



Full wwPDB EM Validation Report ⓘ

Mar 22, 2026 – 06:56 PM UTC

PDB ID : 7AX3 / pdb_00007ax3
EMDB ID : EMD-11932
Title : CryoEM structure of the super-constricted two-start dynamin 1 filament
Authors : Liu, J.W.; Zhang, P.J.
Deposited on : 2020-11-09
Resolution : 3.74 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

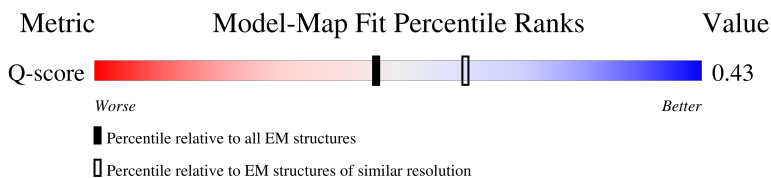
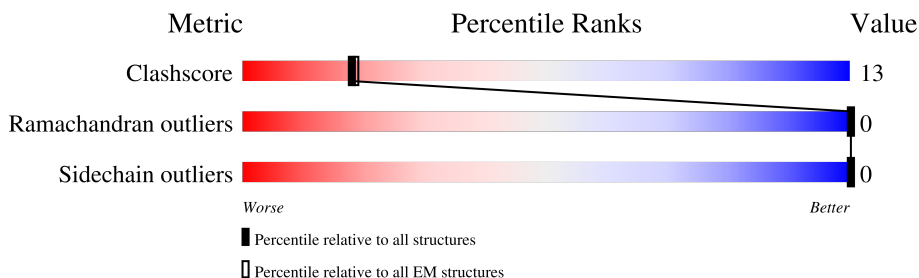
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.74 Å.

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



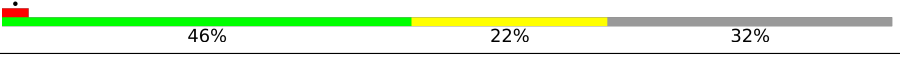
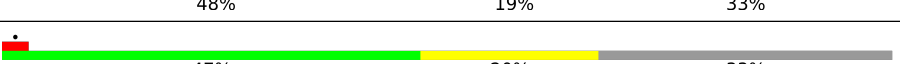
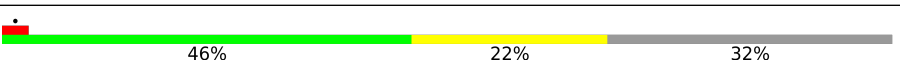
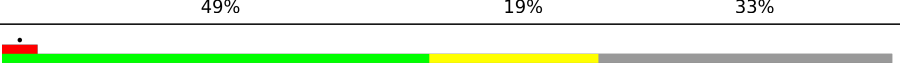
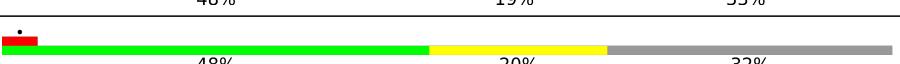
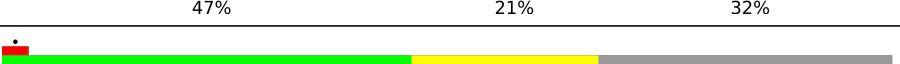
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	10346 (3.24 - 4.24)

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

Mol	Chain	Length	Quality of chain
1	A	864	 47% 21% 32%
1	A2	864	 46% 22% 32%
1	B	864	 47% 20% 33%
1	B2	864	 47% 20% 33%

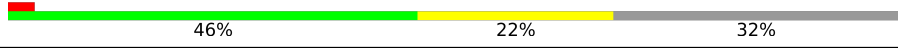
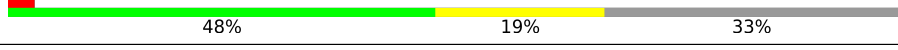
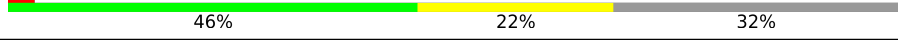
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Mol	Chain	Length	Quality of chain
1	C	864	
1	C2	864	
1	D	864	
1	D2	864	
1	E	864	
1	E2	864	
1	F	864	
1	F2	864	
1	G	864	
1	G2	864	
1	H	864	
1	H2	864	
1	I	864	
1	I2	864	
1	J	864	
1	J2	864	
1	K	864	
1	L	864	
1	M	864	
1	N	864	
1	O	864	
1	P	864	
1	Q	864	
1	R	864	
1	S	864	

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Mol	Chain	Length	Quality of chain
1	T	864	
1	U	864	
1	V	864	
1	W	864	
1	X	864	
1	Y	864	
1	Z	864	

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 169717 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Dynamin-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	C2	587	Total	C	N	O	S	0	0
			4703	2955	834	888	26		
1	D2	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		
1	A2	587	Total	C	N	O	S	0	0
			4703	2955	834	888	26		
1	B2	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		
1	A	587	Total	C	N	O	S	0	0
			4703	2955	834	888	26		
1	B	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		
1	C	587	Total	C	N	O	S	0	0
			4703	2955	834	888	26		
1	D	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		
1	E	587	Total	C	N	O	S	0	0
			4703	2955	834	888	26		
1	F	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		
1	G	587	Total	C	N	O	S	0	0
			4703	2955	834	888	26		
1	H	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		
1	I	587	Total	C	N	O	S	0	0
			4703	2955	834	888	26		
1	J	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		
1	K	587	Total	C	N	O	S	0	0
			4703	2955	834	888	26		
1	L	587	Total	C	N	O	S	0	0
			4703	2955	834	888	26		
1	M	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	N	587	Total	C	N	O	S	0	0
			4703	2955	834	888	26		
1	O	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		
1	P	587	Total	C	N	O	S	0	0
			4703	2955	834	888	26		
1	Q	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		
1	R	587	Total	C	N	O	S	0	0
			4703	2955	834	888	26		
1	S	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		
1	T	587	Total	C	N	O	S	0	0
			4703	2955	834	888	26		
1	U	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		
1	V	587	Total	C	N	O	S	0	0
			4703	2955	834	888	26		
1	W	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		
1	X	587	Total	C	N	O	S	0	0
			4703	2955	834	888	26		
1	Y	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		
1	Z	587	Total	C	N	O	S	0	0
			4703	2955	834	888	26		
1	E2	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		
1	F2	587	Total	C	N	O	S	0	0
			4703	2955	834	888	26		
1	G2	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		
1	H2	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		
1	I2	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		
1	J2	582	Total	C	N	O	S	0	0
			4662	2931	825	881	25		

There are 36 discrepancies between the modelled and reference sequences:

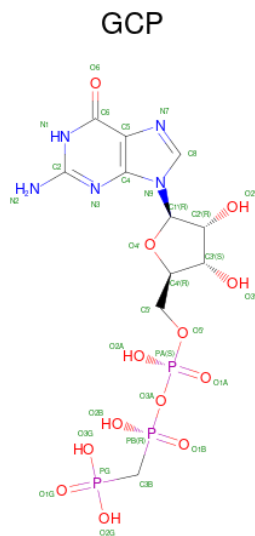
Chain	Residue	Modelled	Actual	Comment	Reference
C2	744	ASN	ASP	variant	UNP Q05193

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Chain	Residue	Modelled	Actual	Comment	Reference
D2	744	ASN	ASP	variant	UNP Q05193
A2	744	ASN	ASP	variant	UNP Q05193
B2	744	ASN	ASP	variant	UNP Q05193
A	744	ASN	ASP	variant	UNP Q05193
B	744	ASN	ASP	variant	UNP Q05193
C	744	ASN	ASP	variant	UNP Q05193
D	744	ASN	ASP	variant	UNP Q05193
E	744	ASN	ASP	variant	UNP Q05193
F	744	ASN	ASP	variant	UNP Q05193
G	744	ASN	ASP	variant	UNP Q05193
H	744	ASN	ASP	variant	UNP Q05193
I	744	ASN	ASP	variant	UNP Q05193
J	744	ASN	ASP	variant	UNP Q05193
K	744	ASN	ASP	variant	UNP Q05193
L	744	ASN	ASP	variant	UNP Q05193
M	744	ASN	ASP	variant	UNP Q05193
N	744	ASN	ASP	variant	UNP Q05193
O	744	ASN	ASP	variant	UNP Q05193
P	744	ASN	ASP	variant	UNP Q05193
Q	744	ASN	ASP	variant	UNP Q05193
R	744	ASN	ASP	variant	UNP Q05193
S	744	ASN	ASP	variant	UNP Q05193
T	744	ASN	ASP	variant	UNP Q05193
U	744	ASN	ASP	variant	UNP Q05193
V	744	ASN	ASP	variant	UNP Q05193
W	744	ASN	ASP	variant	UNP Q05193
X	744	ASN	ASP	variant	UNP Q05193
Y	744	ASN	ASP	variant	UNP Q05193
Z	744	ASN	ASP	variant	UNP Q05193
E2	744	ASN	ASP	variant	UNP Q05193
F2	744	ASN	ASP	variant	UNP Q05193
G2	744	ASN	ASP	variant	UNP Q05193
H2	744	ASN	ASP	variant	UNP Q05193
I2	744	ASN	ASP	variant	UNP Q05193
J2	744	ASN	ASP	variant	UNP Q05193

- Molecule 2 is PHOSPHOMETHYLPHOSPHONIC ACID GUANYLATE ESTER (CCD ID: GCP) (formula: $C_{11}H_{18}N_5O_{13}P_3$) (labeled as "Ligand of Interest" by depositor).



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Mol	Chain	Residues	Atoms					AltConf
2	K	1	Total 32	C 11	N 5	O 13	P 3	0
2	L	1	Total 32	C 11	N 5	O 13	P 3	0
2	M	1	Total 32	C 11	N 5	O 13	P 3	0
2	N	1	Total 32	C 11	N 5	O 13	P 3	0
2	O	1	Total 32	C 11	N 5	O 13	P 3	0
2	P	1	Total 32	C 11	N 5	O 13	P 3	0
2	Q	1	Total 32	C 11	N 5	O 13	P 3	0
2	R	1	Total 32	C 11	N 5	O 13	P 3	0
2	S	1	Total 32	C 11	N 5	O 13	P 3	0
2	T	1	Total 32	C 11	N 5	O 13	P 3	0
2	U	1	Total 32	C 11	N 5	O 13	P 3	0
2	V	1	Total 32	C 11	N 5	O 13	P 3	0
2	W	1	Total 32	C 11	N 5	O 13	P 3	0
2	X	1	Total 32	C 11	N 5	O 13	P 3	0
2	Y	1	Total 32	C 11	N 5	O 13	P 3	0
2	Z	1	Total 32	C 11	N 5	O 13	P 3	0
2	E2	1	Total 32	C 11	N 5	O 13	P 3	0
2	F2	1	Total 32	C 11	N 5	O 13	P 3	0
2	G2	1	Total 32	C 11	N 5	O 13	P 3	0
2	H2	1	Total 32	C 11	N 5	O 13	P 3	0
2	I2	1	Total 32	C 11	N 5	O 13	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
2	J2	1	Total	C	N	O	P	0
			32	11	5	13	3	

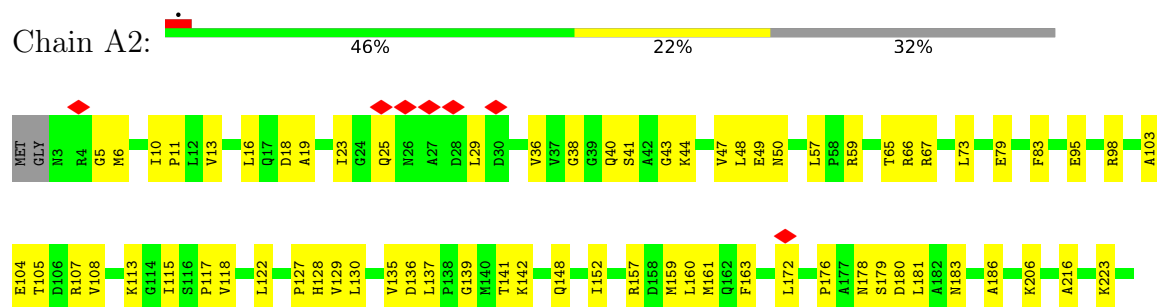
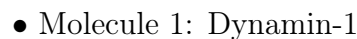
- Molecule 3 is MAGNESIUM ION (CCD ID: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

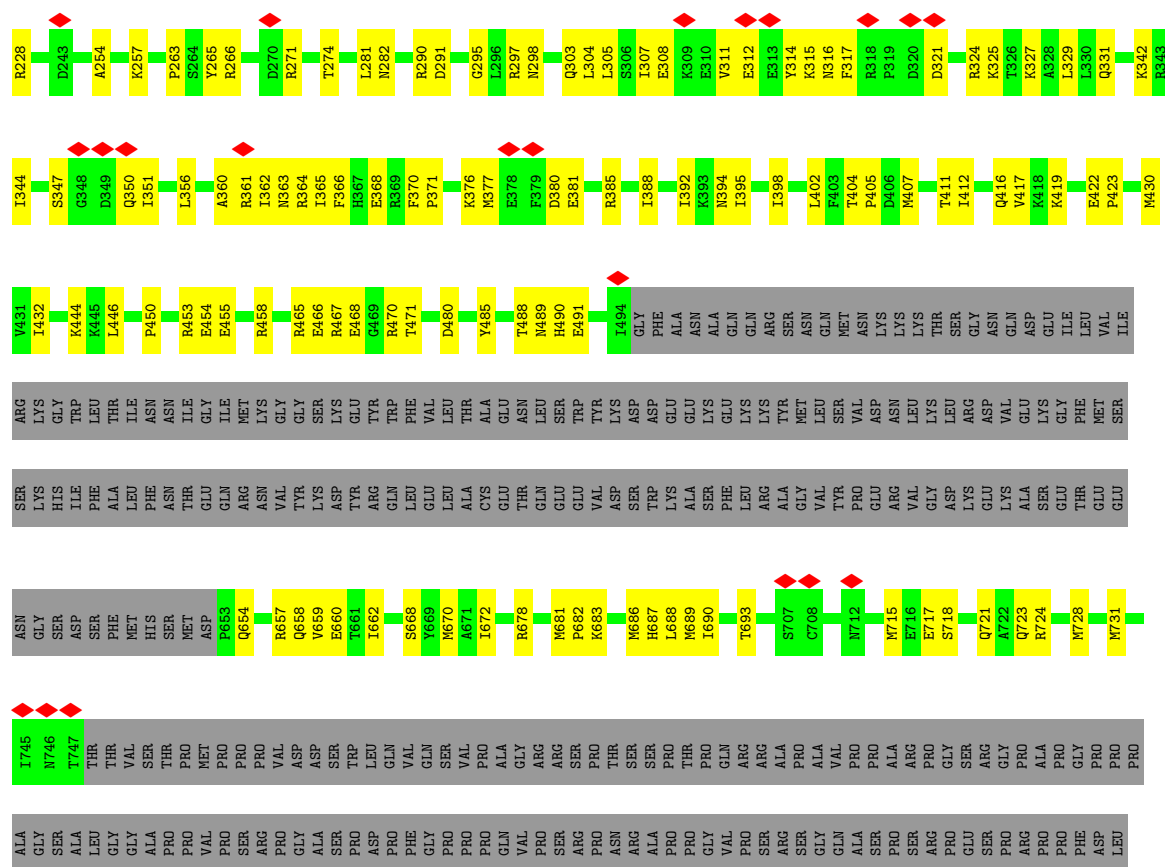
Mol	Chain	Residues	Atoms		AltConf
3	C2	1	Total	Mg	0
			1	1	
3	D2	1	Total	Mg	0
			1	1	
3	A2	1	Total	Mg	0
			1	1	
3	B2	1	Total	Mg	0
			1	1	
3	A	1	Total	Mg	0
			1	1	
3	B	1	Total	Mg	0
			1	1	
3	C	1	Total	Mg	0
			1	1	
3	D	1	Total	Mg	0
			1	1	
3	E	1	Total	Mg	0
			1	1	
3	F	1	Total	Mg	0
			1	1	
3	G	1	Total	Mg	0
			1	1	
3	H	1	Total	Mg	0
			1	1	
3	I	1	Total	Mg	0
			1	1	
3	J	1	Total	Mg	0
			1	1	
3	K	1	Total	Mg	0
			1	1	
3	L	1	Total	Mg	0
			1	1	
3	M	1	Total	Mg	0
			1	1	
3	N	1	Total	Mg	0
			1	1	

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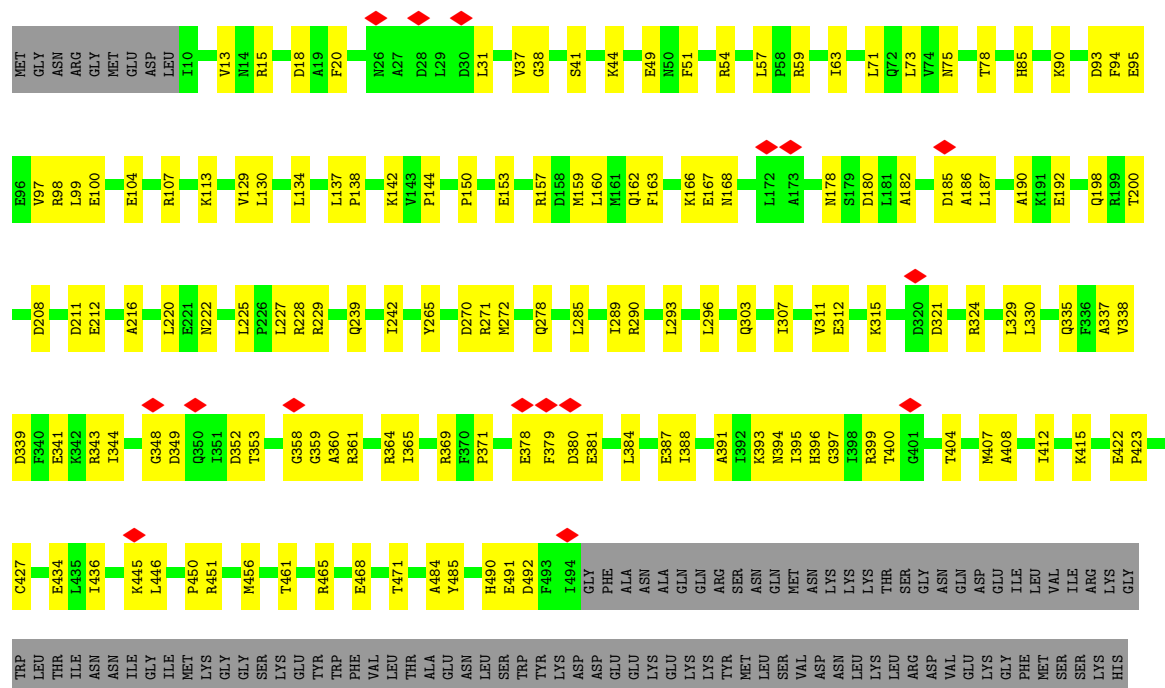
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Mol	Chain	Residues	Atoms		AltConf
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3	P	1	Total 1	Mg 1	0
3	Q	1	Total 1	Mg 1	0
3	R	1	Total 1	Mg 1	0
3	S	1	Total 1	Mg 1	0
3	T	1	Total 1	Mg 1	0
3	U	1	Total 1	Mg 1	0
3	V	1	Total 1	Mg 1	0
3	W	1	Total 1	Mg 1	0
3	X	1	Total 1	Mg 1	0
3	Y	1	Total 1	Mg 1	0
3	Z	1	Total 1	Mg 1	0
3	E2	1	Total 1	Mg 1	0
3	F2	1	Total 1	Mg 1	0
3	G2	1	Total 1	Mg 1	0
3	H2	1	Total 1	Mg 1	0
3	I2	1	Total 1	Mg 1	0
3	J2	1	Total 1	Mg 1	0



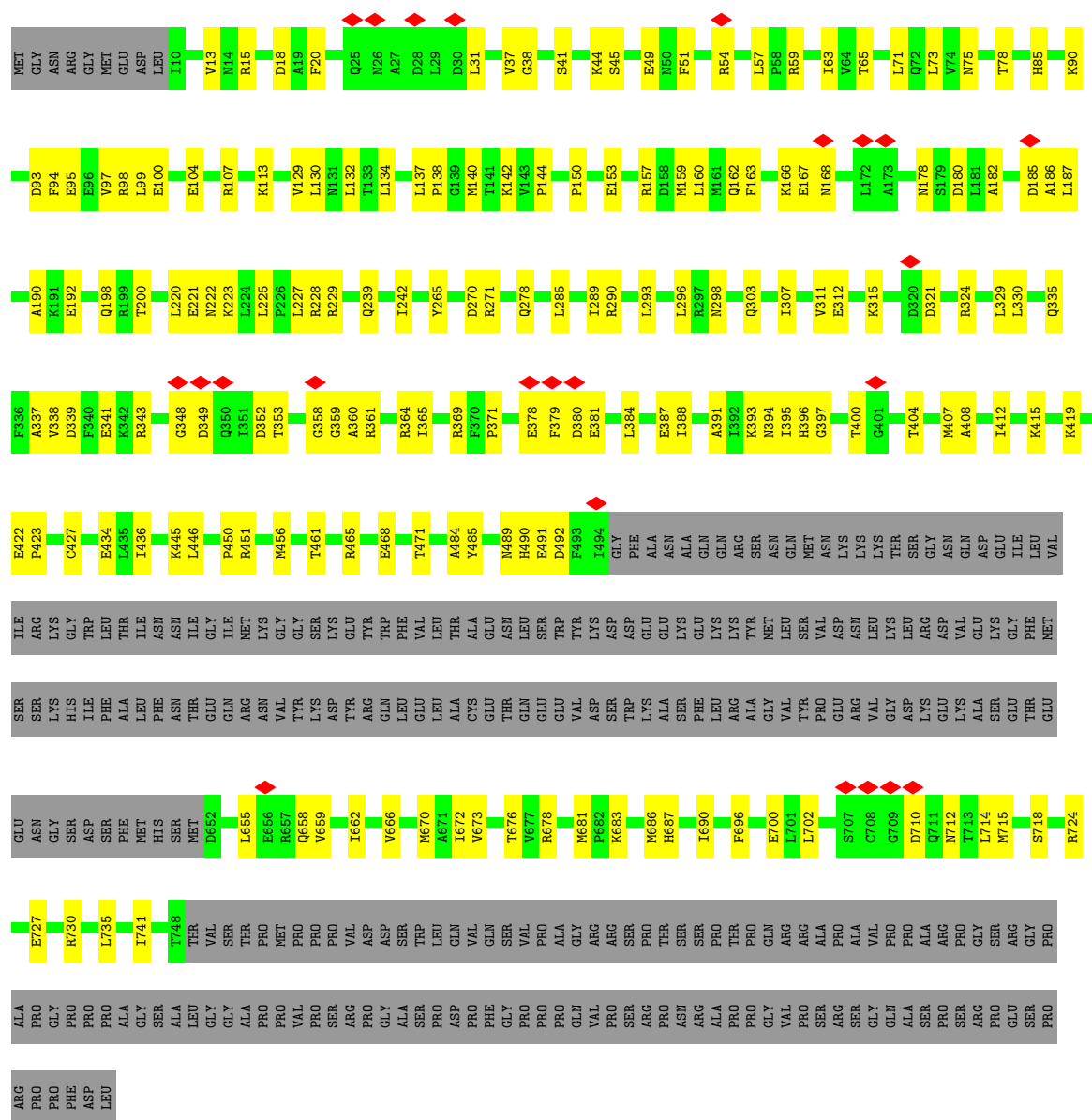


• Molecule 1: Dynamin-1

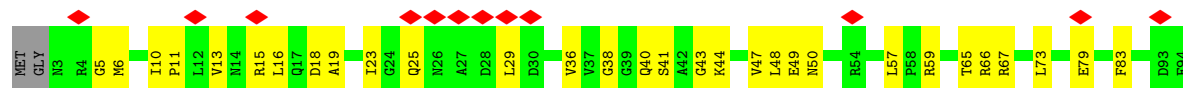


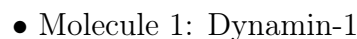


- Molecule 1: Dynamin-1



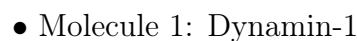
- Molecule 1: Dynamin-1



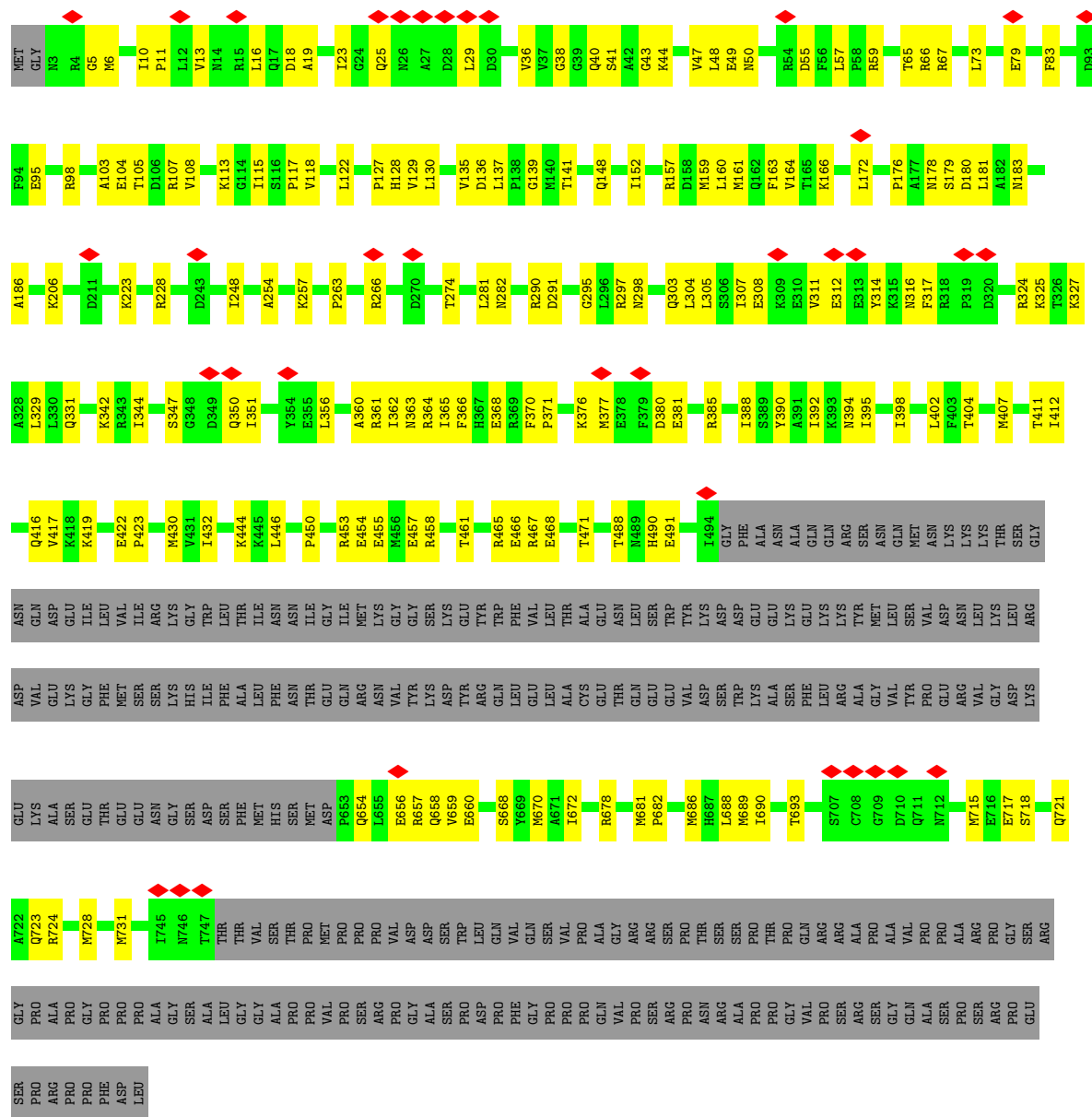


Chain E:

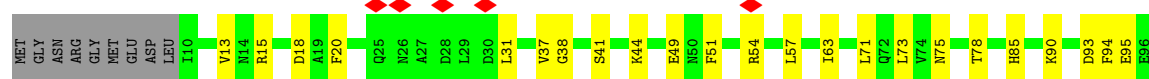


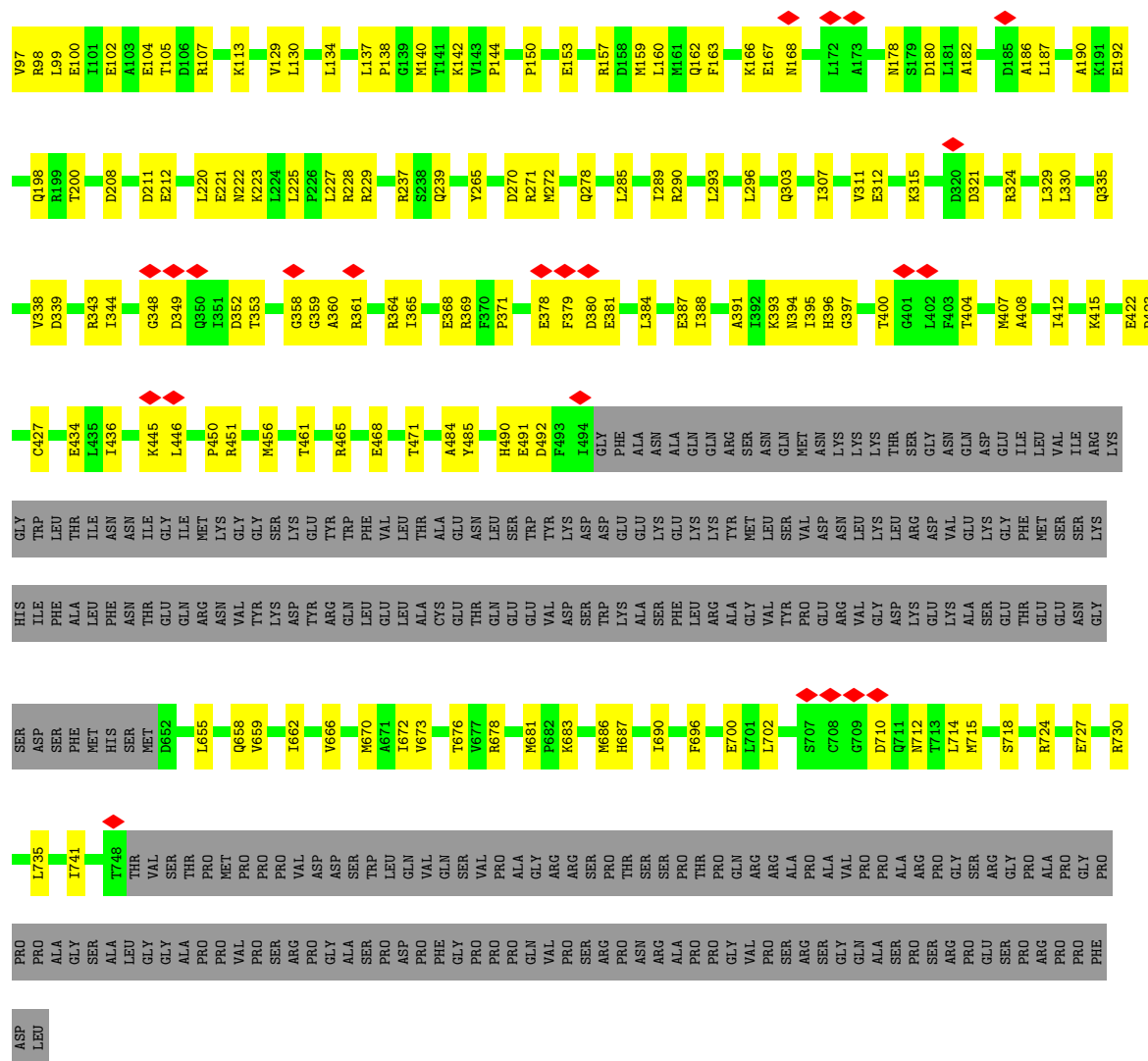


Chain N: 47% 21% 32%



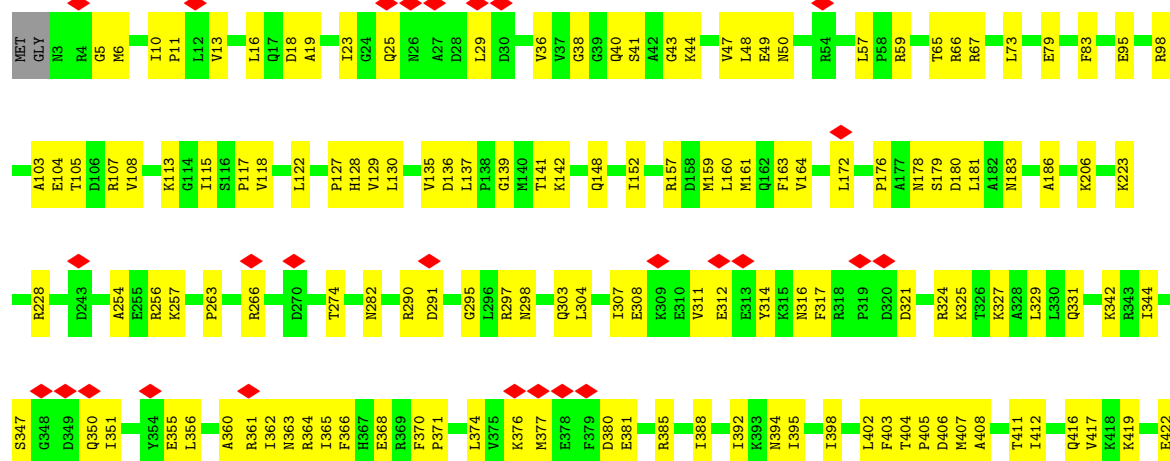
Chain 0: 47% 20% 33%



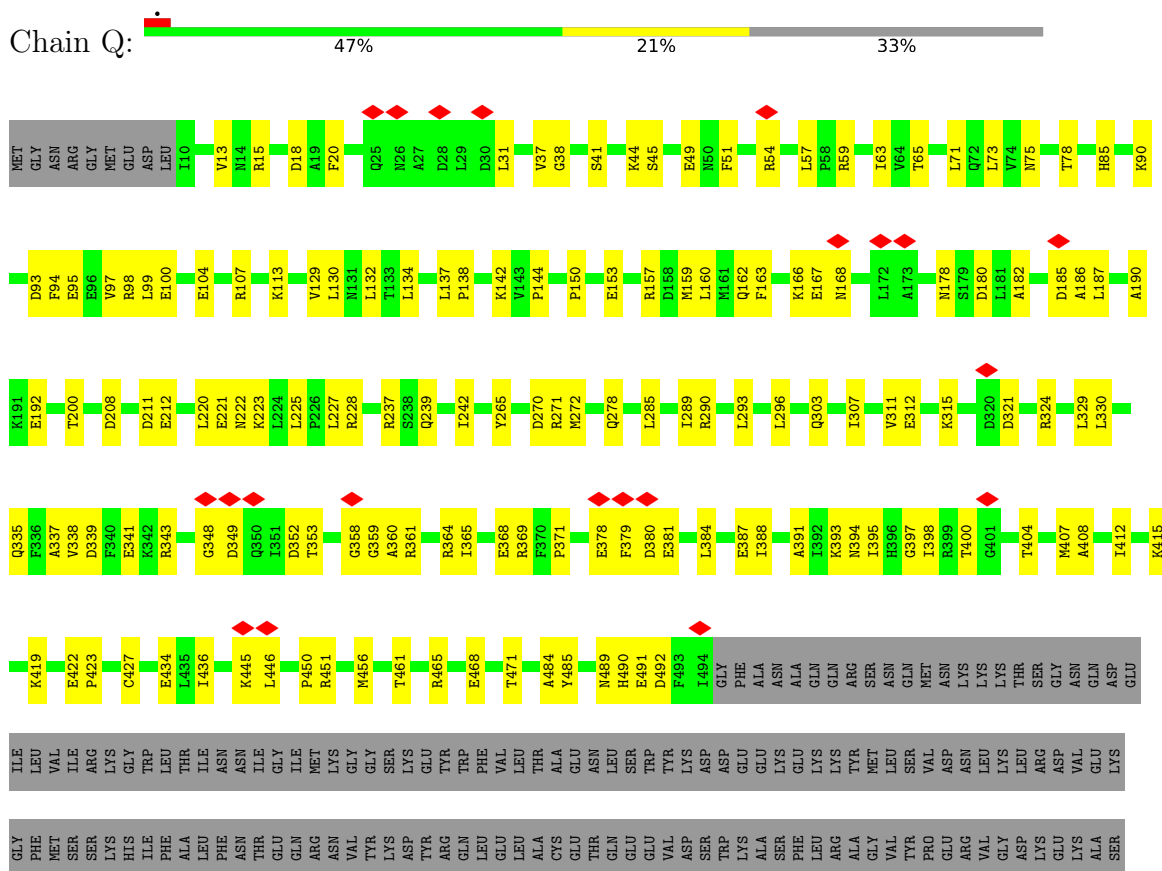


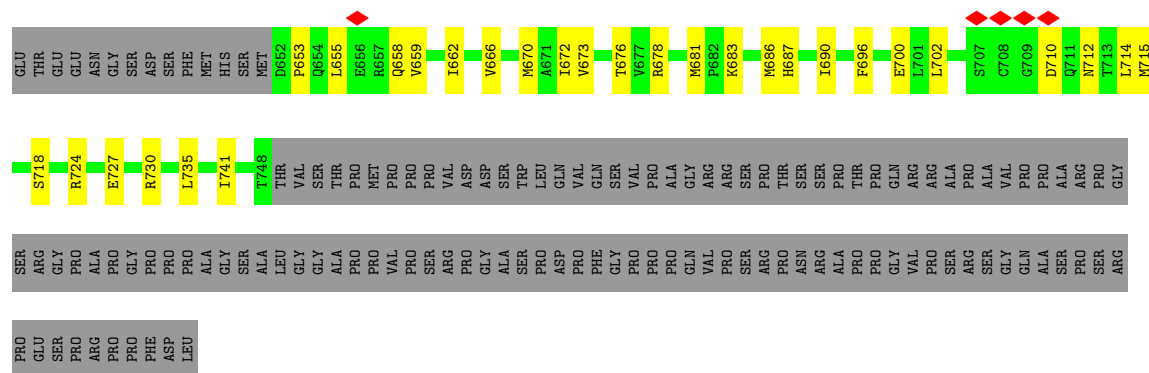
• Molecule 1: Dynamin-1

Chain P:

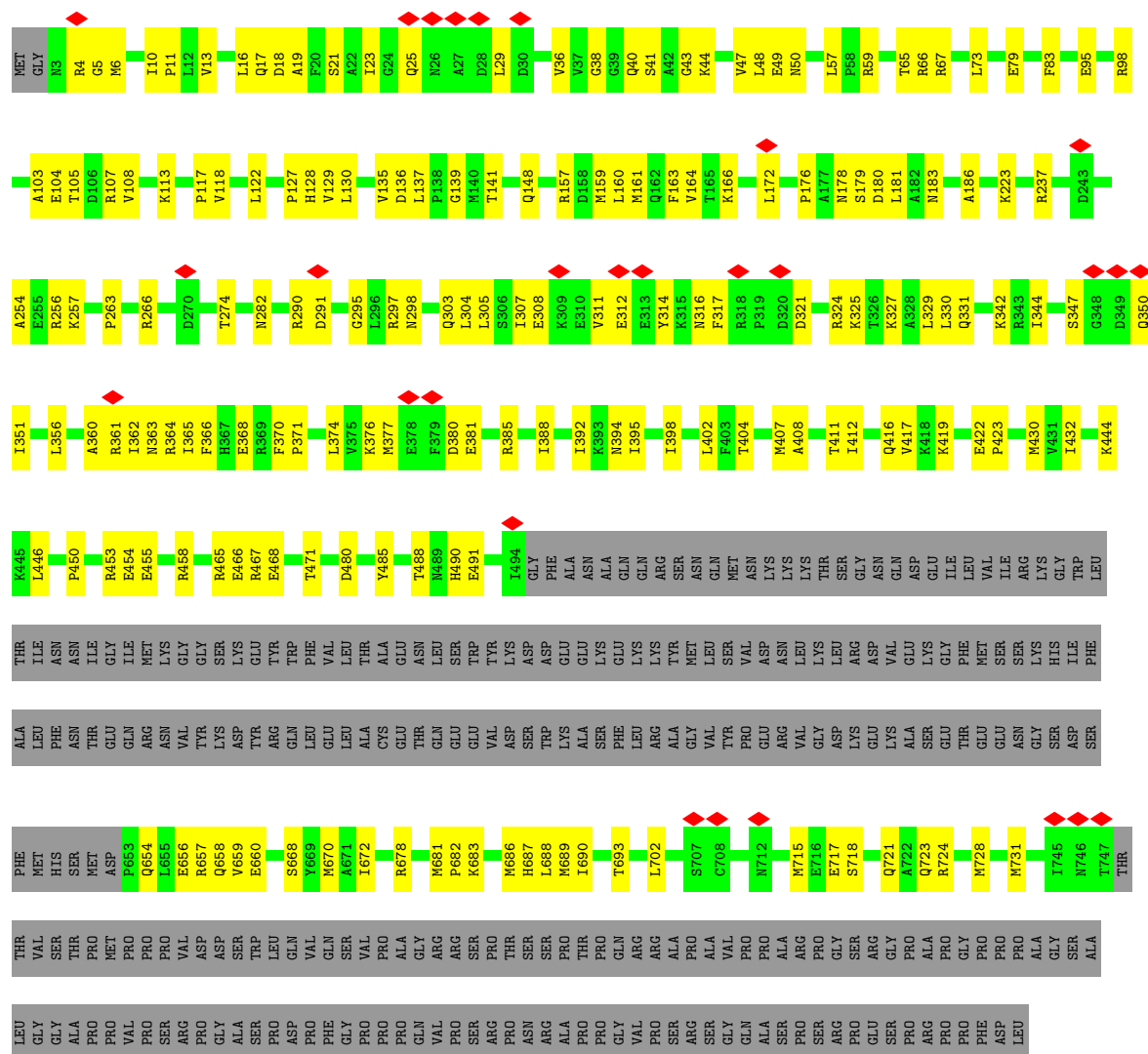


- Molecule 1: Dynamin-1





• Molecule 1: Dynamin-1



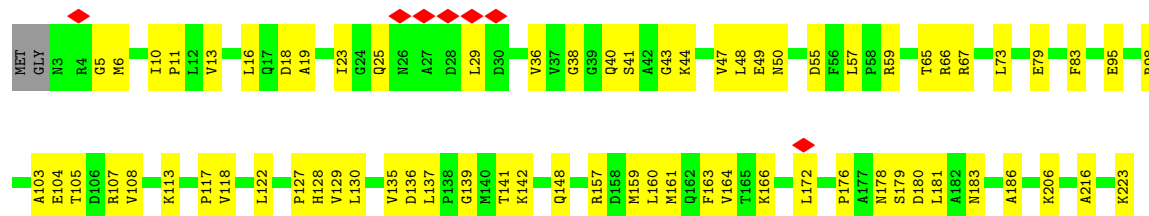
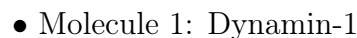
• Molecule 1: Dynamin-1



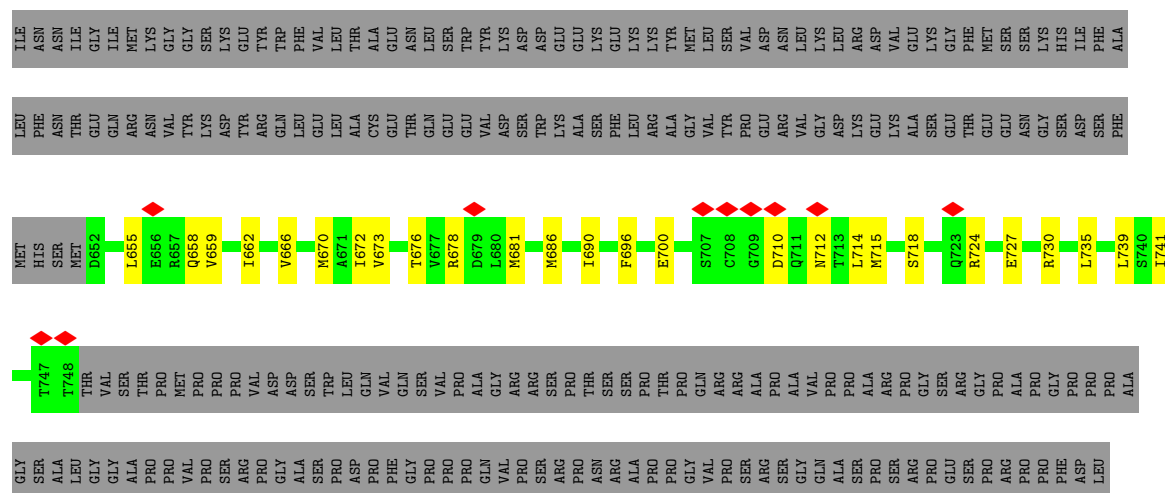




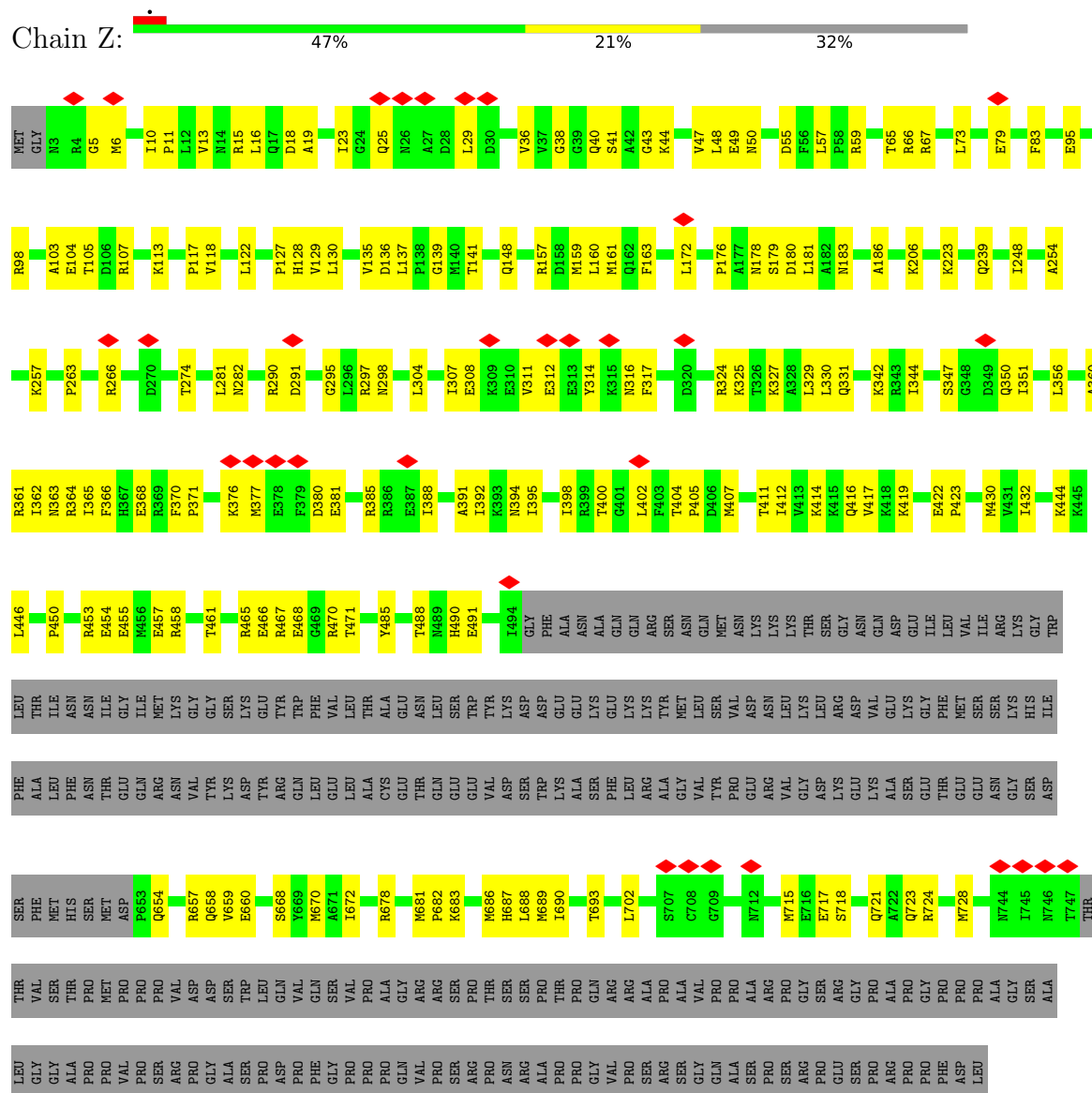
Chain W:



