1:I:431:ARG:HG3	1.98	0.62
1:J:218:PRO:O	1:J:221:GLN:NE2	2.32	0.62
1:J:786:ARG:HH11	1:J:990:HIS:CE1	2.18	0.62
1:M:30:HIS:HB2	1:M:31:PRO:CD	2.30	0.62
1:M:6:SER:OG	1:M:9:VAL:HB	1.99	0.62
1:N:853:ARG:NH1	1:N:871:GLU:OE2	2.32	0.62
1:O:651:LEU:CD1	1:O:669:PRO:HA	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:786:ARG:HH11	1:P:990:HIS:CE1	2.18	0.62
1:B:740:LEU:HD13	1:B:749:ILE:CD1	2.30	0.62
1:H:30:HIS:HB2	1:H:31:PRO:CD	2.29	0.62
1:I:254:LEU:C	1:I:255:ARG:HG2	2.20	0.62
1:I:701:VAL:HG12	1:I:702:GLN:N	2.15	0.62
1:I:786:ARG:HH11	1:I:990:HIS:CE1	2.18	0.62
1:K:651:LEU:CD1	1:K:669:PRO:HA	2.29	0.62
1:K:782:ASP:HA	1:K:884:LEU:HD23	1.80	0.62
1:L:651:LEU:CD1	1:L:669:PRO:HA	2.29	0.62
1:L:753:ASN:N	1:L:753:ASN:OD1	2.28	0.62
1:L:786:ARG:HH11	1:L:990:HIS:CE1	2.18	0.62
1:M:360:HIS:CE1	1:M:361:PRO:HD2	2.34	0.62
1:M:651:LEU:CD1	1:M:669:PRO:HA	2.29	0.62
1:P:254:LEU:C	1:P:255:ARG:HG2	2.20	0.62
1:P:701:VAL:HG12	1:P:702:GLN:N	2.14	0.62
1:A:282:ARG:HG3	1:D:423:MET:HB2	1.80	0.62
1:B:30:HIS:HB2	1:B:31:PRO:CD	2.30	0.62
1:B:69:VAL:CG1	1:B:70:PRO:HD2	2.28	0.62
1:C:30:HIS:ND1	1:C:31:PRO:O	2.25	0.62
1:C:853:ARG:NH1	1:C:871:GLU:OE2	2.32	0.62
1:H:853:ARG:NH1	1:H:871:GLU:OE2	2.32	0.62
1:H:786:ARG:HH11	1:H:990:HIS:CE1	2.17	0.62
1:K:6:SER:OG	1:K:9:VAL:HB	1.99	0.62
1:O:473:ARG:HD3	1:O:473:ARG:O	2.00	0.62
1:O:6:SER:OG	1:O:9:VAL:HB	1.99	0.62
1:P:473:ARG:HD3	1:P:473:ARG:O	2.00	0.62
1:P:6:SER:OG	1:P:9:VAL:HB	1.99	0.62
1:A:218:PRO:O	1:A:221:GLN:NE2	2.32	0.62
1:B:651:LEU:CD1	1:B:669:PRO:HA	2.29	0.62
1:B:786:ARG:HH11	1:B:990:HIS:CE1	2.18	0.62
1:D:218:PRO:O	1:D:221:GLN:NE2	2.32	0.62
1:D:579:ASP:OD1	1:D:583:ASN:N	2.29	0.62
1:D:952:ARG:HH11	1:D:952:ARG:CB	2.13	0.62
1:E:701:VAL:HG12	1:E:702:GLN:N	2.15	0.62
1:F:54:LEU:N	1:F:54:LEU:HD23	2.12	0.62
1:E:287:ASP:OD2	1:H:425:ARG:NH2	2.32	0.62
1:H:773:LYS:HB2	1:H:773:LYS:HZ3	1.62	0.62
1:K:473:ARG:O	1:K:473:ARG:HD3	2.00	0.62
1:K:853:ARG:NH1	1:K:871:GLU:OE2	2.32	0.62
1:L:663:LEU:N	1:L:663:LEU:HD23	2.13	0.62
1:L:853:ARG:NH1	1:L:871:GLU:OE2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:360:HIS:CE1	1:N:361:PRO:HD2	2.34	0.62
1:N:579:ASP:OD1	1:N:583:ASN:N	2.29	0.62
1:O:218:PRO:O	1:O:221:GLN:NE2	2.32	0.62
1:O:740:LEU:HD13	1:O:749:ILE:CD1	2.30	0.62
1:P:579:ASP:OD1	1:P:583:ASN:N	2.29	0.62
1:P:745:MET:HA	1:P:745:MET:CE	2.29	0.62
1:A:429:ASP:OD1	1:A:431:ARG:HG3	1.98	0.62
1:A:745:MET:CE	1:A:745:MET:HA	2.29	0.62
1:A:782:ASP:HA	1:A:884:LEU:HD23	1.80	0.62
1:B:54:LEU:HD23	1:B:54:LEU:N	2.13	0.62
1:C:740:LEU:HD13	1:C:749:ILE:CD1	2.29	0.62
1:D:786:ARG:HH11	1:D:990:HIS:CE1	2.18	0.62
1:E:436:MET:HE1	1:E:467:ASN:HD22	1.63	0.62
1:E:745:MET:CE	1:E:745:MET:HA	2.29	0.62
1:F:254:LEU:C	1:F:255:ARG:HG2	2.20	0.62
1:F:663:LEU:HD23	1:F:663:LEU:N	2.13	0.62
1:F:906:TYR:HB3	1:F:907:PRO:HD2	1.82	0.62
1:G:740:LEU:HD13	1:G:749:ILE:CD1	2.30	0.62
1:G:786:ARG:HH11	1:G:990:HIS:CE1	2.18	0.62
1:H:69:VAL:CG1	1:H:70:PRO:HD2	2.28	0.62
1:H:745:MET:HA	1:H:745:MET:CE	2.29	0.62
1:I:663:LEU:HD23	1:I:663:LEU:N	2.13	0.62
1:J:701:VAL:HG12	1:J:702:GLN:N	2.15	0.62
1:K:360:HIS:CE1	1:K:361:PRO:HD2	2.34	0.62
1:K:745:MET:HA	1:K:745:MET:CE	2.29	0.62
1:K:786:ARG:HH11	1:K:990:HIS:CE1	2.18	0.62
1:L:702:GLN:O	1:L:712:GLY:N	2.32	0.62
1:L:952:ARG:CB	1:L:952:ARG:HH11	2.13	0.62
1:M:701:VAL:HG12	1:M:702:GLN:N	2.15	0.62
1:M:786:ARG:HH11	1:M:990:HIS:CE1	2.18	0.62
1:N:54:LEU:HD23	1:N:54:LEU:N	2.13	0.62
1:O:786:ARG:HH11	1:O:990:HIS:CE1	2.18	0.62
1:A:651:LEU:CD1	1:A:669:PRO:HA	2.29	0.62
1:A:701:VAL:HG12	1:A:702:GLN:N	2.14	0.62
1:A:740:LEU:HD13	1:A:749:ILE:CD1	2.30	0.62
1:A:906:TYR:HB3	1:A:907:PRO:HD2	1.82	0.62
1:A:952:ARG:HH11	1:A:952:ARG:CB	2.13	0.62
1:A:786:ARG:HH11	1:A:990:HIS:CE1	2.18	0.62
1:C:702:GLN:O	1:C:712:GLY:N	2.32	0.62
1:D:6:SER:OG	1:D:9:VAL:HB	1.99	0.62
1:E:952:ARG:CB	1:E:952:ARG:HH11	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:745:MET:HA	1:F:745:MET:CE	2.29	0.62
1:H:360:HIS:CE1	1:H:361:PRO:HD2	2.34	0.62
1:I:473:ARG:HD3	1:I:473:ARG:O	2.00	0.62
1:J:579:ASP:OD1	1:J:583:ASN:N	2.29	0.62
1:J:651:LEU:CD1	1:J:669:PRO:HA	2.29	0.62
1:J:740:LEU:HD13	1:J:749:ILE:CD1	2.30	0.62
1:N:773:LYS:HZ1	1:N:773:LYS:HB2	1.63	0.62
1:O:54:LEU:N	1:O:54:LEU:HD23	2.12	0.62
1:A:254:LEU:C	1:A:255:ARG:HG2	2.20	0.62
1:C:786:ARG:HH11	1:C:990:HIS:CE1	2.18	0.62
1:E:786:ARG:HH11	1:E:990:HIS:CE1	2.18	0.62
1:F:30:HIS:HB2	1:F:31:PRO:CD	2.30	0.62
1:G:663:LEU:HD23	1:G:663:LEU:N	2.13	0.62
1:G:782:ASP:HA	1:G:884:LEU:HD23	1.80	0.62
1:G:952:ARG:HH11	1:G:952:ARG:CB	2.13	0.62
1:H:740:LEU:HD13	1:H:749:ILE:CD1	2.30	0.62
1:K:254:LEU:C	1:K:255:ARG:HG2	2.20	0.62
1:J:287:ASP:OD2	1:K:425:ARG:NH2	2.32	0.62
1:M:579:ASP:CG	1:M:583:ASN:HB2	2.20	0.62
1:N:579:ASP:CG	1:N:583:ASN:HB2	2.20	0.62
1:N:740:LEU:HD13	1:N:749:ILE:CD1	2.30	0.62
1:O:782:ASP:HA	1:O:884:LEU:HD23	1.80	0.62
1:O:952:ARG:CB	1:O:952:ARG:HH11	2.13	0.62
1:C:473:ARG:HD3	1:C:473:ARG:O	2.00	0.62
1:D:663:LEU:N	1:D:663:LEU:HD23	2.13	0.62
1:E:360:HIS:CE1	1:E:361:PRO:HD2	2.34	0.62
1:E:579:ASP:CG	1:E:583:ASN:HB2	2.20	0.62
1:F:579:ASP:CG	1:F:583:ASN:HB2	2.20	0.62
1:F:740:LEU:HD13	1:F:749:ILE:CD1	2.30	0.62
1:H:753:ASN:OD1	1:H:753:ASN:N	2.28	0.62
1:J:360:HIS:CE1	1:J:361:PRO:HD2	2.34	0.62
1:K:218:PRO:O	1:K:221:GLN:NE2	2.32	0.62
1:L:740:LEU:HD13	1:L:749:ILE:CD1	2.30	0.62
1:N:254:LEU:C	1:N:255:ARG:HG2	2.20	0.62
1:N:906:TYR:HB3	1:N:907:PRO:HD2	1.82	0.62
1:O:429:ASP:OD1	1:O:431:ARG:HG3	1.98	0.62
1:P:360:HIS:CE1	1:P:361:PRO:HD2	2.34	0.62
1:P:952:ARG:CB	1:P:952:ARG:HH11	2.13	0.62
1:A:579:ASP:CG	1:A:583:ASN:HB2	2.20	0.62
1:B:360:HIS:CE1	1:B:361:PRO:HD2	2.34	0.62
1:B:701:VAL:HG12	1:B:702:GLN:N	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:740:LEU:HD13	1:D:749:ILE:CD1	2.30	0.62
1:G:701:VAL:HG12	1:G:702:GLN:N	2.15	0.62
1:G:745:MET:HA	1:G:745:MET:CE	2.29	0.62
1:H:6:SER:OG	1:H:9:VAL:HB	1.99	0.62
1:H:906:TYR:HB3	1:H:907:PRO:HD2	1.82	0.62
1:I:702:GLN:O	1:I:712:GLY:N	2.32	0.62
1:I:786:ARG:HH11	1:I:990:HIS:HE1	1.47	0.62
1:J:30:HIS:HB2	1:J:31:PRO:CD	2.30	0.62
1:J:580:GLU:CD	1:J:580:GLU:H	2.02	0.62
1:K:579:ASP:CG	1:K:583:ASN:HB2	2.20	0.62
1:K:701:VAL:HG12	1:K:702:GLN:N	2.15	0.62
1:L:579:ASP:CG	1:L:583:ASN:HB2	2.20	0.62
1:M:745:MET:CE	1:M:745:MET:HA	2.29	0.62
1:O:745:MET:CE	1:O:745:MET:HA	2.29	0.62
1:P:30:HIS:ND1	1:P:31:PRO:O	2.25	0.62
1:A:360:HIS:CE1	1:A:361:PRO:HD2	2.34	0.61
1:C:906:TYR:HB3	1:C:907:PRO:HD2	1.82	0.61
1:E:580:GLU:H	1:E:580:GLU:CD	2.02	0.61
1:G:254:LEU:C	1:G:255:ARG:HG2	2.20	0.61
1:H:473:ARG:O	1:H:473:ARG:HD3	2.00	0.61
1:I:54:LEU:HD23	1:I:54:LEU:N	2.12	0.61
1:J:906:TYR:HB3	1:J:907:PRO:HD2	1.82	0.61
1:K:436:MET:HE1	1:K:467:ASN:HD22	1.63	0.61
1:L:54:LEU:HD23	1:L:54:LEU:N	2.13	0.61
1:L:786:ARG:HH11	1:L:990:HIS:HE1	1.47	0.61
1:M:473:ARG:O	1:M:473:ARG:HD3	2.00	0.61
1:N:473:ARG:HD3	1:N:473:ARG:O	2.00	0.61
1:N:701:VAL:HG12	1:N:702:GLN:N	2.15	0.61
1:N:6:SER:OG	1:N:9:VAL:HB	1.99	0.61
1:P:740:LEU:HD13	1:P:749:ILE:CD1	2.30	0.61
1:A:30:HIS:HB2	1:A:31:PRO:CD	2.30	0.61
1:B:473:ARG:HD3	1:B:473:ARG:O	2.00	0.61
1:B:579:ASP:CG	1:B:583:ASN:HB2	2.20	0.61
1:C:30:HIS:HB2	1:C:31:PRO:CD	2.30	0.61
1:C:753:ASN:N	1:C:753:ASN:OD1	2.28	0.61
1:F:287:ASP:CG	1:G:425:ARG:HH22	2.04	0.61
1:F:473:ARG:HD3	1:F:473:ARG:O	2.00	0.61
1:F:701:VAL:HG12	1:F:702:GLN:N	2.15	0.61
1:F:6:SER:OG	1:F:9:VAL:HB	1.99	0.61
1:G:360:HIS:CE1	1:G:361:PRO:HD2	2.34	0.61
1:I:360:HIS:CE1	1:I:361:PRO:HD2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:579:ASP:OD1	1:I:583:ASN:N	2.29	0.61
1:J:1021:CME:HB3	1:J:1021:CME:CZ	2.08	0.61
1:J:473:ARG:HD3	1:J:473:ARG:O	2.00	0.61
1:J:745:MET:HA	1:J:745:MET:CE	2.29	0.61
1:K:30:HIS:HB2	1:K:31:PRO:CD	2.30	0.61
1:O:254:LEU:C	1:O:255:ARG:HG2	2.20	0.61
1:B:952:ARG:CB	1:B:952:ARG:HH11	2.13	0.61
1:D:701:VAL:HG12	1:D:702:GLN:N	2.15	0.61
1:E:117:GLU:OE1	1:E:117:GLU:N	2.27	0.61
1:E:30:HIS:HB2	1:E:31:PRO:CD	2.30	0.61
1:E:3:ILE:HG13	1:E:4:THR:N	2.07	0.61
1:H:952:ARG:HH11	1:H:952:ARG:CB	2.13	0.61
1:J:702:GLN:O	1:J:712:GLY:N	2.32	0.61
1:M:254:LEU:C	1:M:255:ARG:HG2	2.20	0.61
1:M:952:ARG:CB	1:M:952:ARG:HH11	2.13	0.61
1:O:30:HIS:HB2	1:O:31:PRO:CD	2.30	0.61
1:A:473:ARG:O	1:A:473:ARG:HD3	2.00	0.61
1:A:580:GLU:H	1:A:580:GLU:CD	2.02	0.61
1:D:360:HIS:CE1	1:D:361:PRO:HD2	2.34	0.61
1:F:1021:CME:CZ	1:F:1021:CME:HB3	2.08	0.61
1:F:786:ARG:HH11	1:F:990:HIS:CE1	2.17	0.61
1:G:30:HIS:HB2	1:G:31:PRO:CD	2.30	0.61
1:G:651:LEU:CD1	1:G:669:PRO:HA	2.29	0.61
1:J:254:LEU:C	1:J:255:ARG:HG2	2.20	0.61
1:J:579:ASP:CG	1:J:583:ASN:HB2	2.20	0.61
1:J:6:SER:OG	1:J:9:VAL:HB	1.99	0.61
1:J:746:ASP:HA	1:J:760:ARG:CG	2.30	0.61
1:K:420:MET:HE3	1:K:420:MET:HA	1.82	0.61
1:L:701:VAL:HG12	1:L:702:GLN:N	2.15	0.61
1:M:786:ARG:HH11	1:M:990:HIS:HE1	1.47	0.61
1:N:30:HIS:HB2	1:N:31:PRO:CD	2.29	0.61
1:N:423:MET:HB2	1:O:282:ARG:HG3	1.82	0.61
1:O:702:GLN:O	1:O:712:GLY:N	2.32	0.61
1:B:745:MET:HA	1:B:745:MET:CE	2.29	0.61
1:B:786:ARG:HH11	1:B:990:HIS:HE1	1.47	0.61
1:C:254:LEU:C	1:C:255:ARG:HG2	2.20	0.61
1:D:254:LEU:C	1:D:255:ARG:HG2	2.20	0.61
1:D:30:HIS:HB2	1:D:31:PRO:CD	2.30	0.61
1:G:579:ASP:CG	1:G:583:ASN:HB2	2.20	0.61
1:I:434:PRO:HB3	1:L:434:PRO:HB3	1.82	0.61
1:I:579:ASP:CG	1:I:583:ASN:HB2	2.20	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:668:VAL:CG1	1:I:669:PRO:HD2	2.31	0.61
1:I:740:LEU:HD13	1:I:749:ILE:CD1	2.30	0.61
1:J:30:HIS:ND1	1:J:31:PRO:O	2.25	0.61
1:K:740:LEU:HD13	1:K:749:ILE:CD1	2.30	0.61
1:N:668:VAL:CG1	1:N:669:PRO:HD2	2.31	0.61
1:N:745:MET:CE	1:N:745:MET:HA	2.29	0.61
1:O:767:GLN:HG3	1:O:768:MET:N	2.16	0.61
1:P:1020:TRP:HD1	1:P:1021:CME:N	1.99	0.61
1:P:30:HIS:HB2	1:P:31:PRO:CD	2.30	0.61
1:P:906:TYR:HB3	1:P:907:PRO:HD2	1.82	0.61
1:A:125:LEU:HG	1:A:126:THR:N	2.16	0.61
1:B:906:TYR:HB3	1:B:907:PRO:HD2	1.82	0.61
1:C:952:ARG:HH11	1:C:952:ARG:CB	2.13	0.61
1:E:702:GLN:O	1:E:712:GLY:N	2.32	0.61
1:G:702:GLN:O	1:G:712:GLY:N	2.32	0.61
1:H:254:LEU:C	1:H:255:ARG:HG2	2.20	0.61
1:I:125:LEU:HG	1:I:126:THR:N	2.16	0.61
1:I:30:HIS:HB2	1:I:31:PRO:CD	2.30	0.61
1:J:3:ILE:HG13	1:J:4:THR:N	2.07	0.61
1:K:54:LEU:HD23	1:K:54:LEU:N	2.13	0.61
1:L:254:LEU:C	1:L:255:ARG:HG2	2.20	0.61
1:L:30:HIS:HB2	1:L:31:PRO:CD	2.30	0.61
1:L:360:HIS:CE1	1:L:361:PRO:HD2	2.34	0.61
1:M:906:TYR:HB3	1:M:907:PRO:HD2	1.82	0.61
1:N:952:ARG:CB	1:N:952:ARG:HH11	2.13	0.61
1:O:579:ASP:CG	1:O:583:ASN:HB2	2.20	0.61
1:O:701:VAL:HG12	1:O:702:GLN:N	2.15	0.61
1:P:663:LEU:HD23	1:P:663:LEU:N	2.13	0.61
1:B:1011:ALA:HB3	1:B:1014:TYR:CZ	2.36	0.61
1:E:473:ARG:HD3	1:E:473:ARG:O	2.00	0.61
1:G:767:GLN:HG3	1:G:768:MET:N	2.16	0.61
1:H:579:ASP:CG	1:H:583:ASN:HB2	2.20	0.61
1:H:701:VAL:HG12	1:H:702:GLN:N	2.14	0.61
1:I:743:SER:OG	1:I:744:GLU:N	2.34	0.61
1:J:1011:ALA:HB3	1:J:1014:TYR:CZ	2.36	0.61
1:J:54:LEU:HD23	1:J:54:LEU:N	2.13	0.61
1:K:1011:ALA:HB3	1:K:1014:TYR:CZ	2.36	0.61
1:K:906:TYR:HB3	1:K:907:PRO:HD2	1.82	0.61
1:L:1021:CME:CZ	1:L:1021:CME:HB3	2.08	0.61
1:L:473:ARG:HD3	1:L:473:ARG:O	2.00	0.61
1:M:702:GLN:O	1:M:712:GLY:N	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:786:ARG:HH11	1:N:990:HIS:CE1	2.18	0.61
1:D:767:GLN:HG3	1:D:768:MET:N	2.16	0.61
1:F:952:ARG:CB	1:F:952:ARG:HH11	2.13	0.61
1:G:473:ARG:HD3	1:G:473:ARG:O	2.00	0.61
1:H:1020:TRP:HD1	1:H:1021:CME:N	1.99	0.61
1:H:316:HIS:CA	1:H:323:ILE:HD13	2.30	0.61
1:I:952:ARG:CB	1:I:952:ARG:HH11	2.13	0.61
1:K:945:ASN:OD1	1:K:950:GLN:NE2	2.25	0.61
1:P:1011:ALA:HB3	1:P:1014:TYR:CZ	2.36	0.61
1:D:473:ARG:HD3	1:D:473:ARG:O	2.00	0.61
1:D:54:LEU:N	1:D:54:LEU:HD23	2.12	0.61
1:D:579:ASP:CG	1:D:583:ASN:HB2	2.20	0.61
1:E:30:HIS:ND1	1:E:31:PRO:O	2.25	0.61
1:E:578:TYR:HA	1:E:583:ASN:O	2.01	0.61
1:F:786:ARG:HH11	1:F:990:HIS:HE1	1.47	0.61
1:G:125:LEU:HG	1:G:126:THR:N	2.16	0.61
1:K:952:ARG:CB	1:K:952:ARG:HH11	2.13	0.61
1:L:767:GLN:HG3	1:L:768:MET:N	2.16	0.61
1:M:1020:TRP:HD1	1:M:1021:CME:N	1.99	0.61
1:P:427:THR:HA	1:P:436:MET:HE2	1.82	0.61
1:C:579:ASP:CG	1:C:583:ASN:HB2	2.20	0.61
1:C:786:ARG:HH11	1:C:990:HIS:HE1	1.47	0.61
1:E:1011:ALA:HB3	1:E:1014:TYR:CZ	2.36	0.61
1:E:1020:TRP:HD1	1:E:1021:CME:N	1.99	0.61
1:E:906:TYR:HB3	1:E:907:PRO:HD2	1.82	0.61
1:F:568:TRP:CH2	2:F:2001:2FG:H3	2.36	0.61
1:G:1020:TRP:HD1	1:G:1021:CME:N	1.99	0.61
1:G:906:TYR:HB3	1:G:907:PRO:HD2	1.82	0.61
1:H:30:HIS:ND1	1:H:31:PRO:O	2.25	0.61
1:I:767:GLN:HG3	1:I:768:MET:N	2.16	0.61
1:J:125:LEU:HG	1:J:126:THR:N	2.16	0.61
1:J:663:LEU:HD23	1:J:663:LEU:N	2.13	0.61
1:L:745:MET:HA	1:L:745:MET:HE2	1.81	0.61
1:M:117:GLU:OE1	1:M:117:GLU:N	2.27	0.61
1:M:580:GLU:CD	1:M:580:GLU:H	2.03	0.61
1:N:125:LEU:HG	1:N:126:THR:N	2.16	0.61
1:N:568:TRP:CH2	2:N:2001:2FG:H3	2.36	0.61
1:N:702:GLN:O	1:N:712:GLY:N	2.32	0.61
1:P:578:TYR:HA	1:P:583:ASN:O	2.01	0.61
1:C:88:SER:HA	1:C:366:VAL:HG21	1.83	0.60
1:C:568:TRP:CH2	2:C:2001:2FG:H3	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:701:VAL:HG12	1:C:702:GLN:N	2.15	0.60
1:D:786:ARG:HH11	1:D:990:HIS:HE1	1.47	0.60
1:E:568:TRP:CH2	2:E:2001:2FG:H3	2.36	0.60
1:E:786:ARG:HH11	1:E:990:HIS:HE1	1.47	0.60
1:F:1020:TRP:HD1	1:F:1021:CME:N	1.99	0.60
1:F:753:ASN:OD1	1:F:753:ASN:N	2.28	0.60
1:G:743:SER:OG	1:G:744:GLU:N	2.34	0.60
1:H:1011:ALA:HB3	1:H:1014:TYR:CZ	2.36	0.60
1:H:125:LEU:HG	1:H:126:THR:N	2.16	0.60
1:J:568:TRP:CH2	2:J:2001:2FG:H3	2.36	0.60
1:J:767:GLN:HG3	1:J:768:MET:N	2.16	0.60
1:J:88:SER:HA	1:J:366:VAL:HG21	1.83	0.60
1:L:906:TYR:HB3	1:L:907:PRO:HD2	1.82	0.60
1:M:568:TRP:CH2	2:M:2001:2FG:H3	2.36	0.60
1:N:578:TYR:HA	1:N:583:ASN:O	2.01	0.60
1:N:786:ARG:HH11	1:N:990:HIS:HE1	1.47	0.60
1:O:1020:TRP:HD1	1:O:1021:CME:N	1.99	0.60
1:P:579:ASP:CG	1:P:583:ASN:HB2	2.20	0.60
1:P:773:LYS:HB2	1:P:773:LYS:HZ3	1.65	0.60
1:A:88:SER:HA	1:A:366:VAL:HG21	1.83	0.60
1:A:420:MET:HA	1:A:420:MET:HE3	1.83	0.60
1:C:578:TYR:HA	1:C:583:ASN:O	2.01	0.60
1:D:578:TYR:HA	1:D:583:ASN:O	2.01	0.60
1:E:254:LEU:C	1:E:255:ARG:HG2	2.20	0.60
1:F:1011:ALA:HB3	1:F:1014:TYR:CZ	2.36	0.60
1:F:702:GLN:O	1:F:712:GLY:N	2.32	0.60
1:I:30:HIS:ND1	1:I:31:PRO:O	2.25	0.60
1:M:1011:ALA:HB3	1:M:1014:TYR:CZ	2.36	0.60
1:O:906:TYR:HB3	1:O:907:PRO:HD2	1.82	0.60
1:P:436:MET:HE1	1:P:467:ASN:HD22	1.66	0.60
1:A:1011:ALA:HB3	1:A:1014:TYR:CZ	2.36	0.60
1:A:579:ASP:OD1	1:A:583:ASN:N	2.29	0.60
1:A:753:ASN:OD1	1:A:753:ASN:N	2.28	0.60
1:A:786:ARG:HH11	1:A:990:HIS:HE1	1.47	0.60
1:D:580:GLU:CD	1:D:580:GLU:H	2.03	0.60
1:G:578:TYR:HA	1:G:583:ASN:O	2.01	0.60
1:G:88:SER:HA	1:G:366:VAL:HG21	1.83	0.60
1:H:668:VAL:CG1	1:H:669:PRO:HD2	2.30	0.60
1:I:502:MET:HB2	1:I:537:GLU:HB2	1.83	0.60
1:J:952:ARG:HH11	1:J:952:ARG:CB	2.13	0.60
1:L:743:SER:OG	1:L:744:GLU:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:579:ASP:OD1	1:M:583:ASN:N	2.29	0.60
1:N:580:GLU:H	1:N:580:GLU:CD	2.03	0.60
1:O:568:TRP:CH2	2:O:2001:2FG:H3	2.36	0.60
1:O:88:SER:HA	1:O:366:VAL:HG21	1.83	0.60
1:P:786:ARG:HH11	1:P:990:HIS:HE1	1.47	0.60
1:A:502:MET:HB2	1:A:537:GLU:HB2	1.83	0.60
1:A:54:LEU:HD23	1:A:54:LEU:N	2.13	0.60
1:A:767:GLN:HG3	1:A:768:MET:N	2.16	0.60
1:C:1011:ALA:HB3	1:C:1014:TYR:CZ	2.36	0.60
1:D:1020:TRP:HD1	1:D:1021:CME:N	1.99	0.60
1:G:568:TRP:CH2	2:G:2001:2FG:H3	2.36	0.60
1:H:502:MET:HB2	1:H:537:GLU:HB2	1.83	0.60
1:I:1020:TRP:HD1	1:I:1021:CME:N	1.99	0.60
1:I:578:TYR:HA	1:I:583:ASN:O	2.01	0.60
1:K:773:LYS:HB2	1:K:773:LYS:HZ1	1.66	0.60
1:L:88:SER:HA	1:L:366:VAL:HG21	1.83	0.60
1:O:578:TYR:HA	1:O:583:ASN:O	2.01	0.60
1:P:420:MET:HA	1:P:420:MET:HE3	1.83	0.60
1:A:568:TRP:CH2	2:A:2001:2FG:H3	2.36	0.60
1:B:1020:TRP:HD1	1:B:1021:CME:N	1.99	0.60
1:D:568:TRP:CH2	2:D:2001:2FG:H3	2.36	0.60
1:D:668:VAL:CG1	1:D:669:PRO:HD2	2.31	0.60
1:F:580:GLU:CD	1:F:580:GLU:H	2.03	0.60
1:I:1021:CME:CZ	1:I:1021:CME:HB3	2.08	0.60
1:I:906:TYR:HB3	1:I:907:PRO:HD2	1.82	0.60
1:L:1020:TRP:HD1	1:L:1021:CME:N	1.99	0.60
1:L:578:TYR:HA	1:L:583:ASN:O	2.01	0.60
1:N:743:SER:OG	1:N:744:GLU:N	2.34	0.60
1:O:502:MET:HB2	1:O:537:GLU:HB2	1.84	0.60
1:A:114:VAL:CG1	1:A:191:TRP:HB2	2.32	0.60
1:A:255:ARG:HG2	1:A:255:ARG:HH11	1.67	0.60
1:B:767:GLN:HG3	1:B:768:MET:N	2.16	0.60
1:D:232:ASN:ND2	1:D:237:ARG:HB3	2.17	0.60
1:E:502:MET:HB2	1:E:537:GLU:HB2	1.84	0.60
1:E:63:PHE:CB	1:E:64:PRO:HD2	2.25	0.60
1:E:767:GLN:HG3	1:E:768:MET:N	2.16	0.60
1:G:232:ASN:ND2	1:G:237:ARG:HB3	2.17	0.60
1:G:502:MET:HB2	1:G:537:GLU:HB2	1.84	0.60
1:H:114:VAL:CG1	1:H:191:TRP:HB2	2.32	0.60
1:H:232:ASN:ND2	1:H:237:ARG:HB3	2.17	0.60
1:H:568:TRP:CH2	2:H:2001:2FG:H3	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:580:GLU:CD	1:H:580:GLU:H	2.03	0.60
1:J:255:ARG:HG2	1:J:255:ARG:HH11	1.67	0.60
1:K:1020:TRP:HD1	1:K:1021:CME:N	1.99	0.60
1:K:578:TYR:HA	1:K:583:ASN:O	2.01	0.60
1:M:114:VAL:CG1	1:M:191:TRP:HB2	2.32	0.60
1:M:316:HIS:CA	1:M:323:ILE:HD13	2.30	0.60
1:M:436:MET:HE1	1:M:467:ASN:HD22	1.65	0.60
1:M:767:GLN:HG3	1:M:768:MET:N	2.16	0.60
1:O:232:ASN:ND2	1:O:237:ARG:HB3	2.17	0.60
1:P:232:ASN:ND2	1:P:237:ARG:HB3	2.17	0.60
1:P:502:MET:HB2	1:P:537:GLU:HB2	1.84	0.60
1:B:568:TRP:CH2	2:B:2001:2FG:H3	2.36	0.60
1:B:254:LEU:C	1:B:255:ARG:HG2	2.20	0.60
1:B:580:GLU:CD	1:B:580:GLU:H	2.03	0.60
1:C:1020:TRP:HD1	1:C:1021:CME:N	1.99	0.60
1:C:255:ARG:HH11	1:C:255:ARG:HG2	1.67	0.60
1:H:786:ARG:HH11	1:H:990:HIS:HE1	1.47	0.60
1:I:255:ARG:HH11	1:I:255:ARG:HG2	1.67	0.60
1:J:1020:TRP:HD1	1:J:1021:CME:N	1.99	0.60
1:J:502:MET:HB2	1:J:537:GLU:HB2	1.84	0.60
1:K:255:ARG:HH11	1:K:255:ARG:HG2	1.67	0.60
1:K:568:TRP:CH2	2:K:2001:2FG:H3	2.36	0.60
1:L:436:MET:HE1	1:L:467:ASN:HD22	1.66	0.60
1:M:88:SER:HA	1:M:366:VAL:HG21	1.83	0.60
1:N:746:ASP:HA	1:N:760:ARG:CG	2.30	0.60
1:P:668:VAL:CG1	1:P:669:PRO:HD2	2.31	0.60
1:P:759:ASN:OD1	1:P:761:GLN:N	2.35	0.60
1:A:282:ARG:HD2	1:D:418:HIS:O	2.01	0.60
1:B:114:VAL:CG1	1:B:191:TRP:HB2	2.32	0.60
1:D:502:MET:HB2	1:D:537:GLU:HB2	1.84	0.60
1:E:746:ASP:HA	1:E:760:ARG:CG	2.30	0.60
1:F:232:ASN:ND2	1:F:237:ARG:HB3	2.17	0.60
1:I:114:VAL:CG1	1:I:191:TRP:HB2	2.32	0.60
1:K:3:ILE:HG13	1:K:4:THR:N	2.07	0.60
1:K:767:GLN:HG3	1:K:768:MET:N	2.16	0.60
1:L:1011:ALA:HB3	1:L:1014:TYR:CZ	2.36	0.60
1:L:749:ILE:HD13	1:L:749:ILE:N	2.17	0.60
1:M:502:MET:HB2	1:M:537:GLU:HB2	1.84	0.60
1:N:767:GLN:HG3	1:N:768:MET:N	2.16	0.60
1:O:1011:ALA:HB3	1:O:1014:TYR:CZ	2.36	0.60
1:O:114:VAL:CG1	1:O:191:TRP:HB2	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:743:SER:OG	1:A:744:GLU:N	2.34	0.60
1:C:1021:CME:HB3	1:C:1021:CME:CZ	2.08	0.60
1:D:1011:ALA:HB3	1:D:1014:TYR:CZ	2.36	0.60
1:F:125:LEU:HG	1:F:126:THR:N	2.16	0.60
1:G:114:VAL:CG1	1:G:191:TRP:HB2	2.32	0.60
1:G:786:ARG:HH11	1:G:990:HIS:HE1	1.47	0.60
1:H:420:MET:HE3	1:H:420:MET:HA	1.84	0.60
1:J:919:ASP:O	1:J:920:LEU:HD23	2.02	0.60
1:K:88:SER:HA	1:K:366:VAL:HG21	1.83	0.60
1:M:255:ARG:HG2	1:M:255:ARG:HH11	1.67	0.60
1:N:232:ASN:ND2	1:N:237:ARG:HB3	2.17	0.60
1:O:579:ASP:OD1	1:O:583:ASN:N	2.29	0.60
1:P:125:LEU:HG	1:P:126:THR:N	2.16	0.60
1:B:749:ILE:N	1:B:749:ILE:HD13	2.17	0.60
1:C:232:ASN:ND2	1:C:237:ARG:HB3	2.17	0.60
1:C:743:SER:OG	1:C:744:GLU:N	2.34	0.60
1:C:767:GLN:HG3	1:C:768:MET:N	2.16	0.60
1:D:255:ARG:HG2	1:D:255:ARG:HH11	1.67	0.60
1:D:420:MET:HA	1:D:420:MET:HE3	1.84	0.60
1:H:255:ARG:HG2	1:H:255:ARG:HH11	1.67	0.60
1:L:232:ASN:ND2	1:L:237:ARG:HB3	2.17	0.60
1:L:255:ARG:HH11	1:L:255:ARG:HG2	1.67	0.60
1:M:668:VAL:CG1	1:M:669:PRO:HD2	2.30	0.60
1:N:1011:ALA:HB3	1:N:1014:TYR:CZ	2.36	0.60
1:O:316:HIS:CA	1:O:323:ILE:HD13	2.30	0.60
1:O:743:SER:OG	1:O:744:GLU:N	2.34	0.60
1:O:786:ARG:HH11	1:O:990:HIS:HE1	1.47	0.60
1:P:568:TRP:CH2	2:P:2001:2FG:H3	2.36	0.60
1:P:702:GLN:O	1:P:712:GLY:N	2.32	0.60
1:C:125:LEU:HG	1:C:126:THR:N	2.16	0.59
1:D:125:LEU:HG	1:D:126:THR:N	2.16	0.59
1:D:427:THR:HA	1:D:436:MET:HE2	1.80	0.59
1:F:316:HIS:CA	1:F:323:ILE:HD13	2.30	0.59
1:F:88:SER:HA	1:F:366:VAL:HG21	1.83	0.59
1:I:232:ASN:ND2	1:I:237:ARG:HB3	2.17	0.59
1:J:749:ILE:N	1:J:749:ILE:HD13	2.17	0.59
1:O:125:LEU:HG	1:O:126:THR:N	2.16	0.59
1:O:746:ASP:HA	1:O:760:ARG:CG	2.30	0.59
1:A:1020:TRP:HD1	1:A:1021:CME:N	1.99	0.59
1:B:125:LEU:HG	1:B:126:THR:N	2.16	0.59
1:B:232:ASN:ND2	1:B:237:ARG:HB3	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:316:HIS:CA	1:B:323:ILE:HD13	2.30	0.59
1:B:579:ASP:OD1	1:B:583:ASN:N	2.29	0.59
1:C:663:LEU:HD23	1:C:663:LEU:N	2.13	0.59
1:C:84:VAL:HG12	1:C:85:VAL:N	2.17	0.59
1:D:88:SER:HA	1:D:366:VAL:HG21	1.83	0.59
1:D:753:ASN:OD1	1:D:753:ASN:N	2.28	0.59
1:E:88:SER:HA	1:E:366:VAL:HG21	1.83	0.59
1:F:578:TYR:HA	1:F:583:ASN:O	2.01	0.59
1:G:746:ASP:HA	1:G:760:ARG:CG	2.30	0.59
1:G:84:VAL:HG12	1:G:85:VAL:N	2.17	0.59
1:G:919:ASP:O	1:G:920:LEU:HD23	2.02	0.59
1:I:1011:ALA:HB3	1:I:1014:TYR:CZ	2.36	0.59
1:I:568:TRP:CH2	2:I:2001:2FG:H3	2.36	0.59
1:I:282:ARG:HD2	1:L:418:HIS:O	2.02	0.59
1:K:502:MET:HB2	1:K:537:GLU:HB2	1.84	0.59
1:K:743:SER:OG	1:K:744:GLU:N	2.34	0.59
1:L:316:HIS:CA	1:L:323:ILE:HD13	2.30	0.59
1:M:125:LEU:HG	1:M:126:THR:N	2.16	0.59
1:M:232:ASN:ND2	1:M:237:ARG:HB3	2.17	0.59
1:N:1020:TRP:HD1	1:N:1021:CME:N	1.99	0.59
1:N:88:SER:HA	1:N:366:VAL:HG21	1.83	0.59
1:O:919:ASP:O	1:O:920:LEU:HD23	2.02	0.59
1:P:743:SER:OG	1:P:744:GLU:N	2.34	0.59
1:A:578:TYR:HA	1:A:583:ASN:O	2.01	0.59
1:G:1011:ALA:HB3	1:G:1014:TYR:CZ	2.36	0.59
1:I:88:SER:HA	1:I:366:VAL:HG21	1.83	0.59
1:K:232:ASN:ND2	1:K:237:ARG:HB3	2.17	0.59
1:K:84:VAL:HG12	1:K:85:VAL:N	2.17	0.59
1:L:568:TRP:CH2	2:L:2001:2FG:H3	2.36	0.59
1:M:759:ASN:OD1	1:M:761:GLN:N	2.35	0.59
1:N:114:VAL:CG1	1:N:191:TRP:HB2	2.32	0.59
1:P:767:GLN:HG3	1:P:768:MET:N	2.16	0.59
1:A:232:ASN:ND2	1:A:237:ARG:HB3	2.17	0.59
1:A:423:MET:HB2	1:D:282:ARG:HG3	1.83	0.59
1:B:740:LEU:HD12	1:B:741:THR:H	1.67	0.59
1:E:232:ASN:ND2	1:E:237:ARG:HB3	2.17	0.59
1:E:743:SER:OG	1:E:744:GLU:N	2.34	0.59
1:F:759:ASN:OD1	1:F:761:GLN:N	2.35	0.59
1:F:919:ASP:O	1:F:920:LEU:HD23	2.02	0.59
1:I:316:HIS:CA	1:I:323:ILE:HD13	2.30	0.59
1:J:578:TYR:HA	1:J:583:ASN:O	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:702:GLN:O	1:K:712:GLY:N	2.32	0.59
1:L:740:LEU:HD12	1:L:741:THR:H	1.68	0.59
1:N:316:HIS:CA	1:N:323:ILE:HD13	2.30	0.59
1:A:702:GLN:O	1:A:712:GLY:N	2.32	0.59
1:A:740:LEU:HD12	1:A:741:THR:H	1.67	0.59
1:B:255:ARG:HH11	1:B:255:ARG:HG2	1.67	0.59
1:B:88:SER:HA	1:B:366:VAL:HG21	1.83	0.59
1:C:114:VAL:CG1	1:C:191:TRP:HB2	2.32	0.59
1:C:580:GLU:CD	1:C:580:GLU:H	2.02	0.59
1:D:743:SER:OG	1:D:744:GLU:N	2.34	0.59
1:D:906:TYR:HB3	1:D:907:PRO:HD2	1.82	0.59
1:F:767:GLN:HG3	1:F:768:MET:N	2.16	0.59
1:H:88:SER:HA	1:H:366:VAL:HG21	1.83	0.59
1:H:578:TYR:HA	1:H:583:ASN:O	2.01	0.59
1:J:114:VAL:CG1	1:J:191:TRP:HB2	2.32	0.59
1:J:232:ASN:ND2	1:J:237:ARG:HB3	2.17	0.59
1:K:114:VAL:CG1	1:K:191:TRP:HB2	2.32	0.59
1:K:668:VAL:CG1	1:K:669:PRO:HD2	2.31	0.59
1:M:740:LEU:HD12	1:M:741:THR:H	1.67	0.59
1:N:759:ASN:OD1	1:N:761:GLN:N	2.35	0.59
1:O:255:ARG:HG2	1:O:255:ARG:HH11	1.67	0.59
1:P:114:VAL:CG1	1:P:191:TRP:HB2	2.32	0.59
1:B:502:MET:HB2	1:B:537:GLU:HB2	1.83	0.59
1:B:702:GLN:O	1:B:712:GLY:N	2.32	0.59
1:B:743:SER:OG	1:B:744:GLU:N	2.34	0.59
1:A:418:HIS:O	1:D:282:ARG:CD	2.49	0.59
1:D:702:GLN:O	1:D:712:GLY:N	2.32	0.59
1:E:255:ARG:HG2	1:E:255:ARG:HH11	1.67	0.59
1:E:759:ASN:OD1	1:E:761:GLN:N	2.35	0.59
1:E:84:VAL:HG12	1:E:85:VAL:N	2.17	0.59
1:F:502:MET:HB2	1:F:537:GLU:HB2	1.83	0.59
1:F:581:ASN:OD1	1:F:581:ASN:N	2.35	0.59
1:F:743:SER:OG	1:F:744:GLU:N	2.34	0.59
1:G:255:ARG:HG2	1:G:255:ARG:HH11	1.67	0.59
1:G:316:HIS:CA	1:G:323:ILE:HD13	2.30	0.59
1:H:767:GLN:HG3	1:H:768:MET:N	2.16	0.59
1:J:37:ARG:NH2	1:J:218:PRO:HD3	2.18	0.59
1:K:37:ARG:NH2	1:K:218:PRO:HD3	2.18	0.59
1:L:114:VAL:CG1	1:L:191:TRP:HB2	2.32	0.59
1:L:581:ASN:OD1	1:L:581:ASN:N	2.36	0.59
1:M:578:TYR:HA	1:M:583:ASN:O	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:434:PRO:HB3	1:O:434:PRO:HB3	1.84	0.59
1:N:502:MET:HB2	1:N:537:GLU:HB2	1.83	0.59
1:N:919:ASP:O	1:N:920:LEU:HD23	2.02	0.59
1:O:740:LEU:HD12	1:O:741:THR:H	1.67	0.59
1:P:255:ARG:HH11	1:P:255:ARG:HG2	1.67	0.59
1:C:502:MET:HB2	1:C:537:GLU:HB2	1.84	0.59
1:D:579:ASP:OD1	1:D:583:ASN:HB2	2.03	0.59
1:E:114:VAL:CG1	1:E:191:TRP:HB2	2.32	0.59
1:E:125:LEU:HG	1:E:126:THR:N	2.16	0.59
1:F:255:ARG:HH11	1:F:255:ARG:HG2	1.67	0.59
1:G:638:VAL:O	1:G:677:LYS:HA	2.03	0.59
1:H:740:LEU:HD12	1:H:741:THR:H	1.67	0.59
1:I:919:ASP:O	1:I:920:LEU:HD23	2.02	0.59
1:J:581:ASN:N	1:J:581:ASN:OD1	2.36	0.59
1:L:125:LEU:HG	1:L:126:THR:N	2.16	0.59
1:M:743:SER:OG	1:M:744:GLU:N	2.34	0.59
1:A:638:VAL:O	1:A:677:LYS:HA	2.03	0.59
1:B:578:TYR:HA	1:B:583:ASN:O	2.01	0.59
1:B:638:VAL:O	1:B:677:LYS:HA	2.03	0.59
1:E:638:VAL:O	1:E:677:LYS:HA	2.03	0.59
1:F:420:MET:HE3	1:F:420:MET:HA	1.84	0.59
1:G:579:ASP:OD1	1:G:583:ASN:N	2.29	0.59
1:H:759:ASN:OD1	1:H:761:GLN:N	2.35	0.59
1:J:743:SER:OG	1:J:744:GLU:N	2.34	0.59
1:J:759:ASN:OD1	1:J:761:GLN:N	2.35	0.59
1:L:37:ARG:NH2	1:L:218:PRO:HD3	2.18	0.59
1:L:420:MET:HE3	1:L:420:MET:HA	1.84	0.59
1:L:502:MET:HB2	1:L:537:GLU:HB2	1.83	0.59
1:N:638:VAL:O	1:N:677:LYS:HA	2.03	0.59
1:O:178:ARG:CB	1:O:178:ARG:HH11	2.16	0.59
1:P:37:ARG:NH2	1:P:218:PRO:HD3	2.18	0.59
1:P:740:LEU:HD12	1:P:741:THR:H	1.67	0.59
1:C:919:ASP:O	1:C:920:LEU:HD23	2.02	0.59
1:D:740:LEU:HD12	1:D:741:THR:H	1.68	0.59
1:E:178:ARG:CB	1:E:178:ARG:HH11	2.16	0.59
1:I:37:ARG:NH2	1:I:218:PRO:HD3	2.18	0.59
1:I:579:ASP:OD1	1:I:583:ASN:HB2	2.03	0.59
1:J:425:ARG:NH2	1:K:287:ASP:OD2	2.36	0.59
1:L:746:ASP:HA	1:L:760:ARG:CG	2.30	0.59
1:M:37:ARG:NH2	1:M:218:PRO:HD3	2.18	0.59
1:N:37:ARG:NH2	1:N:218:PRO:HD3	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:255:ARG:HG2	1:N:255:ARG:HH11	1.67	0.59
1:C:749:ILE:HD13	1:C:749:ILE:N	2.17	0.59
1:C:773:LYS:HZ3	1:C:773:LYS:HB2	1.68	0.59
1:D:178:ARG:HH11	1:D:178:ARG:CB	2.16	0.59
1:E:740:LEU:HD12	1:E:741:THR:H	1.67	0.59
1:F:37:ARG:NH2	1:F:218:PRO:HD3	2.18	0.59
1:F:668:VAL:CG1	1:F:669:PRO:HD2	2.31	0.59
1:F:84:VAL:HG12	1:F:85:VAL:N	2.17	0.59
1:I:638:VAL:O	1:I:677:LYS:HA	2.03	0.59
1:J:753:ASN:N	1:J:753:ASN:OD1	2.28	0.59
1:O:579:ASP:OD1	1:O:583:ASN:HB2	2.03	0.59
1:P:178:ARG:CB	1:P:178:ARG:HH11	2.16	0.59
1:A:749:ILE:N	1:A:749:ILE:HD13	2.17	0.58
1:B:493:THR:HG23	5:B:2113:HOH:O	2.03	0.58
1:D:114:VAL:CG1	1:D:191:TRP:HB2	2.32	0.58
1:D:429:ASP:OD1	1:D:430:PRO:HD2	2.03	0.58
1:D:746:ASP:HA	1:D:760:ARG:CG	2.30	0.58
1:D:84:VAL:HG12	1:D:85:VAL:N	2.17	0.58
1:G:1021:CME:HB3	1:G:1021:CME:CZ	2.08	0.58
1:J:178:ARG:CB	1:J:178:ARG:HH11	2.16	0.58
1:J:493:THR:HG23	5:J:2113:HOH:O	2.03	0.58
1:K:919:ASP:O	1:K:920:LEU:HD23	2.02	0.58
1:P:919:ASP:O	1:P:920:LEU:HD23	2.02	0.58
1:A:278:ILE:H	1:A:278:ILE:CD1	2.16	0.58
1:A:37:ARG:NH2	1:A:218:PRO:HD3	2.18	0.58
1:A:579:ASP:OD1	1:A:583:ASN:HB2	2.03	0.58
1:A:581:ASN:OD1	1:A:581:ASN:N	2.36	0.58
1:C:759:ASN:OD1	1:C:761:GLN:N	2.35	0.58
1:F:114:VAL:CG1	1:F:191:TRP:HB2	2.32	0.58
1:G:580:GLU:H	1:G:580:GLU:CD	2.03	0.58
1:G:740:LEU:HD12	1:G:741:THR:H	1.68	0.58
1:H:84:VAL:HG12	1:H:85:VAL:N	2.17	0.58
1:L:278:ILE:CD1	1:L:278:ILE:H	2.16	0.58
1:L:579:ASP:OD1	1:L:583:ASN:HB2	2.03	0.58
1:M:493:THR:HG23	5:M:2113:HOH:O	2.03	0.58
1:O:580:GLU:H	1:O:580:GLU:CD	2.02	0.58
1:P:749:ILE:HD13	1:P:749:ILE:N	2.17	0.58
1:A:63:PHE:CB	1:A:64:PRO:HD2	2.25	0.58
1:B:37:ARG:NH2	1:B:218:PRO:HD3	2.18	0.58
1:B:668:VAL:CG1	1:B:669:PRO:HD2	2.31	0.58
1:C:581:ASN:N	1:C:581:ASN:OD1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:638:VAL:O	1:C:677:LYS:HA	2.03	0.58
1:D:638:VAL:O	1:D:677:LYS:HA	2.03	0.58
1:D:919:ASP:O	1:D:920:LEU:HD23	2.02	0.58
1:E:919:ASP:O	1:E:920:LEU:HD23	2.02	0.58
1:F:429:ASP:OD1	1:F:430:PRO:HD2	2.04	0.58
1:F:579:ASP:OD1	1:F:583:ASN:HB2	2.03	0.58
1:H:37:ARG:NH2	1:H:218:PRO:HD3	2.18	0.58
1:H:743:SER:OG	1:H:744:GLU:N	2.34	0.58
1:H:919:ASP:O	1:H:920:LEU:HD23	2.02	0.58
1:I:581:ASN:N	1:I:581:ASN:OD1	2.36	0.58
1:M:84:VAL:HG12	1:M:85:VAL:N	2.17	0.58
1:P:88:SER:HA	1:P:366:VAL:HG21	1.83	0.58
1:B:759:ASN:OD1	1:B:761:GLN:N	2.35	0.58
1:B:84:VAL:HG12	1:B:85:VAL:N	2.17	0.58
1:C:740:LEU:HD12	1:C:741:THR:H	1.68	0.58
1:E:420:MET:HE3	1:E:420:MET:HA	1.85	0.58
1:F:178:ARG:CB	1:F:178:ARG:HH11	2.16	0.58
1:H:579:ASP:OD1	1:H:583:ASN:N	2.29	0.58
1:H:702:GLN:O	1:H:712:GLY:N	2.32	0.58
1:I:580:GLU:CD	1:I:580:GLU:H	2.02	0.58
1:J:740:LEU:HD12	1:J:741:THR:H	1.67	0.58
1:K:125:LEU:HG	1:K:126:THR:N	2.16	0.58
1:K:546:LEU:HA	5:K:2172:HOH:O	2.04	0.58
1:K:638:VAL:O	1:K:677:LYS:HA	2.03	0.58
1:M:278:ILE:CD1	1:M:278:ILE:H	2.16	0.58
1:M:546:LEU:HA	5:M:2172:HOH:O	2.03	0.58
1:P:429:ASP:OD1	1:P:430:PRO:HD2	2.03	0.58
1:B:919:ASP:O	1:B:920:LEU:HD23	2.02	0.58
1:C:130:ASP:OD2	1:C:132:SER:HB3	2.04	0.58
1:E:278:ILE:CD1	1:E:278:ILE:H	2.16	0.58
1:E:579:ASP:OD1	1:E:583:ASN:HB2	2.03	0.58
1:F:638:VAL:O	1:F:677:LYS:HA	2.03	0.58
1:G:178:ARG:HH11	1:G:178:ARG:CB	2.16	0.58
1:G:493:THR:HG23	5:G:2113:HOH:O	2.03	0.58
1:H:638:VAL:O	1:H:677:LYS:HA	2.03	0.58
1:I:278:ILE:H	1:I:278:ILE:CD1	2.16	0.58
1:I:493:THR:HG23	5:I:2113:HOH:O	2.04	0.58
1:I:546:LEU:HA	5:I:2172:HOH:O	2.03	0.58
1:I:894:ARG:HD3	1:I:919:ASP:OD2	2.04	0.58
1:J:579:ASP:OD1	1:J:583:ASN:HB2	2.03	0.58
1:J:84:VAL:HG12	1:J:85:VAL:N	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:178:ARG:HH11	1:K:178:ARG:CB	2.16	0.58
1:K:740:LEU:HD12	1:K:741:THR:H	1.67	0.58
1:K:749:ILE:N	1:K:749:ILE:HD13	2.17	0.58
1:K:759:ASN:OD1	1:K:761:GLN:N	2.35	0.58
1:L:638:VAL:O	1:L:677:LYS:HA	2.03	0.58
1:M:429:ASP:OD1	1:M:430:PRO:HD2	2.03	0.58
1:O:493:THR:HG23	5:O:2114:HOH:O	2.03	0.58
1:O:581:ASN:N	1:O:581:ASN:OD1	2.36	0.58
1:O:894:ARG:HD3	1:O:919:ASP:OD2	2.04	0.58
1:A:178:ARG:HH11	1:A:178:ARG:CB	2.16	0.58
1:A:746:ASP:HA	1:A:760:ARG:CG	2.30	0.58
1:A:84:VAL:HG12	1:A:85:VAL:N	2.17	0.58
1:A:919:ASP:O	1:A:920:LEU:HD23	2.02	0.58
1:B:429:ASP:OD1	1:B:430:PRO:HD2	2.03	0.58
1:B:287:ASP:CG	1:C:425:ARG:HH22	2.07	0.58
1:C:429:ASP:OD1	1:C:430:PRO:HD2	2.03	0.58
1:D:749:ILE:N	1:D:749:ILE:HD13	2.17	0.58
1:H:178:ARG:CB	1:H:178:ARG:HH11	2.16	0.58
1:E:425:ARG:HH22	1:H:287:ASP:CG	2.07	0.58
1:I:420:MET:HE3	1:I:420:MET:HA	1.84	0.58
1:I:740:LEU:HD12	1:I:741:THR:H	1.67	0.58
1:J:638:VAL:O	1:J:677:LYS:HA	2.03	0.58
1:K:63:PHE:CB	1:K:64:PRO:HD2	2.25	0.58
1:L:429:ASP:OD1	1:L:430:PRO:HD2	2.03	0.58
1:P:638:VAL:O	1:P:677:LYS:HA	2.03	0.58
1:A:130:ASP:OD2	1:A:132:SER:HB3	2.04	0.58
1:A:316:HIS:HD2	1:A:317:THR:O	1.87	0.58
1:A:429:ASP:OD1	1:A:430:PRO:HD2	2.04	0.58
1:B:420:MET:HA	1:B:420:MET:HE3	1.85	0.58
1:C:37:ARG:NH2	1:C:218:PRO:HD3	2.18	0.58
1:D:581:ASN:OD1	1:D:581:ASN:N	2.36	0.58
1:D:759:ASN:OD1	1:D:761:GLN:N	2.35	0.58
1:E:429:ASP:OD1	1:E:430:PRO:HD2	2.03	0.58
1:F:493:THR:HG23	5:F:2113:HOH:O	2.03	0.58
1:G:316:HIS:HD2	1:G:317:THR:O	1.87	0.58
1:G:581:ASN:OD1	1:G:581:ASN:N	2.35	0.58
1:H:278:ILE:CD1	1:H:278:ILE:H	2.16	0.58
1:H:678:GLN:C	1:H:679:LEU:HD23	2.24	0.58
1:H:749:ILE:HD13	1:H:749:ILE:N	2.17	0.58
1:I:759:ASN:OD1	1:I:761:GLN:N	2.35	0.58
1:J:822:LEU:HD12	1:J:824:GLN:H	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:493:THR:HG23	5:K:2113:HOH:O	2.03	0.58
1:N:678:GLN:C	1:N:679:LEU:HD23	2.24	0.58
1:A:678:GLN:C	1:A:679:LEU:HD23	2.24	0.58
1:B:355:ASN:OD1	1:B:388:ARG:HD3	2.04	0.58
1:C:178:ARG:HH11	1:C:178:ARG:CB	2.16	0.58
1:C:894:ARG:HD3	1:C:919:ASP:OD2	2.04	0.58
1:D:37:ARG:NH2	1:D:218:PRO:HD3	2.18	0.58
1:D:493:THR:HG23	5:D:2113:HOH:O	2.04	0.58
1:E:678:GLN:C	1:E:679:LEU:HD23	2.24	0.58
1:F:678:GLN:C	1:F:679:LEU:HD23	2.24	0.58
1:G:546:LEU:HA	5:G:2172:HOH:O	2.03	0.58
1:H:579:ASP:OD1	1:H:583:ASN:HB2	2.03	0.58
1:J:316:HIS:HD2	1:J:317:THR:O	1.87	0.58
1:J:355:ASN:OD1	1:J:388:ARG:HD3	2.04	0.58
1:L:84:VAL:HG12	1:L:85:VAL:N	2.17	0.58
1:M:178:ARG:CB	1:M:178:ARG:HH11	2.16	0.58
1:M:678:GLN:C	1:M:679:LEU:HD23	2.24	0.58
1:M:822:LEU:HD12	1:M:824:GLN:H	1.69	0.58
1:N:579:ASP:OD1	1:N:583:ASN:HB2	2.03	0.58
1:O:1021:CME:HB3	1:O:1021:CME:CZ	2.08	0.58
1:O:130:ASP:OD2	1:O:132:SER:HB3	2.04	0.58
1:O:84:VAL:HG12	1:O:85:VAL:N	2.17	0.58
1:P:599:ARG:HH22	1:P:795:VAL:HG23	1.69	0.58
1:A:822:LEU:HD12	1:A:824:GLN:H	1.69	0.58
1:E:37:ARG:NH2	1:E:218:PRO:HD3	2.18	0.58
1:E:546:LEU:HA	5:E:2172:HOH:O	2.04	0.58
1:F:130:ASP:OD2	1:F:132:SER:HB3	2.04	0.58
1:H:355:ASN:OD1	1:H:388:ARG:HD3	2.04	0.58
1:I:130:ASP:OD2	1:I:132:SER:HB3	2.04	0.58
1:I:316:HIS:HD2	1:I:317:THR:O	1.87	0.58
1:I:429:ASP:OD1	1:I:430:PRO:HD2	2.03	0.58
1:I:678:GLN:C	1:I:679:LEU:HD23	2.24	0.58
1:J:130:ASP:OD2	1:J:132:SER:HB3	2.04	0.58
1:J:678:GLN:C	1:J:679:LEU:HD23	2.24	0.58
1:J:894:ARG:HD3	1:J:919:ASP:OD2	2.04	0.58
1:K:579:ASP:OD1	1:K:583:ASN:HB2	2.03	0.58
1:L:894:ARG:HD3	1:L:919:ASP:OD2	2.04	0.58
1:L:919:ASP:O	1:L:920:LEU:HD23	2.02	0.58
1:M:919:ASP:O	1:M:920:LEU:HD23	2.02	0.58
1:N:355:ASN:OD1	1:N:388:ARG:HD3	2.04	0.58
1:O:546:LEU:HA	5:O:2173:HOH:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:599:ARG:HH22	1:O:795:VAL:HG23	1.69	0.58
1:P:316:HIS:CA	1:P:323:ILE:HD13	2.30	0.58
1:P:678:GLN:C	1:P:679:LEU:HD23	2.24	0.58
1:P:84:VAL:HG12	1:P:85:VAL:N	2.17	0.58
1:A:546:LEU:HA	5:A:2172:HOH:O	2.04	0.58
1:B:178:ARG:HH11	1:B:178:ARG:CB	2.16	0.58
1:B:316:HIS:HD2	1:B:317:THR:O	1.87	0.58
1:B:678:GLN:C	1:B:679:LEU:HD23	2.24	0.58
1:E:1021:CME:HB3	1:E:1021:CME:CZ	2.08	0.58
1:E:822:LEU:HD12	1:E:824:GLN:H	1.69	0.58
1:F:30:HIS:ND1	1:F:31:PRO:O	2.25	0.58
1:G:37:ARG:NH2	1:G:218:PRO:HD3	2.18	0.58
1:G:668:VAL:CG1	1:G:669:PRO:HD2	2.30	0.58
1:G:678:GLN:C	1:G:679:LEU:HD23	2.24	0.58
1:H:599:ARG:HH22	1:H:795:VAL:HG23	1.69	0.58
1:I:599:ARG:HH22	1:I:795:VAL:HG23	1.69	0.58
1:K:580:GLU:H	1:K:580:GLU:CD	2.02	0.58
1:M:355:ASN:OD1	1:M:388:ARG:HD3	2.04	0.58
1:M:638:VAL:O	1:M:677:LYS:HA	2.03	0.58
1:O:638:VAL:O	1:O:677:LYS:HA	2.03	0.58
1:O:678:GLN:C	1:O:679:LEU:HD23	2.24	0.58
1:P:579:ASP:OD1	1:P:583:ASN:HB2	2.03	0.58
1:P:894:ARG:HD3	1:P:919:ASP:OD2	2.04	0.58
1:A:30:HIS:ND1	1:A:31:PRO:O	2.25	0.57
1:B:696:LEU:HD12	1:B:697:THR:H	1.69	0.57
1:C:678:GLN:C	1:C:679:LEU:HD23	2.24	0.57
1:D:278:ILE:H	1:D:278:ILE:CD1	2.16	0.57
1:F:465:GLY:O	1:F:468:HIS:HB2	2.04	0.57
1:F:740:LEU:HD12	1:F:741:THR:H	1.67	0.57
1:G:599:ARG:HH22	1:G:795:VAL:HG23	1.69	0.57
1:I:423:MET:HB2	1:L:282:ARG:HG3	1.84	0.57
1:I:746:ASP:HA	1:I:760:ARG:CG	2.30	0.57
1:K:696:LEU:HD12	1:K:697:THR:H	1.69	0.57
1:L:178:ARG:HH11	1:L:178:ARG:CB	2.16	0.57
1:L:355:ASN:OD1	1:L:388:ARG:HD3	2.04	0.57
1:L:427:THR:HA	1:L:436:MET:HE2	1.82	0.57
1:L:546:LEU:HA	5:L:2172:HOH:O	2.03	0.57
1:L:65:ALA:CB	1:L:66:PRO:HD2	2.33	0.57
1:M:465:GLY:O	1:M:468:HIS:HB2	2.04	0.57
1:N:130:ASP:OD2	1:N:132:SER:HB3	2.04	0.57
1:N:581:ASN:N	1:N:581:ASN:OD1	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:740:LEU:HD12	1:N:741:THR:H	1.67	0.57
1:P:493:THR:HG23	5:P:2116:HOH:O	2.03	0.57
1:B:546:LEU:HA	5:B:2172:HOH:O	2.03	0.57
1:B:746:ASP:HA	1:B:760:ARG:CG	2.30	0.57
1:F:599:ARG:HH22	1:F:795:VAL:HG23	1.69	0.57
1:G:278:ILE:H	1:G:278:ILE:CD1	2.16	0.57
1:G:579:ASP:OD1	1:G:583:ASN:HB2	2.03	0.57
1:H:822:LEU:HD12	1:H:824:GLN:H	1.69	0.57
1:I:465:GLY:O	1:I:468:HIS:HB2	2.04	0.57
1:J:287:ASP:CG	1:K:425:ARG:HH22	2.08	0.57
1:K:581:ASN:OD1	1:K:581:ASN:N	2.36	0.57
1:M:285:TYR:CB	1:M:288:ARG:HG3	2.34	0.57
1:M:599:ARG:HH22	1:M:795:VAL:HG23	1.69	0.57
1:N:749:ILE:N	1:N:749:ILE:HD13	2.17	0.57
1:N:894:ARG:HD3	1:N:919:ASP:OD2	2.04	0.57
1:O:668:VAL:CG1	1:O:669:PRO:HD2	2.31	0.57
1:O:749:ILE:HD13	1:O:749:ILE:N	2.17	0.57
1:P:130:ASP:OD2	1:P:132:SER:HB3	2.04	0.57
1:A:355:ASN:OD1	1:A:388:ARG:HD3	2.04	0.57
1:A:759:ASN:OD1	1:A:761:GLN:N	2.35	0.57
1:B:130:ASP:OD2	1:B:132:SER:HB3	2.04	0.57
1:C:355:ASN:OD1	1:C:388:ARG:HD3	2.04	0.57
1:C:493:THR:HG23	5:C:2113:HOH:O	2.04	0.57
1:D:323:ILE:N	1:D:323:ILE:HD12	2.20	0.57
1:G:429:ASP:OD1	1:G:430:PRO:HD2	2.04	0.57
1:G:749:ILE:HD13	1:G:749:ILE:N	2.17	0.57
1:G:759:ASN:OD1	1:G:761:GLN:N	2.35	0.57
1:H:130:ASP:OD2	1:H:132:SER:HB3	2.04	0.57
1:H:429:ASP:OD1	1:H:430:PRO:HD2	2.03	0.57
1:J:429:ASP:OD1	1:J:430:PRO:HD2	2.04	0.57
1:K:465:GLY:O	1:K:468:HIS:HB2	2.04	0.57
1:K:894:ARG:HD3	1:K:919:ASP:OD2	2.04	0.57
1:O:316:HIS:HD2	1:O:317:THR:O	1.87	0.57
1:O:37:ARG:NH2	1:O:218:PRO:HD3	2.18	0.57
1:O:759:ASN:OD1	1:O:761:GLN:N	2.35	0.57
1:B:581:ASN:OD1	1:B:581:ASN:N	2.36	0.57
1:B:579:ASP:OD1	1:B:583:ASN:HB2	2.03	0.57
1:C:668:VAL:CG1	1:C:669:PRO:HD2	2.31	0.57
1:D:1021:CME:CZ	1:D:1021:CME:HB3	2.08	0.57
1:D:822:LEU:HD12	1:D:824:GLN:H	1.69	0.57
1:E:316:HIS:HD2	1:E:317:THR:O	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:77:ASP:C	1:E:78:LEU:HD23	2.25	0.57
1:F:749:ILE:N	1:F:749:ILE:HD13	2.17	0.57
1:G:465:GLY:O	1:G:468:HIS:HB2	2.04	0.57
1:H:316:HIS:HD2	1:H:317:THR:O	1.87	0.57
1:I:63:PHE:CB	1:I:64:PRO:HD2	2.25	0.57
1:L:130:ASP:OD2	1:L:132:SER:HB3	2.04	0.57
1:L:465:GLY:O	1:L:468:HIS:HB2	2.04	0.57
1:L:493:THR:HG23	5:L:2113:HOH:O	2.03	0.57
1:L:77:ASP:C	1:L:78:LEU:HD23	2.25	0.57
1:N:178:ARG:HH11	1:N:178:ARG:CB	2.16	0.57
1:N:316:HIS:HD2	1:N:317:THR:O	1.87	0.57
1:O:465:GLY:O	1:O:468:HIS:HB2	2.04	0.57
1:O:63:PHE:CB	1:O:64:PRO:HD2	2.25	0.57
1:A:465:GLY:O	1:A:468:HIS:HB2	2.04	0.57
1:A:77:ASP:C	1:A:78:LEU:HD23	2.25	0.57
1:E:130:ASP:OD2	1:E:132:SER:HB3	2.04	0.57
1:F:773:LYS:HB2	1:F:773:LYS:HZ2	1.68	0.57
1:F:894:ARG:HD3	1:F:919:ASP:OD2	2.04	0.57
1:G:355:ASN:OD1	1:G:388:ARG:HD3	2.04	0.57
1:H:493:THR:HG23	5:H:2116:HOH:O	2.03	0.57
1:H:658:LEU:O	1:H:661:LYS:HD3	2.05	0.57
1:H:894:ARG:HD3	1:H:919:ASP:OD2	2.04	0.57
1:I:323:ILE:HD12	1:I:323:ILE:N	2.20	0.57
1:J:63:PHE:CB	1:J:64:PRO:HD2	2.25	0.57
1:K:130:ASP:OD2	1:K:132:SER:HB3	2.04	0.57
1:K:355:ASN:OD1	1:K:388:ARG:HD3	2.04	0.57
1:M:316:HIS:HD2	1:M:317:THR:O	1.87	0.57
1:M:420:MET:HE3	1:M:420:MET:HA	1.86	0.57
1:M:696:LEU:HD12	1:M:697:THR:H	1.69	0.57
1:N:429:ASP:OD1	1:N:430:PRO:HD2	2.03	0.57
1:N:856:TYR:HD2	1:N:864:MET:HE2	1.68	0.57
1:P:546:LEU:HA	5:P:2175:HOH:O	2.04	0.57
1:P:822:LEU:HD12	1:P:824:GLN:H	1.69	0.57
1:B:278:ILE:H	1:B:278:ILE:CD1	2.16	0.57
1:D:130:ASP:OD2	1:D:132:SER:HB3	2.04	0.57
1:D:696:LEU:HD12	1:D:697:THR:H	1.69	0.57
1:E:323:ILE:N	1:E:323:ILE:HD12	2.20	0.57
1:E:493:THR:HG23	5:E:2113:HOH:O	2.03	0.57
1:F:77:ASP:C	1:F:78:LEU:HD23	2.25	0.57
1:H:546:LEU:HA	5:H:2175:HOH:O	2.03	0.57
1:H:581:ASN:OD1	1:H:581:ASN:N	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:63:PHE:CB	1:H:64:PRO:HD2	2.25	0.57
1:H:77:ASP:C	1:H:78:LEU:HD23	2.25	0.57
1:K:278:ILE:H	1:K:278:ILE:CD1	2.16	0.57
1:K:77:ASP:C	1:K:78:LEU:HD23	2.25	0.57
1:L:316:HIS:HD2	1:L:317:THR:O	1.87	0.57
1:M:140:ARG:HB2	1:M:171:PHE:O	2.05	0.57
1:M:579:ASP:OD1	1:M:583:ASN:HB2	2.03	0.57
1:N:278:ILE:CD1	1:N:278:ILE:H	2.16	0.57
1:N:84:VAL:HG12	1:N:85:VAL:N	2.17	0.57
1:A:427:THR:HA	1:A:436:MET:HE2	1.85	0.57
1:A:696:LEU:HD12	1:A:697:THR:H	1.69	0.57
1:C:465:GLY:O	1:C:468:HIS:HB2	2.04	0.57
1:C:696:LEU:HD12	1:C:697:THR:H	1.69	0.57
1:C:599:ARG:HH22	1:C:795:VAL:HG23	1.69	0.57
1:D:316:HIS:HD2	1:D:317:THR:O	1.87	0.57
1:D:546:LEU:HA	5:D:2172:HOH:O	2.03	0.57
1:E:140:ARG:HB2	1:E:171:PHE:O	2.05	0.57
1:E:355:ASN:OD1	1:E:388:ARG:HD3	2.04	0.57
1:E:696:LEU:HD12	1:E:697:THR:H	1.69	0.57
1:G:130:ASP:OD2	1:G:132:SER:HB3	2.04	0.57
1:G:696:LEU:HD12	1:G:697:THR:H	1.69	0.57
1:H:465:GLY:O	1:H:468:HIS:HB2	2.04	0.57
1:J:287:ASP:N	1:J:287:ASP:OD1	2.30	0.57
1:J:546:LEU:HA	5:J:2172:HOH:O	2.04	0.57
1:J:658:LEU:O	1:J:661:LYS:HD3	2.05	0.57
1:K:429:ASP:OD1	1:K:430:PRO:HD2	2.04	0.57
1:L:678:GLN:C	1:L:679:LEU:HD23	2.24	0.57
1:L:822:LEU:HD12	1:L:824:GLN:H	1.69	0.57
1:M:658:LEU:O	1:M:661:LYS:HD3	2.05	0.57
1:M:894:ARG:HD3	1:M:919:ASP:OD2	2.04	0.57
1:N:323:ILE:HD12	1:N:323:ILE:N	2.20	0.57
1:N:696:LEU:HD12	1:N:697:THR:H	1.69	0.57
1:N:77:ASP:C	1:N:78:LEU:HD23	2.25	0.57
1:O:355:ASN:OD1	1:O:388:ARG:HD3	2.04	0.57
1:O:696:LEU:HD12	1:O:697:THR:H	1.69	0.57
1:A:140:ARG:HB2	1:A:171:PHE:O	2.05	0.57
1:A:493:THR:HG23	5:A:2113:HOH:O	2.03	0.57
1:A:658:LEU:O	1:A:661:LYS:HD3	2.05	0.57
1:C:316:HIS:CA	1:C:323:ILE:HD13	2.30	0.57
1:D:894:ARG:HD3	1:D:919:ASP:OD2	2.04	0.57
1:E:749:ILE:N	1:E:749:ILE:HD13	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:753:ASN:OD1	1:E:753:ASN:N	2.28	0.57
1:F:420:MET:O	1:G:282:ARG:HD3	2.05	0.57
1:G:140:ARG:HB2	1:G:171:PHE:O	2.05	0.57
1:G:645:ARG:NH2	1:G:650:GLU:OE1	2.38	0.57
1:H:140:ARG:HB2	1:H:171:PHE:O	2.05	0.57
1:I:355:ASN:OD1	1:I:388:ARG:HD3	2.04	0.57
1:I:84:VAL:HG12	1:I:85:VAL:N	2.17	0.57
1:J:140:ARG:HB2	1:J:171:PHE:O	2.05	0.57
1:K:323:ILE:N	1:K:323:ILE:HD12	2.20	0.57
1:L:599:ARG:HH22	1:L:795:VAL:HG23	1.69	0.57
1:L:759:ASN:OD1	1:L:761:GLN:N	2.35	0.57
1:M:130:ASP:OD2	1:M:132:SER:HB3	2.04	0.57
1:M:323:ILE:HD12	1:M:323:ILE:N	2.20	0.57
1:M:77:ASP:C	1:M:78:LEU:HD23	2.25	0.57
1:P:323:ILE:N	1:P:323:ILE:HD12	2.20	0.57
1:P:77:ASP:C	1:P:78:LEU:HD23	2.25	0.57
1:C:579:ASP:OD1	1:C:583:ASN:HB2	2.03	0.57
1:C:77:ASP:C	1:C:78:LEU:HD23	2.25	0.57
1:D:599:ARG:HH22	1:D:795:VAL:HG23	1.69	0.57
1:D:678:GLN:C	1:D:679:LEU:HD23	2.24	0.57
1:F:696:LEU:HD12	1:F:697:THR:H	1.69	0.57
1:F:822:LEU:HD12	1:F:824:GLN:H	1.69	0.57
1:J:420:MET:HE3	1:J:420:MET:HA	1.86	0.57
1:K:645:ARG:NH2	1:K:650:GLU:OE1	2.38	0.57
1:N:599:ARG:HH22	1:N:795:VAL:HG23	1.69	0.57
1:N:822:LEU:HD12	1:N:824:GLN:H	1.69	0.57
1:P:465:GLY:O	1:P:468:HIS:HB2	2.04	0.57
1:P:581:ASN:N	1:P:581:ASN:OD1	2.36	0.57
1:A:272:ALA:HB1	1:A:273:PRO:HD2	1.87	0.57
1:B:894:ARG:HD3	1:B:919:ASP:OD2	2.04	0.57
1:C:645:ARG:NH2	1:C:650:GLU:OE1	2.38	0.57
1:E:465:GLY:O	1:E:468:HIS:HB2	2.04	0.57
1:G:894:ARG:HD3	1:G:919:ASP:OD2	2.04	0.57
1:H:323:ILE:N	1:H:323:ILE:HD12	2.20	0.57
1:I:822:LEU:HD12	1:I:824:GLN:H	1.69	0.57
1:J:77:ASP:C	1:J:78:LEU:HD23	2.25	0.57
1:L:323:ILE:HD12	1:L:323:ILE:N	2.20	0.57
1:L:580:GLU:CD	1:L:580:GLU:H	2.02	0.57
1:N:465:GLY:O	1:N:468:HIS:HB2	2.04	0.57
1:P:140:ARG:HB2	1:P:171:PHE:O	2.05	0.57
1:A:436:MET:HE1	1:A:467:ASN:HD22	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:894:ARG:HD3	1:A:919:ASP:OD2	2.04	0.56
1:B:272:ALA:HB1	1:B:273:PRO:HD2	1.87	0.56
1:B:599:ARG:HH22	1:B:795:VAL:HG23	1.69	0.56
1:F:323:ILE:HD12	1:F:323:ILE:N	2.20	0.56
1:I:178:ARG:HH11	1:I:178:ARG:CB	2.16	0.56
1:J:645:ARG:NH2	1:J:650:GLU:OE1	2.38	0.56
1:L:140:ARG:HB2	1:L:171:PHE:O	2.05	0.56
1:N:140:ARG:HB2	1:N:171:PHE:O	2.05	0.56
1:P:696:LEU:HD12	1:P:697:THR:H	1.69	0.56
1:B:658:LEU:O	1:B:661:LYS:HD3	2.05	0.56
1:C:323:ILE:N	1:C:323:ILE:HD12	2.20	0.56
1:C:546:LEU:HA	5:C:2172:HOH:O	2.04	0.56
1:D:645:ARG:NH2	1:D:650:GLU:OE1	2.38	0.56
1:D:63:PHE:CB	1:D:64:PRO:HD2	2.25	0.56
1:D:77:ASP:C	1:D:78:LEU:HD23	2.25	0.56
1:E:645:ARG:NH2	1:E:650:GLU:OE1	2.38	0.56
1:F:645:ARG:NH2	1:F:650:GLU:OE1	2.38	0.56
1:H:272:ALA:HB1	1:H:273:PRO:HD2	1.87	0.56
1:H:645:ARG:NH2	1:H:650:GLU:OE1	2.38	0.56
1:I:740:LEU:HD12	1:I:741:THR:N	2.20	0.56
1:L:645:ARG:NH2	1:L:650:GLU:OE1	2.38	0.56
1:N:493:THR:HG23	5:N:2113:HOH:O	2.03	0.56
1:N:645:ARG:NH2	1:N:650:GLU:OE1	2.38	0.56
1:O:420:MET:HA	1:O:420:MET:HE3	1.86	0.56
1:P:740:LEU:HD12	1:P:741:THR:N	2.20	0.56
1:A:316:HIS:CA	1:A:323:ILE:HD13	2.30	0.56
1:A:599:ARG:HH22	1:A:795:VAL:HG23	1.69	0.56
1:A:645:ARG:NH2	1:A:650:GLU:OE1	2.38	0.56
1:B:645:ARG:NH2	1:B:650:GLU:OE1	2.38	0.56
1:C:278:ILE:H	1:C:278:ILE:CD1	2.16	0.56
1:E:287:ASP:CG	1:H:425:ARG:HH22	2.09	0.56
1:E:658:LEU:O	1:E:661:LYS:HD3	2.05	0.56
1:E:599:ARG:HH22	1:E:795:VAL:HG23	1.69	0.56
1:F:316:HIS:HD2	1:F:317:THR:O	1.87	0.56
1:G:822:LEU:HD12	1:G:824:GLN:H	1.69	0.56
1:I:759:ASN:OD1	1:I:761:GLN:HG2	2.06	0.56
1:I:856:TYR:HD2	1:I:864:MET:HE2	1.70	0.56
1:J:323:ILE:HD12	1:J:323:ILE:N	2.20	0.56
1:J:740:LEU:HD12	1:J:741:THR:N	2.21	0.56
1:K:272:ALA:HB1	1:K:273:PRO:HD2	1.87	0.56
1:K:822:LEU:HD12	1:K:824:GLN:H	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:658:LEU:O	1:L:661:LYS:HD3	2.05	0.56
1:N:546:LEU:HA	5:N:2172:HOH:O	2.03	0.56
1:N:658:LEU:O	1:N:661:LYS:HD3	2.05	0.56
1:N:759:ASN:OD1	1:N:761:GLN:HG2	2.06	0.56
1:O:140:ARG:HB2	1:O:171:PHE:O	2.05	0.56
1:O:272:ALA:HB1	1:O:273:PRO:HD2	1.87	0.56
1:O:658:LEU:O	1:O:661:LYS:HD3	2.05	0.56
1:O:822:LEU:HD12	1:O:824:GLN:H	1.69	0.56
1:P:759:ASN:OD1	1:P:761:GLN:HG2	2.06	0.56
1:A:323:ILE:N	1:A:323:ILE:HD12	2.20	0.56
1:A:668:VAL:CG1	1:A:669:PRO:HD2	2.31	0.56
1:B:465:GLY:O	1:B:468:HIS:HB2	2.04	0.56
1:B:847:LYS:HG3	1:B:848:THR:N	2.21	0.56
1:C:822:LEU:HD12	1:C:824:GLN:H	1.69	0.56
1:E:894:ARG:HD3	1:E:919:ASP:OD2	2.04	0.56
1:F:658:LEU:O	1:F:661:LYS:HD3	2.05	0.56
1:G:272:ALA:HB1	1:G:273:PRO:HD2	1.87	0.56
1:G:658:LEU:O	1:G:661:LYS:HD3	2.05	0.56
1:I:824:GLN:HG3	1:I:825:CYS:N	2.21	0.56
1:J:278:ILE:CD1	1:J:278:ILE:H	2.16	0.56
1:K:740:LEU:HD12	1:K:741:THR:N	2.21	0.56
1:M:759:ASN:OD1	1:M:761:GLN:HG2	2.06	0.56
1:O:323:ILE:N	1:O:323:ILE:HD12	2.20	0.56
1:O:3:ILE:HG13	1:O:4:THR:N	2.07	0.56
1:P:272:ALA:HB1	1:P:273:PRO:HD2	1.87	0.56
1:P:355:ASN:OD1	1:P:388:ARG:HD3	2.04	0.56
1:C:272:ALA:HB1	1:C:273:PRO:HD2	1.87	0.56
1:D:759:ASN:OD1	1:D:761:GLN:HG2	2.06	0.56
1:E:282:ARG:HG3	1:H:423:MET:HB2	1.86	0.56
1:F:355:ASN:OD1	1:F:388:ARG:HD3	2.04	0.56
1:F:546:LEU:HA	5:F:2172:HOH:O	2.04	0.56
1:G:3:ILE:HG13	1:G:4:THR:N	2.07	0.56
1:G:77:ASP:C	1:G:78:LEU:HD23	2.25	0.56
1:I:645:ARG:NH2	1:I:650:GLU:OE1	2.38	0.56
1:I:696:LEU:HD12	1:I:697:THR:H	1.69	0.56
1:J:696:LEU:HD12	1:J:697:THR:N	2.21	0.56
1:K:316:HIS:HD2	1:K:317:THR:O	1.87	0.56
1:K:678:GLN:C	1:K:679:LEU:HD23	2.24	0.56
1:L:668:VAL:CG1	1:L:669:PRO:HD2	2.30	0.56
1:O:285:TYR:CB	1:O:288:ARG:HG3	2.33	0.56
1:P:658:LEU:O	1:P:661:LYS:HD3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:140:ARG:HB2	1:B:171:PHE:O	2.05	0.56
1:B:77:ASP:C	1:B:78:LEU:HD23	2.25	0.56
1:C:316:HIS:HD2	1:C:317:THR:O	1.87	0.56
1:C:740:LEU:HD12	1:C:741:THR:N	2.21	0.56
1:C:746:ASP:HA	1:C:760:ARG:CG	2.30	0.56
1:G:285:TYR:CB	1:G:288:ARG:HG3	2.34	0.56
1:I:140:ARG:HB2	1:I:171:PHE:O	2.05	0.56
1:J:465:GLY:O	1:J:468:HIS:HB2	2.04	0.56
1:L:759:ASN:OD1	1:L:761:GLN:HG2	2.06	0.56
1:M:746:ASP:HA	1:M:760:ARG:CG	2.30	0.56
1:M:749:ILE:N	1:M:749:ILE:HD13	2.17	0.56
1:O:429:ASP:OD1	1:O:430:PRO:HD2	2.04	0.56
1:O:77:ASP:C	1:O:78:LEU:HD23	2.25	0.56
1:P:645:ARG:NH2	1:P:650:GLU:OE1	2.38	0.56
1:A:824:GLN:HG3	1:A:825:CYS:N	2.21	0.56
1:B:323:ILE:HD12	1:B:323:ILE:N	2.20	0.56
1:D:355:ASN:OD1	1:D:388:ARG:HD3	2.04	0.56
1:D:658:LEU:O	1:D:661:LYS:HD3	2.05	0.56
1:F:746:ASP:HA	1:F:760:ARG:CG	2.30	0.56
1:G:847:LYS:HG3	1:G:848:THR:N	2.21	0.56
1:H:696:LEU:HD12	1:H:697:THR:H	1.69	0.56
1:H:759:ASN:OD1	1:H:761:GLN:HG2	2.06	0.56
1:I:77:ASP:C	1:I:78:LEU:HD23	2.25	0.56
1:J:668:VAL:CG1	1:J:669:PRO:HD2	2.30	0.56
1:J:599:ARG:HH22	1:J:795:VAL:HG23	1.69	0.56
1:L:634:GLN:HE22	1:L:685:LEU:H	1.54	0.56
1:L:696:LEU:HD12	1:L:697:THR:N	2.21	0.56
1:M:272:ALA:HB1	1:M:273:PRO:HD2	1.87	0.56
1:M:847:LYS:HG3	1:M:848:THR:N	2.21	0.56
1:P:696:LEU:HD12	1:P:697:THR:N	2.21	0.56
1:F:824:GLN:HG3	1:F:825:CYS:N	2.21	0.56
1:F:91:GLN:HG3	1:F:96:ASP:OD1	2.06	0.56
1:G:696:LEU:HD12	1:G:697:THR:N	2.21	0.56
1:H:746:ASP:HA	1:H:760:ARG:CG	2.30	0.56
1:I:287:ASP:N	1:I:287:ASP:OD1	2.30	0.56
1:I:658:LEU:O	1:I:661:LYS:HD3	2.05	0.56
1:J:272:ALA:HB1	1:J:273:PRO:HD2	1.87	0.56
1:K:658:LEU:O	1:K:661:LYS:HD3	2.05	0.56
1:L:696:LEU:HD12	1:L:697:THR:H	1.69	0.56
1:O:696:LEU:HD12	1:O:697:THR:N	2.21	0.56
1:O:824:GLN:HG3	1:O:825:CYS:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:696:LEU:HD12	1:B:697:THR:N	2.21	0.56
1:B:740:LEU:HD12	1:B:741:THR:N	2.21	0.56
1:C:696:LEU:HD12	1:C:697:THR:N	2.21	0.56
1:D:649:ASN:OD1	1:D:703:PRO:HD2	2.06	0.56
1:E:740:LEU:HD12	1:E:741:THR:N	2.21	0.56
1:F:759:ASN:OD1	1:F:761:GLN:HG2	2.06	0.56
1:H:649:ASN:OD1	1:H:703:PRO:HD2	2.06	0.56
1:I:258:VAL:HA	1:I:312:VAL:O	2.06	0.56
1:K:140:ARG:HB2	1:K:171:PHE:O	2.05	0.56
1:K:599:ARG:HH22	1:K:795:VAL:HG23	1.69	0.56
1:L:91:GLN:HG3	1:L:96:ASP:OD1	2.06	0.56
1:M:645:ARG:NH2	1:M:650:GLU:OE1	2.38	0.56
1:M:740:LEU:HD12	1:M:741:THR:N	2.21	0.56
1:N:847:LYS:HG3	1:N:848:THR:N	2.21	0.56
1:O:847:LYS:HG3	1:O:848:THR:N	2.21	0.56
1:A:258:VAL:HA	1:A:312:VAL:O	2.06	0.56
1:B:1021:CME:HB3	1:B:1021:CME:CZ	2.08	0.56
1:B:473:ARG:HD2	1:C:469:ASP:HB3	1.87	0.56
1:C:824:GLN:HG3	1:C:825:CYS:N	2.21	0.56
1:D:140:ARG:HB2	1:D:171:PHE:O	2.05	0.56
1:E:272:ALA:HB1	1:E:273:PRO:HD2	1.87	0.56
1:E:285:TYR:CB	1:E:288:ARG:HG3	2.34	0.56
1:E:847:LYS:HG3	1:E:848:THR:N	2.21	0.56
1:F:258:VAL:HA	1:F:312:VAL:O	2.06	0.56
1:H:258:VAL:HA	1:H:312:VAL:O	2.06	0.56
1:H:285:TYR:CB	1:H:288:ARG:HG3	2.34	0.56
1:H:696:LEU:HD12	1:H:697:THR:N	2.21	0.56
1:I:696:LEU:HD12	1:I:697:THR:N	2.21	0.56
1:J:285:TYR:CB	1:J:288:ARG:HG3	2.34	0.56
1:J:696:LEU:HD12	1:J:697:THR:H	1.69	0.56
1:K:91:GLN:HG3	1:K:96:ASP:OD1	2.06	0.56
1:L:649:ASN:OD1	1:L:703:PRO:HD2	2.06	0.56
1:M:696:LEU:HD12	1:M:697:THR:N	2.21	0.56
1:N:420:MET:HE3	1:N:420:MET:HA	1.88	0.56
1:A:1000:SER:HB2	1:A:1001:PRO:HD2	1.88	0.56
1:B:128:ASN:HA	1:B:180:GLY:O	2.06	0.56
1:B:649:ASN:OD1	1:B:703:PRO:HD2	2.06	0.56
1:B:822:LEU:HD12	1:B:824:GLN:H	1.69	0.56
1:C:258:VAL:HA	1:C:312:VAL:O	2.06	0.56
1:C:322:LEU:C	1:C:322:LEU:HD23	2.27	0.56
1:C:759:ASN:OD1	1:C:761:GLN:HG2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:465:GLY:O	1:D:468:HIS:HB2	2.04	0.56
1:E:581:ASN:OD1	1:E:581:ASN:N	2.36	0.56
1:F:847:LYS:HG3	1:F:848:THR:N	2.21	0.56
1:G:128:ASN:HA	1:G:180:GLY:O	2.06	0.56
1:G:420:MET:HE3	1:G:420:MET:HA	1.87	0.56
1:H:7:LEU:HD13	1:H:74:LEU:CD1	2.35	0.56
1:J:316:HIS:CA	1:J:323:ILE:HD13	2.30	0.56
1:K:316:HIS:CA	1:K:323:ILE:HD13	2.30	0.56
1:K:759:ASN:OD1	1:K:761:GLN:HG2	2.06	0.56
1:N:258:VAL:HA	1:N:312:VAL:O	2.06	0.56
1:N:649:ASN:OD1	1:N:703:PRO:HD2	2.06	0.56
1:O:258:VAL:HA	1:O:312:VAL:O	2.06	0.56
1:O:740:LEU:HD12	1:O:741:THR:N	2.21	0.56
1:P:258:VAL:HA	1:P:312:VAL:O	2.06	0.56
1:P:634:GLN:HE22	1:P:685:LEU:H	1.54	0.56
1:P:649:ASN:OD1	1:P:703:PRO:HD2	2.06	0.56
1:A:660:GLY:O	1:A:662:PRO:HD3	2.07	0.55
1:A:696:LEU:HD12	1:A:697:THR:N	2.21	0.55
1:A:649:ASN:OD1	1:A:703:PRO:HD2	2.06	0.55
1:C:63:PHE:CB	1:C:64:PRO:HD2	2.25	0.55
1:C:658:LEU:O	1:C:661:LYS:HD3	2.05	0.55
1:C:660:GLY:O	1:C:662:PRO:HD3	2.06	0.55
1:C:847:LYS:HG3	1:C:848:THR:N	2.21	0.55
1:C:91:GLN:HG3	1:C:96:ASP:OD1	2.06	0.55
1:D:696:LEU:HD12	1:D:697:THR:N	2.21	0.55
1:D:7:LEU:HD13	1:D:74:LEU:CD1	2.35	0.55
1:F:140:ARG:HB2	1:F:171:PHE:O	2.05	0.55
1:F:278:ILE:CD1	1:F:278:ILE:H	2.16	0.55
1:G:759:ASN:OD1	1:G:761:GLN:HG2	2.06	0.55
1:H:1000:SER:HB2	1:H:1001:PRO:HD2	1.88	0.55
1:H:634:GLN:HE22	1:H:685:LEU:H	1.54	0.55
1:I:634:GLN:HE22	1:I:685:LEU:H	1.54	0.55
1:J:660:GLY:O	1:J:662:PRO:HD3	2.07	0.55
1:K:634:GLN:HE22	1:K:685:LEU:H	1.54	0.55
1:K:920:LEU:HB3	1:K:921:PRO:CD	2.36	0.55
1:L:420:MET:O	1:L:282:ARG:HD3	2.06	0.55
1:L:660:GLY:O	1:L:662:PRO:HD3	2.06	0.55
1:M:660:GLY:O	1:M:662:PRO:HD3	2.06	0.55
1:O:128:ASN:HA	1:O:180:GLY:O	2.06	0.55
1:P:316:HIS:HD2	1:P:317:THR:O	1.87	0.55
1:A:31:PRO:CB	1:A:32:PRO:HD2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:7:LEU:HD13	1:A:74:LEU:CD1	2.35	0.55
1:A:91:GLN:HG3	1:A:96:ASP:OD1	2.06	0.55
1:B:1000:SER:HB2	1:B:1001:PRO:HD2	1.88	0.55
1:B:7:LEU:HD13	1:B:74:LEU:CD1	2.35	0.55
1:B:759:ASN:OD1	1:B:761:GLN:HG2	2.05	0.55
1:F:322:LEU:HD23	1:F:322:LEU:C	2.27	0.55
1:F:634:GLN:HE22	1:F:685:LEU:H	1.54	0.55
1:J:322:LEU:HD23	1:J:322:LEU:C	2.27	0.55
1:K:1000:SER:HB2	1:K:1001:PRO:HD2	1.88	0.55
1:K:696:LEU:HD12	1:K:697:THR:N	2.21	0.55
1:K:847:LYS:HG3	1:K:848:THR:N	2.21	0.55
1:L:272:ALA:HB1	1:L:273:PRO:HD2	1.87	0.55
1:L:847:LYS:HG3	1:L:848:THR:N	2.21	0.55
1:M:128:ASN:HA	1:M:180:GLY:O	2.07	0.55
1:O:1000:SER:HB2	1:O:1001:PRO:HD2	1.88	0.55
1:O:322:LEU:HD23	1:O:322:LEU:C	2.27	0.55
1:O:649:ASN:OD1	1:O:703:PRO:HD2	2.06	0.55
1:O:645:ARG:NH2	1:O:650:GLU:OE1	2.38	0.55
1:P:1000:SER:HB2	1:P:1001:PRO:HD2	1.88	0.55
1:P:746:ASP:HA	1:P:760:ARG:CG	2.30	0.55
1:B:660:GLY:O	1:B:662:PRO:HD3	2.07	0.55
1:D:740:LEU:HD12	1:D:741:THR:N	2.21	0.55
1:E:696:LEU:HD12	1:E:697:THR:N	2.21	0.55
1:F:128:ASN:HA	1:F:180:GLY:O	2.06	0.55
1:G:1000:SER:HB2	1:G:1001:PRO:HD2	1.88	0.55
1:G:323:ILE:HD12	1:G:323:ILE:N	2.20	0.55
1:H:740:LEU:HD12	1:H:741:THR:N	2.21	0.55
1:I:847:LYS:HG3	1:I:848:THR:N	2.21	0.55
1:K:211:ASP:N	1:K:211:ASP:OD1	2.40	0.55
1:L:322:LEU:HD23	1:L:322:LEU:C	2.27	0.55
1:L:824:GLN:HG3	1:L:825:CYS:N	2.21	0.55
1:M:258:VAL:HA	1:M:312:VAL:O	2.06	0.55
1:N:211:ASP:N	1:N:211:ASP:OD1	2.40	0.55
1:N:634:GLN:HE22	1:N:685:LEU:H	1.54	0.55
1:P:678:GLN:O	1:P:679:LEU:HD23	2.07	0.55
1:C:128:ASN:HA	1:C:180:GLY:O	2.06	0.55
1:C:31:PRO:CB	1:C:32:PRO:HD2	2.36	0.55
1:C:649:ASN:OD1	1:C:703:PRO:HD2	2.06	0.55
1:E:91:GLN:HG3	1:E:96:ASP:OD1	2.06	0.55
1:F:272:ALA:HB1	1:F:273:PRO:HD2	1.87	0.55
1:F:696:LEU:HD12	1:F:697:THR:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:824:GLN:HG3	1:G:825:CYS:N	2.21	0.55
1:H:660:GLY:O	1:H:662:PRO:HD3	2.07	0.55
1:I:91:GLN:HG3	1:I:96:ASP:OD1	2.06	0.55
1:J:608:PHE:O	1:J:611:ARG:N	2.38	0.55
1:J:678:GLN:O	1:J:679:LEU:HD23	2.06	0.55
1:K:678:GLN:O	1:K:679:LEU:HD23	2.07	0.55
1:L:7:LEU:HD13	1:L:74:LEU:CD1	2.35	0.55
1:M:322:LEU:C	1:M:322:LEU:HD23	2.27	0.55
1:N:824:GLN:HG3	1:N:825:CYS:N	2.21	0.55
1:N:91:GLN:HG3	1:N:96:ASP:OD1	2.06	0.55
1:E:31:PRO:CB	1:E:32:PRO:HD2	2.36	0.55
1:E:423:MET:HB2	1:H:282:ARG:HG3	1.89	0.55
1:E:759:ASN:OD1	1:E:761:GLN:HG2	2.06	0.55
1:F:660:GLY:O	1:F:662:PRO:HD3	2.06	0.55
1:H:31:PRO:CB	1:H:32:PRO:HD2	2.36	0.55
1:I:272:ALA:HB1	1:I:273:PRO:HD2	1.87	0.55
1:J:759:ASN:OD1	1:J:761:GLN:HG2	2.06	0.55
1:M:31:PRO:CB	1:M:32:PRO:HD2	2.37	0.55
1:N:696:LEU:HD12	1:N:697:THR:N	2.21	0.55
1:O:278:ILE:H	1:O:278:ILE:CD1	2.16	0.55
1:P:31:PRO:CB	1:P:32:PRO:HD2	2.37	0.55
1:P:91:GLN:HG3	1:P:96:ASP:OD1	2.06	0.55
1:B:322:LEU:C	1:B:322:LEU:HD23	2.27	0.55
1:B:773:LYS:HB2	1:B:773:LYS:HZ2	1.70	0.55
1:C:1000:SER:HB2	1:C:1001:PRO:HD2	1.88	0.55
1:D:128:ASN:HA	1:D:180:GLY:O	2.06	0.55
1:D:258:VAL:HA	1:D:312:VAL:O	2.06	0.55
1:D:91:GLN:HG3	1:D:96:ASP:OD1	2.06	0.55
1:E:322:LEU:HD23	1:E:322:LEU:C	2.27	0.55
1:E:316:HIS:CA	1:E:323:ILE:HD13	2.30	0.55
1:E:568:TRP:HE1	1:E:604:ASN:ND2	2.05	0.55
1:G:258:VAL:HA	1:G:312:VAL:O	2.06	0.55
1:H:824:GLN:HG3	1:H:825:CYS:N	2.21	0.55
1:I:282:ARG:HG3	1:L:423:MET:HB2	1.87	0.55
1:J:31:PRO:CB	1:J:32:PRO:HD2	2.36	0.55
1:J:920:LEU:HB3	1:J:921:PRO:CD	2.36	0.55
1:K:31:PRO:CB	1:K:32:PRO:HD2	2.36	0.55
1:K:322:LEU:HD23	1:K:322:LEU:C	2.27	0.55
1:L:31:PRO:CB	1:L:32:PRO:HD2	2.36	0.55
1:L:608:PHE:O	1:L:611:ARG:N	2.37	0.55
1:N:128:ASN:HA	1:N:180:GLY:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:272:ALA:HB1	1:N:273:PRO:HD2	1.87	0.55
1:P:128:ASN:HA	1:P:180:GLY:O	2.06	0.55
1:P:920:LEU:HB3	1:P:921:PRO:CD	2.37	0.55
1:C:678:GLN:O	1:C:679:LEU:HD23	2.07	0.55
1:D:285:TYR:CB	1:D:288:ARG:HG3	2.34	0.55
1:E:258:VAL:HA	1:E:312:VAL:O	2.06	0.55
1:G:31:PRO:CB	1:G:32:PRO:HD2	2.36	0.55
1:G:649:ASN:OD1	1:G:703:PRO:HD2	2.06	0.55
1:G:7:LEU:HD13	1:G:74:LEU:CD1	2.35	0.55
1:J:128:ASN:HA	1:J:180:GLY:O	2.06	0.55
1:J:634:GLN:HE22	1:J:685:LEU:H	1.54	0.55
1:M:581:ASN:N	1:M:581:ASN:OD1	2.36	0.55
1:N:322:LEU:HD23	1:N:322:LEU:C	2.27	0.55
1:N:395:HIS:ND1	1:N:396:PRO:HD2	2.22	0.55
1:N:568:TRP:HE1	1:N:604:ASN:ND2	2.05	0.55
1:O:31:PRO:CB	1:O:32:PRO:HD2	2.36	0.55
1:O:634:GLN:HE22	1:O:685:LEU:H	1.54	0.55
1:P:211:ASP:OD1	1:P:211:ASP:N	2.40	0.55
1:P:917:ARG:HH22	1:P:943:GLU:CD	2.10	0.55
1:A:217:LYS:HG2	1:A:218:PRO:HD2	1.89	0.55
1:A:322:LEU:HD23	1:A:322:LEU:C	2.27	0.55
1:A:740:LEU:HD12	1:A:741:THR:N	2.21	0.55
1:B:258:VAL:HA	1:B:312:VAL:O	2.06	0.55
1:D:316:HIS:CA	1:D:323:ILE:HD13	2.30	0.55
1:D:678:GLN:O	1:D:679:LEU:HD23	2.07	0.55
1:E:89:ASN:O	1:E:92:MET:HB2	2.07	0.55
1:E:942:ARG:HA	1:E:953:GLY:O	2.07	0.55
1:F:740:LEU:HD12	1:F:741:THR:N	2.20	0.55
1:G:660:GLY:O	1:G:662:PRO:HD3	2.07	0.55
1:G:678:GLN:O	1:G:679:LEU:HD23	2.07	0.55
1:G:634:GLN:HE22	1:G:685:LEU:H	1.54	0.55
1:H:917:ARG:HH22	1:H:943:GLU:CD	2.10	0.55
1:H:91:GLN:HG3	1:H:96:ASP:OD1	2.06	0.55
1:I:211:ASP:OD1	1:I:211:ASP:N	2.40	0.55
1:I:31:PRO:CB	1:I:32:PRO:HD2	2.36	0.55
1:J:942:ARG:HA	1:J:953:GLY:O	2.07	0.55
1:K:649:ASN:OD1	1:K:703:PRO:HD2	2.06	0.55
1:K:746:ASP:HA	1:K:760:ARG:CG	2.30	0.55
1:M:153:TRP:CD1	1:M:158:TRP:HA	2.42	0.55
1:M:395:HIS:ND1	1:M:396:PRO:HD2	2.22	0.55
1:M:942:ARG:HA	1:M:953:GLY:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:678:GLN:O	1:N:679:LEU:HD23	2.07	0.55
1:O:660:GLY:O	1:O:662:PRO:HD3	2.06	0.55
1:O:724:GLU:O	1:P:847:LYS:NZ	2.30	0.55
1:O:91:GLN:HG3	1:O:96:ASP:OD1	2.06	0.55
1:A:579:ASP:OD2	1:A:583:ASN:HB2	2.07	0.55
1:A:634:GLN:HE22	1:A:685:LEU:H	1.54	0.55
1:A:759:ASN:OD1	1:A:761:GLN:HG2	2.06	0.55
1:A:847:LYS:HG3	1:A:848:THR:N	2.21	0.55
1:B:217:LYS:HG2	1:B:218:PRO:HD2	1.89	0.55
1:C:140:ARG:HB2	1:C:171:PHE:O	2.05	0.55
1:C:608:PHE:O	1:C:611:ARG:N	2.38	0.55
1:D:847:LYS:HG3	1:D:848:THR:N	2.21	0.55
1:E:678:GLN:O	1:E:679:LEU:HD23	2.07	0.55
1:F:942:ARG:HA	1:F:953:GLY:O	2.07	0.55
1:G:217:LYS:HG2	1:G:218:PRO:HD2	1.89	0.55
1:G:942:ARG:HA	1:G:953:GLY:O	2.07	0.55
1:I:660:GLY:O	1:I:662:PRO:HD3	2.06	0.55
1:J:1000:SER:HB2	1:J:1001:PRO:HD2	1.88	0.55
1:M:423:MET:HB2	1:P:282:ARG:HG3	1.88	0.55
1:M:91:GLN:HG3	1:M:96:ASP:OD1	2.06	0.55
1:N:579:ASP:OD2	1:N:583:ASN:HB2	2.07	0.55
1:N:7:LEU:HD13	1:N:74:LEU:CD1	2.35	0.55
1:O:217:LYS:HG2	1:O:218:PRO:HD2	1.89	0.55
1:O:759:ASN:OD1	1:O:761:GLN:HG2	2.06	0.55
1:O:942:ARG:HA	1:O:953:GLY:O	2.07	0.55
1:P:660:GLY:O	1:P:662:PRO:HD3	2.07	0.55
1:C:89:ASN:O	1:C:92:MET:HB2	2.07	0.55
1:D:211:ASP:N	1:D:211:ASP:OD1	2.40	0.55
1:D:917:ARG:HH22	1:D:943:GLU:CD	2.10	0.55
1:E:128:ASN:HA	1:E:180:GLY:O	2.06	0.55
1:E:395:HIS:ND1	1:E:396:PRO:HD2	2.22	0.55
1:F:395:HIS:ND1	1:F:396:PRO:HD2	2.22	0.55
1:H:395:HIS:ND1	1:H:396:PRO:HD2	2.22	0.55
1:H:847:LYS:HG3	1:H:848:THR:N	2.21	0.55
1:I:579:ASP:OD2	1:I:583:ASN:HB2	2.07	0.55
1:J:579:ASP:OD2	1:J:583:ASN:HB2	2.07	0.55
1:K:660:GLY:O	1:K:662:PRO:HD3	2.06	0.55
1:L:258:VAL:HA	1:L:312:VAL:O	2.06	0.55
1:M:1000:SER:HB2	1:M:1001:PRO:HD2	1.88	0.55
1:M:824:GLN:HG3	1:M:825:CYS:N	2.21	0.55
1:N:153:TRP:CD1	1:N:158:TRP:HA	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:740:LEU:HD12	1:N:741:THR:N	2.21	0.55
1:N:942:ARG:HA	1:N:953:GLY:O	2.07	0.55
1:O:153:TRP:CD1	1:O:158:TRP:HA	2.42	0.55
1:A:128:ASN:HA	1:A:180:GLY:O	2.06	0.54
1:A:395:HIS:ND1	1:A:396:PRO:HD2	2.22	0.54
1:B:773:LYS:HZ3	1:B:773:LYS:HB2	1.71	0.54
1:C:395:HIS:ND1	1:C:396:PRO:HD2	2.22	0.54
1:C:420:MET:HE3	1:C:420:MET:HA	1.88	0.54
1:C:942:ARG:HA	1:C:953:GLY:O	2.07	0.54
1:C:950:GLN:HB3	1:C:1021:CME:HE3	1.90	0.54
1:D:660:GLY:O	1:D:662:PRO:HD3	2.07	0.54
1:D:920:LEU:HB3	1:D:921:PRO:CD	2.37	0.54
1:E:579:ASP:OD2	1:E:583:ASN:HB2	2.07	0.54
1:F:31:PRO:CB	1:F:32:PRO:HD2	2.37	0.54
1:F:649:ASN:OD1	1:F:703:PRO:HD2	2.06	0.54
1:G:91:GLN:HG3	1:G:96:ASP:OD1	2.06	0.54
1:I:178:ARG:HH11	1:I:178:ARG:HB2	1.72	0.54
1:J:258:VAL:HA	1:J:312:VAL:O	2.06	0.54
1:J:395:HIS:ND1	1:J:396:PRO:HD2	2.22	0.54
1:K:153:TRP:CD1	1:K:158:TRP:HA	2.42	0.54
1:L:678:GLN:O	1:L:679:LEU:HD23	2.07	0.54
1:N:31:PRO:CB	1:N:32:PRO:HD2	2.37	0.54
1:B:285:TYR:CB	1:B:288:ARG:HG3	2.34	0.54
1:B:31:PRO:CB	1:B:32:PRO:HD2	2.36	0.54
1:B:579:ASP:OD2	1:B:583:ASN:HB2	2.07	0.54
1:B:91:GLN:HG3	1:B:96:ASP:OD1	2.06	0.54
1:B:950:GLN:HB3	1:B:1021:CME:HE3	1.90	0.54
1:D:950:GLN:HB3	1:D:1021:CME:HE3	1.90	0.54
1:D:322:LEU:C	1:D:322:LEU:HD23	2.27	0.54
1:D:824:GLN:HG3	1:D:825:CYS:N	2.21	0.54
1:D:961:ARG:NH2	1:D:979:GLU:O	2.37	0.54
1:E:634:GLN:HE22	1:E:685:LEU:H	1.54	0.54
1:E:649:ASN:OD1	1:E:703:PRO:HD2	2.06	0.54
1:F:1000:SER:HB2	1:F:1001:PRO:HD2	1.88	0.54
1:F:579:ASP:OD2	1:F:583:ASN:HB2	2.07	0.54
1:F:678:GLN:O	1:F:679:LEU:HD23	2.07	0.54
1:F:89:ASN:O	1:F:92:MET:HB2	2.07	0.54
1:G:322:LEU:C	1:G:322:LEU:HD23	2.27	0.54
1:G:920:LEU:HB3	1:G:921:PRO:CD	2.37	0.54
1:H:322:LEU:HD23	1:H:322:LEU:C	2.27	0.54
1:J:153:TRP:CD1	1:J:158:TRP:HA	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:649:ASN:OD1	1:J:703:PRO:HD2	2.06	0.54
1:J:824:GLN:HG3	1:J:825:CYS:N	2.21	0.54
1:J:847:LYS:HG3	1:J:848:THR:N	2.21	0.54
1:K:5:ASP:OD2	1:K:157:ARG:HA	2.08	0.54
1:J:420:MET:O	1:K:282:ARG:HD3	2.07	0.54
1:L:917:ARG:HH22	1:L:943:GLU:CD	2.10	0.54
1:L:942:ARG:HA	1:L:953:GLY:O	2.07	0.54
1:N:89:ASN:O	1:N:92:MET:HB2	2.07	0.54
1:P:580:GLU:CD	1:P:580:GLU:H	2.02	0.54
1:B:395:HIS:ND1	1:B:396:PRO:HD2	2.22	0.54
1:D:272:ALA:HB1	1:D:273:PRO:HD2	1.87	0.54
1:D:31:PRO:CB	1:D:32:PRO:HD2	2.36	0.54
1:D:65:ALA:CB	1:D:66:PRO:HD2	2.33	0.54
1:D:942:ARG:HA	1:D:953:GLY:O	2.07	0.54
1:E:660:GLY:O	1:E:662:PRO:HD3	2.07	0.54
1:F:950:GLN:HB3	1:F:1021:CME:HE3	1.89	0.54
1:G:153:TRP:CD1	1:G:158:TRP:HA	2.42	0.54
1:G:917:ARG:HH22	1:G:943:GLU:CD	2.10	0.54
1:H:678:GLN:O	1:H:679:LEU:HD23	2.07	0.54
1:I:153:TRP:CD1	1:I:158:TRP:HA	2.42	0.54
1:I:678:GLN:O	1:I:679:LEU:HD23	2.07	0.54
1:J:89:ASN:O	1:J:92:MET:HB2	2.07	0.54
1:L:178:ARG:HH11	1:L:178:ARG:HB2	1.72	0.54
1:L:740:LEU:HD12	1:L:741:THR:N	2.21	0.54
1:M:217:LYS:HG2	1:M:218:PRO:HD2	1.89	0.54
1:M:634:GLN:HE22	1:M:685:LEU:H	1.54	0.54
1:N:1000:SER:HB2	1:N:1001:PRO:HD2	1.88	0.54
1:N:5:ASP:OD2	1:N:157:ARG:HA	2.08	0.54
1:N:65:ALA:CB	1:N:66:PRO:HD2	2.33	0.54
1:N:660:GLY:O	1:N:662:PRO:HD3	2.07	0.54
1:N:856:TYR:CD2	1:N:864:MET:HE2	2.43	0.54
1:N:950:GLN:HB3	1:N:1021:CME:HE3	1.89	0.54
1:P:942:ARG:HA	1:P:953:GLY:O	2.07	0.54
1:A:89:ASN:O	1:A:92:MET:HB2	2.07	0.54
1:B:138:GLN:HG2	1:B:139:THR:N	2.22	0.54
1:B:634:GLN:HE22	1:B:685:LEU:H	1.54	0.54
1:C:5:ASP:OD2	1:C:157:ARG:HA	2.08	0.54
1:E:1000:SER:HB2	1:E:1001:PRO:HD2	1.88	0.54
1:E:668:VAL:CG1	1:E:669:PRO:HD2	2.31	0.54
1:E:917:ARG:HH22	1:E:943:GLU:CD	2.10	0.54
1:F:473:ARG:HD2	1:G:469:ASP:HB3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:740:LEU:HD12	1:G:741:THR:N	2.21	0.54
1:H:5:ASP:OD2	1:H:157:ARG:HA	2.08	0.54
1:H:612:THR:HB	1:H:613:PRO:HD2	1.90	0.54
1:J:282:ARG:HG3	1:K:423:MET:HB2	1.88	0.54
1:J:7:LEU:HD13	1:J:74:LEU:CD1	2.35	0.54
1:K:285:TYR:CB	1:K:288:ARG:HG3	2.34	0.54
1:K:89:ASN:O	1:K:92:MET:HB2	2.07	0.54
1:L:1000:SER:HB2	1:L:1001:PRO:HD2	1.88	0.54
1:L:153:TRP:CD1	1:L:158:TRP:HA	2.42	0.54
1:L:5:ASP:OD2	1:L:157:ARG:HA	2.08	0.54
1:M:678:GLN:O	1:M:679:LEU:HD23	2.07	0.54
1:M:649:ASN:OD1	1:M:703:PRO:HD2	2.06	0.54
1:N:73:TRP:CZ2	1:N:122:CYS:HB3	2.43	0.54
1:O:579:ASP:OD2	1:O:583:ASN:HB2	2.07	0.54
1:O:920:LEU:HB3	1:O:921:PRO:CD	2.36	0.54
1:P:153:TRP:CD1	1:P:158:TRP:HA	2.42	0.54
1:P:5:ASP:OD2	1:P:157:ARG:HA	2.08	0.54
1:P:824:GLN:HG3	1:P:825:CYS:N	2.21	0.54
1:A:5:ASP:OD2	1:A:157:ARG:HA	2.08	0.54
1:A:685:LEU:HB3	1:A:686:PRO:HD2	1.90	0.54
1:B:178:ARG:HB2	1:B:178:ARG:HH11	1.72	0.54
1:B:678:GLN:O	1:B:679:LEU:HD23	2.06	0.54
1:D:395:HIS:ND1	1:D:396:PRO:HD2	2.22	0.54
1:D:533:LEU:HD23	1:D:533:LEU:C	2.28	0.54
1:D:89:ASN:O	1:D:92:MET:HB2	2.07	0.54
1:E:824:GLN:HG3	1:E:825:CYS:N	2.21	0.54
1:F:153:TRP:CD1	1:F:158:TRP:HA	2.42	0.54
1:F:65:ALA:CB	1:F:66:PRO:HD2	2.33	0.54
1:G:579:ASP:OD2	1:G:583:ASN:HB2	2.07	0.54
1:G:73:TRP:CZ2	1:G:122:CYS:HB3	2.43	0.54
1:H:128:ASN:HA	1:H:180:GLY:O	2.06	0.54
1:H:153:TRP:CD1	1:H:158:TRP:HA	2.42	0.54
1:I:322:LEU:HD23	1:I:322:LEU:C	2.27	0.54
1:I:749:ILE:N	1:I:749:ILE:HD13	2.17	0.54
1:K:258:VAL:HA	1:K:312:VAL:O	2.06	0.54
1:K:824:GLN:HG3	1:K:825:CYS:N	2.21	0.54
1:L:138:GLN:N	1:L:217:LYS:O	2.33	0.54
1:L:322:LEU:HD21	1:L:324:GLU:CA	2.38	0.54
1:L:568:TRP:HE1	1:L:604:ASN:ND2	2.05	0.54
1:M:608:PHE:O	1:M:611:ARG:N	2.38	0.54
1:N:1021:CME:HB3	1:N:1021:CME:CZ	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:612:THR:HB	1:O:613:PRO:HD2	1.90	0.54
1:P:612:THR:HB	1:P:613:PRO:HD2	1.90	0.54
1:A:322:LEU:HD21	1:A:324:GLU:CA	2.38	0.54
1:A:942:ARG:HA	1:A:953:GLY:O	2.07	0.54
1:B:73:TRP:CZ2	1:B:122:CYS:HB3	2.43	0.54
1:B:322:LEU:HD21	1:B:324:GLU:CA	2.38	0.54
1:B:533:LEU:C	1:B:533:LEU:HD23	2.28	0.54
1:B:942:ARG:HA	1:B:953:GLY:O	2.07	0.54
1:B:917:ARG:HH22	1:B:943:GLU:CD	2.10	0.54
1:C:917:ARG:HH22	1:C:943:GLU:CD	2.10	0.54
1:D:178:ARG:HH11	1:D:178:ARG:HB2	1.72	0.54
1:E:153:TRP:CD1	1:E:158:TRP:HA	2.42	0.54
1:E:217:LYS:HG2	1:E:218:PRO:HD2	1.89	0.54
1:E:612:THR:HB	1:E:613:PRO:HD2	1.90	0.54
1:F:533:LEU:HD23	1:F:533:LEU:C	2.28	0.54
1:G:395:HIS:ND1	1:G:396:PRO:HD2	2.22	0.54
1:G:612:THR:HB	1:G:613:PRO:HD2	1.90	0.54
1:H:217:LYS:HG2	1:H:218:PRO:HD2	1.89	0.54
1:H:322:LEU:HD21	1:H:324:GLU:CA	2.38	0.54
1:I:217:LYS:HG2	1:I:218:PRO:HD2	1.89	0.54
1:I:73:TRP:CZ2	1:I:122:CYS:HB3	2.43	0.54
1:I:89:ASN:O	1:I:92:MET:HB2	2.07	0.54
1:J:178:ARG:HB2	1:J:178:ARG:HH11	1.72	0.54
1:J:568:TRP:HE1	1:J:604:ASN:ND2	2.05	0.54
1:L:128:ASN:HA	1:L:180:GLY:O	2.06	0.54
1:L:217:LYS:HG2	1:L:218:PRO:HD2	1.89	0.54
1:L:73:TRP:CZ2	1:L:122:CYS:HB3	2.43	0.54
1:M:579:ASP:OD2	1:M:583:ASN:HB2	2.07	0.54
1:M:612:THR:HB	1:M:613:PRO:HD2	1.90	0.54
1:M:7:LEU:HD13	1:M:74:LEU:CD1	2.35	0.54
1:M:917:ARG:HH22	1:M:943:GLU:CD	2.10	0.54
1:N:533:LEU:HD23	1:N:533:LEU:C	2.28	0.54
1:O:395:HIS:ND1	1:O:396:PRO:HD2	2.22	0.54
1:O:678:GLN:O	1:O:679:LEU:HD23	2.07	0.54
1:P:278:ILE:H	1:P:278:ILE:CD1	2.16	0.54
1:P:847:LYS:HG3	1:P:848:THR:N	2.21	0.54
1:A:138:GLN:HG2	1:A:139:THR:N	2.23	0.54
1:A:153:TRP:CD1	1:A:158:TRP:HA	2.42	0.54
1:C:634:GLN:HE22	1:C:685:LEU:H	1.54	0.54
1:A:420:MET:O	1:D:282:ARG:HD3	2.07	0.54
1:D:343:LEU:HD23	1:D:348:PRO:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:322:LEU:HD21	1:G:324:GLU:CA	2.38	0.54
1:I:128:ASN:HA	1:I:180:GLY:O	2.07	0.54
1:I:343:LEU:HD23	1:I:348:PRO:HA	1.90	0.54
1:I:533:LEU:HD23	1:I:533:LEU:C	2.28	0.54
1:I:832:ASP:N	1:I:832:ASP:OD1	2.41	0.54
1:J:138:GLN:HG2	1:J:139:THR:N	2.23	0.54
1:J:5:ASP:OD2	1:J:157:ARG:HA	2.08	0.54
1:J:322:LEU:HD21	1:J:324:GLU:CA	2.38	0.54
1:J:423:MET:HB2	1:K:282:ARG:HG3	1.90	0.54
1:J:91:GLN:HG3	1:J:96:ASP:OD1	2.06	0.54
1:K:73:TRP:CZ2	1:K:122:CYS:HB3	2.43	0.54
1:K:685:LEU:HB3	1:K:686:PRO:HD2	1.90	0.54
1:L:418:HIS:O	1:L:282:ARG:HD2	2.08	0.54
1:L:533:LEU:C	1:L:533:LEU:HD23	2.28	0.54
1:M:5:ASP:OD2	1:M:157:ARG:HA	2.08	0.54
1:M:89:ASN:O	1:M:92:MET:HB2	2.07	0.54
1:N:138:GLN:N	1:N:217:LYS:O	2.33	0.54
1:O:322:LEU:HD21	1:O:324:GLU:CA	2.38	0.54
1:P:395:HIS:ND1	1:P:396:PRO:HD2	2.22	0.54
1:P:63:PHE:CB	1:P:64:PRO:HD2	2.25	0.54
1:A:73:TRP:CZ2	1:A:122:CYS:HB3	2.43	0.54
1:B:685:LEU:HB3	1:B:686:PRO:HD2	1.90	0.54
1:B:824:GLN:HG3	1:B:825:CYS:N	2.21	0.54
1:C:533:LEU:HD23	1:C:533:LEU:C	2.28	0.54
1:C:832:ASP:N	1:C:832:ASP:OD1	2.41	0.54
1:E:73:TRP:CZ2	1:E:122:CYS:HB3	2.43	0.54
1:F:211:ASP:N	1:F:211:ASP:OD1	2.40	0.54
1:F:138:GLN:N	1:F:217:LYS:O	2.33	0.54
1:G:533:LEU:HD23	1:G:533:LEU:C	2.28	0.54
1:G:89:ASN:O	1:G:92:MET:HB2	2.07	0.54
1:H:579:ASP:OD2	1:H:583:ASN:HB2	2.07	0.54
1:I:917:ARG:HH22	1:I:943:GLU:CD	2.10	0.54
1:J:73:TRP:CZ2	1:J:122:CYS:HB3	2.43	0.54
1:K:128:ASN:HA	1:K:180:GLY:O	2.06	0.54
1:K:568:TRP:CE2	2:K:2001:2FG:H5	2.43	0.54
1:K:343:LEU:HD23	1:K:348:PRO:HA	1.90	0.54
1:K:533:LEU:HD23	1:K:533:LEU:C	2.28	0.54
1:K:961:ARG:NH2	1:K:979:GLU:O	2.37	0.54