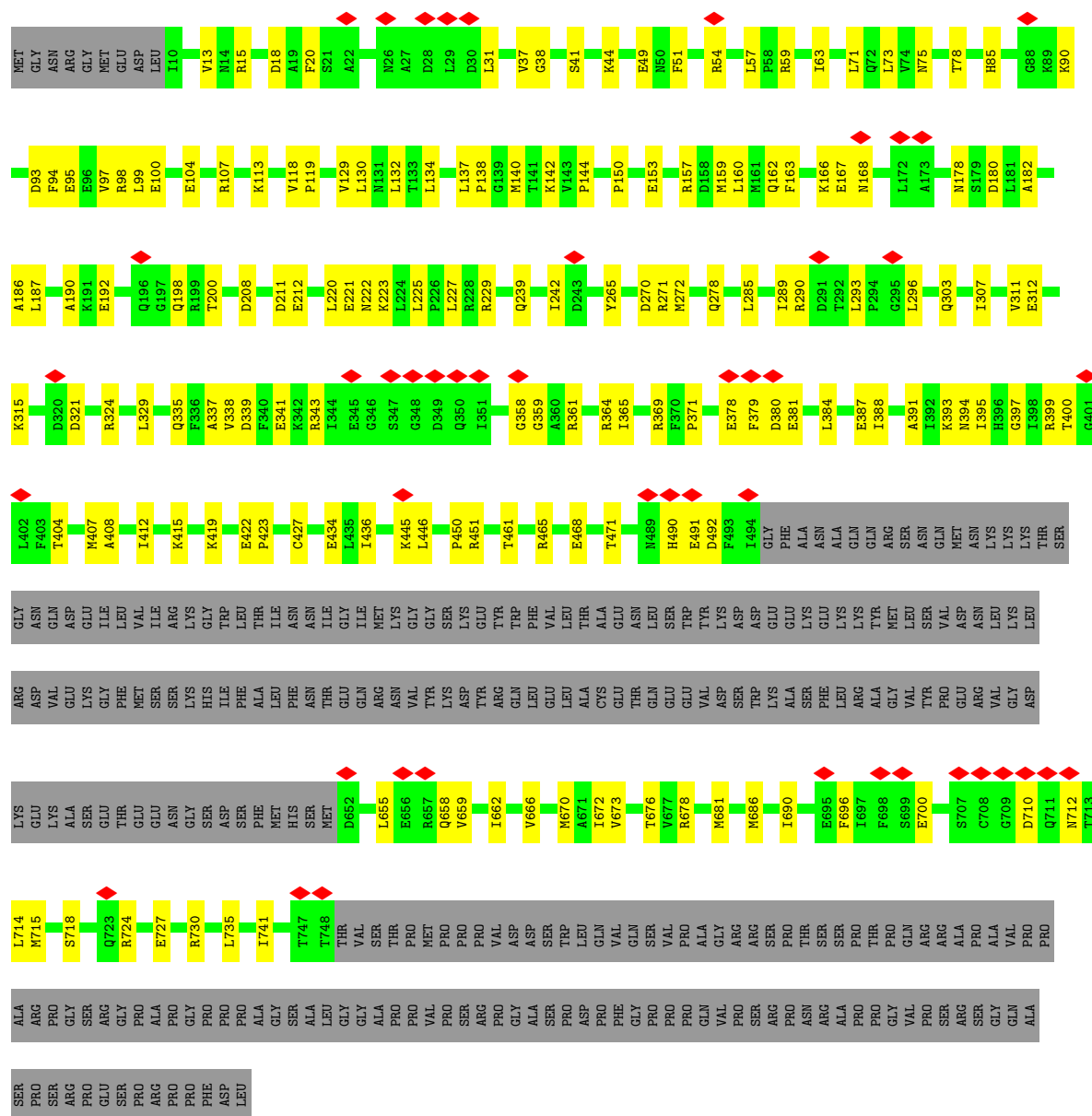




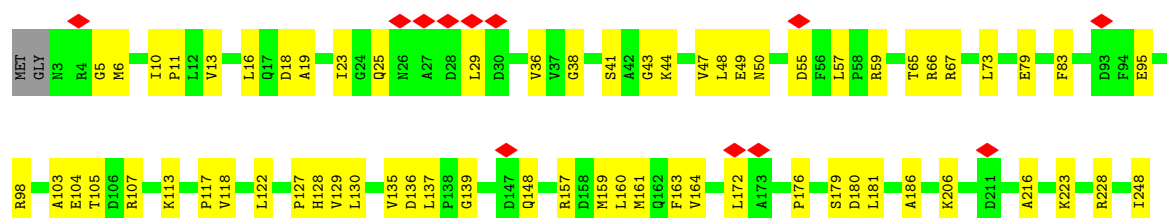
• Molecule 1: Dynamin-1

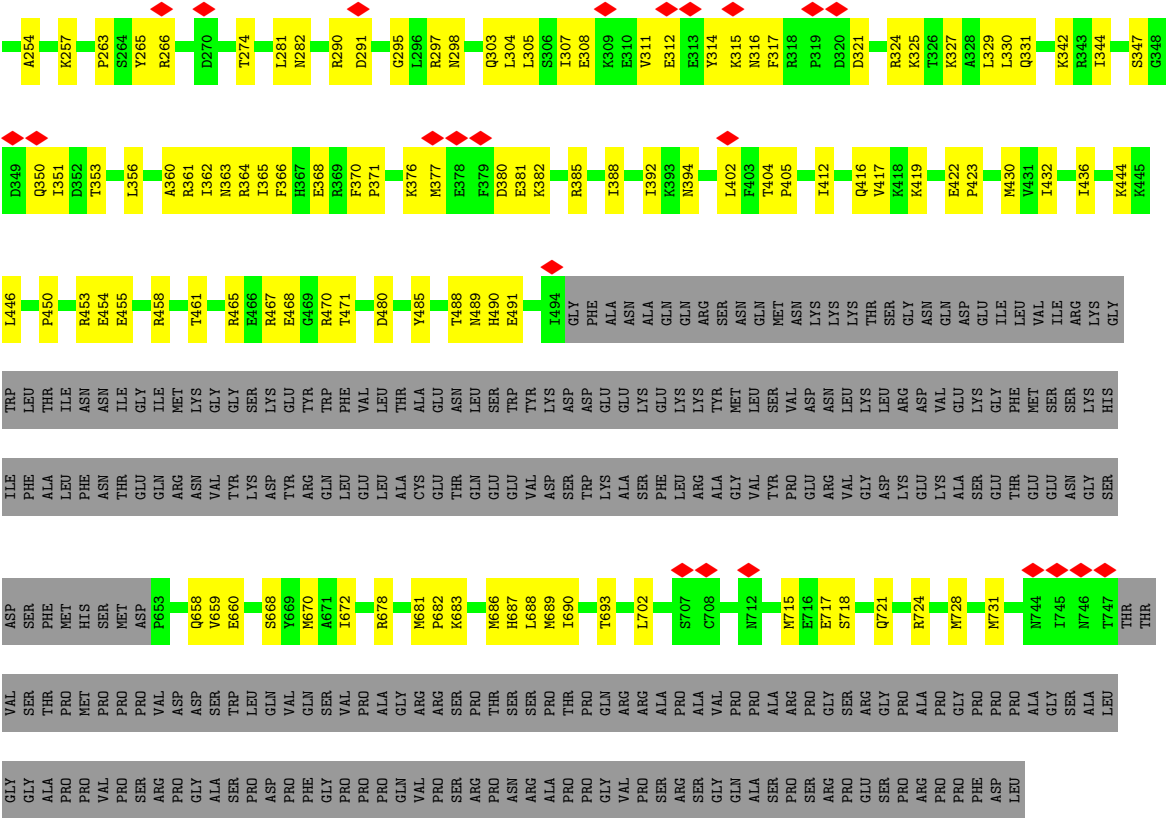


Chain E2:

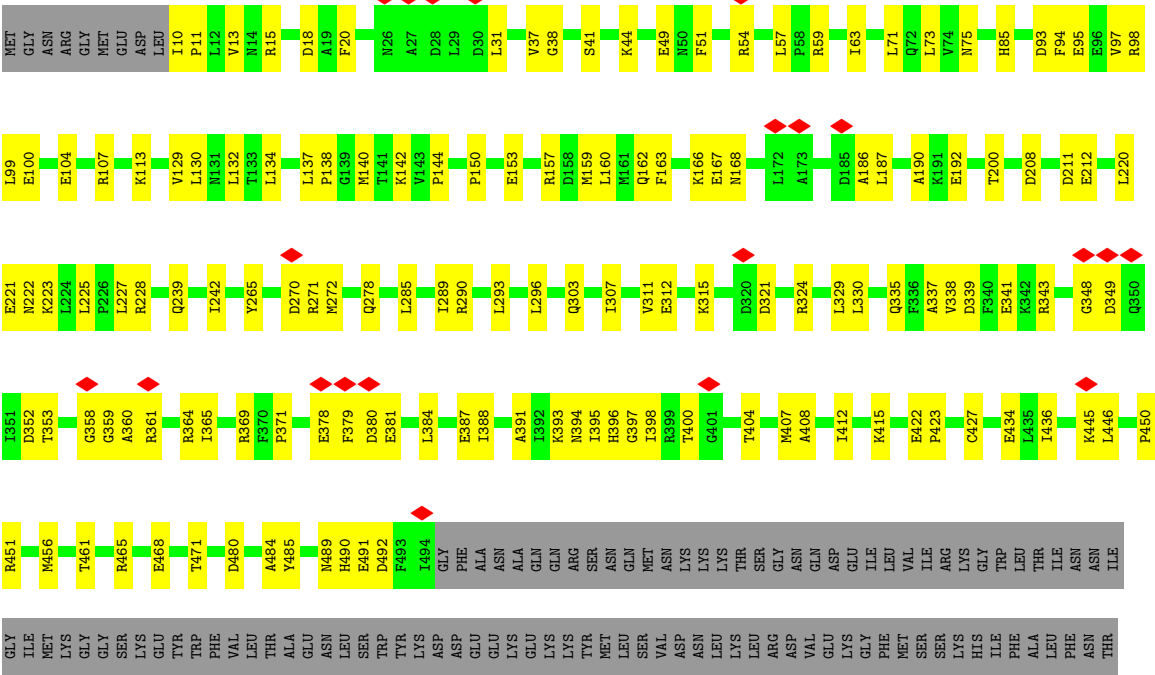


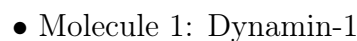
Chain F2:





• Molecule 1: Dynammin-1





L220	E221	N222	K223	L224	L225	L226	L227	R228	R229	R237	S238	Q239	D243	Y265	D270	R271	H272	Q278	L285	I289	R290	L293	L296	R297	N298	K299	Q303	I307	V311	E312	K315	D320	D321	R324	L329	L330	Q335	V338	D339	R343											
I344	M456	G348	D349	Q350	I351	D352	T353	G358	G359	A360	R361	R364	I365	E368	R369	F370	P371	E378	F379	D380	E381	L384	E387	I388	A391	I395	G401	L402	F403	T404	A408	I412	K415	E422	P423	C427	E434	L435	I436	K445	L446	P450									
LYS	GLY	GLY	SER	LYS	GLU	TYR	TRP	PHE	VAL	LEU	THR	ALA	GLU	ASN	THR	GLN	GLU	LYS	ALA	GLN	LYS	LYS	ASP	ASN	LYS	LYS	THR	SER	GLY	ASN	GLN	VAL	ASP	GLU	ILE	LEU	VAL	ILE	ARG	LYS	GLY	TRP	LEU	THR	ILE	ASN	ASN	THR	GLN	ILE	MET
ASN	VAL	TYR	LYS	ASP	TYR	ARG	GLN	LEU	GLU	ALA	CYS	GLU	THR	GLN	GLU	VAL	ASP	SER	TRP	LYS	ALA	PHE	LEU	ALA	VAL	GLY	VAL	ASP	LYS	GLU	LYS	GLY	PHE	MET	SER	LYS	HIS	ILE	PHE	ALA	LEU	THR	PHE	ASN	THR	GLU	GLN	ILE	ARG		
L655	Q658	V659	I662	V666	M670	A671	I672	V673	T676	V677	R678	M681	P682	K683	M686	H687	I690	F696	E700	I701	L702	S707	C708	G709	D710	Q711	N712	T713	L714	M715	S718	R724	E727	R730	L735	I741	T743	THR	VAL	SER	THR										
PRO	PRO	PRO	PRO	VAL	ASP	ASP	GLY	ALA	SER	TRP	GLN	VAL	GLN	VAL	PRO	PRO	ALA	GLY	ARG	PRO	ARG	PRO	ARG	PRO	ALA	PRO	ALA	ALA	PRO	ARG	GLY	PRO	ARG	ALA	PRO	PRO	GLY	PRO	ALA	ALA	GLY	PRO	PRO	PRO	PRO	ASP	LEU	GLY	ALA		
PRO	VAL	PRO	SER	ARG	VAL	ASP	GLY	ALA	SER	TRP	GLN	VAL	VAL	PRO	PRO	PRO	ALA	PRO	THR	PRO	PRO	GLY	VAL	PRO	GLY	VAL	ALA	ALA	PRO	ARG	GLY	PRO	ARG	ALA	ALA	ALA	GLY	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO		

4 Experimental information

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=24.43°, rise=13.58 Å, axial sym=C2	Depositor
Number of segments used	16772	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{Å}^2$)	45	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	0.077	Depositor
Minimum map value	-0.031	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.002	Depositor
Recommended contour level	0.0115	Depositor
Map size (Å)	534.48, 534.48, 534.48	wwPDB
Map dimensions	510, 510, 510	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.048, 1.048, 1.048	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: GCP, 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	0.19	0/4772	0.43	0/6432
1	A2	0.19	0/4772	0.43	0/6432
1	B	0.19	0/4731	0.46	0/6380
1	B2	0.19	0/4731	0.46	0/6380
1	C	0.19	0/4772	0.43	0/6432
1	C2	0.19	0/4772	0.43	0/6432
1	D	0.19	0/4731	0.46	0/6380
1	D2	0.18	0/4731	0.46	0/6380
1	E	0.19	0/4772	0.43	0/6432
1	E2	0.19	0/4731	0.46	0/6380
1	F	0.19	0/4731	0.46	0/6380
1	F2	0.19	0/4772	0.43	0/6432
1	G	0.19	0/4772	0.43	0/6432
1	G2	0.19	0/4731	0.46	0/6380
1	H	0.19	0/4731	0.46	0/6380
1	H2	0.19	0/4731	0.46	0/6380
1	I	0.19	0/4772	0.43	0/6432
1	I2	0.19	0/4731	0.46	0/6380
1	J	0.19	0/4731	0.46	0/6380
1	J2	0.18	0/4731	0.46	0/6380
1	K	0.19	0/4772	0.43	0/6432
1	L	0.19	0/4772	0.43	0/6432
1	M	0.19	0/4731	0.46	0/6380
1	N	0.19	0/4772	0.43	0/6432
1	O	0.19	0/4731	0.46	0/6380
1	P	0.19	0/4772	0.43	0/6432
1	Q	0.19	0/4731	0.46	0/6380
1	R	0.19	0/4772	0.43	0/6432
1	S	0.19	0/4731	0.46	0/6380
1	T	0.19	0/4772	0.43	0/6432
1	U	0.19	0/4731	0.46	0/6380
1	V	0.19	0/4772	0.43	0/6432

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	W	0.19	0/4731	0.46	0/6380
1	X	0.19	0/4772	0.43	0/6432
1	Y	0.19	0/4731	0.46	0/6380
1	Z	0.19	0/4772	0.43	0/6432
All	All	0.19	0/171013	0.45	0/230564

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4703	0	4793	146	0
1	A2	4703	0	4793	161	0
1	B	4662	0	4750	162	0
1	B2	4662	0	4750	153	0
1	C	4703	0	4793	127	0
1	C2	4703	0	4793	169	0
1	D	4662	0	4750	158	0
1	D2	4662	0	4750	152	0
1	E	4703	0	4793	167	0
1	E2	4662	0	4750	115	0
1	F	4662	0	4750	136	0
1	F2	4703	0	4793	151	0
1	G	4703	0	4793	168	0
1	G2	4662	0	4750	157	0
1	H	4662	0	4750	134	0
1	H2	4662	0	4750	160	0
1	I	4703	0	4793	163	0
1	I2	4662	0	4750	141	0
1	J	4662	0	4750	117	0
1	J2	4662	0	4750	136	0
1	K	4703	0	4793	144	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L	4703	0	4793	128	0
1	M	4662	0	4750	158	0
1	N	4703	0	4793	138	0
1	O	4662	0	4750	157	0
1	P	4703	0	4793	168	0
1	Q	4662	0	4750	160	0
1	R	4703	0	4793	167	0
1	S	4662	0	4750	158	0
1	T	4703	0	4793	175	0
1	U	4662	0	4750	152	0
1	V	4703	0	4793	167	0
1	W	4662	0	4750	128	0
1	X	4703	0	4793	163	0
1	Y	4662	0	4750	129	0
1	Z	4703	0	4793	158	0
2	A	32	0	13	4	0
2	A2	32	0	13	3	0
2	B	32	0	13	3	0
2	B2	32	0	13	3	0
2	C	32	0	13	3	0
2	C2	32	0	13	3	0
2	D	32	0	13	3	0
2	D2	32	0	13	3	0
2	E	32	0	13	3	0
2	E2	32	0	13	3	0
2	F	32	0	13	3	0
2	F2	32	0	13	3	0
2	G	32	0	13	5	0
2	G2	32	0	13	3	0
2	H	32	0	13	3	0
2	H2	32	0	13	3	0
2	I	32	0	13	5	0
2	I2	32	0	13	3	0
2	J	32	0	13	3	0
2	J2	32	0	13	4	0
2	K	32	0	13	5	0
2	L	32	0	13	4	0
2	M	32	0	13	4	0
2	N	32	0	13	3	0
2	O	32	0	13	4	0
2	P	32	0	13	3	0
2	Q	32	0	13	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	R	32	0	13	3	0
2	S	32	0	13	4	0
2	T	32	0	13	4	0
2	U	32	0	13	3	0
2	V	32	0	13	3	0
2	W	32	0	13	3	0
2	X	32	0	13	3	0
2	Y	32	0	13	3	0
2	Z	32	0	13	4	0
3	A	1	0	0	0	0
3	A2	1	0	0	0	0
3	B	1	0	0	0	0
3	B2	1	0	0	0	0
3	C	1	0	0	0	0
3	C2	1	0	0	0	0
3	D	1	0	0	0	0
3	D2	1	0	0	0	0
3	E	1	0	0	0	0
3	E2	1	0	0	0	0
3	F	1	0	0	0	0
3	F2	1	0	0	0	0
3	G	1	0	0	0	0
3	G2	1	0	0	0	0
3	H	1	0	0	0	0
3	H2	1	0	0	0	0
3	I	1	0	0	0	0
3	I2	1	0	0	0	0
3	J	1	0	0	0	0
3	J2	1	0	0	0	0
3	K	1	0	0	0	0
3	L	1	0	0	0	0
3	M	1	0	0	0	0
3	N	1	0	0	0	0
3	O	1	0	0	0	0
3	P	1	0	0	0	0
3	Q	1	0	0	0	0
3	R	1	0	0	0	0
3	S	1	0	0	0	0
3	T	1	0	0	0	0
3	U	1	0	0	0	0
3	V	1	0	0	0	0
3	W	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	X	1	0	0	0	0
3	Y	1	0	0	0	0
3	Z	1	0	0	0	0
All	All	169717	0	172199	4535	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 13.