1:M:322:LEU:HD21	1:M:324:GLU:CA	2.38	0.54
1:P:73:TRP:CZ2	1:P:122:CYS:HB3	2.43	0.54
1:P:322:LEU:HD23	1:P:322:LEU:C	2.27	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:322:LEU:HD21	1:P:324:GLU:CA	2.38	0.54
1:D:612:THR:HB	1:D:613:PRO:HD2	1.90	0.54
1:D:634:GLN:HE22	1:D:685:LEU:H	1.54	0.54
1:E:322:LEU:HD21	1:E:324:GLU:CA	2.38	0.54
1:F:612:THR:HB	1:F:613:PRO:HD2	1.90	0.54
1:F:920:LEU:HB3	1:F:921:PRO:CD	2.37	0.54
1:H:89:ASN:O	1:H:92:MET:HB2	2.07	0.54
1:I:282:ARG:HD3	1:L:420:MET:O	2.07	0.54
1:I:649:ASN:OD1	1:I:703:PRO:HD2	2.06	0.54
1:I:7:LEU:HD13	1:I:74:LEU:CD1	2.35	0.54
1:J:533:LEU:HD23	1:J:533:LEU:C	2.28	0.54
1:K:217:LYS:HG2	1:K:218:PRO:HD2	1.89	0.54
1:K:322:LEU:HD21	1:K:324:GLU:CA	2.38	0.54
1:K:579:ASP:OD2	1:K:583:ASN:HB2	2.07	0.54
1:K:832:ASP:N	1:K:832:ASP:OD1	2.41	0.54
1:L:343:LEU:HD23	1:L:348:PRO:HA	1.90	0.54
1:M:832:ASP:OD1	1:M:832:ASP:N	2.41	0.54
1:N:322:LEU:HD21	1:N:324:GLU:CA	2.38	0.54
1:N:612:THR:HB	1:N:613:PRO:HD2	1.90	0.54
1:P:217:LYS:HG2	1:P:218:PRO:HD2	1.89	0.54
1:P:89:ASN:O	1:P:92:MET:HB2	2.07	0.54
1:A:917:ARG:HH22	1:A:943:GLU:CD	2.10	0.54
1:B:153:TRP:CD1	1:B:158:TRP:HA	2.42	0.54
1:B:612:THR:HB	1:B:613:PRO:HD2	1.90	0.54
1:B:89:ASN:O	1:B:92:MET:HB2	2.07	0.54
1:C:579:ASP:OD2	1:C:583:ASN:HB2	2.07	0.54
1:C:869:ASP:OD2	1:C:1015:HIS:ND1	2.37	0.54
1:D:5:ASP:OD2	1:D:157:ARG:HA	2.08	0.54
1:D:416:GLU:CG	1:D:418:HIS:HB2	2.38	0.54
1:D:579:ASP:OD2	1:D:583:ASN:HB2	2.07	0.54
1:E:416:GLU:CG	1:E:418:HIS:HB2	2.38	0.54
1:E:420:MET:O	1:H:282:ARG:HD3	2.08	0.54
1:F:178:ARG:HB2	1:F:178:ARG:HH11	1.72	0.54
1:G:568:TRP:HE1	1:G:604:ASN:ND2	2.05	0.54
1:H:73:TRP:CZ2	1:H:122:CYS:HB3	2.43	0.54
1:H:685:LEU:HB3	1:H:686:PRO:HD2	1.90	0.54
1:K:416:GLU:CG	1:K:418:HIS:HB2	2.38	0.54
1:K:608:PHE:O	1:K:611:ARG:N	2.38	0.54
1:K:942:ARG:HA	1:K:953:GLY:O	2.07	0.54
1:M:73:TRP:CZ2	1:M:122:CYS:HB3	2.43	0.54
1:M:416:GLU:CG	1:M:418:HIS:HB2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:920:LEU:HB3	1:N:921:PRO:CD	2.36	0.54
1:O:287:ASP:N	1:O:287:ASP:OD1	2.30	0.54
1:O:89:ASN:O	1:O:92:MET:HB2	2.07	0.54
1:P:651:LEU:HD12	1:P:668:VAL:O	2.09	0.54
1:A:416:GLU:CG	1:A:418:HIS:HB2	2.38	0.53
1:A:612:THR:HB	1:A:613:PRO:HD2	1.90	0.53
1:B:952:ARG:HH11	1:B:952:ARG:CG	2.22	0.53
1:C:153:TRP:CD1	1:C:158:TRP:HA	2.42	0.53
1:C:568:TRP:CE2	2:C:2001:2FG:H5	2.43	0.53
1:C:416:GLU:CG	1:C:418:HIS:HB2	2.38	0.53
1:E:343:LEU:HD23	1:E:348:PRO:HA	1.90	0.53
1:E:7:LEU:HD13	1:E:74:LEU:CD1	2.35	0.53
1:E:920:LEU:HB3	1:E:921:PRO:CD	2.36	0.53
1:E:950:GLN:HB3	1:E:1021:CME:HE3	1.90	0.53
1:F:917:ARG:HH22	1:F:943:GLU:CD	2.10	0.53
1:H:533:LEU:C	1:H:533:LEU:HD23	2.28	0.53
1:I:950:GLN:HB3	1:I:1021:CME:HE3	1.89	0.53
1:J:950:GLN:HB3	1:J:1021:CME:HE3	1.89	0.53
1:K:395:HIS:ND1	1:K:396:PRO:HD2	2.22	0.53
1:L:395:HIS:ND1	1:L:396:PRO:HD2	2.22	0.53
1:L:579:ASP:OD2	1:L:583:ASN:HB2	2.07	0.53
1:M:131:GLU:HA	1:M:134:LEU:HB2	1.90	0.53
1:M:920:LEU:HB3	1:M:921:PRO:CD	2.36	0.53
1:O:533:LEU:HD23	1:O:533:LEU:C	2.28	0.53
1:P:227:VAL:HG12	1:P:228:ALA:N	2.24	0.53
1:P:533:LEU:HD23	1:P:533:LEU:C	2.28	0.53
1:P:65:ALA:CB	1:P:66:PRO:HD2	2.33	0.53
1:A:227:VAL:HG12	1:A:228:ALA:N	2.24	0.53
1:C:73:TRP:CZ2	1:C:122:CYS:HB3	2.43	0.53
1:D:227:VAL:HG12	1:D:228:ALA:N	2.24	0.53
1:D:73:TRP:CZ2	1:D:122:CYS:HB3	2.43	0.53
1:E:5:ASP:OD2	1:E:157:ARG:HA	2.08	0.53
1:E:227:VAL:HG12	1:E:228:ALA:N	2.24	0.53
1:E:651:LEU:HD12	1:E:668:VAL:O	2.09	0.53
1:F:322:LEU:HD21	1:F:324:GLU:CA	2.38	0.53
1:F:73:TRP:CZ2	1:F:122:CYS:HB3	2.43	0.53
1:H:227:VAL:HG12	1:H:228:ALA:N	2.24	0.53
1:H:343:LEU:HD23	1:H:348:PRO:HA	1.90	0.53
1:I:1000:SER:HB2	1:I:1001:PRO:HD2	1.88	0.53
1:I:131:GLU:HA	1:I:134:LEU:HB2	1.91	0.53
1:J:217:LYS:HG2	1:J:218:PRO:HD2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:685:LEU:HB3	1:L:686:PRO:HD2	1.90	0.53
1:M:343:LEU:HD23	1:M:348:PRO:HA	1.90	0.53
1:N:952:ARG:CG	1:N:952:ARG:HH11	2.22	0.53
1:O:73:TRP:CZ2	1:O:122:CYS:HB3	2.43	0.53
1:P:138:GLN:N	1:P:217:LYS:O	2.33	0.53
1:P:343:LEU:HD23	1:P:348:PRO:HA	1.90	0.53
1:P:416:GLU:CG	1:P:418:HIS:HB2	2.38	0.53
1:P:579:ASP:OD2	1:P:583:ASN:HB2	2.07	0.53
1:C:773:LYS:HZ2	1:C:773:LYS:HB2	1.73	0.53
1:D:153:TRP:CD1	1:D:158:TRP:HA	2.42	0.53
1:D:952:ARG:HH11	1:D:952:ARG:CG	2.22	0.53
1:F:416:GLU:CG	1:F:418:HIS:HB2	2.38	0.53
1:F:5:ASP:OD2	1:F:157:ARG:HA	2.08	0.53
1:F:952:ARG:CG	1:F:952:ARG:HH11	2.22	0.53
1:G:651:LEU:HD12	1:G:668:VAL:O	2.09	0.53
1:G:950:GLN:HB3	1:G:1021:CME:HE3	1.89	0.53
1:H:568:TRP:CE2	2:H:2001:2FG:H5	2.43	0.53
1:I:952:ARG:HH11	1:I:952:ARG:CG	2.22	0.53
1:J:127:PHE:HE2	1:J:184:LEU:HG	1.74	0.53
1:K:772:ASP:OD1	1:K:772:ASP:N	2.39	0.53
1:K:917:ARG:HH22	1:K:943:GLU:CD	2.10	0.53
1:L:138:GLN:HG2	1:L:139:THR:N	2.23	0.53
1:L:89:ASN:O	1:L:92:MET:HB2	2.07	0.53
1:M:950:GLN:HB3	1:M:1021:CME:HE3	1.89	0.53
1:N:178:ARG:HH11	1:N:178:ARG:HB2	1.72	0.53
1:N:416:GLU:CG	1:N:418:HIS:HB2	2.38	0.53
1:O:568:TRP:CE2	2:O:2001:2FG:H5	2.43	0.53
1:N:473:ARG:HD2	1:O:469:ASP:HB3	1.90	0.53
1:O:568:TRP:CD2	1:O:569:ASP:HB3	2.44	0.53
1:P:127:PHE:HE2	1:P:184:LEU:HG	1.74	0.53
1:P:608:PHE:O	1:P:611:ARG:N	2.38	0.53
1:P:685:LEU:HB3	1:P:686:PRO:HD2	1.90	0.53
1:A:950:GLN:HB3	1:A:1021:CME:HE3	1.89	0.53
1:A:131:GLU:HA	1:A:134:LEU:HB2	1.90	0.53
1:B:608:PHE:O	1:B:611:ARG:N	2.38	0.53
1:C:920:LEU:HB3	1:C:921:PRO:CD	2.36	0.53
1:D:1000:SER:HB2	1:D:1001:PRO:HD2	1.88	0.53
1:E:141:ILE:HG12	1:E:142:ILE:N	2.24	0.53
1:F:127:PHE:HE2	1:F:184:LEU:HG	1.74	0.53
1:F:568:TRP:CD2	1:F:569:ASP:HB3	2.44	0.53
1:G:138:GLN:HG2	1:G:139:THR:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:127:PHE:HE2	1:H:184:LEU:HG	1.74	0.53
1:H:568:TRP:CD2	1:H:569:ASP:HB3	2.44	0.53
1:H:942:ARG:HA	1:H:953:GLY:O	2.07	0.53
1:I:651:LEU:HD12	1:I:668:VAL:O	2.08	0.53
1:J:141:ILE:HG12	1:J:142:ILE:N	2.24	0.53
1:J:416:GLU:CG	1:J:418:HIS:HB2	2.38	0.53
1:J:651:LEU:HD12	1:J:668:VAL:O	2.09	0.53
1:L:568:TRP:CE2	2:L:2001:2FG:H5	2.43	0.53
1:M:533:LEU:HD23	1:M:533:LEU:C	2.28	0.53
1:N:568:TRP:CD2	1:N:569:ASP:HB3	2.44	0.53
1:O:138:GLN:HG2	1:O:139:THR:N	2.23	0.53
1:O:952:ARG:CG	1:O:952:ARG:HH11	2.22	0.53
1:A:920:LEU:HB3	1:A:921:PRO:CD	2.37	0.53
1:B:5:ASP:OD2	1:B:157:ARG:HA	2.08	0.53
1:C:127:PHE:HE2	1:C:184:LEU:HG	1.74	0.53
1:C:568:TRP:CD2	1:C:569:ASP:HB3	2.44	0.53
1:D:651:LEU:HD12	1:D:668:VAL:O	2.08	0.53
1:D:685:LEU:HB3	1:D:686:PRO:HD2	1.90	0.53
1:F:217:LYS:HG2	1:F:218:PRO:HD2	1.89	0.53
1:J:343:LEU:HD23	1:J:348:PRO:HA	1.90	0.53
1:L:568:TRP:CD2	1:L:569:ASP:HB3	2.44	0.53
1:N:127:PHE:HE2	1:N:184:LEU:HG	1.74	0.53
1:N:651:LEU:HD12	1:N:668:VAL:O	2.09	0.53
1:O:178:ARG:HB2	1:O:178:ARG:HH11	1.72	0.53
1:O:651:LEU:HD12	1:O:668:VAL:O	2.09	0.53
1:O:772:ASP:OD1	1:O:772:ASP:N	2.39	0.53
1:O:917:ARG:HH22	1:O:943:GLU:CD	2.10	0.53
1:O:950:GLN:HB3	1:O:1021:CME:HE3	1.89	0.53
1:P:568:TRP:CE2	2:P:2001:2FG:H5	2.43	0.53
1:A:568:TRP:CD2	1:A:569:ASP:HB3	2.44	0.53
1:A:678:GLN:O	1:A:679:LEU:HD23	2.07	0.53
1:B:568:TRP:CE2	2:B:2001:2FG:H5	2.43	0.53
1:B:568:TRP:CD2	1:B:569:ASP:HB3	2.44	0.53
1:B:568:TRP:HE1	1:B:604:ASN:ND2	2.05	0.53
1:C:211:ASP:OD1	1:C:211:ASP:N	2.40	0.53
1:C:227:VAL:HG12	1:C:228:ALA:N	2.24	0.53
1:C:651:LEU:HD12	1:C:668:VAL:O	2.09	0.53
1:D:131:GLU:HA	1:D:134:LEU:HB2	1.91	0.53
1:E:131:GLU:HA	1:E:134:LEU:HB2	1.91	0.53
1:E:211:ASP:OD1	1:E:211:ASP:N	2.40	0.53
1:G:952:ARG:HH11	1:G:952:ARG:CG	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:416:GLU:CG	1:H:418:HIS:HB2	2.38	0.53
1:I:701:VAL:HG22	1:I:714:ILE:HD12	1.91	0.53
1:I:942:ARG:HA	1:I:953:GLY:O	2.07	0.53
1:J:322:LEU:HD21	1:J:324:GLU:HA	1.91	0.53
1:J:425:ARG:HH22	1:K:287:ASP:CG	2.10	0.53
1:K:568:TRP:CD2	1:K:569:ASP:HB3	2.44	0.53
1:K:612:THR:HB	1:K:613:PRO:HD2	1.90	0.53
1:N:568:TRP:CE2	2:N:2001:2FG:H5	2.43	0.53
1:N:217:LYS:HG2	1:N:218:PRO:HD2	1.89	0.53
1:N:79:PRO:HG2	1:N:80:GLU:OE2	2.09	0.53
1:O:416:GLU:CG	1:O:418:HIS:HB2	2.38	0.53
1:P:869:ASP:OD2	1:P:1015:HIS:ND1	2.37	0.53
1:A:533:LEU:HD23	1:A:533:LEU:C	2.28	0.53
1:A:778:THR:HG23	1:A:779:PRO:HD2	1.91	0.53
1:B:322:LEU:HD21	1:B:324:GLU:HA	1.91	0.53
1:C:217:LYS:HG2	1:C:218:PRO:HD2	1.89	0.53
1:C:322:LEU:HD21	1:C:324:GLU:CA	2.38	0.53
1:C:952:ARG:HH11	1:C:952:ARG:CG	2.22	0.53
1:D:141:ILE:HG12	1:D:142:ILE:N	2.24	0.53
1:D:568:TRP:CD2	1:D:569:ASP:HB3	2.44	0.53
1:E:568:TRP:CE2	2:E:2001:2FG:H5	2.43	0.53
1:F:436:MET:HE1	1:F:467:ASN:HD22	1.72	0.53
1:F:559:TYR:HB2	1:F:562:LEU:HD12	1.91	0.53
1:G:178:ARG:HH11	1:G:178:ARG:HB2	1.72	0.53
1:G:322:LEU:HD21	1:G:324:GLU:HA	1.91	0.53
1:H:65:ALA:CB	1:H:66:PRO:HD2	2.33	0.53
1:I:285:TYR:CB	1:I:288:ARG:HG3	2.34	0.53
1:I:778:THR:HG23	1:I:779:PRO:HD2	1.91	0.53
1:I:79:PRO:HG2	1:I:80:GLU:OE2	2.09	0.53
1:K:778:THR:HG23	1:K:779:PRO:HD2	1.91	0.53
1:K:952:ARG:CG	1:K:952:ARG:HH11	2.22	0.53
1:L:869:ASP:OD2	1:L:1015:HIS:ND1	2.37	0.53
1:L:952:ARG:CG	1:L:952:ARG:HH11	2.22	0.53
1:N:559:TYR:HB2	1:N:562:LEU:HD12	1.91	0.53
1:O:778:THR:HG23	1:O:779:PRO:HD2	1.91	0.53
1:O:79:PRO:HG2	1:O:80:GLU:OE2	2.09	0.53
1:P:141:ILE:HG12	1:P:142:ILE:N	2.24	0.53
1:A:322:LEU:HD21	1:A:324:GLU:HA	1.91	0.53
1:A:559:TYR:HB2	1:A:562:LEU:HD12	1.91	0.53
1:A:701:VAL:HG22	1:A:714:ILE:HD12	1.91	0.53
1:A:425:ARG:NH2	1:D:287:ASP:CG	2.53	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:322:LEU:HD21	1:D:324:GLU:CA	2.38	0.53
1:D:608:PHE:O	1:D:611:ARG:N	2.38	0.53
1:D:701:VAL:HG22	1:D:714:ILE:HD12	1.91	0.53
1:E:127:PHE:HE2	1:E:184:LEU:HG	1.74	0.53
1:G:568:TRP:CD2	1:G:569:ASP:HB3	2.44	0.53
1:G:685:LEU:HB3	1:G:686:PRO:HD2	1.90	0.53
1:G:778:THR:HG23	1:G:779:PRO:HD2	1.91	0.53
1:I:948:PRO:O	1:I:1022:GLN:HA	2.09	0.53
1:I:60:PHE:HB3	1:I:84:VAL:HG21	1.91	0.53
1:J:227:VAL:HG12	1:J:228:ALA:N	2.24	0.53
1:J:685:LEU:HB3	1:J:686:PRO:HD2	1.90	0.53
1:J:917:ARG:HH22	1:J:943:GLU:CD	2.10	0.53
1:K:473:ARG:C	1:K:473:ARG:HD3	2.29	0.53
1:L:559:TYR:HB2	1:L:562:LEU:HD12	1.91	0.53
1:M:141:ILE:HG12	1:M:142:ILE:N	2.24	0.53
1:M:127:PHE:HE2	1:M:184:LEU:HG	1.74	0.53
1:M:685:LEU:HB3	1:M:686:PRO:HD2	1.90	0.53
1:N:917:ARG:HH22	1:N:943:GLU:CD	2.10	0.53
1:O:608:PHE:O	1:O:611:ARG:N	2.37	0.53
1:P:131:GLU:HA	1:P:134:LEU:HB2	1.91	0.53
1:P:285:TYR:CB	1:P:288:ARG:HG3	2.34	0.53
1:P:79:PRO:HG2	1:P:80:GLU:OE2	2.09	0.53
1:A:343:LEU:HD23	1:A:348:PRO:HA	1.90	0.53
1:B:473:ARG:HD3	1:B:473:ARG:C	2.29	0.53
1:B:559:TYR:HB2	1:B:562:LEU:HD12	1.91	0.53
1:B:778:THR:HG23	1:B:779:PRO:HD2	1.91	0.53
1:C:559:TYR:HB2	1:C:562:LEU:HD12	1.91	0.53
1:C:7:LEU:HD13	1:C:74:LEU:CD1	2.36	0.53
1:E:322:LEU:HD21	1:E:324:GLU:HA	1.91	0.53
1:E:533:LEU:HD23	1:E:533:LEU:C	2.28	0.53
1:F:131:GLU:HA	1:F:134:LEU:HB2	1.90	0.53
1:F:568:TRP:CE2	2:F:2001:2FG:H5	2.43	0.53
1:F:773:LYS:HB2	1:F:773:LYS:HZ1	1.73	0.53
1:G:822:LEU:HD12	1:G:823:LEU:H	1.74	0.53
1:H:948:PRO:O	1:H:1022:GLN:HA	2.09	0.53
1:H:131:GLU:HA	1:H:134:LEU:HB2	1.91	0.53
1:H:141:ILE:HG12	1:H:142:ILE:N	2.24	0.53
1:H:322:LEU:HD21	1:H:324:GLU:HA	1.91	0.53
1:H:651:LEU:HD12	1:H:668:VAL:O	2.09	0.53
1:H:79:PRO:HG2	1:H:80:GLU:OE2	2.09	0.53
1:I:568:TRP:CE2	2:I:2001:2FG:H5	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:395:HIS:ND1	1:I:396:PRO:HD2	2.22	0.53
1:I:568:TRP:HE1	1:I:604:ASN:ND2	2.05	0.53
1:I:685:LEU:HB3	1:I:686:PRO:HD2	1.90	0.53
1:J:568:TRP:CE2	2:J:2001:2FG:H5	2.43	0.53
1:J:595:THR:HG23	1:J:596:PRO:CA	2.39	0.53
1:J:701:VAL:HG22	1:J:714:ILE:HD12	1.91	0.53
1:L:127:PHE:HE2	1:L:184:LEU:HG	1.74	0.53
1:O:5:ASP:OD2	1:O:157:ARG:HA	2.08	0.53
1:O:322:LEU:HD21	1:O:324:GLU:HA	1.91	0.53
1:P:950:GLN:HB3	1:P:1021:CME:HE3	1.89	0.53
1:A:948:PRO:O	1:A:1022:GLN:HA	2.09	0.53
1:A:127:PHE:HE2	1:A:184:LEU:HG	1.74	0.53
1:D:473:ARG:HD3	1:D:473:ARG:C	2.29	0.53
1:E:568:TRP:CD2	1:E:569:ASP:HB3	2.44	0.53
1:E:685:LEU:HB3	1:E:686:PRO:HD2	1.90	0.53
1:E:952:ARG:CG	1:E:952:ARG:HH11	2.22	0.53
1:F:7:LEU:HD13	1:F:74:LEU:CD1	2.35	0.53
1:F:60:PHE:HB3	1:F:84:VAL:HG21	1.91	0.53
1:G:948:PRO:O	1:G:1022:GLN:HA	2.09	0.53
1:G:595:THR:HG23	1:G:596:PRO:CA	2.39	0.53
1:J:822:LEU:HD12	1:J:823:LEU:H	1.74	0.53
1:K:131:GLU:HA	1:K:134:LEU:HB2	1.90	0.53
1:K:322:LEU:HD21	1:K:324:GLU:HA	1.91	0.53
1:K:701:VAL:HG22	1:K:714:ILE:HD12	1.91	0.53
1:K:808:GLU:HA	1:K:808:GLU:OE1	2.09	0.53
1:L:948:PRO:O	1:L:1022:GLN:HA	2.09	0.53
1:L:612:THR:HB	1:L:613:PRO:HD2	1.90	0.53
1:M:322:LEU:HD21	1:M:324:GLU:HA	1.91	0.53
1:N:131:GLU:HA	1:N:134:LEU:HB2	1.90	0.53
1:O:948:PRO:O	1:O:1022:GLN:HA	2.09	0.53
1:O:595:THR:HG23	1:O:596:PRO:CA	2.39	0.53
1:O:685:LEU:HB3	1:O:686:PRO:HD2	1.90	0.53
1:B:141:ILE:HG12	1:B:142:ILE:N	2.24	0.52
1:B:416:GLU:CG	1:B:418:HIS:HB2	2.38	0.52
1:B:60:PHE:HB3	1:B:84:VAL:HG21	1.91	0.52
1:C:131:GLU:HA	1:C:134:LEU:HB2	1.90	0.52
1:C:141:ILE:HG12	1:C:142:ILE:N	2.24	0.52
1:C:612:THR:HB	1:C:613:PRO:HD2	1.90	0.52
1:C:808:GLU:OE1	1:C:808:GLU:HA	2.09	0.52
1:C:961:ARG:NH2	1:C:979:GLU:O	2.37	0.52
1:E:178:ARG:HH11	1:E:178:ARG:HB2	1.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:473:ARG:HD3	1:E:473:ARG:C	2.29	0.52
1:F:63:PHE:CB	1:F:64:PRO:HD2	2.25	0.52
1:F:651:LEU:HD12	1:F:668:VAL:O	2.09	0.52
1:F:701:VAL:HG22	1:F:714:ILE:HD12	1.91	0.52
1:G:5:ASP:OD2	1:G:157:ARG:HA	2.08	0.52
1:G:568:TRP:CE2	2:G:2001:2FG:H5	2.43	0.52
1:H:950:GLN:HB3	1:H:1021:CME:HE3	1.90	0.52
1:H:961:ARG:NH2	1:H:979:GLU:O	2.37	0.52
1:I:322:LEU:HD21	1:I:324:GLU:CA	2.38	0.52
1:J:952:ARG:HH11	1:J:952:ARG:CG	2.22	0.52
1:K:178:ARG:HH11	1:K:178:ARG:HB2	1.72	0.52
1:K:595:THR:HG23	1:K:596:PRO:CA	2.39	0.52
1:L:322:LEU:HD21	1:L:324:GLU:HA	1.91	0.52
1:L:416:GLU:CG	1:L:418:HIS:HB2	2.38	0.52
1:M:948:PRO:O	1:M:1022:GLN:HA	2.09	0.52
1:M:227:VAL:HG12	1:M:228:ALA:N	2.24	0.52
1:M:568:TRP:HE1	1:M:604:ASN:ND2	2.05	0.52
1:N:141:ILE:HG12	1:N:142:ILE:N	2.24	0.52
1:A:961:ARG:NH2	1:A:979:GLU:O	2.37	0.52
1:C:473:ARG:HD3	1:C:473:ARG:C	2.29	0.52
1:C:79:PRO:HG2	1:C:80:GLU:OE2	2.09	0.52
1:D:808:GLU:OE1	1:D:808:GLU:HA	2.09	0.52
1:D:847:LYS:HZ3	1:D:875:ASP:CG	2.12	0.52
1:E:469:ASP:HB3	1:H:473:ARG:HD2	1.91	0.52
1:I:5:ASP:OD2	1:I:157:ARG:HA	2.08	0.52
1:I:612:THR:HB	1:I:613:PRO:HD2	1.90	0.52
1:J:568:TRP:CD2	1:J:569:ASP:HB3	2.44	0.52
1:L:60:PHE:HB3	1:L:84:VAL:HG21	1.91	0.52
1:L:832:ASP:OD1	1:L:832:ASP:N	2.41	0.52
1:M:211:ASP:N	1:M:211:ASP:OD1	2.40	0.52
1:N:285:TYR:CB	1:N:288:ARG:HG3	2.34	0.52
1:N:60:PHE:HB3	1:N:84:VAL:HG21	1.91	0.52
1:O:127:PHE:HE2	1:O:184:LEU:HG	1.74	0.52
1:O:343:LEU:HD23	1:O:348:PRO:HA	1.90	0.52
1:A:79:PRO:HG2	1:A:80:GLU:OE2	2.09	0.52
1:B:948:PRO:O	1:B:1022:GLN:HA	2.09	0.52
1:B:227:VAL:HG12	1:B:228:ALA:N	2.23	0.52
1:B:651:LEU:HD12	1:B:668:VAL:O	2.09	0.52
1:C:685:LEU:HB3	1:C:686:PRO:HD2	1.90	0.52
1:C:78:LEU:N	1:C:78:LEU:HD23	2.25	0.52
1:F:285:TYR:CB	1:F:288:ARG:HG3	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:141:ILE:HG12	1:G:142:ILE:N	2.24	0.52
1:G:227:VAL:HG12	1:G:228:ALA:N	2.24	0.52
1:G:343:LEU:HD23	1:G:348:PRO:HA	1.90	0.52
1:H:559:TYR:HB2	1:H:562:LEU:HD12	1.91	0.52
1:H:952:ARG:HH11	1:H:952:ARG:CG	2.22	0.52
1:I:559:TYR:HB2	1:I:562:LEU:HD12	1.91	0.52
1:I:808:GLU:OE1	1:I:808:GLU:HA	2.09	0.52
1:K:138:GLN:N	1:K:217:LYS:O	2.33	0.52
1:L:950:GLN:HB3	1:L:1021:CME:HE3	1.90	0.52
1:L:211:ASP:N	1:L:211:ASP:OD1	2.40	0.52
1:M:127:PHE:N	1:M:127:PHE:CD2	2.78	0.52
1:M:473:ARG:C	1:M:473:ARG:HD3	2.29	0.52
1:N:701:VAL:HG22	1:N:714:ILE:HD12	1.91	0.52
1:C:138:GLN:HG2	1:C:139:THR:N	2.23	0.52
1:B:425:ARG:NH2	1:C:287:ASP:OD2	2.43	0.52
1:D:568:TRP:CE2	2:D:2001:2FG:H5	2.43	0.52
1:D:595:THR:HG23	1:D:596:PRO:CA	2.39	0.52
1:D:60:PHE:HB3	1:D:84:VAL:HG21	1.91	0.52
1:E:79:PRO:HG2	1:E:80:GLU:OE2	2.09	0.52
1:F:227:VAL:HG12	1:F:228:ALA:N	2.24	0.52
1:F:832:ASP:N	1:F:832:ASP:OD1	2.41	0.52
1:G:78:LEU:HD23	1:G:78:LEU:N	2.25	0.52
1:H:701:VAL:HG22	1:H:714:ILE:HD12	1.91	0.52
1:J:612:THR:HB	1:J:613:PRO:HD2	1.90	0.52
1:K:227:VAL:HG12	1:K:228:ALA:N	2.24	0.52
1:K:950:GLN:HB3	1:K:1021:CME:HE3	1.89	0.52
1:M:568:TRP:CD2	1:M:569:ASP:HB3	2.44	0.52
1:M:952:ARG:CG	1:M:952:ARG:HH11	2.22	0.52
1:N:227:VAL:HG12	1:N:228:ALA:N	2.24	0.52
1:N:832:ASP:OD1	1:N:832:ASP:N	2.41	0.52
1:N:282:ARG:HD3	1:O:420:MET:O	2.09	0.52
1:O:78:LEU:N	1:O:78:LEU:HD23	2.25	0.52
1:P:952:ARG:CG	1:P:952:ARG:HH11	2.22	0.52
1:A:568:TRP:CE2	2:A:2001:2FG:H5	2.43	0.52
1:A:473:ARG:C	1:A:473:ARG:HD3	2.29	0.52
1:A:867:THR:O	1:A:867:THR:HG22	2.10	0.52
1:A:952:ARG:HH11	1:A:952:ARG:CG	2.22	0.52
1:B:79:PRO:HG2	1:B:80:GLU:OE2	2.09	0.52
1:D:217:LYS:HG2	1:D:218:PRO:HD2	1.89	0.52
1:G:559:TYR:HB2	1:G:562:LEU:HD12	1.91	0.52
1:G:60:PHE:HB3	1:G:84:VAL:HG21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:808:GLU:HA	1:J:808:GLU:OE1	2.09	0.52
1:K:127:PHE:HE2	1:K:184:LEU:HG	1.74	0.52
1:N:847:LYS:HZ3	1:N:875:ASP:CG	2.12	0.52
1:O:436:MET:HE1	1:O:467:ASN:HD22	1.75	0.52
1:O:60:PHE:HB3	1:O:84:VAL:HG21	1.91	0.52
1:P:322:LEU:HD21	1:P:324:GLU:HA	1.91	0.52
1:P:568:TRP:HE1	1:P:604:ASN:ND2	2.05	0.52
1:B:127:PHE:HE2	1:B:184:LEU:HG	1.74	0.52
1:D:322:LEU:HD21	1:D:324:GLU:HA	1.91	0.52
1:E:948:PRO:O	1:E:1022:GLN:HA	2.09	0.52
1:F:138:GLN:HG2	1:F:139:THR:N	2.22	0.52
1:F:322:LEU:HD21	1:F:324:GLU:HA	1.91	0.52
1:H:126:THR:HA	1:H:182:ASN:O	2.10	0.52
1:E:282:ARG:HD3	1:H:420:MET:O	2.09	0.52
1:J:127:PHE:CD2	1:J:127:PHE:N	2.78	0.52
1:J:131:GLU:HA	1:J:134:LEU:HB2	1.90	0.52
1:J:473:ARG:HD3	1:J:473:ARG:C	2.29	0.52
1:J:832:ASP:N	1:J:832:ASP:OD1	2.41	0.52
1:M:568:TRP:CE2	2:M:2001:2FG:H5	2.43	0.52
1:M:651:LEU:HD12	1:M:668:VAL:O	2.09	0.52
1:N:948:PRO:O	1:N:1022:GLN:HA	2.09	0.52
1:O:126:THR:HA	1:O:182:ASN:O	2.10	0.52
1:O:559:TYR:HB2	1:O:562:LEU:HD12	1.91	0.52
1:O:832:ASP:OD1	1:O:832:ASP:N	2.41	0.52
1:P:559:TYR:HB2	1:P:562:LEU:HD12	1.91	0.52
1:P:568:TRP:CD2	1:P:569:ASP:HB3	2.44	0.52
1:P:777:LEU:CD2	1:P:889:ALA:HA	2.39	0.52
1:A:126:THR:HA	1:A:182:ASN:O	2.10	0.52
1:A:30:HIS:CE1	1:A:33:PHE:CD1	2.98	0.52
1:B:131:GLU:HA	1:B:134:LEU:HB2	1.91	0.52
1:B:343:LEU:HD23	1:B:348:PRO:HA	1.90	0.52
1:C:948:PRO:O	1:C:1022:GLN:HA	2.09	0.52
1:C:343:LEU:HD23	1:C:348:PRO:HA	1.90	0.52
1:E:126:THR:HA	1:E:182:ASN:O	2.10	0.52
1:E:608:PHE:O	1:E:611:ARG:N	2.38	0.52
1:E:78:LEU:HD23	1:E:78:LEU:N	2.25	0.52
1:F:127:PHE:N	1:F:127:PHE:CD2	2.78	0.52
1:F:568:TRP:HE1	1:F:604:ASN:ND2	2.05	0.52
1:G:30:HIS:CE1	1:G:33:PHE:CD1	2.98	0.52
1:H:138:GLN:HG2	1:H:139:THR:N	2.23	0.52
1:H:568:TRP:HE1	1:H:604:ASN:ND2	2.05	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:778:THR:HG23	1:H:779:PRO:HD2	1.91	0.52
1:H:777:LEU:CD2	1:H:889:ALA:HA	2.39	0.52
1:I:227:VAL:HG12	1:I:228:ALA:N	2.24	0.52
1:I:568:TRP:CD2	1:I:569:ASP:HB3	2.44	0.52
1:J:948:PRO:O	1:J:1022:GLN:HA	2.09	0.52
1:K:948:PRO:O	1:K:1022:GLN:HA	2.09	0.52
1:K:30:HIS:CE1	1:K:33:PHE:CD1	2.98	0.52
1:L:285:TYR:CB	1:L:288:ARG:HG3	2.33	0.52
1:L:651:LEU:HD12	1:L:668:VAL:O	2.09	0.52
1:N:127:PHE:CD2	1:N:127:PHE:N	2.78	0.52
1:N:608:PHE:O	1:N:611:ARG:N	2.38	0.52
1:O:867:THR:HG22	1:O:867:THR:O	2.10	0.52
1:P:822:LEU:HD12	1:P:823:LEU:H	1.75	0.52
1:A:433:LEU:N	1:A:434:PRO:CD	2.73	0.52
1:A:651:LEU:HD12	1:A:668:VAL:O	2.09	0.52
1:C:778:THR:HG23	1:C:779:PRO:HD2	1.91	0.52
1:D:127:PHE:HE2	1:D:184:LEU:HG	1.74	0.52
1:D:78:LEU:N	1:D:78:LEU:HD23	2.25	0.52
1:E:127:PHE:CD2	1:E:127:PHE:N	2.78	0.52
1:G:416:GLU:CG	1:G:418:HIS:HB2	2.38	0.52
1:G:608:PHE:O	1:G:611:ARG:N	2.38	0.52
1:G:79:PRO:HG2	1:G:80:GLU:OE2	2.09	0.52
1:J:778:THR:HG23	1:J:779:PRO:HD2	1.91	0.52
1:J:79:PRO:HG2	1:J:80:GLU:OE2	2.09	0.52
1:K:433:LEU:N	1:K:434:PRO:CD	2.73	0.52
1:K:651:LEU:HD12	1:K:668:VAL:O	2.09	0.52
1:L:126:THR:HA	1:L:182:ASN:O	2.10	0.52
1:L:227:VAL:HG12	1:L:228:ALA:N	2.24	0.52
1:L:287:ASP:N	1:L:287:ASP:OD1	2.30	0.52
1:M:772:ASP:N	1:M:772:ASP:OD1	2.39	0.52
1:N:473:ARG:HD3	1:N:473:ARG:C	2.29	0.52
1:O:30:HIS:CE1	1:O:33:PHE:CD1	2.98	0.52
1:P:948:PRO:O	1:P:1022:GLN:HA	2.09	0.52
1:P:701:VAL:HG22	1:P:714:ILE:HD12	1.91	0.52
1:B:30:HIS:CE1	1:B:33:PHE:CD1	2.98	0.52
1:B:822:LEU:HD12	1:B:823:LEU:H	1.75	0.52
1:B:777:LEU:CD2	1:B:889:ALA:HA	2.39	0.52
1:C:701:VAL:HG22	1:C:714:ILE:HD12	1.91	0.52
1:D:127:PHE:CD2	1:D:127:PHE:N	2.78	0.52
1:D:79:PRO:HG2	1:D:80:GLU:OE2	2.09	0.52
1:E:961:ARG:NH2	1:E:979:GLU:O	2.37	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:261:TRP:CZ3	1:F:266:GLN:HB2	2.45	0.52
1:G:131:GLU:HA	1:G:134:LEU:HB2	1.90	0.52
1:H:473:ARG:C	1:H:473:ARG:HD3	2.30	0.52
1:H:808:GLU:HA	1:H:808:GLU:OE1	2.09	0.52
1:I:138:GLN:HG2	1:I:139:THR:N	2.23	0.52
1:I:30:HIS:CE1	1:I:33:PHE:CD1	2.98	0.52
1:I:416:GLU:CG	1:I:418:HIS:HB2	2.38	0.52
1:I:822:LEU:HD12	1:I:823:LEU:H	1.74	0.52
1:K:141:ILE:HG12	1:K:142:ILE:N	2.24	0.52
1:K:559:TYR:HB2	1:K:562:LEU:HD12	1.91	0.52
1:K:60:PHE:HB3	1:K:84:VAL:HG21	1.91	0.52
1:L:141:ILE:HG12	1:L:142:ILE:N	2.24	0.52
1:L:701:VAL:HG22	1:L:714:ILE:HD12	1.91	0.52
1:L:867:THR:HG22	1:L:867:THR:O	2.10	0.52
1:M:126:THR:HA	1:M:182:ASN:O	2.10	0.52
1:M:78:LEU:HD23	1:M:78:LEU:N	2.25	0.52
1:M:79:PRO:HG2	1:M:80:GLU:OE2	2.09	0.52
1:N:322:LEU:HD21	1:N:324:GLU:HA	1.91	0.52
1:N:595:THR:HG23	1:N:596:PRO:CA	2.39	0.52
1:N:685:LEU:HB3	1:N:686:PRO:HD2	1.90	0.52
1:O:131:GLU:HA	1:O:134:LEU:HB2	1.90	0.52
1:O:261:TRP:CZ3	1:O:266:GLN:HB2	2.45	0.52
1:P:473:ARG:HD3	1:P:473:ARG:C	2.29	0.52
1:P:808:GLU:OE1	1:P:808:GLU:HA	2.09	0.52
1:P:832:ASP:N	1:P:832:ASP:OD1	2.41	0.52
1:A:138:GLN:N	1:A:217:LYS:O	2.33	0.52
1:A:822:LEU:HD12	1:A:823:LEU:H	1.74	0.52
1:D:261:TRP:CZ3	1:D:266:GLN:HB2	2.45	0.52
1:D:559:TYR:HB2	1:D:562:LEU:HD12	1.91	0.52
1:E:30:HIS:CE1	1:E:33:PHE:CD1	2.98	0.52
1:E:778:THR:HG23	1:E:779:PRO:HD2	1.91	0.52
1:E:832:ASP:N	1:E:832:ASP:OD1	2.41	0.52
1:F:423:MET:HB2	1:G:282:ARG:HG3	1.91	0.52
1:F:473:ARG:HD3	1:F:473:ARG:C	2.29	0.52
1:F:685:LEU:HB3	1:F:686:PRO:HD2	1.90	0.52
1:I:608:PHE:O	1:I:611:ARG:N	2.37	0.52
1:I:867:THR:O	1:I:867:THR:HG22	2.10	0.52
1:J:433:LEU:N	1:J:434:PRO:CD	2.73	0.52
1:K:7:LEU:HD13	1:K:74:LEU:CD1	2.35	0.52
1:L:131:GLU:HA	1:L:134:LEU:HB2	1.90	0.52
1:L:772:ASP:N	1:L:772:ASP:OD1	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:79:PRO:HG2	1:L:80:GLU:OE2	2.09	0.52
1:M:778:THR:HG23	1:M:779:PRO:HD2	1.91	0.52
1:M:869:ASP:OD2	1:M:1015:HIS:ND1	2.37	0.52
1:O:701:VAL:HG22	1:O:714:ILE:HD12	1.91	0.52
1:B:469:ASP:HB3	1:C:473:ARG:HD2	1.91	0.51
1:B:701:VAL:HG22	1:B:714:ILE:HD12	1.91	0.51
1:D:948:PRO:O	1:D:1022:GLN:HA	2.09	0.51
1:D:126:THR:HA	1:D:182:ASN:O	2.10	0.51
1:E:138:GLN:HG2	1:E:139:THR:N	2.22	0.51
1:E:433:LEU:N	1:E:434:PRO:CD	2.73	0.51
1:F:948:PRO:O	1:F:1022:GLN:HA	2.09	0.51
1:F:79:PRO:HG2	1:F:80:GLU:OE2	2.09	0.51
1:G:127:PHE:HE2	1:G:184:LEU:HG	1.74	0.51
1:G:261:TRP:CZ3	1:G:266:GLN:HB2	2.45	0.51
1:G:701:VAL:HG22	1:G:714:ILE:HD12	1.91	0.51
1:I:126:THR:HA	1:I:182:ASN:O	2.10	0.51
1:I:595:THR:HG23	1:I:596:PRO:CA	2.39	0.51
1:J:559:TYR:HB2	1:J:562:LEU:HD12	1.91	0.51
1:J:60:PHE:HB3	1:J:84:VAL:HG21	1.91	0.51
1:J:867:THR:O	1:J:867:THR:HG22	2.10	0.51
1:M:30:HIS:CE1	1:M:33:PHE:CD1	2.98	0.51
1:M:559:TYR:HB2	1:M:562:LEU:HD12	1.91	0.51
1:M:595:THR:HG23	1:M:596:PRO:CA	2.39	0.51
1:M:867:THR:HG22	1:M:867:THR:O	2.10	0.51
1:N:261:TRP:CZ3	1:N:266:GLN:HB2	2.45	0.51
1:N:343:LEU:HD23	1:N:348:PRO:HA	1.90	0.51
1:O:7:LEU:HD13	1:O:74:LEU:CD1	2.36	0.51
1:P:778:THR:HG23	1:P:779:PRO:HD2	1.91	0.51
1:P:60:PHE:HB3	1:P:84:VAL:HG21	1.91	0.51
1:B:127:PHE:N	1:B:127:PHE:CD2	2.78	0.51
1:B:679:LEU:HD23	1:B:679:LEU:N	2.24	0.51
1:C:261:TRP:CZ3	1:C:266:GLN:HB2	2.45	0.51
1:C:60:PHE:HB3	1:C:84:VAL:HG21	1.91	0.51
1:D:66:PRO:HB3	1:D:187:MET:HE1	1.93	0.51
1:E:559:TYR:HB2	1:E:562:LEU:HD12	1.91	0.51
1:E:65:ALA:CB	1:E:66:PRO:HD2	2.33	0.51
1:E:701:VAL:HG22	1:E:714:ILE:HD12	1.91	0.51
1:F:141:ILE:HG12	1:F:142:ILE:N	2.24	0.51
1:F:30:HIS:CE1	1:F:33:PHE:CD1	2.98	0.51
1:F:343:LEU:HD23	1:F:348:PRO:HA	1.90	0.51
1:F:777:LEU:CD2	1:F:889:ALA:HA	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:822:LEU:HD12	1:H:823:LEU:H	1.74	0.51
1:H:60:PHE:HB3	1:H:84:VAL:HG21	1.91	0.51
1:I:141:ILE:HG12	1:I:142:ILE:N	2.24	0.51
1:I:433:LEU:N	1:I:434:PRO:CD	2.73	0.51
1:I:856:TYR:CD2	1:I:864:MET:HE2	2.45	0.51
1:K:127:PHE:N	1:K:127:PHE:CD2	2.78	0.51
1:K:79:PRO:HG2	1:K:80:GLU:OE2	2.09	0.51
1:L:473:ARG:HD3	1:L:473:ARG:C	2.29	0.51
1:L:595:THR:HG23	1:L:596:PRO:CA	2.39	0.51
1:M:679:LEU:N	1:M:679:LEU:HD23	2.25	0.51
1:N:126:THR:HA	1:N:182:ASN:O	2.10	0.51
1:P:662:PRO:O	1:P:663:LEU:HD23	2.11	0.51
1:A:60:PHE:HB3	1:A:84:VAL:HG21	1.91	0.51
1:A:713:HIS:C	1:A:714:ILE:HD13	2.31	0.51
1:C:30:HIS:CE1	1:C:33:PHE:CD1	2.98	0.51
1:D:433:LEU:N	1:D:434:PRO:CD	2.73	0.51
1:D:832:ASP:N	1:D:832:ASP:OD1	2.41	0.51
1:E:60:PHE:HB3	1:E:84:VAL:HG21	1.91	0.51
1:F:608:PHE:O	1:F:611:ARG:N	2.38	0.51
1:F:78:LEU:N	1:F:78:LEU:HD23	2.25	0.51
1:G:473:ARG:HD3	1:G:473:ARG:C	2.29	0.51
1:H:211:ASP:N	1:H:211:ASP:OD1	2.40	0.51
1:H:662:PRO:O	1:H:663:LEU:HD23	2.11	0.51
1:I:127:PHE:CD2	1:I:127:PHE:N	2.78	0.51
1:I:127:PHE:HE2	1:I:184:LEU:HG	1.74	0.51
1:I:473:ARG:HD3	1:I:473:ARG:C	2.29	0.51
1:J:713:HIS:C	1:J:714:ILE:HD13	2.31	0.51
1:M:433:LEU:N	1:M:434:PRO:CD	2.73	0.51
1:M:713:HIS:C	1:M:714:ILE:HD13	2.31	0.51
1:M:822:LEU:HD12	1:M:823:LEU:H	1.74	0.51
1:N:30:HIS:CE1	1:N:33:PHE:CD1	2.98	0.51
1:N:867:THR:HG22	1:N:867:THR:O	2.10	0.51
1:O:227:VAL:HG12	1:O:228:ALA:N	2.24	0.51
1:N:282:ARG:HG3	1:O:423:MET:HB2	1.92	0.51
1:A:141:ILE:HG12	1:A:142:ILE:N	2.24	0.51
1:B:261:TRP:CZ3	1:B:266:GLN:HB2	2.45	0.51
1:C:867:THR:O	1:C:867:THR:HG22	2.10	0.51
1:F:778:THR:HG23	1:F:779:PRO:HD2	1.91	0.51
1:F:961:ARG:NH2	1:F:979:GLU:O	2.37	0.51
1:G:713:HIS:C	1:G:714:ILE:HD13	2.31	0.51
1:G:79:PRO:HD2	1:G:80:GLU:OE2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:469:ASP:HB3	1:K:473:ARG:HD2	1.93	0.51
1:M:701:VAL:HG22	1:M:714:ILE:HD12	1.91	0.51
1:O:822:LEU:HD12	1:O:823:LEU:H	1.74	0.51
1:P:7:LEU:HD13	1:P:74:LEU:CD1	2.35	0.51
1:A:808:GLU:HA	1:A:808:GLU:OE1	2.09	0.51
1:B:126:THR:HA	1:B:182:ASN:O	2.10	0.51
1:B:79:PRO:HD2	1:B:80:GLU:OE2	2.11	0.51
1:C:178:ARG:HH11	1:C:178:ARG:HB2	1.72	0.51
1:C:285:TYR:CB	1:C:288:ARG:HG3	2.34	0.51
1:C:322:LEU:HD21	1:C:324:GLU:HA	1.91	0.51
1:C:436:MET:HE1	1:C:467:ASN:HD22	1.72	0.51
1:C:772:ASP:OD1	1:C:772:ASP:N	2.39	0.51
1:E:261:TRP:CZ3	1:E:266:GLN:HB2	2.45	0.51
1:F:126:THR:HA	1:F:182:ASN:O	2.10	0.51
1:H:713:HIS:C	1:H:714:ILE:HD13	2.31	0.51
1:H:867:THR:O	1:H:867:THR:HG22	2.10	0.51
1:M:961:ARG:NH2	1:M:979:GLU:O	2.37	0.51
1:N:778:THR:HG23	1:N:779:PRO:HD2	1.91	0.51
1:N:79:PRO:HD2	1:N:80:GLU:OE2	2.11	0.51
1:O:141:ILE:HG12	1:O:142:ILE:N	2.24	0.51
1:O:568:TRP:HE1	1:O:604:ASN:ND2	2.05	0.51
1:P:261:TRP:CZ3	1:P:266:GLN:HB2	2.45	0.51
1:A:285:TYR:CB	1:A:288:ARG:HG3	2.34	0.51
1:B:211:ASP:OD1	1:B:211:ASP:N	2.40	0.51
1:B:433:LEU:N	1:B:434:PRO:CD	2.73	0.51
1:B:713:HIS:C	1:B:714:ILE:HD13	2.31	0.51
1:C:79:PRO:HD2	1:C:80:GLU:OE2	2.11	0.51
1:D:778:THR:HG23	1:D:779:PRO:HD2	1.91	0.51
1:E:595:THR:HG23	1:E:596:PRO:CA	2.39	0.51
1:E:662:PRO:O	1:E:663:LEU:HD23	2.11	0.51
1:E:772:ASP:OD1	1:E:772:ASP:N	2.39	0.51
1:E:867:THR:O	1:E:867:THR:HG22	2.10	0.51
1:F:595:THR:HG23	1:F:596:PRO:CA	2.39	0.51
1:F:772:ASP:OD1	1:F:772:ASP:N	2.39	0.51
1:I:662:PRO:O	1:I:663:LEU:HD23	2.11	0.51
1:K:662:PRO:O	1:K:663:LEU:HD23	2.11	0.51
1:K:713:HIS:C	1:K:714:ILE:HD13	2.31	0.51
1:M:138:GLN:HG2	1:M:139:THR:N	2.23	0.51
1:M:65:ALA:CB	1:M:66:PRO:HD2	2.33	0.51
1:P:595:THR:HG23	1:P:596:PRO:CA	2.39	0.51
1:A:79:PRO:HD2	1:A:80:GLU:OE2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:78:LEU:N	1:B:78:LEU:HD23	2.25	0.51
1:H:433:LEU:N	1:H:434:PRO:CD	2.73	0.51
1:I:772:ASP:OD1	1:I:772:ASP:N	2.39	0.51
1:I:78:LEU:HD23	1:I:78:LEU:N	2.25	0.51
1:I:79:PRO:HD2	1:I:80:GLU:OE2	2.11	0.51
1:J:282:ARG:HD3	1:K:420:MET:O	2.11	0.51
1:J:869:ASP:OD2	1:J:1015:HIS:ND1	2.37	0.51
1:L:127:PHE:CD2	1:L:127:PHE:N	2.78	0.51
1:L:261:TRP:CZ3	1:L:266:GLN:HB2	2.46	0.51
1:L:433:LEU:N	1:L:434:PRO:CD	2.73	0.51
1:L:778:THR:HG23	1:L:779:PRO:HD2	1.91	0.51
1:N:713:HIS:C	1:N:714:ILE:HD13	2.31	0.51
1:O:127:PHE:CD2	1:O:127:PHE:N	2.78	0.51
1:A:211:ASP:OD1	1:A:211:ASP:N	2.40	0.51
1:A:282:ARG:NH1	1:D:419:GLY:O	2.44	0.51
1:A:78:LEU:N	1:A:78:LEU:HD23	2.24	0.51
1:B:832:ASP:N	1:B:832:ASP:OD1	2.41	0.51
1:C:126:THR:HA	1:C:182:ASN:O	2.10	0.51
1:C:433:LEU:N	1:C:434:PRO:CD	2.73	0.51
1:E:50:GLN:O	1:E:215:LEU:HA	2.11	0.51
1:F:713:HIS:C	1:F:714:ILE:HD13	2.31	0.51
1:F:79:PRO:HD2	1:F:80:GLU:OE2	2.11	0.51
1:F:856:TYR:HD2	1:F:864:MET:HE2	1.75	0.51
1:G:127:PHE:N	1:G:127:PHE:CD2	2.78	0.51
1:G:126:THR:HA	1:G:182:ASN:O	2.10	0.51
1:G:257:THR:HB	1:G:314:GLU:HG3	1.93	0.51
1:I:322:LEU:HD21	1:I:324:GLU:HA	1.91	0.51
1:M:60:PHE:HB3	1:M:84:VAL:HG21	1.91	0.51
1:N:50:GLN:O	1:N:215:LEU:HA	2.11	0.51
1:N:777:LEU:CD2	1:N:889:ALA:HA	2.39	0.51
1:O:257:THR:HB	1:O:314:GLU:HG3	1.93	0.51
1:A:261:TRP:CZ3	1:A:266:GLN:HB2	2.45	0.51
1:A:662:PRO:O	1:A:663:LEU:HD23	2.11	0.51
1:C:500:CYS:HA	1:C:534:ILE:O	2.11	0.51
1:C:822:LEU:HD12	1:C:823:LEU:H	1.75	0.51
1:E:4:THR:CA	1:E:9:VAL:HG11	2.41	0.51
1:G:4:THR:CA	1:G:9:VAL:HG11	2.41	0.51
1:G:961:ARG:NH2	1:G:979:GLU:O	2.37	0.51
1:H:138:GLN:N	1:H:217:LYS:O	2.33	0.51
1:H:79:PRO:HD2	1:H:80:GLU:OE2	2.11	0.51
1:I:261:TRP:CZ3	1:I:266:GLN:HB2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:78:LEU:N	1:J:78:LEU:HD23	2.25	0.51
1:K:822:LEU:HD12	1:K:823:LEU:H	1.74	0.51
1:L:30:HIS:CE1	1:L:33:PHE:CD1	2.98	0.51
1:L:856:TYR:HD2	1:L:864:MET:HE2	1.76	0.51
1:M:469:ASP:HB3	1:P:473:ARG:HD2	1.93	0.51
1:M:662:PRO:O	1:M:663:LEU:HD23	2.11	0.51
1:M:4:THR:CA	1:M:9:VAL:HG11	2.41	0.51
1:N:500:CYS:HA	1:N:534:ILE:O	2.11	0.51
1:N:662:PRO:O	1:N:663:LEU:HD23	2.11	0.51
1:P:127:PHE:CD2	1:P:127:PHE:N	2.78	0.51
1:P:79:PRO:HD2	1:P:80:GLU:OE2	2.11	0.51
1:A:777:LEU:CD2	1:A:889:ALA:HA	2.39	0.51
1:A:4:THR:CA	1:A:9:VAL:HG11	2.41	0.51
1:B:138:GLN:N	1:B:217:LYS:O	2.33	0.51
1:B:4:THR:CA	1:B:9:VAL:HG11	2.41	0.51
1:C:257:THR:HB	1:C:314:GLU:HG3	1.93	0.51
1:C:568:TRP:HE1	1:C:604:ASN:ND2	2.05	0.51
1:D:257:THR:HB	1:D:314:GLU:HG3	1.93	0.51
1:D:568:TRP:HE1	1:D:604:ASN:ND2	2.05	0.51
1:D:763:GLY:HA3	1:D:822:LEU:HD22	1.93	0.51
1:F:73:TRP:CH2	1:F:185:ALA:HB1	2.46	0.51
1:F:85:VAL:HG12	1:F:86:VAL:N	2.26	0.51
1:G:433:LEU:N	1:G:434:PRO:CD	2.73	0.51
1:H:30:HIS:CE1	1:H:33:PHE:CD1	2.98	0.51
1:H:595:THR:HG23	1:H:596:PRO:CA	2.39	0.51
1:H:679:LEU:N	1:H:679:LEU:HD23	2.24	0.51
1:H:78:LEU:HD23	1:H:78:LEU:N	2.25	0.51
1:J:261:TRP:CZ3	1:J:266:GLN:HB2	2.45	0.51
1:J:30:HIS:CE1	1:J:33:PHE:CD1	2.98	0.51
1:J:662:PRO:O	1:J:663:LEU:HD23	2.11	0.51
1:K:138:GLN:HG2	1:K:139:THR:N	2.23	0.51
1:M:73:TRP:CH2	1:M:185:ALA:HB1	2.46	0.51
1:O:433:LEU:N	1:O:434:PRO:CD	2.73	0.51
1:O:473:ARG:HD3	1:O:473:ARG:C	2.29	0.51
1:O:961:ARG:NH2	1:O:979:GLU:O	2.37	0.51
1:P:500:CYS:HA	1:P:534:ILE:O	2.11	0.51
1:P:78:LEU:HD23	1:P:78:LEU:N	2.25	0.51
1:C:73:TRP:CH2	1:C:185:ALA:HB1	2.46	0.50
1:D:867:THR:HG22	1:D:867:THR:O	2.10	0.50
1:E:73:TRP:CH2	1:E:185:ALA:HB1	2.46	0.50
1:F:570:TRP:CD1	1:F:571:VAL:HG22	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:129:VAL:CG2	1:H:182:ASN:ND2	2.75	0.50
1:H:763:GLY:HA3	1:H:822:LEU:HD22	1.93	0.50
1:I:473:ARG:HD2	1:L:469:ASP:HB3	1.93	0.50
1:J:126:THR:HA	1:J:182:ASN:O	2.10	0.50
1:J:777:LEU:HD21	1:J:889:ALA:CA	2.40	0.50
1:J:856:TYR:HD2	1:J:864:MET:HE2	1.76	0.50
1:J:4:THR:CA	1:J:9:VAL:HG11	2.41	0.50
1:K:126:THR:HA	1:K:182:ASN:O	2.10	0.50
1:K:257:THR:HB	1:K:314:GLU:HG3	1.93	0.50
1:K:50:GLN:O	1:K:215:LEU:HA	2.11	0.50
1:K:568:TRP:HE1	1:K:604:ASN:ND2	2.05	0.50
1:K:867:THR:O	1:K:867:THR:HG22	2.10	0.50
1:N:433:LEU:N	1:N:434:PRO:CD	2.73	0.50
1:N:869:ASP:OD2	1:N:1015:HIS:ND1	2.37	0.50
1:N:4:THR:CA	1:N:9:VAL:HG11	2.41	0.50
1:O:73:TRP:CH2	1:O:185:ALA:HB1	2.46	0.50
1:P:129:VAL:CG2	1:P:182:ASN:ND2	2.75	0.50
1:P:570:TRP:CD1	1:P:571:VAL:HG22	2.46	0.50
1:P:763:GLY:HA3	1:P:822:LEU:HD22	1.93	0.50
1:P:867:THR:O	1:P:867:THR:HG22	2.10	0.50
1:A:772:ASP:OD1	1:A:772:ASP:N	2.39	0.50
1:B:257:THR:HB	1:B:314:GLU:HG3	1.93	0.50
1:B:500:CYS:HA	1:B:534:ILE:O	2.11	0.50
1:B:50:GLN:O	1:B:215:LEU:HA	2.11	0.50
1:B:869:ASP:OD2	1:B:1015:HIS:ND1	2.37	0.50
1:D:662:PRO:O	1:D:663:LEU:HD23	2.11	0.50
1:F:433:LEU:N	1:F:434:PRO:CD	2.73	0.50
1:F:808:GLU:OE1	1:F:808:GLU:HA	2.09	0.50
1:F:282:ARG:HG3	1:G:423:MET:HB2	1.93	0.50
1:H:570:TRP:CD1	1:H:571:VAL:HG22	2.46	0.50
1:I:50:GLN:O	1:I:215:LEU:HA	2.11	0.50
1:I:500:CYS:HA	1:I:534:ILE:O	2.11	0.50
1:K:79:PRO:HD2	1:K:80:GLU:OE2	2.11	0.50
1:L:4:THR:CA	1:L:9:VAL:HG11	2.41	0.50
1:M:473:ARG:HD2	1:P:469:ASP:HB3	1.93	0.50
1:N:808:GLU:OE1	1:N:808:GLU:HA	2.09	0.50
1:O:662:PRO:O	1:O:663:LEU:HD23	2.11	0.50
1:O:713:HIS:C	1:O:714:ILE:HD13	2.31	0.50
1:O:79:PRO:HD2	1:O:80:GLU:OE2	2.11	0.50
1:P:126:THR:HA	1:P:182:ASN:O	2.10	0.50
1:P:30:HIS:CE1	1:P:33:PHE:CD1	2.98	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:500:CYS:HA	1:A:534:ILE:O	2.11	0.50
1:B:777:LEU:HD21	1:B:889:ALA:CA	2.40	0.50
1:C:129:VAL:CG2	1:C:182:ASN:ND2	2.75	0.50
1:D:1020:TRP:CD1	1:D:1021:CME:N	2.80	0.50
1:D:30:HIS:CE1	1:D:33:PHE:CD1	2.98	0.50
1:D:79:PRO:HD2	1:D:80:GLU:OE2	2.11	0.50
1:E:570:TRP:CD1	1:E:571:VAL:HG22	2.46	0.50
1:G:129:VAL:CG2	1:G:182:ASN:ND2	2.75	0.50
1:H:73:TRP:CH2	1:H:185:ALA:HB1	2.47	0.50
1:H:832:ASP:OD1	1:H:832:ASP:N	2.41	0.50
1:I:713:HIS:C	1:I:714:ILE:HD13	2.31	0.50
1:I:85:VAL:HG12	1:I:86:VAL:N	2.27	0.50
1:I:869:ASP:OD2	1:I:1015:HIS:ND1	2.37	0.50
1:J:763:GLY:HA3	1:J:822:LEU:HD22	1.93	0.50
1:K:129:VAL:CG2	1:K:182:ASN:ND2	2.75	0.50
1:K:773:LYS:HZ2	1:K:773:LYS:HB2	1.75	0.50
1:L:570:TRP:CD1	1:L:571:VAL:HG22	2.46	0.50
1:L:78:LEU:N	1:L:78:LEU:HD23	2.25	0.50
1:L:85:VAL:HG12	1:L:86:VAL:N	2.26	0.50
1:M:129:VAL:CG2	1:M:182:ASN:ND2	2.75	0.50
1:M:66:PRO:HB3	1:M:187:MET:HE1	1.93	0.50
1:O:129:VAL:CG2	1:O:182:ASN:ND2	2.75	0.50
1:P:1020:TRP:CD1	1:P:1021:CME:N	2.80	0.50
1:A:127:PHE:CD2	1:A:127:PHE:N	2.78	0.50
1:A:763:GLY:HA3	1:A:822:LEU:HD22	1.93	0.50
1:B:85:VAL:HG12	1:B:86:VAL:N	2.26	0.50
1:B:856:TYR:HD2	1:B:864:MET:HE2	1.76	0.50
1:C:138:GLN:N	1:C:217:LYS:O	2.33	0.50
1:C:43:ARG:HH11	1:C:43:ARG:CG	2.13	0.50
1:A:419:GLY:HA2	1:D:282:ARG:NH1	2.26	0.50
1:F:129:VAL:CG2	1:F:182:ASN:ND2	2.75	0.50
1:I:167:LEU:HB3	1:I:168:PRO:HD2	1.94	0.50
1:K:261:TRP:CZ3	1:K:266:GLN:HB2	2.45	0.50
1:K:85:VAL:HG12	1:K:86:VAL:N	2.26	0.50
1:L:500:CYS:HA	1:L:534:ILE:O	2.11	0.50
1:N:167:LEU:HB3	1:N:168:PRO:HD2	1.94	0.50
1:N:570:TRP:CD1	1:N:571:VAL:HG22	2.46	0.50
1:O:4:THR:CA	1:O:9:VAL:HG11	2.41	0.50
1:P:433:LEU:N	1:P:434:PRO:CD	2.73	0.50
1:P:50:GLN:O	1:P:215:LEU:HA	2.11	0.50
1:A:257:THR:HB	1:A:314:GLU:HG3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:568:TRP:HE1	1:A:604:ASN:ND2	2.05	0.50
1:A:570:TRP:CD1	1:A:571:VAL:HG22	2.46	0.50
1:B:167:LEU:HB3	1:B:168:PRO:HD2	1.94	0.50
1:B:867:THR:HG22	1:B:867:THR:O	2.10	0.50
1:C:570:TRP:CD1	1:C:571:VAL:HG22	2.46	0.50
1:C:713:HIS:C	1:C:714:ILE:HD13	2.31	0.50
1:D:4:THR:CA	1:D:9:VAL:HG11	2.41	0.50
1:D:500:CYS:HA	1:D:534:ILE:O	2.11	0.50
1:D:50:GLN:O	1:D:215:LEU:HA	2.11	0.50
1:D:772:ASP:N	1:D:772:ASP:OD1	2.39	0.50
1:F:867:THR:HG22	1:F:867:THR:O	2.10	0.50
1:G:50:GLN:O	1:G:215:LEU:HA	2.11	0.50
1:G:867:THR:O	1:G:867:THR:HG22	2.10	0.50
1:H:1020:TRP:CD1	1:H:1021:CME:N	2.80	0.50
1:H:178:ARG:HB2	1:H:178:ARG:HH11	1.72	0.50
1:J:127:PHE:CE2	1:J:184:LEU:HG	2.47	0.50
1:J:66:PRO:HB3	1:J:187:MET:HE1	1.93	0.50
1:J:500:CYS:HA	1:J:534:ILE:O	2.11	0.50
1:J:79:PRO:HD2	1:J:80:GLU:OE2	2.11	0.50
1:K:287:ASP:N	1:K:287:ASP:OD1	2.30	0.50
1:L:73:TRP:CH2	1:L:185:ALA:HB1	2.46	0.50
1:L:808:GLU:OE1	1:L:808:GLU:HA	2.09	0.50
1:M:63:PHE:CB	1:M:64:PRO:HD2	2.25	0.50
1:P:85:VAL:HG12	1:P:86:VAL:N	2.26	0.50
1:A:50:GLN:O	1:A:215:LEU:HA	2.11	0.50
1:B:129:VAL:CG2	1:B:182:ASN:ND2	2.75	0.50
1:B:763:GLY:HA3	1:B:822:LEU:HD22	1.93	0.50
1:C:167:LEU:HB3	1:C:168:PRO:HD2	1.94	0.50
1:C:763:GLY:HA3	1:C:822:LEU:HD22	1.93	0.50
1:D:570:TRP:CD1	1:D:571:VAL:HG22	2.46	0.50
1:D:73:TRP:CH2	1:D:185:ALA:HB1	2.47	0.50
1:E:129:VAL:CG2	1:E:182:ASN:ND2	2.75	0.50
1:E:257:THR:HG23	1:E:270:GLY:O	2.12	0.50
1:G:37:ARG:NH2	1:G:217:LYS:HA	2.27	0.50
1:G:257:THR:HG23	1:G:270:GLY:O	2.12	0.50
1:G:73:TRP:CH2	1:G:185:ALA:HB1	2.46	0.50
1:G:763:GLY:HA3	1:G:822:LEU:HD22	1.93	0.50
1:H:127:PHE:N	1:H:127:PHE:CD2	2.78	0.50
1:H:50:GLN:O	1:H:215:LEU:HA	2.11	0.50
1:H:608:PHE:O	1:H:611:ARG:N	2.38	0.50
1:I:1020:TRP:CD1	1:I:1021:CME:N	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:570:TRP:CD1	1:I:571:VAL:HG22	2.46	0.50
1:I:763:GLY:HA3	1:I:822:LEU:HD22	1.93	0.50
1:J:257:THR:HB	1:J:314:GLU:HG3	1.93	0.50
1:K:73:TRP:CH2	1:K:185:ALA:HB1	2.46	0.50
1:L:127:PHE:CE2	1:L:184:LEU:HG	2.47	0.50
1:L:129:VAL:CG2	1:L:182:ASN:ND2	2.75	0.50
1:L:662:PRO:O	1:L:663:LEU:HD23	2.11	0.50
1:L:713:HIS:C	1:L:714:ILE:HD13	2.31	0.50
1:L:767:GLN:CG	1:L:768:MET:N	2.75	0.50
1:M:167:LEU:HB3	1:M:168:PRO:HD2	1.94	0.50
1:M:37:ARG:NH2	1:M:217:LYS:HA	2.27	0.50
1:M:261:TRP:CZ3	1:M:266:GLN:HB2	2.45	0.50
1:M:570:TRP:CD1	1:M:571:VAL:HG22	2.46	0.50
1:N:78:LEU:N	1:N:78:LEU:HD23	2.25	0.50
1:O:37:ARG:NH2	1:O:217:LYS:HA	2.27	0.50
1:O:763:GLY:HA3	1:O:822:LEU:HD22	1.93	0.50
1:O:85:VAL:HG12	1:O:86:VAL:N	2.26	0.50
1:P:713:HIS:C	1:P:714:ILE:HD13	2.31	0.50
1:A:178:ARG:HH11	1:A:178:ARG:HB2	1.72	0.50
1:B:73:TRP:CH2	1:B:185:ALA:HB1	2.46	0.50
1:C:127:PHE:N	1:C:127:PHE:CD2	2.78	0.50
1:C:176:PHE:CD1	1:C:176:PHE:N	2.80	0.50
1:C:50:GLN:O	1:C:215:LEU:HA	2.11	0.50
1:E:138:GLN:N	1:E:217:LYS:O	2.33	0.50
1:F:167:LEU:HB3	1:F:168:PRO:HD2	1.94	0.50
1:G:176:PHE:CD1	1:G:176:PHE:N	2.80	0.50
1:G:570:TRP:CD1	1:G:571:VAL:HG22	2.46	0.50
1:G:832:ASP:N	1:G:832:ASP:OD1	2.41	0.50
1:H:85:VAL:HG12	1:H:86:VAL:N	2.26	0.50
1:K:78:LEU:N	1:K:78:LEU:HD23	2.25	0.50
1:L:167:LEU:HB3	1:L:168:PRO:HD2	1.94	0.50
1:L:66:PRO:HB3	1:L:187:MET:HE1	1.94	0.50
1:L:257:THR:HB	1:L:314:GLU:HG3	1.93	0.50
1:M:500:CYS:HA	1:M:534:ILE:O	2.11	0.50
1:N:708:TRP:CE3	1:N:709:SER:HB3	2.47	0.50
1:O:1020:TRP:CD1	1:O:1021:CME:N	2.80	0.50
1:O:167:LEU:HB3	1:O:168:PRO:HD2	1.94	0.50
1:O:808:GLU:OE1	1:O:808:GLU:HA	2.09	0.50
1:P:73:TRP:CH2	1:P:185:ALA:HB1	2.46	0.50
1:D:129:VAL:CG2	1:D:182:ASN:ND2	2.75	0.50
1:E:167:LEU:HB3	1:E:168:PRO:HD2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:176:PHE:CD1	1:E:176:PHE:N	2.80	0.50
1:E:257:THR:HB	1:E:314:GLU:HG3	1.93	0.50
1:F:257:THR:HG23	1:F:270:GLY:O	2.12	0.50
1:F:500:CYS:HA	1:F:534:ILE:O	2.11	0.50
1:F:662:PRO:O	1:F:663:LEU:HD23	2.11	0.50
1:F:708:TRP:CE3	1:F:709:SER:HB3	2.47	0.50
1:G:167:LEU:HB3	1:G:168:PRO:HD2	1.94	0.50
1:G:808:GLU:OE1	1:G:808:GLU:HA	2.09	0.50
1:G:85:VAL:HG12	1:G:86:VAL:N	2.26	0.50
1:H:127:PHE:CE2	1:H:184:LEU:HG	2.47	0.50
1:H:500:CYS:HA	1:H:534:ILE:O	2.11	0.50
1:J:211:ASP:OD1	1:J:211:ASP:N	2.40	0.50
1:J:50:GLN:O	1:J:215:LEU:HA	2.11	0.50
1:K:1020:TRP:CD1	1:K:1021:CME:N	2.80	0.50
1:L:920:LEU:HB3	1:L:921:PRO:CD	2.37	0.50
1:M:176:PHE:CD1	1:M:176:PHE:N	2.80	0.50
1:N:129:VAL:CG2	1:N:182:ASN:ND2	2.75	0.50
1:N:73:TRP:CH2	1:N:185:ALA:HB1	2.46	0.50
1:N:257:THR:HG23	1:N:270:GLY:O	2.12	0.50
1:N:78:LEU:HB3	1:N:79:PRO:CD	2.41	0.50
1:O:570:TRP:CD1	1:O:571:VAL:HG22	2.46	0.50
1:P:138:GLN:HG2	1:P:139:THR:N	2.23	0.50
1:A:608:PHE:O	1:A:611:ARG:N	2.38	0.50
1:A:65:ALA:CB	1:A:66:PRO:HD2	2.33	0.50
1:C:257:THR:HG23	1:C:270:GLY:O	2.12	0.50
1:D:138:GLN:HG2	1:D:139:THR:N	2.23	0.50
1:D:257:THR:HG23	1:D:270:GLY:O	2.12	0.50
1:E:713:HIS:C	1:E:714:ILE:HD13	2.31	0.50
1:E:85:VAL:HG12	1:E:86:VAL:N	2.26	0.50
1:F:37:ARG:NH2	1:F:217:LYS:HA	2.27	0.50
1:F:257:THR:HB	1:F:314:GLU:HG3	1.93	0.50
1:G:211:ASP:OD1	1:G:211:ASP:N	2.40	0.50
1:H:167:LEU:HB3	1:H:168:PRO:HD2	1.94	0.50
1:I:73:TRP:CH2	1:I:185:ALA:HB1	2.46	0.50
1:I:777:LEU:CD2	1:I:889:ALA:HA	2.39	0.50
1:J:73:TRP:CH2	1:J:185:ALA:HB1	2.46	0.50
1:K:37:ARG:NH2	1:K:217:LYS:HA	2.27	0.50
1:K:763:GLY:HA3	1:K:822:LEU:HD22	1.93	0.50
1:L:37:ARG:NH2	1:L:217:LYS:HA	2.27	0.50
1:L:63:PHE:CB	1:L:64:PRO:HD2	2.25	0.50
1:L:79:PRO:HD2	1:L:80:GLU:OE2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:138:GLN:HG2	1:N:139:THR:N	2.23	0.50
1:N:176:PHE:CD1	1:N:176:PHE:N	2.80	0.50
1:N:257:THR:HB	1:N:314:GLU:HG3	1.93	0.50
1:A:129:VAL:CG2	1:A:182:ASN:ND2	2.75	0.49
1:A:127:PHE:CE2	1:A:184:LEU:HG	2.47	0.49
1:A:73:TRP:CH2	1:A:185:ALA:HB1	2.46	0.49
1:A:37:ARG:NH2	1:A:217:LYS:HA	2.27	0.49
1:A:777:LEU:HD21	1:A:889:ALA:CA	2.40	0.49
1:B:595:THR:HG23	1:B:596:PRO:CA	2.39	0.49
1:C:37:ARG:NH2	1:C:217:LYS:HA	2.27	0.49
1:E:79:PRO:HD2	1:E:80:GLU:OE2	2.11	0.49
1:G:127:PHE:CE2	1:G:184:LEU:HG	2.47	0.49
1:G:708:TRP:CE3	1:G:709:SER:HB3	2.47	0.49
1:I:4:THR:CA	1:I:9:VAL:HG11	2.41	0.49
1:J:1020:TRP:CD1	1:J:1021:CME:N	2.80	0.49
1:J:176:PHE:CD1	1:J:176:PHE:N	2.80	0.49
1:K:500:CYS:HA	1:K:534:ILE:O	2.11	0.49
1:K:708:TRP:CE3	1:K:709:SER:HB3	2.47	0.49
1:L:50:GLN:O	1:L:215:LEU:HA	2.11	0.49
1:L:777:LEU:CD2	1:L:889:ALA:HA	2.39	0.49
1:M:178:ARG:HB2	1:M:178:ARG:HH11	1.72	0.49
1:M:767:GLN:CG	1:M:768:MET:N	2.75	0.49
1:M:85:VAL:HG12	1:M:86:VAL:N	2.26	0.49
1:N:610:ASP:O	1:N:611:ARG:HB2	2.12	0.49
1:O:211:ASP:N	1:O:211:ASP:OD1	2.40	0.49
1:P:167:LEU:HB3	1:P:168:PRO:HD2	1.94	0.49
1:P:178:ARG:HB2	1:P:178:ARG:HH11	1.72	0.49
1:A:129:VAL:HG23	1:A:182:ASN:ND2	2.28	0.49
1:A:85:VAL:HG12	1:A:86:VAL:N	2.26	0.49
1:B:127:PHE:CE2	1:B:184:LEU:HG	2.47	0.49
1:B:257:THR:HG23	1:B:270:GLY:O	2.12	0.49
1:B:808:GLU:OE1	1:B:808:GLU:HA	2.09	0.49
1:D:37:ARG:NH2	1:D:217:LYS:HA	2.27	0.49
1:E:66:PRO:HB3	1:E:187:MET:CE	2.43	0.49
1:E:610:ASP:O	1:E:611:ARG:HB2	2.12	0.49
1:G:662:PRO:O	1:G:663:LEU:HD23	2.11	0.49
1:H:4:THR:CA	1:H:9:VAL:HG11	2.41	0.49
1:I:129:VAL:CG2	1:I:182:ASN:ND2	2.75	0.49
1:I:37:ARG:NH2	1:I:217:LYS:HA	2.27	0.49
1:I:257:THR:HG23	1:I:270:GLY:O	2.12	0.49
1:I:257:THR:HB	1:I:314:GLU:HG3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:610:ASP:O	1:I:611:ARG:HB2	2.12	0.49
1:J:66:PRO:HB3	1:J:187:MET:CE	2.42	0.49
1:M:708:TRP:CE3	1:M:709:SER:HB3	2.47	0.49
1:N:66:PRO:HB3	1:N:187:MET:CE	2.42	0.49
1:N:822:LEU:HD12	1:N:823:LEU:H	1.74	0.49
1:O:127:PHE:CE2	1:O:184:LEU:HG	2.47	0.49
1:P:257:THR:HG23	1:P:270:GLY:O	2.12	0.49
1:P:767:GLN:CG	1:P:768:MET:N	2.75	0.49
1:P:856:TYR:HD2	1:P:864:MET:HE2	1.77	0.49
1:A:167:LEU:HB3	1:A:168:PRO:HD2	1.94	0.49
1:A:176:PHE:CD1	1:A:176:PHE:N	2.80	0.49
1:B:66:PRO:HB3	1:B:187:MET:CE	2.43	0.49
1:C:66:PRO:HB3	1:C:187:MET:CE	2.42	0.49
1:C:595:THR:HG23	1:C:596:PRO:CA	2.39	0.49
1:D:767:GLN:CG	1:D:768:MET:N	2.75	0.49
1:E:1020:TRP:CD1	1:E:1021:CME:N	2.80	0.49
1:E:66:PRO:HB3	1:E:187:MET:HE1	1.94	0.49
1:E:767:GLN:CG	1:E:768:MET:N	2.75	0.49
1:F:50:GLN:O	1:F:215:LEU:HA	2.11	0.49
1:F:822:LEU:HD12	1:F:823:LEU:H	1.74	0.49
1:G:66:PRO:HB3	1:G:187:MET:CE	2.42	0.49
1:H:37:ARG:NH2	1:H:217:LYS:HA	2.27	0.49
1:I:127:PHE:CE2	1:I:184:LEU:HG	2.47	0.49
1:J:1004:SER:OG	1:J:1006:GLU:OE2	2.30	0.49
1:J:129:VAL:HG23	1:J:182:ASN:ND2	2.28	0.49
1:M:127:PHE:CE2	1:M:184:LEU:HG	2.47	0.49
1:M:50:GLN:O	1:M:215:LEU:HA	2.11	0.49
1:M:79:PRO:HD2	1:M:80:GLU:OE2	2.11	0.49
1:M:808:GLU:OE1	1:M:808:GLU:HA	2.09	0.49
1:O:500:CYS:HA	1:O:534:ILE:O	2.11	0.49
1:O:708:TRP:CE3	1:O:709:SER:HB3	2.47	0.49
1:O:777:LEU:HD21	1:O:889:ALA:CA	2.40	0.49
1:A:595:THR:HG23	1:A:596:PRO:CA	2.39	0.49
1:A:987:ASP:OD2	1:A:990:HIS:HD2	1.96	0.49
1:B:176:PHE:N	1:B:176:PHE:CD1	2.80	0.49
1:B:570:TRP:CD1	1:B:571:VAL:HG22	2.46	0.49
1:B:662:PRO:O	1:B:663:LEU:HD23	2.11	0.49
1:D:679:LEU:HD23	1:D:679:LEU:N	2.24	0.49
1:E:679:LEU:N	1:E:679:LEU:HD23	2.24	0.49
1:E:708:TRP:CE3	1:E:709:SER:HB3	2.47	0.49
1:F:176:PHE:CD1	1:F:176:PHE:N	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:763:GLY:HA3	1:F:822:LEU:HD22	1.93	0.49
1:F:767:GLN:CG	1:F:768:MET:N	2.75	0.49
1:G:1004:SER:OG	1:G:1006:GLU:OE2	2.30	0.49
1:G:856:TYR:CD2	1:G:864:MET:HE1	2.47	0.49
1:H:66:PRO:HB3	1:H:187:MET:CE	2.43	0.49
1:J:570:TRP:CD1	1:J:571:VAL:HG22	2.46	0.49
1:J:772:ASP:OD1	1:J:772:ASP:N	2.39	0.49
1:K:570:TRP:CD1	1:K:571:VAL:HG22	2.46	0.49
1:L:987:ASP:OD2	1:L:990:HIS:HD2	1.96	0.49
1:M:129:VAL:HG23	1:M:182:ASN:ND2	2.28	0.49
1:M:257:THR:HB	1:M:314:GLU:HG3	1.93	0.49
1:N:763:GLY:HA3	1:N:822:LEU:HD22	1.93	0.49
1:P:129:VAL:HG23	1:P:182:ASN:ND2	2.28	0.49
1:P:961:ARG:NH2	1:P:979:GLU:O	2.37	0.49
1:A:1020:TRP:CD1	1:A:1021:CME:N	2.80	0.49
1:A:610:ASP:O	1:A:611:ARG:HB2	2.12	0.49
1:B:1020:TRP:CD1	1:B:1021:CME:N	2.80	0.49
1:B:37:ARG:NH2	1:B:217:LYS:HA	2.27	0.49
1:B:287:ASP:N	1:B:287:ASP:OD1	2.30	0.49
1:C:708:TRP:CE3	1:C:709:SER:HB3	2.47	0.49
1:C:767:GLN:CG	1:C:768:MET:N	2.75	0.49
1:C:85:VAL:HG12	1:C:86:VAL:N	2.27	0.49
1:D:513:PRO:O	1:D:514:ALA:HB3	2.13	0.49
1:D:713:HIS:C	1:D:714:ILE:HD13	2.31	0.49
1:F:127:PHE:CE2	1:F:184:LEU:HG	2.47	0.49
1:G:500:CYS:HA	1:G:534:ILE:O	2.11	0.49
1:H:129:VAL:HG23	1:H:182:ASN:ND2	2.28	0.49
1:H:261:TRP:CZ3	1:H:266:GLN:HB2	2.45	0.49
1:I:708:TRP:CE3	1:I:709:SER:HB3	2.47	0.49
1:J:129:VAL:CG2	1:J:182:ASN:ND2	2.75	0.49
1:J:14:ARG:HG2	1:J:16:TRP:CZ2	2.48	0.49
1:J:610:ASP:O	1:J:611:ARG:HB2	2.12	0.49
1:L:129:VAL:HG23	1:L:182:ASN:ND2	2.28	0.49
1:L:763:GLY:HA3	1:L:822:LEU:HD22	1.93	0.49
1:M:282:ARG:HG3	1:P:423:MET:HB2	1.94	0.49
1:N:127:PHE:CE2	1:N:184:LEU:HG	2.47	0.49
1:N:767:GLN:CG	1:N:768:MET:N	2.75	0.49
1:N:85:VAL:HG12	1:N:86:VAL:N	2.26	0.49
1:O:129:VAL:HG23	1:O:182:ASN:ND2	2.28	0.49
1:D:129:VAL:HG23	1:D:182:ASN:ND2	2.28	0.49
1:D:14:ARG:HG2	1:D:16:TRP:CZ2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:167:LEU:HB3	1:D:168:PRO:HD2	1.94	0.49
1:D:66:PRO:HB3	1:D:187:MET:CE	2.42	0.49
1:D:869:ASP:OD2	1:D:1015:HIS:ND1	2.37	0.49
1:F:282:ARG:HD2	1:G:418:HIS:O	2.13	0.49
1:G:513:PRO:O	1:G:514:ALA:HB3	2.13	0.49
1:H:43:ARG:CG	1:H:43:ARG:HH11	2.13	0.49
1:H:987:ASP:OD2	1:H:990:HIS:HD2	1.96	0.49
1:N:1004:SER:OG	1:N:1006:GLU:OE2	2.30	0.49
1:N:1020:TRP:CD1	1:N:1021:CME:N	2.80	0.49
1:P:66:PRO:HB3	1:P:187:MET:CE	2.43	0.49
1:A:433:LEU:HB3	1:A:434:PRO:HD3	1.95	0.49
1:A:78:LEU:CB	1:A:79:PRO:HD2	2.41	0.49
1:B:708:TRP:CE3	1:B:709:SER:HB3	2.47	0.49
1:C:1004:SER:OG	1:C:1006:GLU:OE2	2.30	0.49
1:C:662:PRO:O	1:C:663:LEU:HD23	2.11	0.49
1:C:987:ASP:OD2	1:C:990:HIS:HD2	1.96	0.49
1:D:127:PHE:CE2	1:D:184:LEU:HG	2.47	0.49
1:D:176:PHE:CD1	1:D:176:PHE:N	2.80	0.49
1:D:78:LEU:HB3	1:D:79:PRO:CD	2.41	0.49
1:E:763:GLY:HA3	1:E:822:LEU:HD22	1.93	0.49
1:E:987:ASP:OD2	1:E:990:HIS:HD2	1.96	0.49
1:F:1020:TRP:CD1	1:F:1021:CME:N	2.80	0.49
1:F:66:PRO:HB3	1:F:187:MET:CE	2.42	0.49
1:F:425:ARG:NH2	1:G:287:ASP:OD2	2.46	0.49
1:H:257:THR:HG23	1:H:270:GLY:O	2.12	0.49
1:H:610:ASP:O	1:H:611:ARG:HB2	2.12	0.49
1:H:767:GLN:CG	1:H:768:MET:N	2.75	0.49
1:I:176:PHE:CD1	1:I:176:PHE:N	2.80	0.49
1:I:66:PRO:HB3	1:I:187:MET:CE	2.42	0.49
1:I:767:GLN:CG	1:I:768:MET:N	2.75	0.49
1:I:78:LEU:HB3	1:I:79:PRO:CD	2.41	0.49
1:I:825:CYS:HA	1:I:837:THR:O	2.13	0.49
1:J:37:ARG:NH2	1:J:217:LYS:HA	2.27	0.49
1:L:176:PHE:N	1:L:176:PHE:CD1	2.80	0.49
1:L:513:PRO:O	1:L:514:ALA:HB3	2.13	0.49
1:M:257:THR:HG23	1:M:270:GLY:O	2.12	0.49
1:O:50:GLN:O	1:O:215:LEU:HA	2.11	0.49
1:O:66:PRO:HB3	1:O:187:MET:CE	2.42	0.49
1:P:176:PHE:N	1:P:176:PHE:CD1	2.80	0.49
1:P:610:ASP:O	1:P:611:ARG:HB2	2.12	0.49
1:P:847:LYS:HZ3	1:P:875:ASP:CG	2.14	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:66:PRO:HB3	1:A:187:MET:HE1	1.95	0.49
1:A:832:ASP:OD1	1:A:832:ASP:N	2.41	0.49
1:A:952:ARG:NH1	1:A:952:ARG:CG	2.76	0.49
1:C:129:VAL:HG23	1:C:182:ASN:ND2	2.28	0.49
1:C:127:PHE:CE2	1:C:184:LEU:HG	2.47	0.49
1:D:708:TRP:CE3	1:D:709:SER:HB3	2.47	0.49
1:D:910:LEU:HD12	1:D:910:LEU:C	2.33	0.49
1:E:500:CYS:HA	1:E:534:ILE:O	2.11	0.49
1:G:129:VAL:HG23	1:G:182:ASN:ND2	2.28	0.49
1:G:767:GLN:CG	1:G:768:MET:N	2.75	0.49
1:H:147:ASN:HA	1:H:148:SER:HA	1.63	0.49
1:H:708:TRP:CE3	1:H:709:SER:HB3	2.47	0.49
1:J:513:PRO:O	1:J:514:ALA:HB3	2.13	0.49
1:K:176:PHE:N	1:K:176:PHE:CD1	2.80	0.49
1:L:257:THR:HG23	1:L:270:GLY:O	2.12	0.49
1:L:433:LEU:HB3	1:L:434:PRO:HD3	1.95	0.49
1:M:513:PRO:O	1:M:514:ALA:HB3	2.13	0.49
1:N:569:ASP:O	1:N:605:GLY:HA2	2.13	0.49
1:O:257:THR:HG23	1:O:270:GLY:O	2.12	0.49
1:O:767:GLN:CG	1:O:768:MET:N	2.75	0.49
1:P:131:GLU:O	1:P:132:SER:C	2.51	0.49
1:P:987:ASP:OD2	1:P:990:HIS:HD2	1.96	0.49
1:A:14:ARG:HG2	1:A:16:TRP:CZ2	2.48	0.49
1:A:257:THR:HG23	1:A:270:GLY:O	2.12	0.49
1:A:73:TRP:CE2	1:A:122:CYS:HB3	2.48	0.49
1:D:1004:SER:OG	1:D:1006:GLU:OE2	2.30	0.49
1:D:825:CYS:HA	1:D:837:THR:O	2.13	0.49
1:D:987:ASP:OD2	1:D:990:HIS:HD2	1.96	0.49
1:E:37:ARG:NH2	1:E:217:LYS:HA	2.27	0.49
1:E:35:SER:O	1:E:50:GLN:HG3	2.13	0.49
1:E:473:ARG:HD2	1:H:469:ASP:HB3	1.95	0.49
1:E:808:GLU:OE1	1:E:808:GLU:HA	2.09	0.49
1:F:129:VAL:HG23	1:F:182:ASN:ND2	2.28	0.49
1:F:43:ARG:HH11	1:F:43:ARG:CG	2.13	0.49
1:F:952:ARG:NH1	1:F:952:ARG:CG	2.76	0.49
1:G:14:ARG:HG2	1:G:16:TRP:CZ2	2.48	0.49
1:G:610:ASP:O	1:G:611:ARG:HB2	2.12	0.49
1:I:129:VAL:HG23	1:I:182:ASN:ND2	2.28	0.49
1:J:987:ASP:OD2	1:J:990:HIS:HD2	1.96	0.49
1:K:4:THR:CA	1:K:9:VAL:HG11	2.41	0.49
1:L:1004:SER:OG	1:L:1006:GLU:OE2	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:66:PRO:HB3	1:L:187:MET:CE	2.42	0.49
1:L:73:TRP:CZ2	1:L:185:ALA:HB1	2.48	0.49
1:M:1004:SER:OG	1:M:1006:GLU:OE2	2.30	0.49
1:M:336:ARG:CG	1:M:336:ARG:HH11	2.26	0.49
1:M:464:HIS:N	5:M:2240:HOH:O	2.33	0.49
1:M:987:ASP:OD2	1:M:990:HIS:HD2	1.96	0.49
1:N:129:VAL:HG23	1:N:182:ASN:ND2	2.28	0.49
1:O:73:TRP:CZ2	1:O:185:ALA:HB1	2.48	0.49
1:A:708:TRP:CE3	1:A:709:SER:HB3	2.47	0.49
1:A:767:GLN:CG	1:A:768:MET:N	2.75	0.49
1:B:35:SER:O	1:B:50:GLN:HG3	2.13	0.49
1:B:73:TRP:CE2	1:B:122:CYS:HB3	2.48	0.49
1:D:73:TRP:CZ2	1:D:185:ALA:HB1	2.48	0.49
1:E:418:HIS:O	1:H:282:ARG:HD2	2.12	0.49
1:G:145:GLY:HA3	1:G:210:ARG:HG3	1.95	0.49
1:H:254:LEU:HD23	1:H:254:LEU:HA	1.51	0.49
1:H:257:THR:HB	1:H:314:GLU:HG3	1.93	0.49
1:I:987:ASP:OD2	1:I:990:HIS:HD2	1.96	0.49
1:J:167:LEU:HB3	1:J:168:PRO:HD2	1.94	0.49
1:K:73:TRP:CZ2	1:K:185:ALA:HB1	2.48	0.49
1:K:66:PRO:HB3	1:K:187:MET:CE	2.42	0.49
1:K:910:LEU:C	1:K:910:LEU:HD12	2.33	0.49
1:L:825:CYS:HA	1:L:837:THR:O	2.13	0.49
1:M:1020:TRP:CD1	1:M:1021:CME:N	2.80	0.49
1:M:763:GLY:HA3	1:M:822:LEU:HD22	1.93	0.49
1:M:910:LEU:HD12	1:M:910:LEU:C	2.33	0.49
1:N:825:CYS:HA	1:N:837:THR:O	2.13	0.49
1:O:14:ARG:HG2	1:O:16:TRP:CZ2	2.48	0.49
1:P:127:PHE:CE2	1:P:184:LEU:HG	2.47	0.49
1:P:73:TRP:CZ2	1:P:185:ALA:HB1	2.48	0.49
1:P:278:ILE:CD1	1:P:278:ILE:N	2.76	0.49
1:P:43:ARG:HH11	1:P:43:ARG:CG	2.13	0.49
1:A:1004:SER:OG	1:A:1006:GLU:OE2	2.30	0.48
1:A:66:PRO:HB3	1:A:187:MET:CE	2.43	0.48
1:A:679:LEU:HD23	1:A:679:LEU:N	2.24	0.48
1:B:73:TRP:CZ2	1:B:185:ALA:HB1	2.48	0.48
1:B:433:LEU:HB3	1:B:434:PRO:HD3	1.95	0.48
1:C:433:LEU:HB3	1:C:434:PRO:HD3	1.95	0.48
1:D:569:ASP:O	1:D:605:GLY:HA2	2.13	0.48
1:E:14:ARG:HG2	1:E:16:TRP:CZ2	2.48	0.48
1:E:127:PHE:CE2	1:E:184:LEU:HG	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:772:ASP:OD1	1:G:772:ASP:N	2.39	0.48
1:H:14:ARG:HG2	1:H:16:TRP:CZ2	2.48	0.48
1:H:569:ASP:O	1:H:605:GLY:HA2	2.13	0.48
1:I:73:TRP:CZ2	1:I:185:ALA:HB1	2.48	0.48
1:K:129:VAL:HG23	1:K:182:ASN:ND2	2.27	0.48
1:K:167:LEU:HB3	1:K:168:PRO:HD2	1.94	0.48
1:K:66:PRO:HB3	1:K:187:MET:HE1	1.95	0.48
1:K:513:PRO:O	1:K:514:ALA:HB3	2.13	0.48
1:K:767:GLN:CG	1:K:768:MET:N	2.75	0.48
1:L:73:TRP:CE2	1:L:122:CYS:HB3	2.48	0.48
1:M:35:SER:O	1:M:50:GLN:HG3	2.13	0.48
1:N:147:ASN:HA	1:N:148:SER:HA	1.64	0.48
1:N:655:MET:HB2	1:N:655:MET:HE3	1.84	0.48
1:N:772:ASP:N	1:N:772:ASP:OD1	2.39	0.48
1:O:147:ASN:HA	1:O:148:SER:HA	1.64	0.48
1:O:176:PHE:CD1	1:O:176:PHE:N	2.80	0.48
1:O:610:ASP:O	1:O:611:ARG:HB2	2.12	0.48
1:A:35:SER:O	1:A:50:GLN:HG3	2.13	0.48
1:A:513:PRO:O	1:A:514:ALA:HB3	2.13	0.48
1:B:129:VAL:HG23	1:B:182:ASN:ND2	2.28	0.48
1:C:1020:TRP:CD1	1:C:1021:CME:N	2.80	0.48
1:F:825:CYS:HA	1:F:837:THR:O	2.13	0.48
1:F:910:LEU:C	1:F:910:LEU:HD12	2.33	0.48
1:G:147:ASN:HA	1:G:148:SER:HA	1.64	0.48
1:G:987:ASP:OD2	1:G:990:HIS:HD2	1.96	0.48
1:H:278:ILE:CD1	1:H:278:ILE:N	2.76	0.48
1:K:14:ARG:HG2	1:K:16:TRP:CZ2	2.48	0.48
1:K:127:PHE:CE2	1:K:184:LEU:HG	2.47	0.48
1:K:336:ARG:HH11	1:K:336:ARG:CG	2.26	0.48
1:K:610:ASP:O	1:K:611:ARG:HB2	2.12	0.48
1:L:145:GLY:HA3	1:L:210:ARG:HG3	1.96	0.48
1:L:610:ASP:O	1:L:611:ARG:HB2	2.12	0.48
1:L:910:LEU:C	1:L:910:LEU:HD12	2.33	0.48
1:N:43:ARG:CG	1:N:43:ARG:HH11	2.13	0.48
1:O:145:GLY:HA3	1:O:210:ARG:HG3	1.96	0.48
1:O:825:CYS:HA	1:O:837:THR:O	2.13	0.48
1:O:910:LEU:HD12	1:O:910:LEU:C	2.33	0.48
1:P:569:ASP:O	1:P:605:GLY:HA2	2.13	0.48
1:P:73:TRP:CE2	1:P:122:CYS:HB3	2.48	0.48
1:B:767:GLN:CG	1:B:768:MET:N	2.75	0.48
1:C:825:CYS:HA	1:C:837:THR:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:14:ARG:HG2	1:F:16:TRP:CZ2	2.48	0.48
1:G:910:LEU:C	1:G:910:LEU:HD12	2.33	0.48
1:H:73:TRP:CZ2	1:H:185:ALA:HB1	2.48	0.48
1:I:14:ARG:HG2	1:I:16:TRP:CZ2	2.48	0.48
1:J:257:THR:HG23	1:J:270:GLY:O	2.12	0.48
1:J:573:GLN:HB2	1:J:602:CYS:O	2.14	0.48
1:J:685:LEU:HA	1:J:686:PRO:HD3	1.66	0.48
1:J:708:TRP:CE3	1:J:709:SER:HB3	2.47	0.48
1:K:35:SER:O	1:K:50:GLN:HG3	2.13	0.48
1:K:433:LEU:HB3	1:K:434:PRO:HD3	1.95	0.48
1:J:473:ARG:HD2	1:K:469:ASP:HB3	1.95	0.48
1:K:825:CYS:HA	1:K:837:THR:O	2.13	0.48
1:K:869:ASP:OD2	1:K:1015:HIS:ND1	2.37	0.48
1:M:14:ARG:HG2	1:M:16:TRP:CZ2	2.48	0.48
1:M:287:ASP:N	1:M:287:ASP:OD1	2.30	0.48
1:O:573:GLN:HB2	1:O:602:CYS:O	2.14	0.48
1:O:987:ASP:OD2	1:O:990:HIS:HD2	1.96	0.48
1:P:145:GLY:HA3	1:P:210:ARG:HG3	1.95	0.48
1:P:37:ARG:NH2	1:P:217:LYS:HA	2.27	0.48
1:P:257:THR:HB	1:P:314:GLU:HG3	1.93	0.48
1:P:708:TRP:CE3	1:P:709:SER:HB3	2.47	0.48
1:P:910:LEU:HD12	1:P:910:LEU:C	2.34	0.48
1:A:131:GLU:O	1:A:132:SER:C	2.51	0.48
1:C:597:ASN:HD22	1:C:599:ARG:H	1.62	0.48
1:C:952:ARG:NH1	1:C:952:ARG:CG	2.76	0.48
1:D:35:SER:O	1:D:50:GLN:HG3	2.13	0.48
1:D:73:TRP:CE2	1:D:122:CYS:HB3	2.48	0.48
1:E:129:VAL:HG23	1:E:182:ASN:ND2	2.28	0.48
1:E:73:TRP:CZ2	1:E:185:ALA:HB1	2.48	0.48
1:F:469:ASP:HB3	1:G:473:ARG:HD2	1.94	0.48
1:F:78:LEU:CB	1:F:79:PRO:HD2	2.41	0.48
1:F:856:TYR:CD2	1:F:864:MET:HE2	2.49	0.48
1:G:73:TRP:CE2	1:G:122:CYS:HB3	2.48	0.48
1:H:145:GLY:HA3	1:H:210:ARG:HG3	1.96	0.48
1:H:513:PRO:O	1:H:514:ALA:HB3	2.13	0.48
1:H:73:TRP:CE2	1:H:122:CYS:HB3	2.48	0.48
1:H:825:CYS:HA	1:H:837:THR:O	2.13	0.48
1:I:569:ASP:O	1:I:605:GLY:HA2	2.13	0.48
1:J:433:LEU:HB3	1:J:434:PRO:HD3	1.95	0.48
1:J:73:TRP:CE2	1:J:122:CYS:HB3	2.48	0.48
1:J:85:VAL:HG12	1:J:86:VAL:N	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:569:ASP:O	1:K:605:GLY:HA2	2.13	0.48
1:L:14:ARG:HG2	1:L:16:TRP:CZ2	2.48	0.48
1:L:78:LEU:HB3	1:L:79:PRO:CD	2.41	0.48
1:M:569:ASP:O	1:M:605:GLY:HA2	2.13	0.48
1:M:610:ASP:O	1:M:611:ARG:HB2	2.12	0.48
1:M:78:LEU:HB3	1:M:79:PRO:CD	2.41	0.48
1:N:37:ARG:NH2	1:N:217:LYS:HA	2.27	0.48
1:N:952:ARG:NH1	1:N:952:ARG:CG	2.76	0.48
1:O:131:GLU:O	1:O:132:SER:C	2.51	0.48
1:O:569:ASP:O	1:O:605:GLY:HA2	2.13	0.48
1:O:73:TRP:CE2	1:O:122:CYS:HB3	2.48	0.48
1:P:237:ARG:HB2	1:P:237:ARG:HE	1.48	0.48
1:A:569:ASP:O	1:A:605:GLY:HA2	2.13	0.48
1:A:597:ASN:HD22	1:A:599:ARG:H	1.62	0.48
1:B:145:GLY:HA3	1:B:210:ARG:HG3	1.96	0.48
1:B:513:PRO:O	1:B:514:ALA:HB3	2.13	0.48
1:B:78:LEU:HB3	1:B:79:PRO:CD	2.41	0.48
1:B:910:LEU:C	1:B:910:LEU:HD12	2.33	0.48
1:B:961:ARG:NH2	1:B:979:GLU:O	2.37	0.48
1:C:427:THR:HA	1:C:436:MET:HE2	1.88	0.48
1:C:73:TRP:CE2	1:C:122:CYS:HB3	2.48	0.48
1:D:573:GLN:HB2	1:D:602:CYS:O	2.14	0.48
1:D:610:ASP:O	1:D:611:ARG:HB2	2.12	0.48
1:E:573:GLN:HB2	1:E:602:CYS:O	2.14	0.48
1:E:825:CYS:HA	1:E:837:THR:O	2.13	0.48
1:E:910:LEU:HD12	1:E:910:LEU:C	2.33	0.48
1:G:35:SER:O	1:G:50:GLN:HG3	2.13	0.48
1:H:131:GLU:O	1:H:132:SER:C	2.51	0.48
1:H:433:LEU:HB3	1:H:434:PRO:HD3	1.95	0.48
1:H:597:ASN:HD22	1:H:599:ARG:H	1.62	0.48
1:H:910:LEU:C	1:H:910:LEU:HD12	2.33	0.48
1:K:987:ASP:OD2	1:K:990:HIS:HD2	1.96	0.48
1:L:708:TRP:CE3	1:L:709:SER:HB3	2.47	0.48
1:M:66:PRO:HB3	1:M:187:MET:CE	2.43	0.48
1:M:673:ALA:O	1:M:674:PRO:C	2.52	0.48
1:N:35:SER:O	1:N:50:GLN:HG3	2.13	0.48
1:M:282:ARG:HB2	1:P:422:PRO:HA	1.95	0.48
1:A:825:CYS:HA	1:A:837:THR:O	2.13	0.48
1:B:952:ARG:NH1	1:B:952:ARG:CG	2.76	0.48
1:C:14:ARG:HG2	1:C:16:TRP:CZ2	2.48	0.48
1:C:35:SER:O	1:C:50:GLN:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:73:TRP:CE2	1:E:122:CYS:HB3	2.48	0.48
1:F:73:TRP:CZ2	1:F:185:ALA:HB1	2.48	0.48
1:F:573:GLN:HB2	1:F:602:CYS:O	2.14	0.48
1:F:610:ASP:O	1:F:611:ARG:HB2	2.12	0.48
1:G:73:TRP:CZ2	1:G:185:ALA:HB1	2.48	0.48
1:G:569:ASP:O	1:G:605:GLY:HA2	2.13	0.48
1:H:35:SER:O	1:H:50:GLN:HG3	2.13	0.48
1:I:673:ALA:O	1:I:674:PRO:C	2.52	0.48
1:I:73:TRP:CE2	1:I:122:CYS:HB3	2.48	0.48
1:J:673:ALA:O	1:J:674:PRO:C	2.52	0.48
1:J:767:GLN:CG	1:J:768:MET:N	2.75	0.48
1:K:573:GLN:HB2	1:K:602:CYS:O	2.13	0.48
1:L:952:ARG:NH1	1:L:952:ARG:CG	2.76	0.48
1:M:73:TRP:CZ2	1:M:185:ALA:HB1	2.48	0.48
1:M:777:LEU:HD21	1:M:889:ALA:CA	2.40	0.48
1:M:952:ARG:NH1	1:M:952:ARG:CG	2.76	0.48
1:N:14:ARG:HG2	1:N:16:TRP:CZ2	2.48	0.48
1:N:573:GLN:HB2	1:N:602:CYS:O	2.14	0.48
1:N:910:LEU:HD12	1:N:910:LEU:C	2.33	0.48
1:P:35:SER:O	1:P:50:GLN:HG3	2.13	0.48
1:A:145:GLY:HA3	1:A:210:ARG:HG3	1.96	0.48
1:A:287:ASP:OD1	1:A:287:ASP:N	2.30	0.48
1:B:673:ALA:O	1:B:674:PRO:C	2.52	0.48
1:B:772:ASP:OD1	1:B:772:ASP:N	2.39	0.48
1:B:825:CYS:HA	1:B:837:THR:O	2.13	0.48
1:C:569:ASP:O	1:C:605:GLY:HA2	2.13	0.48
1:C:78:LEU:HB3	1:C:79:PRO:CD	2.41	0.48
1:C:777:LEU:CD2	1:C:889:ALA:HA	2.39	0.48
1:D:822:LEU:HD11	1:D:824:GLN:O	2.14	0.48
1:D:822:LEU:HD12	1:D:823:LEU:H	1.75	0.48
1:E:822:LEU:HD12	1:E:823:LEU:H	1.74	0.48
1:F:777:LEU:HD21	1:F:889:ALA:CA	2.40	0.48
1:F:4:THR:CA	1:F:9:VAL:HG11	2.41	0.48
1:G:822:LEU:HD11	1:G:824:GLN:O	2.14	0.48
1:H:1018:LEU:HD23	1:H:1018:LEU:HA	1.53	0.48
1:H:952:ARG:CG	1:H:952:ARG:NH1	2.76	0.48
1:I:952:ARG:NH1	1:I:952:ARG:CG	2.76	0.48
1:J:35:SER:O	1:J:50:GLN:HG3	2.13	0.48
1:J:910:LEU:HD12	1:J:910:LEU:C	2.33	0.48
1:K:257:THR:HG23	1:K:270:GLY:O	2.12	0.48
1:L:35:SER:O	1:L:50:GLN:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:147:ASN:HA	1:M:148:SER:HA	1.64	0.48
1:M:254:LEU:HD23	1:M:254:LEU:HA	1.51	0.48
1:M:73:TRP:CE2	1:M:122:CYS:HB3	2.48	0.48
1:N:597:ASN:HD22	1:N:599:ARG:H	1.62	0.48
1:P:513:PRO:O	1:P:514:ALA:HB3	2.13	0.48
1:P:597:ASN:HD22	1:P:599:ARG:H	1.62	0.48
1:P:822:LEU:HD11	1:P:824:GLN:O	2.14	0.48
1:A:43:ARG:HH11	1:A:43:ARG:CG	2.13	0.48
1:A:673:ALA:O	1:A:674:PRO:C	2.52	0.48
1:B:1004:SER:OG	1:B:1006:GLU:OE2	2.30	0.48
1:B:894:ARG:NH1	1:B:919:ASP:OD2	2.47	0.48
1:B:920:LEU:HB3	1:B:921:PRO:CD	2.37	0.48
1:C:66:PRO:HB3	1:C:187:MET:HE1	1.95	0.48
1:C:610:ASP:O	1:C:611:ARG:HB2	2.12	0.48
1:C:873:ALA:O	1:C:876:THR:HG22	2.14	0.48
1:C:4:THR:CA	1:C:9:VAL:HG11	2.41	0.48
1:E:433:LEU:HB3	1:E:434:PRO:HD3	1.95	0.48
1:E:513:PRO:O	1:E:514:ALA:HB3	2.13	0.48
1:E:822:LEU:HD11	1:E:824:GLN:O	2.14	0.48
1:F:597:ASN:HD22	1:F:599:ARG:H	1.62	0.48
1:H:176:PHE:N	1:H:176:PHE:CD1	2.80	0.48
1:H:822:LEU:HD11	1:H:824:GLN:O	2.14	0.48
1:I:147:ASN:HA	1:I:148:SER:HA	1.64	0.48
1:I:894:ARG:NH1	1:I:919:ASP:OD2	2.47	0.48
1:J:583:ASN:HA	1:J:584:PRO:HD3	1.79	0.48
1:J:569:ASP:O	1:J:605:GLY:HA2	2.13	0.48
1:J:825:CYS:HA	1:J:837:THR:O	2.13	0.48
1:J:777:LEU:CD2	1:J:889:ALA:HA	2.39	0.48
1:L:569:ASP:O	1:L:605:GLY:HA2	2.13	0.48
1:L:573:GLN:HB2	1:L:602:CYS:O	2.14	0.48
1:N:987:ASP:OD2	1:N:990:HIS:HD2	1.96	0.48
1:O:894:ARG:NH1	1:O:919:ASP:OD2	2.47	0.48
1:P:673:ALA:O	1:P:674:PRO:C	2.52	0.48
1:P:825:CYS:HA	1:P:837:THR:O	2.13	0.48
1:A:573:GLN:HB2	1:A:602:CYS:O	2.14	0.48
1:B:14:ARG:HG2	1:B:16:TRP:CZ2	2.48	0.48
1:B:597:ASN:HD22	1:B:599:ARG:H	1.62	0.48
1:A:287:ASP:CG	1:D:425:ARG:HH22	2.17	0.48
1:D:85:VAL:HG12	1:D:86:VAL:N	2.27	0.48
1:E:1004:SER:OG	1:E:1006:GLU:OE2	2.30	0.48
1:F:655:MET:HG3	1:F:655:MET:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:894:ARG:NH1	1:F:919:ASP:OD2	2.47	0.48
1:G:869:ASP:OD2	1:G:1015:HIS:ND1	2.37	0.48
1:H:673:ALA:O	1:H:674:PRO:C	2.52	0.48
1:I:597:ASN:HD22	1:I:599:ARG:H	1.62	0.48
1:I:952:ARG:NH1	1:I:952:ARG:HG2	2.29	0.48
1:J:822:LEU:HD11	1:J:824:GLN:O	2.14	0.48
1:L:822:LEU:HD11	1:L:824:GLN:O	2.14	0.48
1:L:822:LEU:HD12	1:L:823:LEU:H	1.74	0.48
1:M:395:HIS:HA	1:M:396:PRO:HD3	1.51	0.48
1:M:433:LEU:HB3	1:M:434:PRO:HD3	1.95	0.48
1:M:573:GLN:HB2	1:M:602:CYS:O	2.14	0.48
1:M:873:ALA:O	1:M:876:THR:HG22	2.14	0.48
1:N:433:LEU:HB3	1:N:434:PRO:HD3	1.95	0.48
1:O:65:ALA:CB	1:O:66:PRO:HD2	2.33	0.48
1:P:14:ARG:HG2	1:P:16:TRP:CZ2	2.48	0.48
1:A:11:LEU:N	1:A:11:LEU:CD2	2.76	0.48
1:A:282:ARG:HB2	1:D:423:MET:H	1.79	0.48
1:B:14:ARG:HA	1:B:16:TRP:CZ3	2.49	0.48
1:B:573:GLN:HB2	1:B:602:CYS:O	2.14	0.48
1:C:73:TRP:CZ2	1:C:185:ALA:HB1	2.48	0.48
1:C:894:ARG:NH1	1:C:919:ASP:OD2	2.47	0.48
1:A:282:ARG:HB2	1:D:423:MET:N	2.28	0.48
1:E:479:ASP:HA	1:E:480:PRO:HD2	1.55	0.48
1:F:35:SER:O	1:F:50:GLN:HG3	2.13	0.48
1:F:987:ASP:OD2	1:F:990:HIS:HD2	1.96	0.48
1:I:35:SER:O	1:I:50:GLN:HG3	2.13	0.48
1:I:573:GLN:HB2	1:I:602:CYS:O	2.14	0.48
1:K:822:LEU:HD11	1:K:824:GLN:O	2.14	0.48
1:L:131:GLU:O	1:L:132:SER:C	2.51	0.48
1:L:147:ASN:HA	1:L:148:SER:HA	1.63	0.48
1:L:14:ARG:HA	1:L:16:TRP:CZ3	2.49	0.48
1:L:673:ALA:O	1:L:674:PRO:C	2.52	0.48
1:L:873:ALA:O	1:L:876:THR:HG22	2.14	0.48
1:L:894:ARG:NH1	1:L:919:ASP:OD2	2.47	0.48
1:O:35:SER:O	1:O:50:GLN:HG3	2.13	0.48
1:P:147:ASN:HA	1:P:148:SER:HA	1.64	0.48
1:P:433:LEU:HB3	1:P:434:PRO:HD3	1.95	0.48
1:P:573:GLN:HB2	1:P:602:CYS:O	2.14	0.48
1:P:894:ARG:NH1	1:P:919:ASP:OD2	2.47	0.48
1:P:952:ARG:HG2	1:P:952:ARG:NH1	2.29	0.48
1:A:254:LEU:O	1:A:255:ARG:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:73:TRP:CZ2	1:A:185:ALA:HB1	2.48	0.47
1:C:679:LEU:HD23	1:C:679:LEU:N	2.25	0.47
1:C:910:LEU:HD12	1:C:910:LEU:C	2.33	0.47
1:D:952:ARG:HG2	1:D:952:ARG:NH1	2.29	0.47
1:F:569:ASP:O	1:F:605:GLY:HA2	2.13	0.47
1:F:73:TRP:CE2	1:F:122:CYS:HB3	2.48	0.47
1:I:910:LEU:C	1:I:910:LEU:HD12	2.33	0.47
1:K:1004:SER:OG	1:K:1006:GLU:OE2	2.30	0.47
1:K:73:TRP:CE2	1:K:122:CYS:HB3	2.48	0.47
1:L:1020:TRP:CD1	1:L:1021:CME:N	2.80	0.47
1:L:901:GLY:HA3	1:L:902:PRO:HA	1.68	0.47
1:M:822:LEU:HD11	1:M:824:GLN:O	2.14	0.47
1:N:73:TRP:CZ2	1:N:185:ALA:HB1	2.48	0.47
1:N:513:PRO:O	1:N:514:ALA:HB3	2.13	0.47
1:N:901:GLY:HA3	1:N:902:PRO:HA	1.68	0.47
1:N:961:ARG:NH2	1:N:979:GLU:O	2.37	0.47
1:O:679:LEU:N	1:O:679:LEU:HD23	2.24	0.47
1:A:141:ILE:HA	1:A:214:LEU:HD23	1.97	0.47
1:A:610:ASP:OD2	1:A:612:THR:HG23	2.15	0.47
1:A:910:LEU:HD12	1:A:910:LEU:C	2.33	0.47
1:B:822:LEU:HD11	1:B:824:GLN:O	2.14	0.47
1:C:822:LEU:HD11	1:C:824:GLN:O	2.14	0.47
1:D:237:ARG:HB2	1:D:237:ARG:HE	1.48	0.47
1:E:873:ALA:O	1:E:876:THR:HG22	2.14	0.47
1:E:894:ARG:NH1	1:E:919:ASP:OD2	2.47	0.47
1:E:952:ARG:HG2	1:E:952:ARG:NH1	2.29	0.47
1:F:1004:SER:OG	1:F:1006:GLU:OE2	2.30	0.47
1:F:131:GLU:O	1:F:132:SER:C	2.51	0.47
1:F:433:LEU:HB3	1:F:434:PRO:HD3	1.95	0.47
1:G:777:LEU:CD2	1:G:889:ALA:HA	2.39	0.47
1:G:894:ARG:NH1	1:G:919:ASP:OD2	2.47	0.47
1:H:894:ARG:NH1	1:H:919:ASP:OD2	2.47	0.47
1:I:433:LEU:HB3	1:I:434:PRO:HD3	1.95	0.47
1:I:513:PRO:O	1:I:514:ALA:HB3	2.13	0.47
1:I:961:ARG:NH2	1:I:979:GLU:O	2.37	0.47
1:L:961:ARG:NH2	1:L:979:GLU:O	2.37	0.47
1:M:894:ARG:NH1	1:M:919:ASP:OD2	2.47	0.47
1:N:145:GLY:HA3	1:N:210:ARG:HG3	1.95	0.47
1:N:773:LYS:HZ2	1:N:773:LYS:HB2	1.78	0.47
1:P:952:ARG:NH1	1:P:952:ARG:CG	2.76	0.47
1:P:4:THR:CA	1:P:9:VAL:HG11	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:873:ALA:O	1:A:876:THR:HG22	2.14	0.47
1:B:987:ASP:OD2	1:B:990:HIS:HD2	1.96	0.47
1:C:14:ARG:HA	1:C:16:TRP:CZ3	2.49	0.47
1:D:773:LYS:HB2	1:D:773:LYS:HZ1	1.79	0.47
1:G:141:ILE:HA	1:G:214:LEU:HD23	1.97	0.47
1:G:573:GLN:HB2	1:G:602:CYS:O	2.14	0.47
1:G:679:LEU:N	1:G:679:LEU:HD23	2.24	0.47
1:G:78:LEU:HB3	1:G:79:PRO:CD	2.41	0.47
1:G:873:ALA:O	1:G:876:THR:HG22	2.14	0.47
1:H:141:ILE:HA	1:H:214:LEU:HD23	1.97	0.47
1:H:254:LEU:O	1:H:255:ARG:HG2	2.14	0.47
1:I:131:GLU:O	1:I:132:SER:C	2.51	0.47
1:J:145:GLY:HA3	1:J:210:ARG:HG3	1.95	0.47
1:J:73:TRP:CZ2	1:J:185:ALA:HB1	2.48	0.47
1:J:260:LEU:HD12	1:J:260:LEU:HA	1.70	0.47
1:J:317:THR:HG23	1:J:323:ILE:HD11	1.96	0.47
1:J:873:ALA:O	1:J:876:THR:HG22	2.14	0.47
1:J:894:ARG:NH1	1:J:919:ASP:OD2	2.47	0.47
1:J:952:ARG:NH1	1:J:952:ARG:CG	2.76	0.47
1:K:14:ARG:HA	1:K:16:TRP:CZ3	2.49	0.47
1:K:777:LEU:CD2	1:K:889:ALA:HA	2.39	0.47
1:L:254:LEU:O	1:L:255:ARG:HG2	2.14	0.47
1:M:952:ARG:NH1	1:M:952:ARG:HG2	2.29	0.47
1:N:131:GLU:O	1:N:132:SER:C	2.51	0.47
1:N:66:PRO:HB3	1:N:187:MET:HE1	1.95	0.47
1:N:73:TRP:CE2	1:N:122:CYS:HB3	2.48	0.47
1:N:894:ARG:NH1	1:N:919:ASP:OD2	2.47	0.47
1:O:141:ILE:HA	1:O:214:LEU:HD23	1.96	0.47
1:O:254:LEU:O	1:O:255:ARG:HG2	2.14	0.47
1:O:822:LEU:HD11	1:O:824:GLN:O	2.14	0.47
1:P:317:THR:HG23	1:P:323:ILE:HD11	1.96	0.47
1:A:822:LEU:HD11	1:A:824:GLN:O	2.14	0.47
1:B:569:ASP:O	1:B:605:GLY:HA2	2.13	0.47
1:B:610:ASP:O	1:B:611:ARG:HB2	2.12	0.47
1:C:317:THR:HG23	1:C:323:ILE:HD11	1.96	0.47
1:C:573:GLN:HB2	1:C:602:CYS:O	2.14	0.47
1:D:433:LEU:HB3	1:D:434:PRO:HD3	1.95	0.47
1:E:14:ARG:HA	1:E:16:TRP:CZ3	2.49	0.47
1:E:569:ASP:O	1:E:605:GLY:HA2	2.13	0.47
1:F:145:GLY:HA3	1:F:210:ARG:HG3	1.95	0.47
1:F:66:PRO:HB3	1:F:187:MET:HE1	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:427:THR:HA	1:F:436:MET:HE2	1.88	0.47
1:H:66:PRO:HB3	1:H:187:MET:HE1	1.95	0.47
1:H:772:ASP:OD1	1:H:772:ASP:N	2.39	0.47
1:I:145:GLY:HA3	1:I:210:ARG:HG3	1.96	0.47
1:I:254:LEU:O	1:I:255:ARG:HG2	2.14	0.47
1:I:256:VAL:HG12	1:I:257:THR:N	2.29	0.47
1:I:612:THR:HA	1:I:613:PRO:HD3	1.67	0.47
1:K:118:ASN:HA	1:K:119:PRO:HD2	1.61	0.47
1:L:610:ASP:OD2	1:L:612:THR:HG23	2.15	0.47
1:L:952:ARG:NH1	1:L:952:ARG:HG2	2.29	0.47
1:M:145:GLY:HA3	1:M:210:ARG:HG3	1.96	0.47
1:M:317:THR:HG23	1:M:323:ILE:HD11	1.96	0.47
1:M:576:ILE:CG2	1:M:577:LYS:N	2.77	0.47
1:M:825:CYS:HA	1:M:837:THR:O	2.13	0.47
1:N:610:ASP:OD2	1:N:612:THR:HG23	2.15	0.47
1:N:685:LEU:HA	1:N:686:PRO:HD3	1.66	0.47
1:O:173:LEU:HD23	1:O:173:LEU:HA	1.52	0.47
1:O:873:ALA:O	1:O:876:THR:HG22	2.14	0.47
1:A:1018:LEU:HA	1:A:1018:LEU:HD23	1.52	0.47
1:B:1018:LEU:HA	1:B:1018:LEU:HD23	1.52	0.47
1:B:317:THR:HG23	1:B:323:ILE:HD11	1.96	0.47
1:B:610:ASP:OD2	1:B:612:THR:HG23	2.15	0.47
1:B:847:LYS:HZ3	1:B:875:ASP:CG	2.18	0.47
1:B:856:TYR:CD2	1:B:864:MET:HE2	2.50	0.47
1:C:513:PRO:O	1:C:514:ALA:HB3	2.13	0.47
1:D:251:ARG:CB	1:D:253:TYR:CE2	2.97	0.47
1:D:610:ASP:OD2	1:D:612:THR:HG23	2.15	0.47
1:D:894:ARG:NH1	1:D:919:ASP:OD2	2.47	0.47
1:E:317:THR:HG23	1:E:323:ILE:HD11	1.96	0.47
1:F:118:ASN:HA	1:F:119:PRO:HD2	1.61	0.47
1:F:873:ALA:O	1:F:876:THR:HG22	2.14	0.47
1:F:901:GLY:HA3	1:F:902:PRO:HA	1.68	0.47
1:G:189:LEU:CD2	1:G:189:LEU:N	2.75	0.47
1:G:287:ASP:N	1:G:287:ASP:OD1	2.30	0.47
1:G:433:LEU:HB3	1:G:434:PRO:HD3	1.95	0.47
1:H:573:GLN:HB2	1:H:602:CYS:O	2.14	0.47
1:H:610:ASP:OD2	1:H:612:THR:HG23	2.15	0.47
1:H:777:LEU:HD21	1:H:889:ALA:CA	2.40	0.47
1:I:777:LEU:HD21	1:I:889:ALA:CA	2.40	0.47
1:I:822:LEU:HD11	1:I:824:GLN:O	2.14	0.47
1:J:597:ASN:HD22	1:J:599:ARG:H	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:894:ARG:NH1	1:K:919:ASP:OD2	2.47	0.47
1:K:952:ARG:NH1	1:K:952:ARG:HG2	2.29	0.47
1:L:256:VAL:HG12	1:L:257:THR:N	2.29	0.47
1:O:856:TYR:HD2	1:O:864:MET:HE2	1.78	0.47
1:P:254:LEU:O	1:P:255:ARG:HG2	2.15	0.47
1:P:873:ALA:O	1:P:876:THR:HG22	2.14	0.47
1:A:894:ARG:NH1	1:A:919:ASP:OD2	2.47	0.47
1:C:251:ARG:CB	1:C:253:TYR:CE2	2.97	0.47
1:C:256:VAL:N	1:C:272:ALA:O	2.47	0.47
1:D:14:ARG:HA	1:D:16:TRP:CZ3	2.49	0.47
1:D:777:LEU:CD2	1:D:889:ALA:HA	2.39	0.47
1:E:260:LEU:HA	1:E:260:LEU:HD12	1.70	0.47
1:F:147:ASN:HA	1:F:148:SER:HA	1.63	0.47
1:F:513:PRO:O	1:F:514:ALA:HB3	2.13	0.47
1:F:682:LEU:HD23	1:F:682:LEU:HA	1.70	0.47
1:G:1020:TRP:CD1	1:G:1021:CME:N	2.80	0.47
1:G:14:ARG:HA	1:G:16:TRP:CZ3	2.49	0.47
1:G:825:CYS:HA	1:G:837:THR:O	2.13	0.47
1:G:952:ARG:NH1	1:G:952:ARG:CG	2.76	0.47
1:H:237:ARG:HB2	1:H:237:ARG:HE	1.48	0.47
1:I:583:ASN:HA	1:I:584:PRO:HD3	1.79	0.47
1:J:14:ARG:HA	1:J:16:TRP:CZ3	2.49	0.47
1:J:254:LEU:O	1:J:255:ARG:HG2	2.15	0.47
1:J:256:VAL:HG12	1:J:257:THR:N	2.29	0.47
1:K:317:THR:HG23	1:K:323:ILE:HD11	1.96	0.47
1:K:673:ALA:O	1:K:674:PRO:C	2.52	0.47
1:K:873:ALA:O	1:K:876:THR:HG22	2.14	0.47
1:M:597:ASN:HD22	1:M:599:ARG:H	1.62	0.47
1:N:251:ARG:CB	1:N:253:TYR:CE2	2.97	0.47
1:N:254:LEU:O	1:N:255:ARG:HG2	2.15	0.47
1:N:256:VAL:HG12	1:N:257:THR:N	2.29	0.47
1:N:679:LEU:HD23	1:N:679:LEU:N	2.24	0.47
1:O:952:ARG:CG	1:O:952:ARG:NH1	2.76	0.47
1:P:1018:LEU:HD23	1:P:1018:LEU:HA	1.52	0.47
1:P:141:ILE:HA	1:P:214:LEU:HD23	1.97	0.47
1:P:256:VAL:HG12	1:P:257:THR:N	2.29	0.47
1:C:254:LEU:O	1:C:255:ARG:HG2	2.15	0.47
1:C:610:ASP:OD2	1:C:612:THR:HG23	2.15	0.47
1:D:952:ARG:CG	1:D:952:ARG:NH1	2.76	0.47
1:E:145:GLY:HA3	1:E:210:ARG:HG3	1.95	0.47
1:F:134:LEU:CD1	1:F:179:ALA:HA	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:254:LEU:O	1:F:255:ARG:HG2	2.15	0.47
1:G:576:ILE:CG2	1:G:577:LYS:N	2.77	0.47
1:H:317:THR:HG23	1:H:323:ILE:HD11	1.96	0.47
1:H:670:LEU:HA	1:H:670:LEU:HD23	1.66	0.47
1:I:141:ILE:HA	1:I:214:LEU:HD23	1.97	0.47
1:M:1018:LEU:HA	1:M:1018:LEU:HD23	1.52	0.47
1:M:131:GLU:O	1:M:132:SER:C	2.51	0.47
1:M:610:ASP:OD2	1:M:612:THR:HG23	2.15	0.47
1:N:906:TYR:HB3	1:N:907:PRO:CD	2.45	0.47
1:O:317:THR:HG23	1:O:323:ILE:HD11	1.96	0.47
1:O:433:LEU:HB3	1:O:434:PRO:HD3	1.95	0.47
1:O:513:PRO:O	1:O:514:ALA:HB3	2.13	0.47
1:P:610:ASP:OD2	1:P:612:THR:HG23	2.15	0.47
1:C:952:ARG:HG2	1:C:952:ARG:NH1	2.29	0.47
1:D:597:ASN:HD22	1:D:599:ARG:H	1.62	0.47
1:H:873:ALA:O	1:H:876:THR:HG22	2.14	0.47
1:I:610:ASP:OD2	1:I:612:THR:HG23	2.15	0.47
1:J:610:ASP:OD2	1:J:612:THR:HG23	2.15	0.47
1:K:256:VAL:HG12	1:K:257:THR:N	2.29	0.47
1:L:597:ASN:HD22	1:L:599:ARG:H	1.62	0.47
1:M:134:LEU:CD1	1:M:179:ALA:HA	2.45	0.47
1:M:254:LEU:O	1:M:255:ARG:HG2	2.14	0.47
1:M:378:LEU:HA	1:M:378:LEU:HD23	1.63	0.47
1:M:655:MET:O	1:M:655:MET:HG3	2.14	0.47
1:N:777:LEU:HD21	1:N:889:ALA:CA	2.40	0.47
1:O:14:ARG:HA	1:O:16:TRP:CZ3	2.49	0.47
1:O:189:LEU:N	1:O:189:LEU:CD2	2.75	0.47
1:P:130:ASP:CG	1:P:132:SER:HB3	2.35	0.47
1:P:336:ARG:CG	1:P:336:ARG:HH11	2.26	0.47
1:A:906:TYR:HB3	1:A:907:PRO:CD	2.45	0.47
1:B:141:ILE:HA	1:B:214:LEU:HD23	1.96	0.47
1:B:66:PRO:HB3	1:B:187:MET:HE1	1.95	0.47
1:B:576:ILE:CG2	1:B:577:LYS:N	2.77	0.47
1:C:673:ALA:O	1:C:674:PRO:C	2.52	0.47
1:E:610:ASP:OD2	1:E:612:THR:HG23	2.15	0.47
1:G:254:LEU:O	1:G:255:ARG:HG2	2.14	0.47
1:G:317:THR:HG23	1:G:323:ILE:HD11	1.96	0.47
1:G:597:ASN:HD22	1:G:599:ARG:H	1.62	0.47
1:G:610:ASP:OD2	1:G:612:THR:HG23	2.15	0.47
1:G:661:LYS:HA	1:G:662:PRO:HD3	1.72	0.47
1:I:130:ASP:CG	1:I:132:SER:HB3	2.36	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:14:ARG:HA	1:I:16:TRP:CZ3	2.49	0.47
1:I:256:VAL:N	1:I:272:ALA:O	2.47	0.47
1:I:469:ASP:HB3	1:L:473:ARG:HD2	1.96	0.47
1:J:173:LEU:HA	1:J:173:LEU:HD23	1.53	0.47
1:K:906:TYR:HB3	1:K:907:PRO:CD	2.45	0.47
1:L:317:THR:HG23	1:L:323:ILE:HD11	1.96	0.47
1:L:856:TYR:CD2	1:L:864:MET:HE2	2.50	0.47
1:O:134:LEU:CD1	1:O:179:ALA:HA	2.45	0.47
1:O:576:ILE:CG2	1:O:577:LYS:N	2.77	0.47
1:A:130:ASP:CG	1:A:132:SER:HB3	2.36	0.47
1:C:145:GLY:HA3	1:C:210:ARG:HG3	1.96	0.47
1:D:362:LEU:HD23	1:D:362:LEU:HA	1.70	0.47
1:E:597:ASN:HD22	1:E:599:ARG:H	1.62	0.47
1:F:317:THR:HG23	1:F:323:ILE:HD11	1.96	0.47
1:F:822:LEU:HD11	1:F:824:GLN:O	2.14	0.47
1:F:869:ASP:OD2	1:F:1015:HIS:ND1	2.37	0.47
1:E:724:GLU:OE1	1:F:874:SER:HB3	2.15	0.47
1:F:970:THR:CG2	1:F:975:LEU:HB2	2.45	0.47
1:G:134:LEU:CD1	1:G:179:ALA:HA	2.45	0.47
1:G:3:ILE:HG23	1:G:4:THR:H	1.80	0.47
1:I:134:LEU:CD1	1:I:179:ALA:HA	2.45	0.47
1:I:138:GLN:N	1:I:217:LYS:O	2.33	0.47
1:J:141:ILE:HA	1:J:214:LEU:HD23	1.96	0.47
1:J:961:ARG:NH2	1:J:979:GLU:O	2.37	0.47
1:K:145:GLY:HA3	1:K:210:ARG:HG3	1.95	0.47
1:L:134:LEU:CD1	1:L:179:ALA:HA	2.45	0.47
1:M:14:ARG:HA	1:M:16:TRP:CZ3	2.49	0.47
1:M:708:TRP:CD1	1:M:708:TRP:N	2.83	0.47
1:N:14:ARG:HA	1:N:16:TRP:CZ3	2.50	0.47
1:O:256:VAL:HG12	1:O:257:THR:N	2.29	0.47
1:O:429:ASP:OD1	1:O:431:ARG:N	2.46	0.47
1:O:610:ASP:OD2	1:O:612:THR:HG23	2.15	0.47
1:P:256:VAL:N	1:P:272:ALA:O	2.47	0.47
1:A:147:ASN:HA	1:A:148:SER:HA	1.64	0.47
1:A:173:LEU:HD23	1:A:173:LEU:HA	1.53	0.47
1:A:3:ILE:HG23	1:A:4:THR:H	1.80	0.47
1:B:347:LYS:CB	1:B:348:PRO:HD2	2.43	0.47
1:B:952:ARG:NH1	1:B:952:ARG:HG2	2.29	0.47
1:D:130:ASP:CG	1:D:132:SER:HB3	2.36	0.47
1:D:147:ASN:HA	1:D:148:SER:HA	1.64	0.47
1:E:254:LEU:O	1:E:255:ARG:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:377:LEU:HD22	1:E:377:LEU:HA	1.69	0.47
1:E:970:THR:CG2	1:E:975:LEU:HB2	2.45	0.47
1:F:952:ARG:O	1:F:1018:LEU:HD23	2.15	0.47
1:F:14:ARG:HA	1:F:16:TRP:CZ3	2.49	0.47
1:G:256:VAL:HG12	1:G:257:THR:N	2.30	0.47
1:H:130:ASP:CG	1:H:132:SER:HB3	2.36	0.47
1:H:970:THR:CG2	1:H:975:LEU:HB2	2.45	0.47
1:I:317:THR:HG23	1:I:323:ILE:HD11	1.96	0.47
1:I:906:TYR:HB3	1:I:907:PRO:CD	2.45	0.47
1:K:131:GLU:O	1:K:132:SER:C	2.51	0.47
1:K:130:ASP:CG	1:K:132:SER:HB3	2.36	0.47
1:K:134:LEU:CD1	1:K:179:ALA:HA	2.45	0.47
1:K:597:ASN:HD22	1:K:599:ARG:H	1.62	0.47
1:K:708:TRP:N	1:K:708:TRP:CD1	2.83	0.47
1:L:92:MET:HE3	1:L:362:LEU:O	2.15	0.47
1:M:970:THR:CG2	1:M:975:LEU:HB2	2.45	0.47
1:N:134:LEU:CD1	1:N:179:ALA:HA	2.45	0.47
1:O:777:LEU:CD2	1:O:889:ALA:HA	2.39	0.47
1:O:970:THR:CG2	1:O:975:LEU:HB2	2.45	0.47
1:P:655:MET:O	1:P:655:MET:HG3	2.14	0.47
1:P:708:TRP:CD1	1:P:708:TRP:N	2.83	0.47
1:P:773:LYS:HB2	1:P:773:LYS:HZ2	1.76	0.47
1:A:429:ASP:HA	1:A:430:PRO:HD3	1.55	0.46
1:B:873:ALA:O	1:B:876:THR:HG22	2.14	0.46
1:C:778:THR:HB	1:C:887:GLN:H	1.81	0.46
1:D:873:ALA:O	1:D:876:THR:HG22	2.14	0.46
1:E:63:PHE:N	1:E:63:PHE:CD1	2.84	0.46
1:E:673:ALA:O	1:E:674:PRO:C	2.52	0.46
1:G:429:ASP:OD1	1:G:431:ARG:N	2.46	0.46
1:H:906:TYR:HB3	1:H:907:PRO:CD	2.45	0.46
1:H:920:LEU:HB3	1:H:921:PRO:CD	2.37	0.46
1:H:952:ARG:HG2	1:H:952:ARG:NH1	2.29	0.46
1:J:130:ASP:CG	1:J:132:SER:HB3	2.36	0.46
1:K:129:VAL:HG23	1:K:182:ASN:HD22	1.81	0.46
1:K:251:ARG:CB	1:K:253:TYR:CE2	2.97	0.46
1:K:3:ILE:HG23	1:K:4:THR:H	1.80	0.46
1:K:610:ASP:OD2	1:K:612:THR:HG23	2.15	0.46
1:L:429:ASP:OD1	1:L:431:ARG:N	2.46	0.46
1:L:576:ILE:CG2	1:L:577:LYS:N	2.77	0.46
1:N:317:THR:HG23	1:N:323:ILE:HD11	1.96	0.46
1:N:822:LEU:HD11	1:N:824:GLN:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:873:ALA:O	1:N:876:THR:HG22	2.14	0.46
1:O:1004:SER:OG	1:O:1006:GLU:OE2	2.30	0.46
1:O:597:ASN:HD22	1:O:599:ARG:H	1.62	0.46
1:O:778:THR:HB	1:O:887:GLN:H	1.81	0.46
1:A:214:LEU:HD23	1:A:214:LEU:HA	1.73	0.46
1:A:362:LEU:HD23	1:A:362:LEU:HA	1.70	0.46
1:A:63:PHE:N	1:A:63:PHE:CD1	2.84	0.46
1:B:84:VAL:CG1	1:B:85:VAL:N	2.79	0.46
1:C:256:VAL:HG12	1:C:257:THR:N	2.29	0.46
1:C:612:THR:HA	1:C:613:PRO:HD3	1.67	0.46
1:C:708:TRP:CD1	1:C:708:TRP:N	2.83	0.46
1:C:856:TYR:HD2	1:C:864:MET:HE2	1.80	0.46
1:D:856:TYR:HD2	1:D:864:MET:CE	2.29	0.46
1:D:906:TYR:HB3	1:D:907:PRO:CD	2.45	0.46
1:E:3:ILE:HG23	1:E:4:THR:H	1.80	0.46
1:E:856:TYR:HD2	1:E:864:MET:CE	2.29	0.46
1:E:952:ARG:O	1:E:1018:LEU:HD23	2.15	0.46
1:F:702:GLN:HA	1:F:703:PRO:HD2	1.78	0.46
1:F:952:ARG:NH1	1:F:952:ARG:HG2	2.29	0.46
1:G:256:VAL:N	1:G:272:ALA:O	2.47	0.46
1:G:63:PHE:CD1	1:G:63:PHE:N	2.83	0.46
1:G:778:THR:HB	1:G:887:GLN:H	1.81	0.46
1:G:952:ARG:O	1:G:1018:LEU:HD23	2.15	0.46
1:H:708:TRP:N	1:H:708:TRP:CD1	2.83	0.46
1:I:856:TYR:HD2	1:I:864:MET:CE	2.29	0.46
1:L:141:ILE:HA	1:L:214:LEU:HD23	1.97	0.46
1:L:571:VAL:HG13	1:L:607:VAL:CG2	2.44	0.46
1:N:378:LEU:HD23	1:N:378:LEU:HA	1.63	0.46
1:O:138:GLN:N	1:O:217:LYS:O	2.33	0.46
1:O:708:TRP:CD1	1:O:708:TRP:N	2.83	0.46
1:P:14:ARG:HA	1:P:16:TRP:CZ3	2.49	0.46
1:P:777:LEU:HD21	1:P:889:ALA:CA	2.40	0.46
1:P:970:THR:CG2	1:P:975:LEU:HB2	2.45	0.46
1:A:14:ARG:HA	1:A:16:TRP:CZ3	2.49	0.46
1:A:778:THR:HB	1:A:887:GLN:H	1.81	0.46
1:B:129:VAL:HG23	1:B:182:ASN:HD22	1.81	0.46
1:B:256:VAL:HG12	1:B:257:THR:N	2.29	0.46
1:B:282:ARG:HG3	1:C:423:MET:HB2	1.98	0.46
1:B:856:TYR:HD2	1:B:864:MET:CE	2.28	0.46
1:C:141:ILE:HA	1:C:214:LEU:HD23	1.96	0.46
1:C:718:GLN:NE2	1:C:719:GLN:H	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:777:LEU:HD21	1:C:889:ALA:CA	2.40	0.46
1:C:78:LEU:CB	1:C:79:PRO:HD2	2.41	0.46
1:E:131:GLU:O	1:E:132:SER:C	2.51	0.46
1:F:130:ASP:CG	1:F:132:SER:HB3	2.36	0.46
1:F:378:LEU:HA	1:F:378:LEU:HD23	1.63	0.46
1:G:651:LEU:HD13	1:G:651:LEU:HA	1.49	0.46
1:G:970:THR:CG2	1:G:975:LEU:HB2	2.45	0.46
1:H:778:THR:HB	1:H:887:GLN:H	1.81	0.46
1:I:655:MET:HG3	1:I:655:MET:O	2.14	0.46
1:I:708:TRP:CZ3	1:I:709:SER:HB3	2.51	0.46
1:I:873:ALA:O	1:I:876:THR:HG22	2.14	0.46
1:J:576:ILE:CG2	1:J:577:LYS:N	2.77	0.46
1:J:906:TYR:HB3	1:J:907:PRO:CD	2.45	0.46
1:K:260:LEU:HA	1:K:260:LEU:HD12	1.69	0.46
1:K:778:THR:HB	1:K:887:GLN:H	1.81	0.46
1:K:952:ARG:CG	1:K:952:ARG:NH1	2.76	0.46
1:K:970:THR:CG2	1:K:975:LEU:HB2	2.45	0.46
1:M:141:ILE:HA	1:M:214:LEU:HD23	1.97	0.46
1:M:63:PHE:CD1	1:M:63:PHE:N	2.84	0.46
1:M:856:TYR:HD2	1:M:864:MET:CE	2.28	0.46
1:M:84:VAL:CG1	1:M:85:VAL:N	2.79	0.46
1:N:673:ALA:O	1:N:674:PRO:C	2.52	0.46
1:N:952:ARG:NH1	1:N:952:ARG:HG2	2.29	0.46
1:O:952:ARG:O	1:O:1018:LEU:HD23	2.15	0.46
1:P:134:LEU:CD1	1:P:179:ALA:HA	2.45	0.46
1:P:906:TYR:HB3	1:P:907:PRO:CD	2.45	0.46
1:A:419:GLY:C	1:D:282:ARG:HH11	2.18	0.46
1:A:592:PHE:N	1:A:592:PHE:CD1	2.84	0.46
1:B:134:LEU:CD1	1:B:179:ALA:HA	2.45	0.46
1:B:254:LEU:O	1:B:255:ARG:HG2	2.15	0.46
1:B:757:GLN:O	1:B:765:LEU:HD12	2.16	0.46
1:C:952:ARG:O	1:C:1018:LEU:HD23	2.15	0.46
1:C:130:ASP:CG	1:C:132:SER:HB3	2.36	0.46
1:C:134:LEU:CD1	1:C:179:ALA:HA	2.45	0.46
1:D:131:GLU:O	1:D:132:SER:C	2.51	0.46
1:D:134:LEU:CD1	1:D:179:ALA:HA	2.45	0.46
1:D:145:GLY:HA3	1:D:210:ARG:HG3	1.96	0.46
1:D:138:GLN:N	1:D:217:LYS:O	2.33	0.46
1:D:254:LEU:O	1:D:255:ARG:HG2	2.15	0.46
1:E:141:ILE:HA	1:E:214:LEU:HD23	1.97	0.46
1:E:134:LEU:CD1	1:E:179:ALA:HA	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:571:VAL:HG13	1:E:607:VAL:CG2	2.44	0.46
1:E:718:GLN:NE2	1:E:719:GLN:H	2.14	0.46
1:E:777:LEU:HD21	1:E:889:ALA:CA	2.40	0.46
1:F:571:VAL:HG13	1:F:607:VAL:CG2	2.44	0.46
1:G:708:TRP:CZ3	1:G:709:SER:HB3	2.51	0.46
1:I:221:GLN:HB3	1:I:221:GLN:HE21	1.58	0.46
1:I:576:ILE:CG2	1:I:577:LYS:N	2.77	0.46
1:I:757:GLN:O	1:I:765:LEU:HD12	2.16	0.46
1:I:970:THR:CG2	1:I:975:LEU:HB2	2.45	0.46
1:J:134:LEU:CD1	1:J:179:ALA:HA	2.45	0.46
1:J:347:LYS:CB	1:J:348:PRO:HD2	2.43	0.46
1:K:718:GLN:NE2	1:K:719:GLN:H	2.14	0.46
1:L:129:VAL:HG23	1:L:182:ASN:HD22	1.81	0.46
1:L:63:PHE:N	1:L:63:PHE:CD1	2.83	0.46
1:L:970:THR:CG2	1:L:975:LEU:HB2	2.45	0.46
1:M:129:VAL:HG23	1:M:182:ASN:HD22	1.81	0.46
1:N:130:ASP:CG	1:N:132:SER:HB3	2.36	0.46
1:N:718:GLN:NE2	1:N:719:GLN:H	2.14	0.46
1:N:757:GLN:O	1:N:765:LEU:HD12	2.16	0.46
1:N:84:VAL:CG1	1:N:85:VAL:N	2.79	0.46
1:M:723:ALA:HB1	1:N:875:ASP:OD1	2.15	0.46
1:O:3:ILE:HG23	1:O:4:THR:H	1.80	0.46
1:P:378:LEU:HD23	1:P:378:LEU:HA	1.63	0.46
1:P:856:TYR:HD2	1:P:864:MET:CE	2.28	0.46
1:B:237:ARG:HE	1:B:237:ARG:HB2	1.48	0.46
1:C:3:ILE:HG23	1:C:4:THR:H	1.80	0.46
1:C:807:VAL:CG1	1:C:808:GLU:N	2.79	0.46
1:C:970:THR:CG2	1:C:975:LEU:HB2	2.45	0.46
1:D:3:ILE:HG23	1:D:4:THR:H	1.80	0.46
1:D:685:LEU:HA	1:D:686:PRO:HD3	1.66	0.46
1:D:718:GLN:NE2	1:D:719:GLN:H	2.13	0.46
1:E:708:TRP:CZ3	1:E:709:SER:HB3	2.51	0.46
1:E:757:GLN:O	1:E:765:LEU:HD12	2.16	0.46
1:E:807:VAL:CG1	1:E:808:GLU:N	2.79	0.46
1:F:718:GLN:NE2	1:F:719:GLN:H	2.14	0.46
1:F:84:VAL:CG1	1:F:85:VAL:N	2.79	0.46
1:G:130:ASP:CG	1:G:132:SER:HB3	2.36	0.46
1:G:718:GLN:NE2	1:G:719:GLN:H	2.14	0.46
1:G:757:GLN:O	1:G:765:LEU:HD12	2.16	0.46
1:G:856:TYR:HD2	1:G:864:MET:CE	2.28	0.46
1:I:952:ARG:O	1:I:1018:LEU:HD23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:129:VAL:HG23	1:I:182:ASN:HD22	1.81	0.46
1:I:18:ASN:HD22	1:I:21:VAL:HG23	1.80	0.46
1:I:3:ILE:HG23	1:I:4:THR:H	1.80	0.46
1:J:856:TYR:CD2	1:J:864:MET:HE2	2.50	0.46
1:K:78:LEU:HB3	1:K:79:PRO:CD	2.41	0.46
1:K:807:VAL:CG1	1:K:808:GLU:N	2.79	0.46
1:K:856:TYR:HD2	1:K:864:MET:CE	2.28	0.46
1:L:773:LYS:HZ1	1:L:773:LYS:HB2	1.77	0.46
1:M:708:TRP:CZ3	1:M:709:SER:HB3	2.51	0.46
1:N:952:ARG:O	1:N:1018:LEU:HD23	2.15	0.46
1:O:130:ASP:CG	1:O:132:SER:HB3	2.36	0.46
1:O:708:TRP:CZ3	1:O:709:SER:HB3	2.51	0.46
1:O:856:TYR:HD2	1:O:864:MET:CE	2.28	0.46
1:A:952:ARG:O	1:A:1018:LEU:HD23	2.15	0.46
1:A:254:LEU:HD23	1:A:254:LEU:HA	1.51	0.46
1:A:757:GLN:O	1:A:765:LEU:HD12	2.16	0.46
1:A:952:ARG:NH1	1:A:952:ARG:HG2	2.29	0.46
1:B:131:GLU:O	1:B:132:SER:C	2.51	0.46
1:B:63:PHE:CD1	1:B:63:PHE:N	2.84	0.46
1:B:702:GLN:HA	1:B:703:PRO:HD2	1.78	0.46
1:B:708:TRP:CZ3	1:B:709:SER:HB3	2.51	0.46
1:B:778:THR:HB	1:B:887:GLN:H	1.81	0.46
1:C:856:TYR:HD2	1:C:864:MET:CE	2.28	0.46
1:D:141:ILE:HA	1:D:214:LEU:HD23	1.97	0.46
1:D:336:ARG:CG	1:D:336:ARG:HH11	2.26	0.46
1:D:673:ALA:O	1:D:674:PRO:C	2.52	0.46
1:E:129:VAL:HG23	1:E:182:ASN:HD22	1.81	0.46
1:E:256:VAL:N	1:E:272:ALA:O	2.47	0.46
1:E:592:PHE:CD1	1:E:592:PHE:N	2.84	0.46
1:F:673:ALA:O	1:F:674:PRO:C	2.52	0.46
1:G:129:VAL:HG23	1:G:182:ASN:HD22	1.81	0.46
1:G:84:VAL:CG1	1:G:85:VAL:N	2.79	0.46
1:H:134:LEU:CD1	1:H:179:ALA:HA	2.45	0.46
1:H:718:GLN:NE2	1:H:719:GLN:H	2.14	0.46
1:H:807:VAL:CG1	1:H:808:GLU:N	2.79	0.46
1:H:84:VAL:CG1	1:H:85:VAL:N	2.79	0.46
1:I:807:VAL:CG1	1:I:808:GLU:N	2.79	0.46
1:J:3:ILE:HG23	1:J:4:THR:H	1.80	0.46
1:K:63:PHE:N	1:K:63:PHE:CD1	2.84	0.46
1:K:895:VAL:O	1:K:919:ASP:HA	2.16	0.46
1:N:970:THR:CG2	1:N:975:LEU:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:63:PHE:CD1	1:O:63:PHE:N	2.84	0.46
1:P:129:VAL:HG23	1:P:182:ASN:HD22	1.81	0.46
1:P:254:LEU:HD23	1:P:254:LEU:HA	1.51	0.46
1:P:952:ARG:O	1:P:1018:LEU:HD23	2.15	0.46
1:A:256:VAL:HG12	1:A:257:THR:N	2.29	0.46
1:A:718:GLN:NE2	1:A:719:GLN:H	2.14	0.46
1:A:856:TYR:HD2	1:A:864:MET:CE	2.28	0.46
1:B:3:ILE:HG23	1:B:4:THR:H	1.80	0.46
1:E:84:VAL:CG1	1:E:85:VAL:N	2.79	0.46
1:E:952:ARG:NH1	1:E:952:ARG:CG	2.76	0.46
1:F:576:ILE:CG2	1:F:577:LYS:N	2.77	0.46
1:F:610:ASP:OD2	1:F:612:THR:HG23	2.15	0.46
1:F:63:PHE:N	1:F:63:PHE:CD1	2.84	0.46
1:G:1018:LEU:HA	1:G:1018:LEU:HD23	1.52	0.46
1:G:227:VAL:CG1	1:G:228:ALA:N	2.79	0.46
1:G:592:PHE:N	1:G:592:PHE:CD1	2.84	0.46
1:H:952:ARG:O	1:H:1018:LEU:HD23	2.15	0.46
1:I:43:ARG:CG	1:I:43:ARG:HH11	2.13	0.46
1:J:970:THR:CG2	1:J:975:LEU:HB2	2.45	0.46
1:K:952:ARG:O	1:K:1018:LEU:HD23	2.15	0.46
1:K:141:ILE:HA	1:K:214:LEU:HD23	1.97	0.46
1:K:378:LEU:HA	1:K:378:LEU:HD23	1.63	0.46
1:L:130:ASP:CG	1:L:132:SER:HB3	2.35	0.46
1:L:476:LYS:HD2	1:L:476:LYS:HA	1.81	0.46
1:L:592:PHE:CD1	1:L:592:PHE:N	2.84	0.46
1:L:645:ARG:HH22	1:L:650:GLU:CD	2.19	0.46
1:L:658:LEU:N	1:L:661:LYS:O	2.39	0.46
1:M:3:ILE:HG23	1:M:4:THR:H	1.80	0.46
1:M:592:PHE:N	1:M:592:PHE:CD1	2.84	0.46
1:M:69:VAL:HA	1:M:70:PRO:HD3	1.87	0.46
1:N:807:VAL:CG1	1:N:808:GLU:N	2.79	0.46
1:O:869:ASP:OD2	1:O:1015:HIS:ND1	2.37	0.46
1:O:895:VAL:O	1:O:919:ASP:HA	2.16	0.46
1:P:718:GLN:NE2	1:P:719:GLN:H	2.13	0.46
1:A:317:THR:HG23	1:A:323:ILE:HD11	1.96	0.46
1:A:651:LEU:HD13	1:A:651:LEU:HA	1.49	0.46
1:A:740:LEU:HD13	1:A:749:ILE:HD12	1.98	0.46
1:A:78:LEU:HB3	1:A:79:PRO:CD	2.41	0.46
1:A:807:VAL:CG1	1:A:808:GLU:N	2.79	0.46
1:B:708:TRP:CD1	1:B:708:TRP:N	2.83	0.46
1:B:970:THR:CG2	1:B:975:LEU:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:257:THR:OG1	1:C:316:HIS:HE1	1.99	0.46
1:C:63:PHE:N	1:C:63:PHE:CD1	2.84	0.46
1:C:645:ARG:HH22	1:C:650:GLU:CD	2.19	0.46
1:D:757:GLN:O	1:D:765:LEU:HD12	2.16	0.46
1:D:84:VAL:CG1	1:D:85:VAL:N	2.79	0.46
1:D:952:ARG:O	1:D:1018:LEU:HD23	2.15	0.46
1:F:129:VAL:HG23	1:F:182:ASN:HD22	1.81	0.46
1:F:256:VAL:HG12	1:F:257:THR:N	2.29	0.46
1:F:856:TYR:HD2	1:F:864:MET:CE	2.28	0.46
1:G:670:LEU:HD23	1:G:670:LEU:HA	1.66	0.46
1:G:906:TYR:HB3	1:G:907:PRO:CD	2.45	0.46
1:H:1004:SER:OG	1:H:1006:GLU:OE2	2.30	0.46
1:H:227:VAL:CG1	1:H:228:ALA:N	2.79	0.46
1:H:3:ILE:HG23	1:H:4:THR:H	1.80	0.46
1:I:395:HIS:HA	1:I:396:PRO:HD3	1.51	0.46
1:J:63:PHE:CD1	1:J:63:PHE:N	2.84	0.46
1:J:670:LEU:HD23	1:J:670:LEU:HA	1.66	0.46
1:K:254:LEU:O	1:K:255:ARG:HG2	2.15	0.46
1:K:645:ARG:HH22	1:K:650:GLU:CD	2.20	0.46
1:L:708:TRP:CZ3	1:L:709:SER:HB3	2.51	0.46
1:L:757:GLN:O	1:L:765:LEU:HD12	2.16	0.46
1:M:256:VAL:HG12	1:M:257:THR:N	2.29	0.46
1:M:260:LEU:HA	1:M:260:LEU:HD12	1.70	0.46
1:M:777:LEU:CD2	1:M:889:ALA:HA	2.39	0.46
1:M:906:TYR:HB3	1:M:907:PRO:CD	2.45	0.46
1:M:952:ARG:O	1:M:1018:LEU:HD23	2.15	0.46
1:N:3:ILE:HG23	1:N:4:THR:H	1.80	0.46
1:O:129:VAL:HG23	1:O:182:ASN:HD22	1.81	0.46
1:O:257:THR:OG1	1:O:316:HIS:HE1	1.99	0.46
1:O:592:PHE:CD1	1:O:592:PHE:N	2.84	0.46
1:O:718:GLN:NE2	1:O:719:GLN:H	2.14	0.46
1:A:129:VAL:HG23	1:A:182:ASN:HD22	1.81	0.46
1:A:257:THR:OG1	1:A:316:HIS:HE1	1.99	0.46
1:A:895:VAL:O	1:A:919:ASP:HA	2.16	0.46
1:B:952:ARG:O	1:B:1018:LEU:HD23	2.15	0.46
1:C:287:ASP:OD1	1:C:287:ASP:N	2.31	0.46
1:D:317:THR:HG23	1:D:323:ILE:HD11	1.96	0.46
1:D:576:ILE:CG2	1:D:577:LYS:N	2.77	0.46
1:D:708:TRP:CD1	1:D:708:TRP:N	2.83	0.46
1:D:708:TRP:CZ3	1:D:709:SER:HB3	2.51	0.46
1:D:970:THR:CG2	1:D:975:LEU:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:256:VAL:HG12	1:E:257:THR:N	2.29	0.46
1:E:708:TRP:N	1:E:708:TRP:CD1	2.83	0.46
1:F:730:LEU:HA	1:F:731:PRO:HD3	1.78	0.46
1:G:138:GLN:N	1:G:217:LYS:O	2.33	0.46
1:H:129:VAL:HG23	1:H:182:ASN:HD22	1.81	0.46
1:H:63:PHE:CD1	1:H:63:PHE:N	2.83	0.46
1:H:856:TYR:HD2	1:H:864:MET:CE	2.28	0.46
1:I:173:LEU:HA	1:I:173:LEU:HD23	1.52	0.46
1:I:479:ASP:HA	1:I:480:PRO:HD2	1.55	0.46
1:J:655:MET:HG3	1:J:655:MET:O	2.14	0.46
1:J:807:VAL:CG1	1:J:808:GLU:N	2.79	0.46
1:J:778:THR:HB	1:J:887:GLN:H	1.81	0.46
1:L:685:LEU:HA	1:L:686:PRO:HD3	1.66	0.46
1:L:906:TYR:HB3	1:L:907:PRO:CD	2.45	0.46
1:M:256:VAL:N	1:M:272:ALA:O	2.47	0.46
1:M:718:GLN:NE2	1:M:719:GLN:H	2.14	0.46
1:M:856:TYR:CD2	1:M:864:MET:CE	2.99	0.46
1:O:856:TYR:CD2	1:O:864:MET:CE	2.99	0.46
1:O:84:VAL:CG1	1:O:85:VAL:N	2.79	0.46
1:O:856:TYR:CD2	1:O:864:MET:HE2	2.51	0.46
1:O:906:TYR:HB3	1:O:907:PRO:CD	2.45	0.46
1:P:227:VAL:CG1	1:P:228:ALA:N	2.79	0.46
1:P:807:VAL:CG1	1:P:808:GLU:N	2.79	0.46
1:P:856:TYR:CD2	1:P:864:MET:CE	2.99	0.46
1:A:227:VAL:CG1	1:A:228:ALA:N	2.79	0.46
1:A:708:TRP:CZ3	1:A:709:SER:HB3	2.51	0.46
1:A:970:THR:CG2	1:A:975:LEU:HB2	2.45	0.46
1:B:130:ASP:CG	1:B:132:SER:HB3	2.36	0.46
1:B:592:PHE:CD1	1:B:592:PHE:N	2.84	0.46
1:B:645:ARG:HH22	1:B:650:GLU:CD	2.19	0.46
1:B:718:GLN:NE2	1:B:719:GLN:H	2.13	0.46
1:C:173:LEU:HD23	1:C:173:LEU:HA	1.53	0.46
1:C:227:VAL:CG1	1:C:228:ALA:N	2.79	0.46
1:C:878:HIS:HA	1:C:879:PRO:HD3	1.74	0.46
1:E:395:HIS:HA	1:E:396:PRO:HD3	1.51	0.46
1:F:708:TRP:CZ3	1:F:709:SER:HB3	2.51	0.46
1:F:778:THR:HB	1:F:887:GLN:H	1.81	0.46
1:G:655:MET:O	1:G:655:MET:HG3	2.14	0.46
1:G:947:GLY:HA3	1:G:948:PRO:HD2	1.79	0.46
1:I:718:GLN:NE2	1:I:719:GLN:H	2.14	0.46
1:I:856:TYR:CD2	1:I:864:MET:CE	2.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:84:VAL:CG1	1:I:85:VAL:N	2.79	0.46
1:J:131:GLU:O	1:J:132:SER:C	2.51	0.46
1:J:257:THR:OG1	1:J:316:HIS:HE1	1.99	0.46
1:J:718:GLN:NE2	1:J:719:GLN:H	2.13	0.46
1:J:952:ARG:NH1	1:J:952:ARG:HG2	2.29	0.46
1:K:271:THR:HG22	1:K:272:ALA:N	2.31	0.46
1:K:272:ALA:HA	1:K:273:PRO:HD3	1.74	0.46
1:K:612:THR:HA	1:K:613:PRO:HD3	1.67	0.46
1:L:3:ILE:HG23	1:L:4:THR:H	1.80	0.46
1:L:718:GLN:NE2	1:L:719:GLN:H	2.14	0.46
1:M:571:VAL:HG13	1:M:607:VAL:CG2	2.44	0.46
1:M:757:GLN:O	1:M:765:LEU:HD12	2.16	0.46
1:N:173:LEU:HA	1:N:173:LEU:HD23	1.52	0.46
1:N:576:ILE:CG2	1:N:577:LYS:N	2.77	0.46
1:N:708:TRP:CZ3	1:N:709:SER:HB3	2.51	0.46
1:P:84:VAL:CG1	1:P:85:VAL:N	2.79	0.46
1:B:227:VAL:CG1	1:B:228:ALA:N	2.79	0.45
1:B:807:VAL:CG1	1:B:808:GLU:N	2.79	0.45
1:B:970:THR:HG23	1:B:975:LEU:HB2	1.98	0.45
1:C:131:GLU:O	1:C:132:SER:C	2.51	0.45
1:C:856:TYR:CD2	1:C:864:MET:CE	2.99	0.45
1:E:655:MET:HE3	1:E:655:MET:HB2	1.80	0.45
1:F:807:VAL:CG1	1:F:808:GLU:N	2.79	0.45
1:F:970:THR:HG23	1:F:975:LEU:HB2	1.98	0.45
1:G:479:ASP:HA	1:G:480:PRO:HD2	1.55	0.45
1:G:645:ARG:HH22	1:G:650:GLU:CD	2.19	0.45
1:G:708:TRP:CD1	1:G:708:TRP:N	2.83	0.45
1:I:63:PHE:N	1:I:63:PHE:CD1	2.84	0.45
1:J:304:GLU:OE1	1:J:644:PHE:N	2.43	0.45
1:J:757:GLN:O	1:J:765:LEU:HD12	2.16	0.45
1:L:952:ARG:O	1:L:1018:LEU:HD23	2.15	0.45
1:M:970:THR:HG23	1:M:975:LEU:HB2	1.99	0.45
1:N:655:MET:HG3	1:N:655:MET:O	2.14	0.45
1:O:655:MET:O	1:O:655:MET:HG3	2.14	0.45
1:O:757:GLN:O	1:O:765:LEU:HD12	2.16	0.45
1:O:952:ARG:NH1	1:O:952:ARG:HG2	2.29	0.45
1:O:970:THR:HG23	1:O:975:LEU:HB2	1.98	0.45
1:P:271:THR:HG22	1:P:272:ALA:N	2.31	0.45
1:P:856:TYR:CD2	1:P:864:MET:HE2	2.51	0.45
1:A:856:TYR:CD2	1:A:864:MET:CE	2.99	0.45
1:B:173:LEU:HA	1:B:173:LEU:HD23	1.53	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:257:THR:OG1	1:B:316:HIS:HE1	1.99	0.45
1:D:970:THR:HG23	1:D:975:LEU:HB2	1.99	0.45
1:E:130:ASP:CG	1:E:132:SER:HB3	2.36	0.45
1:E:257:THR:OG1	1:E:316:HIS:HE1	1.99	0.45
1:E:869:ASP:OD2	1:E:1015:HIS:ND1	2.37	0.45
1:E:970:THR:HG23	1:E:975:LEU:HB2	1.99	0.45
1:F:271:THR:HG22	1:F:272:ALA:N	2.32	0.45
1:F:645:ARG:HH22	1:F:650:GLU:CD	2.20	0.45
1:F:679:LEU:N	1:F:679:LEU:HD23	2.25	0.45
1:F:906:TYR:HB3	1:F:907:PRO:CD	2.45	0.45
1:F:895:VAL:O	1:F:919:ASP:HA	2.16	0.45
1:G:436:MET:HE1	1:G:467:ASN:ND2	2.29	0.45
1:G:856:TYR:CD2	1:G:864:MET:CE	2.99	0.45
1:G:952:ARG:NH1	1:G:952:ARG:HG2	2.29	0.45
1:G:970:THR:HG23	1:G:975:LEU:HB2	1.98	0.45
1:H:257:THR:OG1	1:H:316:HIS:HE1	1.99	0.45
1:H:271:THR:HG22	1:H:272:ALA:N	2.32	0.45
1:H:869:ASP:OD2	1:H:1015:HIS:ND1	2.37	0.45
1:I:254:LEU:HD23	1:I:254:LEU:HA	1.51	0.45
1:I:895:VAL:O	1:I:919:ASP:HA	2.16	0.45
1:J:1018:LEU:HD23	1:J:1018:LEU:HA	1.52	0.45
1:J:856:TYR:HD2	1:J:864:MET:CE	2.28	0.45
1:J:895:VAL:O	1:J:919:ASP:HA	2.16	0.45
1:J:970:THR:HG23	1:J:975:LEU:HB2	1.99	0.45
1:L:251:ARG:CB	1:L:253:TYR:CE2	2.98	0.45
1:L:730:LEU:HA	1:L:731:PRO:HD3	1.78	0.45
1:M:43:ARG:HH11	1:M:43:ARG:CG	2.13	0.45
1:N:141:ILE:HA	1:N:214:LEU:HD23	1.96	0.45
1:N:271:THR:HG22	1:N:272:ALA:N	2.32	0.45
1:O:429:ASP:HA	1:O:430:PRO:HD3	1.55	0.45
1:O:645:ARG:HH22	1:O:650:GLU:CD	2.19	0.45
1:P:1004:SER:OG	1:P:1006:GLU:OE2	2.30	0.45
1:P:92:MET:HE3	1:P:362:LEU:O	2.16	0.45
1:A:18:ASN:HD22	1:A:21:VAL:HG23	1.80	0.45
1:C:178:ARG:NH1	1:C:178:ARG:CB	2.78	0.45
1:C:271:THR:HG22	1:C:272:ALA:N	2.31	0.45
1:C:592:PHE:N	1:C:592:PHE:CD1	2.84	0.45
1:C:757:GLN:O	1:C:765:LEU:HD12	2.16	0.45
1:C:84:VAL:CG1	1:C:85:VAL:N	2.79	0.45
1:C:970:THR:HG23	1:C:975:LEU:HB2	1.98	0.45
1:D:256:VAL:HG12	1:D:257:THR:N	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:256:VAL:N	1:D:272:ALA:O	2.47	0.45
1:D:257:THR:OG1	1:D:316:HIS:HE1	1.99	0.45
1:E:1018:LEU:HA	1:E:1018:LEU:HD23	1.52	0.45
1:G:682:LEU:HA	1:G:682:LEU:HD23	1.70	0.45
1:H:14:ARG:HA	1:H:16:TRP:CZ3	2.49	0.45
1:H:740:LEU:HD13	1:H:749:ILE:HD12	1.98	0.45
1:H:824:GLN:O	1:H:838:THR:HA	2.17	0.45
1:M:130:ASP:CG	1:M:132:SER:HB3	2.36	0.45
1:M:347:LYS:HA	1:M:348:PRO:HD3	1.77	0.45
1:M:824:GLN:O	1:M:838:THR:HA	2.17	0.45
1:M:895:VAL:O	1:M:919:ASP:HA	2.16	0.45
1:M:92:MET:HE3	1:M:362:LEU:O	2.16	0.45
1:N:778:THR:HB	1:N:887:GLN:H	1.81	0.45
1:O:347:LYS:HA	1:O:348:PRO:HD3	1.77	0.45
1:O:682:LEU:HA	1:O:682:LEU:HD23	1.70	0.45
1:P:592:PHE:N	1:P:592:PHE:CD1	2.84	0.45
1:P:655:MET:HB2	1:P:655:MET:HE3	1.86	0.45
1:A:134:LEU:CD1	1:A:179:ALA:HA	2.45	0.45
1:A:801:ILE:C	1:A:801:ILE:HD12	2.37	0.45
1:B:895:VAL:O	1:B:919:ASP:HA	2.16	0.45
1:C:129:VAL:HG23	1:C:182:ASN:HD22	1.81	0.45
1:C:694:LEU:HD12	1:C:694:LEU:HA	1.73	0.45
1:E:801:ILE:C	1:E:801:ILE:HD12	2.37	0.45
1:G:272:ALA:HA	1:G:273:PRO:HD3	1.75	0.45
1:G:378:LEU:HA	1:G:378:LEU:HD23	1.63	0.45
1:H:645:ARG:HH22	1:H:650:GLU:CD	2.19	0.45
1:H:655:MET:HG3	1:H:655:MET:O	2.14	0.45
1:J:129:VAL:HG23	1:J:182:ASN:HD22	1.81	0.45
1:J:65:ALA:CB	1:J:66:PRO:HD2	2.33	0.45
1:J:682:LEU:HD23	1:J:682:LEU:HA	1.70	0.45
1:J:78:LEU:HB3	1:J:79:PRO:CD	2.41	0.45
1:K:757:GLN:O	1:K:765:LEU:HD12	2.16	0.45
1:L:377:LEU:HD22	1:L:377:LEU:HA	1.69	0.45
1:L:694:LEU:HA	1:L:694:LEU:HD12	1.73	0.45
1:L:856:TYR:CD2	1:L:864:MET:CE	2.99	0.45
1:L:856:TYR:HD2	1:L:864:MET:CE	2.29	0.45
1:M:377:LEU:HD22	1:M:377:LEU:HA	1.69	0.45
1:N:824:GLN:O	1:N:838:THR:HA	2.17	0.45
1:N:856:TYR:HD2	1:N:864:MET:CE	2.28	0.45
1:N:895:VAL:O	1:N:919:ASP:HA	2.16	0.45
1:N:970:THR:HG23	1:N:975:LEU:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:670:LEU:HD23	1:P:670:LEU:HA	1.66	0.45
1:A:336:ARG:CG	1:A:336:ARG:HH11	2.26	0.45
1:A:469:ASP:HB3	1:D:473:ARG:HD2	1.98	0.45
1:A:685:LEU:HA	1:A:686:PRO:HD3	1.66	0.45
1:A:722:LEU:HA	1:A:722:LEU:HD23	1.76	0.45
1:A:84:VAL:CG1	1:A:85:VAL:N	2.79	0.45
1:A:869:ASP:OD2	1:A:1015:HIS:ND1	2.37	0.45
1:A:970:THR:HG23	1:A:975:LEU:HB2	1.99	0.45
1:B:571:VAL:HG13	1:B:607:VAL:CG2	2.44	0.45
1:B:824:GLN:O	1:B:838:THR:HA	2.17	0.45
1:C:824:GLN:O	1:C:838:THR:HA	2.17	0.45
1:D:129:VAL:HG23	1:D:182:ASN:HD22	1.81	0.45
1:D:227:VAL:CG1	1:D:228:ALA:N	2.79	0.45
1:D:378:LEU:HD23	1:D:378:LEU:HA	1.63	0.45
1:D:856:TYR:HD2	1:D:864:MET:HE2	1.82	0.45
1:E:576:ILE:CG2	1:E:577:LYS:N	2.77	0.45
1:E:895:VAL:O	1:E:919:ASP:HA	2.16	0.45
1:F:251:ARG:CB	1:F:253:TYR:CE2	2.97	0.45
1:F:3:ILE:HG23	1:F:4:THR:H	1.80	0.45
1:F:856:TYR:CD2	1:F:864:MET:CE	2.99	0.45
1:G:131:GLU:O	1:G:132:SER:C	2.51	0.45
1:G:395:HIS:HA	1:G:396:PRO:HD3	1.51	0.45
1:H:856:TYR:CD2	1:H:864:MET:CE	2.99	0.45
1:I:655:MET:HE3	1:I:655:MET:HB2	1.86	0.45
1:J:271:THR:HG22	1:J:272:ALA:N	2.31	0.45
1:J:824:GLN:O	1:J:838:THR:HA	2.17	0.45
1:K:257:THR:OG1	1:K:316:HIS:HE1	1.99	0.45
1:K:708:TRP:CZ3	1:K:709:SER:HB3	2.51	0.45
1:K:824:GLN:O	1:K:838:THR:HA	2.17	0.45
1:K:84:VAL:CG1	1:K:85:VAL:N	2.79	0.45
1:L:670:LEU:HA	1:L:670:LEU:HD23	1.66	0.45
1:L:679:LEU:HD23	1:L:679:LEU:N	2.24	0.45
1:M:645:ARG:HH22	1:M:650:GLU:CD	2.20	0.45
1:M:778:THR:HB	1:M:887:GLN:H	1.81	0.45
1:M:418:HIS:O	1:P:282:ARG:CD	2.63	0.45
1:P:3:ILE:HG23	1:P:4:THR:H	1.80	0.45
1:A:378:LEU:HA	1:A:378:LEU:HD23	1.63	0.45
1:A:570:TRP:HD1	1:A:571:VAL:HG22	1.82	0.45
1:A:654:TRP:CE3	1:A:655:MET:HA	2.52	0.45
1:B:256:VAL:N	1:B:272:ALA:O	2.47	0.45
1:B:658:LEU:N	1:B:661:LYS:O	2.39	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:947:GLY:HA3	1:B:948:PRO:HD2	1.79	0.45
1:C:654:TRP:CE3	1:C:655:MET:HA	2.52	0.45
1:D:777:LEU:HD21	1:D:889:ALA:CA	2.40	0.45
1:D:801:ILE:HD12	1:D:801:ILE:C	2.37	0.45
1:D:856:TYR:CD2	1:D:864:MET:CE	2.99	0.45
1:E:43:ARG:HH11	1:E:43:ARG:CG	2.13	0.45
1:E:645:ARG:HH22	1:E:650:GLU:CD	2.20	0.45
1:E:740:LEU:HD13	1:E:749:ILE:HD12	1.98	0.45
1:F:141:ILE:HA	1:F:214:LEU:HD23	1.97	0.45
1:F:476:LYS:HA	1:F:476:LYS:HD2	1.81	0.45
1:F:654:TRP:CE3	1:F:655:MET:HA	2.52	0.45
1:G:895:VAL:O	1:G:919:ASP:HA	2.16	0.45
1:H:378:LEU:HA	1:H:378:LEU:HD23	1.63	0.45
1:H:592:PHE:N	1:H:592:PHE:CD1	2.84	0.45
1:H:708:TRP:CZ3	1:H:709:SER:HB3	2.51	0.45
1:I:178:ARG:NH1	1:I:178:ARG:CB	2.78	0.45
1:I:251:ARG:CB	1:I:253:TYR:CE2	2.98	0.45
1:I:308:LEU:HA	1:I:308:LEU:HD23	1.73	0.45
1:I:65:ALA:CB	1:I:66:PRO:HD2	2.33	0.45
1:I:970:THR:HG23	1:I:975:LEU:HB2	1.98	0.45
1:K:227:VAL:CG1	1:K:228:ALA:N	2.79	0.45
1:K:856:TYR:CD2	1:K:864:MET:CE	2.99	0.45
1:L:479:ASP:HA	1:L:480:PRO:HD2	1.55	0.45
1:L:807:VAL:CG1	1:L:808:GLU:N	2.79	0.45
1:L:824:GLN:O	1:L:838:THR:HA	2.17	0.45
1:L:970:THR:HG23	1:L:975:LEU:HB2	1.98	0.45
1:M:271:THR:HG22	1:M:272:ALA:N	2.32	0.45
1:N:856:TYR:CD2	1:N:864:MET:CE	2.99	0.45
1:O:227:VAL:CG1	1:O:228:ALA:N	2.79	0.45
1:O:260:LEU:HD12	1:O:260:LEU:HA	1.69	0.45
1:O:612:THR:HA	1:O:613:PRO:HD3	1.67	0.45
1:P:801:ILE:HD12	1:P:801:ILE:C	2.37	0.45
1:A:271:THR:HG22	1:A:272:ALA:N	2.31	0.45
1:B:131:GLU:O	1:B:134:LEU:N	2.50	0.45
1:B:100:TYR:OH	1:B:601:PHE:HB3	2.17	0.45
1:B:654:TRP:CE3	1:B:655:MET:HA	2.52	0.45
1:B:740:LEU:HD13	1:B:749:ILE:HD12	1.98	0.45
1:B:906:TYR:HB3	1:B:907:PRO:CD	2.45	0.45
1:C:65:ALA:CB	1:C:66:PRO:HD2	2.33	0.45
1:D:807:VAL:CG1	1:D:808:GLU:N	2.79	0.45
1:E:227:VAL:CG1	1:E:228:ALA:N	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:347:LYS:HA	1:E:348:PRO:HD3	1.77	0.45
1:E:778:THR:HB	1:E:887:GLN:H	1.81	0.45
1:F:757:GLN:O	1:F:765:LEU:HD12	2.16	0.45
1:F:947:GLY:HA3	1:F:948:PRO:HD2	1.79	0.45
1:G:257:THR:OG1	1:G:316:HIS:HE1	1.99	0.45
1:H:479:ASP:HA	1:H:480:PRO:HD2	1.55	0.45
1:H:654:TRP:CE3	1:H:655:MET:HA	2.52	0.45
1:H:801:ILE:HD12	1:H:801:ILE:C	2.37	0.45
1:I:1004:SER:OG	1:I:1006:GLU:OE2	2.30	0.45
1:I:778:THR:HB	1:I:887:GLN:H	1.81	0.45
1:J:571:VAL:HG13	1:J:607:VAL:CG2	2.44	0.45
1:J:708:TRP:CZ3	1:J:709:SER:HB3	2.51	0.45
1:J:740:LEU:HD13	1:J:749:ILE:HD12	1.98	0.45
1:K:237:ARG:HB2	1:K:237:ARG:HE	1.48	0.45
1:J:418:HIS:O	1:K:282:ARG:HD2	2.17	0.45
1:K:576:ILE:CG2	1:K:577:LYS:N	2.77	0.45
1:K:788:PRO:O	1:K:933:SER:HB2	2.17	0.45
1:L:336:ARG:CG	1:L:336:ARG:HH11	2.26	0.45
1:L:654:TRP:CE3	1:L:655:MET:HA	2.52	0.45
1:L:895:VAL:O	1:L:919:ASP:HA	2.16	0.45
1:M:131:GLU:O	1:M:134:LEU:N	2.50	0.45
1:M:37:ARG:NH2	1:M:216:HIS:O	2.50	0.45
1:M:807:VAL:CG1	1:M:808:GLU:N	2.79	0.45
1:P:257:THR:OG1	1:P:316:HIS:HE1	1.99	0.45
1:P:708:TRP:CZ3	1:P:709:SER:HB3	2.51	0.45
1:P:757:GLN:O	1:P:765:LEU:HD12	2.16	0.45
1:P:802:ASP:HA	1:P:803:PRO:HD3	1.88	0.45
1:A:579:ASP:N	1:A:583:ASN:O	2.47	0.45
1:A:100:TYR:OH	1:A:601:PHE:HB3	2.17	0.45
1:B:360:HIS:HA	1:B:361:PRO:HD3	1.81	0.45
1:B:570:TRP:HD1	1:B:571:VAL:HG22	1.82	0.45
1:B:655:MET:HB2	1:B:655:MET:HE3	1.81	0.45
1:C:708:TRP:CZ3	1:C:709:SER:HB3	2.51	0.45
1:D:131:GLU:O	1:D:134:LEU:N	2.50	0.45
1:D:655:MET:O	1:D:655:MET:HG3	2.14	0.45
1:D:824:GLN:O	1:D:838:THR:HA	2.17	0.45
1:D:895:VAL:O	1:D:919:ASP:HA	2.16	0.45
1:E:37:ARG:NH2	1:E:216:HIS:O	2.50	0.45
1:E:100:TYR:OH	1:E:601:PHE:HB3	2.17	0.45
1:G:788:PRO:O	1:G:933:SER:HB2	2.17	0.45
1:H:256:VAL:HG12	1:H:257:THR:N	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:256:VAL:N	1:H:272:ALA:O	2.47	0.45
1:E:282:ARG:HD2	1:H:418:HIS:O	2.16	0.45
1:I:257:THR:OG1	1:I:316:HIS:HE1	1.99	0.45
1:I:740:LEU:HD13	1:I:749:ILE:HD12	1.98	0.45
1:J:570:TRP:HD1	1:J:571:VAL:HG22	1.82	0.45
1:J:645:ARG:HH22	1:J:650:GLU:CD	2.19	0.45
1:J:952:ARG:O	1:J:1018:LEU:HD23	2.15	0.45
1:L:395:HIS:HA	1:L:396:PRO:HD3	1.51	0.45
1:L:778:THR:HB	1:L:887:GLN:H	1.81	0.45
1:M:178:ARG:NH1	1:M:178:ARG:CB	2.78	0.45
1:M:100:TYR:OH	1:M:601:PHE:HB3	2.17	0.45
1:M:801:ILE:HD12	1:M:801:ILE:C	2.37	0.45
1:N:645:ARG:HH22	1:N:650:GLU:CD	2.19	0.45
1:O:66:PRO:HB3	1:O:187:MET:HE1	1.98	0.45
1:O:788:PRO:O	1:O:933:SER:HB2	2.17	0.45
1:A:256:VAL:O	1:A:271:THR:HA	2.17	0.45
1:A:69:VAL:HA	1:A:70:PRO:HD3	1.87	0.45
1:A:947:GLY:HA3	1:A:948:PRO:HD2	1.79	0.45
1:B:147:ASN:HA	1:B:148:SER:HA	1.64	0.45
1:B:251:ARG:CB	1:B:253:TYR:CE2	2.97	0.45
1:D:37:ARG:NH2	1:D:216:HIS:O	2.50	0.45
1:D:855:THR:OG1	1:D:867:THR:HB	2.17	0.45
1:E:271:THR:HG22	1:E:272:ALA:N	2.32	0.45
1:E:824:GLN:O	1:E:838:THR:HA	2.17	0.45
1:F:256:VAL:N	1:F:272:ALA:O	2.47	0.45
1:F:395:HIS:HA	1:F:396:PRO:HD3	1.51	0.45
1:F:788:PRO:O	1:F:933:SER:HB2	2.17	0.45
1:G:173:LEU:HA	1:G:173:LEU:HD23	1.53	0.45
1:G:37:ARG:NH2	1:G:216:HIS:O	2.50	0.45
1:G:256:VAL:O	1:G:271:THR:HA	2.17	0.45
1:G:570:TRP:HD1	1:G:571:VAL:HG22	1.82	0.45
1:G:777:LEU:HD21	1:G:889:ALA:CA	2.40	0.45
1:G:807:VAL:CG1	1:G:808:GLU:N	2.79	0.45
1:H:131:GLU:O	1:H:134:LEU:N	2.50	0.45
1:H:227:VAL:HG13	1:H:240:LEU:CD1	2.39	0.45
1:H:256:VAL:O	1:H:271:THR:HA	2.17	0.45
1:I:645:ARG:NH2	1:I:650:GLU:OE2	2.50	0.45
1:J:377:LEU:HD22	1:J:377:LEU:HA	1.69	0.45
1:J:654:TRP:CE3	1:J:655:MET:HA	2.52	0.45
1:J:856:TYR:CD2	1:J:864:MET:CE	2.99	0.45
1:K:100:TYR:OH	1:K:601:PHE:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:256:VAL:N	1:N:272:ALA:O	2.47	0.45
1:N:654:TRP:CE3	1:N:655:MET:HA	2.52	0.45
1:N:801:ILE:HD12	1:N:801:ILE:C	2.37	0.45
1:N:855:THR:OG1	1:N:867:THR:HB	2.17	0.45
1:O:131:GLU:O	1:O:134:LEU:N	2.50	0.45
1:O:570:TRP:HD1	1:O:571:VAL:HG22	1.82	0.45
1:O:654:TRP:CE3	1:O:655:MET:HA	2.52	0.45
1:O:748:CME:HZ2	1:O:755:ARG:HH11	1.82	0.45
1:O:824:GLN:O	1:O:838:THR:HA	2.17	0.45
1:O:855:THR:OG1	1:O:867:THR:HB	2.17	0.45
1:P:131:GLU:O	1:P:134:LEU:N	2.50	0.45
1:P:571:VAL:HG13	1:P:607:VAL:CG2	2.44	0.45
1:P:824:GLN:O	1:P:838:THR:HA	2.17	0.45
1:A:224:ASP:OD2	1:A:225:PHE:N	2.50	0.45
1:A:645:ARG:HH22	1:A:650:GLU:CD	2.20	0.45
1:B:178:ARG:NH1	1:B:178:ARG:CB	2.78	0.45
1:B:224:ASP:OD2	1:B:225:PHE:N	2.51	0.45
1:B:246:MET:HG2	1:B:274:PHE:CE2	2.52	0.45
1:B:37:ARG:NH2	1:B:216:HIS:O	2.50	0.45
1:B:670:LEU:HD23	1:B:670:LEU:HA	1.66	0.45
1:B:856:TYR:CD2	1:B:864:MET:CE	2.99	0.45
1:C:246:MET:HG2	1:C:274:PHE:CE2	2.52	0.45
1:C:906:TYR:HB3	1:C:907:PRO:CD	2.45	0.45
1:A:287:ASP:OD2	1:D:425:ARG:NH2	2.49	0.45
1:D:43:ARG:HH11	1:D:43:ARG:CG	2.13	0.45
1:D:778:THR:HB	1:D:887:GLN:H	1.81	0.45
1:D:901:GLY:HA3	1:D:902:PRO:HA	1.68	0.45
1:E:178:ARG:NH1	1:E:178:ARG:CB	2.78	0.45
1:E:256:VAL:O	1:E:271:THR:HA	2.17	0.45
1:E:856:TYR:CD2	1:E:864:MET:CE	2.99	0.45
1:F:1018:LEU:HD23	1:F:1018:LEU:HA	1.52	0.45
1:F:178:ARG:CB	1:F:178:ARG:NH1	2.78	0.45
1:F:479:ASP:HA	1:F:480:PRO:HD2	1.55	0.45
1:G:131:GLU:O	1:G:134:LEU:N	2.50	0.45
1:G:246:MET:HG2	1:G:274:PHE:CE2	2.52	0.45
1:G:100:TYR:OH	1:G:601:PHE:HB3	2.17	0.45
1:G:654:TRP:CE3	1:G:655:MET:HA	2.52	0.45
1:H:1000:SER:HA	1:H:1001:PRO:HD3	1.76	0.45
1:H:221:GLN:HE21	1:H:221:GLN:HB3	1.58	0.45
1:H:476:LYS:HA	1:H:476:LYS:HD2	1.81	0.45
1:I:227:VAL:CG1	1:I:228:ALA:N	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:271:THR:HG22	1:I:272:ALA:N	2.31	0.45
1:I:694:LEU:HA	1:I:694:LEU:HD12	1.73	0.45
1:J:131:GLU:O	1:J:134:LEU:N	2.50	0.45
1:J:138:GLN:N	1:J:217:LYS:O	2.33	0.45
1:J:227:VAL:CG1	1:J:228:ALA:N	2.79	0.45
1:J:84:VAL:CG1	1:J:85:VAL:N	2.79	0.45
1:K:748:CME:HZ2	1:K:755:ARG:HH11	1.82	0.45
1:M:362:LEU:HA	1:M:362:LEU:HD23	1.70	0.45
1:N:645:ARG:NH2	1:N:650:GLU:OE2	2.50	0.45
1:N:748:CME:HZ2	1:N:755:ARG:HH11	1.82	0.45
1:O:272:ALA:HA	1:O:273:PRO:HD3	1.75	0.45
1:O:378:LEU:HA	1:O:378:LEU:HD23	1.63	0.45
1:O:807:VAL:CG1	1:O:808:GLU:N	2.79	0.45
1:P:730:LEU:HA	1:P:731:PRO:HD3	1.78	0.45
1:P:772:ASP:N	1:P:772:ASP:OD1	2.39	0.45
1:P:778:THR:HB	1:P:887:GLN:H	1.81	0.45
1:A:131:GLU:O	1:A:134:LEU:N	2.50	0.44
1:A:217:LYS:NZ	1:A:326:GLU:OE2	2.50	0.44
1:A:612:THR:HA	1:A:613:PRO:HD3	1.67	0.44
1:A:824:GLN:O	1:A:838:THR:HA	2.17	0.44
1:A:788:PRO:O	1:A:933:SER:HB2	2.17	0.44
1:B:395:HIS:HA	1:B:396:PRO:HD3	1.51	0.44
1:B:423:MET:HB2	1:C:282:ARG:HG3	1.98	0.44
1:B:652:LEU:HD11	1:B:698:VAL:HB	2.00	0.44
1:C:224:ASP:OD2	1:C:225:PHE:N	2.50	0.44
1:C:571:VAL:HG13	1:C:607:VAL:CG2	2.44	0.44
1:E:224:ASP:OD2	1:E:225:PHE:N	2.51	0.44
1:E:906:TYR:HB3	1:E:907:PRO:CD	2.45	0.44
1:E:788:PRO:O	1:E:933:SER:HB2	2.17	0.44
1:F:131:GLU:O	1:F:134:LEU:N	2.50	0.44
1:F:224:ASP:OD2	1:F:225:PHE:N	2.50	0.44
1:F:592:PHE:CD1	1:F:592:PHE:N	2.84	0.44
1:G:571:VAL:HG13	1:G:607:VAL:CG2	2.44	0.44
1:G:824:GLN:O	1:G:838:THR:HA	2.17	0.44
1:I:429:ASP:OD1	1:I:431:ARG:N	2.46	0.44
1:I:654:TRP:CE3	1:I:655:MET:HA	2.52	0.44
1:I:801:ILE:HD12	1:I:801:ILE:C	2.37	0.44
1:J:592:PHE:CD1	1:J:592:PHE:N	2.84	0.44
1:J:708:TRP:CD1	1:J:708:TRP:N	2.83	0.44
1:J:855:THR:OG1	1:J:867:THR:HB	2.17	0.44
1:K:592:PHE:CD1	1:K:592:PHE:N	2.84	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:69:VAL:HA	1:K:70:PRO:HD3	1.87	0.44
1:L:84:VAL:CG1	1:L:85:VAL:N	2.79	0.44
1:L:788:PRO:O	1:L:933:SER:HB2	2.17	0.44
1:M:227:VAL:CG1	1:M:228:ALA:N	2.79	0.44
1:M:257:THR:OG1	1:M:316:HIS:HE1	1.99	0.44
1:M:740:LEU:HD13	1:M:749:ILE:HD12	1.98	0.44
1:N:11:LEU:N	1:N:11:LEU:CD2	2.76	0.44
1:N:131:GLU:O	1:N:134:LEU:N	2.50	0.44
1:N:256:VAL:O	1:N:271:THR:HA	2.17	0.44
1:N:257:THR:OG1	1:N:316:HIS:HE1	1.99	0.44
1:N:788:PRO:O	1:N:933:SER:HB2	2.17	0.44
1:O:571:VAL:HG13	1:O:607:VAL:CG2	2.44	0.44
1:P:256:VAL:O	1:P:271:THR:HA	2.17	0.44
1:P:645:ARG:HH22	1:P:650:GLU:CD	2.20	0.44
1:P:654:TRP:CE3	1:P:655:MET:HA	2.52	0.44
1:P:78:LEU:HB3	1:P:79:PRO:CD	2.41	0.44
1:P:895:VAL:O	1:P:919:ASP:HA	2.16	0.44
1:A:251:ARG:CB	1:A:253:TYR:CE2	2.97	0.44
1:A:464:HIS:N	5:A:2230:HOH:O	2.23	0.44
1:A:479:ASP:N	1:A:480:PRO:HD3	2.33	0.44
1:A:702:GLN:HA	1:A:703:PRO:HD2	1.78	0.44
1:A:855:THR:OG1	1:A:867:THR:HB	2.17	0.44
1:B:788:PRO:O	1:B:933:SER:HB2	2.17	0.44
1:C:855:THR:OG1	1:C:867:THR:HB	2.17	0.44
1:C:895:VAL:O	1:C:919:ASP:HA	2.16	0.44
1:D:361:PRO:HB2	1:D:576:ILE:HD12	2.00	0.44
1:D:645:ARG:HH22	1:D:650:GLU:CD	2.20	0.44
1:E:131:GLU:O	1:E:134:LEU:N	2.50	0.44
1:F:227:VAL:HG13	1:F:240:LEU:CD1	2.39	0.44
1:F:217:LYS:NZ	1:F:326:GLU:OE2	2.50	0.44
1:G:224:ASP:OD2	1:G:225:PHE:N	2.51	0.44
1:H:246:MET:HG2	1:H:274:PHE:CE2	2.52	0.44
1:H:757:GLN:O	1:H:765:LEU:HD12	2.16	0.44
1:I:131:GLU:O	1:I:134:LEU:N	2.50	0.44
1:I:224:ASP:OD2	1:I:225:PHE:N	2.50	0.44
1:I:217:LYS:NZ	1:I:326:GLU:OE2	2.50	0.44
1:I:487:GLU:HG2	1:I:491:ALA:HB2	1.99	0.44
1:J:13:ARG:O	1:J:14:ARG:HB2	2.17	0.44
1:J:308:LEU:HA	1:J:308:LEU:HD23	1.73	0.44
1:J:378:LEU:HD23	1:J:378:LEU:HA	1.63	0.44
1:K:131:GLU:O	1:K:134:LEU:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:655:MET:HB2	1:K:655:MET:HE3	1.86	0.44
1:K:679:LEU:N	1:K:679:LEU:HD23	2.24	0.44
1:K:801:ILE:C	1:K:801:ILE:HD12	2.37	0.44
1:K:970:THR:HG23	1:K:975:LEU:HB2	1.98	0.44
1:L:246:MET:HG2	1:L:274:PHE:CE2	2.52	0.44
1:L:855:THR:OG1	1:L:867:THR:HB	2.17	0.44
1:M:251:ARG:CB	1:M:253:TYR:CE2	2.97	0.44
1:M:217:LYS:NZ	1:M:326:GLU:OE2	2.50	0.44
1:N:178:ARG:NH1	1:N:178:ARG:CB	2.78	0.44
1:N:227:VAL:CG1	1:N:228:ALA:N	2.79	0.44
1:N:570:TRP:HD1	1:N:571:VAL:HG22	1.82	0.44
1:O:221:GLN:HB3	1:O:221:GLN:HE21	1.58	0.44
1:O:224:ASP:OD2	1:O:225:PHE:N	2.50	0.44
1:O:652:LEU:HD11	1:O:698:VAL:HB	2.00	0.44
1:O:740:LEU:HD13	1:O:749:ILE:HD12	1.98	0.44
1:P:260:LEU:HA	1:P:260:LEU:HD12	1.70	0.44
1:P:63:PHE:CD1	1:P:63:PHE:N	2.84	0.44
1:A:37:ARG:NH2	1:A:216:HIS:O	2.50	0.44
1:A:237:ARG:HB2	1:A:237:ARG:HE	1.48	0.44
1:A:361:PRO:HB2	1:A:576:ILE:HD12	2.00	0.44
1:A:487:GLU:HG2	1:A:491:ALA:HB2	1.99	0.44
1:B:256:VAL:O	1:B:271:THR:HA	2.17	0.44
1:B:436:MET:HE1	1:B:467:ASN:ND2	2.28	0.44
1:B:479:ASP:HA	1:B:480:PRO:HD2	1.55	0.44
1:C:378:LEU:HA	1:C:378:LEU:HD23	1.63	0.44
1:C:487:GLU:HG2	1:C:491:ALA:HB2	2.00	0.44
1:C:576:ILE:CG2	1:C:577:LYS:N	2.77	0.44
1:D:271:THR:HG22	1:D:272:ALA:N	2.32	0.44
1:D:429:ASP:OD1	1:D:431:ARG:N	2.46	0.44
1:D:479:ASP:N	1:D:480:PRO:HD3	2.33	0.44
1:D:748:CME:HZ2	1:D:755:ARG:HH11	1.82	0.44
1:E:748:CME:HZ2	1:E:755:ARG:HH11	1.82	0.44
1:F:637:GLU:HA	1:F:679:LEU:CD2	2.48	0.44
1:F:855:THR:OG1	1:F:867:THR:HB	2.17	0.44
1:G:217:LYS:NZ	1:G:326:GLU:OE2	2.50	0.44
1:G:652:LEU:HD11	1:G:698:VAL:HB	2.00	0.44
1:H:308:LEU:HA	1:H:308:LEU:HD23	1.73	0.44
1:I:336:ARG:CG	1:I:336:ARG:HH11	2.26	0.44
1:J:127:PHE:O	1:J:182:ASN:N	2.34	0.44
1:J:256:VAL:O	1:J:271:THR:HA	2.17	0.44
1:J:100:TYR:OH	1:J:601:PHE:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:679:LEU:N	1:J:679:LEU:HD23	2.24	0.44
1:K:127:PHE:O	1:K:182:ASN:N	2.34	0.44
1:K:429:ASP:OD1	1:K:431:ARG:N	2.46	0.44
1:K:655:MET:HG3	1:K:655:MET:O	2.14	0.44
1:K:652:LEU:HD11	1:K:698:VAL:HB	2.00	0.44
1:L:224:ASP:OD2	1:L:225:PHE:N	2.50	0.44
1:L:257:THR:OG1	1:L:316:HIS:HE1	1.99	0.44
1:L:378:LEU:HA	1:L:378:LEU:HD23	1.63	0.44
1:L:487:GLU:HG2	1:L:491:ALA:HB2	2.00	0.44
1:L:570:TRP:HD1	1:L:571:VAL:HG22	1.82	0.44
1:L:637:GLU:HA	1:L:679:LEU:CD2	2.48	0.44
1:L:878:HIS:HA	1:L:879:PRO:HD3	1.74	0.44
1:M:256:VAL:O	1:M:271:THR:HA	2.17	0.44
1:M:856:TYR:HD2	1:M:864:MET:HE2	1.82	0.44
1:N:637:GLU:HA	1:N:679:LEU:CD2	2.48	0.44
1:O:271:THR:HG22	1:O:272:ALA:N	2.32	0.44
1:O:217:LYS:NZ	1:O:326:GLU:OE2	2.50	0.44
1:O:479:ASP:N	1:O:480:PRO:HD3	2.33	0.44
1:O:100:TYR:OH	1:O:601:PHE:HB3	2.17	0.44
1:O:874:SER:HB3	1:P:724:GLU:OE1	2.18	0.44
1:P:246:MET:HG2	1:P:274:PHE:CE2	2.52	0.44
1:P:788:PRO:O	1:P:933:SER:HB2	2.17	0.44
1:A:246:MET:HG2	1:A:274:PHE:CE2	2.52	0.44
1:A:655:MET:HG3	1:A:655:MET:O	2.14	0.44
1:B:271:THR:HG22	1:B:272:ALA:N	2.32	0.44
1:B:272:ALA:HA	1:B:273:PRO:HD3	1.75	0.44
1:B:801:ILE:HD12	1:B:801:ILE:C	2.37	0.44
1:C:131:GLU:O	1:C:134:LEU:N	2.50	0.44
1:C:37:ARG:NH2	1:C:216:HIS:O	2.50	0.44
1:C:322:LEU:CD2	1:C:324:GLU:N	2.81	0.44
1:D:246:MET:HG2	1:D:274:PHE:CE2	2.52	0.44
1:E:570:TRP:HD1	1:E:571:VAL:HG22	1.82	0.44
1:E:652:LEU:HD11	1:E:698:VAL:HB	2.00	0.44
1:E:637:GLU:HA	1:E:679:LEU:CD2	2.48	0.44
1:F:227:VAL:CG1	1:F:228:ALA:N	2.79	0.44
1:F:246:MET:HG2	1:F:274:PHE:CE2	2.52	0.44
1:F:257:THR:OG1	1:F:316:HIS:HE1	1.99	0.44
1:F:567:VAL:HG12	1:F:568:TRP:N	2.33	0.44
1:F:570:TRP:HD1	1:F:571:VAL:HG22	1.82	0.44
1:F:801:ILE:HD12	1:F:801:ILE:C	2.37	0.44
1:F:824:GLN:O	1:F:838:THR:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:271:THR:HG22	1:G:272:ALA:N	2.32	0.44
1:G:740:LEU:HD13	1:G:749:ILE:HD12	1.99	0.44
1:H:576:ILE:CG2	1:H:577:LYS:N	2.77	0.44
1:H:773:LYS:HB2	1:H:773:LYS:HZ2	1.79	0.44
1:I:103:VAL:O	1:I:199:ASP:OD2	2.36	0.44
1:I:645:ARG:HH22	1:I:650:GLU:CD	2.19	0.44
1:I:637:GLU:HA	1:I:679:LEU:CD2	2.48	0.44
1:I:855:THR:OG1	1:I:867:THR:HB	2.17	0.44
1:J:1000:SER:HA	1:J:1001:PRO:HD3	1.76	0.44
1:J:251:ARG:CB	1:J:253:TYR:CE2	2.98	0.44
1:J:361:PRO:HB2	1:J:576:ILE:HD12	2.00	0.44
1:J:37:ARG:NH2	1:J:216:HIS:O	2.50	0.44
1:K:256:VAL:O	1:K:271:THR:HA	2.17	0.44
1:K:645:ARG:NH2	1:K:650:GLU:OE2	2.50	0.44
1:K:654:TRP:CE3	1:K:655:MET:HA	2.52	0.44
1:L:214:LEU:HA	1:L:214:LEU:HD23	1.73	0.44
1:L:256:VAL:O	1:L:271:THR:HA	2.17	0.44
1:M:13:ARG:O	1:M:14:ARG:HB2	2.17	0.44
1:M:246:MET:HG2	1:M:274:PHE:CE2	2.52	0.44
1:M:748:CME:HZ2	1:M:755:ARG:HH11	1.82	0.44
1:N:1018:LEU:HD23	1:N:1018:LEU:HA	1.52	0.44
1:N:254:LEU:HD23	1:N:254:LEU:HA	1.51	0.44
1:N:217:LYS:NZ	1:N:326:GLU:OE2	2.50	0.44
1:O:256:VAL:O	1:O:271:THR:HA	2.17	0.44
1:O:801:ILE:HD12	1:O:801:ILE:C	2.37	0.44
1:A:708:TRP:CD1	1:A:708:TRP:N	2.83	0.44
1:A:901:GLY:HA3	1:A:902:PRO:HA	1.68	0.44
1:B:18:ASN:HD22	1:B:21:VAL:HG23	1.80	0.44
1:B:655:MET:O	1:B:655:MET:HG3	2.14	0.44
1:C:570:TRP:HD1	1:C:571:VAL:HG22	1.82	0.44
1:D:224:ASP:OD2	1:D:225:PHE:N	2.51	0.44
1:E:246:MET:HG2	1:E:274:PHE:CE2	2.52	0.44
1:F:18:ASN:HD22	1:F:21:VAL:HG23	1.80	0.44
1:F:479:ASP:N	1:F:480:PRO:HD3	2.33	0.44
1:H:652:LEU:HD11	1:H:698:VAL:HB	2.00	0.44
1:H:69:VAL:HA	1:H:70:PRO:HD3	1.87	0.44
1:H:895:VAL:O	1:H:919:ASP:HA	2.16	0.44
1:I:322:LEU:CD2	1:I:324:GLU:N	2.81	0.44
1:I:748:CME:HZ2	1:I:755:ARG:HH11	1.82	0.44
1:I:824:GLN:O	1:I:838:THR:HA	2.17	0.44
1:J:661:LYS:HA	1:J:662:PRO:HD3	1.72	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:103:VAL:O	1:K:199:ASP:OD2	2.36	0.44
1:K:322:LEU:CD2	1:K:324:GLU:N	2.81	0.44
1:K:570:TRP:HD1	1:K:571:VAL:HG22	1.82	0.44
1:K:655:MET:HE2	1:K:656:VAL:H	1.80	0.44
1:L:131:GLU:O	1:L:134:LEU:N	2.50	0.44
1:L:583:ASN:HA	1:L:584:PRO:HD3	1.79	0.44
1:L:687:GLN:HA	1:L:688:PRO:HD3	1.75	0.44
1:L:702:GLN:HA	1:L:703:PRO:HD2	1.78	0.44
1:M:487:GLU:HG2	1:M:491:ALA:HB2	2.00	0.44
1:M:652:LEU:HD11	1:M:698:VAL:HB	2.00	0.44
1:O:246:MET:HG2	1:O:274:PHE:CE2	2.52	0.44
1:O:679:LEU:HA	1:O:679:LEU:HD23	1.49	0.44
1:P:679:LEU:HD23	1:P:679:LEU:HA	1.48	0.44
1:A:652:LEU:HD11	1:A:698:VAL:HB	2.00	0.44
1:A:748:CME:HZ2	1:A:755:ARG:HH11	1.82	0.44
1:C:103:VAL:O	1:C:199:ASP:OD2	2.36	0.44
1:C:217:LYS:NZ	1:C:326:GLU:OE2	2.50	0.44
1:C:655:MET:HE2	1:C:656:VAL:H	1.80	0.44
1:D:322:LEU:CD2	1:D:324:GLU:N	2.81	0.44
1:D:571:VAL:HG13	1:D:607:VAL:CG2	2.44	0.44
1:D:579:ASP:N	1:D:583:ASN:O	2.47	0.44
1:D:63:PHE:N	1:D:63:PHE:CD1	2.83	0.44
1:D:65:ALA:HB1	1:D:66:PRO:CD	2.41	0.44
1:E:149:ALA:O	1:E:150:PHE:HB3	2.18	0.44
1:E:251:ARG:CB	1:E:253:TYR:CE2	2.98	0.44
1:E:487:GLU:HG2	1:E:491:ALA:HB2	2.00	0.44
1:E:654:TRP:CE3	1:E:655:MET:HA	2.52	0.44
1:E:855:THR:OG1	1:E:867:THR:HB	2.17	0.44
1:F:847:LYS:HZ3	1:F:875:ASP:CG	2.21	0.44
1:G:103:VAL:O	1:G:199:ASP:OD2	2.36	0.44
1:F:282:ARG:HD3	1:G:420:MET:O	2.17	0.44
1:G:801:ILE:HD12	1:G:801:ILE:C	2.37	0.44
1:H:173:LEU:HA	1:H:173:LEU:HD23	1.52	0.44
1:H:46:ARG:CG	1:H:46:ARG:HH11	2.29	0.44
1:H:579:ASP:N	1:H:583:ASN:O	2.47	0.44
1:H:730:LEU:HA	1:H:731:PRO:HD3	1.78	0.44
1:H:855:THR:OG1	1:H:867:THR:HB	2.17	0.44
1:H:876:THR:OG1	1:H:877:PRO:HD2	2.18	0.44
1:I:37:ARG:NH2	1:I:216:HIS:O	2.50	0.44
1:I:53:SER:O	1:I:54:LEU:HD23	2.18	0.44
1:I:920:LEU:HB3	1:I:921:PRO:CD	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:788:PRO:O	1:J:933:SER:HB2	2.17	0.44
1:K:479:ASP:N	1:K:480:PRO:HD3	2.33	0.44
1:K:876:THR:OG1	1:K:877:PRO:HD2	2.18	0.44
1:L:149:ALA:O	1:L:150:PHE:HB3	2.18	0.44
1:L:103:VAL:O	1:L:199:ASP:OD2	2.36	0.44
1:L:227:VAL:CG1	1:L:228:ALA:N	2.79	0.44
1:L:271:THR:HG22	1:L:272:ALA:N	2.32	0.44
1:L:361:PRO:HB2	1:L:576:ILE:HD12	2.00	0.44
1:L:53:SER:O	1:L:54:LEU:HD23	2.18	0.44
1:L:65:ALA:HB1	1:L:66:PRO:CD	2.41	0.44
1:L:801:ILE:HD12	1:L:801:ILE:C	2.37	0.44
1:M:214:LEU:HA	1:M:214:LEU:HD23	1.73	0.44
1:M:570:TRP:HD1	1:M:571:VAL:HG22	1.82	0.44
1:M:654:TRP:CE3	1:M:655:MET:HA	2.52	0.44
1:M:876:THR:OG1	1:M:877:PRO:HD2	2.18	0.44
1:N:224:ASP:OD2	1:N:225:PHE:N	2.51	0.44
1:N:479:ASP:HA	1:N:480:PRO:HD2	1.55	0.44
1:N:567:VAL:HG12	1:N:568:TRP:N	2.33	0.44
1:N:592:PHE:N	1:N:592:PHE:CD1	2.84	0.44
1:O:149:ALA:O	1:O:150:PHE:HB3	2.18	0.44
1:P:322:LEU:CD2	1:P:324:GLU:N	2.81	0.44
1:P:100:TYR:OH	1:P:601:PHE:HB3	2.17	0.44
1:A:178:ARG:CB	1:A:178:ARG:NH1	2.78	0.44
1:A:694:LEU:HA	1:A:694:LEU:HD12	1.73	0.44
1:A:876:THR:OG1	1:A:877:PRO:HD2	2.18	0.44
1:B:53:SER:O	1:B:54:LEU:HD23	2.18	0.44
1:B:583:ASN:HA	1:B:584:PRO:HD3	1.79	0.44
1:B:876:THR:OG1	1:B:877:PRO:HD2	2.18	0.44
1:C:637:GLU:HA	1:C:679:LEU:CD2	2.48	0.44
1:C:748:CME:HZ2	1:C:755:ARG:HH11	1.82	0.44
1:C:901:GLY:HA3	1:C:902:PRO:HA	1.68	0.44
1:C:788:PRO:O	1:C:933:SER:HB2	2.17	0.44
1:D:592:PHE:N	1:D:592:PHE:CD1	2.84	0.44
1:D:740:LEU:HD13	1:D:749:ILE:HD12	1.98	0.44
1:D:802:ASP:HA	1:D:803:PRO:HD3	1.88	0.44
1:D:788:PRO:O	1:D:933:SER:HB2	2.17	0.44
1:E:361:PRO:HB2	1:E:576:ILE:HD12	2.00	0.44
1:E:655:MET:O	1:E:655:MET:HG3	2.14	0.44
1:E:777:LEU:CD2	1:E:889:ALA:HA	2.39	0.44
1:F:214:LEU:HA	1:F:214:LEU:HD23	1.73	0.44
1:F:37:ARG:NH2	1:F:216:HIS:O	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:251:ARG:CB	1:G:253:TYR:CE2	2.97	0.44
1:G:679:LEU:HA	1:G:679:LEU:HD23	1.48	0.44
1:G:722:LEU:HA	1:G:722:LEU:HD23	1.76	0.44
1:H:571:VAL:HG13	1:H:607:VAL:CG2	2.44	0.44
1:H:570:TRP:HD1	1:H:571:VAL:HG22	1.82	0.44
1:H:685:LEU:HA	1:H:686:PRO:HD3	1.66	0.44
1:H:694:LEU:HA	1:H:694:LEU:HD12	1.73	0.44
1:H:748:CME:HZ2	1:H:755:ARG:HH11	1.82	0.44
1:I:878:HIS:HA	1:I:879:PRO:HD3	1.74	0.44
1:J:246:MET:HG2	1:J:274:PHE:CE2	2.52	0.44
1:J:652:LEU:HD11	1:J:698:VAL:HB	2.00	0.44
1:K:257:THR:HG22	1:K:258:VAL:N	2.33	0.44
1:K:377:LEU:HD22	1:K:377:LEU:HA	1.69	0.44
1:K:637:GLU:HA	1:K:679:LEU:CD2	2.48	0.44
1:K:682:LEU:HA	1:K:682:LEU:HD23	1.70	0.44
1:M:149:ALA:O	1:M:150:PHE:HB3	2.18	0.44
1:M:559:TYR:HA	1:M:560:PRO:HD2	1.80	0.44
1:M:670:LEU:HD23	1:M:670:LEU:HA	1.66	0.44
1:N:100:TYR:OH	1:N:601:PHE:HB3	2.17	0.44
1:O:103:VAL:O	1:O:199:ASP:OD2	2.36	0.44
1:O:427:THR:HA	1:O:436:MET:HE2	1.91	0.44
1:P:46:ARG:CG	1:P:46:ARG:HH11	2.29	0.44
1:P:685:LEU:HA	1:P:686:PRO:HD3	1.66	0.44
1:P:652:LEU:HD11	1:P:698:VAL:HB	2.00	0.44
1:A:13:ARG:O	1:A:14:ARG:HB2	2.18	0.44
1:B:103:VAL:O	1:B:199:ASP:OD2	2.36	0.44
1:B:661:LYS:HA	1:B:662:PRO:HD3	1.72	0.44
1:C:147:ASN:HA	1:C:148:SER:HA	1.63	0.44
1:C:46:ARG:CG	1:C:46:ARG:HH11	2.29	0.44
1:C:655:MET:O	1:C:655:MET:HG3	2.14	0.44
1:C:801:ILE:C	1:C:801:ILE:HD12	2.37	0.44
1:D:66:PRO:HA	1:D:187:MET:HE3	2.00	0.44
1:D:645:ARG:NH2	1:D:650:GLU:OE2	2.50	0.44
1:D:778:THR:HB	1:D:887:GLN:HB3	2.00	0.44
1:E:217:LYS:NZ	1:E:326:GLU:OE2	2.50	0.44
1:E:579:ASP:N	1:E:583:ASN:O	2.47	0.44
1:G:673:ALA:O	1:G:674:PRO:C	2.52	0.44
1:H:224:ASP:OD2	1:H:225:PHE:N	2.51	0.44
1:H:322:LEU:CD2	1:H:324:GLU:N	2.81	0.44
1:H:37:ARG:NH2	1:H:216:HIS:O	2.50	0.44
1:H:436:MET:HE1	1:H:467:ASN:ND2	2.28	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:361:PRO:HB2	1:H:576:ILE:HD12	2.00	0.44
1:H:655:MET:HE3	1:H:655:MET:HB2	1.74	0.44
1:H:722:LEU:HA	1:H:722:LEU:HD23	1.76	0.44
1:H:788:PRO:O	1:H:933:SER:HB2	2.17	0.44
1:I:237:ARG:HE	1:I:237:ARG:HB2	1.48	0.44
1:I:322:LEU:HD23	1:I:324:GLU:N	2.33	0.44
1:I:378:LEU:HA	1:I:378:LEU:HD23	1.63	0.44
1:I:849:LEU:N	1:I:849:LEU:HD23	2.33	0.44
1:J:257:THR:HG22	1:J:258:VAL:N	2.33	0.44
1:J:282:ARG:HD2	1:K:418:HIS:O	2.17	0.44
1:J:322:LEU:HD23	1:J:324:GLU:N	2.33	0.44
1:J:362:LEU:HA	1:J:362:LEU:HD23	1.70	0.44
1:J:655:MET:HE2	1:J:656:VAL:H	1.79	0.44
1:J:694:LEU:HD12	1:J:694:LEU:HA	1.73	0.44
1:J:748:CME:HZ2	1:J:755:ARG:HH11	1.82	0.44
1:J:778:THR:HB	1:J:887:GLN:HB3	2.00	0.44
1:J:801:ILE:C	1:J:801:ILE:HD12	2.37	0.44
1:K:246:MET:HG2	1:K:274:PHE:CE2	2.52	0.44
1:K:487:GLU:HG2	1:K:491:ALA:HB2	2.00	0.44
1:K:855:THR:OG1	1:K:867:THR:HB	2.17	0.44
1:L:322:LEU:CD2	1:L:324:GLU:N	2.81	0.44
1:M:361:PRO:HB2	1:M:576:ILE:HD12	2.00	0.44
1:M:778:THR:HB	1:M:887:GLN:HB3	2.00	0.44
1:N:149:ALA:O	1:N:150:PHE:HB3	2.18	0.44
1:N:778:THR:HB	1:N:887:GLN:HB3	2.00	0.44
1:O:111:PRO:HA	1:O:112:PRO:HA	1.74	0.44
1:O:322:LEU:CD2	1:O:324:GLU:N	2.81	0.44
1:O:673:ALA:O	1:O:674:PRO:C	2.52	0.44
1:O:657:ALA:O	1:O:694:LEU:HD12	2.18	0.44
1:O:901:GLY:HA3	1:O:902:PRO:HA	1.68	0.44
1:P:13:ARG:O	1:P:14:ARG:HB2	2.18	0.44
1:P:37:ARG:NH2	1:P:216:HIS:O	2.50	0.44
1:P:687:GLN:HA	1:P:688:PRO:HD3	1.75	0.44
1:P:657:ALA:O	1:P:694:LEU:HD12	2.18	0.44
1:P:855:THR:OG1	1:P:867:THR:HB	2.17	0.44
1:A:256:VAL:N	1:A:272:ALA:O	2.47	0.44
1:A:422:PRO:HB3	1:D:283:GLY:O	2.18	0.44
1:A:655:MET:HB2	1:A:655:MET:HE3	1.80	0.44
1:B:322:LEU:HD23	1:B:324:GLU:N	2.33	0.44
1:B:855:THR:OG1	1:B:867:THR:HB	2.17	0.44
1:C:657:ALA:O	1:C:694:LEU:HD12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:740:LEU:HD13	1:C:749:ILE:HD12	1.98	0.44
1:D:173:LEU:HD23	1:D:173:LEU:HA	1.53	0.44
1:D:46:ARG:CG	1:D:46:ARG:HH11	2.29	0.44
1:D:100:TYR:OH	1:D:601:PHE:HB3	2.17	0.44
1:D:652:LEU:HD11	1:D:698:VAL:HB	2.00	0.44
1:E:30:HIS:ND1	1:E:33:PHE:CE1	2.86	0.44
1:E:856:TYR:HD2	1:E:864:MET:HE2	1.83	0.44
1:E:914:CME:HE2	1:E:914:CME:HB3	1.90	0.44
1:F:173:LEU:HD23	1:F:173:LEU:HA	1.52	0.44
1:F:361:PRO:HB2	1:F:576:ILE:HD12	2.00	0.44
1:F:740:LEU:HD13	1:F:749:ILE:HD12	1.98	0.44
1:F:778:THR:HB	1:F:887:GLN:HB3	2.00	0.44
1:G:149:ALA:O	1:G:150:PHE:HB3	2.18	0.44
1:G:30:HIS:ND1	1:G:33:PHE:CE1	2.86	0.44
1:G:362:LEU:HD23	1:G:362:LEU:HA	1.70	0.44
1:G:637:GLU:HA	1:G:679:LEU:CD2	2.48	0.44
1:G:748:CME:HZ2	1:G:755:ARG:HH11	1.82	0.44
1:H:487:GLU:HG2	1:H:491:ALA:HB2	2.00	0.44
1:H:100:TYR:OH	1:H:601:PHE:HB3	2.17	0.44
1:H:657:ALA:O	1:H:694:LEU:HD12	2.18	0.44
1:I:471:LEU:HA	1:I:471:LEU:HD23	1.84	0.44
1:I:592:PHE:CD1	1:I:592:PHE:N	2.84	0.44
1:I:657:ALA:O	1:I:694:LEU:HD12	2.18	0.44
1:I:737:ILE:HB	1:I:738:PRO:HD2	2.00	0.44
1:I:788:PRO:O	1:I:933:SER:HB2	2.17	0.44
1:J:487:GLU:HG2	1:J:491:ALA:HB2	2.00	0.44
1:J:53:SER:O	1:J:54:LEU:HD23	2.18	0.44
1:J:66:PRO:HA	1:J:187:MET:HE3	2.00	0.44
1:J:69:VAL:HA	1:J:70:PRO:HD3	1.87	0.44
1:J:74:LEU:HD23	1:J:74:LEU:HA	1.85	0.44
1:J:92:MET:HE3	1:J:362:LEU:O	2.18	0.44
1:K:147:ASN:HA	1:K:148:SER:HA	1.63	0.44
1:K:37:ARG:NH2	1:K:216:HIS:O	2.50	0.44
1:K:670:LEU:HD23	1:K:670:LEU:HA	1.66	0.44
1:L:260:LEU:HD12	1:L:260:LEU:HA	1.70	0.44
1:L:652:LEU:HD11	1:L:698:VAL:HB	2.00	0.44
1:M:224:ASP:OD2	1:M:225:PHE:N	2.50	0.44
1:M:322:LEU:HD23	1:M:324:GLU:N	2.33	0.44
1:M:637:GLU:HA	1:M:679:LEU:CD2	2.48	0.44
1:M:855:THR:OG1	1:M:867:THR:HB	2.17	0.44
1:M:788:PRO:O	1:M:933:SER:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:129:VAL:HG23	1:N:182:ASN:HD22	1.81	0.44
1:N:37:ARG:NH2	1:N:216:HIS:O	2.50	0.44
1:N:361:PRO:HB2	1:N:576:ILE:HD12	2.00	0.44
1:N:63:PHE:CD1	1:N:63:PHE:N	2.84	0.44
1:N:670:LEU:HD23	1:N:670:LEU:HA	1.66	0.44
1:N:740:LEU:HD13	1:N:749:ILE:HD12	1.98	0.44
1:N:849:LEU:N	1:N:849:LEU:HD23	2.33	0.44
1:N:876:THR:OG1	1:N:877:PRO:HD2	2.18	0.44
1:O:251:ARG:CB	1:O:253:TYR:CE2	2.97	0.44
1:O:254:LEU:HA	1:O:254:LEU:HD23	1.51	0.44
1:O:637:GLU:HA	1:O:679:LEU:CD2	2.48	0.44
1:P:227:VAL:HG13	1:P:240:LEU:CD1	2.39	0.44
1:P:322:LEU:HD23	1:P:324:GLU:N	2.33	0.44
1:A:53:SER:O	1:A:54:LEU:HD23	2.18	0.43
1:A:637:GLU:HA	1:A:679:LEU:CD2	2.48	0.43
1:A:682:LEU:HA	1:A:682:LEU:HD23	1.70	0.43
1:B:30:HIS:ND1	1:B:33:PHE:CE1	2.86	0.43
1:C:118:ASN:HA	1:C:119:PRO:HD2	1.61	0.43
1:C:149:ALA:O	1:C:150:PHE:HB3	2.18	0.43
1:C:778:THR:HB	1:C:887:GLN:HB3	2.00	0.43
1:C:914:CME:HE2	1:C:914:CME:HB3	1.90	0.43
1:D:657:ALA:O	1:D:694:LEU:HD12	2.18	0.43
1:E:147:ASN:HA	1:E:148:SER:HA	1.64	0.43
1:E:654:TRP:O	1:E:655:MET:HB3	2.18	0.43
1:E:778:THR:HB	1:E:887:GLN:HB3	2.00	0.43
1:F:322:LEU:HD23	1:F:324:GLU:N	2.33	0.43
1:F:708:TRP:N	1:F:708:TRP:CD1	2.83	0.43
1:F:876:THR:OG1	1:F:877:PRO:HD2	2.18	0.43
1:G:302:SER:HB2	1:G:304:GLU:H	1.83	0.43
1:G:876:THR:OG1	1:G:877:PRO:HD2	2.18	0.43
1:I:246:MET:HG2	1:I:274:PHE:CE2	2.52	0.43
1:I:256:VAL:O	1:I:271:THR:HA	2.17	0.43
1:I:257:THR:HG22	1:I:258:VAL:N	2.33	0.43
1:I:947:GLY:HA3	1:I:948:PRO:HD2	1.79	0.43
1:J:30:HIS:CB	1:J:31:PRO:CD	2.95	0.43
1:J:651:LEU:HD13	1:J:651:LEU:HA	1.49	0.43
1:J:657:ALA:O	1:J:694:LEU:HD12	2.18	0.43
1:J:876:THR:OG1	1:J:877:PRO:HD2	2.18	0.43
1:L:1000:SER:HA	1:L:1001:PRO:HD3	1.76	0.43
1:L:37:ARG:NH2	1:L:216:HIS:O	2.50	0.43
1:M:227:VAL:HG13	1:M:240:LEU:CD1	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1000:SER:HA	1:N:1001:PRO:HD3	1.76	0.43
1:N:214:LEU:HD23	1:N:214:LEU:HA	1.73	0.43
1:N:246:MET:HG2	1:N:274:PHE:CE2	2.52	0.43
1:N:302:SER:HB2	1:N:304:GLU:H	1.83	0.43
1:N:304:GLU:OE1	1:N:644:PHE:N	2.43	0.43
1:N:322:LEU:HD23	1:N:324:GLU:N	2.33	0.43
1:N:436:MET:HE1	1:N:467:ASN:ND2	2.30	0.43
1:N:53:SER:O	1:N:54:LEU:HD23	2.18	0.43
1:O:118:ASN:HA	1:O:119:PRO:HD2	1.61	0.43
1:O:487:GLU:HG2	1:O:491:ALA:HB2	1.99	0.43
1:P:302:SER:HB2	1:P:304:GLU:H	1.83	0.43
1:P:487:GLU:HG2	1:P:491:ALA:HB2	2.00	0.43
1:P:361:PRO:HB2	1:P:576:ILE:HD12	2.00	0.43
1:P:576:ILE:CG2	1:P:577:LYS:N	2.77	0.43
1:P:778:THR:HB	1:P:887:GLN:HB3	2.00	0.43
1:A:778:THR:HB	1:A:887:GLN:HB3	2.00	0.43
1:C:360:HIS:HA	1:C:361:PRO:HD3	1.81	0.43
1:C:395:HIS:HA	1:C:396:PRO:HD3	1.51	0.43
1:D:654:TRP:CE3	1:D:655:MET:HA	2.52	0.43
1:D:655:MET:HE2	1:D:656:VAL:H	1.81	0.43
1:D:876:THR:OG1	1:D:877:PRO:HD2	2.18	0.43
1:E:257:THR:HG22	1:E:258:VAL:N	2.33	0.43
1:E:429:ASP:OD1	1:E:431:ARG:N	2.46	0.43
1:F:256:VAL:O	1:F:271:THR:HA	2.17	0.43
1:F:722:LEU:HD23	1:F:722:LEU:HA	1.76	0.43
1:H:13:ARG:O	1:H:14:ARG:HB2	2.18	0.43
1:H:53:SER:O	1:H:54:LEU:HD23	2.18	0.43
1:I:479:ASP:N	1:I:480:PRO:HD3	2.33	0.43
1:I:570:TRP:HD1	1:I:571:VAL:HG22	1.82	0.43
1:I:702:GLN:HA	1:I:703:PRO:HD2	1.78	0.43
1:I:779:PRO:O	1:I:781:ARG:HD3	2.19	0.43
1:J:224:ASP:OD2	1:J:225:PHE:N	2.50	0.43
1:J:679:LEU:HA	1:J:679:LEU:HD23	1.48	0.43
1:K:30:HIS:ND1	1:K:33:PHE:CE1	2.86	0.43
1:K:567:VAL:HG12	1:K:568:TRP:N	2.33	0.43
1:K:657:ALA:O	1:K:694:LEU:HD12	2.18	0.43
1:K:777:LEU:HD21	1:K:889:ALA:CA	2.40	0.43
1:L:13:ARG:O	1:L:14:ARG:HB2	2.18	0.43
1:L:708:TRP:CD1	1:L:708:TRP:N	2.83	0.43
1:L:876:THR:OG1	1:L:877:PRO:HD2	2.18	0.43
1:M:173:LEU:HD23	1:M:173:LEU:HA	1.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:429:ASP:OD1	1:M:431:ARG:N	2.46	0.43
1:M:682:LEU:HA	1:M:682:LEU:HD23	1.70	0.43
1:N:103:VAL:O	1:N:199:ASP:OD2	2.36	0.43
1:N:395:HIS:HA	1:N:396:PRO:HD3	1.51	0.43
1:N:487:GLU:HG2	1:N:491:ALA:HB2	1.99	0.43
1:O:387:VAL:CG2	1:O:388:ARG:N	2.81	0.43
1:O:687:GLN:HA	1:O:688:PRO:HD3	1.75	0.43
1:A:312:VAL:HG12	1:A:313:VAL:N	2.33	0.43
1:A:645:ARG:NH2	1:A:650:GLU:OE2	2.50	0.43
1:A:779:PRO:O	1:A:781:ARG:HD3	2.18	0.43
1:B:13:ARG:O	1:B:14:ARG:HB2	2.18	0.43
1:B:302:SER:HB2	1:B:304:GLU:H	1.84	0.43
1:B:849:LEU:HD23	1:B:849:LEU:N	2.33	0.43
1:C:429:ASP:OD1	1:C:431:ARG:N	2.46	0.43
1:D:149:ALA:O	1:D:150:PHE:HB3	2.18	0.43
1:D:30:HIS:ND1	1:D:33:PHE:CE1	2.86	0.43
1:F:322:LEU:CD2	1:F:324:GLU:N	2.81	0.43
1:F:487:GLU:HG2	1:F:491:ALA:HB2	2.00	0.43
1:G:487:GLU:HG2	1:G:491:ALA:HB2	2.00	0.43
1:G:855:THR:OG1	1:G:867:THR:HB	2.17	0.43
1:G:778:THR:HB	1:G:887:GLN:HB3	2.00	0.43
1:H:778:THR:HB	1:H:887:GLN:HB3	2.00	0.43
1:H:970:THR:HG23	1:H:975:LEU:HB2	1.99	0.43
1:I:66:PRO:HB3	1:I:187:MET:HE1	1.99	0.43
1:I:361:PRO:HB2	1:I:576:ILE:HD12	2.00	0.43
1:I:362:LEU:HA	1:I:362:LEU:HD23	1.70	0.43
1:I:100:TYR:OH	1:I:601:PHE:HB3	2.17	0.43
1:J:149:ALA:O	1:J:150:PHE:HB3	2.18	0.43
1:J:312:VAL:HG12	1:J:313:VAL:N	2.34	0.43
1:J:387:VAL:CG2	1:J:388:ARG:N	2.81	0.43
1:J:745:MET:CA	1:J:745:MET:CE	2.97	0.43
1:K:224:ASP:OD2	1:K:225:PHE:N	2.50	0.43
1:K:312:VAL:HG12	1:K:313:VAL:N	2.33	0.43
1:K:476:LYS:HD2	1:K:476:LYS:HA	1.81	0.43
1:L:254:LEU:HD23	1:L:254:LEU:HA	1.51	0.43
1:L:30:HIS:ND1	1:L:33:PHE:CE1	2.86	0.43
1:L:387:VAL:CG2	1:L:388:ARG:N	2.81	0.43
1:L:100:TYR:OH	1:L:601:PHE:HB3	2.17	0.43
1:L:654:TRP:O	1:L:655:MET:HB3	2.18	0.43
1:M:30:HIS:ND1	1:M:33:PHE:CE1	2.86	0.43
1:N:322:LEU:CD2	1:N:324:GLU:N	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:802:ASP:HA	1:N:803:PRO:HD3	1.88	0.43
1:O:37:ARG:NH2	1:O:216:HIS:O	2.50	0.43
1:O:256:VAL:N	1:O:272:ALA:O	2.47	0.43
1:O:30:HIS:ND1	1:O:33:PHE:CE1	2.86	0.43
1:P:149:ALA:O	1:P:150:PHE:HB3	2.18	0.43
1:P:471:LEU:O	1:P:475:ILE:HG13	2.19	0.43
1:P:567:VAL:HG12	1:P:568:TRP:N	2.33	0.43
1:P:970:THR:HG23	1:P:975:LEU:HB2	1.99	0.43
1:A:30:HIS:CB	1:A:31:PRO:CD	2.95	0.43
1:A:849:LEU:N	1:A:849:LEU:HD23	2.33	0.43
1:B:214:LEU:HD23	1:B:214:LEU:HA	1.73	0.43
1:B:487:GLU:HG2	1:B:491:ALA:HB2	1.99	0.43
1:B:66:PRO:HA	1:B:187:MET:HE3	2.01	0.43
1:C:302:SER:HB2	1:C:304:GLU:H	1.83	0.43
1:C:312:VAL:HG12	1:C:313:VAL:N	2.33	0.43
1:C:567:VAL:HG12	1:C:568:TRP:N	2.33	0.43
1:C:645:ARG:NH2	1:C:650:GLU:OE2	2.50	0.43
1:C:650:GLU:HB3	1:C:670:LEU:HD12	2.01	0.43
1:D:256:VAL:O	1:D:271:THR:HA	2.17	0.43
1:D:567:VAL:HG12	1:D:568:TRP:N	2.33	0.43
1:D:779:PRO:O	1:D:781:ARG:HD3	2.18	0.43
1:E:479:ASP:N	1:E:480:PRO:HD3	2.33	0.43
1:F:13:ARG:O	1:F:14:ARG:HB2	2.18	0.43
1:F:103:VAL:O	1:F:199:ASP:OD2	2.36	0.43
1:F:645:ARG:NH2	1:F:650:GLU:OE2	2.50	0.43
1:F:652:LEU:HD11	1:F:698:VAL:HB	2.00	0.43
1:F:687:GLN:HA	1:F:688:PRO:HD3	1.75	0.43
1:F:748:CME:HZ2	1:F:755:ARG:HH11	1.82	0.43
1:G:118:ASN:HA	1:G:119:PRO:HD2	1.61	0.43
1:G:18:ASN:HD22	1:G:21:VAL:HG23	1.80	0.43
1:G:322:LEU:CD2	1:G:324:GLU:N	2.81	0.43
1:G:377:LEU:HD22	1:G:377:LEU:HA	1.69	0.43
1:H:214:LEU:HA	1:H:214:LEU:HD23	1.73	0.43
1:J:471:LEU:O	1:J:475:ILE:HG13	2.19	0.43
1:J:637:GLU:HA	1:J:679:LEU:CD2	2.48	0.43
1:K:13:ARG:O	1:K:14:ARG:HB2	2.18	0.43
1:K:149:ALA:O	1:K:150:PHE:HB3	2.18	0.43
1:K:302:SER:HB2	1:K:304:GLU:H	1.84	0.43
1:K:308:LEU:HD23	1:K:308:LEU:HA	1.73	0.43
1:K:685:LEU:HA	1:K:686:PRO:HD3	1.66	0.43
1:K:878:HIS:HA	1:K:879:PRO:HD3	1.74	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:471:LEU:O	1:L:475:ILE:HG13	2.19	0.43
1:L:777:LEU:HD21	1:L:889:ALA:CA	2.40	0.43
1:L:778:THR:HB	1:L:887:GLN:HB3	2.00	0.43
1:N:579:ASP:N	1:N:583:ASN:O	2.47	0.43
1:N:652:LEU:HD11	1:N:698:VAL:HB	2.00	0.43
1:N:708:TRP:CD1	1:N:708:TRP:N	2.83	0.43
1:P:66:PRO:HB3	1:P:187:MET:HE1	1.99	0.43
1:P:224:ASP:OD2	1:P:225:PHE:N	2.51	0.43
1:P:30:HIS:ND1	1:P:33:PHE:CE1	2.86	0.43
1:P:429:ASP:HA	1:P:430:PRO:HD3	1.55	0.43
1:P:637:GLU:HA	1:P:679:LEU:CD2	2.48	0.43
1:P:737:ILE:HB	1:P:738:PRO:HD2	2.01	0.43
1:P:870:VAL:HG12	1:P:871:GLU:N	2.34	0.43
1:A:256:VAL:CG1	1:A:257:THR:N	2.82	0.43
1:A:257:THR:HG22	1:A:258:VAL:N	2.33	0.43
1:A:30:HIS:ND1	1:A:33:PHE:CE1	2.86	0.43
1:A:322:LEU:CD2	1:A:324:GLU:N	2.81	0.43
1:A:387:VAL:CG2	1:A:388:ARG:N	2.81	0.43
1:A:66:PRO:HA	1:A:187:MET:HE3	2.01	0.43
1:A:670:LEU:HA	1:A:670:LEU:HD23	1.66	0.43
1:A:800:ARG:HE	1:A:800:ARG:HB2	1.58	0.43
1:B:149:ALA:O	1:B:150:PHE:HB3	2.18	0.43
1:B:254:LEU:HD23	1:B:254:LEU:HA	1.51	0.43
1:B:312:VAL:HG12	1:B:313:VAL:N	2.33	0.43
1:B:43:ARG:CG	1:B:43:ARG:HH11	2.13	0.43
1:B:637:GLU:HA	1:B:679:LEU:CD2	2.48	0.43
1:B:737:ILE:HB	1:B:738:PRO:HD2	2.01	0.43
1:C:260:LEU:HD12	1:C:260:LEU:HA	1.70	0.43
1:C:377:LEU:HA	1:C:377:LEU:HD22	1.69	0.43
1:C:361:PRO:HB2	1:C:576:ILE:HD12	2.00	0.43
1:C:100:TYR:OH	1:C:601:PHE:HB3	2.17	0.43
1:C:856:TYR:CD2	1:C:864:MET:HE2	2.54	0.43
1:D:217:LYS:NZ	1:D:326:GLU:OE2	2.50	0.43
1:D:471:LEU:O	1:D:475:ILE:HG13	2.19	0.43
1:D:670:LEU:HA	1:D:670:LEU:HD23	1.66	0.43
1:D:637:GLU:HA	1:D:679:LEU:CD2	2.48	0.43
1:D:914:CME:HE2	1:D:914:CME:HB3	1.90	0.43
1:E:322:LEU:HD23	1:E:324:GLU:N	2.33	0.43
1:F:100:TYR:OH	1:F:601:PHE:HB3	2.17	0.43
1:F:658:LEU:N	1:F:661:LYS:O	2.39	0.43
1:F:670:LEU:HA	1:F:670:LEU:HD23	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:118:ASN:HA	1:H:119:PRO:HD2	1.61	0.43
1:H:260:LEU:HD12	1:H:260:LEU:HA	1.70	0.43
1:H:429:ASP:HA	1:H:430:PRO:HD3	1.55	0.43
1:H:567:VAL:HG12	1:H:568:TRP:N	2.33	0.43
1:H:870:VAL:HG12	1:H:871:GLU:N	2.34	0.43
1:I:13:ARG:O	1:I:14:ARG:HB2	2.18	0.43
1:I:650:GLU:HB3	1:I:670:LEU:HD12	2.01	0.43
1:I:778:THR:HB	1:I:887:GLN:HB3	2.00	0.43
1:J:302:SER:HB2	1:J:304:GLU:H	1.83	0.43
1:K:53:SER:O	1:K:54:LEU:HD23	2.18	0.43
1:K:740:LEU:HD13	1:K:749:ILE:HD12	1.98	0.43
1:K:778:THR:HB	1:K:887:GLN:HB3	2.00	0.43
1:K:779:PRO:O	1:K:781:ARG:HD3	2.19	0.43
1:L:257:THR:HG22	1:L:258:VAL:N	2.33	0.43
1:L:312:VAL:HG12	1:L:313:VAL:N	2.33	0.43
1:L:322:LEU:HD23	1:L:324:GLU:N	2.33	0.43
1:L:567:VAL:HG12	1:L:568:TRP:N	2.33	0.43
1:L:59:ARG:NH1	1:L:81:ALA:HB3	2.34	0.43
1:L:657:ALA:O	1:L:694:LEU:HD12	2.18	0.43
1:L:748:CME:HZ2	1:L:755:ARG:HH11	1.82	0.43
1:L:779:PRO:O	1:L:781:ARG:HD3	2.19	0.43
1:M:167:LEU:CB	1:M:168:PRO:HD2	2.49	0.43
1:M:322:LEU:CD2	1:M:324:GLU:N	2.81	0.43
1:M:654:TRP:O	1:M:655:MET:HB3	2.18	0.43
1:N:687:GLN:HA	1:N:688:PRO:HD3	1.75	0.43
1:O:18:ASN:HD22	1:O:21:VAL:HG23	1.80	0.43
1:A:189:LEU:CD2	1:A:189:LEU:N	2.75	0.43
1:A:567:VAL:HG12	1:A:568:TRP:N	2.33	0.43
1:B:253:TYR:O	1:B:318:ALA:N	2.52	0.43
1:B:65:ALA:CB	1:B:66:PRO:HD2	2.33	0.43
1:B:748:CME:HZ2	1:B:755:ARG:HH11	1.82	0.43
1:B:878:HIS:HA	1:B:879:PRO:HD3	1.74	0.43
1:C:745:MET:CE	1:C:745:MET:CA	2.97	0.43
1:C:779:PRO:O	1:C:781:ARG:HD3	2.19	0.43
1:D:302:SER:HB2	1:D:304:GLU:H	1.84	0.43
1:D:487:GLU:HG2	1:D:491:ALA:HB2	1.99	0.43
1:D:694:LEU:HD12	1:D:694:LEU:HA	1.73	0.43
1:E:254:LEU:HD23	1:E:254:LEU:HA	1.51	0.43
1:E:256:VAL:CG1	1:E:257:THR:N	2.82	0.43
1:E:261:TRP:HA	1:E:267:VAL:HG23	2.01	0.43
1:E:657:ALA:O	1:E:694:LEU:HD12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:870:VAL:HG12	1:E:871:GLU:N	2.34	0.43
1:F:650:GLU:HB3	1:F:670:LEU:HD12	2.01	0.43
1:G:66:PRO:HB3	1:G:187:MET:HE1	1.99	0.43
1:G:479:ASP:N	1:G:480:PRO:HD3	2.33	0.43
1:G:657:ALA:O	1:G:694:LEU:HD12	2.18	0.43
1:G:779:PRO:O	1:G:781:ARG:HD3	2.18	0.43
1:H:287:ASP:N	1:H:287:ASP:OD1	2.30	0.43
1:H:30:HIS:ND1	1:H:33:PHE:CE1	2.86	0.43
1:H:322:LEU:HD23	1:H:324:GLU:N	2.33	0.43
1:H:679:LEU:HA	1:H:679:LEU:HD23	1.48	0.43
1:I:1018:LEU:HA	1:I:1018:LEU:HD23	1.53	0.43
1:I:149:ALA:O	1:I:150:PHE:HB3	2.18	0.43
1:I:92:MET:HE3	1:I:362:LEU:O	2.19	0.43
1:J:322:LEU:CD2	1:J:324:GLU:N	2.81	0.43
1:J:336:ARG:HH11	1:J:336:ARG:CG	2.26	0.43
1:J:567:VAL:HG12	1:J:568:TRP:N	2.33	0.43
1:J:59:ARG:NH1	1:J:81:ALA:HB3	2.34	0.43
1:K:256:VAL:N	1:K:272:ALA:O	2.47	0.43
1:K:217:LYS:NZ	1:K:326:GLU:OE2	2.51	0.43
1:K:360:HIS:ND1	1:K:362:LEU:HB2	2.33	0.43
1:K:65:ALA:HB1	1:K:66:PRO:CD	2.41	0.43
1:K:849:LEU:HD23	1:K:849:LEU:N	2.33	0.43
1:L:253:TYR:O	1:L:318:ALA:N	2.52	0.43
1:L:612:THR:HA	1:L:613:PRO:HD3	1.67	0.43
1:L:800:ARG:HB2	1:L:800:ARG:HE	1.58	0.43
1:M:253:TYR:O	1:M:318:ALA:N	2.52	0.43
1:M:650:GLU:HB3	1:M:670:LEU:HD12	2.01	0.43
1:M:645:ARG:NH2	1:M:650:GLU:OE2	2.50	0.43
1:M:836:ILE:HG22	1:M:837:THR:N	2.34	0.43
1:M:878:HIS:HA	1:M:879:PRO:HD3	1.74	0.43
1:N:257:THR:HG22	1:N:258:VAL:N	2.33	0.43
1:N:256:VAL:CG1	1:N:257:THR:N	2.82	0.43
1:N:429:ASP:OD1	1:N:431:ARG:N	2.46	0.43
1:N:471:LEU:O	1:N:475:ILE:HG13	2.19	0.43
1:N:479:ASP:N	1:N:480:PRO:HD3	2.33	0.43
1:N:658:LEU:N	1:N:661:LYS:O	2.39	0.43
1:N:650:GLU:HB3	1:N:670:LEU:HD12	2.01	0.43
1:O:778:THR:HB	1:O:887:GLN:HB3	2.00	0.43
1:P:836:ILE:HG22	1:P:837:THR:N	2.34	0.43
1:A:471:LEU:O	1:A:475:ILE:HG13	2.19	0.43
1:A:57:GLU:HG2	1:A:83:THR:HG21	1.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:780:LEU:HA	1:A:886:CYS:HB3	2.01	0.43
1:B:261:TRP:HA	1:B:267:VAL:HG23	2.01	0.43
1:B:322:LEU:CD2	1:B:324:GLU:N	2.81	0.43
1:B:479:ASP:N	1:B:480:PRO:HD3	2.33	0.43
1:B:361:PRO:HB2	1:B:576:ILE:HD12	2.00	0.43
1:D:234:ASP:OD2	1:D:236:SER:HB3	2.19	0.43
1:D:849:LEU:HD23	1:D:849:LEU:N	2.33	0.43
1:E:322:LEU:CD2	1:E:324:GLU:N	2.81	0.43
1:E:476:LYS:HD2	1:E:476:LYS:HA	1.81	0.43
1:E:65:ALA:HB1	1:E:66:PRO:CD	2.41	0.43
1:F:142:ILE:HG23	1:F:170:GLU:HG2	2.01	0.43
1:F:234:ASP:OD2	1:F:236:SER:HB3	2.19	0.43
1:F:347:LYS:CB	1:F:348:PRO:HD2	2.43	0.43
1:F:471:LEU:O	1:F:475:ILE:HG13	2.19	0.43
1:F:579:ASP:N	1:F:583:ASN:O	2.47	0.43
1:F:989:PHE:CE1	1:F:1014:TYR:HB3	2.54	0.43
1:G:253:TYR:O	1:G:318:ALA:N	2.52	0.43
1:G:567:VAL:HG12	1:G:568:TRP:N	2.33	0.43
1:H:111:PRO:HA	1:H:112:PRO:HA	1.74	0.43
1:H:149:ALA:O	1:H:150:PHE:HB3	2.18	0.43
1:H:336:ARG:CG	1:H:336:ARG:HH11	2.26	0.43
1:H:479:ASP:N	1:H:480:PRO:HD3	2.33	0.43
1:H:637:GLU:HA	1:H:679:LEU:CD2	2.48	0.43
1:H:737:ILE:HB	1:H:738:PRO:HD2	2.01	0.43
1:I:655:MET:HE2	1:I:655:MET:C	2.39	0.43
1:I:730:LEU:HA	1:I:731:PRO:HD3	1.78	0.43
1:J:103:VAL:O	1:J:199:ASP:OD2	2.36	0.43
1:K:167:LEU:CB	1:K:168:PRO:HD2	2.49	0.43
1:K:387:VAL:CG2	1:K:388:ARG:N	2.81	0.43
1:K:579:ASP:N	1:K:583:ASN:O	2.47	0.43
1:K:66:PRO:HA	1:K:187:MET:HE3	2.01	0.43
1:K:989:PHE:CE1	1:K:1014:TYR:HB3	2.54	0.43
1:L:127:PHE:O	1:L:182:ASN:N	2.34	0.43
1:L:272:ALA:HA	1:L:273:PRO:HD3	1.74	0.43
1:L:43:ARG:NH1	1:L:44:THR:HG23	2.34	0.43
1:M:471:LEU:O	1:M:475:ILE:HG13	2.19	0.43
1:M:479:ASP:N	1:M:480:PRO:HD3	2.33	0.43
1:M:870:VAL:HG12	1:M:871:GLU:N	2.34	0.43
1:N:836:ILE:HG22	1:N:837:THR:N	2.34	0.43
1:O:253:TYR:O	1:O:318:ALA:N	2.52	0.43
1:O:361:PRO:HB2	1:O:576:ILE:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:567:VAL:HG12	1:O:568:TRP:N	2.33	0.43
1:O:650:GLU:HB3	1:O:670:LEU:HD12	2.01	0.43
1:O:836:ILE:HG22	1:O:837:THR:N	2.34	0.43
1:P:779:PRO:O	1:P:781:ARG:HD3	2.18	0.43