All (4535) 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:D:702:LEU:CD1	1:X:330:LEU:HD13	1.73	1.18
1:E:330:LEU:HD13	1:M:702:LEU:CD1	1.75	1.16
1:G:330:LEU:HD13	1:O:702:LEU:CD1	1.75	1.15
1:I:330:LEU:HD13	1:Q:702:LEU:CD1	1.77	1.15
1:V:330:LEU:HD13	1:G2:702:LEU:CD1	1.76	1.14
1:K:330:LEU:HD13	1:S:702:LEU:CD1	1.76	1.14
1:C2:330:LEU:HD13	1:J2:702:LEU:CD1	1.79	1.13
1:T:330:LEU:HD13	1:H2:702:LEU:CD1	1.77	1.13
1:R:330:LEU:HD13	1:I2:702:LEU:CD1	1.79	1.12
1:R:686:MET:HE1	1:H2:485:TYR:CD1	1.85	1.11
1:T:686:MET:HE1	1:G2:485:TYR:CD1	1.85	1.10
1:P:686:MET:HE1	1:I2:485:TYR:CD1	1.87	1.09
1:B2:702:LEU:CD1	1:F2:330:LEU:HD13	1.82	1.09
1:I:686:MET:HE1	1:S:485:TYR:CD1	1.88	1.09
1:C2:686:MET:HE1	1:M:485:TYR:CD1	1.88	1.08
1:D:702:LEU:HD13	1:X:330:LEU:HD13	1.36	1.08
1:G:686:MET:HE1	1:Q:485:TYR:CD1	1.87	1.08
1:B:702:LEU:CD1	1:Z:330:LEU:HD13	1.85	1.07
1:D:686:MET:HE1	1:V:485:TYR:CE1	1.90	1.06
1:E:330:LEU:HD13	1:M:702:LEU:HD13	1.32	1.06
1:B:407:MET:HE1	1:D:349:ASP:HA	1.35	1.05
1:C2:330:LEU:HD13	1:J2:702:LEU:HD13	1.35	1.04
1:K:330:LEU:HD13	1:S:702:LEU:HD13	1.32	1.04
1:K:686:MET:HE1	1:U:485:TYR:CD1	1.92	1.04
1:V:330:LEU:HD13	1:G2:702:LEU:HD13	1.34	1.04
1:G:330:LEU:HD13	1:O:702:LEU:HD13	1.31	1.04
1:B:400:THR:HA	1:D:364:ARG:HH21	1.23	1.04
1:B2:702:LEU:HD13	1:F2:330:LEU:HD13	1.35	1.03
1:I:330:LEU:HD13	1:Q:702:LEU:HD13	1.33	1.03
1:D2:485:TYR:CD1	1:F2:686:MET:HE1	1.93	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:702:LEU:HD13	1:Z:330:LEU:HD13	1.39	1.02
1:T:330:LEU:HD13	1:H2:702:LEU:HD13	1.36	1.02
1:A2:686:MET:HE1	1:J2:485:TYR:CD1	1.94	1.01
1:E:485:TYR:CE1	1:O:686:MET:HE1	1.94	1.01
1:K:485:TYR:CE1	1:U:686:MET:HE1	1.95	1.01
1:D:485:TYR:CD1	1:V:686:MET:HE1	1.95	1.01
1:E:686:MET:HE1	1:O:485:TYR:CD1	1.95	1.01
1:H2:407:MET:HE1	1:I2:349:ASP:HA	1.41	1.01
1:D2:686:MET:HE1	1:F2:485:TYR:CE1	1.96	1.00
1:B2:407:MET:HE1	1:B:349:ASP:HA	1.42	1.00
1:M:364:ARG:HH21	1:O:400:THR:HA	1.26	1.00
1:R:330:LEU:HD13	1:I2:702:LEU:HD13	1.39	1.00
1:A2:485:TYR:CE1	1:J2:686:MET:HE1	1.97	0.99
1:M:407:MET:HE1	1:J2:349:ASP:HA	1.42	0.99
1:O:349:ASP:HA	1:Q:407:MET:HE1	1.45	0.98
1:I:485:TYR:CE1	1:S:686:MET:HE1	1.98	0.98
1:C2:485:TYR:CE1	1:M:686:MET:HE1	1.99	0.98
1:G:485:TYR:CE1	1:Q:686:MET:HE1	1.97	0.98
1:U:349:ASP:HA	1:W:407:MET:HE1	1.46	0.97
1:H:349:ASP:HA	1:J:407:MET:HE1	1.42	0.97
1:S:349:ASP:HA	1:U:407:MET:HE1	1.45	0.97
1:G2:407:MET:HE1	1:H2:349:ASP:HA	1.42	0.97
1:Q:349:ASP:HA	1:S:407:MET:HE1	1.47	0.96
1:T:485:TYR:CE1	1:G2:686:MET:HE1	1.99	0.96
1:D:400:THR:HA	1:G2:364:ARG:HH21	1.30	0.96
1:B2:400:THR:HA	1:B:364:ARG:HH21	1.30	0.96
1:W:349:ASP:HA	1:Y:407:MET:HE1	1.47	0.96
1:F:349:ASP:HA	1:H:407:MET:HE1	1.47	0.96
1:D2:349:ASP:HA	1:F:407:MET:HE1	1.47	0.95
1:R:485:TYR:CE1	1:H2:686:MET:HE1	2.01	0.95
1:Z:407:MET:HE2	1:F2:350:GLN:H	1.31	0.95
1:D2:407:MET:HE1	1:B2:349:ASP:HA	1.47	0.95
1:P:485:TYR:CE1	1:I2:686:MET:HE1	2.02	0.95
1:G2:400:THR:HA	1:H2:364:ARG:HH21	1.31	0.95
1:D2:364:ARG:HH21	1:F:400:THR:HA	1.31	0.95
1:H:364:ARG:HH21	1:J:400:THR:HA	1.32	0.94
1:B:686:MET:HE1	1:X:485:TYR:CE1	2.02	0.94
1:B:485:TYR:CD1	1:X:686:MET:HE1	2.01	0.94
1:D:407:MET:HE1	1:G2:349:ASP:HA	1.49	0.94
1:D:686:MET:CE	1:V:485:TYR:CD1	2.51	0.93
1:S:364:ARG:HH21	1:U:400:THR:HA	1.33	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:330:LEU:HG	1:X:330:LEU:HD12	1.51	0.93
1:M:349:ASP:HA	1:O:407:MET:HE1	1.48	0.93
1:Y:364:ARG:HH21	1:E2:400:THR:HA	1.31	0.92
1:Q:364:ARG:HH21	1:S:400:THR:HA	1.33	0.92
1:M:400:THR:HA	1:J2:364:ARG:HH21	1.33	0.92
1:Y:349:ASP:HA	1:E2:407:MET:HE1	1.49	0.92
1:D:686:MET:HE1	1:V:485:TYR:CD1	2.05	0.91
1:H2:400:THR:HA	1:I2:364:ARG:HH21	1.35	0.91
1:B2:686:MET:HE1	1:Z:485:TYR:CE1	2.04	0.90
1:U:364:ARG:HH21	1:W:400:THR:HA	1.36	0.89
1:B:330:LEU:HG	1:Z:330:LEU:HD12	1.53	0.89
1:R:407:MET:HE2	1:T:350:GLN:H	1.39	0.88
1:N:686:MET:HG2	1:N:690:ILE:HD12	1.56	0.88
1:P:686:MET:HG2	1:P:690:ILE:HD12	1.56	0.88
1:C2:350:GLN:H	1:A2:407:MET:HE2	1.39	0.88
1:L:686:MET:HG2	1:L:690:ILE:HD12	1.56	0.87
1:E:407:MET:HE2	1:G:350:GLN:H	1.40	0.87
1:F:364:ARG:HH21	1:H:400:THR:HA	1.38	0.87
1:R:686:MET:HG2	1:R:690:ILE:HD12	1.56	0.87
1:D2:400:THR:HA	1:B2:364:ARG:HH21	1.40	0.87
1:B2:330:LEU:HG	1:F2:330:LEU:HD12	1.55	0.87
1:N:407:MET:HE2	1:P:350:GLN:H	1.38	0.87
1:K:686:MET:HG2	1:K:690:ILE:HD12	1.56	0.86
1:W:364:ARG:HH21	1:Y:400:THR:HA	1.38	0.86
1:A:686:MET:HG2	1:A:690:ILE:HD12	1.56	0.86
1:C:686:MET:HG2	1:C:690:ILE:HD12	1.56	0.86
1:E:485:TYR:CD1	1:O:686:MET:CE	2.59	0.85
1:T:686:MET:HG2	1:T:690:ILE:HD12	1.56	0.85
1:B2:485:TYR:CD1	1:Z:686:MET:HE1	2.10	0.85
1:G:485:TYR:CD1	1:Q:686:MET:CE	2.59	0.85
1:Z:686:MET:HG2	1:Z:690:ILE:HD12	1.56	0.85
1:F2:686:MET:HG2	1:F2:690:ILE:HD12	1.56	0.85
1:G:330:LEU:HD12	1:O:330:LEU:HG	1.58	0.85
1:I:686:MET:HG2	1:I:690:ILE:HD12	1.56	0.85
1:C2:686:MET:HG2	1:C2:690:ILE:HD12	1.56	0.85
1:A2:686:MET:HG2	1:A2:690:ILE:HD12	1.56	0.85
1:E:686:MET:HG2	1:E:690:ILE:HD12	1.56	0.85
1:K:330:LEU:HD12	1:S:330:LEU:HG	1.58	0.85
1:G:686:MET:HG2	1:G:690:ILE:HD12	1.56	0.85
1:E:330:LEU:HD12	1:M:330:LEU:HG	1.58	0.85
1:G:407:MET:HE2	1:I:350:GLN:H	1.42	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:485:TYR:CD1	1:G2:686:MET:CE	2.60	0.85
1:K:485:TYR:CD1	1:U:686:MET:CE	2.59	0.84
1:O:364:ARG:HH21	1:Q:400:THR:HA	1.38	0.84
1:C2:330:LEU:HD12	1:J2:330:LEU:HG	1.59	0.84
1:D:702:LEU:CD1	1:X:330:LEU:CD1	2.55	0.84
1:I:485:TYR:CD1	1:S:686:MET:CE	2.61	0.84
1:G:330:LEU:CD1	1:O:702:LEU:CD1	2.55	0.84
1:V:686:MET:HG2	1:V:690:ILE:HD12	1.56	0.84
1:X:686:MET:HG2	1:X:690:ILE:HD12	1.56	0.84
1:T:407:MET:HE2	1:V:350:GLN:H	1.42	0.84
1:C2:485:TYR:CD1	1:M:686:MET:CE	2.61	0.84
1:V:330:LEU:CD1	1:G2:702:LEU:CD1	2.55	0.84
1:C2:407:MET:HE2	1:E:350:GLN:H	1.43	0.83
1:A2:485:TYR:CD1	1:J2:686:MET:CE	2.62	0.83
1:D:702:LEU:HD12	1:X:330:LEU:HD13	1.58	0.83
1:K:330:LEU:CD1	1:S:702:LEU:CD1	2.57	0.83
1:D2:686:MET:CE	1:F2:485:TYR:CD1	2.61	0.83
1:R:330:LEU:HD12	1:I2:330:LEU:HG	1.59	0.83
1:E:330:LEU:CD1	1:M:702:LEU:CD1	2.55	0.83
1:I:330:LEU:HD12	1:Q:330:LEU:HG	1.60	0.83
1:I:330:LEU:CD1	1:Q:702:LEU:CD1	2.57	0.82
1:Z:458:ARG:HD3	1:F2:290:ARG:HH12	1.44	0.82
1:T:485:TYR:CD1	1:G2:686:MET:HE1	2.14	0.82
1:I:407:MET:HE2	1:K:350:GLN:H	1.44	0.82
1:P:485:TYR:CD1	1:I2:686:MET:CE	2.62	0.82
1:R:485:TYR:CD1	1:H2:686:MET:CE	2.62	0.82
1:T:330:LEU:HD12	1:H2:330:LEU:HG	1.61	0.82
1:T:330:LEU:CD1	1:H2:702:LEU:CD1	2.57	0.81
1:P:485:TYR:CD1	1:I2:686:MET:HE1	2.15	0.81
1:V:407:MET:HE2	1:X:350:GLN:H	1.45	0.81
1:V:330:LEU:HD12	1:G2:330:LEU:HG	1.62	0.81
1:P:407:MET:HE2	1:R:350:GLN:H	1.45	0.81
1:V:330:LEU:HD13	1:G2:702:LEU:HD12	1.62	0.81
1:N:465:ARG:NH1	1:P:291:ASP:OD1	2.14	0.80
1:N:458:ARG:HD3	1:P:290:ARG:HH12	1.47	0.80
1:H:388:ILE:HG22	1:H:412:ILE:HG13	1.64	0.80
1:J2:388:ILE:HG22	1:J2:412:ILE:HG13	1.64	0.80
1:C2:330:LEU:CD1	1:J2:702:LEU:CD1	2.59	0.80
1:D:388:ILE:HG22	1:D:412:ILE:HG13	1.64	0.80
1:B2:388:ILE:HG22	1:B2:412:ILE:HG13	1.64	0.80
1:R:458:ARG:HD3	1:T:290:ARG:HH12	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E2:388:ILE:HG22	1:E2:412:ILE:HG13	1.64	0.80
1:F:388:ILE:HG22	1:F:412:ILE:HG13	1.64	0.80
1:M:388:ILE:HG22	1:M:412:ILE:HG13	1.64	0.80
1:G2:388:ILE:HG22	1:G2:412:ILE:HG13	1.64	0.80
1:H2:388:ILE:HG22	1:H2:412:ILE:HG13	1.64	0.80
1:I2:388:ILE:HG22	1:I2:412:ILE:HG13	1.64	0.80
1:D2:388:ILE:HG22	1:D2:412:ILE:HG13	1.64	0.80
1:U:388:ILE:HG22	1:U:412:ILE:HG13	1.64	0.80
1:D:407:MET:SD	1:G2:348:GLY:HA3	2.22	0.79
1:J:388:ILE:HG22	1:J:412:ILE:HG13	1.64	0.79
1:K:485:TYR:CD1	1:U:686:MET:HE1	2.16	0.79
1:B:388:ILE:HG22	1:B:412:ILE:HG13	1.64	0.79
1:S:388:ILE:HG22	1:S:412:ILE:HG13	1.64	0.79
1:A2:350:GLN:H	1:A:407:MET:HE2	1.46	0.79
1:G:485:TYR:CD1	1:Q:686:MET:HE1	2.15	0.79
1:I:485:TYR:CD1	1:S:686:MET:HE1	2.16	0.79
1:O:388:ILE:HG22	1:O:412:ILE:HG13	1.64	0.79
1:Q:388:ILE:HG22	1:Q:412:ILE:HG13	1.64	0.79
1:R:485:TYR:CD1	1:H2:686:MET:HE1	2.16	0.79
1:T:330:LEU:HD13	1:H2:702:LEU:HD12	1.63	0.79
1:W:388:ILE:HG22	1:W:412:ILE:HG13	1.64	0.79
1:Y:388:ILE:HG22	1:Y:412:ILE:HG13	1.64	0.79
1:C2:290:ARG:HH12	1:A2:458:ARG:HD3	1.46	0.79
1:C2:485:TYR:CD1	1:M:686:MET:HE1	2.16	0.79
1:L:407:MET:HE2	1:N:350:GLN:H	1.48	0.79
1:A2:485:TYR:CD1	1:J2:686:MET:HE1	2.17	0.78
1:R:330:LEU:CD1	1:I2:702:LEU:CD1	2.60	0.78
1:D2:686:MET:HE1	1:F2:485:TYR:CD1	2.18	0.78
1:A:350:GLN:H	1:C:407:MET:HE2	1.46	0.78
1:T:458:ARG:HD3	1:V:290:ARG:HH12	1.48	0.78
1:A:290:ARG:HH12	1:C:458:ARG:HD3	1.49	0.78
1:E:458:ARG:HD3	1:G:290:ARG:HH12	1.48	0.78
1:E:485:TYR:CD1	1:O:686:MET:HE1	2.17	0.78
1:H2:394:ASN:ND2	1:I2:352:ASP:O	2.17	0.78
1:Z:41:SER:H	2:Z:901:GCP:H3B1	1.50	0.77
1:I:458:ARG:HD3	1:K:290:ARG:HH12	1.49	0.77
1:A:41:SER:H	2:A:901:GCP:H3B1	1.50	0.77
1:R:41:SER:H	2:R:901:GCP:H3B1	1.50	0.77
1:T:41:SER:H	2:T:901:GCP:H3B1	1.50	0.77
1:P:41:SER:H	2:P:901:GCP:H3B1	1.50	0.77
1:V:458:ARG:HD3	1:X:290:ARG:HH12	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:465:ARG:NH1	1:F2:291:ASP:OD1	2.16	0.77
1:C2:291:ASP:OD1	1:A2:465:ARG:NH1	2.17	0.77
1:D:393:LYS:HA	1:G2:361:ARG:NH2	2.00	0.77
1:V:41:SER:H	2:V:901:GCP:H3B1	1.50	0.77
1:N:41:SER:H	2:N:901:GCP:H3B1	1.50	0.77
1:X:41:SER:H	2:X:901:GCP:H3B1	1.50	0.77
1:C2:458:ARG:HD3	1:E:290:ARG:HH12	1.49	0.77
1:A2:290:ARG:HH12	1:A:458:ARG:HD3	1.49	0.77
1:F2:41:SER:H	2:F2:901:GCP:H3B1	1.50	0.77
1:C:41:SER:H	2:C:901:GCP:H3B1	1.50	0.76
1:K:41:SER:H	2:K:901:GCP:H3B1	1.50	0.76
1:L:41:SER:H	2:L:901:GCP:H3B1	1.50	0.76
1:E:41:SER:H	2:E:901:GCP:H3B1	1.50	0.76
1:B2:702:LEU:CD1	1:F2:330:LEU:CD1	2.63	0.76
1:B:686:MET:CE	1:X:485:TYR:CD1	2.68	0.76
1:I:330:LEU:HD13	1:Q:702:LEU:HD12	1.66	0.76
1:M:394:ASN:ND2	1:J2:352:ASP:O	2.17	0.76
1:E:330:LEU:HD13	1:M:702:LEU:HD12	1.65	0.76
1:G:330:LEU:HD13	1:O:702:LEU:HD12	1.66	0.76
1:X:407:MET:HE2	1:Z:350:GLN:H	1.49	0.76
1:G2:394:ASN:ND2	1:H2:352:ASP:O	2.19	0.76
1:A2:41:SER:H	2:A2:901:GCP:H3B1	1.50	0.76
1:N:466:GLU:OE2	1:P:297:ARG:NH2	2.19	0.76
1:O:348:GLY:HA3	1:Q:407:MET:SD	2.26	0.76
1:B:407:MET:HE1	1:D:349:ASP:CA	2.13	0.75
1:L:458:ARG:HD3	1:N:290:ARG:HH12	1.51	0.75
1:P:686:MET:CE	1:I2:485:TYR:CD1	2.69	0.75
1:G:41:SER:H	2:G:901:GCP:H3B1	1.50	0.75
1:C2:41:SER:H	2:C2:901:GCP:H3B1	1.50	0.75
1:P:141:THR:HG23	1:Q:182:ALA:HB1	1.68	0.75
1:T:686:MET:CE	1:G2:485:TYR:CD1	2.69	0.75
1:C2:141:THR:HG23	1:D2:182:ALA:HB1	1.68	0.75
1:A2:141:THR:HG23	1:B2:182:ALA:HB1	1.68	0.75
1:I:41:SER:H	2:I:901:GCP:H3B1	1.50	0.75
1:R:141:THR:HG23	1:S:182:ALA:HB1	1.68	0.75
1:U:348:GLY:HA3	1:W:407:MET:SD	2.27	0.75
1:N:141:THR:HG23	1:O:182:ALA:HB1	1.68	0.75
1:S:348:GLY:HA3	1:U:407:MET:SD	2.27	0.75
1:Q:348:GLY:HA3	1:S:407:MET:SD	2.26	0.75
1:W:361:ARG:NH2	1:Y:393:LYS:HA	2.02	0.75
1:D2:394:ASN:ND2	1:B2:352:ASP:O	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:451:ARG:HB2	1:D:228:ARG:HH21	1.51	0.74
1:E:141:THR:HG23	1:F:182:ALA:HB1	1.68	0.74
1:F:352:ASP:O	1:H:394:ASN:ND2	2.19	0.74
1:O:361:ARG:NH2	1:Q:393:LYS:HA	2.02	0.74
1:A:141:THR:HG23	1:B:182:ALA:HB1	1.68	0.74
1:P:458:ARG:HD3	1:R:290:ARG:HH12	1.51	0.74
1:T:141:THR:HG23	1:U:182:ALA:HB1	1.68	0.74
1:W:348:GLY:HA3	1:Y:407:MET:SD	2.27	0.74
1:B2:407:MET:SD	1:B:348:GLY:HA3	2.27	0.74
1:B:407:MET:SD	1:D:348:GLY:C	2.71	0.74
1:K:330:LEU:HD13	1:S:702:LEU:HD12	1.68	0.74
1:B:407:MET:SD	1:D:348:GLY:HA3	2.27	0.74
1:G:458:ARG:HD3	1:I:290:ARG:HH12	1.50	0.74
1:L:141:THR:HG23	1:M:182:ALA:HB1	1.68	0.74
1:B2:394:ASN:ND2	1:B:352:ASP:O	2.21	0.74
1:B:407:MET:SD	1:D:348:GLY:CA	2.76	0.74
1:H:348:GLY:HA3	1:J:407:MET:SD	2.26	0.74
1:I:141:THR:HG23	1:J:182:ALA:HB1	1.68	0.74
1:V:141:THR:HG23	1:W:182:ALA:HB1	1.68	0.74
1:R:330:LEU:HD13	1:I2:702:LEU:HD12	1.65	0.74
1:G:141:THR:HG23	1:H:182:ALA:HB1	1.68	0.74
1:Z:141:THR:HG23	1:E2:182:ALA:HB1	1.68	0.74
1:W:352:ASP:O	1:Y:394:ASN:ND2	2.21	0.74
1:J2:38:GLY:HA2	1:J2:186:ALA:HB2	1.70	0.74
1:O:353:THR:OG1	1:Q:387:GLU:OE2	2.06	0.73
1:R:686:MET:CE	1:H2:485:TYR:CD1	2.68	0.73
1:V:465:ARG:NH1	1:X:291:ASP:OD1	2.20	0.73
1:D2:348:GLY:HA3	1:F:407:MET:SD	2.27	0.73
1:E:465:ARG:NH1	1:G:291:ASP:OD1	2.18	0.73
1:X:141:THR:HG23	1:Y:182:ALA:HB1	1.68	0.73
1:F:38:GLY:HA2	1:F:186:ALA:HB2	1.70	0.73
1:H:38:GLY:HA2	1:H:186:ALA:HB2	1.70	0.73
1:Q:361:ARG:NH2	1:S:393:LYS:HA	2.03	0.73
1:S:352:ASP:O	1:U:394:ASN:ND2	2.21	0.73
1:U:352:ASP:O	1:W:394:ASN:ND2	2.21	0.73
1:G2:407:MET:SD	1:H2:348:GLY:HA3	2.28	0.73
1:D2:38:GLY:HA2	1:D2:186:ALA:HB2	1.70	0.73
1:J:38:GLY:HA2	1:J:186:ALA:HB2	1.70	0.73
1:M:38:GLY:HA2	1:M:186:ALA:HB2	1.70	0.73
1:M:352:ASP:O	1:O:394:ASN:ND2	2.20	0.73
1:Y:348:GLY:HA3	1:E2:407:MET:SD	2.28	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:352:ASP:O	1:E2:394:ASN:ND2	2.21	0.73
1:B:686:MET:HE1	1:X:485:TYR:CD1	2.23	0.73
1:K:404:THR:HG22	1:K:658:GLN:HG2	1.71	0.73
1:C2:330:LEU:HD13	1:J2:702:LEU:HD12	1.67	0.73
1:N:404:THR:HG22	1:N:658:GLN:HG2	1.71	0.73
1:P:404:THR:HG22	1:P:658:GLN:HG2	1.71	0.73
1:Q:38:GLY:HA2	1:Q:186:ALA:HB2	1.70	0.73
1:I:404:THR:HG22	1:I:658:GLN:HG2	1.71	0.73
1:L:404:THR:HG22	1:L:658:GLN:HG2	1.71	0.73
1:O:38:GLY:HA2	1:O:186:ALA:HB2	1.70	0.73
1:D:407:MET:SD	1:G2:348:GLY:CA	2.77	0.73
1:R:404:THR:HG22	1:R:658:GLN:HG2	1.71	0.73
1:F:361:ARG:NH2	1:H:393:LYS:HA	2.04	0.72
1:H:352:ASP:O	1:J:394:ASN:ND2	2.21	0.72
1:X:458:ARG:HD3	1:Z:290:ARG:HH12	1.52	0.72
1:B2:38:GLY:HA2	1:B2:186:ALA:HB2	1.70	0.72
1:Q:352:ASP:O	1:S:394:ASN:ND2	2.22	0.72
1:S:38:GLY:HA2	1:S:186:ALA:HB2	1.70	0.72
1:H2:38:GLY:HA2	1:H2:186:ALA:HB2	1.70	0.72
1:H2:407:MET:SD	1:I2:348:GLY:HA3	2.29	0.72
1:D2:393:LYS:HA	1:B2:361:ARG:NH2	2.04	0.72
1:G:404:THR:HG22	1:G:658:GLN:HG2	1.71	0.72
1:Y:361:ARG:NH2	1:E2:393:LYS:HA	2.04	0.72
1:I2:38:GLY:HA2	1:I2:186:ALA:HB2	1.70	0.72
1:E:466:GLU:OE2	1:G:297:ARG:NH2	2.23	0.72
1:T:404:THR:HG22	1:T:658:GLN:HG2	1.71	0.72
1:C2:297:ARG:NH2	1:A2:466:GLU:OE2	2.22	0.72
1:B:394:ASN:ND2	1:D:352:ASP:O	2.22	0.72
1:S:361:ARG:NH2	1:U:393:LYS:HA	2.04	0.72
1:U:361:ARG:NH2	1:W:393:LYS:HA	2.03	0.72
1:D2:352:ASP:O	1:F:394:ASN:ND2	2.22	0.72
1:M:348:GLY:HA3	1:O:407:MET:SD	2.30	0.72
1:P:465:ARG:NH1	1:R:291:ASP:OD1	2.22	0.72
1:R:465:ARG:NH1	1:T:291:ASP:OD1	2.21	0.72
1:G2:38:GLY:HA2	1:G2:186:ALA:HB2	1.70	0.72
1:D2:361:ARG:NH2	1:F:393:LYS:HA	2.04	0.72
1:E:404:THR:HG22	1:E:658:GLN:HG2	1.71	0.72
1:F:348:GLY:HA3	1:H:407:MET:SD	2.29	0.72
1:V:404:THR:HG22	1:V:658:GLN:HG2	1.71	0.72
1:A:291:ASP:OD1	1:C:465:ARG:NH1	2.22	0.72
1:X:465:ARG:NH1	1:Z:291:ASP:OD1	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:38:GLY:HA2	1:B:186:ALA:HB2	1.70	0.71
1:O:352:ASP:O	1:Q:394:ASN:ND2	2.22	0.71
1:U:38:GLY:HA2	1:U:186:ALA:HB2	1.70	0.71
1:C2:404:THR:HG22	1:C2:658:GLN:HG2	1.71	0.71
1:C2:465:ARG:NH1	1:E:291:ASP:OD1	2.21	0.71
1:U:353:THR:OG1	1:W:387:GLU:OE2	2.08	0.71
1:W:38:GLY:HA2	1:W:186:ALA:HB2	1.70	0.71
1:D2:407:MET:SD	1:B2:348:GLY:HA3	2.30	0.71
1:B:138:PRO:HD2	1:B:159:MET:HE1	1.72	0.71
1:X:404:THR:HG22	1:X:658:GLN:HG2	1.71	0.71
1:Z:466:GLU:OE2	1:F2:297:ARG:NH2	2.22	0.71
1:B2:138:PRO:HD2	1:B2:159:MET:HE1	1.72	0.71
1:D:38:GLY:HA2	1:D:186:ALA:HB2	1.70	0.71
1:D:138:PRO:HD2	1:D:159:MET:HE1	1.72	0.71
1:O:138:PRO:HD2	1:O:159:MET:HE1	1.72	0.71
1:Q:138:PRO:HD2	1:Q:159:MET:HE1	1.72	0.71
1:A2:404:THR:HG22	1:A2:658:GLN:HG2	1.71	0.71
1:V:466:GLU:OE2	1:X:297:ARG:NH2	2.23	0.71
1:K:394:ASN:OD1	1:K:394:ASN:O	2.09	0.71
1:S:138:PRO:HD2	1:S:159:MET:HE1	1.72	0.71
1:Z:404:THR:HG22	1:Z:658:GLN:HG2	1.71	0.71
1:G2:138:PRO:HD2	1:G2:159:MET:HE1	1.72	0.71
1:F:353:THR:OG1	1:H:387:GLU:OE2	2.08	0.71
1:G:394:ASN:O	1:G:394:ASN:OD1	2.09	0.71
1:M:138:PRO:HD2	1:M:159:MET:HE1	1.72	0.71
1:B2:686:MET:CE	1:Z:485:TYR:CD1	2.74	0.71
1:A:404:THR:HG22	1:A:658:GLN:HG2	1.71	0.71
1:H:361:ARG:NH2	1:J:393:LYS:HA	2.06	0.71
1:E2:38:GLY:HA2	1:E2:186:ALA:HB2	1.70	0.71
1:D2:138:PRO:HD2	1:D2:159:MET:HE1	1.72	0.71
1:E:137:LEU:HD13	1:E:160:LEU:HD22	1.73	0.71
1:L:394:ASN:OD1	1:L:394:ASN:O	2.09	0.71
1:M:407:MET:SD	1:J2:348:GLY:HA3	2.30	0.71
1:N:137:LEU:HD13	1:N:160:LEU:HD22	1.73	0.71
1:N:394:ASN:OD1	1:N:394:ASN:O	2.09	0.71
1:Y:38:GLY:HA2	1:Y:186:ALA:HB2	1.70	0.71
1:F2:404:THR:HG22	1:F2:658:GLN:HG2	1.71	0.71
1:A2:137:LEU:HD13	1:A2:160:LEU:HD22	1.73	0.70
1:C:404:THR:HG22	1:C:658:GLN:HG2	1.71	0.70
1:I:394:ASN:OD1	1:I:394:ASN:O	2.09	0.70
1:K:137:LEU:HD13	1:K:160:LEU:HD22	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:394:ASN:OD1	1:P:394:ASN:O	2.09	0.70
1:U:138:PRO:HD2	1:U:159:MET:HE1	1.72	0.70
1:E:394:ASN:OD1	1:E:394:ASN:O	2.09	0.70
1:I:137:LEU:HD13	1:I:160:LEU:HD22	1.73	0.70
1:H2:407:MET:SD	1:I2:348:GLY:C	2.74	0.70
1:G:137:LEU:HD13	1:G:160:LEU:HD22	1.73	0.70
1:J:138:PRO:HD2	1:J:159:MET:HE1	1.72	0.70
1:L:137:LEU:HD13	1:L:160:LEU:HD22	1.73	0.70
1:E2:138:PRO:HD2	1:E2:159:MET:HE1	1.72	0.70
1:H2:138:PRO:HD2	1:H2:159:MET:HE1	1.72	0.70
1:J2:138:PRO:HD2	1:J2:159:MET:HE1	1.72	0.70
1:C2:137:LEU:HD13	1:C2:160:LEU:HD22	1.73	0.70
1:H:348:GLY:CA	1:J:407:MET:SD	2.79	0.70
1:H:349:ASP:CA	1:J:407:MET:HE1	2.21	0.70
1:C2:394:ASN:O	1:C2:394:ASN:OD1	2.09	0.70
1:B2:407:MET:SD	1:B:348:GLY:CA	2.80	0.70
1:A:137:LEU:HD13	1:A:160:LEU:HD22	1.73	0.70
1:B:702:LEU:CD1	1:Z:330:LEU:CD1	2.66	0.70
1:C:394:ASN:OD1	1:C:394:ASN:O	2.09	0.70
1:M:361:ARG:NH2	1:O:393:LYS:HA	2.07	0.70
1:X:394:ASN:OD1	1:X:394:ASN:O	2.09	0.70
1:G2:387:GLU:OE2	1:H2:353:THR:OG1	2.10	0.70
1:H2:387:GLU:OE2	1:I2:353:THR:OG1	2.09	0.70
1:A2:291:ASP:OD1	1:A:465:ARG:NH1	2.23	0.70
1:B:397:GLY:CA	1:D:360:ALA:HB1	2.22	0.70
1:F:138:PRO:HD2	1:F:159:MET:HE1	1.72	0.70
1:P:137:LEU:HD13	1:P:160:LEU:HD22	1.73	0.70
1:W:138:PRO:HD2	1:W:159:MET:HE1	1.72	0.70
1:Z:394:ASN:O	1:Z:394:ASN:OD1	2.09	0.70
1:F2:394:ASN:O	1:F2:394:ASN:OD1	2.09	0.70
1:I2:138:PRO:HD2	1:I2:159:MET:HE1	1.72	0.70
1:R:394:ASN:O	1:R:394:ASN:OD1	2.09	0.70
1:C2:376:LYS:HE3	1:C2:377:MET:HE2	1.74	0.70
1:A2:376:LYS:HE3	1:A2:377:MET:HE2	1.74	0.70
1:A2:394:ASN:O	1:A2:394:ASN:OD1	2.09	0.70
1:N:376:LYS:HE3	1:N:377:MET:HE2	1.74	0.70
1:O:348:GLY:CA	1:Q:407:MET:SD	2.80	0.70
1:V:394:ASN:OD1	1:V:394:ASN:O	2.09	0.70
1:A:376:LYS:HE3	1:A:377:MET:HE2	1.74	0.70
1:A:394:ASN:OD1	1:A:394:ASN:O	2.09	0.70
1:R:137:LEU:HD13	1:R:160:LEU:HD22	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:465:ARG:NH1	1:V:291:ASP:OD1	2.22	0.70
1:F2:137:LEU:HD13	1:F2:160:LEU:HD22	1.73	0.70
1:G:686:MET:CE	1:Q:485:TYR:CD1	2.72	0.69
1:P:376:LYS:HE3	1:P:377:MET:HE2	1.74	0.69
1:T:137:LEU:HD13	1:T:160:LEU:HD22	1.73	0.69
1:T:394:ASN:OD1	1:T:394:ASN:O	2.09	0.69
1:Y:138:PRO:HD2	1:Y:159:MET:HE1	1.72	0.69
1:G:465:ARG:NH1	1:I:291:ASP:OD1	2.21	0.69
1:H:138:PRO:HD2	1:H:159:MET:HE1	1.72	0.69
1:H:348:GLY:C	1:J:407:MET:SD	2.75	0.69
1:V:137:LEU:HD13	1:V:160:LEU:HD22	1.73	0.69
1:G2:407:MET:SD	1:H2:348:GLY:C	2.75	0.69
1:C:137:LEU:HD13	1:C:160:LEU:HD22	1.73	0.69
1:L:376:LYS:HE3	1:L:377:MET:HE2	1.74	0.69
1:O:348:GLY:C	1:Q:407:MET:SD	2.76	0.69
1:E:376:LYS:HE3	1:E:377:MET:HE2	1.74	0.69
1:I:465:ARG:NH1	1:K:291:ASP:OD1	2.20	0.69
1:K:485:TYR:CE1	1:U:686:MET:CE	2.75	0.69
1:R:376:LYS:HE3	1:R:377:MET:HE2	1.74	0.69
1:S:348:GLY:CA	1:U:407:MET:SD	2.81	0.69
1:X:137:LEU:HD13	1:X:160:LEU:HD22	1.73	0.69
1:C:376:LYS:HE3	1:C:377:MET:HE2	1.74	0.69
1:D:387:GLU:OE2	1:G2:353:THR:OG1	2.09	0.69
1:G:455:GLU:OE2	1:G:458:ARG:NH1	2.26	0.69
1:Z:137:LEU:HD13	1:Z:160:LEU:HD22	1.73	0.69
1:B2:393:LYS:HA	1:B:361:ARG:NH2	2.07	0.69
1:C:455:GLU:OE2	1:C:458:ARG:NH1	2.26	0.69
1:E:342:LYS:HD3	1:E:351:ILE:HG23	1.75	0.69
1:I:342:LYS:HD3	1:I:351:ILE:HG23	1.75	0.69
1:G2:407:MET:SD	1:H2:348:GLY:CA	2.81	0.69
1:C:141:THR:HG23	1:D:182:ALA:HB1	1.74	0.69
1:E:485:TYR:CE1	1:O:686:MET:CE	2.74	0.69
1:G:466:GLU:OE2	1:I:297:ARG:NH2	2.26	0.69
1:P:455:GLU:OE2	1:P:458:ARG:NH1	2.26	0.69
1:R:466:GLU:OE2	1:T:297:ARG:NH2	2.25	0.69
1:T:376:LYS:HE3	1:T:377:MET:HE2	1.74	0.69
1:G2:407:MET:HE1	1:H2:349:ASP:CA	2.21	0.69
1:A:455:GLU:OE2	1:A:458:ARG:NH1	2.26	0.69
1:E:455:GLU:OE2	1:E:458:ARG:NH1	2.26	0.69
1:G:376:LYS:HE3	1:G:377:MET:HE2	1.74	0.69
1:M:393:LYS:HA	1:J2:361:ARG:NH2	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:407:MET:SD	1:J2:348:GLY:C	2.76	0.69
1:N:342:LYS:HD3	1:N:351:ILE:HG23	1.75	0.69
1:Q:348:GLY:CA	1:S:407:MET:SD	2.81	0.69
1:V:455:GLU:OE2	1:V:458:ARG:NH1	2.26	0.69
1:A2:342:LYS:HD3	1:A2:351:ILE:HG23	1.75	0.69
1:G2:393:LYS:HA	1:H2:361:ARG:NH2	2.08	0.69
1:I:455:GLU:OE2	1:I:458:ARG:NH1	2.26	0.69
1:K:376:LYS:HE3	1:K:377:MET:HE2	1.74	0.69
1:R:342:LYS:HD3	1:R:351:ILE:HG23	1.75	0.69
1:X:455:GLU:OE2	1:X:458:ARG:NH1	2.26	0.69
1:H2:393:LYS:HA	1:I2:361:ARG:NH2	2.08	0.69
1:B2:407:MET:SD	1:B:348:GLY:C	2.75	0.68
1:K:455:GLU:OE2	1:K:458:ARG:NH1	2.26	0.68
1:P:342:LYS:HD3	1:P:351:ILE:HG23	1.75	0.68
1:S:353:THR:OG1	1:U:387:GLU:OE2	2.09	0.68
1:T:455:GLU:OE2	1:T:458:ARG:NH1	2.26	0.68
1:W:361:ARG:HD3	1:W:364:ARG:HB3	1.75	0.68
1:O:349:ASP:CA	1:Q:407:MET:HE1	2.23	0.68
1:R:455:GLU:OE2	1:R:458:ARG:NH1	2.26	0.68
1:U:361:ARG:HD3	1:U:364:ARG:HB3	1.75	0.68
1:V:376:LYS:HE3	1:V:377:MET:HE2	1.74	0.68
1:Y:361:ARG:HD3	1:Y:364:ARG:HB3	1.75	0.68
1:I2:361:ARG:HD3	1:I2:364:ARG:HB3	1.75	0.68
1:D:394:ASN:ND2	1:G2:352:ASP:O	2.27	0.68
1:L:455:GLU:OE2	1:L:458:ARG:NH1	2.26	0.68
1:H2:361:ARG:HD3	1:H2:364:ARG:HB3	1.75	0.68
1:C2:455:GLU:OE2	1:C2:458:ARG:NH1	2.26	0.68
1:C2:466:GLU:OE2	1:E:297:ARG:NH2	2.26	0.68
1:I:466:GLU:OE2	1:K:297:ARG:NH2	2.26	0.68
1:N:455:GLU:OE2	1:N:458:ARG:NH1	2.26	0.68
1:S:361:ARG:HD3	1:S:364:ARG:HB3	1.75	0.68
1:V:342:LYS:HD3	1:V:351:ILE:HG23	1.75	0.68
1:Z:455:GLU:OE2	1:Z:458:ARG:NH1	2.26	0.68
1:E2:361:ARG:HD3	1:E2:364:ARG:HB3	1.75	0.68
1:D2:348:GLY:CA	1:F:407:MET:SD	2.81	0.68
1:A2:455:GLU:OE2	1:A2:458:ARG:NH1	2.26	0.68
1:A:297:ARG:NH2	1:C:466:GLU:OE2	2.25	0.68
1:S:348:GLY:C	1:U:407:MET:SD	2.77	0.68
1:U:348:GLY:CA	1:W:407:MET:SD	2.81	0.68
1:B2:387:GLU:OE2	1:B:353:THR:OG1	2.10	0.68
1:C:342:LYS:HD3	1:C:351:ILE:HG23	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:686:MET:CE	1:S:485:TYR:CD1	2.73	0.68
1:T:342:LYS:HD3	1:T:351:ILE:HG23	1.75	0.68
1:X:376:LYS:HE3	1:X:377:MET:HE2	1.74	0.68
1:Z:342:LYS:HD3	1:Z:351:ILE:HG23	1.75	0.68
1:G2:361:ARG:HD3	1:G2:364:ARG:HB3	1.75	0.68
1:H2:407:MET:SD	1:I2:348:GLY:CA	2.82	0.68
1:C2:686:MET:CE	1:M:485:TYR:CD1	2.72	0.68
1:D2:686:MET:HE1	1:F2:485:TYR:HE1	1.59	0.68
1:F:361:ARG:HD3	1:F:364:ARG:HB3	1.75	0.68
1:L:342:LYS:HD3	1:L:351:ILE:HG23	1.75	0.68
1:F2:455:GLU:OE2	1:F2:458:ARG:NH1	2.26	0.68
1:D2:361:ARG:HD3	1:D2:364:ARG:HB3	1.75	0.68
1:D:361:ARG:HD3	1:D:364:ARG:HB3	1.75	0.68
1:H:361:ARG:HD3	1:H:364:ARG:HB3	1.75	0.68
1:I:376:LYS:HE3	1:I:377:MET:HE2	1.74	0.68
1:T:687:HIS:HB2	1:G2:484:ALA:HB2	1.76	0.68
1:J2:361:ARG:HD3	1:J2:364:ARG:HB3	1.75	0.68
1:K:342:LYS:HD3	1:K:351:ILE:HG23	1.75	0.68
1:P:432:ILE:HD11	1:P:689:MET:HE3	1.76	0.68
1:Q:361:ARG:HD3	1:Q:364:ARG:HB3	1.75	0.68
1:R:432:ILE:HD11	1:R:689:MET:HE3	1.76	0.68
1:Z:376:LYS:HE3	1:Z:377:MET:HE2	1.74	0.68
1:H2:407:MET:HE1	1:I2:349:ASP:CA	2.21	0.68
1:B2:407:MET:HE1	1:B:349:ASP:CA	2.21	0.68
1:N:432:ILE:HD11	1:N:689:MET:HE3	1.76	0.68
1:U:348:GLY:C	1:W:407:MET:SD	2.77	0.68
1:B2:361:ARG:HD3	1:B2:364:ARG:HB3	1.75	0.67
1:K:432:ILE:HD11	1:K:689:MET:HE3	1.76	0.67
1:F2:376:LYS:HE3	1:F2:377:MET:HE2	1.74	0.67
1:D2:353:THR:OG1	1:F:387:GLU:OE2	2.10	0.67
1:D:686:MET:HE3	1:V:485:TYR:CD1	2.29	0.67
1:E:485:TYR:HE1	1:O:686:MET:HE1	1.56	0.67
1:T:432:ILE:HD11	1:T:689:MET:HE3	1.76	0.67
1:T:466:GLU:OE2	1:V:297:ARG:NH2	2.25	0.67
1:C2:117:PRO:HA	1:C2:159:MET:HE2	1.76	0.67
1:D2:387:GLU:OE2	1:B2:353:THR:OG1	2.08	0.67
1:J:361:ARG:HD3	1:J:364:ARG:HB3	1.75	0.67
1:M:361:ARG:HD3	1:M:364:ARG:HB3	1.75	0.67
1:P:687:HIS:HB2	1:I2:484:ALA:HB2	1.77	0.67
1:R:687:HIS:HB2	1:H2:484:ALA:HB2	1.76	0.67
1:X:432:ILE:HD11	1:X:689:MET:HE3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:117:PRO:HA	1:A2:159:MET:HE2	1.76	0.67
1:P:466:GLU:OE2	1:R:297:ARG:NH2	2.25	0.67
1:C2:342:LYS:HD3	1:C2:351:ILE:HG23	1.75	0.67
1:A2:297:ARG:NH2	1:A:466:GLU:OE2	2.27	0.67
1:B:361:ARG:HD3	1:B:364:ARG:HB3	1.75	0.67
1:E:117:PRO:HA	1:E:159:MET:HE2	1.76	0.67
1:G:342:LYS:HD3	1:G:351:ILE:HG23	1.75	0.67
1:H:353:THR:OG1	1:J:387:GLU:OE2	2.09	0.67
1:L:432:ILE:HD11	1:L:689:MET:HE3	1.76	0.67
1:O:361:ARG:HD3	1:O:364:ARG:HB3	1.75	0.67
1:Q:348:GLY:C	1:S:407:MET:SD	2.78	0.67
1:V:432:ILE:HD11	1:V:689:MET:HE3	1.76	0.67
1:X:342:LYS:HD3	1:X:351:ILE:HG23	1.75	0.67
1:I:432:ILE:HD11	1:I:689:MET:HE3	1.76	0.67
1:W:348:GLY:C	1:Y:407:MET:SD	2.78	0.67
1:W:348:GLY:CA	1:Y:407:MET:SD	2.83	0.67
1:K:485:TYR:HE1	1:U:686:MET:HE1	1.58	0.67
1:M:407:MET:SD	1:J2:348:GLY:CA	2.83	0.67
1:W:353:THR:OG1	1:Y:387:GLU:OE2	2.08	0.67
1:Z:432:ILE:HD11	1:Z:689:MET:HE3	1.76	0.67
1:T:73:LEU:HB3	1:T:129:VAL:HB	1.77	0.67
1:A2:73:LEU:HB3	1:A2:129:VAL:HB	1.77	0.67
1:Y:348:GLY:CA	1:E2:407:MET:SD	2.83	0.67
1:C2:73:LEU:HB3	1:C2:129:VAL:HB	1.77	0.67
1:E:73:LEU:HB3	1:E:129:VAL:HB	1.77	0.67
1:G:73:LEU:HB3	1:G:129:VAL:HB	1.77	0.67
1:K:73:LEU:HB3	1:K:129:VAL:HB	1.77	0.67
1:V:73:LEU:HB3	1:V:129:VAL:HB	1.77	0.67
1:X:466:GLU:OE2	1:Z:297:ARG:NH2	2.27	0.67
1:N:73:LEU:HB3	1:N:129:VAL:HB	1.77	0.66
1:R:73:LEU:HB3	1:R:129:VAL:HB	1.77	0.66
1:J2:311:VAL:HG12	1:J2:315:LYS:HE2	1.78	0.66
1:A:73:LEU:HB3	1:A:129:VAL:HB	1.77	0.66
1:A:117:PRO:HA	1:A:159:MET:HE2	1.77	0.66
1:G:117:PRO:HA	1:G:159:MET:HE2	1.77	0.66
1:H:311:VAL:HG12	1:H:315:LYS:HE2	1.78	0.66
1:P:73:LEU:HB3	1:P:129:VAL:HB	1.77	0.66
1:I2:311:VAL:HG12	1:I2:315:LYS:HE2	1.78	0.66
1:A2:432:ILE:HD11	1:A2:689:MET:HE3	1.76	0.66
1:F:311:VAL:HG12	1:F:315:LYS:HE2	1.78	0.66
1:U:311:VAL:HG12	1:U:315:LYS:HE2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:117:PRO:HA	1:V:159:MET:HE2	1.76	0.66
1:E2:311:VAL:HG12	1:E2:315:LYS:HE2	1.78	0.66
1:F2:73:LEU:HB3	1:F2:129:VAL:HB	1.77	0.66
1:A:342:LYS:HD3	1:A:351:ILE:HG23	1.75	0.66
1:A:432:ILE:HD11	1:A:689:MET:HE3	1.76	0.66
1:D:407:MET:SD	1:G2:348:GLY:C	2.78	0.66
1:L:73:LEU:HB3	1:L:129:VAL:HB	1.77	0.66
1:L:117:PRO:HA	1:L:159:MET:HE2	1.76	0.66
1:M:311:VAL:HG12	1:M:315:LYS:HE2	1.78	0.66
1:W:311:VAL:HG12	1:W:315:LYS:HE2	1.78	0.66
1:F2:342:LYS:HD3	1:F2:351:ILE:HG23	1.75	0.66
1:G2:311:VAL:HG12	1:G2:315:LYS:HE2	1.78	0.66
1:D2:348:GLY:C	1:F:407:MET:SD	2.78	0.66
1:C:432:ILE:HD11	1:C:689:MET:HE3	1.76	0.66
1:D:311:VAL:HG12	1:D:315:LYS:HE2	1.78	0.66
1:F:348:GLY:CA	1:H:407:MET:SD	2.84	0.66
1:F:348:GLY:C	1:H:407:MET:SD	2.79	0.66
1:S:311:VAL:HG12	1:S:315:LYS:HE2	1.78	0.66
1:Y:311:VAL:HG12	1:Y:315:LYS:HE2	1.77	0.66
1:H2:311:VAL:HG12	1:H2:315:LYS:HE2	1.78	0.66
1:B2:311:VAL:HG12	1:B2:315:LYS:HE2	1.78	0.66
1:E:432:ILE:HD11	1:E:689:MET:HE3	1.76	0.66
1:G:432:ILE:HD11	1:G:689:MET:HE3	1.76	0.66
1:N:117:PRO:HA	1:N:159:MET:HE2	1.76	0.66
1:Q:311:VAL:HG12	1:Q:315:LYS:HE2	1.78	0.66
1:T:117:PRO:HA	1:T:159:MET:HE2	1.76	0.66
1:U:349:ASP:CA	1:W:407:MET:HE1	2.24	0.66
1:X:73:LEU:HB3	1:X:129:VAL:HB	1.77	0.66
1:Z:73:LEU:HB3	1:Z:129:VAL:HB	1.77	0.66
1:F2:432:ILE:HD11	1:F2:689:MET:HE3	1.76	0.66
1:C2:432:ILE:HD11	1:C2:689:MET:HE3	1.76	0.66
1:C:73:LEU:HB3	1:C:129:VAL:HB	1.77	0.66
1:J:311:VAL:HG12	1:J:315:LYS:HE2	1.78	0.66
1:R:117:PRO:HA	1:R:159:MET:HE2	1.77	0.66
1:D2:311:VAL:HG12	1:D2:315:LYS:HE2	1.78	0.66
1:E:417:VAL:HG12	1:E:670:MET:HE1	1.78	0.66
1:I:73:LEU:HB3	1:I:129:VAL:HB	1.77	0.66
1:M:348:GLY:CA	1:O:407:MET:SD	2.83	0.66
1:O:311:VAL:HG12	1:O:315:LYS:HE2	1.78	0.66
1:W:361:ARG:HH12	1:Y:393:LYS:HG2	1.61	0.66
1:Z:407:MET:HE2	1:F2:350:GLN:N	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:417:VAL:HG12	1:G:670:MET:HE1	1.78	0.66
1:M:407:MET:HE1	1:J2:349:ASP:CA	2.22	0.66
1:D:407:MET:HE1	1:G2:349:ASP:CA	2.24	0.66
1:B:311:VAL:HG12	1:B:315:LYS:HE2	1.78	0.65
1:I:417:VAL:HG12	1:I:670:MET:HE1	1.78	0.65
1:P:117:PRO:HA	1:P:159:MET:HE2	1.77	0.65
1:Z:117:PRO:HA	1:Z:159:MET:HE2	1.76	0.65
1:A2:417:VAL:HG12	1:A2:670:MET:HE1	1.78	0.65
1:C:117:PRO:HA	1:C:159:MET:HE2	1.77	0.65
1:I:117:PRO:HA	1:I:159:MET:HE2	1.76	0.65
1:X:117:PRO:HA	1:X:159:MET:HE2	1.77	0.65
1:D:393:LYS:HG2	1:G2:361:ARG:HH12	1.60	0.65
1:Q:353:THR:OG1	1:S:387:GLU:OE2	2.09	0.65
1:Y:353:THR:OG1	1:E2:387:GLU:OE2	2.12	0.65
1:C2:417:VAL:HG12	1:C2:670:MET:HE1	1.78	0.65
1:D2:407:MET:SD	1:B2:348:GLY:C	2.79	0.65
1:K:417:VAL:HG12	1:K:670:MET:HE1	1.78	0.65
1:B2:686:MET:HE1	1:Z:485:TYR:CD1	2.31	0.65
1:O:361:ARG:HH12	1:Q:393:LYS:HG2	1.60	0.65
1:F2:117:PRO:HA	1:F2:159:MET:HE2	1.76	0.65
1:A2:485:TYR:CE1	1:J2:686:MET:CE	2.78	0.65
1:L:417:VAL:HG12	1:L:670:MET:HE1	1.78	0.65
1:A:417:VAL:HG12	1:A:670:MET:HE1	1.78	0.65
1:N:417:VAL:HG12	1:N:670:MET:HE1	1.78	0.65
1:S:349:ASP:CA	1:U:407:MET:HE1	2.23	0.65
1:A2:686:MET:CE	1:J2:485:TYR:CD1	2.77	0.65
1:B2:51:PHE:HD1	1:B2:278:GLN:HG2	1.62	0.65
1:P:36:VAL:HG12	1:P:172:LEU:HB2	1.79	0.65
1:V:417:VAL:HG12	1:V:670:MET:HE1	1.78	0.65
1:K:117:PRO:HA	1:K:159:MET:HE2	1.77	0.65
1:N:36:VAL:HG12	1:N:172:LEU:HB2	1.79	0.65
1:R:36:VAL:HG12	1:R:172:LEU:HB2	1.79	0.65
1:V:36:VAL:HG12	1:V:172:LEU:HB2	1.79	0.65
1:C2:36:VAL:HG12	1:C2:172:LEU:HB2	1.79	0.65
1:A2:36:VAL:HG12	1:A2:172:LEU:HB2	1.79	0.65
1:B:51:PHE:HD1	1:B:278:GLN:HG2	1.62	0.65
1:G:36:VAL:HG12	1:G:172:LEU:HB2	1.79	0.65
1:I:36:VAL:HG12	1:I:172:LEU:HB2	1.79	0.65
1:K:36:VAL:HG12	1:K:172:LEU:HB2	1.79	0.65
1:M:51:PHE:HD1	1:M:278:GLN:HG2	1.62	0.65
1:S:51:PHE:HD1	1:S:278:GLN:HG2	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D2:51:PHE:HD1	1:D2:278:GLN:HG2	1.62	0.64
1:D2:349:ASP:CA	1:F:407:MET:HE1	2.25	0.64
1:D2:686:MET:CE	1:F2:485:TYR:CE1	2.77	0.64
1:Z:417:VAL:HG12	1:Z:670:MET:HE1	1.78	0.64
1:I:717:GLU:HB3	1:I:721:GLN:HE21	1.63	0.64
1:L:36:VAL:HG12	1:L:172:LEU:HB2	1.79	0.64
1:X:36:VAL:HG12	1:X:172:LEU:HB2	1.79	0.64
1:B:393:LYS:HA	1:D:361:ARG:NH2	2.12	0.64
1:C:36:VAL:HG12	1:C:172:LEU:HB2	1.79	0.64
1:E:717:GLU:HB3	1:E:721:GLN:HE21	1.63	0.64
1:G:717:GLU:HB3	1:G:721:GLN:HE21	1.63	0.64
1:K:717:GLU:HB3	1:K:721:GLN:HE21	1.63	0.64
1:T:36:VAL:HG12	1:T:172:LEU:HB2	1.79	0.64
1:D:51:PHE:HD1	1:D:278:GLN:HG2	1.62	0.64
1:E:36:VAL:HG12	1:E:172:LEU:HB2	1.79	0.64
1:P:417:VAL:HG12	1:P:670:MET:HE1	1.78	0.64
1:Q:51:PHE:HD1	1:Q:278:GLN:HG2	1.62	0.64
1:U:361:ARG:HH12	1:W:393:LYS:HG2	1.62	0.64
1:Y:348:GLY:C	1:E2:407:MET:SD	2.81	0.64
1:G2:44:LYS:NZ	2:G2:901:GCP:O2B	2.30	0.64
1:C2:717:GLU:HB3	1:C2:721:GLN:HE21	1.63	0.64
1:D:44:LYS:NZ	2:D:901:GCP:O2B	2.30	0.64
1:F2:36:VAL:HG12	1:F2:172:LEU:HB2	1.79	0.64
1:D2:407:MET:SD	1:B2:348:GLY:CA	2.85	0.64
1:B2:44:LYS:NZ	2:B2:901:GCP:O2B	2.30	0.64
1:C:417:VAL:HG12	1:C:670:MET:HE1	1.78	0.64
1:S:44:LYS:NZ	2:S:901:GCP:O2B	2.30	0.64
1:Z:36:VAL:HG12	1:Z:172:LEU:HB2	1.79	0.64
1:E2:44:LYS:NZ	2:E2:901:GCP:O2B	2.30	0.64
1:D2:44:LYS:NZ	2:D2:901:GCP:O2B	2.30	0.64
1:A:36:VAL:HG12	1:A:172:LEU:HB2	1.79	0.64
1:F:349:ASP:CA	1:H:407:MET:HE1	2.26	0.64
1:G:485:TYR:HE1	1:Q:686:MET:HE1	1.60	0.64
1:L:717:GLU:HB3	1:L:721:GLN:HE21	1.63	0.64
1:M:348:GLY:C	1:O:407:MET:SD	2.81	0.64
1:Q:44:LYS:NZ	2:Q:901:GCP:O2B	2.30	0.64
1:T:417:VAL:HG12	1:T:670:MET:HE1	1.78	0.64
1:E2:51:PHE:HD1	1:E2:278:GLN:HG2	1.62	0.64
1:J2:51:PHE:HD1	1:J2:278:GLN:HG2	1.62	0.64
1:D2:95:GLU:OE1	1:D2:98:ARG:NH2	2.31	0.64
1:A2:717:GLU:HB3	1:A2:721:GLN:HE21	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:51:PHE:HD1	1:F:278:GLN:HG2	1.62	0.64
1:J:51:PHE:HD1	1:J:278:GLN:HG2	1.62	0.64
1:M:353:THR:OG1	1:O:387:GLU:OE2	2.14	0.64
1:O:51:PHE:HD1	1:O:278:GLN:HG2	1.62	0.64
1:R:417:VAL:HG12	1:R:670:MET:HE1	1.78	0.64
1:F:95:GLU:OE1	1:F:98:ARG:NH2	2.31	0.64
1:Y:51:PHE:HD1	1:Y:278:GLN:HG2	1.62	0.64
1:D2:361:ARG:HH12	1:F:393:LYS:HG2	1.63	0.64
1:Q:361:ARG:HH12	1:S:393:LYS:HG2	1.62	0.64
1:F2:417:VAL:HG12	1:F2:670:MET:HE1	1.78	0.64
1:G2:51:PHE:HD1	1:G2:278:GLN:HG2	1.62	0.64
1:H2:51:PHE:HD1	1:H2:278:GLN:HG2	1.62	0.64
1:J2:44:LYS:NZ	2:J2:901:GCP:O2B	2.30	0.64
1:E:485:TYR:CD1	1:O:686:MET:HE3	2.32	0.63
1:W:51:PHE:HD1	1:W:278:GLN:HG2	1.62	0.63
1:Y:44:LYS:NZ	2:Y:901:GCP:O2B	2.30	0.63
1:A:717:GLU:HB3	1:A:721:GLN:HE21	1.63	0.63
1:C:717:GLU:HB3	1:C:721:GLN:HE21	1.63	0.63
1:D:95:GLU:OE1	1:D:98:ARG:NH2	2.31	0.63
1:R:717:GLU:HB3	1:R:721:GLN:HE21	1.63	0.63
1:X:417:VAL:HG12	1:X:670:MET:HE1	1.78	0.63
1:I2:51:PHE:HD1	1:I2:278:GLN:HG2	1.62	0.63
1:I:485:TYR:HE1	1:S:686:MET:HE1	1.61	0.63
1:N:717:GLU:HB3	1:N:721:GLN:HE21	1.63	0.63
1:P:717:GLU:HB3	1:P:721:GLN:HE21	1.63	0.63
1:J2:95:GLU:OE1	1:J2:98:ARG:NH2	2.31	0.63
1:H:361:ARG:HH12	1:J:393:LYS:HG2	1.64	0.63
1:M:349:ASP:CA	1:O:407:MET:HE1	2.26	0.63
1:H2:44:LYS:NZ	2:H2:901:GCP:O2B	2.30	0.63
1:J2:104:GLU:OE1	1:J2:107:ARG:NH2	2.32	0.63
1:D2:393:LYS:HG2	1:B2:361:ARG:HH12	1.63	0.63
1:B:44:LYS:NZ	2:B:901:GCP:O2B	2.30	0.63
1:B:95:GLU:OE1	1:B:98:ARG:NH2	2.31	0.63
1:B:702:LEU:HD12	1:Z:330:LEU:HD13	1.78	0.63
1:F:361:ARG:HH12	1:H:393:LYS:HG2	1.63	0.63
1:J:104:GLU:OE1	1:J:107:ARG:NH2	2.32	0.63
1:M:104:GLU:OE1	1:M:107:ARG:NH2	2.32	0.63
1:U:51:PHE:HD1	1:U:278:GLN:HG2	1.62	0.63
1:G2:162:GLN:O	1:G2:166:LYS:NZ	2.32	0.63
1:J2:162:GLN:O	1:J2:166:LYS:NZ	2.32	0.63
1:B2:95:GLU:OE1	1:B2:98:ARG:NH2	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:162:GLN:O	1:M:166:LYS:NZ	2.32	0.63
1:Y:361:ARG:HH12	1:E2:393:LYS:HG2	1.63	0.63
1:B:104:GLU:OE1	1:B:107:ARG:NH2	2.32	0.63
1:F:44:LYS:NZ	2:F:901:GCP:O2B	2.30	0.63
1:H:51:PHE:HD1	1:H:278:GLN:HG2	1.62	0.63
1:O:44:LYS:NZ	2:O:901:GCP:O2B	2.30	0.63
1:O:162:GLN:O	1:O:166:LYS:NZ	2.32	0.63
1:Y:104:GLU:OE1	1:Y:107:ARG:NH2	2.32	0.63
1:E2:104:GLU:OE1	1:E2:107:ARG:NH2	2.32	0.63
1:G2:95:GLU:OE1	1:G2:98:ARG:NH2	2.31	0.63
1:I2:44:LYS:NZ	2:I2:901:GCP:O2B	2.30	0.63
1:C2:687:HIS:HB2	1:M:484:ALA:HB2	1.80	0.63
1:B2:104:GLU:OE1	1:B2:107:ARG:NH2	2.32	0.63
1:H:95:GLU:OE1	1:H:98:ARG:NH2	2.31	0.63
1:J:162:GLN:O	1:J:166:LYS:NZ	2.32	0.63
1:M:387:GLU:OE2	1:J2:353:THR:OG1	2.10	0.63
1:E2:95:GLU:OE1	1:E2:98:ARG:NH2	2.31	0.63
1:D:162:GLN:O	1:D:166:LYS:NZ	2.32	0.62
1:J:49:GLU:HB3	1:J:57:LEU:HD12	1.81	0.62
1:K:686:MET:CE	1:U:485:TYR:CD1	2.77	0.62
1:Q:162:GLN:O	1:Q:166:LYS:NZ	2.32	0.62
1:H2:162:GLN:O	1:H2:166:LYS:NZ	2.32	0.62
1:B2:702:LEU:HD12	1:F2:330:LEU:HD13	1.76	0.62
1:H:44:LYS:NZ	2:H:901:GCP:O2B	2.30	0.62
1:H:104:GLU:OE1	1:H:107:ARG:NH2	2.32	0.62
1:U:44:LYS:NZ	2:U:901:GCP:O2B	2.30	0.62
1:W:104:GLU:OE1	1:W:107:ARG:NH2	2.32	0.62
1:X:717:GLU:HB3	1:X:721:GLN:HE21	1.63	0.62
1:B:387:GLU:OE2	1:D:353:THR:OG1	2.12	0.62
1:G:687:HIS:HB2	1:Q:484:ALA:HB2	1.79	0.62
1:H:49:GLU:HB3	1:H:57:LEU:HD12	1.82	0.62
1:H:162:GLN:O	1:H:166:LYS:NZ	2.32	0.62
1:J:44:LYS:NZ	2:J:901:GCP:O2B	2.30	0.62
1:O:104:GLU:OE1	1:O:107:ARG:NH2	2.32	0.62
1:J:95:GLU:OE1	1:J:98:ARG:NH2	2.31	0.62
1:S:104:GLU:OE1	1:S:107:ARG:NH2	2.32	0.62
1:U:162:GLN:O	1:U:166:LYS:NZ	2.32	0.62
1:W:162:GLN:O	1:W:166:LYS:NZ	2.32	0.62
1:I2:162:GLN:O	1:I2:166:LYS:NZ	2.32	0.62
1:D2:104:GLU:OE1	1:D2:107:ARG:NH2	2.32	0.62
1:D2:162:GLN:O	1:D2:166:LYS:NZ	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:485:TYR:HE1	1:J2:686:MET:HE1	1.61	0.62
1:O:49:GLU:HB3	1:O:57:LEU:HD12	1.82	0.62
1:S:49:GLU:HB3	1:S:57:LEU:HD12	1.82	0.62
1:Y:162:GLN:O	1:Y:166:LYS:NZ	2.32	0.62
1:B2:162:GLN:O	1:B2:166:LYS:NZ	2.32	0.62
1:D:104:GLU:OE1	1:D:107:ARG:NH2	2.32	0.62
1:D:686:MET:CE	1:V:485:TYR:CE1	2.73	0.62
1:F:49:GLU:HB3	1:F:57:LEU:HD12	1.82	0.62
1:L:466:GLU:OE2	1:N:297:ARG:NH2	2.32	0.62
1:M:44:LYS:NZ	2:M:901:GCP:O2B	2.30	0.62
1:Q:49:GLU:HB3	1:Q:57:LEU:HD12	1.82	0.62
1:R:180:ASP:OD1	1:R:181:LEU:N	2.33	0.62
1:U:49:GLU:HB3	1:U:57:LEU:HD12	1.82	0.62
1:U:104:GLU:OE1	1:U:107:ARG:NH2	2.32	0.62
1:X:180:ASP:OD1	1:X:181:LEU:N	2.33	0.62
1:E2:162:GLN:O	1:E2:166:LYS:NZ	2.32	0.62
1:B:162:GLN:O	1:B:166:LYS:NZ	2.32	0.62
1:M:13:VAL:HG22	1:M:130:LEU:HD11	1.81	0.62
1:W:49:GLU:HB3	1:W:57:LEU:HD12	1.82	0.62
1:Z:717:GLU:HB3	1:Z:721:GLN:HE21	1.63	0.62
1:F2:180:ASP:OD1	1:F2:181:LEU:N	2.33	0.62
1:J2:49:GLU:HB3	1:J2:57:LEU:HD12	1.81	0.62
1:A:180:ASP:OD1	1:A:181:LEU:N	2.33	0.62
1:C:180:ASP:OD1	1:C:181:LEU:N	2.33	0.62
1:F:104:GLU:OE1	1:F:107:ARG:NH2	2.32	0.62
1:F:162:GLN:O	1:F:166:LYS:NZ	2.32	0.62
1:M:49:GLU:HB3	1:M:57:LEU:HD12	1.82	0.62
1:S:162:GLN:O	1:S:166:LYS:NZ	2.32	0.62
1:V:717:GLU:HB3	1:V:721:GLN:HE21	1.63	0.62
1:W:44:LYS:NZ	2:W:901:GCP:O2B	2.30	0.62
1:Y:95:GLU:OE1	1:Y:98:ARG:NH2	2.31	0.62
1:G2:104:GLU:OE1	1:G2:107:ARG:NH2	2.32	0.62
1:D2:49:GLU:HB3	1:D2:57:LEU:HD12	1.81	0.62
1:M:95:GLU:OE1	1:M:98:ARG:NH2	2.31	0.62
1:O:13:VAL:HG22	1:O:130:LEU:HD11	1.82	0.62
1:P:180:ASP:OD1	1:P:181:LEU:N	2.33	0.62
1:Q:95:GLU:OE1	1:Q:98:ARG:NH2	2.31	0.62
1:T:180:ASP:OD1	1:T:181:LEU:N	2.33	0.62
1:T:717:GLU:HB3	1:T:721:GLN:HE21	1.63	0.62
1:Y:49:GLU:HB3	1:Y:57:LEU:HD12	1.81	0.62
1:I2:104:GLU:OE1	1:I2:107:ARG:NH2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J2:13:VAL:HG22	1:J2:130:LEU:HD11	1.82	0.62
1:A2:180:ASP:OD1	1:A2:181:LEU:N	2.33	0.62
1:H:13:VAL:HG22	1:H:130:LEU:HD11	1.82	0.62
1:O:95:GLU:OE1	1:O:98:ARG:NH2	2.31	0.62
1:Q:104:GLU:OE1	1:Q:107:ARG:NH2	2.32	0.62
1:I2:49:GLU:HB3	1:I2:57:LEU:HD12	1.82	0.62
1:D:330:LEU:HB3	1:X:702:LEU:HD21	1.82	0.61
1:I:687:HIS:HB2	1:S:484:ALA:HB2	1.80	0.61
1:J:13:VAL:HG22	1:J:130:LEU:HD11	1.82	0.61
1:V:180:ASP:OD1	1:V:181:LEU:N	2.33	0.61
1:F2:717:GLU:HB3	1:F2:721:GLN:HE21	1.63	0.61
1:H2:95:GLU:OE1	1:H2:98:ARG:NH2	2.31	0.61
1:L:465:ARG:NH1	1:N:291:ASP:OD1	2.27	0.61
1:S:13:VAL:HG22	1:S:130:LEU:HD11	1.82	0.61
1:H2:104:GLU:OE1	1:H2:107:ARG:NH2	2.32	0.61
1:B2:20:PHE:HZ	1:B2:296:LEU:HD21	1.66	0.61
1:F:13:VAL:HG22	1:F:130:LEU:HD11	1.81	0.61
1:G:180:ASP:OD1	1:G:181:LEU:N	2.33	0.61
1:N:180:ASP:OD1	1:N:181:LEU:N	2.33	0.61
1:N:407:MET:HE2	1:P:350:GLN:N	2.14	0.61
1:Q:13:VAL:HG22	1:Q:130:LEU:HD11	1.82	0.61
1:S:95:GLU:OE1	1:S:98:ARG:NH2	2.31	0.61
1:S:361:ARG:HH12	1:U:393:LYS:HG2	1.63	0.61
1:B2:49:GLU:HB3	1:B2:57:LEU:HD12	1.81	0.61
1:E:180:ASP:OD1	1:E:181:LEU:N	2.33	0.61
1:I:180:ASP:OD1	1:I:181:LEU:N	2.33	0.61
1:J:20:PHE:HZ	1:J:296:LEU:HD21	1.66	0.61
1:L:180:ASP:OD1	1:L:181:LEU:N	2.33	0.61
1:Z:180:ASP:OD1	1:Z:181:LEU:N	2.33	0.61
1:E2:13:VAL:HG22	1:E2:130:LEU:HD11	1.82	0.61
1:E2:49:GLU:HB3	1:E2:57:LEU:HD12	1.82	0.61
1:H2:49:GLU:HB3	1:H2:57:LEU:HD12	1.81	0.61
1:H2:450:PRO:HD3	1:H2:718:SER:HB3	1.83	0.61
1:H:20:PHE:HZ	1:H:296:LEU:HD21	1.66	0.61
1:S:450:PRO:HD3	1:S:718:SER:HB3	1.83	0.61
1:W:450:PRO:HD3	1:W:718:SER:HB3	1.83	0.61
1:E2:450:PRO:HD3	1:E2:718:SER:HB3	1.83	0.61
1:D:450:PRO:HD3	1:D:718:SER:HB3	1.83	0.61
1:D:686:MET:CE	1:V:485:TYR:HD1	2.12	0.61
1:U:13:VAL:HG22	1:U:130:LEU:HD11	1.82	0.61
1:C2:180:ASP:OD1	1:C2:181:LEU:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D2:407:MET:HE1	1:B2:349:ASP:CA	2.27	0.61
1:B:13:VAL:HG22	1:B:130:LEU:HD11	1.82	0.61
1:B:20:PHE:HZ	1:B:296:LEU:HD21	1.66	0.61
1:E:686:MET:CE	1:O:485:TYR:CD1	2.80	0.61
1:K:180:ASP:OD1	1:K:181:LEU:N	2.33	0.61
1:M:20:PHE:HZ	1:M:296:LEU:HD21	1.66	0.61
1:O:450:PRO:HD3	1:O:718:SER:HB3	1.83	0.61
1:C2:485:TYR:HE1	1:M:686:MET:HE1	1.63	0.61
1:B2:13:VAL:HG22	1:B2:130:LEU:HD11	1.82	0.61
1:B:49:GLU:HB3	1:B:57:LEU:HD12	1.81	0.61
1:O:20:PHE:HZ	1:O:296:LEU:HD21	1.66	0.61
1:D2:686:MET:HE3	1:F2:485:TYR:CD1	2.35	0.61
1:T:686:MET:HE1	1:G2:485:TYR:CG	2.36	0.61
1:G2:49:GLU:HB3	1:G2:57:LEU:HD12	1.81	0.61
1:I2:95:GLU:OE1	1:I2:98:ARG:NH2	2.31	0.61
1:B2:450:PRO:HD3	1:B2:718:SER:HB3	1.83	0.61
1:D2:13:VAL:HG22	1:D2:130:LEU:HD11	1.82	0.60
1:B2:393:LYS:HG2	1:B:361:ARG:HH12	1.65	0.60
1:D:49:GLU:HB3	1:D:57:LEU:HD12	1.82	0.60
1:F:450:PRO:HD3	1:F:718:SER:HB3	1.83	0.60
1:J:450:PRO:HD3	1:J:718:SER:HB3	1.83	0.60
1:U:95:GLU:OE1	1:U:98:ARG:NH2	2.31	0.60
1:W:95:GLU:OE1	1:W:98:ARG:NH2	2.31	0.60
1:D:13:VAL:HG22	1:D:130:LEU:HD11	1.82	0.60
1:D:687:HIS:NE2	1:V:480:ASP:OD2	2.34	0.60
1:D:702:LEU:HD12	1:X:330:LEU:CD1	2.27	0.60
1:Y:349:ASP:CA	1:E2:407:MET:HE1	2.27	0.60
1:J2:450:PRO:HD3	1:J2:718:SER:HB3	1.83	0.60
1:D2:20:PHE:HZ	1:D2:296:LEU:HD21	1.66	0.60
1:Q:349:ASP:CA	1:S:407:MET:HE1	2.25	0.60
1:D:670:MET:HA	1:D:673:VAL:HG12	1.84	0.60
1:K:485:TYR:CD1	1:U:686:MET:HE3	2.34	0.60
1:Q:450:PRO:HD3	1:Q:718:SER:HB3	1.83	0.60
1:W:13:VAL:HG22	1:W:130:LEU:HD11	1.82	0.60
1:Y:13:VAL:HG22	1:Y:130:LEU:HD11	1.82	0.60
1:I2:13:VAL:HG22	1:I2:130:LEU:HD11	1.82	0.60
1:B2:670:MET:HA	1:B2:673:VAL:HG12	1.84	0.60
1:B:450:PRO:HD3	1:B:718:SER:HB3	1.83	0.60
1:Q:20:PHE:HZ	1:Q:296:LEU:HD21	1.66	0.60
1:I2:20:PHE:HZ	1:I2:296:LEU:HD21	1.66	0.60
1:M:361:ARG:HH12	1:O:393:LYS:HG2	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:686:MET:HE1	1:I2:485:TYR:CG	2.36	0.60
1:G2:450:PRO:HD3	1:G2:718:SER:HB3	1.83	0.60
1:F:670:MET:HA	1:F:673:VAL:HG12	1.84	0.60
1:E2:670:MET:HA	1:E2:673:VAL:HG12	1.84	0.60
1:H2:13:VAL:HG22	1:H2:130:LEU:HD11	1.82	0.60
1:H2:393:LYS:HG2	1:I2:361:ARG:HH12	1.66	0.60
1:H2:670:MET:HA	1:H2:673:VAL:HG12	1.84	0.60
1:D:686:MET:HE1	1:V:485:TYR:HE1	1.59	0.60
1:S:20:PHE:HZ	1:S:296:LEU:HD21	1.66	0.60
1:E2:20:PHE:HZ	1:E2:296:LEU:HD21	1.66	0.60
1:D2:485:TYR:CD1	1:F2:686:MET:CE	2.77	0.60
1:F:20:PHE:HZ	1:F:296:LEU:HD21	1.66	0.60
1:M:450:PRO:HD3	1:M:718:SER:HB3	1.83	0.60
1:Y:450:PRO:HD3	1:Y:718:SER:HB3	1.83	0.60
1:U:450:PRO:HD3	1:U:718:SER:HB3	1.83	0.60
1:W:20:PHE:HZ	1:W:296:LEU:HD21	1.66	0.60
1:G2:13:VAL:HG22	1:G2:130:LEU:HD11	1.81	0.60
1:D:20:PHE:HZ	1:D:296:LEU:HD21	1.66	0.59
1:W:670:MET:HA	1:W:673:VAL:HG12	1.84	0.59
1:H2:20:PHE:HZ	1:H2:296:LEU:HD21	1.66	0.59
1:D2:450:PRO:HD3	1:D2:718:SER:HB3	1.83	0.59
1:Y:20:PHE:HZ	1:Y:296:LEU:HD21	1.66	0.59
1:I2:450:PRO:HD3	1:I2:718:SER:HB3	1.83	0.59
1:J2:20:PHE:HZ	1:J2:296:LEU:HD21	1.66	0.59
1:J2:670:MET:HA	1:J2:673:VAL:HG12	1.84	0.59
1:G:485:TYR:CD1	1:Q:686:MET:HE3	2.36	0.59
1:W:349:ASP:CA	1:Y:407:MET:HE1	2.26	0.59
1:Y:670:MET:HA	1:Y:673:VAL:HG12	1.84	0.59
1:G2:393:LYS:HG2	1:H2:361:ARG:HH12	1.66	0.59
1:U:20:PHE:HZ	1:U:296:LEU:HD21	1.66	0.59
1:J:670:MET:HA	1:J:673:VAL:HG12	1.84	0.59
1:D2:484:ALA:HB2	1:F2:687:HIS:HB2	1.85	0.59
1:B2:451:ARG:HB2	1:B:228:ARG:HH21	1.68	0.59
1:S:670:MET:HA	1:S:673:VAL:HG12	1.84	0.59
1:G2:20:PHE:HZ	1:G2:296:LEU:HD21	1.66	0.59
1:B:686:MET:HE1	1:X:485:TYR:HE1	1.67	0.59
1:O:670:MET:HA	1:O:673:VAL:HG12	1.84	0.59
1:I2:670:MET:HA	1:I2:673:VAL:HG12	1.84	0.59
1:B:78:THR:HG21	1:C:108:VAL:HG22	1.85	0.59
1:D:485:TYR:CD1	1:V:686:MET:CE	2.79	0.59
1:G2:670:MET:HA	1:G2:673:VAL:HG12	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:450:PRO:HD3	1:H:718:SER:HB3	1.83	0.59
1:U:670:MET:HA	1:U:673:VAL:HG12	1.84	0.59
1:C2:485:TYR:CE1	1:M:686:MET:CE	2.80	0.59
1:C2:485:TYR:CD1	1:M:686:MET:HE3	2.38	0.59
1:A2:485:TYR:CD1	1:J2:686:MET:HE3	2.36	0.59
1:D2:670:MET:HA	1:D2:673:VAL:HG12	1.84	0.58
1:K:687:HIS:HB2	1:U:484:ALA:HB2	1.84	0.58
1:T:485:TYR:CE1	1:G2:686:MET:CE	2.81	0.58
1:B2:78:THR:HG21	1:A:108:VAL:HG22	1.86	0.58
1:T:108:VAL:HG22	1:W:78:THR:HG21	1.85	0.58
1:B:670:MET:HA	1:B:673:VAL:HG12	1.84	0.58
1:D:321:ASP:OD2	1:D:324:ARG:NE	2.33	0.58
1:M:393:LYS:HG2	1:J2:361:ARG:HH12	1.67	0.58
1:O:307:ILE:HG22	1:O:311:VAL:HG23	1.86	0.58
1:Q:307:ILE:HG22	1:Q:311:VAL:HG23	1.86	0.58
1:T:485:TYR:CD1	1:G2:686:MET:HE3	2.38	0.58
1:B:396:HIS:CB	1:D:361:ARG:HH21	2.17	0.58
1:M:307:ILE:HG22	1:M:311:VAL:HG23	1.86	0.58
1:A2:687:HIS:HB2	1:J2:484:ALA:HB2	1.85	0.58
1:D:484:ALA:HB2	1:V:687:HIS:HB2	1.85	0.58
1:H2:307:ILE:HG22	1:H2:311:VAL:HG23	1.86	0.58
1:I2:307:ILE:HG22	1:I2:311:VAL:HG23	1.86	0.58
1:H:670:MET:HA	1:H:673:VAL:HG12	1.84	0.58
1:S:307:ILE:HG22	1:S:311:VAL:HG23	1.86	0.58
1:G2:307:ILE:HG22	1:G2:311:VAL:HG23	1.86	0.58
1:C2:108:VAL:HG22	1:F:78:THR:HG21	1.86	0.58
1:I:485:TYR:CD1	1:S:686:MET:HE3	2.37	0.58
1:V:702:LEU:HD21	1:G2:330:LEU:HB3	1.86	0.58
1:Y:321:ASP:OD2	1:Y:324:ARG:NE	2.33	0.58
1:J2:307:ILE:HG22	1:J2:311:VAL:HG23	1.86	0.58
1:P:485:TYR:CE1	1:I2:686:MET:CE	2.83	0.58
1:H2:451:ARG:HB2	1:I2:228:ARG:HH21	1.69	0.58
1:C2:6:MET:O	1:C2:10:ILE:HG23	2.05	0.57
1:D:307:ILE:HG22	1:D:311:VAL:HG23	1.86	0.57
1:Q:670:MET:HA	1:Q:673:VAL:HG12	1.84	0.57
1:E2:307:ILE:HG22	1:E2:311:VAL:HG23	1.86	0.57
1:A2:6:MET:O	1:A2:10:ILE:HG23	2.04	0.57
1:B2:686:MET:HE1	1:Z:485:TYR:HE1	1.66	0.57
1:E:6:MET:O	1:E:10:ILE:HG23	2.05	0.57
1:R:686:MET:HE1	1:H2:485:TYR:CG	2.35	0.57
1:T:485:TYR:HE1	1:G2:686:MET:HE1	1.64	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:6:MET:O	1:C:10:ILE:HG23	2.05	0.57
1:F:15:ARG:HH11	1:F:741:ILE:HD11	1.70	0.57
1:G:6:MET:O	1:G:10:ILE:HG23	2.05	0.57
1:H:15:ARG:HH11	1:H:741:ILE:HD11	1.70	0.57
1:U:307:ILE:HG22	1:U:311:VAL:HG23	1.86	0.57
1:X:6:MET:O	1:X:10:ILE:HG23	2.05	0.57
1:B:307:ILE:HG22	1:B:311:VAL:HG23	1.86	0.57
1:I:6:MET:O	1:I:10:ILE:HG23	2.05	0.57
1:M:670:MET:HA	1:M:673:VAL:HG12	1.84	0.57
1:P:6:MET:O	1:P:10:ILE:HG23	2.05	0.57
1:R:6:MET:O	1:R:10:ILE:HG23	2.05	0.57
1:V:108:VAL:HG22	1:Y:78:THR:HG21	1.85	0.57
1:C2:38:GLY:HA2	1:C2:186:ALA:HB2	1.87	0.57
1:A2:366:PHE:CE2	1:A2:430:MET:HG2	2.40	0.57
1:B2:397:GLY:CA	1:B:360:ALA:HB1	2.35	0.57
1:A:6:MET:O	1:A:10:ILE:HG23	2.05	0.57
1:K:6:MET:O	1:K:10:ILE:HG23	2.05	0.57
1:L:108:VAL:HG22	1:O:78:THR:HG21	1.86	0.57
1:Q:321:ASP:OD2	1:Q:324:ARG:NE	2.33	0.57
1:Q:490:HIS:HD1	1:Q:672:ILE:HD13	1.69	0.57
1:V:330:LEU:CD1	1:G2:702:LEU:HD12	2.28	0.57
1:Y:307:ILE:HG22	1:Y:311:VAL:HG23	1.86	0.57
1:Z:6:MET:O	1:Z:10:ILE:HG23	2.05	0.57
1:G2:321:ASP:OD2	1:G2:324:ARG:NE	2.33	0.57
1:I2:31:LEU:HD23	1:I2:285:LEU:HD22	1.87	0.57
1:A2:38:GLY:HA2	1:A2:186:ALA:HB2	1.87	0.57
1:C:40:GLN:NE2	1:D:180:ASP:OD2	2.37	0.57
1:E:38:GLY:HA2	1:E:186:ALA:HB2	1.87	0.57
1:E:366:PHE:CE2	1:E:430:MET:HG2	2.40	0.57
1:G:366:PHE:CE2	1:G:430:MET:HG2	2.40	0.57
1:J:307:ILE:HG22	1:J:311:VAL:HG23	1.86	0.57
1:L:6:MET:O	1:L:10:ILE:HG23	2.05	0.57
1:M:15:ARG:HH11	1:M:741:ILE:HD11	1.70	0.57
1:Q:15:ARG:HH11	1:Q:741:ILE:HD11	1.70	0.57
1:U:31:LEU:HD23	1:U:285:LEU:HD22	1.87	0.57
1:W:15:ARG:HH11	1:W:741:ILE:HD11	1.70	0.57
1:F2:366:PHE:CE2	1:F2:430:MET:HG2	2.40	0.57
1:H2:31:LEU:HD23	1:H2:285:LEU:HD22	1.87	0.57
1:D2:307:ILE:HG22	1:D2:311:VAL:HG23	1.86	0.57
1:B2:307:ILE:HG22	1:B2:311:VAL:HG23	1.86	0.57
1:G:142:LYS:NZ	1:H:185:ASP:OD1	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:15:ARG:HH11	1:J:741:ILE:HD11	1.70	0.57
1:T:702:LEU:HD21	1:H2:330:LEU:HB3	1.87	0.57
1:U:490:HIS:HD1	1:U:672:ILE:HD13	1.69	0.57
1:W:31:LEU:HD23	1:W:285:LEU:HD22	1.87	0.57
1:Y:15:ARG:HH11	1:Y:741:ILE:HD11	1.70	0.57
1:Y:31:LEU:HD23	1:Y:285:LEU:HD22	1.87	0.57
1:D2:15:ARG:HH11	1:D2:741:ILE:HD11	1.70	0.57
1:F:307:ILE:HG22	1:F:311:VAL:HG23	1.86	0.57
1:U:15:ARG:HH11	1:U:741:ILE:HD11	1.70	0.57
1:F2:6:MET:O	1:F2:10:ILE:HG23	2.05	0.57
1:I2:15:ARG:HH11	1:I2:741:ILE:HD11	1.70	0.57
1:B2:391:ALA:O	1:B2:395:ILE:HG12	2.05	0.57
1:A:38:GLY:HA2	1:A:186:ALA:HB2	1.87	0.57
1:G:38:GLY:HA2	1:G:186:ALA:HB2	1.87	0.57
1:I:485:TYR:CE1	1:S:686:MET:CE	2.79	0.57
1:M:391:ALA:O	1:M:395:ILE:HG12	2.05	0.57
1:P:108:VAL:HG22	1:S:78:THR:HG21	1.86	0.57
1:R:108:VAL:HG22	1:U:78:THR:HG21	1.86	0.57
1:S:15:ARG:HH11	1:S:741:ILE:HD11	1.70	0.57
1:S:31:LEU:HD23	1:S:285:LEU:HD22	1.87	0.57
1:S:490:HIS:HD1	1:S:672:ILE:HD13	1.69	0.57
1:W:321:ASP:OD2	1:W:324:ARG:NE	2.33	0.57
1:E2:31:LEU:HD23	1:E2:285:LEU:HD22	1.87	0.57
1:A:366:PHE:CE2	1:A:430:MET:HG2	2.40	0.57
1:B:393:LYS:HG2	1:D:361:ARG:HH12	1.69	0.57
1:C:366:PHE:CE2	1:C:430:MET:HG2	2.40	0.57
1:G:108:VAL:HG22	1:J:78:THR:HG21	1.87	0.57
1:H:307:ILE:HG22	1:H:311:VAL:HG23	1.86	0.57
1:N:6:MET:O	1:N:10:ILE:HG23	2.05	0.57
1:U:391:ALA:O	1:U:395:ILE:HG12	2.05	0.57
1:E2:15:ARG:HH11	1:E2:741:ILE:HD11	1.70	0.57
1:I2:391:ALA:O	1:I2:395:ILE:HG12	2.05	0.57
1:J2:391:ALA:O	1:J2:395:ILE:HG12	2.05	0.57
1:J2:686:MET:HG2	1:J2:690:ILE:HG13	1.87	0.57
1:C2:366:PHE:CE2	1:C2:430:MET:HG2	2.40	0.56
1:D2:391:ALA:O	1:D2:395:ILE:HG12	2.05	0.56
1:N:366:PHE:CE2	1:N:430:MET:HG2	2.40	0.56
1:V:6:MET:O	1:V:10:ILE:HG23	2.05	0.56
1:W:391:ALA:O	1:W:395:ILE:HG12	2.05	0.56
1:G2:31:LEU:HD23	1:G2:285:LEU:HD22	1.87	0.56
1:H2:391:ALA:O	1:H2:395:ILE:HG12	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:391:ALA:O	1:B:395:ILE:HG12	2.05	0.56
1:I:366:PHE:CE2	1:I:430:MET:HG2	2.40	0.56
1:M:686:MET:HG2	1:M:690:ILE:HG13	1.88	0.56
1:O:490:HIS:HD1	1:O:672:ILE:HD13	1.69	0.56
1:O:686:MET:HG2	1:O:690:ILE:HG13	1.87	0.56
1:Q:31:LEU:HD23	1:Q:285:LEU:HD22	1.87	0.56
1:W:307:ILE:HG22	1:W:311:VAL:HG23	1.86	0.56
1:J2:15:ARG:HH11	1:J2:741:ILE:HD11	1.70	0.56
1:D2:78:THR:HG21	1:A2:108:VAL:HG22	1.88	0.56
1:C:38:GLY:HA2	1:C:186:ALA:HB2	1.87	0.56
1:F:391:ALA:O	1:F:395:ILE:HG12	2.05	0.56
1:H:360:ALA:HB1	1:J:397:GLY:CA	2.35	0.56
1:H:686:MET:HG2	1:H:690:ILE:HG13	1.87	0.56
1:I:38:GLY:HA2	1:I:186:ALA:HB2	1.87	0.56
1:J:686:MET:HG2	1:J:690:ILE:HG13	1.87	0.56
1:L:366:PHE:CE2	1:L:430:MET:HG2	2.40	0.56
1:O:31:LEU:HD23	1:O:285:LEU:HD22	1.87	0.56
1:Q:686:MET:HG2	1:Q:690:ILE:HG13	1.88	0.56
1:R:485:TYR:CD1	1:H2:686:MET:HE3	2.40	0.56
1:S:686:MET:HG2	1:S:690:ILE:HG13	1.87	0.56
1:T:6:MET:O	1:T:10:ILE:HG23	2.04	0.56
1:V:366:PHE:CE2	1:V:430:MET:HG2	2.40	0.56
1:B2:15:ARG:HH11	1:B2:741:ILE:HD11	1.70	0.56
1:D:31:LEU:HD23	1:D:285:LEU:HD22	1.87	0.56
1:F:686:MET:HG2	1:F:690:ILE:HG13	1.88	0.56
1:O:391:ALA:O	1:O:395:ILE:HG12	2.05	0.56
1:Z:344:ILE:HA	1:Z:360:ALA:HB2	1.88	0.56
1:Z:366:PHE:CE2	1:Z:430:MET:HG2	2.40	0.56
1:D2:686:MET:HG2	1:D2:690:ILE:HG13	1.87	0.56
1:A:344:ILE:HA	1:A:360:ALA:HB2	1.88	0.56
1:E:702:LEU:HD21	1:M:330:LEU:HB3	1.87	0.56
1:I:330:LEU:CD1	1:Q:702:LEU:HD12	2.31	0.56
1:J:31:LEU:HD23	1:J:285:LEU:HD22	1.87	0.56
1:L:38:GLY:HA2	1:L:186:ALA:HB2	1.87	0.56
1:N:108:VAL:HG22	1:Q:78:THR:HG21	1.86	0.56
1:R:344:ILE:HA	1:R:360:ALA:HB2	1.88	0.56
1:T:344:ILE:HA	1:T:360:ALA:HB2	1.88	0.56
1:T:366:PHE:CE2	1:T:430:MET:HG2	2.40	0.56
1:X:344:ILE:HA	1:X:360:ALA:HB2	1.88	0.56
1:F2:38:GLY:HA2	1:F2:186:ALA:HB2	1.87	0.56
1:G2:397:GLY:CA	1:H2:360:ALA:HB1	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H2:15:ARG:HH11	1:H2:741:ILE:HD11	1.70	0.56
1:C:344:ILE:HA	1:C:360:ALA:HB2	1.88	0.56
1:H:391:ALA:O	1:H:395:ILE:HG12	2.05	0.56
1:M:31:LEU:HD23	1:M:285:LEU:HD22	1.87	0.56
1:N:411:THR:HG23	1:P:350:GLN:CD	2.30	0.56
1:P:366:PHE:CE2	1:P:430:MET:HG2	2.40	0.56
1:X:366:PHE:CE2	1:X:430:MET:HG2	2.40	0.56
1:K:38:GLY:HA2	1:K:186:ALA:HB2	1.87	0.56
1:K:366:PHE:CE2	1:K:430:MET:HG2	2.40	0.56
1:M:228:ARG:HH21	1:O:451:ARG:HB2	1.70	0.56
1:U:686:MET:HG2	1:U:690:ILE:HG13	1.87	0.56
1:X:38:GLY:HA2	1:X:186:ALA:HB2	1.87	0.56
1:E2:391:ALA:O	1:E2:395:ILE:HG12	2.05	0.56
1:B:396:HIS:HB2	1:D:361:ARG:NH2	2.21	0.56
1:D:391:ALA:O	1:D:395:ILE:HG12	2.05	0.56
1:P:38:GLY:HA2	1:P:186:ALA:HB2	1.87	0.56
1:S:391:ALA:O	1:S:395:ILE:HG12	2.05	0.56
1:V:38:GLY:HA2	1:V:186:ALA:HB2	1.87	0.56
1:F2:344:ILE:HA	1:F2:360:ALA:HB2	1.88	0.56
1:G2:15:ARG:HH11	1:G2:741:ILE:HD11	1.70	0.56
1:G2:391:ALA:O	1:G2:395:ILE:HG12	2.05	0.56
1:H2:321:ASP:OD2	1:H2:324:ARG:NE	2.33	0.56
1:B2:686:MET:HG2	1:B2:690:ILE:HG13	1.87	0.56
1:E:108:VAL:HG22	1:H:78:THR:HG21	1.88	0.56
1:P:485:TYR:CD1	1:I2:686:MET:HE3	2.41	0.56
1:Q:391:ALA:O	1:Q:395:ILE:HG12	2.05	0.56
1:Q:436:ILE:HG13	1:Q:461:THR:HG22	1.88	0.56
1:R:38:GLY:HA2	1:R:186:ALA:HB2	1.87	0.56
1:S:436:ILE:HG13	1:S:461:THR:HG22	1.88	0.56
1:U:321:ASP:OD2	1:U:324:ARG:NE	2.33	0.56
1:X:108:VAL:HG22	1:E2:78:THR:HG21	1.87	0.56
1:X:142:LYS:NZ	1:Y:185:ASP:OD1	2.30	0.56
1:Y:391:ALA:O	1:Y:395:ILE:HG12	2.05	0.56
1:D:686:MET:HE3	1:V:485:TYR:HD1	1.67	0.56
1:H:31:LEU:HD23	1:H:285:LEU:HD22	1.87	0.56
1:N:38:GLY:HA2	1:N:186:ALA:HB2	1.87	0.56
1:R:366:PHE:CE2	1:R:430:MET:HG2	2.40	0.56
1:V:344:ILE:HA	1:V:360:ALA:HB2	1.88	0.56
1:Z:38:GLY:HA2	1:Z:186:ALA:HB2	1.87	0.56
1:C2:344:ILE:HA	1:C2:360:ALA:HB2	1.88	0.55
1:A2:344:ILE:HA	1:A2:360:ALA:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:15:ARG:HH11	1:B:741:ILE:HD11	1.70	0.55
1:B:31:LEU:HD23	1:B:285:LEU:HD22	1.87	0.55
1:B:485:TYR:CD1	1:X:686:MET:CE	2.83	0.55
1:G:686:MET:HE1	1:Q:485:TYR:CG	2.40	0.55
1:I:23:ILE:HG13	1:I:25:GLN:H	1.71	0.55
1:J:321:ASP:OD2	1:J:324:ARG:NE	2.33	0.55
1:J:391:ALA:O	1:J:395:ILE:HG12	2.05	0.55
1:N:344:ILE:HA	1:N:360:ALA:HB2	1.88	0.55
1:O:436:ILE:HG13	1:O:461:THR:HG22	1.88	0.55
1:P:23:ILE:HG13	1:P:25:GLN:H	1.71	0.55
1:J2:31:LEU:HD23	1:J2:285:LEU:HD22	1.87	0.55
1:J:137:LEU:HD21	1:J:163:PHE:HD2	1.72	0.55
1:K:344:ILE:HA	1:K:360:ALA:HB2	1.88	0.55
1:K:444:LYS:HA	1:K:453:ARG:HH11	1.72	0.55
1:O:15:ARG:HH11	1:O:741:ILE:HD11	1.70	0.55
1:O:137:LEU:HD21	1:O:163:PHE:HD2	1.72	0.55
1:O:321:ASP:OD2	1:O:324:ARG:NE	2.33	0.55
1:F2:23:ILE:HG13	1:F2:25:GLN:H	1.71	0.55
1:D2:31:LEU:HD23	1:D2:285:LEU:HD22	1.87	0.55
1:B2:31:LEU:HD23	1:B2:285:LEU:HD22	1.87	0.55
1:A:23:ILE:HG13	1:A:25:GLN:H	1.71	0.55
1:B:400:THR:HA	1:D:364:ARG:NH2	2.07	0.55
1:B:686:MET:HG2	1:B:690:ILE:HG13	1.87	0.55
1:E:344:ILE:HA	1:E:360:ALA:HB2	1.88	0.55
1:F:31:LEU:HD23	1:F:285:LEU:HD22	1.87	0.55
1:G:362:ILE:O	1:G:365:ILE:HG22	2.07	0.55
1:J:436:ILE:HG13	1:J:461:THR:HG22	1.88	0.55
1:L:444:LYS:HA	1:L:453:ARG:HH11	1.72	0.55
1:T:330:LEU:CD1	1:H2:702:LEU:HD12	2.29	0.55
1:U:436:ILE:HG13	1:U:461:THR:HG22	1.88	0.55
1:C2:362:ILE:O	1:C2:365:ILE:HG22	2.07	0.55
1:A2:444:LYS:HA	1:A2:453:ARG:HH11	1.72	0.55
1:B:137:LEU:HD21	1:B:163:PHE:HD2	1.72	0.55
1:B:396:HIS:HB2	1:D:361:ARG:HH21	1.70	0.55
1:E:687:HIS:HB2	1:O:484:ALA:HB2	1.87	0.55
1:F:137:LEU:HD21	1:F:163:PHE:HD2	1.72	0.55
1:G:702:LEU:HD21	1:O:330:LEU:HB3	1.88	0.55
1:L:23:ILE:HG13	1:L:25:GLN:H	1.71	0.55
1:L:362:ILE:O	1:L:365:ILE:HG22	2.07	0.55
1:M:436:ILE:HG13	1:M:461:THR:HG22	1.88	0.55
1:P:344:ILE:HA	1:P:360:ALA:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:444:LYS:HA	1:P:453:ARG:HH11	1.72	0.55
1:R:362:ILE:O	1:R:365:ILE:HG22	2.07	0.55
1:T:327:LYS:O	1:T:331:GLN:HG2	2.06	0.55
1:U:137:LEU:HD21	1:U:163:PHE:HD2	1.72	0.55
1:W:686:MET:HG2	1:W:690:ILE:HG13	1.88	0.55
1:Z:362:ILE:O	1:Z:365:ILE:HG22	2.07	0.55
1:E2:137:LEU:HD21	1:E2:163:PHE:HD2	1.72	0.55
1:F2:362:ILE:O	1:F2:365:ILE:HG22	2.07	0.55
1:B2:41:SER:H	2:B2:901:GCP:H3B1	1.72	0.55
1:B2:686:MET:CE	1:Z:485:TYR:CE1	2.84	0.55
1:E:444:LYS:HA	1:E:453:ARG:HH11	1.72	0.55
1:I:344:ILE:HA	1:I:360:ALA:HB2	1.88	0.55
1:L:402:LEU:HD23	1:L:402:LEU:H	1.72	0.55
1:M:451:ARG:HB2	1:J2:228:ARG:HH21	1.72	0.55
1:R:327:LYS:O	1:R:331:GLN:HG2	2.06	0.55
1:V:327:LYS:O	1:V:331:GLN:HG2	2.06	0.55
1:H2:137:LEU:HD21	1:H2:163:PHE:HD2	1.72	0.55
1:H2:686:MET:HG2	1:H2:690:ILE:HG13	1.87	0.55
1:I2:686:MET:HG2	1:I2:690:ILE:HG13	1.87	0.55
1:J2:137:LEU:HD21	1:J2:163:PHE:HD2	1.72	0.55
1:C2:686:MET:HE1	1:M:485:TYR:CG	2.40	0.55
1:B2:436:ILE:HG13	1:B2:461:THR:HG22	1.88	0.55
1:C:23:ILE:HG13	1:C:25:GLN:H	1.71	0.55
1:D:686:MET:HG2	1:D:690:ILE:HG13	1.87	0.55
1:G:344:ILE:HA	1:G:360:ALA:HB2	1.88	0.55
1:K:362:ILE:O	1:K:365:ILE:HG22	2.07	0.55
1:L:344:ILE:HA	1:L:360:ALA:HB2	1.88	0.55
1:M:41:SER:H	2:M:901:GCP:H3B1	1.72	0.55
1:N:444:LYS:HA	1:N:453:ARG:HH11	1.72	0.55
1:T:23:ILE:HG13	1:T:25:GLN:H	1.71	0.55
1:T:38:GLY:HA2	1:T:186:ALA:HB2	1.87	0.55
1:X:327:LYS:O	1:X:331:GLN:HG2	2.06	0.55
1:Z:327:LYS:O	1:Z:331:GLN:HG2	2.07	0.55
1:E2:321:ASP:OD2	1:E2:324:ARG:NE	2.33	0.55
1:D2:436:ILE:HG13	1:D2:461:THR:HG22	1.88	0.55
1:E:23:ILE:HG13	1:E:25:GLN:H	1.71	0.55
1:E:485:TYR:HD1	1:O:686:MET:HE3	1.71	0.55
1:G:402:LEU:HD23	1:G:402:LEU:H	1.72	0.55
1:G:444:LYS:HA	1:G:453:ARG:HH11	1.72	0.55
1:P:327:LYS:O	1:P:331:GLN:HG2	2.06	0.55
1:R:444:LYS:HA	1:R:453:ARG:HH11	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:362:ILE:O	1:T:365:ILE:HG22	2.07	0.55
1:T:402:LEU:HD23	1:T:402:LEU:H	1.72	0.55
1:V:388:ILE:O	1:V:392:ILE:HG12	2.07	0.55
1:V:444:LYS:HA	1:V:453:ARG:HH11	1.72	0.55
1:Y:686:MET:HG2	1:Y:690:ILE:HG13	1.87	0.55
1:E2:436:ILE:HG13	1:E2:461:THR:HG22	1.88	0.55
1:A:362:ILE:O	1:A:365:ILE:HG22	2.07	0.55
1:B:436:ILE:HG13	1:B:461:THR:HG22	1.88	0.55
1:F:41:SER:H	2:F:901:GCP:H3B1	1.72	0.55
1:G:327:LYS:O	1:G:331:GLN:HG2	2.06	0.55
1:H:41:SER:H	2:H:901:GCP:H3B1	1.72	0.55
1:H:436:ILE:HG13	1:H:461:THR:HG22	1.88	0.55
1:P:362:ILE:O	1:P:365:ILE:HG22	2.07	0.55
1:R:388:ILE:O	1:R:392:ILE:HG12	2.07	0.55
1:S:137:LEU:HD21	1:S:163:PHE:HD2	1.72	0.55
1:V:402:LEU:HD23	1:V:402:LEU:H	1.72	0.55
1:Z:23:ILE:HG13	1:Z:25:GLN:H	1.71	0.55
1:F2:444:LYS:HA	1:F2:453:ARG:HH11	1.72	0.55
1:G2:41:SER:H	2:G2:901:GCP:H3B1	1.72	0.55
1:G2:686:MET:HG2	1:G2:690:ILE:HG13	1.87	0.55
1:C:327:LYS:O	1:C:331:GLN:HG2	2.07	0.55
1:D:137:LEU:HD21	1:D:163:PHE:HD2	1.72	0.55
1:E:330:LEU:CD1	1:M:702:LEU:HD12	2.30	0.55