1:P:849:LEU:HD23	1:P:849:LEU:N	2.33	0.43
1:P:876:THR:OG1	1:P:877:PRO:HD2	2.18	0.43
1:A:989:PHE:CE1	1:A:1014:TYR:HB3	2.54	0.43
1:A:429:ASP:OD1	1:A:431:ARG:N	2.46	0.43
1:B:685:LEU:HA	1:B:686:PRO:HD3	1.66	0.43
1:C:272:ALA:HB1	1:C:273:PRO:CD	2.49	0.43
1:C:43:ARG:NH1	1:C:44:THR:HG23	2.34	0.43
1:C:471:LEU:O	1:C:475:ILE:HG13	2.19	0.43
1:C:479:ASP:N	1:C:480:PRO:HD3	2.33	0.43
1:C:989:PHE:CE1	1:C:1014:TYR:HB3	2.54	0.43
1:D:989:PHE:CE1	1:D:1014:TYR:HB3	2.54	0.43
1:D:103:VAL:O	1:D:199:ASP:OD2	2.36	0.43
1:D:312:VAL:HG12	1:D:313:VAL:N	2.34	0.43
1:D:387:VAL:CG2	1:D:388:ARG:N	2.81	0.43
1:D:471:LEU:HA	1:D:471:LEU:HD23	1.84	0.43
1:D:655:MET:HE3	1:D:655:MET:HB2	1.80	0.43
1:E:167:LEU:CB	1:E:168:PRO:HD2	2.49	0.43
1:E:173:LEU:HD23	1:E:173:LEU:HA	1.53	0.43
1:E:57:GLU:HG2	1:E:83:THR:HG21	1.97	0.43
1:E:650:GLU:HB3	1:E:670:LEU:HD12	2.01	0.43
1:E:682:LEU:HD23	1:E:682:LEU:HA	1.70	0.43
1:G:13:ARG:O	1:G:14:ARG:HB2	2.18	0.43
1:G:234:ASP:OD2	1:G:236:SER:HB3	2.19	0.43
1:G:322:LEU:HD23	1:G:324:GLU:N	2.33	0.43
1:G:361:PRO:HB2	1:G:576:ILE:HD12	2.00	0.43
1:G:650:GLU:HB3	1:G:670:LEU:HD12	2.01	0.43
1:H:256:VAL:CG1	1:H:257:THR:N	2.82	0.43
1:H:836:ILE:HG22	1:H:837:THR:N	2.34	0.43
1:H:856:TYR:HD2	1:H:864:MET:HE2	1.83	0.43
1:H:989:PHE:CE1	1:H:1014:TYR:HB3	2.54	0.43
1:I:989:PHE:CE1	1:I:1014:TYR:HB3	2.54	0.43
1:I:30:HIS:ND1	1:I:33:PHE:CE1	2.86	0.43
1:I:436:MET:HE1	1:I:467:ASN:ND2	2.29	0.43
1:I:43:ARG:NH1	1:I:44:THR:HG23	2.34	0.43
1:I:507:ASP:C	1:I:519:SER:HB2	2.39	0.43
1:J:253:TYR:O	1:J:318:ALA:N	2.52	0.43
1:J:650:GLU:HB3	1:J:670:LEU:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:655:MET:C	1:J:655:MET:HE2	2.39	0.43
1:K:322:LEU:HD23	1:K:324:GLU:N	2.33	0.43
1:K:482:ARG:HH11	1:K:482:ARG:HD2	1.67	0.43
1:K:65:ALA:CB	1:K:66:PRO:HD2	2.33	0.43
1:L:479:ASP:N	1:L:480:PRO:HD3	2.33	0.43
1:M:234:ASP:OD2	1:M:236:SER:HB3	2.19	0.43
1:M:261:TRP:HA	1:M:267:VAL:HG23	2.01	0.43
1:M:53:SER:O	1:M:54:LEU:HD23	2.18	0.43
1:M:687:GLN:HA	1:M:688:PRO:HD3	1.75	0.43
1:M:657:ALA:O	1:M:694:LEU:HD12	2.18	0.43
1:M:780:LEU:HA	1:M:886:CYS:HB3	2.01	0.43
1:N:142:ILE:HG23	1:N:170:GLU:HG2	2.01	0.43
1:N:737:ILE:HB	1:N:738:PRO:HD2	2.00	0.43
1:O:234:ASP:OD2	1:O:236:SER:HB3	2.19	0.43
1:O:257:THR:HG22	1:O:258:VAL:N	2.33	0.43
1:P:118:ASN:HA	1:P:119:PRO:HD2	1.61	0.43
1:A:141:ILE:HG12	1:A:142:ILE:H	1.84	0.43
1:A:149:ALA:O	1:A:150:PHE:HB3	2.18	0.43
1:A:167:LEU:CB	1:A:168:PRO:HD2	2.49	0.43
1:A:103:VAL:O	1:A:199:ASP:OD2	2.36	0.43
1:A:302:SER:HB2	1:A:304:GLU:H	1.83	0.43
1:A:65:ALA:HB1	1:A:66:PRO:CD	2.41	0.43
1:B:59:ARG:NH1	1:B:81:ALA:HB3	2.34	0.43
1:B:870:VAL:HG12	1:B:871:GLU:N	2.34	0.43
1:C:802:ASP:HA	1:C:803:PRO:HD3	1.87	0.43
1:C:836:ILE:HG22	1:C:837:THR:N	2.34	0.43
1:D:322:LEU:HD23	1:D:324:GLU:N	2.33	0.43
1:D:347:LYS:HA	1:D:348:PRO:HD3	1.77	0.43
1:D:43:ARG:NH1	1:D:44:THR:HG23	2.34	0.43
1:D:570:TRP:HD1	1:D:571:VAL:HG22	1.82	0.43
1:D:650:GLU:HB3	1:D:670:LEU:HD12	2.01	0.43
1:D:694:LEU:O	1:D:722:LEU:N	2.51	0.43
1:D:737:ILE:HB	1:D:738:PRO:HD2	2.01	0.43
1:E:234:ASP:OD2	1:E:236:SER:HB3	2.19	0.43
1:E:53:SER:O	1:E:54:LEU:HD23	2.18	0.43
1:E:724:GLU:O	1:F:847:LYS:NZ	2.51	0.43
1:E:78:LEU:HB3	1:E:79:PRO:CD	2.41	0.43
1:E:836:ILE:HG22	1:E:837:THR:N	2.34	0.43
1:E:876:THR:OG1	1:E:877:PRO:HD2	2.18	0.43
1:F:254:LEU:HD23	1:F:254:LEU:HA	1.51	0.43
1:F:260:LEU:HA	1:F:260:LEU:HD12	1.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:657:ALA:O	1:F:694:LEU:HD12	2.18	0.43
1:F:737:ILE:HB	1:F:738:PRO:HD2	2.01	0.43
1:F:802:ASP:HA	1:F:803:PRO:HD3	1.88	0.43
1:G:260:LEU:HA	1:G:260:LEU:HD12	1.70	0.43
1:G:261:TRP:HA	1:G:267:VAL:HG23	2.01	0.43
1:G:507:ASP:C	1:G:519:SER:HB2	2.39	0.43
1:G:737:ILE:HB	1:G:738:PRO:HD2	2.00	0.43
1:H:387:VAL:CG2	1:H:388:ARG:N	2.81	0.43
1:H:429:ASP:OD1	1:H:431:ARG:N	2.46	0.43
1:H:780:LEU:HA	1:H:886:CYS:HB3	2.01	0.43
1:H:849:LEU:N	1:H:849:LEU:HD23	2.33	0.43
1:I:167:LEU:CB	1:I:168:PRO:HD2	2.49	0.43
1:I:429:ASP:HA	1:I:430:PRO:HD3	1.55	0.43
1:I:870:VAL:HG12	1:I:871:GLU:N	2.34	0.43
1:J:30:HIS:ND1	1:J:33:PHE:CE1	2.86	0.43
1:J:479:ASP:HA	1:J:480:PRO:HD2	1.55	0.43
1:J:658:LEU:N	1:J:661:LYS:O	2.39	0.43
1:J:780:LEU:HA	1:J:886:CYS:HB3	2.01	0.43
1:K:214:LEU:HA	1:K:214:LEU:HD23	1.73	0.43
1:K:870:VAL:HG12	1:K:871:GLU:N	2.34	0.43
1:L:272:ALA:HB1	1:L:273:PRO:CD	2.49	0.43
1:L:362:LEU:HA	1:L:362:LEU:HD23	1.70	0.43
1:L:507:ASP:C	1:L:519:SER:HB2	2.39	0.43
1:L:655:MET:C	1:L:655:MET:HE2	2.39	0.43
1:M:103:VAL:O	1:M:199:ASP:OD2	2.36	0.43
1:M:579:ASP:N	1:M:583:ASN:O	2.47	0.43
1:M:779:PRO:O	1:M:781:ARG:HD3	2.19	0.43
1:N:43:ARG:NH1	1:N:44:THR:HG23	2.34	0.43
1:N:507:ASP:C	1:N:519:SER:HB2	2.39	0.43
1:N:654:TRP:O	1:N:655:MET:HB3	2.18	0.43
1:O:13:ARG:O	1:O:14:ARG:HB2	2.18	0.43
1:O:507:ASP:C	1:O:519:SER:HB2	2.39	0.43
1:O:876:THR:OG1	1:O:877:PRO:HD2	2.18	0.43
1:P:261:TRP:HA	1:P:267:VAL:HG23	2.01	0.43
1:A:127:PHE:O	1:A:182:ASN:N	2.34	0.43
1:A:737:ILE:HB	1:A:738:PRO:HD2	2.01	0.43
1:B:257:THR:HG22	1:B:258:VAL:N	2.33	0.43
1:B:471:LEU:HA	1:B:471:LEU:HD23	1.84	0.43
1:B:567:VAL:HG12	1:B:568:TRP:N	2.33	0.43
1:B:650:GLU:HB3	1:B:670:LEU:HD12	2.01	0.43
1:C:237:ARG:HE	1:C:237:ARG:HB2	1.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:256:VAL:O	1:C:271:THR:HA	2.17	0.43
1:C:30:HIS:ND1	1:C:33:PHE:CE1	2.86	0.43
1:C:322:LEU:HD23	1:C:324:GLU:N	2.33	0.43
1:C:876:THR:OG1	1:C:877:PRO:HD2	2.18	0.43
1:D:13:ARG:O	1:D:14:ARG:HB2	2.18	0.43
1:A:283:GLY:O	1:D:422:PRO:HB3	2.18	0.43
1:D:654:TRP:O	1:D:655:MET:HB3	2.18	0.43
1:E:302:SER:HB2	1:E:304:GLU:H	1.83	0.43
1:E:471:LEU:O	1:E:475:ILE:HG13	2.19	0.43
1:E:878:HIS:HA	1:E:879:PRO:HD3	1.74	0.43
1:E:780:LEU:HA	1:E:886:CYS:HB3	2.01	0.43
1:F:149:ALA:O	1:F:150:PHE:HB3	2.18	0.43
1:F:257:THR:HG22	1:F:258:VAL:N	2.33	0.43
1:F:30:HIS:ND1	1:F:33:PHE:CE1	2.86	0.43
1:H:18:ASN:HD22	1:H:21:VAL:HG23	1.80	0.43
1:H:261:TRP:HA	1:H:267:VAL:HG23	2.01	0.43
1:H:471:LEU:O	1:H:475:ILE:HG13	2.19	0.43
1:H:658:LEU:N	1:H:661:LYS:O	2.39	0.43
1:H:78:LEU:HB3	1:H:79:PRO:CD	2.41	0.43
1:I:347:LYS:HA	1:I:348:PRO:HD3	1.77	0.43
1:I:387:VAL:CG2	1:I:388:ARG:N	2.81	0.43
1:I:652:LEU:HD11	1:I:698:VAL:HB	2.00	0.43
1:I:708:TRP:N	1:I:708:TRP:CD1	2.83	0.43
1:J:347:LYS:HA	1:J:348:PRO:HD3	1.77	0.43
1:K:256:VAL:CG1	1:K:257:THR:N	2.82	0.43
1:K:507:ASP:C	1:K:519:SER:HB2	2.39	0.43
1:K:59:ARG:NH1	1:K:81:ALA:HB3	2.34	0.43
1:K:836:ILE:HG22	1:K:837:THR:N	2.34	0.43
1:L:178:ARG:CB	1:L:178:ARG:NH1	2.78	0.43
1:L:221:GLN:HG2	1:L:221:GLN:H	1.74	0.43
1:L:217:LYS:NZ	1:L:326:GLU:OE2	2.50	0.43
1:L:655:MET:HB2	1:L:655:MET:HE3	1.87	0.43
1:L:66:PRO:HA	1:L:187:MET:HE3	2.01	0.43
1:L:737:ILE:HB	1:L:738:PRO:HD2	2.01	0.43
1:M:989:PHE:CE1	1:M:1014:TYR:HB3	2.54	0.43
1:M:65:ALA:HB1	1:M:66:PRO:CD	2.41	0.43
1:N:13:ARG:O	1:N:14:ARG:HB2	2.18	0.43
1:N:261:TRP:HA	1:N:267:VAL:HG23	2.01	0.43
1:O:261:TRP:HA	1:O:267:VAL:HG23	2.01	0.43
1:O:312:VAL:HG12	1:O:313:VAL:N	2.33	0.43
1:O:322:LEU:HD23	1:O:324:GLU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:471:LEU:O	1:O:475:ILE:HG13	2.19	0.43
1:O:92:MET:HE3	1:O:362:LEU:O	2.19	0.43
1:P:234:ASP:OD2	1:P:236:SER:HB3	2.19	0.43
1:P:253:TYR:O	1:P:318:ALA:N	2.52	0.43
1:P:507:ASP:C	1:P:519:SER:HB2	2.39	0.43
1:P:570:TRP:HD1	1:P:571:VAL:HG22	1.82	0.43
1:P:682:LEU:HD23	1:P:682:LEU:HA	1.70	0.43
1:P:778:THR:HB	1:P:887:GLN:CB	2.49	0.43
1:P:59:ARG:NH1	1:P:81:ALA:HB3	2.34	0.43
1:P:780:LEU:HA	1:P:886:CYS:HB3	2.01	0.43
1:A:118:ASN:HA	1:A:119:PRO:HD2	1.61	0.42
1:A:657:ALA:O	1:A:694:LEU:HD12	2.18	0.42
1:B:167:LEU:CB	1:B:168:PRO:HD2	2.49	0.42
1:B:256:VAL:CG1	1:B:257:THR:N	2.82	0.42
1:B:780:LEU:HA	1:B:886:CYS:HB3	2.01	0.42
1:B:937:LEU:HG	1:B:938:ARG:N	2.34	0.42
1:B:949:HIS:CD2	1:B:1020:TRP:NE1	2.78	0.42
1:C:234:ASP:OD2	1:C:236:SER:HB3	2.19	0.42
1:D:421:VAL:HA	1:D:422:PRO:C	2.40	0.42
1:D:479:ASP:HA	1:D:480:PRO:HD2	1.55	0.42
1:E:13:ARG:O	1:E:14:ARG:HB2	2.18	0.42
1:E:253:TYR:O	1:E:318:ALA:N	2.52	0.42
1:E:387:VAL:CG2	1:E:388:ARG:N	2.81	0.42
1:E:645:ARG:NH2	1:E:650:GLU:OE2	2.50	0.42
1:F:261:TRP:HA	1:F:267:VAL:HG23	2.01	0.42
1:F:302:SER:HB2	1:F:304:GLU:H	1.84	0.42
1:F:43:ARG:NH1	1:F:44:THR:HG23	2.34	0.42
1:F:701:VAL:CG1	1:F:702:GLN:N	2.82	0.42
1:F:779:PRO:O	1:F:781:ARG:HD3	2.18	0.42
1:F:780:LEU:HA	1:F:886:CYS:HB3	2.01	0.42
1:G:989:PHE:CE1	1:G:1014:TYR:HB3	2.54	0.42
1:G:312:VAL:HG12	1:G:313:VAL:N	2.34	0.42
1:G:387:VAL:CG2	1:G:388:ARG:N	2.81	0.42
1:G:471:LEU:O	1:G:475:ILE:HG13	2.19	0.42
1:G:937:LEU:HG	1:G:938:ARG:N	2.34	0.42
1:H:272:ALA:HA	1:H:273:PRO:HD3	1.75	0.42
1:H:302:SER:HB2	1:H:304:GLU:H	1.83	0.42
1:H:66:PRO:HA	1:H:187:MET:HE3	2.01	0.42
1:I:1006:GLU:H	1:I:1006:GLU:HG3	1.00	0.42
1:I:214:LEU:HA	1:I:214:LEU:HD23	1.73	0.42
1:I:256:VAL:CG1	1:I:257:THR:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:937:LEU:HG	1:I:938:ARG:N	2.34	0.42
1:I:939:CYS:HA	1:I:956:GLN:HB3	2.01	0.42
1:J:147:ASN:HA	1:J:148:SER:HA	1.63	0.42
1:J:939:CYS:HA	1:J:956:GLN:HB3	2.01	0.42
1:K:100:TYR:O	1:K:597:ASN:HA	2.19	0.42
1:K:655:MET:HE2	1:K:655:MET:C	2.39	0.42
1:L:142:ILE:HG23	1:L:170:GLU:HG2	2.01	0.42
1:M:43:ARG:NH1	1:M:44:THR:HG23	2.34	0.42
1:N:779:PRO:O	1:N:781:ARG:HD3	2.19	0.42
1:O:694:LEU:HA	1:O:694:LEU:HD12	1.73	0.42
1:O:737:ILE:HB	1:O:738:PRO:HD2	2.01	0.42
1:P:989:PHE:CE1	1:P:1014:TYR:HB3	2.54	0.42
1:P:142:ILE:HG23	1:P:170:GLU:HG2	2.01	0.42
1:P:257:THR:HG22	1:P:258:VAL:N	2.33	0.42
1:P:256:VAL:CG1	1:P:257:THR:N	2.82	0.42
1:A:272:ALA:HB1	1:A:273:PRO:CD	2.49	0.42
1:A:421:VAL:HA	1:A:422:PRO:C	2.40	0.42
1:A:654:TRP:O	1:A:655:MET:HB3	2.18	0.42
1:A:701:VAL:CG1	1:A:702:GLN:N	2.82	0.42
1:A:836:ILE:HG22	1:A:837:THR:N	2.34	0.42
1:B:124:SER:HA	1:B:184:LEU:O	2.19	0.42
1:B:362:LEU:HD23	1:B:362:LEU:HA	1.70	0.42
1:C:142:ILE:HG23	1:C:170:GLU:HG2	2.01	0.42
1:C:293:LEU:N	1:C:293:LEU:CD2	2.82	0.42
1:C:387:VAL:CG2	1:C:388:ARG:N	2.81	0.42
1:C:421:VAL:HA	1:C:422:PRO:C	2.40	0.42
1:C:53:SER:O	1:C:54:LEU:HD23	2.18	0.42
1:C:726:LEU:HD23	1:C:726:LEU:HA	1.85	0.42
1:C:937:LEU:HG	1:C:938:ARG:N	2.34	0.42
1:D:261:TRP:HA	1:D:267:VAL:HG23	2.01	0.42
1:E:43:ARG:NH1	1:E:44:THR:HG23	2.34	0.42
1:E:779:PRO:O	1:E:781:ARG:HD3	2.18	0.42
1:E:937:LEU:HG	1:E:938:ARG:N	2.34	0.42
1:F:256:VAL:CG1	1:F:257:THR:N	2.82	0.42
1:F:272:ALA:HB1	1:F:273:PRO:CD	2.49	0.42
1:F:429:ASP:OD1	1:F:431:ARG:N	2.46	0.42
1:F:655:MET:HE2	1:F:655:MET:C	2.40	0.42
1:F:59:ARG:NH1	1:F:81:ALA:HB3	2.34	0.42
1:F:849:LEU:N	1:F:849:LEU:HD23	2.33	0.42
1:G:178:ARG:CB	1:G:178:ARG:NH1	2.78	0.42
1:H:142:ILE:HG23	1:H:170:GLU:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:167:LEU:CB	1:H:168:PRO:HD2	2.49	0.42
1:H:234:ASP:OD2	1:H:236:SER:HB3	2.19	0.42
1:H:312:VAL:HG12	1:H:313:VAL:N	2.34	0.42
1:H:362:LEU:HA	1:H:362:LEU:HD23	1.70	0.42
1:H:507:ASP:C	1:H:519:SER:HB2	2.39	0.42
1:H:778:THR:HB	1:H:887:GLN:CB	2.49	0.42
1:H:59:ARG:NH1	1:H:81:ALA:HB3	2.34	0.42
1:I:302:SER:HB2	1:I:304:GLU:H	1.83	0.42
1:I:836:ILE:HG22	1:I:837:THR:N	2.34	0.42
1:I:778:THR:HB	1:I:887:GLN:CB	2.50	0.42
1:J:65:ALA:HB1	1:J:66:PRO:CD	2.41	0.42
1:J:802:ASP:HA	1:J:803:PRO:HD3	1.88	0.42
1:K:43:ARG:NH1	1:K:44:THR:HG23	2.34	0.42
1:K:361:PRO:HB2	1:K:576:ILE:HD12	2.00	0.42
1:K:658:LEU:N	1:K:661:LYS:O	2.39	0.42
1:K:694:LEU:HA	1:K:694:LEU:HD12	1.73	0.42
1:L:100:TYR:O	1:L:597:ASN:HA	2.19	0.42
1:L:256:VAL:N	1:L:272:ALA:O	2.47	0.42
1:L:740:LEU:HD13	1:L:749:ILE:HD12	1.99	0.42
1:M:141:ILE:HG12	1:M:142:ILE:H	1.84	0.42
1:M:387:VAL:CG2	1:M:388:ARG:N	2.81	0.42
1:N:30:HIS:ND1	1:N:33:PHE:CE1	2.86	0.42
1:N:655:MET:HE2	1:N:655:MET:C	2.40	0.42
1:N:989:PHE:CE1	1:N:1014:TYR:HB3	2.54	0.42
1:O:100:TYR:O	1:O:597:ASN:HA	2.19	0.42
1:O:989:PHE:CE1	1:O:1014:TYR:HB3	2.54	0.42
1:O:360:HIS:HA	1:O:361:PRO:HD3	1.81	0.42
1:O:377:LEU:HA	1:O:377:LEU:HD22	1.69	0.42
1:O:870:VAL:HG12	1:O:871:GLU:N	2.34	0.42
1:P:111:PRO:HA	1:P:112:PRO:HA	1.74	0.42
1:A:124:SER:HA	1:A:184:LEU:O	2.20	0.42
1:A:142:ILE:HG23	1:A:170:GLU:HG2	2.01	0.42
1:A:261:TRP:HA	1:A:267:VAL:HG23	2.01	0.42
1:A:322:LEU:HD23	1:A:324:GLU:N	2.33	0.42
1:A:360:HIS:HA	1:A:361:PRO:HD3	1.81	0.42
1:B:100:TYR:O	1:B:597:ASN:HA	2.20	0.42
1:B:471:LEU:O	1:B:475:ILE:HG13	2.19	0.42
1:B:657:ALA:O	1:B:694:LEU:HD12	2.18	0.42
1:C:100:TYR:O	1:C:597:ASN:HA	2.20	0.42
1:C:1018:LEU:HD23	1:C:1018:LEU:HA	1.53	0.42
1:C:13:ARG:O	1:C:14:ARG:HB2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:257:THR:HG22	1:C:258:VAL:N	2.33	0.42
1:C:654:TRP:O	1:C:655:MET:HB3	2.18	0.42
1:D:100:TYR:O	1:D:597:ASN:HA	2.19	0.42
1:D:272:ALA:HB1	1:D:273:PRO:CD	2.49	0.42
1:C:874:SER:HB3	1:D:724:GLU:OE1	2.19	0.42
1:D:778:THR:HB	1:D:887:GLN:CB	2.49	0.42
1:D:947:GLY:HA3	1:D:948:PRO:HD2	1.79	0.42
1:E:274:PHE:HB3	1:E:286:ALA:O	2.19	0.42
1:E:312:VAL:HG12	1:E:313:VAL:N	2.33	0.42
1:E:100:TYR:O	1:E:597:ASN:HA	2.20	0.42
1:F:100:TYR:O	1:F:597:ASN:HA	2.20	0.42
1:F:778:THR:HB	1:F:887:GLN:CB	2.49	0.42
1:F:800:ARG:HE	1:F:800:ARG:HB2	1.58	0.42
1:G:100:TYR:O	1:G:597:ASN:HA	2.19	0.42
1:G:745:MET:CE	1:G:745:MET:CA	2.97	0.42
1:G:778:THR:HB	1:G:887:GLN:CB	2.49	0.42
1:H:360:HIS:ND1	1:H:362:LEU:HB2	2.33	0.42
1:H:74:LEU:HA	1:H:74:LEU:HD23	1.85	0.42
1:H:937:LEU:HG	1:H:938:ARG:N	2.34	0.42
1:I:234:ASP:OD2	1:I:236:SER:HB3	2.19	0.42
1:I:274:PHE:HB3	1:I:286:ALA:O	2.19	0.42
1:I:740:LEU:HD13	1:I:749:ILE:HD11	2.02	0.42
1:I:876:THR:OG1	1:I:877:PRO:HD2	2.18	0.42
1:K:654:TRP:O	1:K:655:MET:HB3	2.18	0.42
1:L:234:ASP:OD2	1:L:236:SER:HB3	2.19	0.42
1:L:650:GLU:HB3	1:L:670:LEU:HD12	2.01	0.42
1:M:18:ASN:HD22	1:M:21:VAL:HG23	1.80	0.42
1:M:429:ASP:HA	1:M:430:PRO:HD3	1.55	0.42
1:M:66:PRO:HA	1:M:187:MET:HE3	2.00	0.42
1:M:937:LEU:HG	1:M:938:ARG:N	2.34	0.42
1:N:387:VAL:CG2	1:N:388:ARG:N	2.81	0.42
1:N:571:VAL:HG13	1:N:607:VAL:CG2	2.44	0.42
1:N:657:ALA:O	1:N:694:LEU:HD12	2.18	0.42
1:O:745:MET:CA	1:O:745:MET:CE	2.97	0.42
1:P:173:LEU:HD23	1:P:173:LEU:HA	1.52	0.42
1:P:272:ALA:HA	1:P:273:PRO:HD3	1.75	0.42
1:P:363:HIS:CD2	1:P:363:HIS:N	2.84	0.42
1:P:100:TYR:O	1:P:597:ASN:HA	2.20	0.42
1:A:43:ARG:NH1	1:A:44:THR:HG23	2.34	0.42
1:A:576:ILE:CG2	1:A:577:LYS:N	2.77	0.42
1:A:650:GLU:HB3	1:A:670:LEU:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:360:HIS:ND1	1:B:362:LEU:HB2	2.33	0.42
1:B:507:ASP:C	1:B:519:SER:HB2	2.39	0.42
1:B:651:LEU:HD13	1:B:651:LEU:HA	1.49	0.42
1:B:658:LEU:O	1:B:659:ASP:C	2.58	0.42
1:B:778:THR:HB	1:B:887:GLN:HB3	2.00	0.42
1:B:779:PRO:O	1:B:781:ARG:HD3	2.19	0.42
1:C:256:VAL:CG1	1:C:257:THR:N	2.82	0.42
1:C:479:ASP:HA	1:C:480:PRO:HD2	1.55	0.42
1:C:655:MET:HE2	1:C:655:MET:C	2.40	0.42
1:C:652:LEU:HD11	1:C:698:VAL:HB	2.00	0.42
1:C:778:THR:HB	1:C:887:GLN:CB	2.49	0.42
1:C:780:LEU:HA	1:C:886:CYS:HB3	2.01	0.42
1:D:260:LEU:HA	1:D:260:LEU:HD12	1.69	0.42
1:D:507:ASP:C	1:D:519:SER:HB2	2.39	0.42
1:D:59:ARG:NH1	1:D:81:ALA:HB3	2.34	0.42
1:D:69:VAL:HA	1:D:70:PRO:HD3	1.87	0.42
1:D:937:LEU:HG	1:D:938:ARG:N	2.34	0.42
1:E:103:VAL:O	1:E:199:ASP:OD2	2.36	0.42
1:E:567:VAL:HG12	1:E:568:TRP:N	2.33	0.42
1:E:778:THR:HB	1:E:887:GLN:CB	2.49	0.42
1:F:124:SER:HA	1:F:184:LEU:O	2.20	0.42
1:F:360:HIS:HA	1:F:361:PRO:HD3	1.81	0.42
1:F:507:ASP:C	1:F:519:SER:HB2	2.39	0.42
1:F:836:ILE:HG22	1:F:837:THR:N	2.34	0.42
1:G:43:ARG:NH1	1:G:44:THR:HG23	2.34	0.42
1:G:870:VAL:HG12	1:G:871:GLU:N	2.34	0.42
1:G:92:MET:HE3	1:G:362:LEU:O	2.19	0.42
1:H:103:VAL:O	1:H:199:ASP:OD2	2.36	0.42
1:H:251:ARG:CB	1:H:253:TYR:CE2	2.97	0.42
1:H:257:THR:HG22	1:H:258:VAL:N	2.33	0.42
1:H:779:PRO:O	1:H:781:ARG:HD3	2.19	0.42
1:J:142:ILE:HG23	1:J:170:GLU:HG2	2.01	0.42
1:J:254:LEU:HA	1:J:254:LEU:HD23	1.51	0.42
1:J:778:THR:HB	1:J:887:GLN:CB	2.49	0.42
1:K:124:SER:HA	1:K:184:LEU:O	2.20	0.42
1:K:173:LEU:HD23	1:K:173:LEU:HA	1.53	0.42
1:K:305:ILE:HA	1:K:306:PRO:HD3	1.81	0.42
1:K:421:VAL:HA	1:K:422:PRO:C	2.40	0.42
1:K:471:LEU:O	1:K:475:ILE:HG13	2.19	0.42
1:L:18:ASN:HD22	1:L:21:VAL:HG23	1.80	0.42
1:M:302:SER:HB2	1:M:304:GLU:H	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:100:TYR:O	1:M:597:ASN:HA	2.19	0.42
1:N:778:THR:HB	1:N:887:GLN:CB	2.49	0.42
1:N:780:LEU:HA	1:N:886:CYS:HB3	2.01	0.42
1:N:800:ARG:HE	1:N:800:ARG:HB2	1.58	0.42
1:O:302:SER:HB2	1:O:304:GLU:H	1.84	0.42
1:O:43:ARG:NH1	1:O:44:THR:HG23	2.34	0.42
1:O:53:SER:O	1:O:54:LEU:HD23	2.18	0.42
1:O:66:PRO:HD2	1:O:67:GLU:OE1	2.20	0.42
1:O:779:PRO:O	1:O:781:ARG:HD3	2.19	0.42
1:O:780:LEU:HA	1:O:886:CYS:HB3	2.01	0.42
1:P:476:LYS:HD2	1:P:476:LYS:HA	1.81	0.42
1:A:419:GLY:HA2	1:D:282:ARG:HH11	1.84	0.42
1:A:59:ARG:NH1	1:A:81:ALA:HB3	2.34	0.42
1:B:421:VAL:HA	1:B:422:PRO:C	2.40	0.42
1:B:429:ASP:HA	1:B:430:PRO:HD3	1.55	0.42
1:B:66:PRO:HD2	1:B:67:GLU:OE1	2.20	0.42
1:C:658:LEU:N	1:C:661:LYS:O	2.39	0.42
1:D:1018:LEU:HA	1:D:1018:LEU:HD23	1.53	0.42
1:D:658:LEU:O	1:D:659:ASP:C	2.58	0.42
1:D:682:LEU:HD23	1:D:682:LEU:HA	1.70	0.42
1:D:3:ILE:O	1:D:6:SER:HB3	2.20	0.42
1:D:701:VAL:CG1	1:D:702:GLN:N	2.82	0.42
1:D:836:ILE:HG22	1:D:837:THR:N	2.34	0.42
1:E:124:SER:HA	1:E:184:LEU:O	2.20	0.42
1:E:221:GLN:HB3	1:E:221:GLN:HE21	1.58	0.42
1:E:347:LYS:CB	1:E:348:PRO:HD2	2.43	0.42
1:F:312:VAL:HG12	1:F:313:VAL:N	2.34	0.42
1:F:387:VAL:CG2	1:F:388:ARG:N	2.81	0.42
1:F:425:ARG:HH22	1:G:287:ASP:CG	2.23	0.42
1:G:360:HIS:HA	1:G:361:PRO:HD3	1.81	0.42
1:G:53:SER:O	1:G:54:LEU:HD23	2.18	0.42
1:G:645:ARG:NH2	1:G:650:GLU:OE2	2.50	0.42
1:G:66:PRO:HD2	1:G:67:GLU:OE1	2.20	0.42
1:G:780:LEU:HA	1:G:886:CYS:HB3	2.01	0.42
1:H:141:ILE:HG12	1:H:142:ILE:H	1.84	0.42
1:H:274:PHE:HB3	1:H:286:ALA:O	2.19	0.42
1:H:650:GLU:HB3	1:H:670:LEU:HD12	2.01	0.42
1:I:100:TYR:O	1:I:597:ASN:HA	2.19	0.42
1:I:312:VAL:HG12	1:I:313:VAL:N	2.33	0.42
1:J:234:ASP:OD2	1:J:236:SER:HB3	2.19	0.42
1:J:479:ASP:N	1:J:480:PRO:HD3	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:507:ASP:C	1:J:519:SER:HB2	2.39	0.42
1:J:779:PRO:O	1:J:781:ARG:HD3	2.19	0.42
1:J:849:LEU:HD23	1:J:849:LEU:N	2.33	0.42
1:J:870:VAL:HG12	1:J:871:GLU:N	2.34	0.42
1:J:901:GLY:HA3	1:J:902:PRO:HA	1.68	0.42
1:K:347:LYS:HA	1:K:348:PRO:HD3	1.78	0.42
1:K:694:LEU:O	1:K:722:LEU:N	2.51	0.42
1:K:722:LEU:HA	1:K:722:LEU:HD23	1.76	0.42
1:L:124:SER:HA	1:L:184:LEU:O	2.20	0.42
1:M:124:SER:HA	1:M:184:LEU:O	2.20	0.42
1:M:257:THR:HG22	1:M:258:VAL:N	2.33	0.42
1:M:256:VAL:CG1	1:M:257:THR:N	2.82	0.42
1:M:274:PHE:HB3	1:M:286:ALA:O	2.19	0.42
1:M:567:VAL:HG12	1:M:568:TRP:N	2.33	0.42
1:M:737:ILE:HB	1:M:738:PRO:HD2	2.01	0.42
1:M:59:ARG:NH1	1:M:81:ALA:HB3	2.34	0.42
1:N:403:ASP:OD1	1:N:451:PRO:HD2	2.20	0.42
1:P:103:VAL:O	1:P:199:ASP:OD2	2.36	0.42
1:P:251:ARG:CB	1:P:253:TYR:CE2	2.97	0.42
1:P:312:VAL:HG12	1:P:313:VAL:N	2.33	0.42
1:P:654:TRP:O	1:P:655:MET:HB3	2.18	0.42
1:P:694:LEU:O	1:P:722:LEU:N	2.51	0.42
1:P:748:CME:HZ2	1:P:755:ARG:HH11	1.82	0.42
1:A:274:PHE:HB3	1:A:286:ALA:O	2.19	0.42
1:A:31:PRO:HA	1:A:32:PRO:HD3	1.79	0.42
1:A:900:LEU:HA	1:A:900:LEU:HD23	1.81	0.42
1:B:234:ASP:OD2	1:B:236:SER:HB3	2.19	0.42
1:B:274:PHE:HB3	1:B:286:ALA:O	2.19	0.42
1:B:657:ALA:HA	1:B:661:LYS:O	2.20	0.42
1:B:836:ILE:HG22	1:B:837:THR:N	2.34	0.42
1:C:167:LEU:CB	1:C:168:PRO:HD2	2.49	0.42
1:C:30:HIS:CB	1:C:31:PRO:CD	2.95	0.42
1:C:66:PRO:HA	1:C:187:MET:HE3	2.01	0.42
1:C:722:LEU:HA	1:C:722:LEU:HD23	1.75	0.42
1:D:53:SER:O	1:D:54:LEU:HD23	2.18	0.42
1:E:214:LEU:HA	1:E:214:LEU:HD23	1.73	0.42
1:E:3:ILE:O	1:E:6:SER:HB3	2.20	0.42
1:E:66:PRO:HD2	1:E:67:GLU:OE1	2.20	0.42
1:E:849:LEU:HD23	1:E:849:LEU:N	2.33	0.42
1:F:100:TYR:CE1	1:F:602:CYS:HB3	2.55	0.42
1:F:237:ARG:HE	1:F:237:ARG:HB2	1.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:274:PHE:HB3	1:F:286:ALA:O	2.19	0.42
1:F:612:THR:HA	1:F:613:PRO:HD3	1.67	0.42
1:F:66:PRO:HD2	1:F:67:GLU:OE1	2.20	0.42
1:F:939:CYS:HA	1:F:956:GLN:HB3	2.01	0.42
1:G:583:ASN:HA	1:G:584:PRO:HD3	1.79	0.42
1:G:740:LEU:HD13	1:G:749:ILE:HD11	2.02	0.42
1:H:100:TYR:O	1:H:597:ASN:HA	2.20	0.42
1:I:232:ASN:OD1	1:I:235:PHE:N	2.53	0.42
1:I:567:VAL:HG12	1:I:568:TRP:N	2.33	0.42
1:I:59:ARG:NH1	1:I:81:ALA:HB3	2.34	0.42
1:J:989:PHE:CE1	1:J:1014:TYR:HB3	2.54	0.42
1:J:18:ASN:HD22	1:J:21:VAL:HG23	1.80	0.42
1:J:654:TRP:O	1:J:655:MET:HB3	2.18	0.42
1:K:360:HIS:HA	1:K:361:PRO:HD3	1.81	0.42
1:K:780:LEU:HA	1:K:886:CYS:HB3	2.01	0.42
1:L:3:ILE:O	1:L:6:SER:HB3	2.20	0.42
1:L:780:LEU:HA	1:L:886:CYS:HB3	2.01	0.42
1:M:701:VAL:CG1	1:M:702:GLN:N	2.82	0.42
1:M:778:THR:HB	1:M:887:GLN:CB	2.49	0.42
1:N:100:TYR:CE1	1:N:602:CYS:HB3	2.55	0.42
1:N:312:VAL:HG12	1:N:313:VAL:N	2.33	0.42
1:M:730:LEU:HD21	1:N:823:LEU:O	2.20	0.42
1:O:124:SER:HA	1:O:184:LEU:O	2.20	0.42
1:O:3:ILE:O	1:O:6:SER:HB3	2.20	0.42
1:O:59:ARG:NH1	1:O:81:ALA:HB3	2.34	0.42
1:O:939:CYS:HA	1:O:956:GLN:HB3	2.01	0.42
1:P:100:TYR:CE1	1:P:602:CYS:HB3	2.55	0.42
1:P:387:VAL:CG2	1:P:388:ARG:N	2.81	0.42
1:P:429:ASP:OD1	1:P:431:ARG:N	2.46	0.42
1:P:479:ASP:N	1:P:480:PRO:HD3	2.33	0.42
1:P:650:GLU:HB3	1:P:670:LEU:HD12	2.01	0.42
1:A:141:ILE:C	1:A:142:ILE:HG13	2.40	0.42
1:A:234:ASP:OD2	1:A:236:SER:HB3	2.19	0.42
1:A:377:LEU:HD22	1:A:377:LEU:HA	1.69	0.42
1:A:66:PRO:HD2	1:A:67:GLU:OE1	2.20	0.42
1:B:30:HIS:CB	1:B:31:PRO:CD	2.95	0.42
1:B:745:MET:CA	1:B:745:MET:CE	2.97	0.42
1:C:278:ILE:HG22	1:C:279:ILE:N	2.35	0.42
1:C:59:ARG:NH1	1:C:81:ALA:HB3	2.34	0.42
1:C:849:LEU:N	1:C:849:LEU:HD23	2.33	0.42
1:D:403:ASP:OD1	1:D:451:PRO:HD2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:856:TYR:CD2	1:D:864:MET:HE2	2.55	0.42
1:E:559:TYR:HA	1:E:560:PRO:HD2	1.80	0.42
1:F:167:LEU:CB	1:F:168:PRO:HD2	2.49	0.42
1:F:253:TYR:O	1:F:318:ALA:N	2.52	0.42
1:F:878:HIS:HA	1:F:879:PRO:HD3	1.74	0.42
1:G:124:SER:HA	1:G:184:LEU:O	2.20	0.42
1:G:141:ILE:HG12	1:G:142:ILE:H	1.84	0.42
1:G:59:ARG:NH1	1:G:81:ALA:HB3	2.34	0.42
1:G:849:LEU:N	1:G:849:LEU:HD23	2.33	0.42
1:I:471:LEU:O	1:I:475:ILE:HG13	2.19	0.42
1:I:658:LEU:O	1:I:659:ASP:C	2.58	0.42
1:I:745:MET:CA	1:I:745:MET:CE	2.97	0.42
1:I:805:ALA:O	1:I:808:GLU:HB2	2.20	0.42
1:I:780:LEU:HA	1:I:886:CYS:HB3	2.01	0.42
1:J:274:PHE:HB3	1:J:286:ALA:O	2.19	0.42
1:K:141:ILE:C	1:K:142:ILE:HG13	2.40	0.42
1:K:661:LYS:HA	1:K:662:PRO:HD3	1.72	0.42
1:K:667:GLU:C	1:K:668:VAL:HG23	2.40	0.42
1:K:730:LEU:HA	1:K:731:PRO:HD3	1.78	0.42
1:K:856:TYR:HB3	1:K:864:MET:HE2	2.02	0.42
1:K:937:LEU:HG	1:K:938:ARG:N	2.34	0.42
1:L:989:PHE:CE1	1:L:1014:TYR:HB3	2.54	0.42
1:L:221:GLN:HB3	1:L:221:GLN:HE21	1.58	0.42
1:L:261:TRP:HA	1:L:267:VAL:HG23	2.01	0.42
1:L:579:ASP:N	1:L:583:ASN:O	2.47	0.42
1:L:655:MET:O	1:L:655:MET:HG3	2.14	0.42
1:L:667:GLU:C	1:L:668:VAL:HG23	2.40	0.42
1:L:74:LEU:HD23	1:L:74:LEU:HA	1.85	0.42
1:L:836:ILE:HG22	1:L:837:THR:N	2.34	0.42
1:N:141:ILE:HG12	1:N:142:ILE:H	1.84	0.42
1:N:167:LEU:CB	1:N:168:PRO:HD2	2.49	0.42
1:N:232:ASN:OD1	1:N:235:PHE:N	2.53	0.42
1:N:360:HIS:HA	1:N:361:PRO:HD3	1.81	0.42
1:N:740:LEU:HD13	1:N:749:ILE:HD11	2.02	0.42
1:N:805:ALA:O	1:N:808:GLU:HB2	2.20	0.42
1:O:141:ILE:HG12	1:O:142:ILE:H	1.84	0.42
1:O:645:ARG:NH2	1:O:650:GLU:OE2	2.50	0.42
1:O:937:LEU:HG	1:O:938:ARG:N	2.34	0.42
1:P:655:MET:C	1:P:655:MET:HE2	2.39	0.42
1:A:253:TYR:O	1:A:318:ALA:N	2.52	0.42
1:A:246:MET:HB3	1:A:274:PHE:CZ	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:272:ALA:HB1	1:B:273:PRO:CD	2.49	0.42
1:B:246:MET:HB3	1:B:274:PHE:CZ	2.55	0.42
1:A:724:GLU:OE1	1:B:874:SER:HB3	2.19	0.42
1:B:939:CYS:HA	1:B:956:GLN:HB3	2.01	0.42
1:C:221:GLN:H	1:C:221:GLN:HG2	1.74	0.42
1:C:253:TYR:O	1:C:318:ALA:N	2.52	0.42
1:C:274:PHE:HB3	1:C:286:ALA:O	2.19	0.42
1:C:701:VAL:CG1	1:C:702:GLN:N	2.82	0.42
1:C:870:VAL:HG12	1:C:871:GLU:N	2.34	0.42
1:D:231:PHE:CD1	1:D:231:PHE:N	2.88	0.42
1:D:232:ASN:OD1	1:D:235:PHE:N	2.53	0.42
1:D:667:GLU:C	1:D:668:VAL:HG23	2.40	0.42
1:D:870:VAL:HG12	1:D:871:GLU:N	2.34	0.42
1:D:939:CYS:HA	1:D:956:GLN:HB3	2.01	0.42
1:E:1000:SER:HA	1:E:1001:PRO:HD3	1.76	0.42
1:E:989:PHE:CE1	1:E:1014:TYR:HB3	2.54	0.42
1:E:403:ASP:OD1	1:E:451:PRO:HD2	2.20	0.42
1:E:657:ALA:HA	1:E:661:LYS:O	2.20	0.42
1:E:66:PRO:HA	1:E:187:MET:HE3	2.01	0.42
1:E:947:GLY:HA3	1:E:948:PRO:HD2	1.79	0.42
1:F:141:ILE:C	1:F:142:ILE:HG13	2.40	0.42
1:F:141:ILE:HG12	1:F:142:ILE:H	1.84	0.42
1:F:658:LEU:O	1:F:659:ASP:C	2.58	0.42
1:F:78:LEU:HB3	1:F:79:PRO:CD	2.41	0.42
1:G:167:LEU:CB	1:G:168:PRO:HD2	2.49	0.42
1:G:654:TRP:O	1:G:655:MET:HB3	2.18	0.42
1:G:667:GLU:C	1:G:668:VAL:HG23	2.40	0.42
1:G:836:ILE:HG22	1:G:837:THR:N	2.34	0.42
1:G:939:CYS:HA	1:G:956:GLN:HB3	2.01	0.42
1:H:657:ALA:HA	1:H:661:LYS:O	2.20	0.42
1:H:3:ILE:O	1:H:6:SER:HB3	2.20	0.42
1:H:805:ALA:O	1:H:808:GLU:HB2	2.20	0.42
1:I:667:GLU:C	1:I:668:VAL:HG23	2.40	0.42
1:I:3:ILE:O	1:I:6:SER:HB3	2.20	0.42
1:J:105:TYR:CE2	1:J:199:ASP:HB2	2.55	0.42
1:J:630:ARG:HE	1:J:630:ARG:HB3	1.73	0.42
1:J:3:ILE:O	1:J:6:SER:HB3	2.20	0.42
1:K:571:VAL:HG13	1:K:607:VAL:CG2	2.44	0.42
1:K:737:ILE:HB	1:K:738:PRO:HD2	2.01	0.42
1:K:778:THR:HB	1:K:887:GLN:CB	2.49	0.42
1:L:141:ILE:HG12	1:L:142:ILE:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:805:ALA:O	1:L:808:GLU:HB2	2.20	0.42
1:L:849:LEU:HD23	1:L:849:LEU:N	2.33	0.42
1:L:778:THR:HB	1:L:887:GLN:CB	2.50	0.42
1:L:927:THR:HA	1:L:928:PRO:HD3	1.79	0.42
1:M:138:GLN:N	1:M:217:LYS:O	2.33	0.42
1:M:272:ALA:HA	1:M:273:PRO:HD3	1.74	0.42
1:M:312:VAL:HG12	1:M:313:VAL:N	2.34	0.42
1:M:507:ASP:C	1:M:519:SER:HB2	2.39	0.42
1:M:66:PRO:HD2	1:M:67:GLU:OE1	2.20	0.42
1:M:78:LEU:CB	1:M:79:PRO:CD	2.98	0.42
1:M:901:GLY:HA3	1:M:902:PRO:HA	1.68	0.42
1:N:124:SER:HA	1:N:184:LEU:O	2.20	0.42
1:N:234:ASP:OD2	1:N:236:SER:HB3	2.19	0.42
1:N:274:PHE:HB3	1:N:286:ALA:O	2.19	0.42
1:N:59:ARG:NH1	1:N:81:ALA:HB3	2.34	0.42
1:N:92:MET:HE3	1:N:362:LEU:O	2.20	0.42
1:N:937:LEU:HG	1:N:938:ARG:N	2.34	0.42
1:N:939:CYS:HA	1:N:956:GLN:HB3	2.01	0.42
1:O:167:LEU:CB	1:O:168:PRO:HD2	2.49	0.42
1:O:232:ASN:OD1	1:O:235:PHE:N	2.53	0.42
1:N:425:ARG:NH2	1:O:287:ASP:OD2	2.53	0.42
1:O:654:TRP:O	1:O:655:MET:HB3	2.18	0.42
1:O:78:LEU:HB3	1:O:79:PRO:CD	2.41	0.42
1:P:657:ALA:HA	1:P:661:LYS:O	2.20	0.42
1:A:657:ALA:HA	1:A:661:LYS:O	2.20	0.42
1:A:870:VAL:HG12	1:A:871:GLU:N	2.34	0.42
1:A:878:HIS:HA	1:A:879:PRO:HD3	1.74	0.42
1:A:939:CYS:HA	1:A:956:GLN:HB3	2.01	0.42
1:B:100:TYR:CE1	1:B:602:CYS:HB3	2.55	0.42
1:B:989:PHE:CE1	1:B:1014:TYR:HB3	2.54	0.42
1:B:805:ALA:O	1:B:808:GLU:HB2	2.20	0.42
1:C:507:ASP:C	1:C:519:SER:HB2	2.39	0.42
1:C:655:MET:HB2	1:C:655:MET:HE3	1.84	0.42
1:C:737:ILE:HB	1:C:738:PRO:HD2	2.01	0.42
1:D:256:VAL:CG1	1:D:257:THR:N	2.82	0.42
1:D:657:ALA:HA	1:D:661:LYS:O	2.20	0.42
1:D:668:VAL:HA	1:D:669:PRO:HD3	1.87	0.42
1:E:141:ILE:HG12	1:E:142:ILE:H	1.84	0.42
1:E:722:LEU:HD23	1:E:722:LEU:HA	1.76	0.42
1:E:78:LEU:CB	1:E:79:PRO:CD	2.98	0.42
1:E:59:ARG:NH1	1:E:81:ALA:HB3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:740:LEU:HD13	1:F:749:ILE:HD11	2.02	0.42
1:F:937:LEU:HG	1:F:938:ARG:N	2.34	0.42
1:G:658:LEU:O	1:G:659:ASP:C	2.58	0.42
1:G:657:ALA:HA	1:G:661:LYS:O	2.20	0.42
1:G:66:PRO:HA	1:G:187:MET:HE3	2.02	0.42
1:H:100:TYR:CE1	1:H:602:CYS:HB3	2.55	0.42
1:H:124:SER:HA	1:H:184:LEU:O	2.20	0.42
1:H:654:TRP:O	1:H:655:MET:HB3	2.18	0.42
1:H:939:CYS:HA	1:H:956:GLN:HB3	2.01	0.42
1:I:105:TYR:HA	1:I:106:PRO:HD3	1.89	0.42
1:I:347:LYS:CB	1:I:348:PRO:HD2	2.43	0.42
1:I:571:VAL:HG13	1:I:607:VAL:CG2	2.44	0.42
1:J:124:SER:HA	1:J:184:LEU:O	2.20	0.42
1:J:141:ILE:HG12	1:J:142:ILE:H	1.84	0.42
1:J:246:MET:HB3	1:J:274:PHE:CZ	2.55	0.42
1:J:217:LYS:NZ	1:J:326:GLU:OE2	2.50	0.42
1:J:658:LEU:O	1:J:659:ASP:C	2.58	0.42
1:J:66:PRO:HD2	1:J:67:GLU:OE1	2.20	0.42
1:J:737:ILE:HB	1:J:738:PRO:HD2	2.01	0.42
1:J:836:ILE:HG22	1:J:837:THR:N	2.34	0.42
1:K:234:ASP:OD2	1:K:236:SER:HB3	2.19	0.42
1:K:272:ALA:HB1	1:K:273:PRO:CD	2.49	0.42
1:K:74:LEU:HD23	1:K:74:LEU:HA	1.85	0.42
1:L:105:TYR:CE2	1:L:199:ASP:HB2	2.55	0.42
1:L:302:SER:HB2	1:L:304:GLU:H	1.83	0.42
1:L:429:ASP:HA	1:L:430:PRO:HD3	1.55	0.42
1:L:740:LEU:HD13	1:L:749:ILE:HD11	2.02	0.42
1:L:937:LEU:HG	1:L:938:ARG:N	2.34	0.42
1:M:246:MET:HB3	1:M:274:PHE:CZ	2.55	0.42
1:M:856:TYR:CD2	1:M:864:MET:HE2	2.55	0.42
1:N:246:MET:HB3	1:N:274:PHE:CZ	2.55	0.42
1:N:305:ILE:HA	1:N:306:PRO:HD3	1.81	0.42
1:O:403:ASP:OD1	1:O:451:PRO:HD2	2.20	0.42
1:O:583:ASN:HA	1:O:584:PRO:HD3	1.79	0.42
1:O:740:LEU:HD13	1:O:749:ILE:HD11	2.02	0.42
1:P:105:TYR:HA	1:P:106:PRO:HD3	1.89	0.42
1:P:124:SER:HA	1:P:184:LEU:O	2.20	0.42
1:P:214:LEU:HD23	1:P:214:LEU:HA	1.73	0.42
1:P:232:ASN:OD1	1:P:235:PHE:N	2.53	0.42
1:P:278:ILE:HG22	1:P:279:ILE:N	2.35	0.42
1:P:939:CYS:HA	1:P:956:GLN:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:100:TYR:CE1	1:A:602:CYS:HB3	2.55	0.42
1:A:3:ILE:O	1:A:6:SER:HB3	2.20	0.42
1:A:730:LEU:HA	1:A:731:PRO:HD3	1.78	0.42
1:A:937:LEU:HG	1:A:938:ARG:N	2.34	0.42
1:B:387:VAL:CG2	1:B:388:ARG:N	2.81	0.42
1:B:3:ILE:O	1:B:6:SER:HB3	2.20	0.42
1:B:645:ARG:NH2	1:B:650:GLU:OE2	2.50	0.42
1:D:253:TYR:O	1:D:318:ALA:N	2.52	0.42
1:D:274:PHE:HB3	1:D:286:ALA:O	2.19	0.42
1:F:105:TYR:CE2	1:F:199:ASP:HB2	2.55	0.42
1:F:336:ARG:CG	1:F:336:ARG:HH11	2.26	0.42
1:G:237:ARG:HE	1:G:237:ARG:HB2	1.48	0.42
1:G:257:THR:HG22	1:G:258:VAL:N	2.33	0.42
1:G:65:ALA:HB1	1:G:66:PRO:CD	2.41	0.42
1:G:856:TYR:HB3	1:G:864:MET:HE2	2.02	0.42
1:H:253:TYR:O	1:H:318:ALA:N	2.52	0.42
1:H:43:ARG:NH1	1:H:44:THR:HG23	2.34	0.42
1:I:433:LEU:O	1:I:437:SER:HB3	2.20	0.42
1:I:403:ASP:OD1	1:I:451:PRO:HD2	2.20	0.42
1:I:57:GLU:HG2	1:I:83:THR:HG21	1.97	0.42
1:I:66:PRO:HD2	1:I:67:GLU:OE1	2.20	0.42
1:I:900:LEU:HD23	1:I:900:LEU:HA	1.81	0.42
1:J:421:VAL:HA	1:J:422:PRO:C	2.40	0.42
1:J:429:ASP:OD1	1:J:431:ARG:N	2.46	0.42
1:J:740:LEU:HD13	1:J:749:ILE:HD11	2.02	0.42
1:K:100:TYR:CE1	1:K:602:CYS:HB3	2.55	0.42
1:K:141:ILE:HG12	1:K:142:ILE:H	1.84	0.42
1:K:18:ASN:HD22	1:K:21:VAL:HG23	1.80	0.42
1:K:261:TRP:HA	1:K:267:VAL:HG23	2.01	0.42
1:K:246:MET:HB3	1:K:274:PHE:CZ	2.55	0.42
1:K:274:PHE:HB3	1:K:286:ALA:O	2.19	0.42
1:K:3:ILE:O	1:K:6:SER:HB3	2.20	0.42
1:K:986:ILE:HG23	1:K:986:ILE:HD13	1.83	0.42
1:L:657:ALA:HA	1:L:661:LYS:O	2.20	0.42
1:M:231:PHE:N	1:M:231:PHE:CD1	2.88	0.42
1:M:322:LEU:HD23	1:M:323:ILE:C	2.40	0.42
1:M:914:CME:HB3	1:M:914:CME:HE2	1.90	0.42
1:N:30:HIS:CB	1:N:31:PRO:CD	2.95	0.42
1:N:66:PRO:HD2	1:N:67:GLU:OE1	2.20	0.42
1:N:745:MET:CE	1:N:745:MET:CA	2.97	0.42
1:O:231:PHE:N	1:O:231:PHE:CD1	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:237:ARG:HE	1:O:237:ARG:HB2	1.48	0.42
1:O:65:ALA:HB1	1:O:66:PRO:CD	2.41	0.42
1:O:667:GLU:C	1:O:668:VAL:HG23	2.40	0.42
1:O:849:LEU:HD23	1:O:849:LEU:N	2.33	0.42
1:P:167:LEU:CB	1:P:168:PRO:HD2	2.49	0.42
1:P:18:ASN:HD22	1:P:21:VAL:HG23	1.80	0.42
1:P:217:LYS:NZ	1:P:326:GLU:OE2	2.50	0.42
1:P:579:ASP:N	1:P:583:ASN:O	2.47	0.42
1:P:658:LEU:N	1:P:661:LYS:O	2.39	0.42
1:P:66:PRO:HD2	1:P:67:GLU:OE1	2.20	0.42
1:P:937:LEU:HG	1:P:938:ARG:N	2.34	0.42
1:A:100:TYR:O	1:A:597:ASN:HA	2.20	0.41
1:A:18:ASN:HA	1:A:19:PRO:HD2	1.77	0.41
1:A:434:PRO:HB3	1:D:434:PRO:HB3	2.00	0.41
1:A:571:VAL:HG13	1:A:607:VAL:CG2	2.44	0.41
1:A:78:LEU:CB	1:A:79:PRO:CD	2.98	0.41
1:A:805:ALA:O	1:A:808:GLU:HB2	2.20	0.41
1:A:856:TYR:HB3	1:A:864:MET:HE2	2.02	0.41
1:B:141:ILE:HG12	1:B:142:ILE:H	1.85	0.41
1:B:217:LYS:NZ	1:B:326:GLU:OE2	2.50	0.41
1:B:425:ARG:HH22	1:C:287:ASP:CG	2.24	0.41
1:B:740:LEU:HD13	1:B:749:ILE:HD11	2.02	0.41
1:C:124:SER:HA	1:C:184:LEU:O	2.20	0.41
1:C:18:ASN:HD22	1:C:21:VAL:HG23	1.80	0.41
1:C:261:TRP:HA	1:C:267:VAL:HG23	2.01	0.41
1:C:403:ASP:OD1	1:C:451:PRO:HD2	2.20	0.41
1:C:65:ALA:HB1	1:C:66:PRO:CD	2.41	0.41
1:C:667:GLU:C	1:C:668:VAL:HG23	2.40	0.41
1:C:694:LEU:O	1:C:722:LEU:N	2.51	0.41
1:C:740:LEU:HD13	1:C:749:ILE:HD11	2.02	0.41
1:D:227:VAL:HG13	1:D:240:LEU:CD1	2.39	0.41
1:D:257:THR:HG22	1:D:258:VAL:N	2.33	0.41
1:E:232:ASN:OD1	1:E:235:PHE:N	2.53	0.41
1:E:246:MET:HB3	1:E:274:PHE:CZ	2.55	0.41
1:E:701:VAL:CG1	1:E:702:GLN:N	2.82	0.41
1:E:737:ILE:HB	1:E:738:PRO:HD2	2.01	0.41
1:F:53:SER:O	1:F:54:LEU:HD23	2.18	0.41
1:F:630:ARG:HB3	1:F:630:ARG:HE	1.73	0.41
1:F:745:MET:CE	1:F:745:MET:CA	2.97	0.41
1:G:232:ASN:OD1	1:G:235:PHE:N	2.53	0.41
1:G:274:PHE:HB3	1:G:286:ALA:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:322:LEU:HD23	1:G:323:ILE:C	2.41	0.41
1:G:471:LEU:HA	1:G:471:LEU:HD23	1.84	0.41
1:G:658:LEU:N	1:G:661:LYS:O	2.39	0.41
1:G:805:ALA:O	1:G:808:GLU:HB2	2.20	0.41
1:H:856:TYR:HB3	1:H:864:MET:HE2	2.02	0.41
1:I:278:ILE:HG22	1:I:279:ILE:N	2.35	0.41
1:I:305:ILE:HA	1:I:306:PRO:HD3	1.81	0.41
1:I:322:LEU:HD23	1:I:323:ILE:C	2.41	0.41
1:I:654:TRP:O	1:I:655:MET:HB3	2.18	0.41
1:I:679:LEU:N	1:I:679:LEU:HD23	2.24	0.41
1:J:221:GLN:HE21	1:J:221:GLN:HB3	1.58	0.41
1:J:43:ARG:NH1	1:J:44:THR:HG23	2.34	0.41
1:K:278:ILE:HG22	1:K:279:ILE:N	2.35	0.41
1:L:167:LEU:CB	1:L:168:PRO:HD2	2.49	0.41
1:L:745:MET:CA	1:L:745:MET:CE	2.97	0.41
1:M:105:TYR:CE2	1:M:199:ASP:HB2	2.55	0.41
1:M:805:ALA:O	1:M:808:GLU:HB2	2.20	0.41
1:N:253:TYR:O	1:N:318:ALA:N	2.52	0.41
1:N:260:LEU:HD12	1:N:260:LEU:HA	1.70	0.41
1:N:66:PRO:HA	1:N:187:MET:HE3	2.01	0.41
1:N:878:HIS:HA	1:N:879:PRO:HD3	1.74	0.41
1:N:914:CME:HB3	1:N:914:CME:HE2	1.90	0.41
1:O:66:PRO:HA	1:O:187:MET:HE3	2.02	0.41
1:O:105:TYR:CE2	1:O:199:ASP:HB2	2.55	0.41
1:O:272:ALA:HB1	1:O:273:PRO:CD	2.49	0.41
1:O:657:ALA:HA	1:O:661:LYS:O	2.20	0.41
1:O:805:ALA:O	1:O:808:GLU:HB2	2.20	0.41
1:O:778:THR:HB	1:O:887:GLN:CB	2.49	0.41
1:P:105:TYR:CE2	1:P:199:ASP:HB2	2.55	0.41
1:P:43:ARG:NH1	1:P:44:THR:HG23	2.34	0.41
1:P:652:LEU:HB3	1:P:668:VAL:O	2.20	0.41
1:A:232:ASN:OD1	1:A:235:PHE:N	2.53	0.41
1:A:740:LEU:HD13	1:A:749:ILE:HD11	2.02	0.41
1:B:177:LEU:HA	1:B:177:LEU:HD23	1.83	0.41
1:B:232:ASN:OD1	1:B:235:PHE:N	2.53	0.41
1:B:260:LEU:HA	1:B:260:LEU:HD12	1.70	0.41
1:B:667:GLU:C	1:B:668:VAL:HG23	2.40	0.41
1:B:682:LEU:HA	1:B:682:LEU:HD23	1.70	0.41
1:C:232:ASN:OD1	1:C:235:PHE:N	2.53	0.41
1:C:254:LEU:HD23	1:C:254:LEU:HA	1.51	0.41
1:C:476:LYS:HD2	1:C:476:LYS:HA	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:657:ALA:HA	1:C:661:LYS:O	2.20	0.41
1:C:658:LEU:O	1:C:659:ASP:C	2.58	0.41
1:D:105:TYR:CE2	1:D:199:ASP:HB2	2.55	0.41
1:D:780:LEU:HA	1:D:886:CYS:HB3	2.01	0.41
1:E:231:PHE:CD1	1:E:231:PHE:N	2.88	0.41
1:E:278:ILE:HG22	1:E:279:ILE:N	2.35	0.41
1:E:322:LEU:HD23	1:E:323:ILE:C	2.41	0.41
1:E:685:LEU:HA	1:E:686:PRO:HD3	1.66	0.41
1:E:745:MET:CE	1:E:745:MET:CA	2.97	0.41
1:E:901:GLY:HA3	1:E:902:PRO:HA	1.68	0.41
1:F:36:TRP:CD2	1:F:42:ALA:HA	2.56	0.41
1:F:870:VAL:HG12	1:F:871:GLU:N	2.34	0.41
1:G:105:TYR:CE2	1:G:199:ASP:HB2	2.55	0.41
1:G:701:VAL:CG1	1:G:702:GLN:N	2.82	0.41
1:H:232:ASN:OD1	1:H:235:PHE:N	2.53	0.41
1:H:395:HIS:HA	1:H:396:PRO:HD3	1.50	0.41
1:I:261:TRP:HA	1:I:267:VAL:HG23	2.01	0.41
1:I:66:PRO:HA	1:I:187:MET:HE3	2.02	0.41
1:I:687:GLN:HA	1:I:688:PRO:HD3	1.75	0.41
1:I:701:VAL:CG1	1:I:702:GLN:N	2.82	0.41
1:I:722:LEU:HD23	1:I:722:LEU:HA	1.76	0.41
1:K:142:ILE:HG23	1:K:170:GLU:HG2	2.01	0.41
1:K:66:PRO:CB	1:K:187:MET:HE1	2.51	0.41
1:K:650:GLU:HB3	1:K:670:LEU:HD12	2.01	0.41
1:K:939:CYS:HA	1:K:956:GLN:HB3	2.01	0.41
1:L:232:ASN:OD1	1:L:235:PHE:N	2.53	0.41
1:L:274:PHE:HB3	1:L:286:ALA:O	2.19	0.41
1:M:1006:GLU:HG3	1:M:1006:GLU:H	1.00	0.41
1:M:141:ILE:C	1:M:142:ILE:HG13	2.40	0.41
1:M:278:ILE:HG22	1:M:279:ILE:N	2.35	0.41
1:M:433:LEU:O	1:M:437:SER:HB3	2.20	0.41
1:M:479:ASP:HA	1:M:480:PRO:HD2	1.55	0.41
1:M:482:ARG:HH11	1:M:482:ARG:HD2	1.67	0.41
1:M:823:LEU:HA	1:M:823:LEU:HD23	1.86	0.41
1:N:105:TYR:CE2	1:N:199:ASP:HB2	2.55	0.41
1:N:390:SER:HA	1:N:391:HIS:HA	1.92	0.41
1:N:36:TRP:CD2	1:N:42:ALA:HA	2.55	0.41
1:N:679:LEU:HD23	1:N:679:LEU:HA	1.48	0.41
1:N:701:VAL:CG1	1:N:702:GLN:N	2.82	0.41
1:O:274:PHE:HB3	1:O:286:ALA:O	2.19	0.41
1:O:322:LEU:HD23	1:O:323:ILE:C	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:395:HIS:HA	1:O:396:PRO:HD3	1.51	0.41
1:O:36:TRP:CD2	1:O:42:ALA:HA	2.55	0.41
1:O:655:MET:HB2	1:O:655:MET:HE3	1.82	0.41
1:P:322:LEU:HD23	1:P:323:ILE:C	2.41	0.41
1:P:403:ASP:OD1	1:P:451:PRO:HD2	2.20	0.41
1:P:740:LEU:HD13	1:P:749:ILE:HD12	1.98	0.41
1:A:507:ASP:C	1:A:519:SER:HB2	2.39	0.41
1:A:856:TYR:HD2	1:A:864:MET:HE2	1.85	0.41
1:A:778:THR:HB	1:A:887:GLN:CB	2.49	0.41
1:B:278:ILE:HG22	1:B:279:ILE:N	2.35	0.41
1:B:322:LEU:HD23	1:B:323:ILE:C	2.41	0.41
1:B:654:TRP:O	1:B:655:MET:HB3	2.18	0.41
1:D:142:ILE:HG23	1:D:170:GLU:HG2	2.01	0.41
1:D:287:ASP:OD1	1:D:287:ASP:N	2.30	0.41
1:E:433:LEU:O	1:E:437:SER:HB3	2.20	0.41
1:E:507:ASP:C	1:E:519:SER:HB2	2.39	0.41
1:F:127:PHE:O	1:F:182:ASN:N	2.34	0.41
1:F:272:ALA:HA	1:F:273:PRO:HD3	1.75	0.41
1:F:654:TRP:O	1:F:655:MET:HB3	2.18	0.41
1:F:657:ALA:HA	1:F:661:LYS:O	2.20	0.41
1:F:66:PRO:HA	1:F:187:MET:HE3	2.01	0.41
1:G:246:MET:HB3	1:G:274:PHE:CZ	2.55	0.41
1:G:278:ILE:HG22	1:G:279:ILE:N	2.35	0.41
1:G:403:ASP:OD1	1:G:451:PRO:HD2	2.20	0.41
1:H:246:MET:HB3	1:H:274:PHE:CZ	2.55	0.41
1:H:403:ASP:OD1	1:H:451:PRO:HD2	2.20	0.41
1:H:66:PRO:HD2	1:H:67:GLU:OE1	2.20	0.41
1:I:363:HIS:N	1:I:363:HIS:CD2	2.84	0.41
1:I:100:TYR:CE1	1:I:602:CYS:HB3	2.55	0.41
1:J:221:GLN:HG2	1:J:221:GLN:H	1.74	0.41
1:K:105:TYR:HA	1:K:106:PRO:HD3	1.89	0.41
1:K:254:LEU:HA	1:K:254:LEU:HD23	1.51	0.41
1:K:658:LEU:O	1:K:659:ASP:C	2.58	0.41
1:K:652:LEU:HB3	1:K:668:VAL:O	2.20	0.41
1:K:856:TYR:CD2	1:K:864:MET:HE1	2.55	0.41
1:K:856:TYR:HD2	1:K:864:MET:HE2	1.85	0.41
1:L:246:MET:HB3	1:L:274:PHE:CZ	2.55	0.41
1:L:304:GLU:OE1	1:L:644:PHE:N	2.43	0.41
1:L:471:LEU:HA	1:L:471:LEU:HD23	1.84	0.41
1:L:706:THR:OG1	1:L:709:SER:N	2.54	0.41
1:L:823:LEU:HA	1:L:823:LEU:HD23	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:232:ASN:OD1	1:M:235:PHE:N	2.53	0.41
1:M:3:ILE:O	1:M:6:SER:HB3	2.20	0.41
1:N:272:ALA:HB1	1:N:273:PRO:CD	2.49	0.41
1:N:362:LEU:HA	1:N:362:LEU:HD23	1.70	0.41
1:N:631:LEU:HD12	1:N:635:THR:O	2.21	0.41
1:N:7:LEU:O	1:N:8:ALA:C	2.59	0.41
1:N:870:VAL:HG12	1:N:871:GLU:N	2.34	0.41
1:P:667:GLU:C	1:P:668:VAL:HG23	2.40	0.41
1:P:694:LEU:HA	1:P:694:LEU:HD12	1.73	0.41
1:P:701:VAL:CG1	1:P:702:GLN:N	2.82	0.41
1:A:66:PRO:CB	1:A:187:MET:HE1	2.51	0.41
1:A:476:LYS:HD2	1:A:476:LYS:HA	1.81	0.41
1:A:583:ASN:HA	1:A:584:PRO:HD3	1.79	0.41
1:A:658:LEU:O	1:A:659:ASP:C	2.58	0.41
1:A:745:MET:CA	1:A:745:MET:CE	2.97	0.41
1:B:706:THR:OG1	1:B:709:SER:N	2.54	0.41
1:C:1006:GLU:HG3	1:C:1006:GLU:H	1.00	0.41
1:C:100:TYR:CE1	1:C:602:CYS:HB3	2.55	0.41
1:C:34:ALA:HB3	1:C:36:TRP:CE3	2.56	0.41
1:C:433:LEU:N	1:C:434:PRO:HD2	2.36	0.41
1:C:66:PRO:HD2	1:C:67:GLU:OE1	2.20	0.41
1:C:670:LEU:HD23	1:C:670:LEU:HA	1.66	0.41
1:D:124:SER:HA	1:D:184:LEU:O	2.20	0.41
1:D:66:PRO:CB	1:D:187:MET:HE1	2.51	0.41
1:D:34:ALA:HB3	1:D:36:TRP:CE3	2.56	0.41
1:D:433:LEU:O	1:D:437:SER:HB3	2.20	0.41
1:E:66:PRO:CB	1:E:187:MET:HE1	2.51	0.41
1:E:655:MET:HE2	1:E:656:VAL:H	1.81	0.41
1:F:246:MET:HB3	1:F:274:PHE:CZ	2.55	0.41
1:F:362:LEU:HD23	1:F:362:LEU:HA	1.70	0.41
1:F:805:ALA:O	1:F:808:GLU:HB2	2.20	0.41
1:G:46:ARG:CG	1:G:46:ARG:HH11	2.29	0.41
1:G:579:ASP:N	1:G:583:ASN:O	2.47	0.41
1:G:65:ALA:CB	1:G:66:PRO:HD2	2.33	0.41
1:H:682:LEU:HD23	1:H:682:LEU:HA	1.70	0.41
1:I:246:MET:HB3	1:I:274:PHE:CZ	2.55	0.41
1:I:421:VAL:HA	1:I:422:PRO:C	2.40	0.41
1:I:657:ALA:HA	1:I:661:LYS:O	2.20	0.41
1:J:261:TRP:HA	1:J:267:VAL:HG23	2.01	0.41
1:J:34:ALA:HB3	1:J:36:TRP:CE3	2.56	0.41
1:J:436:MET:HE1	1:J:467:ASN:ND2	2.30	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:655:MET:HE3	1:J:655:MET:HB2	1.89	0.41
1:J:667:GLU:C	1:J:668:VAL:HG23	2.40	0.41
1:J:706:THR:OG1	1:J:709:SER:N	2.54	0.41
1:J:726:LEU:HD23	1:J:726:LEU:HA	1.85	0.41
1:J:937:LEU:HG	1:J:938:ARG:N	2.34	0.41
1:K:105:TYR:CE2	1:K:199:ASP:HB2	2.55	0.41
1:K:232:ASN:OD1	1:K:235:PHE:N	2.53	0.41
1:K:66:PRO:HD2	1:K:67:GLU:OE1	2.20	0.41
1:L:421:VAL:HA	1:L:422:PRO:C	2.40	0.41
1:L:433:LEU:O	1:L:437:SER:HB3	2.21	0.41
1:L:66:PRO:HD2	1:L:67:GLU:OE1	2.20	0.41
1:L:870:VAL:HG12	1:L:871:GLU:N	2.34	0.41
1:M:403:ASP:OD1	1:M:451:PRO:HD2	2.20	0.41
1:M:652:LEU:HB3	1:M:668:VAL:O	2.20	0.41
1:M:730:LEU:HA	1:M:731:PRO:HD3	1.78	0.41
1:M:745:MET:CA	1:M:745:MET:CE	2.97	0.41
1:N:100:TYR:O	1:N:597:ASN:HA	2.20	0.41
1:N:421:VAL:HA	1:N:422:PRO:C	2.40	0.41
1:N:657:ALA:HA	1:N:661:LYS:O	2.20	0.41
1:N:652:LEU:HB3	1:N:668:VAL:O	2.20	0.41
1:N:730:LEU:HA	1:N:731:PRO:HD3	1.78	0.41
1:O:670:LEU:HA	1:O:670:LEU:HD23	1.66	0.41
1:O:73:TRP:O	1:O:183:ARG:NH1	2.51	0.41
1:P:114:VAL:HG13	1:P:191:TRP:CB	2.48	0.41
1:P:127:PHE:O	1:P:182:ASN:N	2.34	0.41
1:P:362:LEU:HA	1:P:362:LEU:HD23	1.70	0.41
1:P:3:ILE:O	1:P:6:SER:HB3	2.20	0.41
1:A:403:ASP:OD1	1:A:451:PRO:HD2	2.20	0.41
1:A:631:LEU:HD12	1:A:635:THR:O	2.21	0.41
1:A:658:LEU:N	1:A:661:LYS:O	2.39	0.41
1:A:856:TYR:CD2	1:A:864:MET:HE1	2.55	0.41
1:B:142:ILE:HG23	1:B:170:GLU:HG2	2.01	0.41
1:B:433:LEU:O	1:B:437:SER:HB3	2.20	0.41
1:B:778:THR:HB	1:B:887:GLN:CB	2.49	0.41
1:C:141:ILE:HG12	1:C:142:ILE:H	1.85	0.41
1:C:246:MET:HB3	1:C:274:PHE:CZ	2.55	0.41
1:C:3:ILE:O	1:C:6:SER:HB3	2.20	0.41
1:D:631:LEU:HD12	1:D:635:THR:O	2.21	0.41
1:E:105:TYR:CE2	1:E:199:ASP:HB2	2.55	0.41
1:E:127:PHE:O	1:E:182:ASN:N	2.34	0.41
1:E:18:ASN:HD22	1:E:21:VAL:HG23	1.80	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:36:TRP:CD2	1:E:42:ALA:HA	2.56	0.41
1:E:433:LEU:N	1:E:434:PRO:HD2	2.36	0.41
1:E:667:GLU:C	1:E:668:VAL:HG23	2.40	0.41
1:F:232:ASN:OD1	1:F:235:PHE:N	2.53	0.41
1:F:679:LEU:HD23	1:F:679:LEU:HA	1.49	0.41
1:F:694:LEU:O	1:F:722:LEU:N	2.51	0.41
1:F:69:VAL:HA	1:F:70:PRO:HD3	1.87	0.41
1:G:231:PHE:CD1	1:G:231:PHE:N	2.88	0.41
1:G:256:VAL:CG1	1:G:257:THR:N	2.82	0.41
1:G:421:VAL:HA	1:G:422:PRO:C	2.40	0.41
1:G:3:ILE:O	1:G:6:SER:HB3	2.20	0.41
1:G:900:LEU:HD23	1:G:900:LEU:HA	1.81	0.41
1:H:127:PHE:O	1:H:182:ASN:N	2.34	0.41
1:H:39:SER:OG	1:H:40:GLU:N	2.54	0.41
1:I:105:TYR:CE2	1:I:199:ASP:HB2	2.55	0.41
1:I:142:ILE:HG23	1:I:170:GLU:HG2	2.01	0.41
1:I:231:PHE:CD1	1:I:231:PHE:N	2.88	0.41
1:I:433:LEU:N	1:I:434:PRO:HD2	2.36	0.41
1:J:395:HIS:HA	1:J:396:PRO:HD3	1.51	0.41
1:J:403:ASP:OD1	1:J:451:PRO:HD2	2.20	0.41
1:J:746:ASP:HB2	1:J:758:PHE:O	2.21	0.41
1:K:30:HIS:CB	1:K:31:PRO:CD	2.95	0.41
1:K:745:MET:CA	1:K:745:MET:CE	2.97	0.41
1:L:256:VAL:CG1	1:L:257:THR:N	2.82	0.41
1:L:403:ASP:OD1	1:L:451:PRO:HD2	2.20	0.41
1:L:100:TYR:CE1	1:L:602:CYS:HB3	2.55	0.41
1:M:36:TRP:CD2	1:M:42:ALA:HA	2.56	0.41
1:M:685:LEU:HA	1:M:686:PRO:HD3	1.66	0.41
1:N:39:SER:OG	1:N:40:GLU:N	2.54	0.41
1:N:433:LEU:N	1:N:434:PRO:HD2	2.36	0.41
1:N:3:ILE:O	1:N:6:SER:HB3	2.20	0.41
1:O:246:MET:HB3	1:O:274:PHE:CZ	2.55	0.41
1:O:900:LEU:HA	1:O:900:LEU:HD23	1.81	0.41
1:P:274:PHE:HB3	1:P:286:ALA:O	2.19	0.41
1:P:287:ASP:N	1:P:287:ASP:OD1	2.30	0.41
1:P:57:GLU:HG2	1:P:83:THR:HG21	1.97	0.41
1:P:740:LEU:HD13	1:P:749:ILE:HD11	2.02	0.41
1:A:105:TYR:CE2	1:A:199:ASP:HB2	2.55	0.41
1:A:34:ALA:HB3	1:A:36:TRP:CE3	2.56	0.41
1:A:668:VAL:CG1	1:A:669:PRO:CD	2.99	0.41
1:A:667:GLU:C	1:A:668:VAL:HG23	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:74:LEU:HA	1:A:74:LEU:HD23	1.85	0.41
1:A:949:HIS:CD2	1:A:1020:TRP:NE1	2.78	0.41
1:B:43:ARG:NH1	1:B:44:THR:HG23	2.34	0.41
1:B:901:GLY:HA3	1:B:902:PRO:HA	1.68	0.41
1:C:177:LEU:HA	1:C:177:LEU:HD23	1.84	0.41
1:C:631:LEU:HD12	1:C:635:THR:O	2.21	0.41
1:C:939:CYS:HA	1:C:956:GLN:HB3	2.01	0.41
1:D:100:TYR:CE1	1:D:602:CYS:HB3	2.55	0.41
1:D:706:THR:OG1	1:D:709:SER:N	2.54	0.41
1:D:778:THR:HA	1:D:779:PRO:HD3	1.96	0.41
1:D:878:HIS:HA	1:D:879:PRO:HD3	1.74	0.41
1:E:631:LEU:HD12	1:E:635:THR:O	2.21	0.41
1:E:706:THR:OG1	1:E:709:SER:N	2.54	0.41
1:E:856:TYR:HB3	1:E:864:MET:HE2	2.02	0.41
1:E:896:ASN:HA	1:E:918:TRP:O	2.21	0.41
1:F:433:LEU:N	1:F:434:PRO:HD2	2.36	0.41
1:F:3:ILE:O	1:F:6:SER:HB3	2.20	0.41
1:F:7:LEU:O	1:F:8:ALA:C	2.59	0.41
1:G:43:ARG:CG	1:G:43:ARG:HH11	2.13	0.41
1:G:805:ALA:O	1:G:809:ARG:HG3	2.21	0.41
1:H:421:VAL:HA	1:H:422:PRO:C	2.40	0.41
1:H:667:GLU:C	1:H:668:VAL:HG23	2.40	0.41
1:H:745:MET:CA	1:H:745:MET:CE	2.97	0.41
1:I:260:LEU:HA	1:I:260:LEU:HD12	1.70	0.41
1:I:360:HIS:HA	1:I:361:PRO:HD3	1.81	0.41
1:I:746:ASP:HB2	1:I:758:PHE:O	2.21	0.41
1:I:896:ASN:HA	1:I:918:TRP:O	2.21	0.41
1:K:322:LEU:HD23	1:K:323:ILE:C	2.41	0.41
1:K:403:ASP:OD1	1:K:451:PRO:HD2	2.20	0.41
1:L:231:PHE:CD1	1:L:231:PHE:N	2.88	0.41
1:L:30:HIS:CB	1:L:31:PRO:CD	2.95	0.41
1:L:86:VAL:HG13	1:L:87:PRO:HA	2.03	0.41
1:M:142:ILE:HG23	1:M:170:GLU:HG2	2.01	0.41
1:M:421:VAL:HA	1:M:422:PRO:C	2.40	0.41
1:M:476:LYS:HA	1:M:476:LYS:HD2	1.81	0.41
1:M:805:ALA:O	1:M:809:ARG:HG3	2.21	0.41
1:N:336:ARG:HH11	1:N:336:ARG:CG	2.26	0.41
1:O:142:ILE:HG23	1:O:170:GLU:HG2	2.01	0.41
1:O:339:ASN:O	1:P:527:PRO:HB3	2.21	0.41
1:O:805:ALA:O	1:O:809:ARG:HG3	2.21	0.41
1:P:856:TYR:HB3	1:P:864:MET:HE2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:652:LEU:HB3	1:A:668:VAL:O	2.21	0.41
1:A:789:LEU:O	1:A:790:ASP:C	2.59	0.41
1:A:823:LEU:HD23	1:A:823:LEU:HA	1.86	0.41
1:B:105:TYR:CE2	1:B:199:ASP:HB2	2.55	0.41
1:B:141:ILE:C	1:B:142:ILE:HG13	2.40	0.41
1:B:18:ASN:N	1:B:193:ASP:OD2	2.54	0.41
1:C:36:TRP:CD2	1:C:42:ALA:HA	2.56	0.41
1:D:167:LEU:CB	1:D:168:PRO:HD2	2.49	0.41
1:D:18:ASN:HD22	1:D:21:VAL:HG23	1.80	0.41
1:D:246:MET:HB3	1:D:274:PHE:CZ	2.55	0.41
1:A:419:GLY:O	1:D:282:ARG:NH1	2.53	0.41
1:D:433:LEU:N	1:D:434:PRO:HD2	2.36	0.41
1:D:805:ALA:O	1:D:808:GLU:HB2	2.20	0.41
1:E:429:ASP:HA	1:E:430:PRO:HD3	1.55	0.41
1:E:436:MET:HE1	1:E:467:ASN:ND2	2.33	0.41
1:F:231:PHE:N	1:F:231:PHE:CD1	2.88	0.41
1:F:360:HIS:ND1	1:F:362:LEU:HB2	2.33	0.41
1:F:667:GLU:C	1:F:668:VAL:HG23	2.40	0.41
1:G:100:TYR:CE1	1:G:602:CYS:HB3	2.55	0.41
1:G:668:VAL:CG1	1:G:669:PRO:CD	2.99	0.41
1:G:901:GLY:HA3	1:G:902:PRO:HA	1.68	0.41
1:H:291:LEU:N	1:H:291:LEU:CD1	2.83	0.41
1:H:322:LEU:HD23	1:H:323:ILE:C	2.41	0.41
1:H:823:LEU:HD23	1:H:823:LEU:HA	1.86	0.41
1:I:177:LEU:HD23	1:I:177:LEU:HA	1.83	0.41
1:J:100:TYR:CE1	1:J:602:CYS:HB3	2.55	0.41
1:J:232:ASN:OD1	1:J:235:PHE:N	2.53	0.41
1:J:272:ALA:HB1	1:J:273:PRO:CD	2.49	0.41
1:J:322:LEU:HD23	1:J:323:ILE:C	2.41	0.41
1:K:631:LEU:HD12	1:K:635:THR:O	2.21	0.41
1:K:746:ASP:HB2	1:K:758:PHE:O	2.21	0.41
1:K:86:VAL:HG13	1:K:87:PRO:HA	2.03	0.41
1:L:141:ILE:C	1:L:142:ILE:HG13	2.40	0.41
1:L:18:ASN:N	1:L:193:ASP:OD2	2.54	0.41
1:M:114:VAL:HG13	1:M:191:TRP:CB	2.48	0.41
1:M:482:ARG:HA	1:M:483:PRO:HD3	1.89	0.41
1:M:657:ALA:HA	1:M:661:LYS:O	2.20	0.41
1:M:667:GLU:C	1:M:668:VAL:HG23	2.40	0.41
1:M:706:THR:OG1	1:M:709:SER:N	2.54	0.41
1:M:856:TYR:HB3	1:M:864:MET:HE2	2.02	0.41
1:N:694:LEU:O	1:N:722:LEU:N	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:896:ASN:HA	1:N:918:TRP:O	2.21	0.41
1:O:43:ARG:HH11	1:O:43:ARG:CG	2.13	0.41
1:O:559:TYR:HA	1:O:560:PRO:HD2	1.80	0.41
1:O:57:GLU:HG2	1:O:83:THR:HG21	1.97	0.41
1:O:100:TYR:CE1	1:O:602:CYS:HB3	2.55	0.41
1:P:18:ASN:N	1:P:193:ASP:OD2	2.54	0.41
1:P:638:VAL:HG12	1:P:639:THR:N	2.36	0.41
1:P:914:CME:HE2	1:P:914:CME:HB3	1.90	0.41
1:A:1006:GLU:HG3	1:A:1006:GLU:H	1.00	0.41
1:A:655:MET:HE2	1:A:655:MET:C	2.41	0.41
1:A:746:ASP:HB2	1:A:758:PHE:O	2.21	0.41
1:B:231:PHE:CD1	1:B:231:PHE:N	2.88	0.41
1:B:377:LEU:HD22	1:B:377:LEU:HA	1.69	0.41
1:B:433:LEU:N	1:B:434:PRO:HD2	2.36	0.41
1:B:835:LEU:C	1:B:836:ILE:HD13	2.41	0.41
1:C:105:TYR:CE2	1:C:199:ASP:HB2	2.55	0.41
1:C:66:PRO:CB	1:C:187:MET:HE1	2.51	0.41
1:C:706:THR:OG1	1:C:709:SER:N	2.54	0.41
1:C:835:LEU:C	1:C:836:ILE:HD13	2.41	0.41
1:C:856:TYR:HB3	1:C:864:MET:HE2	2.02	0.41
1:C:7:LEU:O	1:C:8:ALA:C	2.59	0.41
1:C:896:ASN:HA	1:C:918:TRP:O	2.21	0.41
1:C:920:LEU:CB	1:C:921:PRO:CD	2.95	0.41
1:D:66:PRO:HD2	1:D:67:GLU:OE1	2.20	0.41
1:D:805:ALA:O	1:D:809:ARG:HG3	2.21	0.41
1:D:86:VAL:HG13	1:D:87:PRO:HA	2.03	0.41
1:D:7:LEU:O	1:D:8:ALA:C	2.59	0.41
1:E:746:ASP:HB2	1:E:758:PHE:O	2.21	0.41
1:E:939:CYS:HA	1:E:956:GLN:HB3	2.01	0.41
1:F:986:ILE:HG23	1:F:986:ILE:HD13	1.83	0.41
1:G:142:ILE:HG23	1:G:170:GLU:HG2	2.01	0.41
1:G:363:HIS:N	1:G:363:HIS:CD2	2.84	0.41
1:G:433:LEU:O	1:G:437:SER:HB3	2.20	0.41
1:G:789:LEU:O	1:G:790:ASP:C	2.59	0.41
1:H:433:LEU:O	1:H:437:SER:HB3	2.20	0.41
1:H:740:LEU:HD13	1:H:749:ILE:HD11	2.02	0.41
1:H:896:ASN:HA	1:H:918:TRP:O	2.21	0.41
1:I:124:SER:HA	1:I:184:LEU:O	2.20	0.41
1:I:141:ILE:HG12	1:I:142:ILE:H	1.84	0.41
1:I:631:LEU:HD12	1:I:635:THR:O	2.21	0.41
1:J:100:TYR:O	1:J:597:ASN:HA	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:141:ILE:C	1:J:142:ILE:HG13	2.40	0.41
1:J:805:ALA:O	1:J:808:GLU:HB2	2.20	0.41
1:J:805:ALA:O	1:J:809:ARG:HG3	2.21	0.41
1:K:347:LYS:CB	1:K:348:PRO:HD2	2.43	0.41
1:K:36:TRP:CD2	1:K:42:ALA:HA	2.56	0.41
1:K:433:LEU:O	1:K:437:SER:HB3	2.20	0.41
1:K:701:VAL:CG1	1:K:702:GLN:N	2.82	0.41
1:K:740:LEU:HD13	1:K:749:ILE:HD11	2.02	0.41
1:K:835:LEU:C	1:K:836:ILE:HD13	2.41	0.41
1:L:322:LEU:HD23	1:L:323:ILE:C	2.41	0.41
1:L:347:LYS:HA	1:L:348:PRO:HD3	1.77	0.41
1:L:631:LEU:HD12	1:L:635:THR:O	2.21	0.41
1:L:722:LEU:HA	1:L:722:LEU:HD23	1.75	0.41
1:L:746:ASP:HB2	1:L:758:PHE:O	2.21	0.41
1:M:100:TYR:CE1	1:M:602:CYS:HB3	2.55	0.41
1:M:39:SER:OG	1:M:40:GLU:N	2.54	0.41
1:M:746:ASP:HB2	1:M:758:PHE:O	2.21	0.41
1:O:421:VAL:HA	1:O:422:PRO:C	2.40	0.41
1:O:706:THR:OG1	1:O:709:SER:N	2.54	0.41
1:O:914:CME:HE2	1:O:914:CME:HB3	1.90	0.41
1:P:246:MET:HB3	1:P:274:PHE:CZ	2.55	0.41
1:P:433:LEU:O	1:P:437:SER:HB3	2.20	0.41
1:P:607:VAL:HG12	1:P:613:PRO:HA	2.02	0.41
1:P:630:ARG:HB3	1:P:630:ARG:HE	1.73	0.41
1:P:65:ALA:HB1	1:P:66:PRO:CD	2.41	0.41
1:P:746:ASP:HB2	1:P:758:PHE:O	2.21	0.41
1:A:166:ARG:O	1:A:210:ARG:NH2	2.54	0.41
1:A:322:LEU:HD23	1:A:323:ILE:C	2.41	0.41
1:A:433:LEU:O	1:A:437:SER:HB3	2.20	0.41
1:A:607:VAL:HG12	1:A:613:PRO:HA	2.03	0.41
1:C:322:LEU:HD23	1:C:323:ILE:C	2.41	0.41
1:C:607:VAL:HG12	1:C:613:PRO:HA	2.03	0.41
1:D:322:LEU:HD23	1:D:323:ILE:C	2.41	0.41
1:D:835:LEU:C	1:D:836:ILE:HD13	2.41	0.41
1:D:896:ASN:HA	1:D:918:TRP:O	2.21	0.41
1:E:111:PRO:HA	1:E:112:PRO:HA	1.74	0.41
1:E:142:ILE:HG23	1:E:170:GLU:HG2	2.01	0.41
1:E:255:ARG:NH1	1:E:255:ARG:HG2	2.35	0.41
1:E:308:LEU:HA	1:E:308:LEU:HD23	1.73	0.41
1:E:34:ALA:HB3	1:E:36:TRP:CE3	2.56	0.41
1:E:360:HIS:ND1	1:E:362:LEU:HB2	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:39:SER:OG	1:E:40:GLU:N	2.54	0.41
1:E:421:VAL:HA	1:E:422:PRO:C	2.40	0.41
1:E:856:TYR:CD2	1:E:864:MET:HE2	2.56	0.41
1:F:278:ILE:HG22	1:F:279:ILE:N	2.35	0.41
1:F:706:THR:OG1	1:F:709:SER:N	2.54	0.41
1:G:36:TRP:CD2	1:G:42:ALA:HA	2.56	0.41
1:G:706:THR:OG1	1:G:709:SER:N	2.54	0.41
1:G:746:ASP:HB2	1:G:758:PHE:O	2.21	0.41
1:G:914:CME:HE2	1:G:914:CME:HB3	1.91	0.41
1:H:166:ARG:O	1:H:210:ARG:NH2	2.54	0.41
1:H:66:PRO:CB	1:H:187:MET:HE1	2.51	0.41
1:H:607:VAL:HG12	1:H:613:PRO:HA	2.02	0.41
1:H:631:LEU:HD12	1:H:635:THR:O	2.21	0.41
1:H:901:GLY:HA3	1:H:902:PRO:HA	1.68	0.41
1:I:221:GLN:H	1:I:221:GLN:HG2	1.74	0.41
1:I:62:TRP:C	1:I:63:PHE:CD1	2.95	0.41
1:J:166:ARG:O	1:J:210:ARG:NH2	2.54	0.41
1:J:36:TRP:CD2	1:J:42:ALA:HA	2.55	0.41
1:J:607:VAL:HG12	1:J:613:PRO:HA	2.03	0.41
1:K:706:THR:OG1	1:K:709:SER:N	2.54	0.41
1:L:166:ARG:O	1:L:210:ARG:NH2	2.54	0.41
1:L:36:TRP:CD2	1:L:42:ALA:HA	2.55	0.41
1:L:607:VAL:HG12	1:L:613:PRO:HA	2.02	0.41
1:M:221:GLN:H	1:M:221:GLN:HG2	1.74	0.41
1:M:255:ARG:NH1	1:M:255:ARG:HG2	2.35	0.41
1:N:177:LEU:HD23	1:N:177:LEU:HA	1.83	0.41
1:N:278:ILE:HG22	1:N:279:ILE:N	2.35	0.41
1:N:360:HIS:ND1	1:N:362:LEU:HB2	2.33	0.41
1:N:702:GLN:HA	1:N:703:PRO:HD2	1.78	0.41
1:N:86:VAL:HG13	1:N:87:PRO:HA	2.03	0.41
1:N:986:ILE:HD13	1:N:986:ILE:HG23	1.83	0.41
1:O:304:GLU:OE1	1:O:644:PHE:N	2.43	0.41
1:O:363:HIS:N	1:O:363:HIS:CD2	2.84	0.41
1:O:579:ASP:N	1:O:583:ASN:O	2.47	0.41
1:O:746:ASP:HB2	1:O:758:PHE:O	2.21	0.41
1:P:53:SER:O	1:P:54:LEU:HD23	2.18	0.41
1:P:896:ASN:HA	1:P:918:TRP:O	2.21	0.41
1:A:18:ASN:N	1:A:193:ASP:OD2	2.54	0.41
1:A:231:PHE:N	1:A:231:PHE:CD1	2.88	0.41
1:A:308:LEU:HA	1:A:308:LEU:HD23	1.73	0.41
1:A:347:LYS:HA	1:A:348:PRO:HD3	1.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:36:TRP:CD2	1:B:42:ALA:HA	2.56	0.41
1:B:34:ALA:HB3	1:B:36:TRP:CE3	2.56	0.41
1:B:46:ARG:CG	1:B:46:ARG:HH11	2.29	0.41
1:B:835:LEU:HD12	1:B:835:LEU:HA	1.91	0.41
1:C:231:PHE:N	1:C:231:PHE:CD1	2.88	0.41
1:D:278:ILE:HG22	1:D:279:ILE:N	2.35	0.41
1:E:830:LEU:CD1	1:E:830:LEU:N	2.84	0.41
1:E:835:LEU:C	1:E:836:ILE:HD13	2.42	0.41
1:F:403:ASP:OD1	1:F:451:PRO:HD2	2.20	0.41
1:F:805:ALA:O	1:F:809:ARG:HG3	2.21	0.41
1:F:830:LEU:CD1	1:F:830:LEU:N	2.84	0.41
1:G:272:ALA:HB1	1:G:273:PRO:CD	2.49	0.41
1:G:778:THR:HA	1:G:779:PRO:HD3	1.96	0.41
1:H:105:TYR:CE2	1:H:199:ASP:HB2	2.55	0.41
1:H:661:LYS:HA	1:H:662:PRO:HD3	1.72	0.41
1:H:805:ALA:O	1:H:809:ARG:HG3	2.21	0.41
1:I:272:ALA:HB1	1:I:273:PRO:CD	2.49	0.41
1:J:645:ARG:NH2	1:J:650:GLU:OE2	2.50	0.41
1:J:86:VAL:HG13	1:J:87:PRO:HA	2.03	0.41
1:K:253:TYR:O	1:K:318:ALA:N	2.52	0.41
1:K:657:ALA:HA	1:K:661:LYS:O	2.20	0.41
1:K:802:ASP:HA	1:K:803:PRO:HD3	1.88	0.41
1:K:896:ASN:HA	1:K:918:TRP:O	2.21	0.41
1:L:114:VAL:HG13	1:L:191:TRP:CB	2.48	0.41
1:L:291:LEU:CD1	1:L:291:LEU:N	2.83	0.41
1:L:433:LEU:N	1:L:434:PRO:HD2	2.36	0.41
1:L:805:ALA:O	1:L:809:ARG:HG3	2.21	0.41
1:L:896:ASN:HA	1:L:918:TRP:O	2.21	0.41
1:M:668:VAL:CG1	1:M:669:PRO:CD	2.99	0.41
1:N:66:PRO:CB	1:N:187:MET:HE1	2.50	0.41
1:N:667:GLU:C	1:N:668:VAL:HG23	2.40	0.41
1:N:830:LEU:CD1	1:N:830:LEU:N	2.84	0.41
1:O:1020:TRP:C	1:O:1020:TRP:CD1	2.94	0.41
1:O:66:PRO:CB	1:O:187:MET:HE1	2.51	0.41
1:O:433:LEU:N	1:O:434:PRO:HD2	2.36	0.41
1:O:62:TRP:C	1:O:63:PHE:CD1	2.94	0.41
1:O:631:LEU:HD12	1:O:635:THR:O	2.21	0.41
1:O:652:LEU:HB3	1:O:668:VAL:O	2.21	0.41
1:O:830:LEU:N	1:O:830:LEU:CD1	2.84	0.41
1:P:166:ARG:O	1:P:210:ARG:NH2	2.54	0.41
1:P:231:PHE:N	1:P:231:PHE:CD1	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:805:ALA:O	1:P:808:GLU:HB2	2.20	0.41
1:A:896:ASN:HA	1:A:918:TRP:O	2.21	0.41
1:B:403:ASP:OD1	1:B:451:PRO:HD2	2.20	0.41
1:B:638:VAL:HG12	1:B:639:THR:N	2.36	0.41
1:B:749:ILE:O	1:B:755:ARG:HA	2.22	0.41
1:C:685:LEU:HA	1:C:686:PRO:HD3	1.66	0.41
1:C:805:ALA:O	1:C:808:GLU:HB2	2.20	0.41
1:C:917:ARG:HD2	1:C:917:ARG:HH11	1.73	0.41
1:D:36:TRP:CD2	1:D:42:ALA:HA	2.56	0.41
1:D:655:MET:HE2	1:D:655:MET:C	2.41	0.41
1:D:830:LEU:N	1:D:830:LEU:CD1	2.84	0.41
1:E:1020:TRP:CD1	1:E:1020:TRP:C	2.94	0.41
1:E:237:ARG:HE	1:E:237:ARG:HB2	1.48	0.41
1:E:638:VAL:HG12	1:E:639:THR:N	2.36	0.41
1:E:652:LEU:HB3	1:E:668:VAL:O	2.21	0.41
1:F:62:TRP:C	1:F:63:PHE:CD1	2.95	0.41
1:F:914:CME:HB3	1:F:914:CME:HE2	1.90	0.41
1:G:34:ALA:HB3	1:G:36:TRP:CE3	2.56	0.41
1:G:433:LEU:N	1:G:434:PRO:HD2	2.36	0.41
1:G:652:LEU:HB3	1:G:668:VAL:O	2.20	0.41
1:H:231:PHE:CD1	1:H:231:PHE:N	2.88	0.41
1:H:34:ALA:HB3	1:H:36:TRP:CE3	2.56	0.41
1:H:706:THR:OG1	1:H:709:SER:N	2.54	0.41
1:H:726:LEU:HA	1:H:726:LEU:HD23	1.85	0.41
1:I:141:ILE:C	1:I:142:ILE:HG13	2.40	0.41
1:I:304:GLU:OE1	1:I:644:PHE:N	2.43	0.41
1:I:390:SER:HA	1:I:391:HIS:HA	1.91	0.41
1:J:167:LEU:CB	1:J:168:PRO:HD2	2.49	0.41
1:J:66:PRO:CB	1:J:187:MET:HE1	2.51	0.41
1:J:231:PHE:N	1:J:231:PHE:CD1	2.88	0.41
1:J:256:VAL:CG1	1:J:257:THR:N	2.82	0.41
1:J:291:LEU:N	1:J:291:LEU:CD1	2.83	0.41
1:J:409:VAL:HG12	1:J:410:VAL:N	2.36	0.41
1:J:62:TRP:C	1:J:63:PHE:CD1	2.95	0.41
1:J:78:LEU:CB	1:J:79:PRO:CD	2.98	0.41
1:J:835:LEU:C	1:J:836:ILE:HD13	2.41	0.41
1:K:166:ARG:O	1:K:210:ARG:NH2	2.54	0.41
1:K:36:TRP:CD1	1:K:41:GLU:HB3	2.56	0.41
1:K:420:MET:HE3	1:K:420:MET:CA	2.49	0.41
1:K:62:TRP:C	1:K:63:PHE:CD1	2.95	0.41
1:K:702:GLN:HA	1:K:703:PRO:HD2	1.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:789:LEU:O	1:K:790:ASP:C	2.59	0.41
1:L:1020:TRP:CD1	1:L:1020:TRP:C	2.94	0.41
1:L:34:ALA:HB3	1:L:36:TRP:CE3	2.56	0.41
1:L:69:VAL:HA	1:L:70:PRO:HD3	1.87	0.41
1:M:849:LEU:N	1:M:849:LEU:HD23	2.33	0.41
1:N:422:PRO:HA	1:O:282:ARG:HB2	2.03	0.41
1:O:278:ILE:HG22	1:O:279:ILE:N	2.35	0.41
1:O:305:ILE:HA	1:O:306:PRO:HD3	1.81	0.41
1:O:390:SER:HA	1:O:391:HIS:HA	1.92	0.41
1:O:607:VAL:HG12	1:O:613:PRO:HA	2.02	0.41
1:P:433:LEU:N	1:P:434:PRO:HD2	2.36	0.41
1:P:62:TRP:C	1:P:63:PHE:CD1	2.95	0.41
1:P:745:MET:CE	1:P:745:MET:CA	2.97	0.41
1:A:36:TRP:CD1	1:A:41:GLU:HB3	2.57	0.40
1:A:60:PHE:HB3	1:A:84:VAL:CG2	2.51	0.40
1:A:86:VAL:HG13	1:A:87:PRO:HA	2.03	0.40
1:B:308:LEU:HA	1:B:308:LEU:HD23	1.73	0.40
1:B:746:ASP:HB2	1:B:758:PHE:O	2.21	0.40
1:B:789:LEU:O	1:B:790:ASP:C	2.59	0.40
1:B:805:ALA:O	1:B:809:ARG:HG3	2.21	0.40
1:C:1020:TRP:C	1:C:1020:TRP:CD1	2.94	0.40
1:C:668:VAL:CG1	1:C:669:PRO:CD	2.99	0.40
1:D:166:ARG:O	1:D:210:ARG:NH2	2.54	0.40
1:D:272:ALA:HA	1:D:273:PRO:HD3	1.75	0.40
1:D:62:TRP:C	1:D:63:PHE:CD1	2.94	0.40
1:D:745:MET:CE	1:D:745:MET:CA	2.97	0.40
1:D:949:HIS:CD2	1:D:1020:TRP:NE1	2.78	0.40
1:E:100:TYR:CE1	1:E:602:CYS:HB3	2.55	0.40
1:E:607:VAL:HG12	1:E:613:PRO:HA	2.03	0.40
1:E:655:MET:C	1:E:655:MET:HE2	2.41	0.40
1:E:805:ALA:O	1:E:809:ARG:HG3	2.21	0.40
1:E:856:TYR:CD2	1:E:864:MET:HE1	2.56	0.40
1:E:86:VAL:HG13	1:E:87:PRO:HA	2.03	0.40
1:F:66:PRO:CB	1:F:187:MET:HE1	2.51	0.40
1:F:305:ILE:HA	1:F:306:PRO:HD3	1.80	0.40
1:F:433:LEU:O	1:F:437:SER:HB3	2.20	0.40
1:F:685:LEU:CB	1:F:686:PRO:HD2	2.51	0.40
1:F:86:VAL:HG13	1:F:87:PRO:HA	2.03	0.40
1:G:305:ILE:HA	1:G:306:PRO:HD3	1.81	0.40
1:G:39:SER:OG	1:G:40:GLU:N	2.54	0.40
1:H:36:TRP:CD1	1:H:41:GLU:HB3	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:36:TRP:CD2	1:H:42:ALA:HA	2.55	0.40
1:H:433:LEU:N	1:H:434:PRO:HD2	2.36	0.40
1:H:65:ALA:HB1	1:H:66:PRO:CD	2.41	0.40
1:H:856:TYR:CD2	1:H:864:MET:HE2	2.56	0.40
1:I:34:ALA:HB3	1:I:36:TRP:CE3	2.56	0.40
1:I:706:THR:OG1	1:I:709:SER:N	2.54	0.40
1:I:835:LEU:C	1:I:836:ILE:HD13	2.41	0.40
1:J:177:LEU:HD23	1:J:177:LEU:HA	1.84	0.40
1:J:60:PHE:HB3	1:J:84:VAL:CG2	2.51	0.40
1:J:657:ALA:HA	1:J:661:LYS:O	2.20	0.40
1:J:702:GLN:HA	1:J:703:PRO:HD2	1.78	0.40
1:J:823:LEU:HD23	1:J:823:LEU:HA	1.86	0.40
1:J:856:TYR:HB3	1:J:864:MET:HE2	2.03	0.40
1:J:86:VAL:HA	1:J:87:PRO:HA	1.87	0.40
1:K:433:LEU:N	1:K:434:PRO:HD2	2.36	0.40
1:K:805:ALA:O	1:K:808:GLU:HB2	2.20	0.40
1:L:278:ILE:HG22	1:L:279:ILE:N	2.35	0.40
1:L:900:LEU:HA	1:L:900:LEU:HD23	1.81	0.40
1:L:939:CYS:HA	1:L:956:GLN:HB3	2.01	0.40
1:M:66:PRO:CB	1:M:187:MET:HE1	2.51	0.40
1:M:830:LEU:CD1	1:M:830:LEU:N	2.84	0.40
1:M:939:CYS:HA	1:M:956:GLN:HB3	2.01	0.40
1:N:655:MET:HE2	1:N:656:VAL:H	1.80	0.40
1:N:706:THR:OG1	1:N:709:SER:N	2.54	0.40
1:N:805:ALA:O	1:N:809:ARG:HG3	2.21	0.40
1:O:39:SER:OG	1:O:40:GLU:N	2.54	0.40
1:O:65:ALA:CB	1:O:66:PRO:CD	2.98	0.40
1:P:272:ALA:HB1	1:P:273:PRO:CD	2.49	0.40
1:P:409:VAL:HG12	1:P:410:VAL:N	2.36	0.40
1:P:421:VAL:HA	1:P:422:PRO:C	2.40	0.40
1:P:631:LEU:HD12	1:P:635:THR:O	2.21	0.40
1:P:66:PRO:HA	1:P:187:MET:HE3	2.02	0.40
1:P:706:THR:OG1	1:P:709:SER:N	2.54	0.40
1:P:805:ALA:O	1:P:809:ARG:HG3	2.21	0.40
1:A:433:LEU:N	1:A:434:PRO:HD2	2.36	0.40
1:A:479:ASP:HA	1:A:480:PRO:HD2	1.55	0.40
1:A:559:TYR:HA	1:A:560:PRO:HD2	1.80	0.40
1:A:62:TRP:C	1:A:63:PHE:CD1	2.95	0.40
1:C:682:LEU:HD23	1:C:682:LEU:HA	1.70	0.40
1:D:141:ILE:HG12	1:D:142:ILE:H	1.84	0.40
1:D:746:ASP:HB2	1:D:758:PHE:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:257:THR:OG1	1:F:271:THR:HG23	2.22	0.40
1:F:377:LEU:HD22	1:F:377:LEU:HA	1.69	0.40
1:F:607:VAL:HG12	1:F:613:PRO:HA	2.02	0.40
1:F:652:LEU:HB3	1:F:668:VAL:O	2.21	0.40
1:G:607:VAL:HG12	1:G:613:PRO:HA	2.02	0.40
1:G:694:LEU:O	1:G:722:LEU:N	2.51	0.40
1:H:257:THR:OG1	1:H:271:THR:HG23	2.22	0.40
1:H:272:ALA:HB1	1:H:273:PRO:CD	2.49	0.40
1:H:60:PHE:HB3	1:H:84:VAL:CG2	2.52	0.40
1:J:433:LEU:O	1:J:437:SER:HB3	2.20	0.40
1:K:231:PHE:CD1	1:K:231:PHE:N	2.88	0.40
1:K:830:LEU:N	1:K:830:LEU:CD1	2.84	0.40
1:L:652:LEU:HB3	1:L:668:VAL:O	2.20	0.40
1:M:308:LEU:HD23	1:M:308:LEU:HA	1.73	0.40
1:M:607:VAL:HG12	1:M:613:PRO:HA	2.02	0.40
1:N:18:ASN:N	1:N:193:ASP:OD2	2.54	0.40
1:N:347:LYS:HA	1:N:348:PRO:HD3	1.77	0.40
1:N:350:LEU:HA	1:N:350:LEU:HD12	1.88	0.40
1:N:685:LEU:CB	1:N:686:PRO:HD2	2.51	0.40
1:N:749:ILE:O	1:N:755:ARG:HA	2.22	0.40
1:O:256:VAL:CG1	1:O:257:THR:N	2.82	0.40
1:P:291:LEU:CD1	1:P:291:LEU:N	2.83	0.40
1:A:257:THR:OG1	1:A:271:THR:HG23	2.22	0.40
1:A:278:ILE:HG22	1:A:279:ILE:N	2.35	0.40
1:A:39:SER:OG	1:A:40:GLU:N	2.54	0.40
1:A:706:THR:OG1	1:A:709:SER:N	2.54	0.40
1:A:726:LEU:HA	1:A:726:LEU:HD23	1.85	0.40
1:B:631:LEU:HD12	1:B:635:THR:O	2.21	0.40
1:B:65:ALA:HB1	1:B:66:PRO:CD	2.41	0.40
1:B:701:VAL:CG1	1:B:702:GLN:N	2.82	0.40
1:C:433:LEU:O	1:C:437:SER:HB3	2.20	0.40
1:C:60:PHE:HB3	1:C:84:VAL:CG2	2.51	0.40
1:C:805:ALA:O	1:C:809:ARG:HG3	2.21	0.40
1:D:652:LEU:HB3	1:D:668:VAL:O	2.21	0.40
1:D:668:VAL:CG1	1:D:669:PRO:CD	2.99	0.40
1:E:62:TRP:C	1:E:63:PHE:CD1	2.95	0.40
1:E:802:ASP:HA	1:E:803:PRO:HD3	1.88	0.40
1:E:805:ALA:O	1:E:808:GLU:HB2	2.20	0.40
1:F:246:MET:HE3	1:F:247:CYS:CA	2.52	0.40
1:F:583:ASN:HA	1:F:584:PRO:HD3	1.79	0.40
1:G:476:LYS:HA	1:G:476:LYS:HD2	1.81	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:60:PHE:HB3	1:G:84:VAL:CG2	2.51	0.40
1:G:62:TRP:C	1:G:63:PHE:CD1	2.94	0.40
1:G:830:LEU:CD1	1:G:830:LEU:N	2.84	0.40
1:H:105:TYR:HA	1:H:106:PRO:HD3	1.89	0.40
1:H:221:GLN:H	1:H:221:GLN:HG2	1.74	0.40
1:H:363:HIS:N	1:H:363:HIS:CD2	2.84	0.40
1:H:668:VAL:CG1	1:H:669:PRO:CD	2.99	0.40
1:H:749:ILE:O	1:H:755:ARG:HA	2.21	0.40
1:I:512:PHE:HB3	1:I:513:PRO:HD2	2.04	0.40
1:I:901:GLY:HA3	1:I:902:PRO:HA	1.68	0.40
1:J:118:ASN:HA	1:J:119:PRO:HD2	1.61	0.40
1:J:46:ARG:HH11	1:J:46:ARG:CG	2.29	0.40
1:J:652:LEU:HB3	1:J:668:VAL:O	2.20	0.40
1:J:749:ILE:O	1:J:755:ARG:HA	2.21	0.40
1:K:73:TRP:O	1:K:183:ARG:NH1	2.51	0.40
1:K:914:CME:HE2	1:K:914:CME:HB3	1.90	0.40
1:L:39:SER:OG	1:L:40:GLU:N	2.54	0.40
1:L:668:VAL:CG1	1:L:669:PRO:CD	2.99	0.40
1:L:668:VAL:HA	1:L:669:PRO:HD3	1.87	0.40
1:L:830:LEU:CD1	1:L:830:LEU:N	2.84	0.40
1:M:409:VAL:HG12	1:M:410:VAL:N	2.36	0.40
1:M:655:MET:HB2	1:M:655:MET:HE3	1.77	0.40
1:M:86:VAL:HG13	1:M:87:PRO:HA	2.03	0.40
1:N:322:LEU:HD23	1:N:323:ILE:C	2.41	0.40
1:N:34:ALA:HB3	1:N:36:TRP:CE3	2.56	0.40
1:N:433:LEU:O	1:N:437:SER:HB3	2.20	0.40
1:N:607:VAL:HG12	1:N:613:PRO:HA	2.03	0.40
1:N:645:ARG:NH2	1:N:650:GLU:CD	2.75	0.40
1:O:347:LYS:CB	1:O:348:PRO:HD2	2.43	0.40
1:O:856:TYR:HB3	1:O:864:MET:HE2	2.03	0.40
1:O:896:ASN:HA	1:O:918:TRP:O	2.21	0.40
1:P:141:ILE:HG12	1:P:142:ILE:H	1.84	0.40
1:P:221:GLN:HG2	1:P:221:GLN:H	1.74	0.40
1:P:36:TRP:CD1	1:P:41:GLU:HB3	2.56	0.40
1:P:800:ARG:HB2	1:P:800:ARG:HE	1.58	0.40
1:P:86:VAL:HA	1:P:87:PRO:HA	1.87	0.40
1:A:36:TRP:CD2	1:A:42:ALA:HA	2.55	0.40
1:B:255:ARG:HG2	1:B:255:ARG:NH1	2.35	0.40
1:B:512:PHE:HB3	1:B:513:PRO:HD2	2.04	0.40
1:C:221:GLN:HE21	1:C:221:GLN:HB3	1.58	0.40
1:C:39:SER:OG	1:C:40:GLU:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:652:LEU:HB3	1:C:668:VAL:O	2.21	0.40
1:C:746:ASP:HB2	1:C:758:PHE:O	2.21	0.40
1:C:86:VAL:HG13	1:C:87:PRO:HA	2.03	0.40
1:D:1000:SER:HB2	1:D:1001:PRO:CD	2.52	0.40
1:D:60:PHE:HB3	1:D:84:VAL:CG2	2.52	0.40
1:D:856:TYR:HB3	1:D:864:MET:HE2	2.02	0.40
1:E:166:ARG:O	1:E:210:ARG:NH2	2.54	0.40
1:E:482:ARG:HD2	1:E:482:ARG:HH11	1.67	0.40
1:E:60:PHE:HB3	1:E:84:VAL:CG2	2.51	0.40
1:E:645:ARG:NH2	1:E:650:GLU:CD	2.75	0.40
1:F:34:ALA:HB3	1:F:36:TRP:CE3	2.56	0.40
1:F:746:ASP:HB2	1:F:758:PHE:O	2.21	0.40
1:F:896:ASN:HA	1:F:918:TRP:O	2.21	0.40
1:G:360:HIS:ND1	1:G:362:LEU:HB2	2.33	0.40
1:G:66:PRO:CB	1:G:187:MET:HE1	2.51	0.40
1:H:62:TRP:C	1:H:63:PHE:CD1	2.95	0.40
1:H:652:LEU:HB3	1:H:668:VAL:O	2.21	0.40
1:H:730:LEU:CB	1:H:731:PRO:HD2	2.45	0.40
1:H:835:LEU:C	1:H:836:ILE:HD13	2.41	0.40
1:I:652:LEU:HB3	1:I:668:VAL:O	2.20	0.40
1:I:655:MET:HE2	1:I:656:VAL:H	1.80	0.40
1:I:65:ALA:HB1	1:I:66:PRO:CD	2.41	0.40
1:I:73:TRP:O	1:I:183:ARG:NH1	2.51	0.40
1:I:86:VAL:HG13	1:I:87:PRO:HA	2.03	0.40
1:K:401:LEU:HD23	1:K:401:LEU:HA	1.92	0.40
1:L:66:PRO:CB	1:L:187:MET:HE1	2.51	0.40
1:L:31:PRO:HA	1:L:32:PRO:HD3	1.79	0.40
1:L:655:MET:HE2	1:L:656:VAL:H	1.80	0.40
1:L:917:ARG:HD2	1:L:917:ARG:HH11	1.73	0.40
1:M:1000:SER:HA	1:M:1001:PRO:HD3	1.76	0.40
1:M:272:ALA:HB1	1:M:273:PRO:CD	2.49	0.40
1:M:631:LEU:HD12	1:M:635:THR:O	2.21	0.40
1:M:947:GLY:HA3	1:M:948:PRO:HD2	1.79	0.40
1:N:166:ARG:O	1:N:210:ARG:NH2	2.54	0.40
1:N:18:ASN:HD22	1:N:21:VAL:HG23	1.80	0.40
1:N:638:VAL:HG12	1:N:639:THR:N	2.36	0.40
1:O:476:LYS:HD2	1:O:476:LYS:HA	1.81	0.40
1:O:645:ARG:NH2	1:O:650:GLU:CD	2.75	0.40
1:O:7:LEU:O	1:O:8:ALA:C	2.59	0.40
1:P:308:LEU:HA	1:P:308:LEU:HD23	1.73	0.40
1:P:60:PHE:HB3	1:P:84:VAL:CG2	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:645:ARG:NH2	1:P:650:GLU:CD	2.75	0.40
1:P:668:VAL:CG1	1:P:669:PRO:CD	2.99	0.40
1:A:221:GLN:HE21	1:A:221:GLN:HB3	1.58	0.40
1:A:23:GLN:HB3	1:A:26:ARG:NH2	2.37	0.40
1:A:694:LEU:O	1:A:722:LEU:N	2.51	0.40
1:B:166:ARG:O	1:B:210:ARG:NH2	2.54	0.40
1:B:66:PRO:CB	1:B:187:MET:HE1	2.51	0.40
1:B:257:THR:OG1	1:B:271:THR:HG23	2.22	0.40
1:B:607:VAL:HG12	1:B:613:PRO:HA	2.03	0.40
1:B:655:MET:HE2	1:B:655:MET:C	2.40	0.40
1:B:800:ARG:HB2	1:B:800:ARG:HE	1.58	0.40
1:B:830:LEU:N	1:B:830:LEU:CD1	2.84	0.40
1:B:900:LEU:HD23	1:B:900:LEU:HA	1.81	0.40
1:C:141:ILE:C	1:C:142:ILE:HG13	2.40	0.40
1:C:18:ASN:N	1:C:193:ASP:OD2	2.54	0.40
1:C:214:LEU:HD23	1:C:214:LEU:HA	1.73	0.40
1:D:39:SER:OG	1:D:40:GLU:N	2.54	0.40
1:A:282:ARG:HH11	1:D:419:GLY:C	2.25	0.40
1:A:473:ARG:HD2	1:D:469:ASP:HB3	2.02	0.40
1:D:607:VAL:HG12	1:D:613:PRO:HA	2.03	0.40
1:E:336:ARG:CG	1:E:336:ARG:HH11	2.26	0.40
1:F:166:ARG:O	1:F:210:ARG:NH2	2.54	0.40
1:F:221:GLN:H	1:F:221:GLN:HG2	1.74	0.40
1:F:655:MET:HE2	1:F:656:VAL:H	1.80	0.40
1:G:257:THR:OG1	1:G:271:THR:HG23	2.22	0.40
1:G:347:LYS:CB	1:G:348:PRO:HD2	2.43	0.40
1:G:645:ARG:NH2	1:G:650:GLU:CD	2.75	0.40
1:G:749:ILE:O	1:G:755:ARG:HA	2.22	0.40
1:G:835:LEU:C	1:G:836:ILE:HD13	2.41	0.40
1:H:278:ILE:HG22	1:H:279:ILE:N	2.35	0.40
1:H:31:PRO:HA	1:H:32:PRO:HD3	1.79	0.40
1:H:668:VAL:HA	1:H:669:PRO:HD3	1.87	0.40
1:I:66:PRO:CB	1:I:187:MET:HE1	2.51	0.40
1:I:166:ARG:O	1:I:210:ARG:NH2	2.54	0.40
1:I:638:VAL:HG12	1:I:639:THR:N	2.36	0.40
1:I:670:LEU:HA	1:I:670:LEU:HD23	1.66	0.40
1:I:730:LEU:CB	1:I:731:PRO:HD2	2.45	0.40
1:J:23:GLN:HB3	1:J:26:ARG:NH2	2.37	0.40
1:J:272:ALA:HA	1:J:273:PRO:HD3	1.75	0.40
1:J:36:TRP:CD1	1:J:41:GLU:HB3	2.57	0.40
1:K:409:VAL:HG12	1:K:410:VAL:N	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:60:PHE:HB3	1:L:84:VAL:CG2	2.52	0.40
1:M:347:LYS:CB	1:M:348:PRO:HD2	2.43	0.40
1:M:512:PHE:HB3	1:M:513:PRO:HD2	2.04	0.40
1:M:62:TRP:C	1:M:63:PHE:CD1	2.95	0.40
1:N:257:THR:OG1	1:N:271:THR:HG23	2.22	0.40
1:N:377:LEU:HD22	1:N:377:LEU:HA	1.69	0.40
1:N:36:TRP:CD1	1:N:41:GLU:HB3	2.56	0.40
1:N:583:ASN:HA	1:N:584:PRO:HD3	1.79	0.40
1:N:62:TRP:C	1:N:63:PHE:CD1	2.94	0.40
1:N:730:LEU:CB	1:N:731:PRO:HD2	2.45	0.40
1:O:257:THR:OG1	1:O:271:THR:HG23	2.22	0.40
1:O:34:ALA:HB3	1:O:36:TRP:CE3	2.56	0.40
1:O:512:PHE:HB3	1:O:513:PRO:HD2	2.04	0.40
1:O:60:PHE:HB3	1:O:84:VAL:CG2	2.51	0.40
1:O:835:LEU:C	1:O:836:ILE:HD13	2.41	0.40
1:P:178:ARG:CB	1:P:178:ARG:NH1	2.78	0.40
1:P:471:LEU:HD23	1:P:471:LEU:HA	1.84	0.40
1:P:645:ARG:NH2	1:P:650:GLU:OE2	2.50	0.40
1:P:835:LEU:C	1:P:836:ILE:HD13	2.41	0.40