1:E:388:ILE:O	1:E:392:ILE:HG12	2.07	0.55
1:F:436:ILE:HG13	1:F:461:THR:HG22	1.88	0.55
1:I:402:LEU:HD23	1:I:402:LEU:H	1.72	0.55
1:N:388:ILE:O	1:N:392:ILE:HG12	2.07	0.55
1:R:485:TYR:HE1	1:H2:686:MET:HE1	1.66	0.55
1:S:321:ASP:OD2	1:S:324:ARG:NE	2.33	0.55
1:W:436:ILE:HG13	1:W:461:THR:HG22	1.88	0.55
1:Y:167:GLU:HG3	1:Y:168:ASN:H	1.72	0.55
1:F2:327:LYS:O	1:F2:331:GLN:HG2	2.06	0.55
1:I2:137:LEU:HD21	1:I2:163:PHE:HD2	1.72	0.55
1:J2:41:SER:H	2:J2:901:GCP:H3B1	1.72	0.55
1:J2:436:ILE:HG13	1:J2:461:THR:HG22	1.88	0.55
1:D:15:ARG:HH11	1:D:741:ILE:HD11	1.70	0.55
1:E:113:LYS:O	1:E:148:GLN:NE2	2.36	0.55
1:H:303:GLN:HG2	1:H:735:LEU:HD11	1.89	0.55
1:H:321:ASP:OD2	1:H:324:ARG:NE	2.33	0.55
1:I:327:LYS:O	1:I:331:GLN:HG2	2.06	0.55
1:I:388:ILE:O	1:I:392:ILE:HG12	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:402:LEU:HD23	1:N:402:LEU:H	1.72	0.55
1:U:167:GLU:HG3	1:U:168:ASN:H	1.72	0.55
1:E2:686:MET:HG2	1:E2:690:ILE:HG13	1.87	0.55
1:I2:167:GLU:HG3	1:I2:168:ASN:H	1.72	0.55
1:C2:6:MET:SD	1:C2:129:VAL:HA	2.48	0.54
1:D2:167:GLU:HG3	1:D2:168:ASN:H	1.72	0.54
1:A:388:ILE:O	1:A:392:ILE:HG12	2.07	0.54
1:B:167:GLU:HG3	1:B:168:ASN:H	1.72	0.54
1:D:41:SER:H	2:D:901:GCP:H3B1	1.72	0.54
1:H:228:ARG:HH21	1:J:451:ARG:HB2	1.72	0.54
1:J:303:GLN:HG2	1:J:735:LEU:HD11	1.90	0.54
1:L:327:LYS:O	1:L:331:GLN:HG2	2.06	0.54
1:N:327:LYS:O	1:N:331:GLN:HG2	2.07	0.54
1:P:113:LYS:O	1:P:148:GLN:NE2	2.37	0.54
1:X:362:ILE:O	1:X:365:ILE:HG22	2.07	0.54
1:Y:436:ILE:HG13	1:Y:461:THR:HG22	1.88	0.54
1:G2:167:GLU:HG3	1:G2:168:ASN:H	1.72	0.54
1:I2:41:SER:H	2:I2:901:GCP:H3B1	1.72	0.54
1:C2:388:ILE:O	1:C2:392:ILE:HG12	2.07	0.54
1:D2:137:LEU:HD21	1:D2:163:PHE:HD2	1.72	0.54
1:A:444:LYS:HA	1:A:453:ARG:HH11	1.72	0.54
1:D:397:GLY:CA	1:G2:360:ALA:HB1	2.38	0.54
1:E:402:LEU:H	1:E:402:LEU:HD23	1.72	0.54
1:F:303:GLN:HG2	1:F:735:LEU:HD11	1.90	0.54
1:G:330:LEU:CD1	1:O:702:LEU:HD12	2.31	0.54
1:K:485:TYR:HD1	1:U:686:MET:HE3	1.72	0.54
1:S:41:SER:H	2:S:901:GCP:H3B1	1.72	0.54
1:T:485:TYR:HD1	1:G2:686:MET:CE	2.19	0.54
1:Y:41:SER:H	2:Y:901:GCP:H3B1	1.72	0.54
1:Y:137:LEU:HD21	1:Y:163:PHE:HD2	1.72	0.54
1:E2:222:ASN:ND2	1:E2:227:LEU:O	2.32	0.54
1:C2:444:LYS:HA	1:C2:453:ARG:HH11	1.72	0.54
1:A2:6:MET:SD	1:A2:129:VAL:HA	2.48	0.54
1:A2:362:ILE:O	1:A2:365:ILE:HG22	2.07	0.54
1:B2:137:LEU:HD21	1:B2:163:PHE:HD2	1.72	0.54
1:A:327:LYS:O	1:A:331:GLN:HG2	2.06	0.54
1:D:436:ILE:HG13	1:D:461:THR:HG22	1.88	0.54
1:E:6:MET:SD	1:E:129:VAL:HA	2.48	0.54
1:E:327:LYS:O	1:E:331:GLN:HG2	2.06	0.54
1:L:723:GLN:OE1	1:N:223:LYS:NZ	2.41	0.54
1:M:137:LEU:HD21	1:M:163:PHE:HD2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:167:GLU:HG3	1:M:168:ASN:H	1.72	0.54
1:N:23:ILE:HG13	1:N:25:GLN:H	1.71	0.54
1:N:362:ILE:O	1:N:365:ILE:HG22	2.07	0.54
1:P:6:MET:SD	1:P:129:VAL:HA	2.47	0.54
1:R:702:LEU:HD21	1:I2:330:LEU:HB3	1.89	0.54
1:U:303:GLN:HG2	1:U:735:LEU:HD11	1.89	0.54
1:F2:388:ILE:O	1:F2:392:ILE:HG12	2.07	0.54
1:I2:321:ASP:OD2	1:I2:324:ARG:NE	2.33	0.54
1:I2:436:ILE:HG13	1:I2:461:THR:HG22	1.88	0.54
1:D2:303:GLN:HG2	1:D2:735:LEU:HD11	1.90	0.54
1:A2:23:ILE:HG13	1:A2:25:GLN:H	1.71	0.54
1:A2:388:ILE:O	1:A2:392:ILE:HG12	2.07	0.54
1:E:407:MET:HE2	1:G:350:GLN:N	2.17	0.54
1:H:167:GLU:HG3	1:H:168:ASN:H	1.72	0.54
1:I:444:LYS:HA	1:I:453:ARG:HH11	1.72	0.54
1:J:41:SER:H	2:J:901:GCP:H3B1	1.72	0.54
1:K:327:LYS:O	1:K:331:GLN:HG2	2.07	0.54
1:M:303:GLN:HG2	1:M:735:LEU:HD11	1.89	0.54
1:O:290:ARG:HA	1:O:293:LEU:HG	1.90	0.54
1:Q:167:GLU:HG3	1:Q:168:ASN:H	1.72	0.54
1:S:290:ARG:HA	1:S:293:LEU:HG	1.90	0.54
1:W:303:GLN:HG2	1:W:735:LEU:HD11	1.90	0.54
1:X:6:MET:SD	1:X:129:VAL:HA	2.48	0.54
1:Y:303:GLN:HG2	1:Y:735:LEU:HD11	1.89	0.54
1:Z:388:ILE:O	1:Z:392:ILE:HG12	2.07	0.54
1:I2:303:GLN:HG2	1:I2:735:LEU:HD11	1.90	0.54
1:J2:303:GLN:HG2	1:J2:735:LEU:HD11	1.90	0.54
1:C2:178:ASN:HB3	1:D2:178:ASN:HD22	1.73	0.54
1:A2:327:LYS:O	1:A2:331:GLN:HG2	2.06	0.54
1:A:290:ARG:NH1	1:C:458:ARG:HD3	2.22	0.54
1:B:41:SER:H	2:B:901:GCP:H3B1	1.72	0.54
1:D:290:ARG:HA	1:D:293:LEU:HG	1.90	0.54
1:G:6:MET:SD	1:G:129:VAL:HA	2.48	0.54
1:J:167:GLU:HG3	1:J:168:ASN:H	1.72	0.54
1:L:6:MET:SD	1:L:129:VAL:HA	2.47	0.54
1:N:6:MET:SD	1:N:129:VAL:HA	2.48	0.54
1:Q:290:ARG:HA	1:Q:293:LEU:HG	1.90	0.54
1:S:303:GLN:HG2	1:S:735:LEU:HD11	1.90	0.54
1:W:41:SER:H	2:W:901:GCP:H3B1	1.72	0.54
1:X:444:LYS:HA	1:X:453:ARG:HH11	1.72	0.54
1:G2:290:ARG:HA	1:G2:293:LEU:HG	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H2:290:ARG:HA	1:H2:293:LEU:HG	1.90	0.54
1:H2:303:GLN:HG2	1:H2:735:LEU:HD11	1.90	0.54
1:D2:321:ASP:OD2	1:D2:324:ARG:NE	2.33	0.54
1:D:85:HIS:NE2	1:D:100:GLU:OE2	2.41	0.54
1:E:362:ILE:O	1:E:365:ILE:HG22	2.07	0.54
1:L:178:ASN:HB3	1:M:178:ASN:HD22	1.73	0.54
1:M:290:ARG:HA	1:M:293:LEU:HG	1.90	0.54
1:N:458:ARG:HD3	1:P:290:ARG:NH1	2.19	0.54
1:O:361:ARG:NH1	1:Q:393:LYS:HG2	2.22	0.54
1:Q:41:SER:H	2:Q:901:GCP:H3B1	1.72	0.54
1:R:6:MET:SD	1:R:129:VAL:HA	2.48	0.54
1:U:290:ARG:HA	1:U:293:LEU:HG	1.90	0.54
1:W:137:LEU:HD21	1:W:163:PHE:HD2	1.72	0.54
1:Y:290:ARG:HA	1:Y:293:LEU:HG	1.90	0.54
1:Z:6:MET:SD	1:Z:129:VAL:HA	2.48	0.54
1:E2:303:GLN:HG2	1:E2:735:LEU:HD11	1.90	0.54
1:G2:85:HIS:NE2	1:G2:100:GLU:OE2	2.41	0.54
1:G2:137:LEU:HD21	1:G2:163:PHE:HD2	1.72	0.54
1:C2:327:LYS:O	1:C2:331:GLN:HG2	2.06	0.54
1:B2:290:ARG:HA	1:B2:293:LEU:HG	1.90	0.54
1:B2:303:GLN:HG2	1:B2:735:LEU:HD11	1.90	0.54
1:B:290:ARG:HA	1:B:293:LEU:HG	1.90	0.54
1:F:18:ASP:OD1	1:F:75:ASN:ND2	2.38	0.54
1:G:388:ILE:O	1:G:392:ILE:HG12	2.07	0.54
1:I:362:ILE:O	1:I:365:ILE:HG22	2.07	0.54
1:J:290:ARG:HA	1:J:293:LEU:HG	1.90	0.54
1:O:41:SER:H	2:O:901:GCP:H3B1	1.72	0.54
1:O:303:GLN:HG2	1:O:735:LEU:HD11	1.90	0.54
1:Q:303:GLN:HG2	1:Q:735:LEU:HD11	1.90	0.54
1:S:167:GLU:HG3	1:S:168:ASN:H	1.72	0.54
1:V:23:ILE:HG13	1:V:25:GLN:H	1.71	0.54
1:V:362:ILE:O	1:V:365:ILE:HG22	2.07	0.54
1:W:290:ARG:HA	1:W:293:LEU:HG	1.90	0.54
1:E2:290:ARG:HA	1:E2:293:LEU:HG	1.90	0.54
1:F2:402:LEU:HD23	1:F2:402:LEU:H	1.72	0.54
1:G2:303:GLN:HG2	1:G2:735:LEU:HD11	1.89	0.54
1:C2:23:ILE:HG13	1:C2:25:GLN:H	1.71	0.54
1:C2:350:GLN:N	1:A2:407:MET:HE2	2.16	0.54
1:C2:702:LEU:HD21	1:J2:330:LEU:HB3	1.90	0.54
1:A:6:MET:SD	1:A:129:VAL:HA	2.48	0.54
1:B:686:MET:HE3	1:X:485:TYR:CD1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:362:ILE:O	1:C:365:ILE:HG22	2.07	0.54
1:C:388:ILE:O	1:C:392:ILE:HG12	2.07	0.54
1:C:444:LYS:HA	1:C:453:ARG:HH11	1.72	0.54
1:G:113:LYS:O	1:G:148:GLN:NE2	2.37	0.54
1:H:290:ARG:HA	1:H:293:LEU:HG	1.90	0.54
1:I:6:MET:SD	1:I:129:VAL:HA	2.48	0.54
1:K:388:ILE:O	1:K:392:ILE:HG12	2.07	0.54
1:R:402:LEU:HD23	1:R:402:LEU:H	1.72	0.54
1:V:407:MET:HE2	1:X:350:GLN:N	2.21	0.54
1:W:85:HIS:NE2	1:W:100:GLU:OE2	2.41	0.54
1:I2:290:ARG:HA	1:I2:293:LEU:HG	1.90	0.54
1:J2:290:ARG:HA	1:J2:293:LEU:HG	1.90	0.54
1:C2:290:ARG:NH1	1:A2:458:ARG:HD3	2.19	0.54
1:D2:41:SER:H	2:D2:901:GCP:H3B1	1.72	0.54
1:D2:290:ARG:HA	1:D2:293:LEU:HG	1.90	0.54
1:A2:178:ASN:HB3	1:B2:178:ASN:HD22	1.73	0.54
1:C:465:ARG:O	1:C:468:GLU:HG2	2.08	0.54
1:F:167:GLU:HG3	1:F:168:ASN:H	1.72	0.54
1:F:290:ARG:HA	1:F:293:LEU:HG	1.90	0.54
1:P:402:LEU:HD23	1:P:402:LEU:H	1.72	0.54
1:T:6:MET:SD	1:T:129:VAL:HA	2.48	0.54
1:T:444:LYS:HA	1:T:453:ARG:HH11	1.72	0.54
1:X:402:LEU:HD23	1:X:402:LEU:H	1.72	0.54
1:H2:436:ILE:HG13	1:H2:461:THR:HG22	1.88	0.54
1:C2:402:LEU:HD23	1:C2:402:LEU:H	1.72	0.54
1:B:85:HIS:NE2	1:B:100:GLU:OE2	2.41	0.54
1:B:303:GLN:HG2	1:B:735:LEU:HD11	1.89	0.54
1:C:316:ASN:O	1:C:324:ARG:NH1	2.41	0.54
1:D:303:GLN:HG2	1:D:735:LEU:HD11	1.89	0.54
1:E:16:LEU:HD23	1:E:29:LEU:HD11	1.91	0.54
1:E:178:ASN:HB3	1:F:178:ASN:HD22	1.73	0.54
1:H:137:LEU:HD21	1:H:163:PHE:HD2	1.72	0.54
1:K:23:ILE:HG13	1:K:25:GLN:H	1.71	0.54
1:L:388:ILE:O	1:L:392:ILE:HG12	2.07	0.54
1:N:178:ASN:HB3	1:O:178:ASN:HD22	1.73	0.54
1:P:388:ILE:O	1:P:392:ILE:HG12	2.07	0.54
1:R:113:LYS:O	1:R:148:GLN:NE2	2.37	0.54
1:T:388:ILE:O	1:T:392:ILE:HG12	2.07	0.54
1:X:388:ILE:O	1:X:392:ILE:HG12	2.07	0.54
1:Y:85:HIS:NE2	1:Y:100:GLU:OE2	2.41	0.54
1:Z:178:ASN:HB3	1:E2:178:ASN:HD22	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G2:436:ILE:HG13	1:G2:461:THR:HG22	1.88	0.54
1:A2:16:LEU:HD23	1:A2:29:LEU:HD11	1.91	0.53
1:B2:167:GLU:HG3	1:B2:168:ASN:H	1.72	0.53
1:F:321:ASP:OD2	1:F:324:ARG:NE	2.33	0.53
1:G:465:ARG:O	1:G:468:GLU:HG2	2.09	0.53
1:K:316:ASN:O	1:K:324:ARG:NH1	2.42	0.53
1:K:402:LEU:HD23	1:K:402:LEU:H	1.72	0.53
1:K:465:ARG:O	1:K:468:GLU:HG2	2.09	0.53
1:L:316:ASN:O	1:L:324:ARG:NH1	2.41	0.53
1:O:167:GLU:HG3	1:O:168:ASN:H	1.73	0.53
1:Q:137:LEU:HD21	1:Q:163:PHE:HD2	1.72	0.53
1:Z:444:LYS:HA	1:Z:453:ARG:HH11	1.72	0.53
1:C2:465:ARG:O	1:C2:468:GLU:HG2	2.09	0.53
1:G:23:ILE:HG13	1:G:25:GLN:H	1.71	0.53
1:I:16:LEU:HD23	1:I:29:LEU:HD11	1.91	0.53
1:I:702:LEU:HD21	1:Q:330:LEU:HB3	1.89	0.53
1:L:16:LEU:HD23	1:L:29:LEU:HD11	1.91	0.53
1:L:465:ARG:O	1:L:468:GLU:HG2	2.09	0.53
1:M:360:ALA:HB1	1:O:397:GLY:CA	2.39	0.53
1:P:465:ARG:O	1:P:468:GLU:HG2	2.08	0.53
1:T:178:ASN:HB3	1:U:178:ASN:HD22	1.73	0.53
1:V:6:MET:SD	1:V:129:VAL:HA	2.48	0.53
1:X:178:ASN:HB3	1:Y:178:ASN:HD22	1.73	0.53
1:X:465:ARG:O	1:X:468:GLU:HG2	2.08	0.53
1:F2:16:LEU:HD23	1:F2:29:LEU:HD11	1.91	0.53
1:J2:167:GLU:HG3	1:J2:168:ASN:H	1.72	0.53
1:A:465:ARG:O	1:A:468:GLU:HG2	2.09	0.53
1:C:6:MET:SD	1:C:129:VAL:HA	2.48	0.53
1:C:16:LEU:HD23	1:C:29:LEU:HD11	1.91	0.53
1:I:113:LYS:O	1:I:148:GLN:NE2	2.37	0.53
1:R:178:ASN:HB3	1:S:178:ASN:HD22	1.73	0.53
1:U:85:HIS:NE2	1:U:100:GLU:OE2	2.41	0.53
1:V:465:ARG:O	1:V:468:GLU:HG2	2.08	0.53
1:V:717:GLU:HB3	1:V:721:GLN:NE2	2.24	0.53
1:X:23:ILE:HG13	1:X:25:GLN:H	1.71	0.53
1:C2:330:LEU:CD1	1:J2:702:LEU:HD12	2.33	0.53
1:D2:360:ALA:HB1	1:F:397:GLY:CA	2.39	0.53
1:B2:321:ASP:OD2	1:B2:324:ARG:NE	2.33	0.53
1:C:402:LEU:HD23	1:C:402:LEU:H	1.72	0.53
1:D:167:GLU:HG3	1:D:168:ASN:H	1.73	0.53
1:E:316:ASN:O	1:E:324:ARG:NH1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:316:ASN:O	1:N:324:ARG:NH1	2.42	0.53
1:O:228:ARG:HH21	1:Q:451:ARG:HB2	1.74	0.53
1:R:23:ILE:HG13	1:R:25:GLN:H	1.71	0.53
1:F2:6:MET:SD	1:F2:129:VAL:HA	2.48	0.53
1:I2:18:ASP:OD1	1:I2:75:ASN:ND2	2.38	0.53
1:C2:316:ASN:O	1:C2:324:ARG:NH1	2.42	0.53
1:A:316:ASN:O	1:A:324:ARG:NH1	2.42	0.53
1:I:316:ASN:O	1:I:324:ARG:NH1	2.42	0.53
1:K:6:MET:SD	1:K:129:VAL:HA	2.48	0.53
1:M:397:GLY:CA	1:J2:360:ALA:HB1	2.38	0.53
1:M:492:ASP:HB3	1:M:672:ILE:HD12	1.91	0.53
1:O:492:ASP:HB3	1:O:672:ILE:HD12	1.91	0.53
1:T:717:GLU:HB3	1:T:721:GLN:NE2	2.24	0.53
1:U:41:SER:H	2:U:901:GCP:H3B1	1.72	0.53
1:V:113:LYS:O	1:V:148:GLN:NE2	2.37	0.53
1:W:167:GLU:HG3	1:W:168:ASN:H	1.72	0.53
1:E2:41:SER:H	2:E2:901:GCP:H3B1	1.72	0.53
1:F2:316:ASN:O	1:F2:324:ARG:NH1	2.41	0.53
1:H2:85:HIS:NE2	1:H2:100:GLU:OE2	2.41	0.53
1:I2:85:HIS:NE2	1:I2:100:GLU:OE2	2.41	0.53
1:J2:492:ASP:HB3	1:J2:672:ILE:HD12	1.91	0.53
1:D2:228:ARG:HH21	1:F:451:ARG:HB2	1.72	0.53
1:B:484:ALA:HB2	1:X:687:HIS:HB2	1.91	0.53
1:H:361:ARG:NH1	1:J:393:LYS:HG2	2.24	0.53
1:P:316:ASN:O	1:P:324:ARG:NH1	2.41	0.53
1:Q:492:ASP:HB3	1:Q:672:ILE:HD12	1.91	0.53
1:R:717:GLU:HB3	1:R:721:GLN:NE2	2.24	0.53
1:T:465:ARG:O	1:T:468:GLU:HG2	2.09	0.53
1:X:316:ASN:O	1:X:324:ARG:NH1	2.41	0.53
1:Z:402:LEU:HD23	1:Z:402:LEU:H	1.72	0.53
1:H2:41:SER:H	2:H2:901:GCP:H3B1	1.72	0.53
1:H2:167:GLU:HG3	1:H2:168:ASN:H	1.72	0.53
1:J2:655:LEU:O	1:J2:659:VAL:HG12	2.09	0.53
1:D2:85:HIS:NE2	1:D2:100:GLU:OE2	2.41	0.53
1:D2:655:LEU:O	1:D2:659:VAL:HG12	2.09	0.53
1:A2:402:LEU:H	1:A2:402:LEU:HD23	1.72	0.53
1:B:400:THR:CA	1:D:364:ARG:HH21	2.09	0.53
1:F:85:HIS:NE2	1:F:100:GLU:OE2	2.41	0.53
1:K:113:LYS:O	1:K:148:GLN:NE2	2.37	0.53
1:K:702:LEU:HD21	1:S:330:LEU:HB3	1.90	0.53
1:R:465:ARG:O	1:R:468:GLU:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:228:ARG:HH21	1:U:451:ARG:HB2	1.74	0.53
1:D2:71:LEU:HD23	1:D2:134:LEU:HD22	1.91	0.53
1:A:178:ASN:HB3	1:B:178:ASN:HD22	1.73	0.53
1:G:316:ASN:O	1:G:324:ARG:NH1	2.42	0.53
1:H:18:ASP:OD1	1:H:75:ASN:ND2	2.38	0.53
1:I:178:ASN:HB3	1:J:178:ASN:HD22	1.73	0.53
1:M:321:ASP:OD2	1:M:324:ARG:NE	2.33	0.53
1:P:178:ASN:HB3	1:Q:178:ASN:HD22	1.73	0.53
1:P:480:ASP:OD2	1:I2:687:HIS:NE2	2.41	0.53
1:Q:71:LEU:HD23	1:Q:134:LEU:HD22	1.91	0.53
1:S:18:ASP:OD1	1:S:75:ASN:ND2	2.38	0.53
1:U:490:HIS:CG	1:U:491:GLU:H	2.27	0.53
1:X:717:GLU:HB3	1:X:721:GLN:NE2	2.24	0.53
1:Z:717:GLU:HB3	1:Z:721:GLN:NE2	2.24	0.53
1:H2:397:GLY:CA	1:I2:360:ALA:HB1	2.38	0.53
1:C2:350:GLN:CD	1:A2:411:THR:HG23	2.34	0.53
1:D2:490:HIS:CG	1:D2:491:GLU:H	2.27	0.53
1:F:655:LEU:O	1:F:659:VAL:HG12	2.09	0.53
1:G:178:ASN:HB3	1:H:178:ASN:HD22	1.73	0.53
1:G:422:GLU:HB2	1:G:423:PRO:HD3	1.91	0.53
1:J:71:LEU:HD23	1:J:134:LEU:HD22	1.91	0.53
1:J:492:ASP:HB3	1:J:672:ILE:HD12	1.91	0.53
1:N:465:ARG:O	1:N:468:GLU:HG2	2.09	0.53
1:S:492:ASP:HB3	1:S:672:ILE:HD12	1.91	0.53
1:Z:316:ASN:O	1:Z:324:ARG:NH1	2.42	0.53
1:E2:167:GLU:HG3	1:E2:168:ASN:H	1.72	0.53
1:F2:465:ARG:O	1:F2:468:GLU:HG2	2.09	0.53
1:J2:71:LEU:HD23	1:J2:134:LEU:HD22	1.91	0.53
1:A2:223:LYS:NZ	1:A:723:GLN:OE1	2.42	0.53
1:B2:71:LEU:HD23	1:B2:134:LEU:HD22	1.91	0.53
1:B2:655:LEU:O	1:B2:659:VAL:HG12	2.09	0.53
1:A:402:LEU:HD23	1:A:402:LEU:H	1.72	0.53
1:D:490:HIS:CG	1:D:491:GLU:H	2.27	0.53
1:E:422:GLU:HB2	1:E:423:PRO:HD3	1.91	0.53
1:F:492:ASP:HB3	1:F:672:ILE:HD12	1.91	0.53
1:H:492:ASP:HB3	1:H:672:ILE:HD12	1.91	0.53
1:M:655:LEU:O	1:M:659:VAL:HG12	2.09	0.53
1:O:71:LEU:HD23	1:O:134:LEU:HD22	1.91	0.53
1:P:485:TYR:HE1	1:I2:686:MET:HE1	1.67	0.53
1:P:717:GLU:HB3	1:P:721:GLN:NE2	2.24	0.53
1:S:71:LEU:HD23	1:S:134:LEU:HD22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:316:ASN:O	1:V:324:ARG:NH1	2.42	0.53
1:V:411:THR:HG23	1:X:350:GLN:CD	2.34	0.53
1:Z:458:ARG:HD3	1:F2:290:ARG:NH1	2.17	0.53
1:Z:458:ARG:NE	1:F2:290:ARG:HH22	2.06	0.53
1:Z:465:ARG:O	1:Z:468:GLU:HG2	2.08	0.53
1:D2:492:ASP:HB3	1:D2:672:ILE:HD12	1.91	0.52
1:B2:85:HIS:NE2	1:B2:100:GLU:OE2	2.41	0.52
1:E:411:THR:HG23	1:G:350:GLN:CD	2.34	0.52
1:F:71:LEU:HD23	1:F:134:LEU:HD22	1.91	0.52
1:H:85:HIS:NE2	1:H:100:GLU:OE2	2.41	0.52
1:K:16:LEU:HD23	1:K:29:LEU:HD11	1.91	0.52
1:L:422:GLU:HB2	1:L:423:PRO:HD3	1.91	0.52
1:P:16:LEU:HD23	1:P:29:LEU:HD11	1.91	0.52
1:P:50:ASN:HB3	1:P:274:THR:HG21	1.91	0.52
1:S:490:HIS:CG	1:S:491:GLU:H	2.27	0.52
1:T:50:ASN:HB3	1:T:274:THR:HG21	1.91	0.52
1:V:178:ASN:HB3	1:W:178:ASN:HD22	1.73	0.52
1:X:16:LEU:HD23	1:X:29:LEU:HD11	1.91	0.52
1:X:422:GLU:HB2	1:X:423:PRO:HD3	1.91	0.52
1:E2:85:HIS:NE2	1:E2:100:GLU:OE2	2.41	0.52
1:G2:451:ARG:HB2	1:H2:228:ARG:HH21	1.73	0.52
1:I2:222:ASN:ND2	1:I2:227:LEU:O	2.32	0.52
1:D2:361:ARG:NH1	1:F:393:LYS:HG2	2.25	0.52
1:B2:490:HIS:CG	1:B2:491:GLU:H	2.27	0.52
1:A:717:GLU:HB3	1:A:721:GLN:NE2	2.24	0.52
1:C:717:GLU:HB3	1:C:721:GLN:NE2	2.24	0.52
1:D:71:LEU:HD23	1:D:134:LEU:HD22	1.91	0.52
1:D:222:ASN:ND2	1:D:227:LEU:O	2.32	0.52
1:G:683:LYS:HG2	1:Q:485:TYR:HB3	1.91	0.52
1:H:71:LEU:HD23	1:H:134:LEU:HD22	1.91	0.52
1:K:422:GLU:HB2	1:K:423:PRO:HD3	1.91	0.52
1:M:71:LEU:HD23	1:M:134:LEU:HD22	1.91	0.52
1:P:668:SER:O	1:P:672:ILE:HG12	2.09	0.52
1:R:16:LEU:HD23	1:R:29:LEU:HD11	1.91	0.52
1:R:316:ASN:O	1:R:324:ARG:NH1	2.42	0.52
1:S:85:HIS:NE2	1:S:100:GLU:OE2	2.41	0.52
1:T:316:ASN:O	1:T:324:ARG:NH1	2.41	0.52
1:V:16:LEU:HD23	1:V:29:LEU:HD11	1.91	0.52
1:W:71:LEU:HD23	1:W:134:LEU:HD22	1.91	0.52
1:Y:228:ARG:HH21	1:E2:451:ARG:HB2	1.73	0.52
1:Y:490:HIS:CG	1:Y:491:GLU:H	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F2:422:GLU:HB2	1:F2:423:PRO:HD3	1.91	0.52
1:G2:490:HIS:CG	1:G2:491:GLU:H	2.27	0.52
1:J2:490:HIS:CG	1:J2:491:GLU:H	2.27	0.52
1:A2:465:ARG:O	1:A2:468:GLU:HG2	2.09	0.52
1:J:85:HIS:NE2	1:J:100:GLU:OE2	2.41	0.52
1:M:490:HIS:CG	1:M:491:GLU:H	2.27	0.52
1:N:422:GLU:HB2	1:N:423:PRO:HD3	1.91	0.52
1:T:668:SER:O	1:T:672:ILE:HG12	2.09	0.52
1:U:71:LEU:HD23	1:U:134:LEU:HD22	1.91	0.52
1:U:492:ASP:HB3	1:U:672:ILE:HD12	1.91	0.52
1:V:380:ASP:OD1	1:V:381:GLU:N	2.43	0.52
1:W:655:LEU:O	1:W:659:VAL:HG12	2.09	0.52
1:X:380:ASP:OD1	1:X:381:GLU:N	2.43	0.52
1:Y:71:LEU:HD23	1:Y:134:LEU:HD22	1.91	0.52
1:F2:380:ASP:OD1	1:F2:381:GLU:N	2.43	0.52
1:I2:71:LEU:HD23	1:I2:134:LEU:HD22	1.91	0.52
1:A2:316:ASN:O	1:A2:324:ARG:NH1	2.42	0.52
1:D:393:LYS:HG2	1:G2:361:ARG:NH1	2.22	0.52
1:D:655:LEU:O	1:D:659:VAL:HG12	2.09	0.52
1:E:465:ARG:O	1:E:468:GLU:HG2	2.08	0.52
1:G:157:ARG:O	1:G:161:MET:HG2	2.10	0.52
1:H:490:HIS:CG	1:H:491:GLU:H	2.27	0.52
1:H:655:LEU:O	1:H:659:VAL:HG12	2.09	0.52
1:I:422:GLU:HB2	1:I:423:PRO:HD3	1.91	0.52
1:I:683:LYS:HG2	1:S:485:TYR:HB3	1.92	0.52
1:J:490:HIS:CG	1:J:491:GLU:H	2.27	0.52
1:K:385:ARG:NH2	1:K:660:GLU:OE2	2.43	0.52
1:L:668:SER:O	1:L:672:ILE:HG12	2.09	0.52
1:T:113:LYS:O	1:T:148:GLN:NE2	2.37	0.52
1:V:458:ARG:HD3	1:X:290:ARG:NH1	2.22	0.52
1:H2:18:ASP:OD1	1:H2:75:ASN:ND2	2.38	0.52
1:H2:71:LEU:HD23	1:H2:134:LEU:HD22	1.91	0.52
1:A2:717:GLU:HB3	1:A2:721:GLN:NE2	2.24	0.52
1:B2:492:ASP:HB3	1:B2:672:ILE:HD12	1.91	0.52
1:B:71:LEU:HD23	1:B:134:LEU:HD22	1.91	0.52
1:B:655:LEU:O	1:B:659:VAL:HG12	2.09	0.52
1:F:222:ASN:ND2	1:F:227:LEU:O	2.32	0.52
1:F:361:ARG:NH1	1:H:393:LYS:HG2	2.25	0.52
1:I:465:ARG:O	1:I:468:GLU:HG2	2.09	0.52
1:R:668:SER:O	1:R:672:ILE:HG12	2.09	0.52
1:S:360:ALA:HB1	1:U:397:GLY:CA	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:480:ASP:OD2	1:G2:687:HIS:NE2	2.42	0.52
1:U:655:LEU:O	1:U:659:VAL:HG12	2.09	0.52
1:V:668:SER:O	1:V:672:ILE:HG12	2.09	0.52
1:W:490:HIS:CG	1:W:491:GLU:H	2.27	0.52
1:Y:655:LEU:O	1:Y:659:VAL:HG12	2.09	0.52
1:Z:157:ARG:O	1:Z:161:MET:HG2	2.10	0.52
1:Z:668:SER:O	1:Z:672:ILE:HG12	2.09	0.52
1:E2:71:LEU:HD23	1:E2:134:LEU:HD22	1.91	0.52
1:F2:717:GLU:HB3	1:F2:721:GLN:NE2	2.24	0.52
1:I2:490:HIS:CG	1:I2:491:GLU:H	2.27	0.52
1:J2:85:HIS:NE2	1:J2:100:GLU:OE2	2.41	0.52
1:A:16:LEU:HD23	1:A:29:LEU:HD11	1.91	0.52
1:A:57:LEU:O	1:A:59:ARG:NH1	2.43	0.52
1:A:668:SER:O	1:A:672:ILE:HG12	2.09	0.52
1:B:397:GLY:C	1:D:360:ALA:HB1	2.34	0.52
1:C:380:ASP:OD1	1:C:381:GLU:N	2.43	0.52
1:E:668:SER:O	1:E:672:ILE:HG12	2.09	0.52
1:G:16:LEU:HD23	1:G:29:LEU:HD11	1.91	0.52
1:I:385:ARG:NH2	1:I:660:GLU:OE2	2.43	0.52
1:N:717:GLU:HB3	1:N:721:GLN:NE2	2.24	0.52
1:Q:361:ARG:NH1	1:S:393:LYS:HG2	2.24	0.52
1:F2:385:ARG:NH2	1:F2:660:GLU:OE2	2.43	0.52
1:G2:655:LEU:O	1:G2:659:VAL:HG12	2.09	0.52
1:C2:16:LEU:HD23	1:C2:29:LEU:HD11	1.91	0.52
1:C2:422:GLU:HB2	1:C2:423:PRO:HD3	1.91	0.52
1:C2:717:GLU:HB3	1:C2:721:GLN:NE2	2.24	0.52
1:A:223:LYS:NZ	1:C:723:GLN:OE1	2.43	0.52
1:A:422:GLU:HB2	1:A:423:PRO:HD3	1.91	0.52
1:C:57:LEU:O	1:C:59:ARG:NH1	2.43	0.52
1:I:50:ASN:HB3	1:I:274:THR:HG21	1.91	0.52
1:I:157:ARG:O	1:I:161:MET:HG2	2.10	0.52
1:K:668:SER:O	1:K:672:ILE:HG12	2.09	0.52
1:L:385:ARG:NH2	1:L:660:GLU:OE2	2.43	0.52
1:N:183:ASN:HA	1:O:142:LYS:NZ	2.25	0.52
1:P:183:ASN:HA	1:Q:142:LYS:NZ	2.25	0.52
1:P:458:ARG:HD3	1:R:290:ARG:NH1	2.24	0.52
1:R:407:MET:HE2	1:T:350:GLN:N	2.16	0.52
1:X:50:ASN:HB3	1:X:274:THR:HG21	1.91	0.52
1:F2:157:ARG:O	1:F2:161:MET:HG2	2.10	0.52
1:G2:71:LEU:HD23	1:G2:134:LEU:HD22	1.91	0.52
1:C2:380:ASP:OD1	1:C2:381:GLU:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:385:ARG:NH2	1:A2:660:GLU:OE2	2.43	0.52
1:A:385:ARG:NH2	1:A:660:GLU:OE2	2.43	0.52
1:B:397:GLY:HA2	1:D:360:ALA:HB1	1.92	0.52
1:E:157:ARG:O	1:E:161:MET:HG2	2.10	0.52
1:E:380:ASP:OD1	1:E:381:GLU:N	2.43	0.52
1:G:407:MET:HE2	1:I:350:GLN:N	2.19	0.52
1:J:18:ASP:OD1	1:J:75:ASN:ND2	2.38	0.52
1:K:57:LEU:O	1:K:59:ARG:NH1	2.43	0.52
1:L:50:ASN:HB3	1:L:274:THR:HG21	1.91	0.52
1:O:655:LEU:O	1:O:659:VAL:HG12	2.09	0.52
1:R:183:ASN:HA	1:S:142:LYS:NZ	2.25	0.52
1:T:380:ASP:OD1	1:T:381:GLU:N	2.43	0.52
1:T:385:ARG:NH2	1:T:660:GLU:OE2	2.43	0.52
1:T:422:GLU:HB2	1:T:423:PRO:HD3	1.91	0.52
1:V:183:ASN:HA	1:W:142:LYS:NZ	2.25	0.52
1:I2:492:ASP:HB3	1:I2:672:ILE:HD12	1.91	0.52
1:A2:57:LEU:O	1:A2:59:ARG:NH1	2.43	0.52
1:A:157:ARG:O	1:A:161:MET:HG2	2.10	0.52
1:B:492:ASP:HB3	1:B:672:ILE:HD12	1.91	0.52
1:E:717:GLU:HB3	1:E:721:GLN:NE2	2.24	0.52
1:F:490:HIS:CG	1:F:491:GLU:H	2.27	0.52
1:G:385:ARG:NH2	1:G:660:GLU:OE2	2.43	0.52
1:I:57:LEU:O	1:I:59:ARG:NH1	2.43	0.52
1:I:183:ASN:HA	1:J:142:LYS:NZ	2.25	0.52
1:I:668:SER:O	1:I:672:ILE:HG12	2.09	0.52
1:L:57:LEU:O	1:L:59:ARG:NH1	2.43	0.52
1:L:183:ASN:HA	1:M:142:LYS:NZ	2.25	0.52
1:P:157:ARG:O	1:P:161:MET:HG2	2.10	0.52
1:Q:490:HIS:CG	1:Q:491:GLU:H	2.27	0.52
1:R:157:ARG:O	1:R:161:MET:HG2	2.10	0.52
1:R:385:ARG:NH2	1:R:660:GLU:OE2	2.43	0.52
1:S:655:LEU:O	1:S:659:VAL:HG12	2.09	0.52
1:V:385:ARG:NH2	1:V:660:GLU:OE2	2.43	0.52
1:W:492:ASP:HB3	1:W:672:ILE:HD12	1.91	0.52
1:X:157:ARG:O	1:X:161:MET:HG2	2.10	0.52
1:C2:385:ARG:NH2	1:C2:660:GLU:OE2	2.43	0.52
1:A2:422:GLU:HB2	1:A2:423:PRO:HD3	1.91	0.52
1:B2:686:MET:HE3	1:Z:485:TYR:CD1	2.43	0.52
1:E:458:ARG:HD3	1:G:290:ARG:NH1	2.21	0.52
1:G:485:TYR:HD1	1:Q:686:MET:HE3	1.73	0.52
1:G:485:TYR:HB3	1:Q:683:LYS:HG2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:485:TYR:HD1	1:S:686:MET:HE3	1.74	0.52
1:J:655:LEU:O	1:J:659:VAL:HG12	2.09	0.52
1:L:48:LEU:HD22	1:L:136:ASP:HB2	1.92	0.52
1:M:85:HIS:NE2	1:M:100:GLU:OE2	2.41	0.52
1:N:18:ASP:OD1	1:N:19:ALA:N	2.43	0.52
1:N:48:LEU:HD22	1:N:136:ASP:HB2	1.92	0.52
1:P:422:GLU:HB2	1:P:423:PRO:HD3	1.91	0.52
1:P:485:TYR:HD1	1:I2:686:MET:CE	2.21	0.52
1:Q:85:HIS:NE2	1:Q:100:GLU:OE2	2.41	0.52
1:R:18:ASP:OD1	1:R:19:ALA:N	2.43	0.52
1:R:380:ASP:OD1	1:R:381:GLU:N	2.43	0.52
1:X:668:SER:O	1:X:672:ILE:HG12	2.09	0.52
1:Z:16:LEU:HD23	1:Z:29:LEU:HD11	1.91	0.52
1:E2:655:LEU:O	1:E2:659:VAL:HG12	2.09	0.52
1:F2:668:SER:O	1:F2:672:ILE:HG12	2.09	0.52
1:A2:668:SER:O	1:A2:672:ILE:HG12	2.09	0.51
1:B2:393:LYS:HG2	1:B:361:ARG:NH1	2.26	0.51
1:E:683:LYS:HG2	1:O:485:TYR:HB3	1.92	0.51
1:G:668:SER:O	1:G:672:ILE:HG12	2.09	0.51
1:K:304:LEU:HA	1:K:307:ILE:HG22	1.92	0.51
1:P:385:ARG:NH2	1:P:660:GLU:OE2	2.43	0.51
1:Q:222:ASN:ND2	1:Q:227:LEU:O	2.32	0.51
1:S:361:ARG:NH1	1:U:393:LYS:HG2	2.24	0.51
1:U:18:ASP:OD1	1:U:75:ASN:ND2	2.38	0.51
1:X:385:ARG:NH2	1:X:660:GLU:OE2	2.43	0.51
1:H2:492:ASP:HB3	1:H2:672:ILE:HD12	1.91	0.51
1:J2:321:ASP:OD2	1:J2:324:ARG:NE	2.33	0.51
1:C2:668:SER:O	1:C2:672:ILE:HG12	2.09	0.51
1:A2:50:ASN:HB3	1:A2:274:THR:HG21	1.91	0.51
1:A2:157:ARG:O	1:A2:161:MET:HG2	2.10	0.51
1:A:18:ASP:OD1	1:A:19:ALA:N	2.43	0.51
1:B:490:HIS:CG	1:B:491:GLU:H	2.27	0.51
1:C:668:SER:O	1:C:672:ILE:HG12	2.09	0.51
1:D:492:ASP:HB3	1:D:672:ILE:HD12	1.91	0.51
1:E:183:ASN:HA	1:F:142:LYS:NZ	2.25	0.51
1:N:16:LEU:HD23	1:N:29:LEU:HD11	1.91	0.51
1:N:458:ARG:NE	1:P:290:ARG:HH22	2.08	0.51
1:N:668:SER:O	1:N:672:ILE:HG12	2.09	0.51
1:P:183:ASN:HA	1:Q:142:LYS:HZ1	1.75	0.51
1:R:57:LEU:O	1:R:59:ARG:NH1	2.43	0.51
1:R:485:TYR:HD1	1:H2:686:MET:CE	2.22	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:57:LEU:O	1:T:59:ARG:NH1	2.43	0.51
1:T:458:ARG:HD3	1:V:290:ARG:NH1	2.21	0.51
1:X:304:LEU:HA	1:X:307:ILE:HG22	1.92	0.51
1:Z:304:LEU:HA	1:Z:307:ILE:HG22	1.92	0.51
1:Z:385:ARG:NH2	1:Z:660:GLU:OE2	2.43	0.51
1:E2:490:HIS:CG	1:E2:491:GLU:H	2.27	0.51
1:G2:492:ASP:HB3	1:G2:672:ILE:HD12	1.91	0.51
1:H2:655:LEU:O	1:H2:659:VAL:HG12	2.09	0.51
1:C2:157:ARG:O	1:C2:161:MET:HG2	2.10	0.51
1:C2:304:LEU:HA	1:C2:307:ILE:HG22	1.92	0.51
1:C2:485:TYR:HD1	1:M:686:MET:HE3	1.75	0.51
1:D2:393:LYS:HG2	1:B2:361:ARG:NH1	2.25	0.51
1:C:157:ARG:O	1:C:161:MET:HG2	2.10	0.51
1:G:183:ASN:HA	1:H:142:LYS:NZ	2.25	0.51
1:G:380:ASP:OD1	1:G:381:GLU:N	2.43	0.51
1:G:717:GLU:HB3	1:G:721:GLN:NE2	2.24	0.51
1:K:380:ASP:OD1	1:K:381:GLU:N	2.43	0.51
1:N:50:ASN:HB3	1:N:274:THR:HG21	1.91	0.51
1:O:85:HIS:NE2	1:O:100:GLU:OE2	2.41	0.51
1:O:490:HIS:CG	1:O:491:GLU:H	2.27	0.51
1:Q:655:LEU:O	1:Q:659:VAL:HG12	2.09	0.51
1:R:330:LEU:CD1	1:I2:702:LEU:HD12	2.32	0.51
1:R:422:GLU:HB2	1:R:423:PRO:HD3	1.91	0.51
1:V:304:LEU:HA	1:V:307:ILE:HG22	1.92	0.51
1:V:422:GLU:HB2	1:V:423:PRO:HD3	1.91	0.51
1:X:57:LEU:O	1:X:59:ARG:NH1	2.43	0.51
1:X:364:ARG:HE	1:X:368:GLU:HG3	1.76	0.51
1:Z:57:LEU:O	1:Z:59:ARG:NH1	2.43	0.51
1:Z:183:ASN:HA	1:E2:142:LYS:NZ	2.25	0.51
1:C2:57:LEU:O	1:C2:59:ARG:NH1	2.43	0.51
1:A2:183:ASN:HA	1:B2:142:LYS:NZ	2.25	0.51
1:E:304:LEU:HA	1:E:307:ILE:HG22	1.92	0.51
1:E:385:ARG:NH2	1:E:660:GLU:OE2	2.43	0.51
1:I:364:ARG:HE	1:I:368:GLU:HG3	1.76	0.51
1:I:686:MET:HE1	1:S:485:TYR:CG	2.41	0.51
1:I:717:GLU:HB3	1:I:721:GLN:NE2	2.24	0.51
1:K:686:MET:HE1	1:U:485:TYR:CG	2.45	0.51
1:L:717:GLU:HB3	1:L:721:GLN:NE2	2.24	0.51
1:N:157:ARG:O	1:N:161:MET:HG2	2.10	0.51
1:N:385:ARG:NH2	1:N:660:GLU:OE2	2.43	0.51
1:P:411:THR:HG23	1:R:350:GLN:CD	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:50:ASN:HB3	1:R:274:THR:HG21	1.91	0.51
1:R:364:ARG:HE	1:R:368:GLU:HG3	1.76	0.51
1:T:157:ARG:O	1:T:161:MET:HG2	2.10	0.51
1:Y:492:ASP:HB3	1:Y:672:ILE:HD12	1.91	0.51
1:F2:18:ASP:OD1	1:F2:19:ALA:N	2.43	0.51
1:I2:655:LEU:O	1:I2:659:VAL:HG12	2.09	0.51
1:J2:222:ASN:ND2	1:J2:227:LEU:O	2.32	0.51
1:C2:50:ASN:HB3	1:C2:274:THR:HG21	1.91	0.51
1:D2:485:TYR:HB3	1:F2:683:LYS:HG2	1.93	0.51
1:C:385:ARG:NH2	1:C:660:GLU:OE2	2.43	0.51
1:E:48:LEU:HD22	1:E:136:ASP:HB2	1.92	0.51
1:G:48:LEU:HD22	1:G:136:ASP:HB2	1.92	0.51
1:G:57:LEU:O	1:G:59:ARG:NH1	2.43	0.51
1:P:48:LEU:HD22	1:P:136:ASP:HB2	1.92	0.51
1:V:57:LEU:O	1:V:59:ARG:NH1	2.43	0.51
1:X:356:LEU:HD11	1:X:361:ARG:HG2	1.93	0.51
1:E2:492:ASP:HB3	1:E2:672:ILE:HD12	1.91	0.51
1:C2:44:LYS:HZ2	1:C2:139:GLY:HA2	1.75	0.51
1:A2:304:LEU:HA	1:A2:307:ILE:HG22	1.92	0.51
1:A2:380:ASP:OD1	1:A2:381:GLU:N	2.43	0.51
1:A:295:GLY:HA2	1:A:298:ASN:ND2	2.26	0.51
1:E:485:TYR:HB3	1:O:683:LYS:HG2	1.92	0.51
1:G:304:LEU:HA	1:G:307:ILE:HG22	1.92	0.51
1:I:18:ASP:OD1	1:I:19:ALA:N	2.43	0.51
1:K:18:ASP:OD1	1:K:19:ALA:N	2.43	0.51
1:K:157:ARG:O	1:K:161:MET:HG2	2.10	0.51
1:K:683:LYS:HG2	1:U:485:TYR:HB3	1.93	0.51
1:K:717:GLU:HB3	1:K:721:GLN:NE2	2.24	0.51
1:L:380:ASP:OD1	1:L:381:GLU:N	2.43	0.51
1:N:304:LEU:HA	1:N:307:ILE:HG22	1.92	0.51
1:P:57:LEU:O	1:P:59:ARG:NH1	2.43	0.51
1:P:380:ASP:OD1	1:P:381:GLU:N	2.43	0.51
1:T:183:ASN:HA	1:U:142:LYS:NZ	2.25	0.51
1:T:683:LYS:HG2	1:G2:485:TYR:HB3	1.93	0.51
1:U:361:ARG:NH1	1:W:393:LYS:HG2	2.24	0.51
1:V:18:ASP:OD1	1:V:19:ALA:N	2.43	0.51
1:X:458:ARG:HD3	1:Z:290:ARG:NH1	2.25	0.51
1:Z:356:LEU:HD11	1:Z:361:ARG:HG2	1.93	0.51
1:Z:380:ASP:OD1	1:Z:381:GLU:N	2.43	0.51
1:Z:422:GLU:HB2	1:Z:423:PRO:HD3	1.91	0.51
1:H2:490:HIS:CG	1:H2:491:GLU:H	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I2:144:PRO:HG3	1:I2:150:PRO:HA	1.93	0.51
1:A2:18:ASP:OD1	1:A2:19:ALA:N	2.43	0.51
1:A2:356:LEU:HD11	1:A2:361:ARG:HG2	1.93	0.51
1:C:18:ASP:OD1	1:C:19:ALA:N	2.43	0.51
1:I:304:LEU:HA	1:I:307:ILE:HG22	1.92	0.51
1:I:380:ASP:OD1	1:I:381:GLU:N	2.43	0.51
1:K:356:LEU:HD11	1:K:361:ARG:HG2	1.93	0.51
1:K:364:ARG:HE	1:K:368:GLU:HG3	1.76	0.51
1:L:304:LEU:HA	1:L:307:ILE:HG22	1.92	0.51
1:P:18:ASP:OD1	1:P:19:ALA:N	2.43	0.51
1:P:356:LEU:HD11	1:P:361:ARG:HG2	1.93	0.51
1:P:364:ARG:HE	1:P:368:GLU:HG3	1.76	0.51
1:T:304:LEU:HA	1:T:307:ILE:HG22	1.92	0.51
1:V:157:ARG:O	1:V:161:MET:HG2	2.10	0.51
1:W:222:ASN:ND2	1:W:227:LEU:O	2.32	0.51
1:W:361:ARG:NH1	1:Y:393:LYS:HG2	2.24	0.51
1:C2:183:ASN:HA	1:D2:142:LYS:NZ	2.25	0.51
1:C2:295:GLY:HA2	1:C2:298:ASN:ND2	2.26	0.51
1:C2:356:LEU:HD11	1:C2:361:ARG:HG2	1.93	0.51
1:A2:142:LYS:NZ	1:B2:185:ASP:OD1	2.30	0.51
1:A2:446:LEU:O	1:A2:446:LEU:HD23	2.11	0.51
1:A:304:LEU:HA	1:A:307:ILE:HG22	1.92	0.51
1:C:356:LEU:HD11	1:C:361:ARG:HG2	1.93	0.51
1:C:364:ARG:HE	1:C:368:GLU:HG3	1.76	0.51
1:C:422:GLU:HB2	1:C:423:PRO:HD3	1.91	0.51
1:F:144:PRO:HG3	1:F:150:PRO:HA	1.93	0.51
1:N:295:GLY:HA2	1:N:298:ASN:ND2	2.26	0.51
1:P:295:GLY:HA2	1:P:298:ASN:ND2	2.26	0.51
1:R:295:GLY:HA2	1:R:298:ASN:ND2	2.26	0.51
1:T:18:ASP:OD1	1:T:19:ALA:N	2.43	0.51
1:W:18:ASP:OD1	1:W:75:ASN:ND2	2.38	0.51
1:F2:295:GLY:HA2	1:F2:298:ASN:ND2	2.26	0.51
1:F2:304:LEU:HA	1:F2:307:ILE:HG22	1.92	0.51
1:F2:356:LEU:HD11	1:F2:361:ARG:HG2	1.93	0.51
1:F2:446:LEU:HD23	1:F2:446:LEU:O	2.11	0.51
1:G2:18:ASP:OD1	1:G2:75:ASN:ND2	2.38	0.51
1:H2:144:PRO:HG3	1:H2:150:PRO:HA	1.93	0.51
1:C2:67:ARG:NH1	1:C2:104:GLU:OE2	2.43	0.51
1:C2:364:ARG:HE	1:C2:368:GLU:HG3	1.76	0.51
1:C2:446:LEU:HD23	1:C2:446:LEU:O	2.11	0.51
1:D2:144:PRO:HG3	1:D2:150:PRO:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:356:LEU:HD11	1:A:361:ARG:HG2	1.93	0.51
1:C:50:ASN:HB3	1:C:274:THR:HG21	1.91	0.51
1:E:18:ASP:OD1	1:E:19:ALA:N	2.43	0.51
1:E:57:LEU:O	1:E:59:ARG:NH1	2.43	0.51
1:I:48:LEU:HD22	1:I:136:ASP:HB2	1.92	0.51
1:I:356:LEU:HD11	1:I:361:ARG:HG2	1.93	0.51
1:L:18:ASP:OD1	1:L:19:ALA:N	2.43	0.51
1:L:157:ARG:O	1:L:161:MET:HG2	2.10	0.51
1:N:57:LEU:O	1:N:59:ARG:NH1	2.43	0.51
1:N:380:ASP:OD1	1:N:381:GLU:N	2.43	0.51
1:P:304:LEU:HA	1:P:307:ILE:HG22	1.92	0.51
1:E2:144:PRO:HG3	1:E2:150:PRO:HA	1.93	0.51
1:F2:57:LEU:O	1:F2:59:ARG:NH1	2.43	0.51
1:G2:144:PRO:HG3	1:G2:150:PRO:HA	1.93	0.51
1:C2:290:ARG:HH22	1:A2:458:ARG:NE	2.08	0.51
1:B2:144:PRO:HG3	1:B2:150:PRO:HA	1.93	0.51
1:A:446:LEU:HD23	1:A:446:LEU:O	2.11	0.51
1:B:144:PRO:HG3	1:B:150:PRO:HA	1.93	0.51
1:D:144:PRO:HG3	1:D:150:PRO:HA	1.93	0.51
1:L:364:ARG:HE	1:L:368:GLU:HG3	1.76	0.51
1:M:222:ASN:ND2	1:M:227:LEU:O	2.32	0.51
1:T:16:LEU:HD23	1:T:29:LEU:HD11	1.91	0.51
1:W:228:ARG:HH21	1:Y:451:ARG:HB2	1.76	0.51
1:X:48:LEU:HD22	1:X:136:ASP:HB2	1.92	0.51
1:Y:144:PRO:HG3	1:Y:150:PRO:HA	1.93	0.51
1:Z:364:ARG:HE	1:Z:368:GLU:HG3	1.76	0.51
1:J2:144:PRO:HG3	1:J2:150:PRO:HA	1.93	0.51
1:C2:48:LEU:HD22	1:C2:136:ASP:HB2	1.92	0.50
1:D2:451:ARG:HB2	1:B2:228:ARG:HH21	1.76	0.50
1:A:50:ASN:HB3	1:A:274:THR:HG21	1.91	0.50
1:C:304:LEU:HA	1:C:307:ILE:HG22	1.92	0.50
1:D:343:ARG:HD3	1:D:358:GLY:HA3	1.93	0.50
1:E:263:PRO:HA	1:E:266:ARG:HE	1.77	0.50
1:G:263:PRO:HA	1:G:266:ARG:HE	1.77	0.50
1:H:144:PRO:HG3	1:H:150:PRO:HA	1.93	0.50
1:I:485:TYR:HB3	1:S:683:LYS:HG2	1.92	0.50
1:J:144:PRO:HG3	1:J:150:PRO:HA	1.93	0.50
1:N:395:ILE:HG22	1:P:351:ILE:HD12	1.93	0.50
1:R:48:LEU:HD22	1:R:136:ASP:HB2	1.92	0.50
1:T:295:GLY:HA2	1:T:298:ASN:ND2	2.26	0.50
1:W:144:PRO:HG3	1:W:150:PRO:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:343:ARG:HD3	1:Y:358:GLY:HA3	1.94	0.50
1:Z:50:ASN:HB3	1:Z:274:THR:HG21	1.91	0.50
1:G2:343:ARG:HD3	1:G2:358:GLY:HA3	1.94	0.50
1:J2:18:ASP:OD1	1:J2:75:ASN:ND2	2.38	0.50
1:C2:458:ARG:HD3	1:E:290:ARG:NH1	2.22	0.50
1:B2:343:ARG:HD3	1:B2:358:GLY:HA3	1.94	0.50
1:E:446:LEU:O	1:E:446:LEU:HD23	2.11	0.50
1:G:458:ARG:HD3	1:I:290:ARG:NH1	2.23	0.50
1:L:263:PRO:HA	1:L:266:ARG:HE	1.77	0.50
1:N:263:PRO:HA	1:N:266:ARG:HE	1.77	0.50
1:N:356:LEU:HD11	1:N:361:ARG:HG2	1.93	0.50
1:Q:228:ARG:HH21	1:S:451:ARG:HB2	1.75	0.50
1:R:304:LEU:HA	1:R:307:ILE:HG22	1.92	0.50
1:R:356:LEU:HD11	1:R:361:ARG:HG2	1.93	0.50
1:S:144:PRO:HG3	1:S:150:PRO:HA	1.93	0.50
1:T:364:ARG:HE	1:T:368:GLU:HG3	1.76	0.50
1:T:485:TYR:HB3	1:G2:683:LYS:HG2	1.94	0.50
1:U:144:PRO:HG3	1:U:150:PRO:HA	1.93	0.50
1:V:48:LEU:HD22	1:V:136:ASP:HB2	1.92	0.50
1:V:356:LEU:HD11	1:V:361:ARG:HG2	1.93	0.50
1:Z:446:LEU:HD23	1:Z:446:LEU:O	2.11	0.50
1:I2:343:ARG:HD3	1:I2:358:GLY:HA3	1.94	0.50
1:B:343:ARG:HD3	1:B:358:GLY:HA3	1.94	0.50
1:B:393:LYS:HG2	1:D:361:ARG:NH1	2.27	0.50
1:G:50:ASN:HB3	1:G:274:THR:HG21	1.91	0.50
1:H:222:ASN:ND2	1:H:227:LEU:O	2.32	0.50
1:K:50:ASN:HB3	1:K:274:THR:HG21	1.91	0.50
1:L:295:GLY:HA2	1:L:298:ASN:ND2	2.26	0.50
1:M:144:PRO:HG3	1:M:150:PRO:HA	1.93	0.50
1:N:183:ASN:HA	1:O:142:LYS:HZ1	1.77	0.50
1:O:144:PRO:HG3	1:O:150:PRO:HA	1.93	0.50
1:Q:144:PRO:HG3	1:Q:150:PRO:HA	1.93	0.50
1:X:18:ASP:OD1	1:X:19:ALA:N	2.43	0.50
1:F2:50:ASN:HB3	1:F2:274:THR:HG21	1.91	0.50
1:C2:263:PRO:HA	1:C2:266:ARG:HE	1.77	0.50
1:D2:18:ASP:OD1	1:D2:75:ASN:ND2	2.38	0.50
1:E:356:LEU:HD11	1:E:361:ARG:HG2	1.93	0.50
1:F:343:ARG:HD3	1:F:358:GLY:HA3	1.94	0.50
1:K:485:TYR:HB3	1:U:683:LYS:HG2	1.93	0.50
1:L:446:LEU:HD23	1:L:446:LEU:O	2.11	0.50
1:T:370:PHE:N	1:T:371:PRO:HD2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:50:ASN:HB3	1:V:274:THR:HG21	1.91	0.50
1:X:295:GLY:HA2	1:X:298:ASN:ND2	2.26	0.50
1:X:370:PHE:N	1:X:371:PRO:HD2	2.27	0.50
1:Z:370:PHE:N	1:Z:371:PRO:HD2	2.27	0.50
1:C2:18:ASP:OD1	1:C2:19:ALA:N	2.43	0.50
1:D2:343:ARG:HD3	1:D2:358:GLY:HA3	1.94	0.50
1:D2:445:LYS:HG3	1:D2:446:LEU:HD22	1.94	0.50
1:A:113:LYS:O	1:A:148:GLN:NE2	2.37	0.50
1:C:113:LYS:O	1:C:148:GLN:NE2	2.37	0.50
1:C:446:LEU:O	1:C:446:LEU:HD23	2.11	0.50
1:E:50:ASN:HB3	1:E:274:THR:HG21	1.91	0.50
1:E:95:GLU:OE1	1:E:98:ARG:NH2	2.41	0.50
1:E:364:ARG:HE	1:E:368:GLU:HG3	1.76	0.50
1:G:18:ASP:OD1	1:G:19:ALA:N	2.43	0.50
1:G:295:GLY:HA2	1:G:298:ASN:ND2	2.26	0.50
1:I:263:PRO:HA	1:I:266:ARG:HE	1.77	0.50
1:R:480:ASP:OD2	1:H2:687:HIS:NE2	2.44	0.50
1:V:364:ARG:HE	1:V:368:GLU:HG3	1.76	0.50
1:W:343:ARG:HD3	1:W:358:GLY:HA3	1.94	0.50
1:X:183:ASN:HA	1:Y:142:LYS:NZ	2.25	0.50
1:Z:48:LEU:HD22	1:Z:136:ASP:HB2	1.92	0.50
1:F2:370:PHE:N	1:F2:371:PRO:HD2	2.27	0.50
1:G2:714:LEU:O	1:G2:715:MET:HG2	2.12	0.50
1:H2:343:ARG:HD3	1:H2:358:GLY:HA3	1.94	0.50
1:A2:370:PHE:N	1:A2:371:PRO:HD2	2.27	0.50
1:A2:485:TYR:HD1	1:J2:686:MET:HE3	1.75	0.50
1:B2:445:LYS:HG3	1:B2:446:LEU:HD22	1.94	0.50
1:A:183:ASN:HA	1:B:142:LYS:NZ	2.25	0.50
1:A:364:ARG:HE	1:A:368:GLU:HG3	1.76	0.50
1:A:380:ASP:OD1	1:A:381:GLU:N	2.43	0.50
1:B:714:LEU:O	1:B:715:MET:HG2	2.12	0.50
1:C:295:GLY:HA2	1:C:298:ASN:ND2	2.26	0.50
1:H:714:LEU:O	1:H:715:MET:HG2	2.12	0.50
1:I:295:GLY:HA2	1:I:298:ASN:ND2	2.26	0.50
1:K:48:LEU:HD22	1:K:136:ASP:HB2	1.92	0.50
1:K:295:GLY:HA2	1:K:298:ASN:ND2	2.26	0.50
1:L:95:GLU:OE1	1:L:98:ARG:NH2	2.41	0.50
1:M:714:LEU:O	1:M:715:MET:HG2	2.12	0.50
1:Q:360:ALA:HB1	1:S:397:GLY:CA	2.40	0.50
1:Z:18:ASP:OD1	1:Z:19:ALA:N	2.43	0.50
1:Z:67:ARG:NH1	1:Z:104:GLU:OE2	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E2:18:ASP:OD1	1:E2:75:ASN:ND2	2.38	0.50
1:E2:343:ARG:HD3	1:E2:358:GLY:HA3	1.94	0.50
1:J2:445:LYS:HG3	1:J2:446:LEU:HD22	1.94	0.50
1:C2:683:LYS:HG2	1:M:485:TYR:HB3	1.93	0.50
1:D2:485:TYR:CG	1:F2:686:MET:HE1	2.46	0.50
1:D2:714:LEU:O	1:D2:715:MET:HG2	2.12	0.50
1:A2:113:LYS:O	1:A2:148:GLN:NE2	2.37	0.50
1:C:48:LEU:HD22	1:C:136:ASP:HB2	1.92	0.50
1:C:370:PHE:N	1:C:371:PRO:HD2	2.27	0.50
1:E:295:GLY:HA2	1:E:298:ASN:ND2	2.26	0.50
1:F:445:LYS:HG3	1:F:446:LEU:HD22	1.94	0.50
1:K:330:LEU:CD1	1:S:702:LEU:HD12	2.32	0.50
1:P:263:PRO:HA	1:P:266:ARG:HE	1.76	0.50
1:P:370:PHE:N	1:P:371:PRO:HD2	2.27	0.50
1:S:343:ARG:HD3	1:S:358:GLY:HA3	1.93	0.50
1:U:343:ARG:HD3	1:U:358:GLY:HA3	1.94	0.50
1:V:295:GLY:HA2	1:V:298:ASN:ND2	2.26	0.50
1:V:370:PHE:N	1:V:371:PRO:HD2	2.27	0.50
1:X:446:LEU:O	1:X:446:LEU:HD23	2.11	0.50
1:E2:445:LYS:HG3	1:E2:446:LEU:HD22	1.94	0.50
1:A:48:LEU:HD22	1:A:136:ASP:HB2	1.92	0.50
1:B:445:LYS:HG3	1:B:446:LEU:HD22	1.94	0.50
1:D:485:TYR:CG	1:V:686:MET:HE1	2.42	0.50
1:G:356:LEU:HD11	1:G:361:ARG:HG2	1.93	0.50
1:G:364:ARG:HE	1:G:368:GLU:HG3	1.76	0.50
1:G:446:LEU:HD23	1:G:446:LEU:O	2.11	0.50
1:P:364:ARG:NH1	1:I2:489:ASN:HD21	2.10	0.50
1:S:222:ASN:ND2	1:S:227:LEU:O	2.32	0.50
1:G2:393:LYS:HG2	1:H2:361:ARG:NH1	2.27	0.50
1:C2:723:GLN:OE1	1:E:223:LYS:NZ	2.44	0.50
1:A2:295:GLY:HA2	1:A2:298:ASN:ND2	2.26	0.50
1:I:183:ASN:HA	1:J:142:LYS:HZ1	1.77	0.50
1:I:446:LEU:HD23	1:I:446:LEU:O	2.11	0.50
1:K:67:ARG:NH1	1:K:104:GLU:OE2	2.43	0.50
1:K:370:PHE:N	1:K:371:PRO:HD2	2.27	0.50
1:K:416:GLN:HA	1:K:419:LYS:HZ3	1.77	0.50
1:M:343:ARG:HD3	1:M:358:GLY:HA3	1.94	0.50
1:P:67:ARG:NH1	1:P:104:GLU:OE2	2.43	0.50
1:R:458:ARG:NE	1:T:290:ARG:HH22	2.10	0.50
1:R:723:GLN:OE1	1:T:223:LYS:NZ	2.44	0.50
1:T:48:LEU:HD22	1:T:136:ASP:HB2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:330:LEU:CD1	1:G2:702:LEU:HD13	2.24	0.50
1:V:446:LEU:O	1:V:446:LEU:HD23	2.11	0.50
1:Y:18:ASP:OD1	1:Y:75:ASN:ND2	2.38	0.50
1:F2:48:LEU:HD22	1:F2:136:ASP:HB2	1.92	0.50
1:C2:95:GLU:OE1	1:C2:98:ARG:NH2	2.41	0.49
1:A2:416:GLN:HA	1:A2:419:LYS:HZ3	1.77	0.49
1:E:370:PHE:N	1:E:371:PRO:HD2	2.27	0.49
1:G:411:THR:HG23	1:I:350:GLN:CD	2.36	0.49
1:G:416:GLN:HA	1:G:419:LYS:HZ3	1.77	0.49
1:I:416:GLN:HA	1:I:419:LYS:HZ3	1.77	0.49
1:K:446:LEU:O	1:K:446:LEU:HD23	2.11	0.49
1:L:416:GLN:HA	1:L:419:LYS:HZ3	1.77	0.49
1:M:445:LYS:HG3	1:M:446:LEU:HD22	1.94	0.49
1:N:446:LEU:O	1:N:446:LEU:HD23	2.11	0.49
1:O:360:ALA:HB1	1:Q:397:GLY:CA	2.41	0.49
1:R:683:LYS:HG2	1:H2:485:TYR:HB3	1.94	0.49
1:T:723:GLN:OE1	1:V:223:LYS:NZ	2.44	0.49
1:X:416:GLN:HA	1:X:419:LYS:HZ3	1.77	0.49
1:Z:295:GLY:HA2	1:Z:298:ASN:ND2	2.26	0.49
1:F2:263:PRO:HA	1:F2:266:ARG:HE	1.77	0.49
1:I2:445:LYS:HG3	1:I2:446:LEU:HD22	1.94	0.49
1:J2:343:ARG:HD3	1:J2:358:GLY:HA3	1.94	0.49
1:C2:370:PHE:N	1:C2:371:PRO:HD2	2.27	0.49
1:C2:407:MET:HE2	1:E:350:GLN:N	2.20	0.49
1:C2:485:TYR:HB3	1:M:683:LYS:HG2	1.94	0.49
1:B2:485:TYR:CD1	1:Z:686:MET:CE	2.91	0.49
1:A:370:PHE:N	1:A:371:PRO:HD2	2.27	0.49
1:A:416:GLN:HA	1:A:419:LYS:HZ3	1.77	0.49
1:D:445:LYS:HG3	1:D:446:LEU:HD22	1.94	0.49
1:H:343:ARG:HD3	1:H:358:GLY:HA3	1.94	0.49
1:J:222:ASN:ND2	1:J:227:LEU:O	2.32	0.49
1:J:343:ARG:HD3	1:J:358:GLY:HA3	1.94	0.49
1:K:95:GLU:OE1	1:K:98:ARG:NH2	2.41	0.49
1:O:343:ARG:HD3	1:O:358:GLY:HA3	1.93	0.49
1:S:714:LEU:O	1:S:715:MET:HG2	2.12	0.49
1:T:485:TYR:HD1	1:G2:686:MET:HE3	1.74	0.49
1:Y:714:LEU:O	1:Y:715:MET:HG2	2.12	0.49
1:F2:364:ARG:HE	1:F2:368:GLU:HG3	1.76	0.49
1:H2:393:LYS:HG2	1:I2:361:ARG:NH1	2.26	0.49
1:C2:142:LYS:NZ	1:D2:185:ASP:OD1	2.30	0.49
1:C:143:VAL:HG22	1:D:182:ALA:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:263:PRO:HA	1:C:266:ARG:HE	1.77	0.49
1:F:228:ARG:HH21	1:H:451:ARG:HB2	1.77	0.49
1:G:370:PHE:N	1:G:371:PRO:HD2	2.27	0.49
1:H:445:LYS:HG3	1:H:446:LEU:HD22	1.94	0.49
1:K:263:PRO:HA	1:K:266:ARG:HE	1.77	0.49
1:L:370:PHE:N	1:L:371:PRO:HD2	2.27	0.49
1:M:18:ASP:OD1	1:M:75:ASN:ND2	2.38	0.49
1:N:364:ARG:HE	1:N:368:GLU:HG3	1.76	0.49
1:N:398:ILE:HD12	1:P:344:ILE:HG23	1.94	0.49
1:T:446:LEU:HD23	1:T:446:LEU:O	2.11	0.49
1:W:714:LEU:O	1:W:715:MET:HG2	2.12	0.49
1:Z:263:PRO:HA	1:Z:266:ARG:HE	1.77	0.49
1:I2:714:LEU:O	1:I2:715:MET:HG2	2.12	0.49
1:C2:113:LYS:O	1:C2:148:GLN:NE2	2.37	0.49
1:D2:683:LYS:HG2	1:F2:485:TYR:HB3	1.93	0.49
1:D2:686:MET:HE3	1:F2:485:TYR:HD1	1.74	0.49
1:E:416:GLN:HA	1:E:419:LYS:HZ3	1.77	0.49
1:L:356:LEU:HD11	1:L:361:ARG:HG2	1.93	0.49
1:O:714:LEU:O	1:O:715:MET:HG2	2.12	0.49
1:Q:343:ARG:HD3	1:Q:358:GLY:HA3	1.94	0.49
1:S:445:LYS:HG3	1:S:446:LEU:HD22	1.94	0.49
1:X:10:ILE:HG22	1:X:130:LEU:HD23	1.95	0.49
1:F2:10:ILE:HG22	1:F2:130:LEU:HD23	1.95	0.49
1:F2:416:GLN:HA	1:F2:419:LYS:HZ3	1.77	0.49
1:C2:480:ASP:OD2	1:M:687:HIS:NE2	2.46	0.49
1:A2:48:LEU:HD22	1:A2:136:ASP:HB2	1.92	0.49
1:A2:263:PRO:HA	1:A2:266:ARG:HE	1.77	0.49
1:A2:364:ARG:HE	1:A2:368:GLU:HG3	1.76	0.49
1:D:18:ASP:OD1	1:D:75:ASN:ND2	2.38	0.49
1:I:95:GLU:OE1	1:I:98:ARG:NH2	2.41	0.49
1:Q:714:LEU:O	1:Q:715:MET:HG2	2.12	0.49
1:R:325:LYS:NZ	1:R:715:MET:O	2.46	0.49
1:T:416:GLN:HA	1:T:419:LYS:HZ3	1.77	0.49
1:U:228:ARG:HH21	1:W:451:ARG:HB2	1.76	0.49
1:V:263:PRO:HA	1:V:266:ARG:HE	1.76	0.49
1:X:263:PRO:HA	1:X:266:ARG:HE	1.77	0.49
1:Y:360:ALA:HB1	1:E2:397:GLY:CA	2.42	0.49
1:Z:10:ILE:HG22	1:Z:130:LEU:HD23	1.95	0.49
1:C2:223:LYS:NZ	1:A2:723:GLN:OE1	2.45	0.49
1:C2:416:GLN:HA	1:C2:419:LYS:HZ3	1.77	0.49
1:D2:468:GLU:HA	1:D2:471:THR:HG22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:67:ARG:NH1	1:A2:104:GLU:OE2	2.43	0.49
1:C:325:LYS:NZ	1:C:715:MET:O	2.46	0.49
1:F:270:ASP:OD1	1:F:271:ARG:N	2.46	0.49
1:F:714:LEU:O	1:F:715:MET:HG2	2.12	0.49
1:G:480:ASP:OD2	1:Q:687:HIS:NE2	2.45	0.49
1:H:468:GLU:HA	1:H:471:THR:HG22	1.95	0.49
1:I:370:PHE:N	1:I:371:PRO:HD2	2.27	0.49
1:L:113:LYS:O	1:L:148:GLN:NE2	2.37	0.49
1:M:393:LYS:HG2	1:J2:361:ARG:NH1	2.27	0.49
1:N:95:GLU:OE1	1:N:98:ARG:NH2	2.41	0.49
1:O:270:ASP:OD1	1:O:271:ARG:N	2.46	0.49
1:R:364:ARG:NH1	1:H2:489:ASN:HD21	2.10	0.49
1:R:370:PHE:N	1:R:371:PRO:HD2	2.27	0.49
1:T:356:LEU:HD11	1:T:361:ARG:HG2	1.93	0.49
1:U:360:ALA:HB1	1:W:397:GLY:CA	2.42	0.49
1:U:445:LYS:HG3	1:U:446:LEU:HD22	1.94	0.49
1:U:696:PHE:CD1	1:U:700:GLU:HB3	2.48	0.49
1:Y:696:PHE:CD1	1:Y:700:GLU:HB3	2.48	0.49
1:E2:714:LEU:O	1:E2:715:MET:HG2	2.12	0.49
1:H2:445:LYS:HG3	1:H2:446:LEU:HD22	1.94	0.49
1:J2:408:ALA:O	1:J2:412:ILE:HG12	2.13	0.49
1:D2:408:ALA:O	1:D2:412:ILE:HG12	2.13	0.49
1:B2:408:ALA:O	1:B2:412:ILE:HG12	2.13	0.49
1:A:350:GLN:CD	1:C:411:THR:HG23	2.37	0.49
1:C:10:ILE:HG22	1:C:130:LEU:HD23	1.95	0.49
1:E:325:LYS:NZ	1:E:715:MET:O	2.46	0.49
1:F:696:PHE:CD1	1:F:700:GLU:HB3	2.48	0.49
1:G:485:TYR:CE1	1:Q:686:MET:CE	2.78	0.49
1:H:270:ASP:OD1	1:H:271:ARG:N	2.46	0.49
1:I:407:MET:HE2	1:K:350:GLN:N	2.22	0.49
1:N:370:PHE:N	1:N:371:PRO:HD2	2.27	0.49
1:O:222:ASN:ND2	1:O:227:LEU:O	2.32	0.49
1:R:458:ARG:HD3	1:T:290:ARG:NH1	2.20	0.49
1:S:468:GLU:HA	1:S:471:THR:HG22	1.95	0.49
1:T:325:LYS:NZ	1:T:715:MET:O	2.46	0.49
1:Y:361:ARG:NH1	1:E2:393:LYS:HG2	2.26	0.49
1:Y:445:LYS:HG3	1:Y:446:LEU:HD22	1.94	0.49
1:I2:696:PHE:CD1	1:I2:700:GLU:HB3	2.48	0.49
1:A2:10:ILE:HG22	1:A2:130:LEU:HD23	1.95	0.49
1:B2:696:PHE:CD1	1:B2:700:GLU:HB3	2.48	0.49
1:A:10:ILE:HG22	1:A:130:LEU:HD23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:222:ASN:ND2	1:B:227:LEU:O	2.32	0.49
1:C:416:GLN:HA	1:C:419:LYS:HZ3	1.78	0.49
1:E:458:ARG:NE	1:G:290:ARG:HH22	2.11	0.49
1:K:325:LYS:NZ	1:K:715:MET:O	2.46	0.49
1:M:408:ALA:O	1:M:412:ILE:HG12	2.13	0.49
1:M:468:GLU:HA	1:M:471:THR:HG22	1.95	0.49
1:O:387:GLU:HG2	1:O:415:LYS:HE2	1.95	0.49
1:O:468:GLU:HA	1:O:471:THR:HG22	1.95	0.49
1:Q:270:ASP:OD1	1:Q:271:ARG:N	2.46	0.49
1:V:10:ILE:HG22	1:V:130:LEU:HD23	1.95	0.49
1:W:408:ALA:O	1:W:412:ILE:HG12	2.13	0.49
1:X:157:ARG:HD3	1:X:161:MET:HE2	1.95	0.49
1:Z:416:GLN:HA	1:Z:419:LYS:HZ3	1.77	0.49
1:H2:714:LEU:O	1:H2:715:MET:HG2	2.12	0.49
1:J2:696:PHE:CD1	1:J2:700:GLU:HB3	2.48	0.49
1:C2:485:TYR:HD1	1:M:686:MET:CE	2.22	0.49
1:B:270:ASP:OD1	1:B:271:ARG:N	2.46	0.49
1:D:270:ASP:OD1	1:D:271:ARG:N	2.46	0.49
1:L:176:PRO:HG2	1:L:179:SER:HB3	1.95	0.49
1:L:325:LYS:NZ	1:L:715:MET:O	2.46	0.49
1:M:365:ILE:O	1:M:369:ARG:CB	2.61	0.49
1:P:446:LEU:O	1:P:446:LEU:HD23	2.11	0.49
1:R:446:LEU:O	1:R:446:LEU:HD23	2.11	0.49
1:S:696:PHE:CD1	1:S:700:GLU:HB3	2.48	0.49
1:U:408:ALA:O	1:U:412:ILE:HG12	2.13	0.49
1:X:67:ARG:NH1	1:X:104:GLU:OE2	2.43	0.49
1:X:411:THR:HG23	1:Z:350:GLN:CD	2.37	0.49
1:J2:714:LEU:O	1:J2:715:MET:HG2	2.12	0.49
1:C2:325:LYS:NZ	1:C2:715:MET:O	2.46	0.49
1:D2:270:ASP:OD1	1:D2:271:ARG:N	2.46	0.49
1:A2:95:GLU:OE1	1:A2:98:ARG:NH2	2.41	0.49
1:B2:714:LEU:O	1:B2:715:MET:HG2	2.12	0.49
1:D:696:PHE:CD1	1:D:700:GLU:HB3	2.48	0.49
1:F:408:ALA:O	1:F:412:ILE:HG12	2.13	0.49
1:I:44:LYS:HZ2	1:I:139:GLY:HA2	1.78	0.49
1:K:157:ARG:HD3	1:K:161:MET:HE2	1.95	0.49
1:M:270:ASP:OD1	1:M:271:ARG:N	2.46	0.49
1:M:361:ARG:NH1	1:O:393:LYS:HG2	2.28	0.49
1:M:387:GLU:HG2	1:M:415:LYS:HE2	1.95	0.49
1:P:157:ARG:HD3	1:P:161:MET:HE2	1.95	0.49
1:P:325:LYS:NZ	1:P:715:MET:O	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:683:LYS:HG2	1:I2:485:TYR:HB3	1.95	0.49
1:Q:387:GLU:HG2	1:Q:415:LYS:HE2	1.95	0.49
1:Q:696:PHE:CD1	1:Q:700:GLU:HB3	2.48	0.49
1:R:263:PRO:HA	1:R:266:ARG:HE	1.76	0.49
1:T:10:ILE:HG22	1:T:130:LEU:HD23	1.95	0.49
1:T:157:ARG:HD3	1:T:161:MET:HE2	1.95	0.49
1:U:365:ILE:O	1:U:369:ARG:CB	2.61	0.49
1:W:365:ILE:O	1:W:369:ARG:CB	2.61	0.49
1:W:468:GLU:HA	1:W:471:THR:HG22	1.95	0.49
1:F2:157:ARG:HD3	1:F2:161:MET:HE2	1.95	0.49
1:G2:408:ALA:O	1:G2:412:ILE:HG12	2.13	0.49
1:G2:445:LYS:HG3	1:G2:446:LEU:HD22	1.94	0.49
1:G2:696:PHE:CD1	1:G2:700:GLU:HB3	2.48	0.49
1:A:325:LYS:NZ	1:A:715:MET:O	2.46	0.48
1:B:696:PHE:CD1	1:B:700:GLU:HB3	2.48	0.48
1:D:408:ALA:O	1:D:412:ILE:HG12	2.13	0.48
1:G:157:ARG:HD3	1:G:161:MET:HE2	1.95	0.48
1:G:723:GLN:OE1	1:I:223:LYS:NZ	2.45	0.48
1:H:387:GLU:HG2	1:H:415:LYS:HE2	1.95	0.48
1:I:176:PRO:HG2	1:I:179:SER:HB3	1.95	0.48
1:J:714:LEU:O	1:J:715:MET:HG2	2.12	0.48
1:Q:445:LYS:HG3	1:Q:446:LEU:HD22	1.94	0.48
1:S:408:ALA:O	1:S:412:ILE:HG12	2.13	0.48
1:U:387:GLU:HG2	1:U:415:LYS:HE2	1.95	0.48
1:V:325:LYS:NZ	1:V:715:MET:O	2.46	0.48
1:X:113:LYS:O	1:X:148:GLN:NE2	2.37	0.48
1:F2:325:LYS:NZ	1:F2:715:MET:O	2.46	0.48
1:I2:270:ASP:OD1	1:I2:271:ARG:N	2.46	0.48
1:I2:365:ILE:O	1:I2:369:ARG:CB	2.61	0.48
1:J2:365:ILE:O	1:J2:369:ARG:CB	2.61	0.48
1:J2:468:GLU:HA	1:J2:471:THR:HG22	1.95	0.48
1:C2:10:ILE:HG22	1:C2:130:LEU:HD23	1.95	0.48
1:D2:365:ILE:O	1:D2:369:ARG:CB	2.61	0.48
1:D2:371:PRO:HB3	1:D2:678:ARG:HD2	1.95	0.48
1:B2:270:ASP:OD1	1:B2:271:ARG:N	2.46	0.48
1:B2:365:ILE:O	1:B2:369:ARG:CB	2.61	0.48
1:A:157:ARG:HD3	1:A:161:MET:HE2	1.95	0.48
1:A:263:PRO:HA	1:A:266:ARG:HE	1.77	0.48
1:B:408:ALA:O	1:B:412:ILE:HG12	2.13	0.48
1:B:468:GLU:HA	1:B:471:THR:HG22	1.95	0.48
1:C:450:PRO:HD3	1:C:718:SER:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:176:PRO:HG2	1:E:179:SER:HB3	1.95	0.48
1:G:95:GLU:OE1	1:G:98:ARG:NH2	2.41	0.48
1:G:176:PRO:HG2	1:G:179:SER:HB3	1.95	0.48
1:G:325:LYS:NZ	1:G:715:MET:O	2.46	0.48
1:H:208:ASP:OD1	1:H:208:ASP:N	2.46	0.48
1:H:696:PHE:CD1	1:H:700:GLU:HB3	2.48	0.48
1:J:468:GLU:HA	1:J:471:THR:HG22	1.95	0.48
1:J:696:PHE:CD1	1:J:700:GLU:HB3	2.48	0.48
1:K:176:PRO:HG2	1:K:179:SER:HB3	1.95	0.48
1:L:157:ARG:HD3	1:L:161:MET:HE2	1.95	0.48
1:N:176:PRO:HG2	1:N:179:SER:HB3	1.95	0.48
1:N:416:GLN:HA	1:N:419:LYS:HZ3	1.77	0.48
1:Q:468:GLU:HA	1:Q:471:THR:HG22	1.95	0.48
1:S:387:GLU:HG2	1:S:415:LYS:HE2	1.95	0.48
1:T:183:ASN:HA	1:U:142:LYS:HZ1	1.77	0.48
1:T:364:ARG:NH1	1:G2:489:ASN:HD21	2.12	0.48
1:T:411:THR:HG23	1:V:350:GLN:CD	2.38	0.48
1:G2:270:ASP:OD1	1:G2:271:ARG:N	2.46	0.48
1:H2:696:PHE:CD1	1:H2:700:GLU:HB3	2.48	0.48
1:C2:176:PRO:HG2	1:C2:179:SER:HB3	1.95	0.48
1:D2:222:ASN:ND2	1:D2:227:LEU:O	2.32	0.48
1:D2:696:PHE:CD1	1:D2:700:GLU:HB3	2.48	0.48
1:A2:290:ARG:NH1	1:A:458:ARG:HD3	2.23	0.48
1:A2:450:PRO:HD3	1:A2:718:SER:HB3	1.96	0.48
1:A:450:PRO:HD3	1:A:718:SER:HB3	1.96	0.48
1:D:714:LEU:O	1:D:715:MET:HG2	2.12	0.48
1:H:371:PRO:HB3	1:H:678:ARG:HD2	1.95	0.48
1:I:458:ARG:HD3	1:K:290:ARG:NH1	2.22	0.48
1:M:696:PHE:CD1	1:M:700:GLU:HB3	2.48	0.48
1:O:696:PHE:CD1	1:O:700:GLU:HB3	2.48	0.48
1:P:176:PRO:HG2	1:P:179:SER:HB3	1.95	0.48
1:R:416:GLN:HA	1:R:419:LYS:HZ3	1.77	0.48
1:S:270:ASP:OD1	1:S:271:ARG:N	2.46	0.48
1:S:365:ILE:O	1:S:369:ARG:CB	2.61	0.48
1:T:263:PRO:HA	1:T:266:ARG:HE	1.76	0.48
1:U:216:ALA:H	1:U:265:TYR:HH	1.61	0.48
1:W:445:LYS:HG3	1:W:446:LEU:HD22	1.94	0.48
1:Y:408:ALA:O	1:Y:412:ILE:HG12	2.13	0.48
1:Z:466:GLU:CD	1:F2:297:ARG:HH22	2.20	0.48
1:Z:723:GLN:OE1	1:F2:223:LYS:NZ	2.46	0.48
1:F2:49:GLU:OE1	1:F2:59:ARG:NH1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H2:365:ILE:O	1:H2:369:ARG:CB	2.61	0.48
1:H2:408:ALA:O	1:H2:412:ILE:HG12	2.13	0.48
1:C2:157:ARG:HD3	1:C2:161:MET:HE2	1.95	0.48
1:C2:411:THR:HG23	1:E:350:GLN:CD	2.39	0.48
1:C2:450:PRO:HD3	1:C2:718:SER:HB3	1.96	0.48
1:A2:176:PRO:HG2	1:A2:179:SER:HB3	1.95	0.48
1:A:49:GLU:OE1	1:A:59:ARG:NH1	2.47	0.48
1:B:365:ILE:O	1:B:369:ARG:CB	2.61	0.48
1:F:365:ILE:O	1:F:369:ARG:CB	2.61	0.48
1:G:49:GLU:OE1	1:G:59:ARG:NH1	2.47	0.48
1:J:270:ASP:OD1	1:J:271:ARG:N	2.46	0.48
1:J:387:GLU:HG2	1:J:415:LYS:HE2	1.95	0.48
1:N:67:ARG:NH1	1:N:104:GLU:OE2	2.43	0.48
1:N:157:ARG:HD3	1:N:161:MET:HE2	1.95	0.48
1:O:365:ILE:O	1:O:369:ARG:CB	2.61	0.48
1:U:270:ASP:OD1	1:U:271:ARG:N	2.46	0.48
1:U:468:GLU:HA	1:U:471:THR:HG22	1.95	0.48
1:V:416:GLN:HA	1:V:419:LYS:HZ3	1.77	0.48
1:W:696:PHE:CD1	1:W:700:GLU:HB3	2.48	0.48
1:X:723:GLN:OE1	1:Z:223:LYS:NZ	2.46	0.48
1:Y:270:ASP:OD1	1:Y:271:ARG:N	2.46	0.48
1:E2:270:ASP:OD1	1:E2:271:ARG:N	2.46	0.48
1:E2:696:PHE:CD1	1:E2:700:GLU:HB3	2.48	0.48
1:F2:329:LEU:HD12	1:F2:715:MET:SD	2.54	0.48
1:F2:450:PRO:HD3	1:F2:718:SER:HB3	1.96	0.48
1:G2:404:THR:HG22	1:G2:658:GLN:HG2	1.96	0.48
1:H2:468:GLU:HA	1:H2:471:THR:HG22	1.95	0.48
1:J2:387:GLU:HG2	1:J2:415:LYS:HE2	1.95	0.48
1:A:176:PRO:HG2	1:A:179:SER:HB3	1.95	0.48
1:A:290:ARG:HH22	1:C:458:ARG:NE	2.12	0.48
1:A:329:LEU:HD12	1:A:715:MET:SD	2.54	0.48
1:B:371:PRO:HB3	1:B:678:ARG:HD2	1.95	0.48
1:B:422:GLU:HB2	1:B:423:PRO:HD3	1.95	0.48
1:F:468:GLU:HA	1:F:471:THR:HG22	1.95	0.48
1:I:67:ARG:NH1	1:I:104:GLU:OE2	2.43	0.48
1:I:157:ARG:HD3	1:I:161:MET:HE2	1.95	0.48
1:J:365:ILE:O	1:J:369:ARG:CB	2.61	0.48
1:M:371:PRO:HB3	1:M:678:ARG:HD2	1.95	0.48
1:M:388:ILE:HG22	1:M:412:ILE:CG1	2.41	0.48
1:N:466:GLU:CD	1:P:297:ARG:HH22	2.17	0.48
1:O:445:LYS:HG3	1:O:446:LEU:HD22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:723:GLN:OE1	1:R:223:LYS:NZ	2.47	0.48
1:R:411:THR:HG23	1:T:350:GLN:CD	2.39	0.48
1:U:714:LEU:O	1:U:715:MET:HG2	2.12	0.48
1:W:270:ASP:OD1	1:W:271:ARG:N	2.46	0.48
1:Y:404:THR:HG22	1:Y:658:GLN:HG2	1.96	0.48
1:Z:325:LYS:NZ	1:Z:715:MET:O	2.46	0.48
1:Z:411:THR:HG23	1:F2:350:GLN:CD	2.39	0.48
1:G2:221:GLU:OE1	1:G2:223:LYS:NZ	2.42	0.48
1:H2:270:ASP:OD1	1:H2:271:ARG:N	2.46	0.48
1:C2:329:LEU:HD12	1:C2:715:MET:SD	2.54	0.48
1:A2:49:GLU:OE1	1:A2:59:ARG:NH1	2.47	0.48
1:A2:329:LEU:HD12	1:A2:715:MET:SD	2.54	0.48
1:B2:404:THR:HG22	1:B2:658:GLN:HG2	1.96	0.48
1:B:321:ASP:OD2	1:B:324:ARG:NE	2.33	0.48
1:B:404:THR:HG22	1:B:658:GLN:HG2	1.96	0.48
1:C:329:LEU:HD12	1:C:715:MET:SD	2.54	0.48
1:E:450:PRO:HD3	1:E:718:SER:HB3	1.96	0.48
1:F:387:GLU:HG2	1:F:415:LYS:HE2	1.95	0.48
1:H:408:ALA:O	1:H:412:ILE:HG12	2.13	0.48
1:I:49:GLU:OE1	1:I:59:ARG:NH1	2.47	0.48
1:I:480:ASP:OD2	1:S:687:HIS:NE2	2.46	0.48
1:J:445:LYS:HG3	1:J:446:LEU:HD22	1.94	0.48
1:J:666:VAL:O	1:J:670:MET:HG2	2.14	0.48
1:N:325:LYS:NZ	1:N:715:MET:O	2.46	0.48
1:P:416:GLN:HA	1:P:419:LYS:HZ3	1.78	0.48
1:P:687:HIS:HB2	1:I2:484:ALA:CB	2.43	0.48
1:R:10:ILE:HG22	1:R:130:LEU:HD23	1.95	0.48
1:R:40:GLN:NE2	1:S:180:ASP:OD2	2.47	0.48
1:R:687:HIS:HB2	1:H2:484:ALA:CB	2.44	0.48
1:S:422:GLU:HB2	1:S:423:PRO:HD3	1.95	0.48
1:T:49:GLU:OE1	1:T:59:ARG:NH1	2.47	0.48
1:X:325:LYS:NZ	1:X:715:MET:O	2.46	0.48
1:X:329:LEU:HD12	1:X:715:MET:SD	2.54	0.48
1:Z:450:PRO:HD3	1:Z:718:SER:HB3	1.95	0.48
1:E2:221:GLU:OE1	1:E2:223:LYS:NZ	2.42	0.48
1:I2:404:THR:HG22	1:I2:658:GLN:HG2	1.96	0.48
1:B2:222:ASN:ND2	1:B2:227:LEU:O	2.32	0.48
1:B2:359:GLY:HA2	1:B2:434:GLU:OE2	2.14	0.48
1:C:176:PRO:HG2	1:C:179:SER:HB3	1.95	0.48
1:E:49:GLU:OE1	1:E:59:ARG:NH1	2.47	0.48
1:I:325:LYS:NZ	1:I:715:MET:O	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:359:GLY:HA2	1:M:434:GLU:OE2	2.14	0.48
1:O:312:GLU:HA	1:O:315:LYS:HE3	1.96	0.48
1:O:408:ALA:O	1:O:412:ILE:HG12	2.13	0.48
1:Q:666:VAL:O	1:Q:670:MET:HG2	2.14	0.48
1:R:49:GLU:OE1	1:R:59:ARG:NH1	2.47	0.48
1:R:176:PRO:HG2	1:R:179:SER:HB3	1.95	0.48
1:R:485:TYR:HB3	1:H2:683:LYS:HG2	1.96	0.48
1:T:40:GLN:NE2	1:U:180:ASP:OD2	2.47	0.48
1:T:458:ARG:NE	1:V:290:ARG:HH22	2.11	0.48
1:T:687:HIS:HB2	1:G2:484:ALA:CB	2.44	0.48
1:Y:365:ILE:O	1:Y:369:ARG:CB	2.61	0.48
1:Y:468:GLU:HA	1:Y:471:THR:HG22	1.95	0.48
1:Z:254:ALA:HA	1:Z:257:LYS:HG2	1.95	0.48
1:E2:468:GLU:HA	1:E2:471:THR:HG22	1.95	0.48
1:C:49:GLU:OE1	1:C:59:ARG:NH1	2.47	0.48
1:E:10:ILE:HG22	1:E:130:LEU:HD23	1.95	0.48
1:E:723:GLN:OE1	1:G:223:LYS:NZ	2.46	0.48
1:F:360:ALA:HB1	1:H:397:GLY:CA	2.44	0.48
1:G:450:PRO:HD3	1:G:718:SER:HB3	1.96	0.48
1:H:221:GLU:OE1	1:H:223:LYS:NZ	2.42	0.48
1:H:666:VAL:O	1:H:670:MET:HG2	2.14	0.48
1:K:49:GLU:OE1	1:K:59:ARG:NH1	2.47	0.48
1:L:49:GLU:OE1	1:L:59:ARG:NH1	2.47	0.48
1:L:450:PRO:HD3	1:L:718:SER:HB3	1.96	0.48
1:N:49:GLU:OE1	1:N:59:ARG:NH1	2.47	0.48
1:O:388:ILE:HG22	1:O:412:ILE:CG1	2.41	0.48
1:O:422:GLU:HB2	1:O:423:PRO:HD3	1.95	0.48
1:O:666:VAL:O	1:O:670:MET:HG2	2.14	0.48
1:P:49:GLU:OE1	1:P:59:ARG:NH1	2.47	0.48
1:P:95:GLU:OE1	1:P:98:ARG:NH2	2.41	0.48
1:Q:365:ILE:O	1:Q:369:ARG:CB	2.61	0.48
1:V:49:GLU:OE1	1:V:59:ARG:NH1	2.47	0.48
1:V:329:LEU:HD12	1:V:715:MET:SD	2.54	0.48
1:W:387:GLU:HG2	1:W:415:LYS:HE2	1.95	0.48
1:Z:49:GLU:OE1	1:Z:59:ARG:NH1	2.47	0.48
1:Z:329:LEU:HD12	1:Z:715:MET:SD	2.54	0.48
1:F2:176:PRO:HG2	1:F2:179:SER:HB3	1.95	0.48
1:G2:468:GLU:HA	1:G2:471:THR:HG22	1.95	0.48
1:I2:388:ILE:HG22	1:I2:412:ILE:CG1	2.41	0.48
1:J2:359:GLY:HA2	1:J2:434:GLU:OE2	2.14	0.48
1:D2:404:THR:HG22	1:D2:658:GLN:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B2:371:PRO:HB3	1:B2:678:ARG:HD2	1.95	0.48
1:B2:468:GLU:HA	1:B2:471:THR:HG22	1.95	0.48
1:D:468:GLU:HA	1:D:471:THR:HG22	1.95	0.48
1:F:404:THR:HG22	1:F:658:GLN:HG2	1.96	0.48
1:G:329:LEU:HD12	1:G:715:MET:SD	2.54	0.48
1:H:312:GLU:HA	1:H:315:LYS:HE3	1.96	0.48
1:I:411:THR:HG23	1:K:350:GLN:CD	2.39	0.48
1:L:10:ILE:HG22	1:L:130:LEU:HD23	1.95	0.48
1:M:312:GLU:HA	1:M:315:LYS:HE3	1.96	0.48
1:M:666:VAL:O	1:M:670:MET:HG2	2.14	0.48
1:P:40:GLN:NE2	1:Q:180:ASP:OD2	2.47	0.48
1:Q:408:ALA:O	1:Q:412:ILE:HG12	2.13	0.48
1:S:666:VAL:O	1:S:670:MET:HG2	2.14	0.48
1:V:723:GLN:OE1	1:X:223:LYS:NZ	2.47	0.48
1:X:450:PRO:HD3	1:X:718:SER:HB3	1.95	0.48
1:Y:387:GLU:HG2	1:Y:415:LYS:HE2	1.95	0.48
1:Z:157:ARG:HD3	1:Z:161:MET:HE2	1.95	0.48
1:I2:387:GLU:HG2	1:I2:415:LYS:HE2	1.95	0.48
1:I2:408:ALA:O	1:I2:412:ILE:HG12	2.13	0.48
1:I2:468:GLU:HA	1:I2:471:THR:HG22	1.95	0.48
1:J2:221:GLU:OE1	1:J2:223:LYS:NZ	2.42	0.48
1:J2:270:ASP:OD1	1:J2:271:ARG:N	2.46	0.48
1:J2:312:GLU:HA	1:J2:315:LYS:HE3	1.96	0.48
1:D2:359:GLY:HA2	1:D2:434:GLU:OE2	2.14	0.48
1:D2:422:GLU:HB2	1:D2:423:PRO:HD3	1.95	0.48
1:A2:325:LYS:NZ	1:A2:715:MET:O	2.46	0.48
1:A2:471:THR:HA	1:A2:688:LEU:HD13	1.96	0.48
1:B:359:GLY:HA2	1:B:434:GLU:OE2	2.14	0.48
1:D:451:ARG:HB2	1:G2:228:ARG:HH21	1.79	0.48
1:H:137:LEU:HD13	1:H:160:LEU:HB2	1.96	0.48
1:H:365:ILE:O	1:H:369:ARG:CB	2.61	0.48
1:I:723:GLN:OE1	1:K:223:LYS:NZ	2.46	0.48
1:O:359:GLY:HA2	1:O:434:GLU:OE2	2.14	0.48
1:P:254:ALA:HA	1:P:257:LYS:HG2	1.95	0.48
1:R:157:ARG:HD3	1:R:161:MET:HE2	1.95	0.48
1:T:329:LEU:HD12	1:T:715:MET:SD	2.54	0.48
1:U:388:ILE:HG22	1:U:412:ILE:CG1	2.41	0.48
1:V:40:GLN:NE2	1:W:180:ASP:OD2	2.47	0.48
1:Y:388:ILE:HG22	1:Y:412:ILE:CG1	2.41	0.48
1:Z:176:PRO:HG2	1:Z:179:SER:HB3	1.95	0.48
1:E2:408:ALA:O	1:E2:412:ILE:HG12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H2:222:ASN:ND2	1:H2:227:LEU:O	2.32	0.48
1:J2:137:LEU:HD13	1:J2:160:LEU:HB2	1.96	0.48
1:B2:727:GLU:HA	1:B2:730:ARG:HG3	1.96	0.47
1:A:95:GLU:OE1	1:A:98:ARG:NH2	2.41	0.47
1:D:137:LEU:HD13	1:D:160:LEU:HB2	1.96	0.47
1:D:365:ILE:O	1:D:369:ARG:CB	2.61	0.47
1:E:157:ARG:HD3	1:E:161:MET:HE2	1.95	0.47
1:G:10:ILE:HG22	1:G:130:LEU:HD23	1.95	0.47
1:I:10:ILE:HG22	1:I:130:LEU:HD23	1.95	0.47
1:J:137:LEU:HD13	1:J:160:LEU:HB2	1.96	0.47
1:J:312:GLU:HA	1:J:315:LYS:HE3	1.96	0.47
1:N:10:ILE:HG22	1:N:130:LEU:HD23	1.95	0.47
1:N:254:ALA:HA	1:N:257:LYS:HG2	1.95	0.47
1:N:723:GLN:OE1	1:P:223:LYS:NZ	2.47	0.47
1:O:18:ASP:OD1	1:O:75:ASN:ND2	2.38	0.47
1:O:727:GLU:HA	1:O:730:ARG:HG3	1.96	0.47
1:Q:422:GLU:HB2	1:Q:423:PRO:HD3	1.95	0.47
1:T:176:PRO:HG2	1:T:179:SER:HB3	1.95	0.47
1:X:254:ALA:HA	1:X:257:LYS:HG2	1.95	0.47
1:E2:137:LEU:HD13	1:E2:160:LEU:HB2	1.96	0.47
1:F2:44:LYS:HZ2	1:F2:139:GLY:HA2	1.79	0.47
1:F2:254:ALA:HA	1:F2:257:LYS:HG2	1.95	0.47
1:G2:137:LEU:HD13	1:G2:160:LEU:HB2	1.96	0.47
1:G2:422:GLU:HB2	1:G2:423:PRO:HD3	1.95	0.47
1:H2:387:GLU:HG2	1:H2:415:LYS:HE2	1.95	0.47
1:I2:666:VAL:O	1:I2:670:MET:HG2	2.14	0.47
1:C2:254:ALA:HA	1:C2:257:LYS:HG2	1.95	0.47
1:D2:137:LEU:HD13	1:D2:160:LEU:HB2	1.96	0.47
1:A:471:THR:HA	1:A:688:LEU:HD13	1.96	0.47
1:B:686:MET:CE	1:X:485:TYR:CE1	2.84	0.47
1:B:727:GLU:HA	1:B:730:ARG:HG3	1.96	0.47
1:C:157:ARG:HD3	1:C:161:MET:HE2	1.95	0.47
1:D:404:THR:HG22	1:D:658:GLN:HG2	1.96	0.47
1:E:254:ALA:HA	1:E:257:LYS:HG2	1.95	0.47
1:F:137:LEU:HD13	1:F:160:LEU:HB2	1.96	0.47
1:F:666:VAL:O	1:F:670:MET:HG2	2.14	0.47
1:F:727:GLU:HA	1:F:730:ARG:HG3	1.96	0.47
1:G:254:ALA:HA	1:G:257:LYS:HG2	1.95	0.47
1:I:450:PRO:HD3	1:I:718:SER:HB3	1.96	0.47
1:J:408:ALA:O	1:J:412:ILE:HG12	2.13	0.47
1:K:10:ILE:HG22	1:K:130:LEU:HD23	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:137:LEU:HD13	1:M:160:LEU:HB2	1.96	0.47
1:N:450:PRO:HD3	1:N:718:SER:HB3	1.96	0.47
1:P:10:ILE:HG22	1:P:130:LEU:HD23	1.95	0.47
1:P:471:THR:HA	1:P:688:LEU:HD13	1.96	0.47
1:Q:312:GLU:HA	1:Q:315:LYS:HE3	1.96	0.47
1:Q:371:PRO:HB3	1:Q:678:ARG:HD2	1.95	0.47
1:R:95:GLU:OE1	1:R:98:ARG:NH2	2.41	0.47
1:S:312:GLU:HA	1:S:315:LYS:HE3	1.96	0.47
1:S:727:GLU:HA	1:S:730:ARG:HG3	1.96	0.47
1:U:359:GLY:HA2	1:U:434:GLU:OE2	2.14	0.47
1:U:404:THR:HG22	1:U:658:GLN:HG2	1.96	0.47
1:U:422:GLU:HB2	1:U:423:PRO:HD3	1.96	0.47