All (10) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:740:LEU:O	1:L:739:HIS:CD2[1_455]	1.58	0.62
1:B:740:LEU:O	1:P:739:HIS:CD2[1_354]	1.68	0.52
1:A:580:GLU:O	1:B:578:TYR:CG[2_555]	1.72	0.48
1:A:580:GLU:O	1:B:578:TYR:CB[2_555]	1.74	0.46
1:C:750:GLU:OE2	1:I:735:HIS:ND1[1_655]	2.02	0.18
1:B:739:HIS:NE2	1:P:738:PRO:O[1_354]	2.02	0.18
1:G:740:LEU:O	1:L:739:HIS:NE2[1_455]	2.05	0.15
1:A:580:GLU:O	1:B:578:TYR:CD1[2_555]	2.11	0.09
1:A:131:GLU:OE1	1:O:743:SER:OG[2_756]	2.13	0.07
1:C:739:HIS:ND1	1:I:734:SER:O[1_655]	2.18	0.02

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1018/1023 (100%)	953 (94%)	62 (6%)	3 (0%)	44	70
1	B	1018/1023 (100%)	953 (94%)	62 (6%)	3 (0%)	44	70
1	C	1018/1023 (100%)	952 (94%)	63 (6%)	3 (0%)	44	70
1	D	1018/1023 (100%)	953 (94%)	62 (6%)	3 (0%)	44	70
1	E	1018/1023 (100%)	953 (94%)	62 (6%)	3 (0%)	44	70
1	F	1018/1023 (100%)	953 (94%)	62 (6%)	3 (0%)	44	70
1	G	1018/1023 (100%)	953 (94%)	62 (6%)	3 (0%)	44	70
1	H	1018/1023 (100%)	952 (94%)	63 (6%)	3 (0%)	44	70
1	I	1018/1023 (100%)	953 (94%)	62 (6%)	3 (0%)	44	70
1	J	1018/1023 (100%)	953 (94%)	62 (6%)	3 (0%)	44	70
1	K	1018/1023 (100%)	953 (94%)	62 (6%)	3 (0%)	44	70
1	L	1018/1023 (100%)	953 (94%)	62 (6%)	3 (0%)	44	70
1	M	1018/1023 (100%)	952 (94%)	63 (6%)	3 (0%)	44	70
1	N	1018/1023 (100%)	953 (94%)	62 (6%)	3 (0%)	44	70
1	O	1018/1023 (100%)	952 (94%)	63 (6%)	3 (0%)	44	70
1	P	1018/1023 (100%)	953 (94%)	62 (6%)	3 (0%)	44	70
All	All	16288/16368 (100%)	15244 (94%)	996 (6%)	48 (0%)	44	70

All (48) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	174	SER
1	B	174	SER
1	C	174	SER
1	D	174	SER
1	E	174	SER
1	F	174	SER

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Mol	Chain	Res	Type
1	G	174	SER
1	H	174	SER
1	I	174	SER
1	J	174	SER
1	K	174	SER
1	L	174	SER
1	M	174	SER
1	N	174	SER
1	O	174	SER
1	P	174	SER
1	A	688	PRO
1	B	688	PRO
1	C	688	PRO
1	D	688	PRO
1	E	688	PRO
1	F	688	PRO
1	G	688	PRO
1	H	688	PRO
1	I	688	PRO
1	J	688	PRO
1	K	688	PRO
1	L	688	PRO
1	M	688	PRO
1	N	688	PRO
1	O	688	PRO
1	P	688	PRO
1	A	164	ASP
1	B	164	ASP
1	C	164	ASP
1	D	164	ASP
1	E	164	ASP
1	F	164	ASP
1	G	164	ASP
1	H	164	ASP
1	I	164	ASP
1	J	164	ASP
1	K	164	ASP
1	L	164	ASP
1	M	164	ASP
1	N	164	ASP
1	O	164	ASP
1	P	164	ASP

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	872/872 (100%)	757 (87%)	115 (13%)	5	8
1	B	872/872 (100%)	757 (87%)	115 (13%)	5	8
1	C	872/872 (100%)	757 (87%)	115 (13%)	5	8
1	D	872/872 (100%)	757 (87%)	115 (13%)	5	8
1	E	872/872 (100%)	757 (87%)	115 (13%)	5	8
1	F	872/872 (100%)	757 (87%)	115 (13%)	5	8
1	G	872/872 (100%)	757 (87%)	115 (13%)	5	8
1	H	872/872 (100%)	758 (87%)	114 (13%)	5	8
1	I	872/872 (100%)	757 (87%)	115 (13%)	5	8
1	J	872/872 (100%)	757 (87%)	115 (13%)	5	8
1	K	872/872 (100%)	758 (87%)	114 (13%)	5	8
1	L	872/872 (100%)	757 (87%)	115 (13%)	5	8
1	M	872/872 (100%)	757 (87%)	115 (13%)	5	8
1	N	872/872 (100%)	757 (87%)	115 (13%)	5	8
1	O	872/872 (100%)	757 (87%)	115 (13%)	5	8
1	P	872/872 (100%)	758 (87%)	114 (13%)	5	8
All	All	13952/13952 (100%)	12115 (87%)	1837 (13%)	5	8