1:U:727:GLU:HA	1:U:730:ARG:HG3	1.96	0.47
1:V:450:PRO:HD3	1:V:718:SER:HB3	1.96	0.47
1:Z:471:THR:HA	1:Z:688:LEU:HD13	1.96	0.47
1:E2:365:ILE:O	1:E2:369:ARG:CB	2.61	0.47
1:F2:471:THR:HA	1:F2:688:LEU:HD13	1.97	0.47
1:G2:371:PRO:HB3	1:G2:678:ARG:HD2	1.95	0.47
1:I2:727:GLU:HA	1:I2:730:ARG:HG3	1.96	0.47
1:J2:404:THR:HG22	1:J2:658:GLN:HG2	1.96	0.47
1:C2:471:THR:HA	1:C2:688:LEU:HD13	1.96	0.47
1:D2:387:GLU:HG2	1:D2:415:LYS:HE2	1.95	0.47
1:A2:254:ALA:HA	1:A2:257:LYS:HG2	1.95	0.47
1:A2:350:GLN:CD	1:A:411:THR:HG23	2.39	0.47
1:B:137:LEU:HD13	1:B:160:LEU:HB2	1.96	0.47
1:D:371:PRO:HB3	1:D:678:ARG:HD2	1.95	0.47
1:E:314:TYR:HE2	1:E:317:PHE:HB2	1.80	0.47
1:E:329:LEU:HD12	1:E:715:MET:SD	2.54	0.47
1:H:727:GLU:HA	1:H:730:ARG:HG3	1.96	0.47
1:I:40:GLN:NE2	1:J:180:ASP:OD2	2.47	0.47
1:K:329:LEU:HD12	1:K:715:MET:SD	2.54	0.47
1:M:422:GLU:HB2	1:M:423:PRO:HD3	1.95	0.47
1:N:43:GLY:O	1:N:47:VAL:HG23	2.15	0.47
1:P:329:LEU:HD12	1:P:715:MET:SD	2.54	0.47
1:T:43:GLY:O	1:T:47:VAL:HG23	2.15	0.47
1:U:666:VAL:O	1:U:670:MET:HG2	2.14	0.47
1:V:176:PRO:HG2	1:V:179:SER:HB3	1.95	0.47
1:W:422:GLU:HB2	1:W:423:PRO:HD3	1.95	0.47
1:X:176:PRO:HG2	1:X:179:SER:HB3	1.95	0.47
1:Y:727:GLU:HA	1:Y:730:ARG:HG3	1.96	0.47
1:E2:387:GLU:HG2	1:E2:415:LYS:HE2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G2:365:ILE:O	1:G2:369:ARG:CB	2.61	0.47
1:G2:727:GLU:HA	1:G2:730:ARG:HG3	1.96	0.47
1:H2:137:LEU:HD13	1:H2:160:LEU:HB2	1.96	0.47
1:C2:351:ILE:HD12	1:A2:395:ILE:HG22	1.95	0.47
1:D2:312:GLU:HA	1:D2:315:LYS:HE3	1.96	0.47
1:A2:683:LYS:HG2	1:J2:485:TYR:HB3	1.96	0.47
1:B2:137:LEU:HD13	1:B2:160:LEU:HB2	1.96	0.47
1:B2:387:GLU:HG2	1:B2:415:LYS:HE2	1.95	0.47
1:F:371:PRO:HB3	1:F:678:ARG:HD2	1.95	0.47
1:F:422:GLU:HB2	1:F:423:PRO:HD3	1.95	0.47
1:G:40:GLN:NE2	1:H:180:ASP:OD2	2.47	0.47
1:H:404:THR:HG22	1:H:658:GLN:HG2	1.96	0.47
1:I:329:LEU:HD12	1:I:715:MET:SD	2.54	0.47
1:J:359:GLY:HA2	1:J:434:GLU:OE2	2.14	0.47
1:J:422:GLU:HB2	1:J:423:PRO:HD3	1.95	0.47
1:L:329:LEU:HD12	1:L:715:MET:SD	2.54	0.47
1:M:727:GLU:HA	1:M:730:ARG:HG3	1.96	0.47
1:N:471:THR:HA	1:N:688:LEU:HD13	1.96	0.47
1:P:450:PRO:HD3	1:P:718:SER:HB3	1.96	0.47
1:R:254:ALA:HA	1:R:257:LYS:HG2	1.95	0.47
1:T:314:TYR:HE2	1:T:317:PHE:HB2	1.80	0.47
1:T:407:MET:HE2	1:V:350:GLN:N	2.19	0.47
1:U:222:ASN:ND2	1:U:227:LEU:O	2.32	0.47
1:V:458:ARG:NE	1:X:290:ARG:HH22	2.12	0.47
1:Y:359:GLY:HA2	1:Y:434:GLU:OE2	2.14	0.47
1:F2:67:ARG:NH1	1:F2:104:GLU:OE2	2.43	0.47
1:F2:113:LYS:O	1:F2:148:GLN:NE2	2.37	0.47
1:I2:137:LEU:HD13	1:I2:160:LEU:HB2	1.96	0.47
1:A2:490:HIS:CD2	1:A2:491:GLU:H	2.33	0.47
1:B2:422:GLU:HB2	1:B2:423:PRO:HD3	1.96	0.47
1:A:254:ALA:HA	1:A:257:LYS:HG2	1.95	0.47
1:A:490:HIS:CD2	1:A:491:GLU:H	2.33	0.47
1:B:18:ASP:OD1	1:B:75:ASN:ND2	2.38	0.47
1:D:387:GLU:HG2	1:D:415:LYS:HE2	1.95	0.47
1:F:312:GLU:HA	1:F:315:LYS:HE3	1.96	0.47
1:H:359:GLY:HA2	1:H:434:GLU:OE2	2.14	0.47
1:K:450:PRO:HD3	1:K:718:SER:HB3	1.96	0.47
1:K:471:THR:HA	1:K:688:LEU:HD13	1.96	0.47
1:T:450:PRO:HD3	1:T:718:SER:HB3	1.96	0.47
1:V:157:ARG:HD3	1:V:161:MET:HE2	1.95	0.47
1:Y:137:LEU:HD13	1:Y:160:LEU:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:398:ILE:HD12	1:F2:344:ILE:HG23	1.96	0.47
1:E2:359:GLY:HA2	1:E2:434:GLU:OE2	2.14	0.47
1:H2:404:THR:HG22	1:H2:658:GLN:HG2	1.96	0.47
1:J2:666:VAL:O	1:J2:670:MET:HG2	2.14	0.47
1:J2:727:GLU:HA	1:J2:730:ARG:HG3	1.96	0.47
1:D2:727:GLU:HA	1:D2:730:ARG:HG3	1.97	0.47
1:A2:314:TYR:HE2	1:A2:317:PHE:HB2	1.80	0.47
1:B2:330:LEU:HB3	1:F2:702:LEU:HD21	1.97	0.47
1:D:666:VAL:O	1:D:670:MET:HG2	2.14	0.47
1:D:727:GLU:HA	1:D:730:ARG:HG3	1.96	0.47
1:F:359:GLY:HA2	1:F:434:GLU:OE2	2.14	0.47
1:I:254:ALA:HA	1:I:257:LYS:HG2	1.95	0.47
1:I:458:ARG:NE	1:K:290:ARG:HH22	2.12	0.47
1:I:471:THR:HA	1:I:688:LEU:HD13	1.96	0.47
1:J:404:THR:HG22	1:J:658:GLN:HG2	1.96	0.47
1:K:43:GLY:O	1:K:47:VAL:HG23	2.15	0.47
1:O:137:LEU:HD13	1:O:160:LEU:HB2	1.96	0.47
1:Q:404:THR:HG22	1:Q:658:GLN:HG2	1.96	0.47
1:Q:727:GLU:HA	1:Q:730:ARG:HG3	1.97	0.47
1:R:395:ILE:HG22	1:T:351:ILE:HD12	1.97	0.47
1:V:254:ALA:HA	1:V:257:LYS:HG2	1.95	0.47
1:V:490:HIS:CD2	1:V:491:GLU:H	2.33	0.47
1:W:137:LEU:HD13	1:W:160:LEU:HB2	1.96	0.47
1:W:359:GLY:HA2	1:W:434:GLU:OE2	2.14	0.47
1:W:727:GLU:HA	1:W:730:ARG:HG3	1.96	0.47
1:X:49:GLU:OE1	1:X:59:ARG:NH1	2.47	0.47
1:X:471:THR:HA	1:X:688:LEU:HD13	1.96	0.47
1:Z:490:HIS:CD2	1:Z:491:GLU:H	2.33	0.47
1:F2:490:HIS:CD2	1:F2:491:GLU:H	2.33	0.47
1:H2:359:GLY:HA2	1:H2:434:GLU:OE2	2.14	0.47
1:C2:44:LYS:NZ	1:C2:139:GLY:HA2	2.30	0.47
1:C2:49:GLU:OE1	1:C2:59:ARG:NH1	2.47	0.47
1:C2:297:ARG:HH22	1:A2:466:GLU:CD	2.20	0.47
1:D2:666:VAL:O	1:D2:670:MET:HG2	2.14	0.47
1:A:44:LYS:NZ	1:A:139:GLY:HA2	2.30	0.47
1:A:67:ARG:NH1	1:A:104:GLU:OE2	2.43	0.47
1:B:221:GLU:OE1	1:B:223:LYS:NZ	2.42	0.47
1:B:666:VAL:O	1:B:670:MET:HG2	2.14	0.47
1:C:471:THR:HA	1:C:688:LEU:HD13	1.96	0.47
1:D:359:GLY:HA2	1:D:434:GLU:OE2	2.14	0.47
1:E:490:HIS:CD2	1:E:491:GLU:H	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:44:LYS:NZ	1:G:139:GLY:HA2	2.30	0.47
1:I:223:LYS:HB2	1:I:223:LYS:HE3	1.72	0.47
1:I:314:TYR:HE2	1:I:317:PHE:HB2	1.80	0.47
1:J:727:GLU:HA	1:J:730:ARG:HG3	1.96	0.47
1:K:480:ASP:OD2	1:U:687:HIS:NE2	2.48	0.47
1:M:404:THR:HG22	1:M:658:GLN:HG2	1.96	0.47
1:P:485:TYR:HB3	1:I2:683:LYS:HG2	1.97	0.47
1:Q:137:LEU:HD13	1:Q:160:LEU:HB2	1.96	0.47
1:Q:359:GLY:HA2	1:Q:434:GLU:OE2	2.14	0.47
1:R:450:PRO:HD3	1:R:718:SER:HB3	1.96	0.47
1:R:471:THR:HA	1:R:688:LEU:HD13	1.96	0.47
1:R:490:HIS:CD2	1:R:491:GLU:H	2.33	0.47
1:S:359:GLY:HA2	1:S:434:GLU:OE2	2.14	0.47
1:S:371:PRO:HB3	1:S:678:ARG:HD2	1.95	0.47
1:T:395:ILE:HG22	1:V:351:ILE:HD12	1.97	0.47
1:T:490:HIS:CD2	1:T:491:GLU:H	2.33	0.47
1:U:137:LEU:HD13	1:U:160:LEU:HB2	1.96	0.47
1:U:371:PRO:HB3	1:U:678:ARG:HD2	1.95	0.47
1:V:43:GLY:O	1:V:47:VAL:HG23	2.15	0.47
1:V:67:ARG:NH1	1:V:104:GLU:OE2	2.43	0.47
1:V:395:ILE:HG22	1:X:351:ILE:HD12	1.97	0.47
1:X:40:GLN:NE2	1:Y:180:ASP:OD2	2.47	0.47
1:X:490:HIS:CD2	1:X:491:GLU:H	2.33	0.47
1:Y:371:PRO:HB3	1:Y:678:ARG:HD2	1.95	0.47
1:Y:422:GLU:HB2	1:Y:423:PRO:HD3	1.95	0.47
1:Z:43:GLY:O	1:Z:47:VAL:HG23	2.15	0.47
1:Z:44:LYS:NZ	1:Z:139:GLY:HA2	2.30	0.47
1:Z:314:TYR:HE2	1:Z:317:PHE:HB2	1.80	0.47
1:Z:395:ILE:HG22	1:F2:351:ILE:HD12	1.96	0.47
1:E2:371:PRO:HB3	1:E2:678:ARG:HD2	1.95	0.47
1:E2:404:THR:HG22	1:E2:658:GLN:HG2	1.96	0.47
1:E2:727:GLU:HA	1:E2:730:ARG:HG3	1.97	0.47
1:G2:222:ASN:ND2	1:G2:227:LEU:O	2.32	0.47
1:G2:359:GLY:HA2	1:G2:434:GLU:OE2	2.14	0.47
1:H2:666:VAL:O	1:H2:670:MET:HG2	2.14	0.47
1:H2:727:GLU:HA	1:H2:730:ARG:HG3	1.96	0.47
1:J2:371:PRO:HB3	1:J2:678:ARG:HD2	1.95	0.47
1:C2:458:ARG:NE	1:E:290:ARG:HH22	2.12	0.47
1:B:387:GLU:HG2	1:B:415:LYS:HE2	1.95	0.47
1:C:254:ALA:HA	1:C:257:LYS:HG2	1.95	0.47
1:C:314:TYR:HE2	1:C:317:PHE:HB2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:312:GLU:HA	1:D:315:LYS:HE3	1.96	0.47
1:G:43:GLY:O	1:G:47:VAL:HG23	2.15	0.47
1:P:364:ARG:HH12	1:I2:489:ASN:HD21	1.62	0.47
1:P:388:ILE:HG12	1:P:412:ILE:HG13	1.97	0.47
1:S:137:LEU:HD13	1:S:160:LEU:HB2	1.96	0.47
1:T:254:ALA:HA	1:T:257:LYS:HG2	1.95	0.47
1:U:312:GLU:HA	1:U:315:LYS:HE3	1.96	0.47
1:V:471:THR:HA	1:V:688:LEU:HD13	1.96	0.47
1:G2:335:GLN:HA	1:G2:338:VAL:HG12	1.97	0.47
1:G2:387:GLU:HG2	1:G2:415:LYS:HE2	1.95	0.47
1:H2:335:GLN:HA	1:H2:338:VAL:HG12	1.97	0.47
1:I2:371:PRO:HB3	1:I2:678:ARG:HD2	1.95	0.47
1:I2:422:GLU:HB2	1:I2:423:PRO:HD3	1.96	0.47
1:C2:40:GLN:NE2	1:D2:180:ASP:OD2	2.47	0.47
1:C2:344:ILE:HG23	1:A2:398:ILE:HD12	1.97	0.47
1:A2:40:GLN:NE2	1:B2:180:ASP:OD2	2.47	0.47
1:A2:157:ARG:HD3	1:A2:161:MET:HE2	1.95	0.47
1:B2:167:GLU:HG3	1:B2:168:ASN:N	2.30	0.47
1:A:44:LYS:HZ2	1:A:139:GLY:HA2	1.80	0.47
1:B:167:GLU:HG3	1:B:168:ASN:N	2.30	0.47
1:D:167:GLU:HG3	1:D:168:ASN:N	2.30	0.47
1:E:40:GLN:NE2	1:F:180:ASP:OD2	2.47	0.47
1:I:388:ILE:HG12	1:I:412:ILE:HG13	1.97	0.47
1:J:335:GLN:HA	1:J:338:VAL:HG12	1.97	0.47
1:L:254:ALA:HA	1:L:257:LYS:HG2	1.95	0.47
1:L:490:HIS:CD2	1:L:491:GLU:H	2.33	0.47
1:N:329:LEU:HD12	1:N:715:MET:SD	2.54	0.47
1:O:335:GLN:HA	1:O:338:VAL:HG12	1.97	0.47
1:P:43:GLY:O	1:P:47:VAL:HG23	2.15	0.47
1:T:44:LYS:NZ	1:T:139:GLY:HA2	2.30	0.47
1:T:95:GLU:OE1	1:T:98:ARG:NH2	2.41	0.47
1:W:187:LEU:HD13	1:W:225:LEU:HD23	1.97	0.47
1:W:404:THR:HG22	1:W:658:GLN:HG2	1.96	0.47
1:W:666:VAL:O	1:W:670:MET:HG2	2.14	0.47
1:X:314:TYR:HE2	1:X:317:PHE:HB2	1.80	0.47
1:E2:285:LEU:O	1:E2:289:ILE:HG23	2.15	0.47
1:J2:208:ASP:OD1	1:J2:208:ASP:N	2.46	0.47
1:J2:335:GLN:HA	1:J2:338:VAL:HG12	1.97	0.47
1:A2:485:TYR:HB3	1:J2:683:LYS:HG2	1.97	0.47
1:B2:312:GLU:HA	1:B2:315:LYS:HE3	1.96	0.47
1:B2:666:VAL:O	1:B2:670:MET:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:396:HIS:HB2	1:G2:361:ARG:NH2	2.31	0.47
1:E:395:ILE:HG22	1:G:351:ILE:HD12	1.96	0.47
1:E:398:ILE:HD12	1:G:344:ILE:HG23	1.97	0.47
1:H:388:ILE:HG22	1:H:412:ILE:CG1	2.41	0.47
1:J:371:PRO:HB3	1:J:678:ARG:HD2	1.95	0.47
1:K:308:GLU:O	1:K:312:GLU:HG3	2.16	0.47
1:K:490:HIS:CD2	1:K:491:GLU:H	2.33	0.47
1:L:388:ILE:HG12	1:L:412:ILE:HG13	1.97	0.47
1:N:44:LYS:NZ	1:N:139:GLY:HA2	2.30	0.47
1:N:314:TYR:HE2	1:N:317:PHE:HB2	1.80	0.47
1:O:404:THR:HG22	1:O:658:GLN:HG2	1.96	0.47
1:P:314:TYR:HE2	1:P:317:PHE:HB2	1.80	0.47
1:P:490:HIS:CD2	1:P:491:GLU:H	2.33	0.47
1:R:686:MET:HE3	1:H2:485:TYR:HB2	1.97	0.47
1:V:44:LYS:NZ	1:V:139:GLY:HA2	2.30	0.47
1:W:371:PRO:HB3	1:W:678:ARG:HD2	1.95	0.47
1:Y:221:GLU:OE1	1:Y:223:LYS:NZ	2.42	0.47
1:G2:167:GLU:HG3	1:G2:168:ASN:N	2.30	0.47
1:G2:312:GLU:HA	1:G2:315:LYS:HE3	1.96	0.47
1:G2:666:VAL:O	1:G2:670:MET:HG2	2.14	0.47
1:H2:371:PRO:HB3	1:H2:678:ARG:HD2	1.95	0.47
1:I2:187:LEU:HD13	1:I2:225:LEU:HD23	1.97	0.47
1:J2:422:GLU:HB2	1:J2:423:PRO:HD3	1.96	0.47
1:D2:167:GLU:HG3	1:D2:168:ASN:N	2.30	0.46
1:D2:221:GLU:OE1	1:D2:223:LYS:NZ	2.42	0.46
1:A2:290:ARG:HH22	1:A:458:ARG:NE	2.12	0.46
1:D:335:GLN:HA	1:D:338:VAL:HG12	1.97	0.46
1:D:396:HIS:HB2	1:G2:361:ARG:HH21	1.80	0.46
1:D:687:HIS:CE1	1:V:480:ASP:OD2	2.69	0.46
1:E:388:ILE:HG12	1:E:412:ILE:HG13	1.97	0.46
1:E:471:THR:HA	1:E:688:LEU:HD13	1.96	0.46
1:K:254:ALA:HA	1:K:257:LYS:HG2	1.95	0.46
1:K:388:ILE:HG12	1:K:412:ILE:HG13	1.97	0.46
1:L:43:GLY:O	1:L:47:VAL:HG23	2.15	0.46
1:L:458:ARG:HD3	1:N:290:ARG:NH1	2.25	0.46
1:M:335:GLN:HA	1:M:338:VAL:HG12	1.97	0.46
1:N:388:ILE:HG12	1:N:412:ILE:HG13	1.97	0.46
1:O:208:ASP:OD1	1:O:208:ASP:N	2.46	0.46
1:P:44:LYS:NZ	1:P:139:GLY:HA2	2.30	0.46
1:R:364:ARG:HH12	1:H2:489:ASN:HD21	1.62	0.46
1:V:466:GLU:CD	1:X:297:ARG:HH22	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:312:GLU:HA	1:W:315:LYS:HE3	1.96	0.46
1:W:360:ALA:HB1	1:Y:397:GLY:CA	2.45	0.46
1:Z:113:LYS:O	1:Z:148:GLN:NE2	2.37	0.46
1:E2:187:LEU:HD13	1:E2:225:LEU:HD23	1.97	0.46
1:E2:335:GLN:HA	1:E2:338:VAL:HG12	1.97	0.46
1:G2:187:LEU:HD13	1:G2:225:LEU:HD23	1.97	0.46
1:G2:388:ILE:HG22	1:G2:412:ILE:CG1	2.41	0.46
1:H2:187:LEU:HD13	1:H2:225:LEU:HD23	1.97	0.46
1:H2:422:GLU:HB2	1:H2:423:PRO:HD3	1.96	0.46
1:I2:359:GLY:HA2	1:I2:434:GLU:OE2	2.14	0.46
1:A:40:GLN:NE2	1:B:180:ASP:OD2	2.47	0.46
1:A:79:GLU:OE2	1:A:128:HIS:NE2	2.49	0.46
1:C:95:GLU:OE1	1:C:98:ARG:NH2	2.41	0.46
1:C:223:LYS:HE3	1:C:223:LYS:HB2	1.72	0.46
1:D:285:LEU:O	1:D:289:ILE:HG23	2.15	0.46
1:D:422:GLU:HB2	1:D:423:PRO:HD3	1.95	0.46
1:F:208:ASP:OD1	1:F:208:ASP:N	2.46	0.46
1:F:388:ILE:HG22	1:F:412:ILE:CG1	2.41	0.46
1:H:335:GLN:HA	1:H:338:VAL:HG12	1.97	0.46
1:H:422:GLU:HB2	1:H:423:PRO:HD3	1.96	0.46
1:Q:335:GLN:HA	1:Q:338:VAL:HG12	1.97	0.46
1:R:43:GLY:O	1:R:47:VAL:HG23	2.15	0.46
1:R:485:TYR:HD1	1:H2:686:MET:HE3	1.77	0.46
1:S:404:THR:HG22	1:S:658:GLN:HG2	1.96	0.46
1:T:686:MET:HE3	1:G2:485:TYR:HB2	1.97	0.46
1:V:308:GLU:O	1:V:312:GLU:HG3	2.16	0.46
1:C2:490:HIS:CD2	1:C2:491:GLU:H	2.33	0.46
1:C:44:LYS:HZ2	1:C:139:GLY:HA2	1.81	0.46
1:D:187:LEU:HD13	1:D:225:LEU:HD23	1.97	0.46
1:E:489:ASN:HD22	1:O:368:GLU:HG2	1.80	0.46
1:G:471:THR:HA	1:G:688:LEU:HD13	1.96	0.46
1:I:44:LYS:NZ	1:I:139:GLY:HA2	2.30	0.46
1:I:308:GLU:O	1:I:312:GLU:HG3	2.16	0.46
1:K:44:LYS:NZ	1:K:139:GLY:HA2	2.30	0.46
1:L:67:ARG:NH1	1:L:104:GLU:OE2	2.43	0.46
1:O:371:PRO:HB3	1:O:678:ARG:HD2	1.95	0.46
1:S:187:LEU:HD13	1:S:225:LEU:HD23	1.97	0.46
1:S:208:ASP:OD1	1:S:208:ASP:N	2.46	0.46
1:S:335:GLN:HA	1:S:338:VAL:HG12	1.97	0.46
1:T:308:GLU:O	1:T:312:GLU:HG3	2.16	0.46
1:T:388:ILE:HG12	1:T:412:ILE:HG13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:314:TYR:HE2	1:V:317:PHE:HB2	1.80	0.46
1:Y:187:LEU:HD13	1:Y:225:LEU:HD23	1.97	0.46
1:E2:666:VAL:O	1:E2:670:MET:HG2	2.14	0.46
1:F2:95:GLU:OE1	1:F2:98:ARG:NH2	2.41	0.46
1:G2:285:LEU:O	1:G2:289:ILE:HG23	2.15	0.46
1:H2:221:GLU:OE1	1:H2:223:LYS:NZ	2.42	0.46
1:H2:312:GLU:HA	1:H2:315:LYS:HE3	1.96	0.46
1:I2:312:GLU:HA	1:I2:315:LYS:HE3	1.96	0.46
1:J2:167:GLU:HG3	1:J2:168:ASN:N	2.30	0.46
1:B:312:GLU:HA	1:B:315:LYS:HE3	1.96	0.46
1:G:10:ILE:HG13	1:G:11:PRO:HD3	1.98	0.46
1:G:458:ARG:NE	1:I:290:ARG:HH22	2.13	0.46
1:I:10:ILE:HG13	1:I:11:PRO:HD3	1.98	0.46
1:J:208:ASP:OD1	1:J:208:ASP:N	2.46	0.46
1:K:79:GLU:OE2	1:K:128:HIS:NE2	2.49	0.46
1:L:314:TYR:HE2	1:L:317:PHE:HB2	1.80	0.46
1:M:221:GLU:OE1	1:M:223:LYS:NZ	2.42	0.46
1:P:458:ARG:NE	1:R:290:ARG:HH22	2.14	0.46
1:R:329:LEU:HD12	1:R:715:MET:SD	2.54	0.46
1:T:471:THR:HA	1:T:688:LEU:HD13	1.96	0.46
1:U:285:LEU:O	1:U:289:ILE:HG23	2.15	0.46
1:X:308:GLU:O	1:X:312:GLU:HG3	2.16	0.46
1:Y:666:VAL:O	1:Y:670:MET:HG2	2.14	0.46
1:A2:10:ILE:HG13	1:A2:11:PRO:HD3	1.98	0.46
1:B2:208:ASP:OD1	1:B2:208:ASP:N	2.46	0.46
1:A:43:GLY:O	1:A:47:VAL:HG23	2.15	0.46
1:A:67:ARG:NH2	1:A:118:VAL:HG23	2.31	0.46
1:C:67:ARG:NH2	1:C:118:VAL:HG23	2.31	0.46
1:E:43:GLY:O	1:E:47:VAL:HG23	2.15	0.46
1:E:480:ASP:OD2	1:O:687:HIS:NE2	2.49	0.46
1:G:67:ARG:NH1	1:G:104:GLU:OE2	2.43	0.46
1:G:490:HIS:CD2	1:G:491:GLU:H	2.33	0.46
1:I:490:HIS:CD2	1:I:491:GLU:H	2.33	0.46
1:K:314:TYR:HE2	1:K:317:PHE:HB2	1.80	0.46
1:L:40:GLN:NE2	1:M:180:ASP:OD2	2.47	0.46
1:L:308:GLU:O	1:L:312:GLU:HG3	2.15	0.46
1:L:471:THR:HA	1:L:688:LEU:HD13	1.96	0.46
1:S:285:LEU:O	1:S:289:ILE:HG23	2.15	0.46
1:U:167:GLU:HG3	1:U:168:ASN:N	2.30	0.46
1:U:187:LEU:HD13	1:U:225:LEU:HD23	1.97	0.46
1:V:95:GLU:OE1	1:V:98:ARG:NH2	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:167:GLU:HG3	1:W:168:ASN:N	2.30	0.46
1:X:43:GLY:O	1:X:47:VAL:HG23	2.15	0.46
1:Y:285:LEU:O	1:Y:289:ILE:HG23	2.15	0.46
1:Y:312:GLU:HA	1:Y:315:LYS:HE3	1.96	0.46
1:Z:40:GLN:NE2	1:E2:180:ASP:OD2	2.47	0.46
1:E2:422:GLU:HB2	1:E2:423:PRO:HD3	1.95	0.46
1:F2:44:LYS:NZ	1:F2:139:GLY:HA2	2.30	0.46
1:H2:167:GLU:HG3	1:H2:168:ASN:N	2.30	0.46
1:H2:388:ILE:HG22	1:H2:412:ILE:CG1	2.41	0.46
1:I2:285:LEU:O	1:I2:289:ILE:HG23	2.15	0.46
1:I2:335:GLN:HA	1:I2:338:VAL:HG12	1.97	0.46
1:C2:79:GLU:OE2	1:C2:128:HIS:NE2	2.49	0.46
1:A2:43:GLY:O	1:A2:47:VAL:HG23	2.15	0.46
1:D:489:ASN:HD21	1:V:364:ARG:HH12	1.62	0.46
1:F:335:GLN:HA	1:F:338:VAL:HG12	1.97	0.46
1:G:79:GLU:OE2	1:G:128:HIS:NE2	2.49	0.46
1:G:388:ILE:HG12	1:G:412:ILE:HG13	1.97	0.46
1:L:10:ILE:HG13	1:L:11:PRO:HD3	1.98	0.46
1:L:79:GLU:OE2	1:L:128:HIS:NE2	2.49	0.46
1:N:10:ILE:HG13	1:N:11:PRO:HD3	1.98	0.46
1:P:67:ARG:NH2	1:P:118:VAL:HG23	2.31	0.46
1:P:686:MET:HE3	1:I2:485:TYR:HB2	1.98	0.46
1:R:44:LYS:HZ2	1:R:139:GLY:HA2	1.81	0.46
1:R:67:ARG:NH2	1:R:118:VAL:HG23	2.31	0.46
1:R:314:TYR:HE2	1:R:317:PHE:HB2	1.80	0.46
1:U:335:GLN:HA	1:U:338:VAL:HG12	1.96	0.46
1:V:79:GLU:OE2	1:V:128:HIS:NE2	2.49	0.46
1:Y:167:GLU:HG3	1:Y:168:ASN:N	2.30	0.46
1:A:10:ILE:HG13	1:A:11:PRO:HD3	1.98	0.46
1:B:335:GLN:HA	1:B:338:VAL:HG12	1.97	0.46
1:C:490:HIS:CD2	1:C:491:GLU:H	2.33	0.46
1:D:388:ILE:HG22	1:D:412:ILE:CG1	2.41	0.46
1:F:167:GLU:HG3	1:F:168:ASN:N	2.30	0.46
1:H:285:LEU:O	1:H:289:ILE:HG23	2.15	0.46
1:I:43:GLY:O	1:I:47:VAL:HG23	2.15	0.46
1:J:285:LEU:O	1:J:289:ILE:HG23	2.15	0.46
1:N:67:ARG:NH2	1:N:118:VAL:HG23	2.31	0.46
1:P:79:GLU:OE2	1:P:128:HIS:NE2	2.49	0.46
1:P:407:MET:HE2	1:R:350:GLN:N	2.22	0.46
1:Q:187:LEU:HD13	1:Q:225:LEU:HD23	1.97	0.46
1:Q:388:ILE:HG22	1:Q:412:ILE:CG1	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:308:GLU:O	1:R:312:GLU:HG3	2.16	0.46
1:W:239:GLN:OE1	2:W:901:GCP:O3'	2.34	0.46
1:Y:239:GLN:OE1	2:Y:901:GCP:O3'	2.34	0.46
1:E2:388:ILE:HG22	1:E2:412:ILE:CG1	2.41	0.46
1:F2:67:ARG:NH2	1:F2:118:VAL:HG23	2.31	0.46
1:H2:285:LEU:O	1:H2:289:ILE:HG23	2.15	0.46
1:I2:221:GLU:OE1	1:I2:223:LYS:NZ	2.42	0.46
1:C2:10:ILE:HG13	1:C2:11:PRO:HD3	1.98	0.46
1:C2:43:GLY:O	1:C2:47:VAL:HG23	2.15	0.46
1:A2:308:GLU:O	1:A2:312:GLU:HG3	2.15	0.46
1:A2:480:ASP:OD2	1:J2:687:HIS:NE2	2.48	0.46
1:D:489:ASN:HD21	1:V:364:ARG:NH1	2.14	0.46
1:F:285:LEU:O	1:F:289:ILE:HG23	2.15	0.46
1:J:221:GLU:OE1	1:J:223:LYS:NZ	2.42	0.46
1:L:67:ARG:NH2	1:L:118:VAL:HG23	2.31	0.46
1:M:167:GLU:HG3	1:M:168:ASN:N	2.30	0.46
1:R:388:ILE:HG12	1:R:412:ILE:HG13	1.97	0.46
1:R:467:ARG:C	1:R:689:MET:HE1	2.41	0.46
1:X:44:LYS:NZ	1:X:139:GLY:HA2	2.30	0.46
1:X:95:GLU:OE1	1:X:98:ARG:NH2	2.41	0.46
1:Z:67:ARG:NH2	1:Z:118:VAL:HG23	2.31	0.46
1:Z:95:GLU:OE1	1:Z:98:ARG:NH2	2.41	0.46
1:Z:453:ARG:NH2	1:F2:228:ARG:HG3	2.31	0.46
1:Z:467:ARG:C	1:Z:689:MET:HE1	2.41	0.46
1:E2:312:GLU:HA	1:E2:315:LYS:HE3	1.96	0.46
1:C2:308:GLU:O	1:C2:312:GLU:HG3	2.16	0.46
1:D2:285:LEU:O	1:D2:289:ILE:HG23	2.15	0.46
1:D2:388:ILE:HG22	1:D2:412:ILE:CG1	2.41	0.46
1:D2:397:GLY:CA	1:B2:360:ALA:HB1	2.46	0.46
1:A2:67:ARG:NH2	1:A2:118:VAL:HG23	2.31	0.46
1:B:683:LYS:HZ1	1:X:487:ASN:H	1.63	0.46
1:C:43:GLY:O	1:C:47:VAL:HG23	2.15	0.46
1:C:308:GLU:O	1:C:312:GLU:HG3	2.16	0.46
1:G:314:TYR:HE2	1:G:317:PHE:HB2	1.80	0.46
1:J:388:ILE:HG22	1:J:412:ILE:CG1	2.41	0.46
1:K:67:ARG:NH2	1:K:118:VAL:HG23	2.31	0.46
1:N:490:HIS:CD2	1:N:491:GLU:H	2.33	0.46
1:P:10:ILE:HG13	1:P:11:PRO:HD3	1.98	0.46
1:T:67:ARG:NH2	1:T:118:VAL:HG23	2.31	0.46
1:T:467:ARG:C	1:T:689:MET:HE1	2.41	0.46
1:U:239:GLN:OE1	2:U:901:GCP:O3'	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:222:ASN:ND2	1:Y:227:LEU:O	2.32	0.46
1:Y:335:GLN:HA	1:Y:338:VAL:HG12	1.97	0.46
1:E2:239:GLN:OE1	2:E2:901:GCP:O3'	2.34	0.46
1:F2:43:GLY:O	1:F2:47:VAL:HG23	2.15	0.46
1:A2:44:LYS:NZ	1:A2:139:GLY:HA2	2.30	0.46
1:A2:388:ILE:HG12	1:A2:412:ILE:HG13	1.97	0.46
1:A2:485:TYR:HD1	1:J2:686:MET:CE	2.24	0.46
1:B:187:LEU:HD13	1:B:225:LEU:HD23	1.97	0.46
1:C:44:LYS:NZ	1:C:139:GLY:HA2	2.30	0.46
1:E:44:LYS:NZ	1:E:139:GLY:HA2	2.30	0.46
1:V:467:ARG:C	1:V:689:MET:HE1	2.41	0.46
1:X:467:ARG:C	1:X:689:MET:HE1	2.41	0.46
1:Z:79:GLU:OE2	1:Z:128:HIS:NE2	2.49	0.46
1:E2:167:GLU:HG3	1:E2:168:ASN:N	2.30	0.46
1:F2:388:ILE:HG12	1:F2:412:ILE:HG13	1.97	0.46
1:I2:167:GLU:HG3	1:I2:168:ASN:N	2.30	0.46
1:D2:335:GLN:HA	1:D2:338:VAL:HG12	1.97	0.45
1:A2:350:GLN:N	1:A:407:MET:HE2	2.24	0.45
1:B:285:LEU:O	1:B:289:ILE:HG23	2.15	0.45
1:C:388:ILE:HG12	1:C:412:ILE:HG13	1.97	0.45
1:K:10:ILE:HG13	1:K:11:PRO:HD3	1.98	0.45
1:L:44:LYS:NZ	1:L:139:GLY:HA2	2.30	0.45
1:L:44:LYS:HZ2	1:L:139:GLY:HA2	1.80	0.45
1:N:347:SER:O	1:N:351:ILE:HD11	2.17	0.45
1:P:485:TYR:HD1	1:I2:686:MET:HE3	1.77	0.45
1:R:347:SER:O	1:R:351:ILE:HD11	2.17	0.45
1:S:167:GLU:HG3	1:S:168:ASN:N	2.30	0.45
1:T:44:LYS:HZ2	1:T:139:GLY:HA2	1.80	0.45
1:F2:10:ILE:HG13	1:F2:11:PRO:HD3	1.98	0.45
1:F2:281:LEU:HD23	1:F2:281:LEU:HA	1.80	0.45
1:F2:314:TYR:HE2	1:F2:317:PHE:HB2	1.80	0.45
1:D:239:GLN:OE1	2:D:901:GCP:O3'	2.34	0.45
1:E:67:ARG:NH2	1:E:118:VAL:HG23	2.31	0.45
1:E:308:GLU:O	1:E:312:GLU:HG3	2.16	0.45
1:K:347:SER:O	1:K:351:ILE:HD11	2.17	0.45
1:M:285:LEU:O	1:M:289:ILE:HG23	2.15	0.45
1:Q:710:ASP:C	1:Q:712:ASN:H	2.25	0.45
1:V:347:SER:O	1:V:351:ILE:HD11	2.17	0.45
1:W:285:LEU:O	1:W:289:ILE:HG23	2.15	0.45
1:F2:308:GLU:O	1:F2:312:GLU:HG3	2.16	0.45
1:G2:239:GLN:OE1	2:G2:901:GCP:O3'	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J2:285:LEU:O	1:J2:289:ILE:HG23	2.15	0.45
1:C2:388:ILE:HG12	1:C2:412:ILE:HG13	1.97	0.45
1:B2:285:LEU:O	1:B2:289:ILE:HG23	2.15	0.45
1:A:281:LEU:HD23	1:A:281:LEU:HA	1.80	0.45
1:E:330:LEU:CD1	1:M:702:LEU:HD13	2.23	0.45
1:G:308:GLU:O	1:G:312:GLU:HG3	2.16	0.45
1:G:347:SER:O	1:G:351:ILE:HD11	2.17	0.45
1:H:187:LEU:HD13	1:H:225:LEU:HD23	1.97	0.45
1:I:67:ARG:NH2	1:I:118:VAL:HG23	2.31	0.45
1:N:40:GLN:NE2	1:O:180:ASP:OD2	2.47	0.45
1:P:308:GLU:O	1:P:312:GLU:HG3	2.16	0.45
1:P:395:ILE:HG22	1:R:351:ILE:HD12	1.99	0.45
1:S:710:ASP:C	1:S:712:ASN:H	2.25	0.45
1:Z:10:ILE:HG13	1:Z:11:PRO:HD3	1.98	0.45
1:Z:388:ILE:HG12	1:Z:412:ILE:HG13	1.97	0.45
1:F2:467:ARG:C	1:F2:689:MET:HE1	2.41	0.45
1:C2:314:TYR:HE2	1:C2:317:PHE:HB2	1.80	0.45
1:D2:687:HIS:NE2	1:F2:480:ASP:OD2	2.49	0.45
1:B2:187:LEU:HD13	1:B2:225:LEU:HD23	1.97	0.45
1:A:308:GLU:O	1:A:312:GLU:HG3	2.16	0.45
1:A:314:TYR:HE2	1:A:317:PHE:HB2	1.80	0.45
1:A:351:ILE:HD12	1:C:395:ILE:HG22	1.99	0.45
1:C:67:ARG:NH1	1:C:104:GLU:OE2	2.43	0.45
1:D:396:HIS:CB	1:G2:361:ARG:HH21	2.29	0.45
1:F:132:LEU:HD23	1:F:132:LEU:HA	1.86	0.45
1:G:44:LYS:HZ2	1:G:139:GLY:HA2	1.80	0.45
1:N:308:GLU:O	1:N:312:GLU:HG3	2.16	0.45
1:P:142:LYS:NZ	1:Q:185:ASP:OD1	2.30	0.45
1:Q:18:ASP:OD1	1:Q:75:ASN:ND2	2.38	0.45
1:R:44:LYS:NZ	1:R:139:GLY:HA2	2.30	0.45
1:V:67:ARG:NH2	1:V:118:VAL:HG23	2.31	0.45
1:X:67:ARG:NH2	1:X:118:VAL:HG23	2.31	0.45
1:X:388:ILE:HG12	1:X:412:ILE:HG13	1.97	0.45
1:E2:710:ASP:C	1:E2:712:ASN:H	2.25	0.45
1:G2:710:ASP:C	1:G2:712:ASN:H	2.25	0.45
1:H2:239:GLN:OE1	2:H2:901:GCP:O3'	2.34	0.45
1:C2:67:ARG:NH2	1:C2:118:VAL:HG23	2.31	0.45
1:A2:686:MET:HE1	1:J2:485:TYR:CG	2.45	0.45
1:B2:18:ASP:OD1	1:B2:75:ASN:ND2	2.38	0.45
1:C:10:ILE:HG13	1:C:11:PRO:HD3	1.98	0.45
1:D:683:LYS:HG2	1:V:485:TYR:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:710:ASP:C	1:D:712:ASN:H	2.25	0.45
1:E:10:ILE:HG13	1:E:11:PRO:HD3	1.98	0.45
1:G:67:ARG:NH2	1:G:118:VAL:HG23	2.31	0.45
1:L:467:ARG:C	1:L:689:MET:HE1	2.41	0.45
1:O:187:LEU:HD13	1:O:225:LEU:HD23	1.97	0.45
1:Q:285:LEU:O	1:Q:289:ILE:HG23	2.15	0.45
1:S:239:GLN:OE1	2:S:901:GCP:O3'	2.34	0.45
1:T:79:GLU:OE2	1:T:128:HIS:NE2	2.49	0.45
1:V:388:ILE:HG12	1:V:412:ILE:HG13	1.97	0.45
1:X:223:LYS:HB2	1:X:223:LYS:HE3	1.72	0.45
1:Y:361:ARG:CD	1:Y:364:ARG:HD2	2.47	0.45
1:Z:308:GLU:O	1:Z:312:GLU:HG3	2.16	0.45
1:I2:361:ARG:CD	1:I2:364:ARG:HD2	2.47	0.45
1:D2:187:LEU:HD13	1:D2:225:LEU:HD23	1.97	0.45
1:D2:398:ILE:HG12	1:B2:344:ILE:O	2.17	0.45
1:D2:710:ASP:C	1:D2:712:ASN:H	2.25	0.45
1:B2:702:LEU:HD12	1:F2:330:LEU:CD1	2.41	0.45
1:E:466:GLU:CD	1:G:297:ARG:HH22	2.21	0.45
1:G:395:ILE:HG22	1:I:351:ILE:HD12	1.98	0.45
1:H:167:GLU:HG3	1:H:168:ASN:N	2.30	0.45
1:I:467:ARG:C	1:I:689:MET:HE1	2.41	0.45
1:K:467:ARG:C	1:K:689:MET:HE1	2.41	0.45
1:M:187:LEU:HD13	1:M:225:LEU:HD23	1.97	0.45
1:N:467:ARG:C	1:N:689:MET:HE1	2.41	0.45
1:O:167:GLU:HG3	1:O:168:ASN:N	2.30	0.45
1:P:467:ARG:C	1:P:689:MET:HE1	2.41	0.45
1:T:364:ARG:HH12	1:G2:489:ASN:HD21	1.64	0.45
1:U:132:LEU:HD23	1:U:132:LEU:HA	1.86	0.45
1:U:361:ARG:CD	1:U:364:ARG:HD2	2.47	0.45
1:X:10:ILE:HG13	1:X:11:PRO:HD3	1.98	0.45
1:G2:361:ARG:CD	1:G2:364:ARG:HD2	2.47	0.45
1:B2:335:GLN:HA	1:B2:338:VAL:HG12	1.96	0.45
1:B2:388:ILE:HG22	1:B2:412:ILE:CG1	2.41	0.45
1:A:388:ILE:HG12	1:A:412:ILE:HG13	1.97	0.45
1:B:388:ILE:HG22	1:B:412:ILE:CG1	2.41	0.45
1:I:681:MET:HB3	1:I:682:PRO:HD3	1.99	0.45
1:S:221:GLU:OE1	1:S:223:LYS:NZ	2.42	0.45
1:U:221:GLU:OE1	1:U:223:LYS:NZ	2.42	0.45
1:W:335:GLN:HA	1:W:338:VAL:HG12	1.97	0.45
1:X:681:MET:HB3	1:X:682:PRO:HD3	1.99	0.45
1:F2:681:MET:HB3	1:F2:682:PRO:HD3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:467:ARG:C	1:A2:689:MET:HE1	2.41	0.45
1:B:239:GLN:OE1	2:B:901:GCP:O3'	2.34	0.45
1:B:361:ARG:CD	1:B:364:ARG:HD2	2.47	0.45
1:C:79:GLU:OE2	1:C:128:HIS:NE2	2.49	0.45
1:D:73:LEU:HD22	1:D:129:VAL:HG21	1.99	0.45
1:F:187:LEU:HD13	1:F:225:LEU:HD23	1.97	0.45
1:F:710:ASP:C	1:F:712:ASN:H	2.25	0.45
1:N:44:LYS:HZ2	1:N:139:GLY:HA2	1.81	0.45
1:N:681:MET:HB3	1:N:682:PRO:HD3	1.99	0.45
1:P:681:MET:HB3	1:P:682:PRO:HD3	1.99	0.45
1:Q:221:GLU:OE1	1:Q:223:LYS:NZ	2.42	0.45
1:Q:361:ARG:CD	1:Q:364:ARG:HD2	2.47	0.45
1:S:361:ARG:CD	1:S:364:ARG:HD2	2.47	0.45
1:T:681:MET:HB3	1:T:682:PRO:HD3	1.99	0.45
1:W:221:GLU:OE1	1:W:223:LYS:NZ	2.42	0.45
1:W:388:ILE:HG22	1:W:412:ILE:CG1	2.41	0.45
1:Y:208:ASP:OD1	1:Y:208:ASP:N	2.46	0.45
1:G2:132:LEU:HD23	1:G2:132:LEU:HA	1.86	0.45
1:H2:227:LEU:HD12	1:H2:227:LEU:HA	1.84	0.45
1:J2:187:LEU:HD13	1:J2:225:LEU:HD23	1.97	0.45
1:C2:364:ARG:NH1	1:M:489:ASN:HD21	2.15	0.45
1:A2:681:MET:HB3	1:A2:682:PRO:HD3	1.99	0.45
1:B2:73:LEU:HD22	1:B2:129:VAL:HG21	1.99	0.45
1:A:681:MET:HB3	1:A:682:PRO:HD3	1.99	0.45
1:C:467:ARG:C	1:C:689:MET:HE1	2.41	0.45
1:C:681:MET:HB3	1:C:682:PRO:HD3	1.99	0.45
1:H:239:GLN:OE1	2:H:901:GCP:O3'	2.34	0.45
1:L:681:MET:HB3	1:L:682:PRO:HD3	1.99	0.45
1:M:73:LEU:HD22	1:M:129:VAL:HG21	1.99	0.45
1:M:398:ILE:HG12	1:J2:344:ILE:O	2.17	0.45
1:O:221:GLU:OE1	1:O:223:LYS:NZ	2.42	0.45
1:O:285:LEU:O	1:O:289:ILE:HG23	2.15	0.45
1:Q:73:LEU:HD22	1:Q:129:VAL:HG21	1.99	0.45
1:R:681:MET:HB3	1:R:682:PRO:HD3	1.99	0.45
1:S:93:ASP:O	1:S:97:VAL:HG23	2.17	0.45
1:Y:388:ILE:HG13	1:Y:659:VAL:HG23	1.99	0.45
1:E2:73:LEU:HD22	1:E2:129:VAL:HG21	1.99	0.45
1:I2:208:ASP:OD1	1:I2:208:ASP:N	2.46	0.45
1:I2:239:GLN:OE1	2:I2:901:GCP:O3'	2.34	0.45
1:J2:239:GLN:OE1	2:J2:901:GCP:O3'	2.34	0.45
1:C2:681:MET:HB3	1:C2:682:PRO:HD3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:347:SER:O	1:A2:351:ILE:HD11	2.17	0.45
1:B2:361:ARG:CD	1:B2:364:ARG:HD2	2.47	0.45
1:A:467:ARG:C	1:A:689:MET:HE1	2.41	0.45
1:D:208:ASP:N	1:D:208:ASP:OD1	2.46	0.45
1:D:361:ARG:CD	1:D:364:ARG:HD2	2.47	0.45
1:G:468:GLU:HA	1:G:471:THR:HG22	1.99	0.45
1:G:681:MET:HB3	1:G:682:PRO:HD3	1.99	0.45
1:J:239:GLN:OE1	2:J:901:GCP:O3'	2.34	0.45
1:K:681:MET:HB3	1:K:682:PRO:HD3	1.99	0.45
1:M:239:GLN:OE1	2:M:901:GCP:O3'	2.34	0.45
1:N:468:GLU:HA	1:N:471:THR:HG22	1.99	0.45
1:O:93:ASP:O	1:O:97:VAL:HG23	2.17	0.45
1:O:361:ARG:CD	1:O:364:ARG:HD2	2.47	0.45
1:O:361:ARG:HH22	1:Q:393:LYS:HA	1.82	0.45
1:Q:167:GLU:HG3	1:Q:168:ASN:N	2.30	0.45
1:T:67:ARG:NH1	1:T:104:GLU:OE2	2.43	0.45
1:V:10:ILE:HG13	1:V:11:PRO:HD3	1.98	0.45
1:W:710:ASP:C	1:W:712:ASN:H	2.25	0.45
1:Y:710:ASP:C	1:Y:712:ASN:H	2.25	0.45
1:Z:223:LYS:HB2	1:Z:223:LYS:HE3	1.72	0.45
1:E2:388:ILE:HG13	1:E2:659:VAL:HG23	1.99	0.45
1:F2:347:SER:O	1:F2:351:ILE:HD11	2.17	0.45
1:H2:710:ASP:C	1:H2:712:ASN:H	2.25	0.45
1:J2:388:ILE:HG22	1:J2:412:ILE:CG1	2.41	0.45
1:C2:347:SER:O	1:C2:351:ILE:HD11	2.17	0.44
1:D2:361:ARG:CD	1:D2:364:ARG:HD2	2.47	0.44
1:D2:388:ILE:HG13	1:D2:659:VAL:HG23	1.99	0.44
1:B2:673:VAL:HA	1:B2:676:THR:HG22	2.00	0.44
1:B:687:HIS:NE2	1:X:480:ASP:OD2	2.51	0.44
1:D:93:ASP:O	1:D:97:VAL:HG23	2.18	0.44
1:F:239:GLN:OE1	2:F:901:GCP:O3'	2.34	0.44
1:F:388:ILE:HG13	1:F:659:VAL:HG23	2.00	0.44
1:G:467:ARG:C	1:G:689:MET:HE1	2.41	0.44
1:J:187:LEU:HD13	1:J:225:LEU:HD23	1.97	0.44
1:J:710:ASP:C	1:J:712:ASN:H	2.25	0.44
1:L:347:SER:O	1:L:351:ILE:HD11	2.17	0.44
1:O:239:GLN:OE1	2:O:901:GCP:O3'	2.34	0.44
1:O:710:ASP:C	1:O:712:ASN:H	2.25	0.44
1:R:10:ILE:HG13	1:R:11:PRO:HD3	1.98	0.44
1:T:10:ILE:HG13	1:T:11:PRO:HD3	1.98	0.44
1:T:307:ILE:O	1:T:311:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:93:ASP:O	1:W:97:VAL:HG23	2.17	0.44
1:W:388:ILE:HG13	1:W:659:VAL:HG23	2.00	0.44
1:X:347:SER:O	1:X:351:ILE:HD11	2.17	0.44
1:Z:457:GLU:O	1:Z:461:THR:OG1	2.31	0.44
1:Z:681:MET:HB3	1:Z:682:PRO:HD3	1.99	0.44
1:F2:65:THR:N	2:F2:901:GCP:O3G	2.51	0.44
1:H2:73:LEU:HD22	1:H2:129:VAL:HG21	1.99	0.44
1:H2:398:ILE:HG12	1:I2:344:ILE:O	2.16	0.44
1:A2:363:ASN:HD21	1:A2:690:ILE:CD1	2.31	0.44
1:B2:710:ASP:C	1:B2:712:ASN:H	2.25	0.44
1:A:363:ASN:HD21	1:A:690:ILE:CD1	2.31	0.44
1:B:388:ILE:HG13	1:B:659:VAL:HG23	1.99	0.44
1:C:347:SER:O	1:C:351:ILE:HD11	2.17	0.44
1:E:467:ARG:C	1:E:689:MET:HE1	2.41	0.44
1:E:681:MET:HB3	1:E:682:PRO:HD3	1.99	0.44
1:F:73:LEU:HD22	1:F:129:VAL:HG21	1.99	0.44
1:F:93:ASP:O	1:F:97:VAL:HG23	2.17	0.44
1:H:388:ILE:HG13	1:H:659:VAL:HG23	2.00	0.44
1:I:363:ASN:HD21	1:I:690:ILE:CD1	2.31	0.44
1:J:93:ASP:O	1:J:97:VAL:HG23	2.17	0.44
1:J:167:GLU:HG3	1:J:168:ASN:N	2.30	0.44
1:L:468:GLU:HA	1:L:471:THR:HG22	2.00	0.44
1:M:361:ARG:CD	1:M:364:ARG:HD2	2.47	0.44