All (1837) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	ILE
1	A	9	VAL
1	A	37	ARG
1	A	39	SER
1	A	43	ARG
1	A	46	ARG
1	A	48	SER
1	A	49	GLN

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Mol	Chain	Res	Type
1	A	50	GLN
1	A	52	ARG
1	A	71	GLU
1	A	72	SER
1	A	80	GLU
1	A	90	TRP
1	A	102	ASN
1	A	116	THR
1	A	123	TYR
1	A	124	SER
1	A	125	LEU
1	A	128	ASN
1	A	131	GLU
1	A	132	SER
1	A	136	GLU
1	A	138	GLN
1	A	141	ILE
1	A	165	SER
1	A	171	PHE
1	A	189	LEU
1	A	190	ARG
1	A	202	MET
1	A	210	ARG
1	A	211	ASP
1	A	213	SER
1	A	219	THR
1	A	237	ARG
1	A	246	MET
1	A	247	CYS
1	A	249	GLU
1	A	250	LEU
1	A	259	SER
1	A	262	GLN
1	A	264	GLU
1	A	277	GLU
1	A	302	SER
1	A	310	ARG
1	A	312	VAL
1	A	333	ARG
1	A	336	ARG
1	A	347	LYS
1	A	370	GLN

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Mol	Chain	Res	Type
1	A	377	LEU
1	A	380	LYS
1	A	394	ASN
1	A	425	ARG
1	A	437	SER
1	A	448	ARG
1	A	473	ARG
1	A	477	SER
1	A	494	THR
1	A	519	SER
1	A	521	LYS
1	A	545	SER
1	A	546	LEU
1	A	571	VAL
1	A	580	GLU
1	A	581	ASN
1	A	586	SER
1	A	599	ARG
1	A	600	GLN
1	A	630	ARG
1	A	635	THR
1	A	645	ARG
1	A	651	LEU
1	A	655	MET
1	A	661	LYS
1	A	672	VAL
1	A	675	GLN
1	A	681	GLU
1	A	684	GLU
1	A	687	GLN
1	A	690	SER
1	A	719	GLN
1	A	721	ARG
1	A	730	LEU
1	A	734	SER
1	A	743	SER
1	A	755	ARG
1	A	761	GLN
1	A	768	MET
1	A	773	LYS
1	A	774	LYS
1	A	777	LEU

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Mol	Chain	Res	Type
1	A	778	THR
1	A	781	ARG
1	A	799	THR
1	A	809	ARG
1	A	822	LEU
1	A	824	GLN
1	A	829	THR
1	A	832	ASP
1	A	843	GLN
1	A	857	ARG
1	A	867	THR
1	A	881	ARG
1	A	893	GLU
1	A	903[A]	GLN
1	A	903[B]	GLN
1	A	917	ARG
1	A	921	PRO
1	A	938	ARG
1	A	952	ARG
1	A	956	GLN
1	A	986	ILE
1	A	1006	GLU
1	A	1017	GLN
1	B	3	ILE
1	B	9	VAL
1	B	37	ARG
1	B	39	SER
1	B	43	ARG
1	B	46	ARG
1	B	48	SER
1	B	49	GLN
1	B	50	GLN
1	B	52	ARG
1	B	71	GLU
1	B	72	SER
1	B	80	GLU
1	B	90	TRP
1	B	102	ASN
1	B	116	THR
1	B	123	TYR
1	B	124	SER
1	B	125	LEU

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Mol	Chain	Res	Type
1	B	128	ASN
1	B	131	GLU
1	B	132	SER
1	B	136	GLU
1	B	138	GLN
1	B	141	ILE
1	B	165	SER
1	B	171	PHE
1	B	189	LEU
1	B	190	ARG
1	B	202	MET
1	B	210	ARG
1	B	211	ASP
1	B	213	SER
1	B	219	THR
1	B	237	ARG
1	B	246	MET
1	B	247	CYS
1	B	249	GLU
1	B	250	LEU
1	B	259	SER
1	B	262	GLN
1	B	264	GLU
1	B	277	GLU
1	B	302	SER
1	B	310	ARG
1	B	312	VAL
1	B	333	ARG
1	B	336	ARG
1	B	347	LYS
1	B	370	GLN
1	B	377	LEU
1	B	380	LYS
1	B	394	ASN
1	B	425	ARG
1	B	437	SER
1	B	448	ARG
1	B	473	ARG
1	B	477	SER
1	B	494	THR
1	B	519	SER
1	B	521	LYS

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Mol	Chain	Res	Type
1	B	545	SER
1	B	546	LEU
1	B	571	VAL
1	B	580	GLU
1	B	581	ASN
1	B	586	SER
1	B	599	ARG
1	B	600	GLN
1	B	630	ARG
1	B	635	THR
1	B	645	ARG
1	B	651	LEU
1	B	655	MET
1	B	661	LYS
1	B	672	VAL
1	B	675	GLN
1	B	681	GLU
1	B	684	GLU
1	B	687	GLN
1	B	690	SER
1	B	719	GLN
1	B	721	ARG
1	B	730	LEU
1	B	734	SER
1	B	743	SER
1	B	755	ARG
1	B	761	GLN
1	B	768	MET
1	B	773	LYS
1	B	774	LYS
1	B	777	LEU
1	B	778	THR
1	B	781	ARG
1	B	799	THR
1	B	809	ARG
1	B	822	LEU
1	B	824	GLN
1	B	829	THR
1	B	832	ASP
1	B	843	GLN
1	B	857	ARG
1	B	867	THR

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Mol	Chain	Res	Type
1	B	881	ARG
1	B	893	GLU
1	B	903[A]	GLN
1	B	903[B]	GLN
1	B	917	ARG
1	B	921	PRO
1	B	938	ARG
1	B	952	ARG
1	B	956	GLN
1	B	986	ILE
1	B	1006	GLU
1	B	1017	GLN
1	C	3	ILE
1	C	9	VAL
1	C	37	ARG
1	C	39	SER
1	C	43	ARG
1	C	46	ARG
1	C	48	SER
1	C	49	GLN
1	C	50	GLN
1	C	52	ARG
1	C	71	GLU
1	C	72	SER
1	C	80	GLU
1	C	90	TRP
1	C	102	ASN
1	C	116	THR
1	C	123	TYR
1	C	124	SER
1	C	125	LEU
1	C	128	ASN
1	C	131	GLU
1	C	132	SER
1	C	136	GLU
1	C	138	GLN
1	C	141	ILE
1	C	165	SER
1	C	171	PHE
1	C	189	LEU
1	C	190	ARG
1	C	202	MET

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Mol	Chain	Res	Type
1	C	210	ARG
1	C	211	ASP
1	C	213	SER
1	C	219	THR
1	C	237	ARG
1	C	246	MET
1	C	247	CYS
1	C	249	GLU
1	C	250	LEU
1	C	259	SER
1	C	262	GLN
1	C	264	GLU
1	C	277	GLU
1	C	302	SER
1	C	310	ARG
1	C	312	VAL
1	C	333	ARG
1	C	336	ARG
1	C	347	LYS
1	C	370	GLN
1	C	377	LEU
1	C	380	LYS
1	C	394	ASN
1	C	425	ARG
1	C	437	SER
1	C	448	ARG
1	C	473	ARG
1	C	477	SER
1	C	494	THR
1	C	519	SER
1	C	521	LYS
1	C	545	SER
1	C	546	LEU
1	C	571	VAL
1	C	580	GLU
1	C	581	ASN
1	C	586	SER
1	C	599	ARG
1	C	600	GLN
1	C	630	ARG
1	C	635	THR
1	C	645	ARG

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Mol	Chain	Res	Type
1	C	651	LEU
1	C	655	MET
1	C	661	LYS
1	C	672	VAL
1	C	675	GLN
1	C	681	GLU
1	C	684	GLU
1	C	687	GLN
1	C	690	SER
1	C	719	GLN
1	C	721	ARG
1	C	730	LEU
1	C	734	SER
1	C	743	SER
1	C	755	ARG
1	C	761	GLN
1	C	768	MET
1	C	773	LYS
1	C	774	LYS
1	C	777	LEU
1	C	778	THR
1	C	781	ARG
1	C	799	THR
1	C	809	ARG
1	C	822	LEU
1	C	824	GLN
1	C	829	THR
1	C	832	ASP
1	C	843	GLN
1	C	857	ARG
1	C	867	THR
1	C	881	ARG
1	C	893	GLU
1	C	903[A]	GLN
1	C	903[B]	GLN
1	C	917	ARG
1	C	921	PRO
1	C	938	ARG
1	C	952	ARG
1	C	956	GLN
1	C	986	ILE
1	C	1006	GLU

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Mol	Chain	Res	Type
1	C	1017	GLN
1	D	3	ILE
1	D	9	VAL
1	D	37	ARG
1	D	39	SER
1	D	43	ARG
1	D	46	ARG
1	D	48	SER
1	D	49	GLN
1	D	50	GLN
1	D	52	ARG
1	D	71	GLU
1	D	72	SER
1	D	80	GLU
1	D	90	TRP
1	D	102	ASN
1	D	116	THR
1	D	123	TYR
1	D	124	SER
1	D	125	LEU
1	D	128	ASN
1	D	131	GLU
1	D	132	SER
1	D	136	GLU
1	D	138	GLN
1	D	141	ILE
1	D	165	SER
1	D	171	PHE
1	D	189	LEU
1	D	190	ARG
1	D	202	MET
1	D	210	ARG
1	D	211	ASP
1	D	213	SER
1	D	219	THR
1	D	237	ARG
1	D	246	MET
1	D	247	CYS
1	D	249	GLU
1	D	250	LEU
1	D	259	SER
1	D	262	GLN

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Mol	Chain	Res	Type
1	D	264	GLU
1	D	277	GLU
1	D	302	SER
1	D	310	ARG
1	D	312	VAL
1	D	333	ARG
1	D	336	ARG
1	D	347	LYS
1	D	370	GLN
1	D	377	LEU
1	D	380	LYS
1	D	394	ASN
1	D	425	ARG
1	D	437	SER
1	D	448	ARG
1	D	473	ARG
1	D	477	SER
1	D	494	THR
1	D	519	SER
1	D	521	LYS
1	D	545	SER
1	D	546	LEU
1	D	571	VAL
1	D	580	GLU
1	D	581	ASN
1	D	586	SER
1	D	599	ARG
1	D	600	GLN
1	D	630	ARG
1	D	635	THR
1	D	645	ARG
1	D	651	LEU
1	D	655	MET
1	D	661	LYS
1	D	672	VAL
1	D	675	GLN
1	D	681	GLU
1	D	684	GLU
1	D	687	GLN
1	D	690	SER
1	D	719	GLN
1	D	721	ARG

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Mol	Chain	Res	Type
1	D	730	LEU
1	D	734	SER
1	D	743	SER
1	D	755	ARG
1	D	761	GLN
1	D	768	MET
1	D	773	LYS
1	D	774	LYS
1	D	777	LEU
1	D	778	THR
1	D	781	ARG
1	D	799	THR
1	D	809	ARG
1	D	822	LEU
1	D	824	GLN
1	D	829	THR
1	D	832	ASP
1	D	843	GLN
1	D	857	ARG
1	D	867	THR
1	D	881	ARG
1	D	893	GLU
1	D	903[A]	GLN
1	D	903[B]	GLN
1	D	917	ARG
1	D	921	PRO
1	D	938	ARG
1	D	952	ARG
1	D	956	GLN
1	D	986	ILE
1	D	1006	GLU
1	D	1017	GLN
1	E	3	ILE
1	E	9	VAL
1	E	37	ARG
1	E	39	SER
1	E	43	ARG
1	E	46	ARG
1	E	48	SER
1	E	49	GLN
1	E	50	GLN
1	E	52	ARG

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Mol	Chain	Res	Type
1	E	71	GLU
1	E	72	SER
1	E	80	GLU
1	E	90	TRP
1	E	102	ASN
1	E	116	THR
1	E	123	TYR
1	E	124	SER
1	E	125	LEU
1	E	128	ASN
1	E	131	GLU
1	E	132	SER
1	E	136	GLU
1	E	138	GLN
1	E	141	ILE
1	E	165	SER
1	E	171	PHE
1	E	189	LEU
1	E	190	ARG
1	E	202	MET
1	E	210	ARG
1	E	211	ASP
1	E	213	SER
1	E	219	THR
1	E	237	ARG
1	E	246	MET
1	E	247	CYS
1	E	249	GLU
1	E	250	LEU
1	E	259	SER
1	E	262	GLN
1	E	264	GLU
1	E	277	GLU
1	E	302	SER
1	E	310	ARG
1	E	312	VAL
1	E	333	ARG
1	E	336	ARG
1	E	347	LYS
1	E	370	GLN
1	E	377	LEU
1	E	380	LYS

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Mol	Chain	Res	Type
1	E	394	ASN
1	E	425	ARG
1	E	437	SER
1	E	448	ARG
1	E	473	ARG
1	E	477	SER
1	E	494	THR
1	E	519	SER
1	E	521	LYS
1	E	545	SER
1	E	546	LEU
1	E	571	VAL
1	E	580	GLU
1	E	581	ASN
1	E	586	SER
1	E	599	ARG
1	E	600	GLN
1	E	630	ARG
1	E	635	THR
1	E	645	ARG
1	E	651	LEU
1	E	655	MET
1	E	661	LYS
1	E	672	VAL
1	E	675	GLN
1	E	681	GLU
1	E	684	GLU
1	E	687	GLN
1	E	690	SER
1	E	719	GLN
1	E	721	ARG
1	E	730	LEU
1	E	734	SER
1	E	743	SER
1	E	755	ARG
1	E	761	GLN
1	E	768	MET
1	E	773	LYS
1	E	774	LYS
1	E	777	LEU
1	E	778	THR
1	E	781	ARG

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Mol	Chain	Res	Type
1	E	799	THR
1	E	809	ARG
1	E	822	LEU
1	E	824	GLN
1	E	829	THR
1	E	832	ASP
1	E	843	GLN
1	E	857	ARG
1	E	867	THR
1	E	881	ARG
1	E	893	GLU
1	E	903[A]	GLN
1	E	903[B]	GLN
1	E	917	ARG
1	E	921	PRO
1	E	938	ARG
1	E	952	ARG
1	E	956	GLN
1	E	986	ILE
1	E	1006	GLU
1	E	1017	GLN
1	F	3	ILE
1	F	9	VAL
1	F	37	ARG
1	F	39	SER
1	F	43	ARG
1	F	46	ARG
1	F	48	SER
1	F	49	GLN
1	F	50	GLN
1	F	52	ARG
1	F	71	GLU
1	F	72	SER
1	F	80	GLU
1	F	90	TRP
1	F	102	ASN
1	F	116	THR
1	F	123	TYR
1	F	124	SER
1	F	125	LEU
1	F	128	ASN
1	F	131	GLU

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Mol	Chain	Res	Type
1	F	132	SER
1	F	136	GLU
1	F	138	GLN
1	F	141	ILE
1	F	165	SER
1	F	171	PHE
1	F	189	LEU
1	F	190	ARG
1	F	202	MET
1	F	210	ARG
1	F	211	ASP
1	F	213	SER
1	F	219	THR
1	F	237	ARG
1	F	246	MET
1	F	247	CYS
1	F	249	GLU
1	F	250	LEU
1	F	259	SER
1	F	262	GLN
1	F	264	GLU
1	F	277	GLU
1	F	302	SER
1	F	310	ARG
1	F	312	VAL
1	F	333	ARG
1	F	336	ARG
1	F	347	LYS
1	F	370	GLN
1	F	377	LEU
1	F	380	LYS
1	F	394	ASN
1	F	425	ARG
1	F	437	SER
1	F	448	ARG
1	F	473	ARG
1	F	477	SER
1	F	494	THR
1	F	519	SER
1	F	521	LYS
1	F	545	SER
1	F	546	LEU

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Mol	Chain	Res	Type
1	F	571	VAL
1	F	580	GLU
1	F	581	ASN
1	F	586	SER
1	F	599	ARG
1	F	600	GLN
1	F	630	ARG
1	F	635	THR
1	F	645	ARG
1	F	651	LEU
1	F	655	MET
1	F	661	LYS
1	F	672	VAL
1	F	675	GLN
1	F	681	GLU
1	F	684	GLU
1	F	687	GLN
1	F	690	SER
1	F	719	GLN
1	F	721	ARG
1	F	730	LEU
1	F	734	SER
1	F	743	SER
1	F	755	ARG
1	F	761	GLN
1	F	768	MET
1	F	773	LYS
1	F	774	LYS
1	F	777	LEU
1	F	778	THR
1	F	781	ARG
1	F	799	THR
1	F	809	ARG
1	F	822	LEU
1	F	824	GLN
1	F	829	THR
1	F	832	ASP
1	F	843	GLN
1	F	857	ARG
1	F	867	THR
1	F	881	ARG
1	F	893	GLU

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Mol	Chain	Res	Type
1	F	903[A]	GLN
1	F	903[B]	GLN
1	F	917	ARG
1	F	921	PRO
1	F	938	ARG
1	F	952	ARG
1	F	956	GLN
1	F	986	ILE
1	F	1006	GLU
1	F	1017	GLN
1	G	3	ILE
1	G	9	VAL
1	G	37	ARG
1	G	39	SER
1	G	43	ARG
1	G	46	ARG
1	G	48	SER
1	G	49	GLN
1	G	50	GLN
1	G	52	ARG
1	G	71	GLU
1	G	72	SER
1	G	80	GLU
1	G	90	TRP
1	G	102	ASN
1	G	116	THR
1	G	123	TYR
1	G	124	SER
1	G	125	LEU
1	G	128	ASN
1	G	131	GLU
1	G	132	SER
1	G	136	GLU
1	G	138	GLN
1	G	141	ILE
1	G	165	SER
1	G	171	PHE
1	G	189	LEU
1	G	190	ARG
1	G	202	MET
1	G	210	ARG
1	G	211	ASP

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Mol	Chain	Res	Type
1	G	213	SER
1	G	219	THR
1	G	237	ARG
1	G	246	MET
1	G	247	CYS
1	G	249	GLU
1	G	250	LEU
1	G	259	SER
1	G	262	GLN
1	G	264	GLU
1	G	277	GLU
1	G	302	SER
1	G	310	ARG
1	G	312	VAL
1	G	333	ARG
1	G	336	ARG
1	G	347	LYS
1	G	370	GLN
1	G	377	LEU
1	G	380	LYS
1	G	394	ASN
1	G	425	ARG
1	G	437	SER
1	G	448	ARG
1	G	473	ARG
1	G	477	SER
1	G	494	THR
1	G	519	SER
1	G	521	LYS
1	G	545	SER
1	G	546	LEU
1	G	571	VAL
1	G	580	GLU
1	G	581	ASN
1	G	586	SER
1	G	599	ARG
1	G	600	GLN
1	G	630	ARG
1	G	635	THR
1	G	645	ARG
1	G	651	LEU
1	G	655	MET

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Mol	Chain	Res	Type
1	G	661	LYS
1	G	672	VAL
1	G	675	GLN
1	G	681	GLU
1	G	684	GLU
1	G	687	GLN
1	G	690	SER
1	G	719	GLN
1	G	721	ARG
1	G	730	LEU
1	G	734	SER
1	G	743	SER
1	G	755	ARG
1	G	761	GLN
1	G	768	MET
1	G	773	LYS
1	G	774	LYS
1	G	777	LEU
1	G	778	THR
1	G	781	ARG
1	G	799	THR
1	G	809	ARG
1	G	822	LEU
1	G	824	GLN
1	G	829	THR
1	G	832	ASP
1	G	843	GLN
1	G	857	ARG
1	G	867	THR
1	G	881	ARG
1	G	893	GLU
1	G	903[A]	GLN
1	G	903[B]	GLN
1	G	917	ARG
1	G	921	PRO
1	G	938	ARG
1	G	952	ARG
1	G	956	GLN
1	G	986	ILE
1	G	1006	GLU
1	G	1017	GLN
1	H	3	ILE

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Mol	Chain	Res	Type
1	H	9	VAL
1	H	37	ARG
1	H	39	SER
1	H	43	ARG
1	H	46	ARG
1	H	48	SER
1	H	49	GLN
1	H	50	GLN
1	H	52	ARG
1	H	71	GLU
1	H	72	SER
1	H	80	GLU
1	H	90	TRP
1	H	102	ASN
1	H	116	THR
1	H	123	TYR
1	H	124	SER
1	H	125	LEU
1	H	128	ASN
1	H	131	GLU
1	H	132	SER
1	H	136	GLU
1	H	138	GLN
1	H	141	ILE
1	H	165	SER
1	H	171	PHE
1	H	189	LEU
1	H	190	ARG
1	H	202	MET
1	H	210	ARG
1	H	211	ASP
1	H	213	SER
1	H	219	THR
1	H	237	ARG
1	H	246	MET
1	H	247	CYS
1	H	249	GLU
1	H	250	LEU
1	H	259	SER
1	H	262	GLN
1	H	264	GLU
1	H	277	GLU

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Mol	Chain	Res	Type
1	H	302	SER
1	H	310	ARG
1	H	312	VAL
1	H	333	ARG
1	H	336	ARG
1	H	347	LYS
1	H	370	GLN
1	H	377	LEU
1	H	380	LYS
1	H	394	ASN
1	H	425	ARG
1	H	437	SER
1	H	448	ARG
1	H	473	ARG
1	H	477	SER
1	H	494	THR
1	H	519	SER
1	H	521	LYS
1	H	545	SER
1	H	546	LEU
1	H	571	VAL
1	H	580	GLU
1	H	581	ASN
1	H	586	SER
1	H	599	ARG
1	H	600	GLN
1	H	630	ARG
1	H	635	THR
1	H	645	ARG
1	H	651	LEU
1	H	655	MET
1	H	661	LYS
1	H	672	VAL
1	H	675	GLN
1	H	681	GLU
1	H	684	GLU
1	H	687	GLN
1	H	690	SER
1	H	719	GLN
1	H	721	ARG
1	H	730	LEU
1	H	734	SER

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Mol	Chain	Res	Type
1	H	743	SER
1	H	755	ARG
1	H	761	GLN
1	H	768	MET
1	H	773	LYS
1	H	774	LYS
1	H	777	LEU
1	H	778	THR
1	H	781	ARG
1	H	799	THR
1	H	809	ARG
1	H	822	LEU
1	H	824	GLN
1	H	829	THR
1	H	832	ASP
1	H	843	GLN
1	H	857	ARG
1	H	867	THR
1	H	881	ARG
1	H	893	GLU
1	H	903[A]	GLN
1	H	903[B]	GLN
1	H	917	ARG
1	H	938	ARG
1	H	952	ARG
1	H	956	GLN
1	H	986	ILE
1	H	1006	GLU
1	H	1017	GLN
1	I	3	ILE
1	I	9	VAL
1	I	37	ARG
1	I	39	SER
1	I	43	ARG
1	I	46	ARG
1	I	48	SER
1	I	49	GLN
1	I	50	GLN
1	I	52	ARG
1	I	71	GLU
1	I	72	SER
1	I	80	GLU

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Mol	Chain	Res	Type
1	I	90	TRP
1	I	102	ASN
1	I	116	THR
1	I	123	TYR
1	I	124	SER
1	I	125	LEU
1	I	128	ASN
1	I	131	GLU
1	I	132	SER
1	I	136	GLU
1	I	138	GLN
1	I	141	ILE
1	I	165	SER
1	I	171	PHE
1	I	189	LEU
1	I	190	ARG
1	I	202	MET
1	I	210	ARG
1	I	211	ASP
1	I	213	SER
1	I	219	THR
1	I	237	ARG
1	I	246	MET
1	I	247	CYS
1	I	249	GLU
1	I	250	LEU
1	I	259	SER
1	I	262	GLN
1	I	264	GLU
1	I	277	GLU
1	I	302	SER
1	I	310	ARG
1	I	312	VAL
1	I	333	ARG
1	I	336	ARG
1	I	347	LYS
1	I	370	GLN
1	I	377	LEU
1	I	380	LYS
1	I	394	ASN
1	I	425	ARG
1	I	437	SER

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Mol	Chain	Res	Type
1	I	448	ARG
1	I	473	ARG
1	I	477	SER
1	I	494	THR
1	I	519	SER
1	I	521	LYS
1	I	545	SER
1	I	546	LEU
1	I	571	VAL
1	I	580	GLU
1	I	581	ASN
1	I	586	SER
1	I	599	ARG
1	I	600	GLN
1	I	630	ARG
1	I	635	THR
1	I	645	ARG
1	I	651	LEU
1	I	655	MET
1	I	661	LYS
1	I	672	VAL
1	I	675	GLN
1	I	681	GLU
1	I	684	GLU
1	I	687	GLN
1	I	690	SER
1	I	719	GLN
1	I	721	ARG
1	I	730	LEU
1	I	734	SER
1	I	743	SER
1	I	755	ARG
1	I	761	GLN
1	I	768	MET
1	I	773	LYS
1	I	774	LYS
1	I	777	LEU
1	I	778	THR
1	I	781	ARG
1	I	799	THR
1	I	809	ARG
1	I	822	LEU

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Mol	Chain	Res	Type
1	I	824	GLN
1	I	829	THR
1	I	832	ASP
1	I	843	GLN
1	I	857	ARG
1	I	867	THR
1	I	881	ARG
1	I	893	GLU
1	I	903[A]	GLN
1	I	903[B]	GLN
1	I	917	ARG
1	I	921	PRO
1	I	938	ARG
1	I	952	ARG
1	I	956	GLN
1	I	986	ILE
1	I	1006	GLU
1	I	1017	GLN
1	J	3	ILE
1	J	9	VAL
1	J	37	ARG
1	J	39	SER
1	J	43	ARG
1	J	46	ARG
1	J	48	SER
1	J	49	GLN
1	J	50	GLN
1	J	52	ARG
1	J	71	GLU
1	J	72	SER
1	J	80	GLU
1	J	90	TRP
1	J	102	ASN
1	J	116	THR
1	J	123	TYR
1	J	124	SER
1	J	125	LEU
1	J	128	ASN
1	J	131	GLU
1	J	132	SER
1	J	136	GLU
1	J	138	GLN

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Mol	Chain	Res	Type
1	J	141	ILE
1	J	165	SER
1	J	171	PHE
1	J	189	LEU
1	J	190	ARG
1	J	202	MET
1	J	210	ARG
1	J	211	ASP
1	J	213	SER
1	J	219	THR
1	J	237	ARG
1	J	246	MET
1	J	247	CYS
1	J	249	GLU
1	J	250	LEU
1	J	259	SER
1	J	262	GLN
1	J	264	GLU
1	J	277	GLU
1	J	302	SER
1	J	310	ARG
1	J	312	VAL
1	J	333	ARG
1	J	336	ARG
1	J	347	LYS
1	J	370	GLN
1	J	377	LEU
1	J	380	LYS
1	J	394	ASN
1	J	425	ARG
1	J	437	SER
1	J	448	ARG
1	J	473	ARG
1	J	477	SER
1	J	494	THR
1	J	519	SER
1	J	521	LYS
1	J	545	SER
1	J	546	LEU
1	J	571	VAL
1	J	580	GLU
1	J	581	ASN

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Mol	Chain	Res	Type
1	J	586	SER
1	J	599	ARG
1	J	600	GLN
1	J	630	ARG
1	J	635	THR
1	J	645	ARG
1	J	651	LEU
1	J	655	MET
1	J	661	LYS
1	J	672	VAL
1	J	675	GLN
1	J	681	GLU
1	J	684	GLU
1	J	687	GLN
1	J	690	SER
1	J	719	GLN
1	J	721	ARG
1	J	730	LEU
1	J	734	SER
1	J	743	SER
1	J	755	ARG
1	J	761	GLN
1	J	768	MET
1	J	773	LYS
1	J	774	LYS
1	J	777	LEU
1	J	778	THR
1	J	781	ARG
1	J	799	THR
1	J	809	ARG
1	J	822	LEU
1	J	824	GLN
1	J	829	THR
1	J	832	ASP
1	J	843	GLN
1	J	857	ARG
1	J	867	THR
1	J	881	ARG
1	J	893	GLU
1	J	903[A]	GLN
1	J	903[B]	GLN
1	J	917	ARG

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Mol	Chain	Res	Type
1	J	921	PRO
1	J	938	ARG
1	J	952	ARG
1	J	956	GLN
1	J	986	ILE
1	J	1006	GLU
1	J	1017	GLN
1	K	3	ILE
1	K	9	VAL
1	K	37	ARG
1	K	39	SER
1	K	43	ARG
1	K	46	ARG
1	K	48	SER
1	K	49	GLN
1	K	50	GLN
1	K	52	ARG
1	K	71	GLU
1	K	72	SER
1	K	80	GLU
1	K	90	TRP
1	K	102	ASN
1	K	116	THR
1	K	123	TYR
1	K	124	SER
1	K	125	LEU
1	K	128	ASN
1	K	131	GLU
1	K	132	SER
1	K	136	GLU
1	K	138	GLN
1	K	141	ILE
1	K	165	SER
1	K	171	PHE
1	K	189	LEU
1	K	190	ARG
1	K	202	MET
1	K	210	ARG
1	K	211	ASP
1	K	213	SER
1	K	219	THR
1	K	237	ARG

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Mol	Chain	Res	Type
1	K	246	MET
1	K	247	CYS
1	K	249	GLU
1	K	250	LEU
1	K	259	SER
1	K	262	GLN
1	K	264	GLU
1	K	277	GLU
1	K	302	SER
1	K	310	ARG
1	K	312	VAL
1	K	333	ARG
1	K	336	ARG
1	K	347	LYS
1	K	370	GLN
1	K	377	LEU
1	K	380	LYS
1	K	394	ASN
1	K	425	ARG
1	K	437	SER
1	K	448	ARG
1	K	473	ARG
1	K	477	SER
1	K	494	THR
1	K	519	SER
1	K	521	LYS
1	K	545	SER
1	K	546	LEU
1	K	571	VAL
1	K	580	GLU
1	K	581	ASN
1	K	586	SER
1	K	599	ARG
1	K	600	GLN
1	K	630	ARG
1	K	635	THR
1	K	645	ARG
1	K	651	LEU
1	K	655	MET
1	K	661	LYS
1	K	672	VAL
1	K	675	GLN

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Mol	Chain	Res	Type
1	K	681	GLU
1	K	684	GLU
1	K	687	GLN
1	K	690	SER
1	K	719	GLN
1	K	721	ARG
1	K	730	LEU
1	K	734	SER
1	K	743	SER
1	K	755	ARG
1	K	761	GLN
1	K	768	MET
1	K	773	LYS
1	K	774	LYS
1	K	777	LEU
1	K	778	THR
1	K	781	ARG
1	K	799	THR
1	K	809	ARG
1	K	822	LEU
1	K	824	GLN
1	K	829	THR
1	K	832	ASP
1	K	843	GLN
1	K	857	ARG
1	K	867	THR
1	K	881	ARG
1	K	893	GLU
1	K	903[A]	GLN
1	K	903[B]	GLN
1	K	917	ARG
1	K	938	ARG
1	K	952	ARG
1	K	956	GLN
1	K	986	ILE
1	K	1006	GLU
1	K	1017	GLN
1	L	3	ILE
1	L	9	VAL
1	L	37	ARG
1	L	39	SER
1	L	43	ARG

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Mol	Chain	Res	Type
1	L	46	ARG
1	L	48	SER
1	L	49	GLN
1	L	50	GLN
1	L	52	ARG
1	L	71	GLU
1	L	72	SER
1	L	80	GLU
1	L	90	TRP
1	L	102	ASN
1	L	116	THR
1	L	123	TYR
1	L	124	SER
1	L	125	LEU
1	L	128	ASN
1	L	131	GLU
1	L	132	SER
1	L	136	GLU
1	L	138	GLN
1	L	141	ILE
1	L	165	SER
1	L	171	PHE
1	L	189	LEU
1	L	190	ARG
1	L	202	MET
1	L	210	ARG
1	L	211	ASP
1	L	213	SER
1	L	219	THR
1	L	237	ARG
1	L	246	MET
1	L	247	CYS
1	L	249	GLU
1	L	250	LEU
1	L	259	SER
1	L	262	GLN
1	L	264	GLU
1	L	277	GLU
1	L	302	SER
1	L	310	ARG
1	L	312	VAL
1	L	333	ARG

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Mol	Chain	Res	Type
1	L	336	ARG
1	L	347	LYS
1	L	370	GLN
1	L	377	LEU
1	L	380	LYS
1	L	394	ASN
1	L	425	ARG
1	L	437	SER
1	L	448	ARG
1	L	473	ARG
1	L	477	SER
1	L	494	THR
1	L	519	SER
1	L	521	LYS
1	L	545	SER
1	L	546	LEU
1	L	571	VAL
1	L	580	GLU
1	L	581	ASN
1	L	586	SER
1	L	599	ARG
1	L	600	GLN
1	L	630	ARG
1	L	635	THR
1	L	645	ARG
1	L	651	LEU
1	L	655	MET
1	L	661	LYS
1	L	672	VAL
1	L	675	GLN
1	L	681	GLU
1	L	684	GLU
1	L	687	GLN
1	L	690	SER
1	L	719	GLN
1	L	721	ARG
1	L	730	LEU
1	L	734	SER
1	L	743	SER
1	L	755	ARG
1	L	761	GLN
1	L	768	MET

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Mol	Chain	Res	Type
1	L	773	LYS
1	L	774	LYS
1	L	777	LEU
1	L	778	THR
1	L	781	ARG
1	L	799	THR
1	L	809	ARG
1	L	822	LEU
1	L	824	GLN
1	L	829	THR
1	L	832	ASP
1	L	843	GLN
1	L	857	ARG
1	L	867	THR
1	L	881	ARG
1	L	893	GLU
1	L	903[A]	GLN
1	L	903[B]	GLN
1	L	917	ARG
1	L	921	PRO
1	L	938	ARG
1	L	952	ARG
1	L	956	GLN
1	L	986	ILE
1	L	1006	GLU
1	L	1017	GLN
1	M	3	ILE
1	M	9	VAL
1	M	37	ARG
1	M	39	SER
1	M	43	ARG
1	M	46	ARG
1	M	48	SER
1	M	49	GLN
1	M	50	GLN
1	M	52	ARG
1	M	71	GLU
1	M	72	SER
1	M	80	GLU
1	M	90	TRP
1	M	102	ASN
1	M	116	THR

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Mol	Chain	Res	Type
1	M	123	TYR
1	M	124	SER
1	M	125	LEU
1	M	128	ASN
1	M	131	GLU
1	M	132	SER
1	M	136	GLU
1	M	138	GLN
1	M	141	ILE
1	M	165	SER
1	M	171	PHE
1	M	189	LEU
1	M	190	ARG
1	M	202	MET
1	M	210	ARG
1	M	211	ASP
1	M	213	SER
1	M	219	THR
1	M	237	ARG
1	M	246	MET
1	M	247	CYS
1	M	249	GLU
1	M	250	LEU
1	M	259	SER
1	M	262	GLN
1	M	264	GLU
1	M	277	GLU
1	M	302	SER
1	M	310	ARG
1	M	312	VAL
1	M	333	ARG
1	M	336	ARG
1	M	347	LYS
1	M	370	GLN
1	M	377	LEU
1	M	380	LYS
1	M	394	ASN
1	M	425	ARG
1	M	437	SER
1	M	448	ARG
1	M	473	ARG
1	M	477	SER

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Mol	Chain	Res	Type
1	M	494	THR
1	M	519	SER
1	M	521	LYS
1	M	545	SER
1	M	546	LEU
1	M	571	VAL
1	M	580	GLU
1	M	581	ASN
1	M	586	SER
1	M	599	ARG
1	M	600	GLN
1	M	630	ARG
1	M	635	THR
1	M	645	ARG
1	M	651	LEU
1	M	655	MET
1	M	661	LYS
1	M	672	VAL
1	M	675	GLN
1	M	681	GLU
1	M	684	GLU
1	M	687	GLN
1	M	690	SER
1	M	719	GLN
1	M	721	ARG
1	M	730	LEU
1	M	734	SER
1	M	743	SER
1	M	755	ARG
1	M	761	GLN
1	M	768	MET
1	M	773	LYS
1	M	774	LYS
1	M	777	LEU
1	M	778	THR
1	M	781	ARG
1	M	799	THR
1	M	809	ARG
1	M	822	LEU
1	M	824	GLN
1	M	829	THR
1	M	832	ASP

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Mol	Chain	Res	Type
1	M	843	GLN
1	M	857	ARG
1	M	867	THR
1	M	881	ARG
1	M	893	GLU
1	M	903[A]	GLN
1	M	903[B]	GLN
1	M	917	ARG
1	M	921	PRO
1	M	938	ARG
1	M	952	ARG
1	M	956	GLN
1	M	986	ILE
1	M	1006	GLU
1	M	1017	GLN
1	N	3	ILE
1	N	9	VAL
1	N	37	ARG
1	N	39	SER
1	N	43	ARG
1	N	46	ARG
1	N	48	SER
1	N	49	GLN
1	N	50	GLN
1	N	52	ARG
1	N	71	GLU
1	N	72	SER
1	N	80	GLU
1	N	90	TRP
1	N	102	ASN
1	N	116	THR
1	N	123	TYR
1	N	124	SER
1	N	125	LEU
1	N	128	ASN
1	N	131	GLU
1	N	132	SER
1	N	136	GLU
1	N	138	GLN
1	N	141	ILE
1	N	165	SER
1	N	171	PHE

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Mol	Chain	Res	Type
1	N	189	LEU
1	N	190	ARG
1	N	202	MET
1	N	210	ARG
1	N	211	ASP
1	N	213	SER
1	N	219	THR
1	N	237	ARG
1	N	246	MET
1	N	247	CYS
1	N	249	GLU
1	N	250	LEU
1	N	259	SER
1	N	262	GLN
1	N	264	GLU
1	N	277	GLU
1	N	302	SER
1	N	310	ARG
1	N	312	VAL
1	N	333	ARG
1	N	336	ARG
1	N	347	LYS
1	N	370	GLN
1	N	377	LEU
1	N	380	LYS
1	N	394	ASN
1	N	425	ARG
1	N	437	SER
1	N	448	ARG
1	N	473	ARG
1	N	477	SER
1	N	494	THR
1	N	519	SER
1	N	521	LYS
1	N	545	SER
1	N	546	LEU
1	N	571	VAL
1	N	580	GLU
1	N	581	ASN
1	N	586	SER
1	N	599	ARG
1	N	600	GLN

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Mol	Chain	Res	Type
1	N	630	ARG
1	N	635	THR
1	N	645	ARG
1	N	651	LEU
1	N	655	MET
1	N	661	LYS
1	N	672	VAL
1	N	675	GLN
1	N	681	GLU
1	N	684	GLU
1	N	687	GLN
1	N	690	SER
1	N	719	GLN
1	N	721	ARG
1	N	730	LEU
1	N	734	SER
1	N	743	SER
1	N	755	ARG
1	N	761	GLN
1	N	768	MET
1	N	773	LYS
1	N	774	LYS
1	N	777	LEU
1	N	778	THR
1	N	781	ARG
1	N	799	THR
1	N	809	ARG
1	N	822	LEU
1	N	824	GLN
1	N	829	THR
1	N	832	ASP
1	N	843	GLN
1	N	857	ARG
1	N	867	THR
1	N	881	ARG
1	N	893	GLU
1	N	903[A]	GLN
1	N	903[B]	GLN
1	N	917	ARG
1	N	921	PRO
1	N	938	ARG
1	N	952	ARG

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Mol	Chain	Res	Type
1	N	956	GLN
1	N	986	ILE
1	N	1006	GLU
1	N	1017	GLN
1	O	3	ILE
1	O	9	VAL
1	O	37	ARG
1	O	39	SER
1	O	43	ARG
1	O	46	ARG
1	O	48	SER
1	O	49	GLN
1	O	50	GLN
1	O	52	ARG
1	O	71	GLU
1	O	72	SER
1	O	80	GLU
1	O	90	TRP
1	O	102	ASN
1	O	116	THR
1	O	123	TYR
1	O	124	SER
1	O	125	LEU
1	O	128	ASN
1	O	131	GLU
1	O	132	SER
1	O	136	GLU
1	O	138	GLN
1	O	141	ILE
1	O	165	SER
1	O	171	PHE
1	O	189	LEU
1	O	190	ARG
1	O	202	MET
1	O	210	ARG
1	O	211	ASP
1	O	213	SER
1	O	219	THR
1	O	237	ARG
1	O	246	MET
1	O	247	CYS
1	O	249	GLU

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Mol	Chain	Res	Type
1	O	250	LEU
1	O	259	SER
1	O	262	GLN
1	O	264	GLU
1	O	277	GLU
1	O	302	SER
1	O	310	ARG
1	O	312	VAL
1	O	333	ARG
1	O	336	ARG
1	O	347	LYS
1	O	370	GLN
1	O	377	LEU
1	O	380	LYS
1	O	394	ASN
1	O	425	ARG
1	O	437	SER
1	O	448	ARG
1	O	473	ARG
1	O	477	SER
1	O	494	THR
1	O	519	SER
1	O	521	LYS
1	O	545	SER
1	O	546	LEU
1	O	571	VAL
1	O	580	GLU
1	O	581	ASN
1	O	586	SER
1	O	599	ARG
1	O	600	GLN
1	O	630	ARG
1	O	635	THR
1	O	645	ARG
1	O	651	LEU
1	O	655	MET
1	O	661	LYS
1	O	672	VAL
1	O	675	GLN
1	O	681	GLU
1	O	684	GLU
1	O	687	GLN

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Mol	Chain	Res	Type
1	O	690	SER
1	O	719	GLN
1	O	721	ARG
1	O	730	LEU
1	O	734	SER
1	O	743	SER
1	O	755	ARG
1	O	761	GLN
1	O	768	MET
1	O	773	LYS
1	O	774	LYS
1	O	777	LEU
1	O	778	THR
1	O	781	ARG
1	O	799	THR
1	O	809	ARG
1	O	822	LEU
1	O	824	GLN
1	O	829	THR
1	O	832	ASP
1	O	843	GLN
1	O	857	ARG
1	O	867	THR
1	O	881	ARG
1	O	893	GLU
1	O	903[A]	GLN
1	O	903[B]	GLN
1	O	917	ARG
1	O	921	PRO
1	O	938	ARG
1	O	952	ARG
1	O	956	GLN
1	O	986	ILE
1	O	1006	GLU
1	O	1017	GLN
1	P	3	ILE
1	P	9	VAL
1	P	37	ARG
1	P	39	SER
1	P	43	ARG
1	P	46	ARG
1	P	48	SER

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Mol	Chain	Res	Type
1	P	49	GLN
1	P	50	GLN
1	P	52	ARG
1	P	71	GLU
1	P	72	SER
1	P	80	GLU
1	P	90	TRP
1	P	102	ASN
1	P	116	THR
1	P	123	TYR
1	P	124	SER
1	P	125	LEU
1	P	128	ASN
1	P	131	GLU
1	P	132	SER
1	P	136	GLU
1	P	138	GLN
1	P	141	ILE
1	P	165	SER
1	P	171	PHE
1	P	189	LEU
1	P	190	ARG
1	P	202	MET
1	P	210	ARG
1	P	211	ASP
1	P	213	SER
1	P	219	THR
1	P	237	ARG
1	P	246	MET
1	P	247	CYS
1	P	249	GLU
1	P	250	LEU
1	P	259	SER
1	P	262	GLN
1	P	264	GLU
1	P	277	GLU
1	P	302	SER
1	P	310	ARG
1	P	312	VAL
1	P	333	ARG
1	P	336	ARG
1	P	347	LYS

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Mol	Chain	Res	Type
1	P	370	GLN
1	P	377	LEU
1	P	380	LYS
1	P	394	ASN
1	P	425	ARG
1	P	437	SER
1	P	448	ARG
1	P	473	ARG
1	P	477	SER
1	P	494	THR
1	P	519	SER
1	P	521	LYS
1	P	545	SER
1	P	546	LEU
1	P	571	VAL
1	P	580	GLU
1	P	581	ASN
1	P	586	SER
1	P	599	ARG
1	P	600	GLN
1	P	630	ARG
1	P	635	THR
1	P	645	ARG
1	P	651	LEU
1	P	655	MET
1	P	661	LYS
1	P	672	VAL
1	P	675	GLN
1	P	681	GLU
1	P	684	GLU
1	P	687	GLN
1	P	690	SER
1	P	719	GLN
1	P	721	ARG
1	P	730	LEU
1	P	734	SER
1	P	743	SER
1	P	755	ARG
1	P	761	GLN
1	P	768	MET
1	P	773	LYS
1	P	774	LYS

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Mol	Chain	Res	Type
1	P	777	LEU
1	P	778	THR
1	P	781	ARG
1	P	799	THR
1	P	809	ARG
1	P	822	LEU
1	P	824	GLN
1	P	829	THR
1	P	832	ASP
1	P	843	GLN
1	P	857	ARG
1	P	867	THR
1	P	881	ARG
1	P	893	GLU
1	P	903[A]	GLN
1	P	903[B]	GLN
1	P	917	ARG
1	P	938	ARG
1	P	952	ARG
1	P	956	GLN
1	P	986	ILE
1	P	1006	GLU
1	P	1017	GLN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (291) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	89	ASN
1	A	102	ASN
1	A	128	ASN
1	A	221	GLN
1	A	226	HIS
1	A	316	HIS
1	A	394	ASN
1	A	467	ASN
1	A	597	ASN
1	A	604	ASN
1	A	624	GLN
1	A	634	GLN
1	A	718	GLN
1	A	739	HIS
1	A	761	GLN

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Mol	Chain	Res	Type
1	A	949	HIS
1	A	990	HIS
1	A	1017	GLN
1	B	89	ASN
1	B	102	ASN
1	B	128	ASN
1	B	221	GLN
1	B	226	HIS
1	B	316	HIS
1	B	394	ASN
1	B	467	ASN
1	B	597	ASN
1	B	604	ASN
1	B	624	GLN
1	B	634	GLN
1	B	718	GLN
1	B	739	HIS
1	B	761	GLN
1	B	949	HIS
1	B	990	HIS
1	B	1017	GLN
1	C	89	ASN
1	C	102	ASN
1	C	128	ASN
1	C	221	GLN
1	C	226	HIS
1	C	316	HIS
1	C	363	HIS
1	C	394	ASN
1	C	467	ASN
1	C	597	ASN
1	C	604	ASN
1	C	624	GLN
1	C	634	GLN
1	C	718	GLN
1	C	739	HIS
1	C	761	GLN
1	C	949	HIS
1	C	990	HIS
1	C	1017	GLN
1	D	89	ASN
1	D	102	ASN

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Mol	Chain	Res	Type
1	D	128	ASN
1	D	221	GLN
1	D	226	HIS
1	D	316	HIS
1	D	394	ASN
1	D	467	ASN
1	D	597	ASN
1	D	604	ASN
1	D	624	GLN
1	D	634	GLN
1	D	718	GLN
1	D	739	HIS
1	D	761	GLN
1	D	949	HIS
1	D	990	HIS
1	D	1017	GLN
1	E	89	ASN
1	E	102	ASN
1	E	128	ASN
1	E	221	GLN
1	E	226	HIS
1	E	316	HIS
1	E	394	ASN
1	E	467	ASN
1	E	597	ASN
1	E	604	ASN
1	E	624	GLN
1	E	634	GLN
1	E	718	GLN
1	E	739	HIS
1	E	761	GLN
1	E	949	HIS
1	E	990	HIS
1	E	1017	GLN
1	F	89	ASN
1	F	102	ASN
1	F	128	ASN
1	F	221	GLN
1	F	226	HIS
1	F	316	HIS
1	F	394	ASN
1	F	467	ASN

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Mol	Chain	Res	Type
1	F	597	ASN
1	F	604	ASN
1	F	624	GLN
1	F	634	GLN
1	F	718	GLN
1	F	739	HIS
1	F	761	GLN
1	F	949	HIS
1	F	990	HIS
1	F	1017	GLN
1	G	89	ASN
1	G	102	ASN
1	G	128	ASN
1	G	221	GLN
1	G	226	HIS
1	G	316	HIS
1	G	394	ASN
1	G	467	ASN
1	G	597	ASN
1	G	604	ASN
1	G	624	GLN
1	G	634	GLN
1	G	718	GLN
1	G	761	GLN
1	G	949	HIS
1	G	990	HIS
1	G	1017	GLN
1	H	89	ASN
1	H	102	ASN
1	H	128	ASN
1	H	221	GLN
1	H	226	HIS
1	H	316	HIS
1	H	363	HIS
1	H	394	ASN
1	H	467	ASN
1	H	597	ASN
1	H	604	ASN
1	H	624	GLN
1	H	634	GLN
1	H	718	GLN
1	H	739	HIS

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Mol	Chain	Res	Type
1	H	761	GLN
1	H	949	HIS
1	H	990	HIS
1	H	1017	GLN
1	I	89	ASN
1	I	102	ASN
1	I	128	ASN
1	I	221	GLN
1	I	226	HIS
1	I	316	HIS
1	I	363	HIS
1	I	394	ASN
1	I	467	ASN
1	I	597	ASN
1	I	604	ASN
1	I	624	GLN
1	I	634	GLN
1	I	718	GLN
1	I	739	HIS
1	I	761	GLN
1	I	949	HIS
1	I	990	HIS
1	I	1017	GLN
1	J	89	ASN
1	J	102	ASN
1	J	128	ASN
1	J	221	GLN
1	J	226	HIS
1	J	316	HIS
1	J	394	ASN
1	J	467	ASN
1	J	597	ASN
1	J	604	ASN
1	J	624	GLN
1	J	634	GLN
1	J	718	GLN
1	J	739	HIS
1	J	761	GLN
1	J	949	HIS
1	J	990	HIS
1	J	1017	GLN
1	K	89	ASN

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Mol	Chain	Res	Type
1	K	102	ASN
1	K	128	ASN
1	K	221	GLN
1	K	226	HIS
1	K	316	HIS
1	K	394	ASN
1	K	467	ASN
1	K	597	ASN
1	K	604	ASN
1	K	624	GLN
1	K	634	GLN
1	K	718	GLN
1	K	739	HIS
1	K	761	GLN
1	K	949	HIS
1	K	990	HIS
1	K	1017	GLN
1	L	89	ASN
1	L	102	ASN
1	L	128	ASN
1	L	221	GLN
1	L	226	HIS
1	L	316	HIS
1	L	394	ASN
1	L	467	ASN
1	L	597	ASN
1	L	604	ASN
1	L	624	GLN
1	L	634	GLN
1	L	718	GLN
1	L	739	HIS
1	L	761	GLN
1	L	949	HIS
1	L	990	HIS
1	L	1017	GLN
1	M	89	ASN
1	M	102	ASN
1	M	128	ASN
1	M	221	GLN
1	M	226	HIS
1	M	316	HIS
1	M	394	ASN

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Mol	Chain	Res	Type
1	M	467	ASN
1	M	597	ASN
1	M	604	ASN
1	M	624	GLN
1	M	634	GLN
1	M	718	GLN
1	M	739	HIS
1	M	761	GLN
1	M	949	HIS
1	M	990	HIS
1	M	1017	GLN
1	N	89	ASN
1	N	102	ASN
1	N	128	ASN
1	N	221	GLN
1	N	226	HIS
1	N	316	HIS
1	N	394	ASN
1	N	467	ASN
1	N	597	ASN
1	N	604	ASN
1	N	624	GLN
1	N	634	GLN
1	N	718	GLN
1	N	739	HIS
1	N	761	GLN
1	N	949	HIS
1	N	990	HIS
1	N	1017	GLN
1	O	89	ASN
1	O	102	ASN
1	O	128	ASN
1	O	221	GLN
1	O	226	HIS
1	O	316	HIS
1	O	363	HIS
1	O	394	ASN
1	O	467	ASN
1	O	597	ASN
1	O	604	ASN
1	O	624	GLN
1	O	634	GLN

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Mol	Chain	Res	Type
1	O	718	GLN
1	O	739	HIS
1	O	761	GLN
1	O	949	HIS
1	O	990	HIS
1	O	1017	GLN
1	P	89	ASN
1	P	102	ASN
1	P	128	ASN
1	P	221	GLN
1	P	226	HIS
1	P	316	HIS
1	P	394	ASN
1	P	467	ASN
1	P	597	ASN
1	P	604	ASN
1	P	624	GLN
1	P	634	GLN
1	P	718	GLN
1	P	739	HIS
1	P	761	GLN
1	P	949	HIS
1	P	990	HIS
1	P	1017	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	CME	A	1021	1	9,9,10	1.00	0	6,9,11	1.47	1 (16%)
1	CME	A	748	1	9,9,10	1.12	1 (11%)	6,9,11	1.56	1 (16%)
1	CME	A	914	1	9,9,10	0.94	0	6,9,11	1.68	1 (16%)
1	CME	B	1021	1	9,9,10	1.00	0	6,9,11	1.47	1 (16%)
1	CME	B	748	1	9,9,10	1.12	1 (11%)	6,9,11	1.56	1 (16%)
1	CME	B	914	1	9,9,10	0.94	0	6,9,11	1.67	1 (16%)
1	CME	C	1021	1	9,9,10	0.99	0	6,9,11	1.48	1 (16%)
1	CME	C	748	1	9,9,10	1.12	1 (11%)	6,9,11	1.56	1 (16%)
1	CME	C	914	1	9,9,10	0.93	0	6,9,11	1.67	1 (16%)
1	CME	D	1021	1	9,9,10	0.99	0	6,9,11	1.48	1 (16%)
1	CME	D	748	1	9,9,10	1.11	1 (11%)	6,9,11	1.56	1 (16%)
1	CME	D	914	1	9,9,10	0.93	0	6,9,11	1.68	1 (16%)
1	CME	E	1021	1	9,9,10	1.00	0	6,9,11	1.47	1 (16%)
1	CME	E	748	1	9,9,10	1.11	1 (11%)	6,9,11	1.56	1 (16%)
1	CME	E	914	1	9,9,10	0.93	0	6,9,11	1.68	1 (16%)
1	CME	F	1021	1	9,9,10	1.01	0	6,9,11	1.47	1 (16%)
1	CME	F	748	1	9,9,10	1.12	1 (11%)	6,9,11	1.55	1 (16%)
1	CME	F	914	1	9,9,10	0.94	0	6,9,11	1.67	1 (16%)
1	CME	G	1021	1	9,9,10	0.99	0	6,9,11	1.47	1 (16%)
1	CME	G	748	1	9,9,10	1.12	1 (11%)	6,9,11	1.56	1 (16%)
1	CME	G	914	1	9,9,10	0.93	0	6,9,11	1.67	1 (16%)
1	CME	H	1021	1	9,9,10	1.00	0	6,9,11	1.47	1 (16%)
1	CME	H	748	1	9,9,10	1.12	1 (11%)	6,9,11	1.56	1 (16%)
1	CME	H	914	1	9,9,10	0.94	0	6,9,11	1.68	1 (16%)
1	CME	I	1021	1	9,9,10	1.00	0	6,9,11	1.48	1 (16%)
1	CME	I	748	1	9,9,10	1.11	1 (11%)	6,9,11	1.56	1 (16%)
1	CME	I	914	1	9,9,10	0.93	0	6,9,11	1.68	1 (16%)
1	CME	J	1021	1	9,9,10	1.00	0	6,9,11	1.48	1 (16%)
1	CME	J	748	1	9,9,10	1.13	1 (11%)	6,9,11	1.55	1 (16%)
1	CME	J	914	1	9,9,10	0.93	0	6,9,11	1.68	1 (16%)
1	CME	K	1021	1	9,9,10	1.00	0	6,9,11	1.47	1 (16%)
1	CME	K	748	1	9,9,10	1.12	1 (11%)	6,9,11	1.56	1 (16%)
1	CME	K	914	1	9,9,10	0.94	0	6,9,11	1.68	1 (16%)
1	CME	L	1021	1	9,9,10	0.99	0	6,9,11	1.48	1 (16%)
1	CME	L	748	1	9,9,10	1.12	1 (11%)	6,9,11	1.56	1 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	CME	L	914	1	9,9,10	0.93	0	6,9,11	1.68	1 (16%)
1	CME	M	1021	1	9,9,10	1.00	0	6,9,11	1.47	1 (16%)
1	CME	M	748	1	9,9,10	1.12	1 (11%)	6,9,11	1.56	1 (16%)
1	CME	M	914	1	9,9,10	0.94	0	6,9,11	1.68	1 (16%)
1	CME	N	1021	1	9,9,10	1.00	0	6,9,11	1.47	1 (16%)
1	CME	N	748	1	9,9,10	1.13	1 (11%)	6,9,11	1.56	1 (16%)
1	CME	N	914	1	9,9,10	0.94	0	6,9,11	1.68	1 (16%)
1	CME	O	1021	1	9,9,10	1.00	0	6,9,11	1.47	1 (16%)
1	CME	O	748	1	9,9,10	1.13	1 (11%)	6,9,11	1.55	1 (16%)
1	CME	O	914	1	9,9,10	0.94	0	6,9,11	1.68	1 (16%)
1	CME	P	1021	1	9,9,10	1.01	0	6,9,11	1.47	1 (16%)
1	CME	P	748	1	9,9,10	1.11	1 (11%)	6,9,11	1.56	1 (16%)
1	CME	P	914	1	9,9,10	0.94	0	6,9,11	1.68	1 (16%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	CME	A	1021	1	-	0/5/8/10	0/0/0/0
1	CME	A	748	1	-	0/5/8/10	0/0/0/0
1	CME	A	914	1	-	0/5/8/10	0/0/0/0
1	CME	B	1021	1	-	0/5/8/10	0/0/0/0
1	CME	B	748	1	-	0/5/8/10	0/0/0/0
1	CME	B	914	1	-	0/5/8/10	0/0/0/0
1	CME	C	1021	1	-	0/5/8/10	0/0/0/0
1	CME	C	748	1	-	0/5/8/10	0/0/0/0
1	CME	C	914	1	-	0/5/8/10	0/0/0/0
1	CME	D	1021	1	-	0/5/8/10	0/0/0/0
1	CME	D	748	1	-	0/5/8/10	0/0/0/0
1	CME	D	914	1	-	0/5/8/10	0/0/0/0
1	CME	E	1021	1	-	0/5/8/10	0/0/0/0
1	CME	E	748	1	-	0/5/8/10	0/0/0/0
1	CME	E	914	1	-	0/5/8/10	0/0/0/0
1	CME	F	1021	1	-	0/5/8/10	0/0/0/0
1	CME	F	748	1	-	0/5/8/10	0/0/0/0
1	CME	F	914	1	-	0/5/8/10	0/0/0/0
1	CME	G	1021	1	-	0/5/8/10	0/0/0/0
1	CME	G	748	1	-	0/5/8/10	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	CME	G	914	1	-	0/5/8/10	0/0/0/0
1	CME	H	1021	1	-	0/5/8/10	0/0/0/0
1	CME	H	748	1	-	0/5/8/10	0/0/0/0
1	CME	H	914	1	-	0/5/8/10	0/0/0/0
1	CME	I	1021	1	-	0/5/8/10	0/0/0/0
1	CME	I	748	1	-	0/5/8/10	0/0/0/0
1	CME	I	914	1	-	0/5/8/10	0/0/0/0
1	CME	J	1021	1	-	0/5/8/10	0/0/0/0
1	CME	J	748	1	-	0/5/8/10	0/0/0/0
1	CME	J	914	1	-	0/5/8/10	0/0/0/0
1	CME	K	1021	1	-	0/5/8/10	0/0/0/0
1	CME	K	748	1	-	0/5/8/10	0/0/0/0
1	CME	K	914	1	-	0/5/8/10	0/0/0/0
1	CME	L	1021	1	-	0/5/8/10	0/0/0/0
1	CME	L	748	1	-	0/5/8/10	0/0/0/0
1	CME	L	914	1	-	0/5/8/10	0/0/0/0
1	CME	M	1021	1	-	0/5/8/10	0/0/0/0
1	CME	M	748	1	-	0/5/8/10	0/0/0/0
1	CME	M	914	1	-	0/5/8/10	0/0/0/0
1	CME	N	1021	1	-	0/5/8/10	0/0/0/0
1	CME	N	748	1	-	0/5/8/10	0/0/0/0
1	CME	N	914	1	-	0/5/8/10	0/0/0/0
1	CME	O	1021	1	-	0/5/8/10	0/0/0/0
1	CME	O	748	1	-	0/5/8/10	0/0/0/0
1	CME	O	914	1	-	0/5/8/10	0/0/0/0
1	CME	P	1021	1	-	0/5/8/10	0/0/0/0
1	CME	P	748	1	-	0/5/8/10	0/0/0/0
1	CME	P	914	1	-	0/5/8/10	0/0/0/0

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	748	CME	CA-C	-2.35	1.47	1.50
1	O	748	CME	CA-C	-2.35	1.47	1.50
1	J	748	CME	CA-C	-2.34	1.47	1.50
1	M	748	CME	CA-C	-2.34	1.47	1.50
1	B	748	CME	CA-C	-2.33	1.47	1.50
1	H	748	CME	CA-C	-2.32	1.47	1.50
1	F	748	CME	CA-C	-2.31	1.47	1.50
1	C	748	CME	CA-C	-2.30	1.47	1.50
1	A	748	CME	CA-C	-2.30	1.47	1.50
1	K	748	CME	CA-C	-2.30	1.47	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	748	CME	CA-C	-2.29	1.47	1.50
1	L	748	CME	CA-C	-2.29	1.47	1.50
1	D	748	CME	CA-C	-2.29	1.47	1.50
1	I	748	CME	CA-C	-2.28	1.47	1.50
1	P	748	CME	CA-C	-2.27	1.47	1.50
1	E	748	CME	CA-C	-2.27	1.47	1.50

All (48) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	914	CME	CB-SG-SD	-3.61	96.80	103.83
1	K	914	CME	CB-SG-SD	-3.61	96.81	103.83
1	I	914	CME	CB-SG-SD	-3.61	96.81	103.83
1	H	914	CME	CB-SG-SD	-3.61	96.81	103.83
1	N	914	CME	CB-SG-SD	-3.61	96.81	103.83
1	A	914	CME	CB-SG-SD	-3.61	96.82	103.83
1	E	914	CME	CB-SG-SD	-3.60	96.82	103.83
1	J	914	CME	CB-SG-SD	-3.60	96.83	103.83
1	P	914	CME	CB-SG-SD	-3.60	96.83	103.83
1	M	914	CME	CB-SG-SD	-3.60	96.83	103.83
1	O	914	CME	CB-SG-SD	-3.60	96.83	103.83
1	F	914	CME	CB-SG-SD	-3.59	96.84	103.83
1	B	914	CME	CB-SG-SD	-3.59	96.84	103.83
1	L	914	CME	CB-SG-SD	-3.59	96.84	103.83
1	C	914	CME	CB-SG-SD	-3.59	96.85	103.83
1	G	914	CME	CB-SG-SD	-3.59	96.85	103.83
1	M	748	CME	CB-SG-SD	-2.86	98.26	103.83
1	E	748	CME	CB-SG-SD	-2.86	98.27	103.83
1	P	748	CME	CB-SG-SD	-2.86	98.28	103.83
1	L	748	CME	CB-SG-SD	-2.85	98.28	103.83
1	B	748	CME	CB-SG-SD	-2.85	98.28	103.83
1	A	748	CME	CB-SG-SD	-2.85	98.28	103.83
1	D	748	CME	CB-SG-SD	-2.85	98.29	103.83
1	K	748	CME	CB-SG-SD	-2.85	98.29	103.83
1	I	748	CME	CB-SG-SD	-2.85	98.29	103.83
1	H	748	CME	CB-SG-SD	-2.85	98.29	103.83
1	G	748	CME	CB-SG-SD	-2.85	98.30	103.83
1	O	748	CME	CB-SG-SD	-2.84	98.30	103.83
1	C	748	CME	CB-SG-SD	-2.84	98.30	103.83
1	J	748	CME	CB-SG-SD	-2.84	98.30	103.83
1	F	748	CME	CB-SG-SD	-2.84	98.30	103.83
1	N	748	CME	CB-SG-SD	-2.84	98.31	103.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	1021	CME	CB-SG-SD	-2.57	98.84	103.83
1	J	1021	CME	CB-SG-SD	-2.56	98.84	103.83
1	D	1021	CME	CB-SG-SD	-2.56	98.85	103.83
1	H	1021	CME	CB-SG-SD	-2.56	98.85	103.83
1	C	1021	CME	CB-SG-SD	-2.56	98.85	103.83
1	K	1021	CME	CB-SG-SD	-2.56	98.86	103.83
1	L	1021	CME	CB-SG-SD	-2.56	98.86	103.83
1	G	1021	CME	CB-SG-SD	-2.56	98.86	103.83
1	N	1021	CME	CB-SG-SD	-2.56	98.86	103.83
1	B	1021	CME	CB-SG-SD	-2.55	98.86	103.83
1	P	1021	CME	CB-SG-SD	-2.55	98.87	103.83
1	A	1021	CME	CB-SG-SD	-2.55	98.87	103.83
1	E	1021	CME	CB-SG-SD	-2.55	98.88	103.83
1	M	1021	CME	CB-SG-SD	-2.54	98.88	103.83
1	O	1021	CME	CB-SG-SD	-2.54	98.89	103.83
1	F	1021	CME	CB-SG-SD	-2.54	98.89	103.83

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

42 monomers are involved in 170 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	1021	CME	6	0
1	A	748	CME	4	0
1	B	1021	CME	6	0
1	B	748	CME	4	0
1	C	1021	CME	6	0
1	C	748	CME	4	0
1	C	914	CME	1	0
1	D	1021	CME	6	0
1	D	748	CME	4	0
1	D	914	CME	1	0
1	E	1021	CME	6	0
1	E	748	CME	4	0
1	E	914	CME	1	0
1	F	1021	CME	6	0
1	F	748	CME	4	0
1	F	914	CME	1	0
1	G	1021	CME	6	0
1	G	748	CME	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	G	914	CME	1	0
1	H	1021	CME	6	0
1	H	748	CME	4	0
1	I	1021	CME	6	0
1	I	748	CME	4	0
1	J	1021	CME	6	0
1	J	748	CME	4	0
1	K	1021	CME	6	0
1	K	748	CME	4	0
1	K	914	CME	1	0
1	L	1021	CME	6	0
1	L	748	CME	4	0
1	M	1021	CME	6	0
1	M	748	CME	4	0
1	M	914	CME	1	0
1	N	1021	CME	6	0
1	N	748	CME	4	0
1	N	914	CME	1	0
1	O	1021	CME	6	0
1	O	748	CME	4	0
1	O	914	CME	1	0
1	P	1021	CME	6	0
1	P	748	CME	4	0
1	P	914	CME	1	0

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 80 ligands modelled in this entry, 64 are monoatomic - leaving 16 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	2FG	A	2001	1,4	11,11,12	1.30	0	8,15,17	1.16	1 (12%)
2	2FG	B	2001	1,4	11,11,12	1.30	1 (9%)	8,15,17	1.15	1 (12%)
2	2FG	C	2001	1,4	11,11,12	1.29	0	8,15,17	1.16	1 (12%)
2	2FG	D	2001	1,4	11,11,12	1.31	1 (9%)	8,15,17	1.16	1 (12%)
2	2FG	E	2001	1,4	11,11,12	1.30	1 (9%)	8,15,17	1.16	1 (12%)
2	2FG	F	2001	1,4	11,11,12	1.31	0	8,15,17	1.15	1 (12%)
2	2FG	G	2001	1,4	11,11,12	1.28	0	8,15,17	1.16	1 (12%)
2	2FG	H	2001	1,4	11,11,12	1.29	0	8,15,17	1.15	1 (12%)
2	2FG	I	2001	1,4	11,11,12	1.30	0	8,15,17	1.15	1 (12%)
2	2FG	J	2001	1,4	11,11,12	1.30	1 (9%)	8,15,17	1.16	1 (12%)
2	2FG	K	2001	1,4	11,11,12	1.28	0	8,15,17	1.16	1 (12%)
2	2FG	L	2001	1,4	11,11,12	1.30	0	8,15,17	1.16	1 (12%)
2	2FG	M	2001	1,4	11,11,12	1.30	0	8,15,17	1.14	1 (12%)
2	2FG	N	2001	1,4	11,11,12	1.29	1 (9%)	8,15,17	1.15	1 (12%)
2	2FG	O	2001	1,4	11,11,12	1.29	0	8,15,17	1.15	1 (12%)
2	2FG	P	2001	1,4	11,11,12	1.30	1 (9%)	8,15,17	1.16	1 (12%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	2FG	A	2001	1,4	1/1/4/5	0/2/19/22	0/1/1/1
2	2FG	B	2001	1,4	1/1/4/5	0/2/19/22	0/1/1/1
2	2FG	C	2001	1,4	1/1/4/5	0/2/19/22	0/1/1/1
2	2FG	D	2001	1,4	1/1/4/5	0/2/19/22	0/1/1/1
2	2FG	E	2001	1,4	1/1/4/5	0/2/19/22	0/1/1/1
2	2FG	F	2001	1,4	1/1/4/5	0/2/19/22	0/1/1/1
2	2FG	G	2001	1,4	1/1/4/5	0/2/19/22	0/1/1/1
2	2FG	H	2001	1,4	1/1/4/5	0/2/19/22	0/1/1/1
2	2FG	I	2001	1,4	1/1/4/5	0/2/19/22	0/1/1/1
2	2FG	J	2001	1,4	1/1/4/5	0/2/19/22	0/1/1/1
2	2FG	K	2001	1,4	1/1/4/5	0/2/19/22	0/1/1/1
2	2FG	L	2001	1,4	1/1/4/5	0/2/19/22	0/1/1/1
2	2FG	M	2001	1,4	1/1/4/5	0/2/19/22	0/1/1/1
2	2FG	N	2001	1,4	1/1/4/5	0/2/19/22	0/1/1/1
2	2FG	O	2001	1,4	1/1/4/5	0/2/19/22	0/1/1/1
2	2FG	P	2001	1,4	1/1/4/5	0/2/19/22	0/1/1/1

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	2001	2FG	C4-C5	2.01	1.57	1.53
2	N	2001	2FG	C4-C5	2.01	1.57	1.53
2	E	2001	2FG	C4-C5	2.01	1.57	1.53
2	B	2001	2FG	C2-C3	2.02	1.53	1.51
2	D	2001	2FG	C2-C3	2.02	1.53	1.51
2	P	2001	2FG	C2-C3	2.06	1.53	1.51

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2001	2FG	C1-O5-C5	2.18	115.17	112.17
2	M	2001	2FG	C1-O5-C5	2.19	115.18	112.17
2	I	2001	2FG	C1-O5-C5	2.20	115.20	112.17
2	N	2001	2FG	C1-O5-C5	2.20	115.20	112.17
2	H	2001	2FG	C1-O5-C5	2.20	115.20	112.17
2	L	2001	2FG	C1-O5-C5	2.21	115.21	112.17
2	O	2001	2FG	C1-O5-C5	2.21	115.21	112.17
2	C	2001	2FG	C1-O5-C5	2.21	115.22	112.17
2	K	2001	2FG	C1-O5-C5	2.22	115.22	112.17
2	A	2001	2FG	C1-O5-C5	2.22	115.22	112.17
2	F	2001	2FG	C1-O5-C5	2.22	115.23	112.17
2	P	2001	2FG	C1-O5-C5	2.23	115.23	112.17
2	G	2001	2FG	C1-O5-C5	2.23	115.24	112.17
2	D	2001	2FG	C1-O5-C5	2.23	115.24	112.17
2	E	2001	2FG	C1-O5-C5	2.23	115.24	112.17
2	J	2001	2FG	C1-O5-C5	2.24	115.26	112.17

All (16) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	G	2001	2FG	C1
2	C	2001	2FG	C1
2	D	2001	2FG	C1
2	B	2001	2FG	C1
2	K	2001	2FG	C1
2	H	2001	2FG	C1
2	O	2001	2FG	C1
2	P	2001	2FG	C1
2	E	2001	2FG	C1
2	F	2001	2FG	C1
2	L	2001	2FG	C1

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Mol	Chain	Res	Type	Atom
2	M	2001	2FG	C1
2	N	2001	2FG	C1
2	J	2001	2FG	C1
2	A	2001	2FG	C1
2	I	2001	2FG	C1

There are no torsion outliers.

There are no ring outliers.

16 monomers are involved in 32 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	2001	2FG	2	0
2	B	2001	2FG	2	0
2	C	2001	2FG	2	0
2	D	2001	2FG	2	0
2	E	2001	2FG	2	0
2	F	2001	2FG	2	0
2	G	2001	2FG	2	0
2	H	2001	2FG	2	0
2	I	2001	2FG	2	0
2	J	2001	2FG	2	0
2	K	2001	2FG	2	0
2	L	2001	2FG	2	0
2	M	2001	2FG	2	0
2	N	2001	2FG	2	0
2	O	2001	2FG	2	0
2	P	2001	2FG	2	0

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 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	1018/1023 (99%)	-0.42	9 (0%) 84 81	9, 32, 74, 100	3 (0%)
1	B	1018/1023 (99%)	-0.35	6 (0%) 89 88	7, 31, 72, 99	3 (0%)
1	C	1018/1023 (99%)	-0.39	0 100 100	6, 29, 70, 97	3 (0%)
1	D	1018/1023 (99%)	-0.28	10 (0%) 82 79	11, 35, 76, 100	3 (0%)
1	E	1018/1023 (99%)	-0.04	25 (2%) 58 50	23, 47, 84, 100	3 (0%)
1	F	1018/1023 (99%)	-0.41	4 (0%) 92 91	9, 33, 74, 100	3 (0%)
1	G	1018/1023 (99%)	-0.22	10 (0%) 82 79	13, 37, 77, 100	3 (0%)
1	H	1018/1023 (99%)	-0.10	21 (2%) 64 58	21, 45, 82, 100	3 (0%)
1	I	1018/1023 (99%)	-0.29	13 (1%) 77 73	17, 40, 80, 100	3 (0%)
1	J	1018/1023 (99%)	-0.42	3 (0%) 93 93	15, 38, 78, 100	3 (0%)
1	K	1018/1023 (99%)	-0.13	24 (2%) 59 52	25, 49, 85, 100	3 (0%)
1	L	1018/1023 (99%)	0.01	25 (2%) 58 50	25, 48, 85, 100	3 (0%)
1	M	1018/1023 (99%)	0.29	55 (5%) 26 20	27, 51, 86, 100	3 (0%)
1	N	1018/1023 (99%)	-0.33	7 (0%) 87 85	17, 40, 80, 100	3 (0%)
1	O	1018/1023 (99%)	-0.21	16 (1%) 72 67	17, 41, 80, 100	3 (0%)
1	P	1018/1023 (99%)	0.54	84 (8%) 12 8	32, 56, 90, 100	3 (0%)
All	All	16288/16368 (99%)	-0.17	312 (1%) 67 61	6, 42, 81, 100	48 (0%)

All (312) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	M	79	PRO	8.5
1	G	735	HIS	7.0
1	P	364	GLY	6.3
1	P	68	ALA	5.9
1	L	735	HIS	5.8

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Mol	Chain	Res	Type	RSRZ
1	L	800	ARG	5.8
1	O	735	HIS	5.6
1	K	800	ARG	5.5
1	A	735	HIS	5.5
1	H	180	GLY	5.4
1	D	799	THR	5.3
1	P	732	ALA	5.2
1	E	131	GLU	5.2
1	P	70	PRO	5.2
1	P	55	ASN	5.1
1	D	801	ILE	5.0
1	M	162	GLY	4.9
1	P	81	ALA	4.8
1	A	682	LEU	4.8
1	P	178	ARG	4.8
1	P	739	HIS	4.8
1	P	160	GLY	4.8
1	P	733	ALA	4.7
1	A	582	GLY	4.7
1	D	798	ALA	4.5
1	K	731	PRO	4.4
1	E	79	PRO	4.4
1	P	143	PHE	4.4
1	P	360	HIS	4.3
1	M	10	VAL	4.3
1	L	370	GLN	4.3
1	P	133	TRP	4.3
1	P	258	VAL	4.3
1	K	580	GLU	4.3
1	M	596	PRO	4.2
1	I	580	GLU	4.2
1	D	580	GLU	4.2
1	P	149	ALA	4.2
1	G	734	SER	4.1
1	L	173	LEU	4.0
1	N	135	GLN	4.0
1	P	131	GLU	4.0
1	J	581	ASN	4.0
1	L	739	HIS	4.0
1	L	131	GLU	4.0
1	H	133	TRP	3.9
1	M	599	ARG	3.9

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Mol	Chain	Res	Type	RSRZ
1	E	81	ALA	3.9
1	P	174	SER	3.9
1	P	684	GLU	3.9
1	P	65	ALA	3.8
1	G	732	ALA	3.8
1	K	735	HIS	3.8
1	P	34	ALA	3.8
1	M	320	GLY	3.8
1	L	81	ALA	3.8
1	M	81	ALA	3.8
1	P	683	PRO	3.8
1	M	76	CYS	3.7
1	M	160	GLY	3.7
1	A	580	GLU	3.7
1	M	59	ARG	3.7
1	E	321	THR	3.7
1	F	581	ASN	3.7
1	K	320	GLY	3.7
1	A	131	GLU	3.7
1	L	687	GLN	3.7
1	P	735	HIS	3.6
1	D	731	PRO	3.6
1	M	177	LEU	3.6
1	P	580	GLU	3.6
1	K	732	ALA	3.5
1	D	180	GLY	3.5
1	M	364	GLY	3.5
1	K	581	ASN	3.5
1	P	264	GLU	3.5
1	L	133	TRP	3.5
1	K	733	ALA	3.5
1	I	581	ASN	3.4
1	P	42	ALA	3.4
1	L	79	PRO	3.4
1	H	735	HIS	3.4
1	A	581	ASN	3.4
1	L	732	ALA	3.4
1	P	39	SER	3.4
1	M	128	ASN	3.4
1	P	579	ASP	3.4
1	P	595	THR	3.3
1	G	733	ALA	3.3

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Mol	Chain	Res	Type	RSRZ
1	D	800	ARG	3.3
1	E	581	ASN	3.3
1	K	730	LEU	3.3
1	M	93	HIS	3.3
1	H	75	GLU	3.3
1	M	73	TRP	3.3
1	L	581	ASN	3.3
1	M	797	GLU	3.2
1	K	734	SER	3.2
1	P	176	PHE	3.2
1	A	734	SER	3.2
1	H	128	ASN	3.2
1	P	180	GLY	3.2
1	D	796	SER	3.2
1	O	682	LEU	3.2
1	P	813	ALA	3.1
1	M	84	VAL	3.1
1	L	733	ALA	3.1
1	P	581	ASN	3.1
1	P	585	TRP	3.1
1	M	60	PHE	3.1
1	M	11	LEU	3.1
1	P	362	LEU	3.1
1	P	75	GLU	3.0
1	M	80	GLU	3.0
1	M	800	ARG	3.0
1	E	132	SER	3.0
1	M	78	LEU	3.0
1	E	55	ASN	3.0
1	I	582	GLY	3.0
1	H	131	GLU	3.0
1	P	73	TRP	3.0
1	M	581	ASN	2.9
1	E	143	PHE	2.9
1	M	246	MET	2.9
1	D	581	ASN	2.9
1	P	771	GLY	2.9
1	E	249	GLU	2.9
1	G	580	GLU	2.9
1	N	80	GLU	2.9
1	P	115	PRO	2.9
1	O	263	GLY	2.9

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Mol	Chain	Res	Type	RSRZ
1	M	152	LEU	2.9
1	P	270	GLY	2.9
1	E	158	TRP	2.9
1	M	687	GLN	2.9
1	O	264	GLU	2.9
1	B	687	GLN	2.8
1	I	801	ILE	2.8
1	P	209	PHE	2.8
1	P	686	PRO	2.8
1	G	664	ALA	2.8
1	O	666	GLY	2.8
1	H	800	ARG	2.8
1	K	685	LEU	2.8
1	M	582	GLY	2.8
1	B	735	HIS	2.8
1	M	180	GLY	2.8
1	K	728	VAL	2.8
1	P	218	PRO	2.8
1	L	38	ASN	2.8
1	K	686	PRO	2.7
1	M	978	ALA	2.7
1	P	584	PRO	2.7
1	E	76	CYS	2.7
1	M	289	VAL	2.7
1	G	729	THR	2.7
1	H	733	ALA	2.7
1	H	39	SER	2.7
1	K	653[A]	HIS	2.7
1	E	596	PRO	2.7
1	I	81	ALA	2.7
1	L	130	ASP	2.7
1	M	798	ALA	2.7
1	J	800	ARG	2.7
1	P	185	ALA	2.7
1	P	177	LEU	2.7
1	H	580	GLU	2.7
1	K	136	GLU	2.7
1	H	798	ALA	2.6
1	P	137	GLY	2.6
1	O	668	VAL	2.6
1	M	362	LEU	2.6
1	E	75	GLU	2.6

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Mol	Chain	Res	Type	RSRZ
1	I	735	HIS	2.6
1	O	265	THR	2.6
1	M	75	GLU	2.6
1	O	1023	LYS	2.6
1	K	583	ASN	2.6
1	O	646	HIS	2.6
1	M	7	LEU	2.6
1	M	16	TRP	2.6
1	P	191	TRP	2.6
1	I	800	ARG	2.6
1	N	800	ARG	2.6
1	P	173	LEU	2.6
1	E	796	SER	2.6
1	P	599	ARG	2.6
1	M	65	ALA	2.6
1	M	149	ALA	2.6
1	P	128	ASN	2.6
1	P	158	TRP	2.6
1	F	668	VAL	2.6
1	N	131	GLU	2.6
1	I	79	PRO	2.5
1	O	46	ARG	2.5
1	P	734	SER	2.5
1	G	249	GLU	2.5
1	P	47	PRO	2.5
1	L	132	SER	2.5
1	P	92	MET	2.5
1	N	684	GLU	2.5
1	K	321	THR	2.5
1	M	82	ASP	2.5
1	P	36	TRP	2.5
1	L	177	LEU	2.5
1	P	86	VAL	2.5
1	G	135	GLN	2.5
1	H	4	THR	2.5
1	B	180	GLY	2.5
1	P	363	HIS	2.5
1	G	131	GLU	2.5
1	M	6	SER	2.5
1	M	109	VAL	2.5
1	P	142	ILE	2.5
1	H	84	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
1	P	293	LEU	2.4
1	L	36	TRP	2.4
1	E	77	ASP	2.4
1	K	745	MET	2.4
1	M	361	PRO	2.4
1	E	173	LEU	2.4
1	E	583	ASN	2.4
1	L	50	GLN	2.4
1	P	664	ALA	2.4
1	K	801	ILE	2.4
1	P	35	SER	2.4
1	P	261	TRP	2.4
1	P	313	VAL	2.4
1	F	800	ARG	2.4
1	H	115	PRO	2.4
1	M	735	HIS	2.4
1	I	798	ALA	2.4
1	P	778	THR	2.4
1	P	800	ARG	2.4
1	P	361	PRO	2.4
1	L	682	LEU	2.4
1	H	1023	LYS	2.4
1	L	216	HIS	2.4
1	K	78	LEU	2.4
1	K	670	LEU	2.4
1	L	128	ASN	2.4
1	O	733	ALA	2.3
1	P	312	VAL	2.3
1	M	123	TYR	2.3
1	P	9	VAL	2.3
1	P	845	GLN	2.3
1	B	731	PRO	2.3
1	P	45	ASP	2.3
1	E	160	GLY	2.3
1	L	46	ARG	2.3
1	P	575	LEU	2.3
1	M	689	GLU	2.3
1	E	4	THR	2.3
1	P	609	ALA	2.3
1	I	80	GLU	2.3
1	J	580	GLU	2.3
1	H	149	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
1	O	687	GLN	2.3
1	K	317	THR	2.3
1	P	681	GLU	2.3
1	M	13	ARG	2.3
1	H	116	THR	2.2
1	P	317	THR	2.2
1	P	46	ARG	2.2
1	A	135	GLN	2.2
1	E	73	TRP	2.2
1	P	583	ASN	2.2
1	N	889	ALA	2.2
1	M	594	ASP	2.2
1	P	405	TYR	2.2
1	E	323	ILE	2.2
1	P	111	PRO	2.2
1	M	175	ALA	2.2
1	N	75	GLU	2.2
1	B	582	GLY	2.2
1	P	687	GLN	2.1
1	A	732	ALA	2.1
1	H	135	GLN	2.1
1	K	682	LEU	2.1
1	F	689	GLU	2.1
1	I	685	LEU	2.1
1	P	799	THR	2.1
1	L	182	ASN	2.1
1	M	370	GLN	2.1
1	L	728	VAL	2.1
1	O	685	LEU	2.1
1	H	136	GLU	2.1
1	M	190	ARG	2.1
1	M	74	LEU	2.1
1	M	129	VAL	2.1
1	E	65	ALA	2.1
1	E	797	GLU	2.1
1	P	323	ILE	2.1
1	I	12	GLN	2.1
1	P	169	SER	2.1
1	M	115	PRO	2.1
1	H	253	TYR	2.1
1	P	43	ARG	2.1
1	K	131	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
1	E	152	LEU	2.0
1	M	95	TYR	2.0
1	H	162	GLY	2.0
1	M	319	ASP	2.0
1	O	320	GLY	2.0
1	B	730	LEU	2.0
1	I	65	ALA	2.0
1	M	595	THR	2.0
1	P	923	SER	2.0
1	E	128	ASN	2.0
1	D	734	SER	2.0
1	O	632	SER	2.0
1	O	684	GLU	2.0

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
1	CME	E	914	10/11	0.95	0.15	-	34,38,97,100	0
1	CME	B	914	10/11	0.96	0.15	-	18,22,82,95	0
1	CME	D	914	10/11	0.96	0.14	-	22,27,86,99	0
1	CME	B	748	10/11	0.93	0.12	-	25,46,87,98	0
1	CME	M	1021	10/11	0.91	0.20	-	48,69,100,100	0
1	CME	J	914	10/11	0.94	0.15	-	25,30,89,100	0
1	CME	J	1021	10/11	0.95	0.20	-	36,57,100,100	0
1	CME	L	914	10/11	0.94	0.12	-	35,40,99,100	0
1	CME	N	914	10/11	0.94	0.12	-	27,32,91,100	0
1	CME	B	1021	10/11	0.93	0.21	-	28,49,98,98	0
1	CME	A	748	10/11	0.96	0.12	-	27,47,89,100	0
1	CME	C	748	10/11	0.90	0.19	-	23,44,86,96	0
1	CME	C	914	10/11	0.95	0.13	-	16,21,80,93	0
1	CME	I	748	10/11	0.93	0.19	-	35,55,97,100	0
1	CME	F	914	10/11	0.97	0.11	-	20,24,83,97	0
1	CME	L	748	10/11	0.86	0.17	-	43,63,100,100	0
1	CME	D	748	10/11	0.92	0.19	-	29,50,92,100	0
1	CME	I	914	10/11	0.94	0.15	-	27,32,91,100	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
1	CME	J	748	10/11	0.94	0.15	-	33,53,95,100	0
1	CME	K	748	10/11	0.92	0.21	-	43,64,100,100	0
1	CME	A	1021	10/11	0.92	0.20	-	30,51,100,100	0
1	CME	P	1021	10/11	0.82	0.26	-	53,74,100,100	0
1	CME	E	748	10/11	0.91	0.18	-	41,61,100,100	0
1	CME	H	1021	10/11	0.85	0.24	-	42,63,100,100	0
1	CME	G	914	10/11	0.95	0.13	-	24,28,87,100	0
1	CME	E	1021	10/11	0.91	0.22	-	44,65,100,100	0
1	CME	A	914	10/11	0.96	0.12	-	19,24,83,96	0
1	CME	N	1021	10/11	0.90	0.20	-	38,59,100,100	0
1	CME	F	748	10/11	0.94	0.17	-	27,47,89,100	0
1	CME	L	1021	10/11	0.93	0.16	-	46,67,100,100	0
1	CME	K	914	10/11	0.89	0.18	-	36,40,99,100	0
1	CME	G	1021	10/11	0.88	0.19	-	34,55,100,100	0
1	CME	N	748	10/11	0.95	0.15	-	35,55,97,100	0
1	CME	P	748	10/11	0.92	0.19	-	50,70,100,100	0
1	CME	G	748	10/11	0.90	0.19	-	31,51,93,100	0
1	CME	O	1021	10/11	0.92	0.18	-	39,60,100,100	0
1	CME	M	914	10/11	0.91	0.14	-	38,42,100,100	0
1	CME	D	1021	10/11	0.92	0.16	-	32,54,100,100	0
1	CME	M	748	10/11	0.92	0.20	-	45,65,100,100	0
1	CME	O	748	10/11	0.92	0.26	-	36,56,98,100	0
1	CME	H	914	10/11	0.93	0.18	-	32,36,95,100	0
1	CME	I	1021	10/11	0.89	0.18	-	38,59,100,100	0
1	CME	F	1021	10/11	0.91	0.17	-	30,51,100,100	0
1	CME	P	914	10/11	0.84	0.16	-	42,47,100,100	0
1	CME	H	748	10/11	0.93	0.15	-	39,59,100,100	0
1	CME	C	1021	10/11	0.91	0.16	-	26,48,96,96	0
1	CME	O	914	10/11	0.93	0.15	-	28,33,92,100	0
1	CME	K	1021	10/11	0.89	0.21	-	46,67,100,100	0

6.3 Carbohydrates

There are no carbohydrates in this entry.

6.4 Ligands

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors

of atoms in the group. The column labelled 'Q < 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
3	MG	B	2002	1/1	0.98	0.31	9.81	23,23,23,23	0
3	MG	G	2002	1/1	0.97	0.24	7.31	29,29,29,29	0
3	MG	O	2002	1/1	0.97	0.26	7.11	33,33,33,33	0
4	NA	M	2004	1/1	0.80	0.36	6.89	62,62,62,62	0
3	MG	C	2002	1/1	0.99	0.23	6.71	21,21,21,21	0
4	NA	M	2005	1/1	0.83	0.30	6.09	46,46,46,46	0
4	NA	J	2004	1/1	0.74	0.29	6.05	50,50,50,50	0
4	NA	L	2005	1/1	0.91	0.25	6.02	44,44,44,44	0
4	NA	P	2005	1/1	0.94	0.31	5.85	51,51,51,51	0
3	MG	H	2002	1/1	0.94	0.22	5.12	37,37,37,37	0
4	NA	K	2005	1/1	0.88	0.23	4.37	44,44,44,44	0
4	NA	A	2005	1/1	0.94	0.18	4.22	28,28,28,28	0
4	NA	B	2005	1/1	0.92	0.21	3.87	26,26,26,26	0
4	NA	G	2005	1/1	0.69	0.17	3.74	32,32,32,32	0
3	MG	J	2003	1/1	0.93	0.24	3.41	31,31,31,31	0
4	NA	F	2004	1/1	0.76	0.21	3.36	44,44,44,44	0
3	MG	F	2002	1/1	0.98	0.19	3.34	25,25,25,25	0
4	NA	N	2005	1/1	0.93	0.19	3.21	36,36,36,36	0
4	NA	H	2005	1/1	0.95	0.23	2.89	40,40,40,40	0
4	NA	E	2004	1/1	0.92	0.26	2.55	58,58,58,58	0
4	NA	J	2005	1/1	0.89	0.17	2.41	34,34,34,34	0
2	2FG	B	2001	11/12	0.95	0.20	2.22	23,27,34,38	0
3	MG	L	2002	1/1	0.98	0.17	2.21	40,40,40,40	0
4	NA	D	2005	1/1	0.89	0.17	2.00	31,31,31,31	0
4	NA	A	2004	1/1	0.73	0.16	1.91	44,44,44,44	0
4	NA	I	2004	1/1	0.93	0.19	1.49	52,52,52,52	0
4	NA	P	2004	1/1	0.39	0.23	1.36	67,67,67,67	0
3	MG	N	2002	1/1	0.98	0.16	1.16	32,32,32,32	0
4	NA	O	2005	1/1	0.64	0.17	1.11	37,37,37,37	0
3	MG	K	2002	1/1	0.97	0.17	1.03	41,41,41,41	0
3	MG	E	2002	1/1	0.98	0.17	0.99	38,38,38,38	0
3	MG	O	2003	1/1	0.88	0.18	0.92	33,33,33,33	0
4	NA	F	2005	1/1	0.97	0.14	0.89	28,28,28,28	0
3	MG	C	2003	1/1	0.94	0.18	0.76	21,21,21,21	0
2	2FG	F	2001	11/12	0.92	0.16	0.73	25,29,36,40	0
4	NA	K	2004	1/1	0.93	0.17	0.59	60,60,60,60	0
3	MG	I	2002	1/1	0.95	0.16	0.55	32,32,32,32	0
2	2FG	G	2001	11/12	0.95	0.16	0.28	29,33,40,44	0
2	2FG	P	2001	11/12	0.85	0.19	0.22	48,52,58,63	0
2	2FG	J	2001	11/12	0.94	0.14	0.11	31,35,41,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
3	MG	A	2003	1/1	0.98	0.14	0.11	24,24,24,24	0
2	2FG	L	2001	11/12	0.89	0.15	0.08	41,45,51,56	0
3	MG	M	2003	1/1	0.93	0.24	-0.00	43,43,43,43	0
4	NA	E	2005	1/1	0.93	0.16	-0.19	42,42,42,42	0
4	NA	L	2004	1/1	0.71	0.16	-0.26	60,60,60,60	0
3	MG	I	2003	1/1	0.94	0.16	-0.28	33,33,33,33	0
4	NA	D	2004	1/1	0.90	0.14	-0.28	47,47,47,47	0
3	MG	D	2002	1/1	0.97	0.13	-0.32	27,27,27,27	0
2	2FG	H	2001	11/12	0.89	0.14	-0.37	37,41,48,52	0
2	2FG	I	2001	11/12	0.91	0.13	-0.38	33,37,43,48	0
2	2FG	D	2001	11/12	0.96	0.14	-0.41	28,32,38,43	0
4	NA	C	2004	1/1	0.80	0.13	-0.42	41,41,41,41	0
2	2FG	E	2001	11/12	0.90	0.14	-0.56	39,43,49,54	0
2	2FG	C	2001	11/12	0.97	0.12	-0.66	22,26,32,37	0
2	2FG	M	2001	11/12	0.89	0.15	-0.66	43,47,54,58	0
3	MG	K	2003	1/1	0.90	0.14	-0.68	41,41,41,41	0
4	NA	I	2005	1/1	0.85	0.14	-0.73	36,36,36,36	0
2	2FG	O	2001	11/12	0.95	0.14	-0.77	34,38,44,49	0
4	NA	G	2004	1/1	0.69	0.14	-0.79	48,48,48,48	0
4	NA	O	2004	1/1	0.63	0.14	-0.89	53,53,53,53	0
3	MG	P	2002	1/1	0.94	0.17	-0.94	47,47,47,47	0
2	2FG	N	2001	11/12	0.94	0.12	-0.98	33,37,43,48	0
4	NA	B	2004	1/1	0.85	0.15	-1.07	42,42,42,42	0
2	2FG	K	2001	11/12	0.96	0.13	-1.28	41,45,52,56	0
3	MG	J	2002	1/1	0.98	0.10	-1.31	30,30,30,30	0
2	2FG	A	2001	11/12	0.93	0.12	-1.39	25,29,35,40	0
3	MG	L	2003	1/1	0.87	0.11	-1.40	40,40,40,40	0
4	NA	H	2004	1/1	0.85	0.10	-1.66	56,56,56,56	0
3	MG	A	2002	1/1	0.98	0.10	-1.96	24,24,24,24	0
4	NA	N	2004	1/1	0.86	0.10	-2.07	52,52,52,52	0
3	MG	F	2003	1/1	0.96	0.10	-2.08	25,25,25,25	0
4	NA	C	2005	1/1	0.94	0.10	-2.22	24,24,24,24	0
3	MG	D	2003	1/1	0.86	0.13	-2.22	27,27,27,27	0
3	MG	H	2003	1/1	0.96	0.07	-2.81	37,37,37,37	0
3	MG	P	2003	1/1	0.98	0.12	-2.97	48,48,48,48	0
3	MG	N	2003	1/1	0.88	0.07	-3.28	32,32,32,32	0
3	MG	M	2002	1/1	0.86	0.11	-3.37	43,43,43,43	0
3	MG	E	2003	1/1	0.84	0.10	-3.41	39,39,39,39	0
3	MG	B	2003	1/1	0.97	0.10	-3.74	23,23,23,23	0
3	MG	G	2003	1/1	0.96	0.08	-4.66	29,29,29,29	0

6.5 Other polymers [i](#)

There are no such residues in this entry.