1:T:468:GLU:HA	1:T:471:THR:HG22	2.00	0.44
1:U:73:LEU:HD22	1:U:129:VAL:HG21	1.99	0.44
1:U:710:ASP:C	1:U:712:ASN:H	2.25	0.44
1:Z:65:THR:N	2:Z:901:GCP:O3G	2.51	0.44
1:G2:93:ASP:O	1:G2:97:VAL:HG23	2.17	0.44
1:G2:388:ILE:HG13	1:G2:659:VAL:HG23	1.99	0.44
1:J2:93:ASP:O	1:J2:97:VAL:HG23	2.17	0.44
1:A2:281:LEU:HD23	1:A2:281:LEU:HA	1.80	0.44
1:A2:364:ARG:HH12	1:J2:489:ASN:HD21	1.65	0.44
1:B2:388:ILE:HG13	1:B2:659:VAL:HG23	2.00	0.44
1:B:710:ASP:C	1:B:712:ASN:H	2.25	0.44
1:C:363:ASN:HD21	1:C:690:ILE:CD1	2.31	0.44
1:E:468:GLU:HA	1:E:471:THR:HG22	2.00	0.44
1:F:361:ARG:CD	1:F:364:ARG:HD2	2.47	0.44
1:G:388:ILE:HG22	1:G:659:VAL:HG22	2.00	0.44
1:H:73:LEU:HD22	1:H:129:VAL:HG21	1.99	0.44
1:I:347:SER:O	1:I:351:ILE:HD11	2.17	0.44
1:J:361:ARG:CD	1:J:364:ARG:HD2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:388:ILE:HG13	1:J:659:VAL:HG23	2.00	0.44
1:K:468:GLU:HA	1:K:471:THR:HG22	2.00	0.44
1:M:361:ARG:NH2	1:O:396:HIS:HB2	2.33	0.44
1:N:117:PRO:HG2	1:Q:90:LYS:HE2	1.99	0.44
1:P:468:GLU:HA	1:P:471:THR:HG22	2.00	0.44
1:R:468:GLU:HA	1:R:471:THR:HG22	2.00	0.44
1:U:388:ILE:HG13	1:U:659:VAL:HG23	2.00	0.44
1:U:673:VAL:HA	1:U:676:THR:HG22	2.00	0.44
1:V:681:MET:HB3	1:V:682:PRO:HD3	1.99	0.44
1:H2:388:ILE:HG13	1:H2:659:VAL:HG23	1.99	0.44
1:I2:388:ILE:HG13	1:I2:659:VAL:HG23	2.00	0.44
1:J2:710:ASP:C	1:J2:712:ASN:H	2.25	0.44
1:C2:228:ARG:HG3	1:A2:453:ARG:NH2	2.33	0.44
1:C2:307:ILE:O	1:C2:311:VAL:HG23	2.18	0.44
1:A:65:THR:N	2:A:901:GCP:O3G	2.51	0.44
1:A:347:SER:O	1:A:351:ILE:HD11	2.17	0.44
1:B:93:ASP:O	1:B:97:VAL:HG23	2.17	0.44
1:C:65:THR:N	2:C:901:GCP:O3G	2.51	0.44
1:C:307:ILE:O	1:C:311:VAL:HG23	2.18	0.44
1:D:221:GLU:OE1	1:D:223:LYS:NZ	2.42	0.44
1:D:388:ILE:HG13	1:D:659:VAL:HG23	2.00	0.44
1:E:223:LYS:HB2	1:E:223:LYS:HE3	1.72	0.44
1:G:363:ASN:HD21	1:G:690:ILE:CD1	2.31	0.44
1:H:361:ARG:CD	1:H:364:ARG:HD2	2.47	0.44
1:J:73:LEU:HD22	1:J:129:VAL:HG21	1.99	0.44
1:K:363:ASN:HD21	1:K:690:ILE:CD1	2.31	0.44
1:K:388:ILE:HG22	1:K:659:VAL:HG22	2.00	0.44
1:L:388:ILE:HG22	1:L:659:VAL:HG22	2.00	0.44
1:N:113:LYS:O	1:N:148:GLN:NE2	2.37	0.44
1:P:347:SER:O	1:P:351:ILE:HD11	2.17	0.44
1:P:406:ASP:OD1	1:H2:402:LEU:HB3	2.17	0.44
1:R:237:ARG:O	2:R:901:GCP:O2'	2.34	0.44
1:R:363:ASN:HD21	1:R:690:ILE:CD1	2.31	0.44
1:S:388:ILE:HG13	1:S:659:VAL:HG23	1.99	0.44
1:T:117:PRO:HG2	1:W:90:LYS:HE2	1.98	0.44
1:W:73:LEU:HD22	1:W:129:VAL:HG21	1.99	0.44
1:W:361:ARG:HH22	1:Y:393:LYS:HA	1.81	0.44
1:X:458:ARG:NE	1:Z:290:ARG:HH22	2.15	0.44
1:Z:281:LEU:HD23	1:Z:281:LEU:HA	1.80	0.44
1:H2:93:ASP:O	1:H2:97:VAL:HG23	2.17	0.44
1:I2:73:LEU:HD22	1:I2:129:VAL:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J2:361:ARG:CD	1:J2:364:ARG:HD2	2.47	0.44
1:C2:363:ASN:HD21	1:C2:690:ILE:CD1	2.31	0.44
1:C2:467:ARG:C	1:C2:689:MET:HE1	2.41	0.44
1:D2:93:ASP:O	1:D2:97:VAL:HG23	2.17	0.44
1:A2:468:GLU:HA	1:A2:471:THR:HG22	2.00	0.44
1:E:307:ILE:O	1:E:311:VAL:HG23	2.18	0.44
1:F:673:VAL:HA	1:F:676:THR:HG22	2.00	0.44
1:G:307:ILE:O	1:G:311:VAL:HG23	2.18	0.44
1:H:93:ASP:O	1:H:97:VAL:HG23	2.17	0.44
1:H:380:ASP:O	1:H:381:GLU:HG2	2.18	0.44
1:H:710:ASP:C	1:H:712:ASN:H	2.25	0.44
1:I:468:GLU:HA	1:I:471:THR:HG22	1.99	0.44
1:K:237:ARG:O	2:K:901:GCP:O2'	2.34	0.44
1:K:307:ILE:O	1:K:311:VAL:HG23	2.18	0.44
1:L:458:ARG:NE	1:N:290:ARG:HH22	2.15	0.44
1:M:380:ASP:O	1:M:381:GLU:HG2	2.18	0.44
1:P:307:ILE:O	1:P:311:VAL:HG23	2.18	0.44
1:P:363:ASN:HD21	1:P:690:ILE:CD1	2.31	0.44
1:P:687:HIS:CD2	1:I2:480:ASP:O	2.71	0.44
1:T:363:ASN:HD21	1:T:690:ILE:CD1	2.31	0.44
1:V:117:PRO:HG2	1:Y:90:LYS:HE2	1.98	0.44
1:W:361:ARG:CD	1:W:364:ARG:HD2	2.47	0.44
1:X:65:THR:N	2:X:901:GCP:O3G	2.51	0.44
1:X:468:GLU:HA	1:X:471:THR:HG22	2.00	0.44
1:Z:307:ILE:O	1:Z:311:VAL:HG23	2.18	0.44
1:Z:347:SER:O	1:Z:351:ILE:HD11	2.17	0.44
1:E2:93:ASP:O	1:E2:97:VAL:HG23	2.17	0.44
1:C2:468:GLU:HA	1:C2:471:THR:HG22	2.00	0.44
1:D2:739:LEU:HD23	1:D2:739:LEU:HA	1.84	0.44
1:A2:65:THR:N	2:A2:901:GCP:O3G	2.51	0.44
1:A2:307:ILE:O	1:A2:311:VAL:HG23	2.18	0.44
1:B2:239:GLN:OE1	2:B2:901:GCP:O3'	2.34	0.44
1:B:90:LYS:HE2	1:C:117:PRO:HG2	1.99	0.44
1:B:485:TYR:CG	1:X:686:MET:HE1	2.51	0.44
1:D:673:VAL:HA	1:D:676:THR:HG22	2.00	0.44
1:G:487:ASN:H	1:Q:683:LYS:HZ1	1.65	0.44
1:I:307:ILE:O	1:I:311:VAL:HG23	2.18	0.44
1:L:307:ILE:O	1:L:311:VAL:HG23	2.18	0.44
1:N:307:ILE:O	1:N:311:VAL:HG23	2.18	0.44
1:O:73:LEU:HD22	1:O:129:VAL:HG21	1.99	0.44
1:O:380:ASP:O	1:O:381:GLU:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:65:THR:N	2:P:901:GCP:O3G	2.51	0.44
1:Q:239:GLN:OE1	2:Q:901:GCP:O3'	2.34	0.44
1:Q:673:VAL:HA	1:Q:676:THR:HG22	2.00	0.44
1:R:307:ILE:O	1:R:311:VAL:HG23	2.18	0.44
1:S:73:LEU:HD22	1:S:129:VAL:HG21	1.99	0.44
1:V:468:GLU:HA	1:V:471:THR:HG22	2.00	0.44
1:E2:361:ARG:CD	1:E2:364:ARG:HD2	2.47	0.44
1:J2:73:LEU:HD22	1:J2:129:VAL:HG21	1.99	0.44
1:J2:157:ARG:NH2	1:J2:192:GLU:OE2	2.51	0.44
1:J2:380:ASP:O	1:J2:381:GLU:HG2	2.18	0.44
1:J2:388:ILE:HG13	1:J2:659:VAL:HG23	2.00	0.44
1:J2:673:VAL:HA	1:J2:676:THR:HG22	2.00	0.44
1:C2:388:ILE:HG22	1:C2:659:VAL:HG22	2.00	0.44
1:D2:73:LEU:HD22	1:D2:129:VAL:HG21	1.99	0.44
1:D2:239:GLN:OE1	2:D2:901:GCP:O3'	2.34	0.44
1:A2:79:GLU:OE2	1:A2:128:HIS:NE2	2.49	0.44
1:B2:380:ASP:O	1:B2:381:GLU:HG2	2.18	0.44
1:B2:484:ALA:HB2	1:Z:687:HIS:HB2	2.00	0.44
1:A:307:ILE:O	1:A:311:VAL:HG23	2.18	0.44
1:D:662:ILE:O	1:D:666:VAL:HG23	2.18	0.44
1:E:67:ARG:NH1	1:E:104:GLU:OE2	2.43	0.44
1:E:347:SER:O	1:E:351:ILE:HD11	2.17	0.44
1:E:363:ASN:HD21	1:E:690:ILE:CD1	2.31	0.44
1:F:221:GLU:OE1	1:F:223:LYS:NZ	2.42	0.44
1:I:79:GLU:OE2	1:I:128:HIS:NE2	2.49	0.44
1:I:487:ASN:H	1:S:683:LYS:HZ1	1.65	0.44
1:N:65:THR:N	2:N:901:GCP:O3G	2.51	0.44
1:O:388:ILE:HG13	1:O:659:VAL:HG23	1.99	0.44
1:P:388:ILE:HG22	1:P:659:VAL:HG22	2.00	0.44
1:Q:380:ASP:O	1:Q:381:GLU:HG2	2.18	0.44
1:Q:388:ILE:HG13	1:Q:659:VAL:HG23	1.99	0.44
1:V:363:ASN:HD21	1:V:690:ILE:CD1	2.31	0.44
1:V:398:ILE:HD12	1:X:344:ILE:HG23	2.00	0.44
1:W:739:LEU:HA	1:W:739:LEU:HD23	1.84	0.44
1:Y:73:LEU:HD22	1:Y:129:VAL:HG21	1.99	0.44
1:Y:673:VAL:HA	1:Y:676:THR:HG22	2.00	0.44
1:Z:468:GLU:HA	1:Z:471:THR:HG22	1.99	0.44
1:F2:307:ILE:O	1:F2:311:VAL:HG23	2.18	0.44
1:G2:73:LEU:HD22	1:G2:129:VAL:HG21	1.99	0.44
1:H2:673:VAL:HA	1:H2:676:THR:HG22	2.00	0.44
1:I2:118:VAL:HA	1:I2:119:PRO:HD3	1.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I2:673:VAL:HA	1:I2:676:THR:HG22	2.00	0.44
1:C2:690:ILE:HA	1:C2:693:THR:HG22	2.00	0.44
1:B:380:ASP:O	1:B:381:GLU:HG2	2.18	0.44
1:C:468:GLU:HA	1:C:471:THR:HG22	2.00	0.44
1:D:485:TYR:HB3	1:V:683:LYS:HG2	2.00	0.44
1:E:690:ILE:HA	1:E:693:THR:HG22	2.00	0.44
1:G:398:ILE:HD12	1:I:344:ILE:HG23	2.00	0.44
1:I:67:ARG:HH21	1:I:118:VAL:HG23	1.83	0.44
1:J:157:ARG:NH2	1:J:192:GLU:OE2	2.51	0.44
1:J:380:ASP:O	1:J:381:GLU:HG2	2.18	0.44
1:J:673:VAL:HA	1:J:676:THR:HG22	2.00	0.44
1:K:489:ASN:HD22	1:U:368:GLU:HG2	1.82	0.44
1:M:157:ARG:NH2	1:M:192:GLU:OE2	2.51	0.44
1:M:361:ARG:HH21	1:O:396:HIS:CB	2.30	0.44
1:M:388:ILE:HG13	1:M:659:VAL:HG23	1.99	0.44
1:N:363:ASN:HD21	1:N:690:ILE:CD1	2.31	0.44
1:R:223:LYS:HB2	1:R:223:LYS:HE3	1.72	0.44
1:T:347:SER:O	1:T:351:ILE:HD11	2.17	0.44
1:V:223:LYS:HB2	1:V:223:LYS:HE3	1.72	0.44
1:X:166:LYS:HE3	1:X:166:LYS:HB2	1.90	0.44
1:Y:93:ASP:O	1:Y:97:VAL:HG23	2.17	0.44
1:F2:223:LYS:HE3	1:F2:223:LYS:HB2	1.72	0.44
1:G2:208:ASP:N	1:G2:208:ASP:OD1	2.46	0.44
1:I2:93:ASP:O	1:I2:97:VAL:HG23	2.17	0.44
1:J2:686:MET:HG2	1:J2:690:ILE:CG1	2.48	0.44
1:B2:93:ASP:O	1:B2:97:VAL:HG23	2.17	0.44
1:B2:739:LEU:HD23	1:B2:739:LEU:HA	1.84	0.44
1:B:73:LEU:HD22	1:B:129:VAL:HG21	1.99	0.44
1:B:662:ILE:O	1:B:666:VAL:HG23	2.18	0.44
1:E:79:GLU:OE2	1:E:128:HIS:NE2	2.49	0.44
1:G:690:ILE:HA	1:G:693:THR:HG22	2.00	0.44
1:N:453:ARG:NH2	1:P:228:ARG:HG3	2.33	0.44
1:O:673:VAL:HA	1:O:676:THR:HG22	2.00	0.44
1:T:690:ILE:HA	1:T:693:THR:HG22	2.00	0.44
1:V:307:ILE:O	1:V:311:VAL:HG23	2.18	0.44
1:V:690:ILE:HA	1:V:693:THR:HG22	2.00	0.44
1:X:363:ASN:HD21	1:X:690:ILE:CD1	2.31	0.44
1:E2:673:VAL:HA	1:E2:676:THR:HG22	2.00	0.44
1:F2:468:GLU:HA	1:F2:471:THR:HG22	2.00	0.44
1:H2:361:ARG:CD	1:H2:364:ARG:HD2	2.47	0.44
1:C2:65:THR:N	2:C2:901:GCP:O3G	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B2:157:ARG:NH2	1:B2:192:GLU:OE2	2.51	0.43
1:B2:662:ILE:O	1:B2:666:VAL:HG23	2.18	0.43
1:A:67:ARG:HH21	1:A:118:VAL:HG23	1.83	0.43
1:B:37:VAL:HG21	1:B:160:LEU:HD13	2.00	0.43
1:B:330:LEU:HB3	1:Z:702:LEU:HD21	2.00	0.43
1:E:67:ARG:HH21	1:E:118:VAL:HG23	1.83	0.43
1:H:686:MET:HG2	1:H:690:ILE:CG1	2.48	0.43
1:I:690:ILE:HA	1:I:693:THR:HG22	2.00	0.43
1:L:65:THR:N	2:L:901:GCP:O3G	2.51	0.43
1:M:93:ASP:O	1:M:97:VAL:HG23	2.17	0.43
1:M:673:VAL:HA	1:M:676:THR:HG22	2.00	0.43
1:N:67:ARG:HH21	1:N:118:VAL:HG23	1.83	0.43
1:N:388:ILE:HG22	1:N:659:VAL:HG22	2.00	0.43
1:P:117:PRO:HG2	1:S:90:LYS:HE2	1.99	0.43
1:S:132:LEU:HD23	1:S:132:LEU:HA	1.86	0.43
1:S:380:ASP:O	1:S:381:GLU:HG2	2.18	0.43
1:U:157:ARG:NH2	1:U:192:GLU:OE2	2.51	0.43
1:U:686:MET:HG2	1:U:690:ILE:CG1	2.48	0.43
1:V:65:THR:N	2:V:901:GCP:O3G	2.51	0.43
1:Z:44:LYS:HZ2	1:Z:139:GLY:HA2	1.83	0.43
1:Z:400:THR:HA	1:F2:364:ARG:NH2	2.33	0.43
1:G2:662:ILE:O	1:G2:666:VAL:HG23	2.18	0.43
1:D2:157:ARG:NH2	1:D2:192:GLU:OE2	2.51	0.43
1:D2:227:LEU:HD12	1:D2:227:LEU:HA	1.84	0.43
1:D2:662:ILE:O	1:D2:666:VAL:HG23	2.18	0.43
1:A2:690:ILE:HA	1:A2:693:THR:HG22	2.00	0.43
1:B2:396:HIS:HB2	1:B:361:ARG:HH21	1.83	0.43
1:A:468:GLU:HA	1:A:471:THR:HG22	2.00	0.43
1:D:37:VAL:HG21	1:D:160:LEU:HD13	2.00	0.43
1:F:380:ASP:O	1:F:381:GLU:HG2	2.18	0.43
1:H:673:VAL:HA	1:H:676:THR:HG22	2.00	0.43
1:I:66:ARG:HB3	1:I:105:THR:CG2	2.49	0.43
1:J:686:MET:HG2	1:J:690:ILE:CG1	2.48	0.43
1:M:686:MET:HG2	1:M:690:ILE:CG1	2.48	0.43
1:M:710:ASP:C	1:M:712:ASN:H	2.25	0.43
1:N:79:GLU:OE2	1:N:128:HIS:NE2	2.49	0.43
1:O:686:MET:HG2	1:O:690:ILE:CG1	2.48	0.43
1:Q:686:MET:HG2	1:Q:690:ILE:CG1	2.48	0.43
1:R:690:ILE:HA	1:R:693:THR:HG22	2.00	0.43
1:S:673:VAL:HA	1:S:676:THR:HG22	2.00	0.43
1:S:686:MET:HG2	1:S:690:ILE:CG1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:93:ASP:O	1:U:97:VAL:HG23	2.17	0.43
1:W:157:ARG:NH2	1:W:192:GLU:OE2	2.51	0.43
1:W:673:VAL:HA	1:W:676:THR:HG22	2.00	0.43
1:X:690:ILE:HA	1:X:693:THR:HG22	2.00	0.43
1:Y:380:ASP:O	1:Y:381:GLU:HG2	2.18	0.43
1:E2:37:VAL:HG21	1:E2:160:LEU:HD13	2.00	0.43
1:E2:380:ASP:O	1:E2:381:GLU:HG2	2.18	0.43
1:G2:37:VAL:HG21	1:G2:160:LEU:HD13	2.00	0.43
1:H2:735:LEU:HD23	1:H2:735:LEU:HA	1.86	0.43
1:J2:456:MET:HE3	1:J2:456:MET:HB2	1.94	0.43
1:D2:686:MET:HG2	1:D2:690:ILE:CG1	2.48	0.43
1:A2:66:ARG:HB3	1:A2:105:THR:CG2	2.49	0.43
1:B2:37:VAL:HG21	1:B2:160:LEU:HD13	2.00	0.43
1:A:350:GLN:N	1:C:407:MET:HE2	2.23	0.43
1:C:271:ARG:HE	1:C:271:ARG:HB3	1.66	0.43
1:F:344:ILE:O	1:H:398:ILE:HG12	2.19	0.43
1:F:686:MET:HG2	1:F:690:ILE:CG1	2.48	0.43
1:K:690:ILE:HA	1:K:693:THR:HG22	2.00	0.43
1:L:66:ARG:HB3	1:L:105:THR:CG2	2.49	0.43
1:L:363:ASN:HD21	1:L:690:ILE:CD1	2.31	0.43
1:M:118:VAL:HA	1:M:119:PRO:HD3	1.90	0.43
1:M:364:ARG:HH21	1:O:400:THR:CA	2.14	0.43
1:N:66:ARG:HB3	1:N:105:THR:CG2	2.49	0.43
1:O:157:ARG:NH2	1:O:192:GLU:OE2	2.51	0.43
1:T:466:GLU:CD	1:V:297:ARG:HH22	2.25	0.43
1:U:380:ASP:O	1:U:381:GLU:HG2	2.18	0.43
1:X:79:GLU:OE2	1:X:128:HIS:NE2	2.49	0.43
1:X:307:ILE:O	1:X:311:VAL:HG23	2.18	0.43
1:E2:662:ILE:O	1:E2:666:VAL:HG23	2.18	0.43
1:F2:67:ARG:HH21	1:F2:118:VAL:HG23	1.83	0.43
1:G2:220:LEU:HD12	1:G2:265:TYR:CE2	2.54	0.43
1:G2:380:ASP:O	1:G2:381:GLU:HG2	2.18	0.43
1:I2:710:ASP:C	1:I2:712:ASN:H	2.25	0.43
1:D2:368:GLU:HG2	1:F2:489:ASN:HD22	1.83	0.43
1:D2:673:VAL:HA	1:D2:676:THR:HG22	2.00	0.43
1:C:66:ARG:HB3	1:C:105:THR:CG2	2.49	0.43
1:E:65:THR:N	2:E:901:GCP:O3G	2.51	0.43
1:G:117:PRO:HG2	1:J:90:LYS:HE2	2.00	0.43
1:H:157:ARG:NH2	1:H:192:GLU:OE2	2.51	0.43
1:H:361:ARG:HH21	1:J:396:HIS:CB	2.32	0.43
1:H:456:MET:HE3	1:H:456:MET:HB2	1.94	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:66:ARG:HB3	1:K:105:THR:CG2	2.49	0.43
1:L:237:ARG:O	2:L:901:GCP:O2'	2.34	0.43
1:M:400:THR:CA	1:J2:364:ARG:HH21	2.18	0.43
1:O:95:GLU:O	1:O:99:LEU:HG	2.19	0.43
1:P:73:LEU:HD22	1:P:129:VAL:HG11	2.01	0.43
1:Q:93:ASP:O	1:Q:97:VAL:HG23	2.17	0.43
1:Q:456:MET:HE3	1:Q:456:MET:HB2	1.94	0.43
1:S:157:ARG:NH2	1:S:192:GLU:OE2	2.51	0.43
1:T:237:ARG:O	2:T:901:GCP:O2'	2.34	0.43
1:V:67:ARG:HH21	1:V:118:VAL:HG23	1.83	0.43
1:W:380:ASP:O	1:W:381:GLU:HG2	2.18	0.43
1:W:686:MET:HG2	1:W:690:ILE:CG1	2.48	0.43
1:Y:37:VAL:HG21	1:Y:160:LEU:HD13	2.00	0.43
1:Z:363:ASN:HD21	1:Z:690:ILE:CD1	2.31	0.43
1:E2:95:GLU:O	1:E2:99:LEU:HG	2.19	0.43
1:E2:220:LEU:HD12	1:E2:265:TYR:CE2	2.54	0.43
1:F2:66:ARG:HB3	1:F2:105:THR:CG2	2.49	0.43
1:G2:673:VAL:HA	1:G2:676:THR:HG22	2.00	0.43
1:H2:380:ASP:O	1:H2:381:GLU:HG2	2.18	0.43
1:H2:662:ILE:O	1:H2:666:VAL:HG23	2.18	0.43
1:C2:66:ARG:HB3	1:C2:105:THR:CG2	2.49	0.43
1:C2:281:LEU:HA	1:C2:281:LEU:HD23	1.80	0.43
1:D2:380:ASP:O	1:D2:381:GLU:HG2	2.18	0.43
1:B2:686:MET:HG2	1:B2:690:ILE:CG1	2.48	0.43
1:A:66:ARG:HB3	1:A:105:THR:CG2	2.49	0.43
1:B:673:VAL:HA	1:B:676:THR:HG22	2.00	0.43
1:D:368:GLU:HG2	1:V:489:ASN:HD22	1.84	0.43
1:G:73:LEU:HD22	1:G:129:VAL:HG11	2.01	0.43
1:H:140:MET:HE2	1:H:140:MET:HB3	1.97	0.43
1:I:388:ILE:HG22	1:I:659:VAL:HG22	2.00	0.43
1:K:38:GLY:CA	1:K:186:ALA:HB2	2.48	0.43
1:K:65:THR:N	2:K:901:GCP:O3G	2.51	0.43
1:K:73:LEU:HD22	1:K:129:VAL:HG11	2.01	0.43
1:O:220:LEU:HD12	1:O:265:TYR:CE2	2.54	0.43
1:O:662:ILE:O	1:O:666:VAL:HG23	2.18	0.43
1:P:66:ARG:HB3	1:P:105:THR:CG2	2.49	0.43
1:R:66:ARG:HB3	1:R:105:THR:CG2	2.49	0.43
1:R:67:ARG:HH21	1:R:118:VAL:HG23	1.83	0.43
1:R:388:ILE:HG22	1:R:659:VAL:HG22	2.00	0.43
1:S:419:LYS:HB3	1:S:419:LYS:HE2	1.88	0.43
1:T:223:LYS:HB2	1:T:223:LYS:HE3	1.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:388:ILE:HG22	1:T:659:VAL:HG22	2.00	0.43
1:U:208:ASP:OD1	1:U:208:ASP:N	2.46	0.43
1:Y:95:GLU:O	1:Y:99:LEU:HG	2.19	0.43
1:Y:686:MET:HG2	1:Y:690:ILE:CG1	2.48	0.43
1:Z:66:ARG:HB3	1:Z:105:THR:CG2	2.49	0.43
1:Z:67:ARG:HH21	1:Z:118:VAL:HG23	1.83	0.43
1:Z:414:LYS:HD3	1:F2:350:GLN:HE21	1.83	0.43
1:I2:95:GLU:O	1:I2:99:LEU:HG	2.19	0.43
1:C2:73:LEU:HD22	1:C2:129:VAL:HG11	2.01	0.43
1:D2:37:VAL:HG21	1:D2:160:LEU:HD13	2.00	0.43
1:B2:396:HIS:CB	1:B:361:ARG:HH21	2.31	0.43
1:A:388:ILE:HG22	1:A:659:VAL:HG22	2.00	0.43
1:B:489:ASN:HD21	1:X:364:ARG:HH12	1.67	0.43
1:E:724:ARG:O	1:E:728:MET:HG2	2.19	0.43
1:G:41:SER:N	2:G:901:GCP:H3B1	2.28	0.43
1:G:65:THR:N	2:G:901:GCP:O3G	2.51	0.43
1:H:220:LEU:HD12	1:H:265:TYR:CE2	2.54	0.43
1:I:38:GLY:CA	1:I:186:ALA:HB2	2.48	0.43
1:I:65:THR:N	2:I:901:GCP:O3G	2.51	0.43
1:L:73:LEU:HD22	1:L:129:VAL:HG11	2.01	0.43
1:M:95:GLU:O	1:M:99:LEU:HG	2.19	0.43
1:N:38:GLY:CA	1:N:186:ALA:HB2	2.48	0.43
1:O:735:LEU:HD23	1:O:735:LEU:HA	1.86	0.43
1:P:223:LYS:HE3	1:P:223:LYS:HB2	1.72	0.43
1:P:690:ILE:HA	1:P:693:THR:HG22	2.00	0.43
1:S:227:LEU:HD12	1:S:227:LEU:HA	1.84	0.43
1:T:66:ARG:HB3	1:T:105:THR:CG2	2.49	0.43
1:T:73:LEU:HD22	1:T:129:VAL:HG11	2.01	0.43
1:X:66:ARG:HB3	1:X:105:THR:CG2	2.49	0.43
1:X:271:ARG:HE	1:X:271:ARG:HB3	1.66	0.43
1:Z:690:ILE:HA	1:Z:693:THR:HG22	2.00	0.43
1:H2:37:VAL:HG21	1:H2:160:LEU:HD13	2.00	0.43
1:C2:395:ILE:HG22	1:E:351:ILE:HD12	1.99	0.43
1:A:73:LEU:HD22	1:A:129:VAL:HG11	2.01	0.43
1:A:690:ILE:HA	1:A:693:THR:HG22	2.00	0.43
1:B:157:ARG:NH2	1:B:192:GLU:OE2	2.51	0.43
1:L:117:PRO:HG2	1:O:90:LYS:HE2	2.01	0.43
1:L:724:ARG:O	1:L:728:MET:HG2	2.19	0.43
1:M:142:LYS:HA	1:M:153:GLU:HB2	2.01	0.43
1:R:466:GLU:CD	1:T:297:ARG:HH22	2.24	0.43
1:U:735:LEU:HD23	1:U:735:LEU:HA	1.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:66:ARG:HB3	1:V:105:THR:CG2	2.49	0.43
1:E2:686:MET:HG2	1:E2:690:ILE:CG1	2.48	0.43
1:F2:388:ILE:HG22	1:F2:659:VAL:HG22	2.00	0.43
1:G2:397:GLY:C	1:H2:360:ALA:HB1	2.43	0.43
1:H2:157:ARG:NH2	1:H2:192:GLU:OE2	2.51	0.43
1:A:271:ARG:HE	1:A:271:ARG:HB3	1.66	0.43
1:B:485:TYR:HB3	1:X:683:LYS:HG2	2.01	0.43
1:B:686:MET:HG2	1:B:690:ILE:CG1	2.48	0.43
1:C:388:ILE:HG22	1:C:659:VAL:HG22	2.00	0.43
1:E:66:ARG:HB3	1:E:105:THR:CG2	2.49	0.43
1:F:662:ILE:O	1:F:666:VAL:HG23	2.18	0.43
1:G:66:ARG:HB3	1:G:105:THR:CG2	2.49	0.43
1:J:142:LYS:HA	1:J:153:GLU:HB2	2.01	0.43
1:J:220:LEU:HD12	1:J:265:TYR:CE2	2.54	0.43
1:K:724:ARG:O	1:K:728:MET:HG2	2.19	0.43
1:O:37:VAL:HG21	1:O:160:LEU:HD13	2.00	0.43
1:Q:95:GLU:O	1:Q:99:LEU:HG	2.19	0.43
1:R:687:HIS:CD2	1:H2:480:ASP:O	2.72	0.43
1:W:37:VAL:HG21	1:W:160:LEU:HD13	2.00	0.43
1:X:73:LEU:HD22	1:X:129:VAL:HG11	2.01	0.43
1:Z:724:ARG:O	1:Z:728:MET:HG2	2.19	0.43
1:E2:419:LYS:HB3	1:E2:419:LYS:HE2	1.88	0.43
1:F2:73:LEU:HD22	1:F2:129:VAL:HG11	2.01	0.43
1:G2:157:ARG:NH2	1:G2:192:GLU:OE2	2.51	0.43
1:I2:662:ILE:O	1:I2:666:VAL:HG23	2.18	0.43
1:J2:142:LYS:HA	1:J2:153:GLU:HB2	2.01	0.43
1:J2:388:ILE:CG2	1:J2:412:ILE:HG13	2.44	0.43
1:C2:67:ARG:HH21	1:C2:118:VAL:HG23	1.83	0.43
1:C2:117:PRO:HG2	1:F:90:LYS:HE2	2.00	0.43
1:A2:67:ARG:HH21	1:A2:118:VAL:HG23	1.83	0.43
1:A2:73:LEU:HD22	1:A2:129:VAL:HG11	2.01	0.43
1:A2:351:ILE:HD12	1:A:395:ILE:HG22	2.01	0.43
1:B2:396:HIS:HB2	1:B:361:ARG:NH2	2.34	0.43
1:B2:689:MET:HE3	1:B2:689:MET:HB2	1.96	0.43
1:B:95:GLU:O	1:B:99:LEU:HG	2.19	0.43
1:D:380:ASP:O	1:D:381:GLU:HG2	2.18	0.43
1:D:393:LYS:HA	1:G2:361:ARG:CZ	2.49	0.43
1:E:117:PRO:HG2	1:H:90:LYS:HE2	2.00	0.43
1:F:157:ARG:NH2	1:F:192:GLU:OE2	2.51	0.43
1:F:220:LEU:HD12	1:F:265:TYR:CE2	2.54	0.43
1:J:37:VAL:HG21	1:J:160:LEU:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:662:ILE:O	1:J:666:VAL:HG23	2.18	0.43
1:M:220:LEU:HD12	1:M:265:TYR:CE2	2.54	0.43
1:O:142:LYS:HA	1:O:153:GLU:HB2	2.01	0.43
1:P:38:GLY:CA	1:P:186:ALA:HB2	2.48	0.43
1:Q:37:VAL:HG21	1:Q:160:LEU:HD13	2.00	0.43
1:Q:157:ARG:NH2	1:Q:192:GLU:OE2	2.51	0.43
1:R:117:PRO:HG2	1:U:90:LYS:HE2	1.99	0.43
1:R:453:ARG:NH2	1:T:228:ARG:HG3	2.34	0.43
1:S:190:ALA:HB1	1:S:200:THR:HG21	2.01	0.43
1:T:65:THR:N	2:T:901:GCP:O3G	2.51	0.43
1:U:662:ILE:O	1:U:666:VAL:HG23	2.18	0.43
1:X:388:ILE:HG22	1:X:659:VAL:HG22	2.00	0.43
1:X:724:ARG:O	1:X:728:MET:HG2	2.19	0.43
1:Z:388:ILE:HG22	1:Z:659:VAL:HG22	2.00	0.43
1:Z:400:THR:OG1	1:F2:364:ARG:NH1	2.52	0.43
1:F2:363:ASN:HD21	1:F2:690:ILE:CD1	2.31	0.43
1:H2:95:GLU:O	1:H2:99:LEU:HG	2.19	0.43
1:I2:37:VAL:HG21	1:I2:160:LEU:HD13	2.00	0.43
1:C2:38:GLY:CA	1:C2:186:ALA:HB2	2.48	0.43
1:A2:364:ARG:NH1	1:J2:489:ASN:HD21	2.16	0.43
1:B2:220:LEU:HD12	1:B2:265:TYR:CE2	2.54	0.43
1:A:183:ASN:HA	1:B:142:LYS:HZ1	1.82	0.43
1:B:468:GLU:OE2	1:D:295:GLY:HA2	2.18	0.43
1:C:67:ARG:HH21	1:C:118:VAL:HG23	1.84	0.43
1:D:220:LEU:HD12	1:D:265:TYR:CE2	2.54	0.43
1:D:686:MET:HG2	1:D:690:ILE:CG1	2.48	0.43
1:H:95:GLU:O	1:H:99:LEU:HG	2.19	0.43
1:H:360:ALA:HB1	1:J:397:GLY:C	2.44	0.43
1:M:37:VAL:HG21	1:M:160:LEU:HD13	2.00	0.43
1:N:690:ILE:HA	1:N:693:THR:HG22	2.00	0.43
1:P:67:ARG:HH21	1:P:118:VAL:HG23	1.83	0.43
1:Q:662:ILE:O	1:Q:666:VAL:HG23	2.18	0.43
1:V:166:LYS:HE3	1:V:166:LYS:HB2	1.90	0.43
1:V:388:ILE:HG22	1:V:659:VAL:HG22	2.00	0.43
1:Y:157:ARG:NH2	1:Y:192:GLU:OE2	2.51	0.43
1:Y:662:ILE:O	1:Y:666:VAL:HG23	2.18	0.43
1:F2:690:ILE:HA	1:F2:693:THR:HG22	2.00	0.43
1:H2:686:MET:HG2	1:H2:690:ILE:CG1	2.48	0.43
1:D2:95:GLU:O	1:D2:99:LEU:HG	2.19	0.42
1:A:724:ARG:O	1:A:728:MET:HG2	2.19	0.42
1:B:686:MET:HE3	1:X:485:TYR:HD1	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:142:LYS:HA	1:D:153:GLU:HB2	2.01	0.42
1:E:38:GLY:CA	1:E:186:ALA:HB2	2.48	0.42
1:E:388:ILE:HG22	1:E:659:VAL:HG22	2.00	0.42
1:F:37:VAL:HG21	1:F:160:LEU:HD13	2.00	0.42
1:F:739:LEU:HD23	1:F:739:LEU:HA	1.84	0.42
1:G:13:VAL:HG11	1:G:130:LEU:HD22	2.01	0.42
1:G:237:ARG:O	2:G:901:GCP:O2'	2.34	0.42
1:H:361:ARG:HH21	1:J:396:HIS:HB2	1.83	0.42
1:I:364:ARG:NH1	1:S:489:ASN:HD21	2.17	0.42
1:I:724:ARG:O	1:I:728:MET:HG2	2.19	0.42
1:P:466:GLU:CD	1:R:297:ARG:HH22	2.25	0.42
1:P:488:THR:O	1:P:488:THR:HG22	2.19	0.42
1:Q:190:ALA:HB1	1:Q:200:THR:HG21	2.01	0.42
1:S:37:VAL:HG21	1:S:160:LEU:HD13	2.00	0.42
1:S:95:GLU:O	1:S:99:LEU:HG	2.19	0.42
1:U:190:ALA:HB1	1:U:200:THR:HG21	2.01	0.42
1:U:220:LEU:HD12	1:U:265:TYR:CE2	2.54	0.42
1:W:95:GLU:O	1:W:99:LEU:HG	2.19	0.42
1:X:117:PRO:HG2	1:E2:90:LYS:HE2	2.01	0.42
1:E2:142:LYS:HA	1:E2:153:GLU:HB2	2.01	0.42
1:E2:157:ARG:NH2	1:E2:192:GLU:OE2	2.51	0.42
1:H2:400:THR:CA	1:I2:364:ARG:HH21	2.20	0.42
1:I2:220:LEU:HD12	1:I2:265:TYR:CE2	2.54	0.42
1:C2:488:THR:HG22	1:C2:488:THR:O	2.19	0.42
1:B2:397:GLY:C	1:B:360:ALA:HB1	2.44	0.42
1:A:13:VAL:HG11	1:A:130:LEU:HD22	2.02	0.42
1:A:142:LYS:NZ	1:B:185:ASP:OD1	2.30	0.42
1:A:488:THR:O	1:A:488:THR:HG22	2.19	0.42
1:B:132:LEU:HD23	1:B:132:LEU:HA	1.86	0.42
1:E:73:LEU:HD22	1:E:129:VAL:HG11	2.01	0.42
1:F:95:GLU:O	1:F:99:LEU:HG	2.19	0.42
1:G:38:GLY:CA	1:G:186:ALA:HB2	2.48	0.42
1:H:142:LYS:HA	1:H:153:GLU:HB2	2.01	0.42
1:L:38:GLY:CA	1:L:186:ALA:HB2	2.48	0.42
1:M:190:ALA:HB1	1:M:200:THR:HG21	2.01	0.42
1:P:403:PHE:CG	1:H2:404:THR:OG1	2.70	0.42
1:Q:220:LEU:HD12	1:Q:265:TYR:CE2	2.54	0.42
1:R:79:GLU:OE2	1:R:128:HIS:NE2	2.49	0.42
1:R:724:ARG:O	1:R:728:MET:HG2	2.19	0.42
1:S:388:ILE:HG22	1:S:412:ILE:CG1	2.41	0.42
1:V:724:ARG:O	1:V:728:MET:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:724:ARG:O	1:W:727:GLU:HG3	2.20	0.42
1:Z:13:VAL:HG11	1:Z:130:LEU:HD22	2.01	0.42
1:F2:13:VAL:HG11	1:F2:130:LEU:HD22	2.01	0.42
1:F2:488:THR:HG22	1:F2:488:THR:O	2.19	0.42
1:F2:724:ARG:O	1:F2:728:MET:HG2	2.19	0.42
1:G2:142:LYS:HA	1:G2:153:GLU:HB2	2.01	0.42
1:G2:686:MET:HG2	1:G2:690:ILE:CG1	2.48	0.42
1:H2:132:LEU:HD23	1:H2:132:LEU:HA	1.86	0.42
1:H2:724:ARG:O	1:H2:727:GLU:HG3	2.20	0.42
1:I2:419:LYS:HB3	1:I2:419:LYS:HE2	1.88	0.42
1:J2:220:LEU:HD12	1:J2:265:TYR:CE2	2.54	0.42
1:C2:13:VAL:HG11	1:C2:130:LEU:HD22	2.02	0.42
1:C2:724:ARG:O	1:C2:728:MET:HG2	2.19	0.42
1:B2:95:GLU:O	1:B2:99:LEU:HG	2.19	0.42
1:B2:735:LEU:HD23	1:B2:735:LEU:HA	1.86	0.42
1:B:142:LYS:HA	1:B:153:GLU:HB2	2.01	0.42
1:B:220:LEU:HD12	1:B:265:TYR:CE2	2.54	0.42
1:C:690:ILE:HA	1:C:693:THR:HG22	2.00	0.42
1:G:488:THR:HG22	1:G:488:THR:O	2.19	0.42
1:H:37:VAL:HG21	1:H:160:LEU:HD13	2.00	0.42
1:I:13:VAL:HG11	1:I:130:LEU:HD22	2.02	0.42
1:J:724:ARG:O	1:J:727:GLU:HG3	2.20	0.42
1:K:127:PRO:HG2	1:K:128:HIS:CE1	2.55	0.42
1:M:227:LEU:HD12	1:M:227:LEU:HA	1.85	0.42
1:M:662:ILE:O	1:M:666:VAL:HG23	2.18	0.42
1:O:190:ALA:HB1	1:O:200:THR:HG21	2.01	0.42
1:P:127:PRO:HG2	1:P:128:HIS:CE1	2.55	0.42
1:P:457:GLU:O	1:P:461:THR:OG1	2.31	0.42
1:P:724:ARG:O	1:P:728:MET:HG2	2.19	0.42
1:R:127:PRO:HG2	1:R:128:HIS:CE1	2.55	0.42
1:S:724:ARG:O	1:S:727:GLU:HG3	2.20	0.42
1:T:127:PRO:HG2	1:T:128:HIS:CE1	2.55	0.42
1:U:37:VAL:HG21	1:U:160:LEU:HD13	2.00	0.42
1:W:220:LEU:HD12	1:W:265:TYR:CE2	2.54	0.42
1:W:662:ILE:O	1:W:666:VAL:HG23	2.18	0.42
1:X:67:ARG:HH21	1:X:118:VAL:HG23	1.83	0.42
1:Y:142:LYS:HA	1:Y:153:GLU:HB2	2.01	0.42
1:Y:220:LEU:HD12	1:Y:265:TYR:CE2	2.54	0.42
1:E2:724:ARG:O	1:E2:727:GLU:HG3	2.20	0.42
1:H2:220:LEU:HD12	1:H2:265:TYR:CE2	2.54	0.42
1:I2:157:ARG:NH2	1:I2:192:GLU:OE2	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I2:190:ALA:HB1	1:I2:200:THR:HG21	2.01	0.42
1:J2:298:ASN:C	1:J2:298:ASN:HD22	2.28	0.42
1:C2:364:ARG:HH12	1:M:489:ASN:HD21	1.66	0.42
1:A2:38:GLY:CA	1:A2:186:ALA:HB2	2.48	0.42
1:A2:356:LEU:HD11	1:A2:361:ARG:CG	2.50	0.42
1:A:297:ARG:HH22	1:C:466:GLU:CD	2.25	0.42
1:A:454:GLU:OE1	1:A:454:GLU:HA	2.20	0.42
1:D:95:GLU:O	1:D:99:LEU:HG	2.19	0.42
1:H:735:LEU:HD23	1:H:735:LEU:HA	1.86	0.42
1:I:41:SER:N	2:I:901:GCP:H3B1	2.28	0.42
1:I:103:ALA:O	1:I:107:ARG:HB2	2.20	0.42
1:J:190:ALA:HB1	1:J:200:THR:HG21	2.01	0.42
1:J:456:MET:HE3	1:J:456:MET:HB2	1.94	0.42
1:K:135:VAL:HG11	1:K:163:PHE:CD1	2.55	0.42
1:N:13:VAL:HG11	1:N:130:LEU:HD22	2.02	0.42
1:Q:142:LYS:HA	1:Q:153:GLU:HB2	2.01	0.42
1:R:398:ILE:HD12	1:T:344:ILE:HG23	2.01	0.42
1:R:485:TYR:CE1	1:H2:686:MET:CE	2.83	0.42
1:R:488:THR:HG22	1:R:488:THR:O	2.19	0.42
1:S:63:ILE:HG21	1:S:113:LYS:HB3	2.02	0.42
1:U:95:GLU:O	1:U:99:LEU:HG	2.19	0.42
1:V:13:VAL:HG11	1:V:130:LEU:HD22	2.01	0.42
1:W:190:ALA:HB1	1:W:200:THR:HG21	2.01	0.42
1:X:103:ALA:O	1:X:107:ARG:HB2	2.20	0.42
1:X:488:THR:O	1:X:488:THR:HG22	2.19	0.42
1:Y:140:MET:HE2	1:Y:140:MET:HB3	1.97	0.42
1:G2:95:GLU:O	1:G2:99:LEU:HG	2.19	0.42
1:G2:396:HIS:CB	1:H2:361:ARG:HH21	2.33	0.42
1:H2:397:GLY:C	1:I2:360:ALA:HB1	2.44	0.42
1:I2:456:MET:HE3	1:I2:456:MET:HB2	1.95	0.42
1:I2:686:MET:HG2	1:I2:690:ILE:CG1	2.48	0.42
1:J2:37:VAL:HG21	1:J2:160:LEU:HD13	2.00	0.42
1:C2:5:GLY:HA3	1:C2:282:ASN:HD22	1.85	0.42
1:C2:135:VAL:HG11	1:C2:163:PHE:CD1	2.55	0.42
1:B2:90:LYS:HE2	1:A:117:PRO:HG2	2.01	0.42
1:B2:724:ARG:O	1:B2:727:GLU:HG3	2.20	0.42
1:A:356:LEU:HD11	1:A:361:ARG:CG	2.50	0.42
1:C:13:VAL:HG11	1:C:130:LEU:HD22	2.01	0.42
1:C:73:LEU:HD22	1:C:129:VAL:HG11	2.01	0.42
1:C:454:GLU:OE1	1:C:454:GLU:HA	2.20	0.42
1:C:488:THR:O	1:C:488:THR:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:724:ARG:O	1:D:727:GLU:HG3	2.20	0.42
1:E:13:VAL:HG11	1:E:130:LEU:HD22	2.02	0.42
1:E:103:ALA:O	1:E:107:ARG:HB2	2.20	0.42
1:F:44:LYS:H	1:F:44:LYS:HG3	1.62	0.42
1:G:135:VAL:HG11	1:G:163:PHE:CD1	2.55	0.42
1:G:724:ARG:O	1:G:728:MET:HG2	2.19	0.42
1:H:662:ILE:O	1:H:666:VAL:HG23	2.18	0.42
1:I:135:VAL:HG11	1:I:163:PHE:CD1	2.55	0.42
1:J:95:GLU:O	1:J:99:LEU:HG	2.19	0.42
1:K:13:VAL:HG11	1:K:130:LEU:HD22	2.02	0.42
1:L:67:ARG:HH21	1:L:118:VAL:HG23	1.83	0.42
1:N:488:THR:O	1:N:488:THR:HG22	2.19	0.42
1:P:13:VAL:HG11	1:P:130:LEU:HD22	2.02	0.42
1:P:398:ILE:HD12	1:R:344:ILE:HG23	2.01	0.42
1:Q:384:LEU:O	1:Q:388:ILE:HG23	2.20	0.42
1:T:67:ARG:HH21	1:T:118:VAL:HG23	1.83	0.42
1:X:5:GLY:HA3	1:X:282:ASN:HD22	1.85	0.42
1:Y:190:ALA:HB1	1:Y:200:THR:HG21	2.01	0.42
1:Z:5:GLY:HA3	1:Z:282:ASN:HD22	1.85	0.42
1:E2:208:ASP:N	1:E2:208:ASP:OD1	2.46	0.42
1:G2:456:MET:HE3	1:G2:456:MET:HB2	1.94	0.42
1:H2:142:LYS:HA	1:H2:153:GLU:HB2	2.01	0.42
1:H2:384:LEU:O	1:H2:388:ILE:HG23	2.20	0.42
1:H2:689:MET:HE3	1:H2:689:MET:HB2	1.96	0.42
1:I2:380:ASP:O	1:I2:381:GLU:HG2	2.18	0.42
1:A2:135:VAL:HG11	1:A2:163:PHE:CD1	2.55	0.42
1:A2:488:THR:HG22	1:A2:488:THR:O	2.19	0.42
1:A2:724:ARG:O	1:A2:728:MET:HG2	2.19	0.42
1:B:724:ARG:O	1:B:727:GLU:HG3	2.20	0.42
1:C:724:ARG:O	1:C:728:MET:HG2	2.19	0.42
1:D:157:ARG:NH2	1:D:192:GLU:OE2	2.51	0.42
1:D:485:TYR:HB2	1:V:686:MET:HE3	2.02	0.42
1:E:488:THR:O	1:E:488:THR:HG22	2.19	0.42
1:H:361:ARG:NH2	1:J:396:HIS:HB2	2.35	0.42
1:H:724:ARG:O	1:H:727:GLU:HG3	2.20	0.42
1:L:13:VAL:HG11	1:L:130:LEU:HD22	2.02	0.42
1:L:127:PRO:HG2	1:L:128:HIS:CE1	2.55	0.42
1:L:690:ILE:HA	1:L:693:THR:HG22	2.00	0.42
1:M:63:ILE:HG21	1:M:113:LYS:HB3	2.02	0.42
1:N:103:ALA:O	1:N:107:ARG:HB2	2.20	0.42
1:Q:208:ASP:OD1	1:Q:208:ASP:N	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:662:ILE:O	1:S:666:VAL:HG23	2.18	0.42
1:T:13:VAL:HG11	1:T:130:LEU:HD22	2.02	0.42
1:T:103:ALA:O	1:T:107:ARG:HB2	2.20	0.42
1:U:361:ARG:HH22	1:W:393:LYS:HA	1.83	0.42
1:V:5:GLY:HA3	1:V:282:ASN:HD22	1.85	0.42
1:W:63:ILE:HG21	1:W:113:LYS:HB3	2.02	0.42
1:W:142:LYS:HA	1:W:153:GLU:HB2	2.01	0.42
1:Z:127:PRO:HG2	1:Z:128:HIS:CE1	2.55	0.42
1:Z:135:VAL:HG11	1:Z:163:PHE:CD1	2.55	0.42
1:F2:5:GLY:HA3	1:F2:282:ASN:HD22	1.85	0.42
1:F2:454:GLU:OE1	1:F2:454:GLU:HA	2.20	0.42
1:H2:339:ASP:OD1	1:H2:343:ARG:NH2	2.53	0.42
1:J2:95:GLU:O	1:J2:99:LEU:HG	2.19	0.42
1:J2:724:ARG:O	1:J2:727:GLU:HG3	2.20	0.42
1:D2:90:LYS:HE2	1:A2:117:PRO:HG2	2.01	0.42
1:D2:655:LEU:HD12	1:D2:655:LEU:HA	1.88	0.42
1:A2:228:ARG:HG3	1:A:453:ARG:NH2	2.35	0.42
1:A2:388:ILE:HG22	1:A2:659:VAL:HG22	2.00	0.42
1:A2:454:GLU:OE1	1:A2:454:GLU:HA	2.20	0.42
1:A:103:ALA:O	1:A:107:ARG:HB2	2.20	0.42
1:C:5:GLY:HA3	1:C:282:ASN:HD22	1.85	0.42
1:C:103:ALA:O	1:C:107:ARG:HB2	2.20	0.42
1:D:465:ARG:O	1:D:468:GLU:HG3	2.20	0.42
1:E:686:MET:HE1	1:O:485:TYR:CG	2.49	0.42
1:J:63:ILE:HG21	1:J:113:LYS:HB3	2.02	0.42
1:K:67:ARG:HH21	1:K:118:VAL:HG23	1.83	0.42
1:L:281:LEU:HA	1:L:281:LEU:HD23	1.80	0.42
1:N:73:LEU:HD22	1:N:129:VAL:HG11	2.01	0.42
1:O:63:ILE:HG21	1:O:113:LYS:HB3	2.02	0.42
1:O:339:ASP:OD1	1:O:343:ARG:NH2	2.53	0.42
1:R:73:LEU:HD22	1:R:129:VAL:HG11	2.01	0.42
1:R:681:MET:HE2	1:R:681:MET:HA	2.02	0.42
1:S:384:LEU:O	1:S:388:ILE:HG23	2.20	0.42
1:U:45:SER:OG	1:U:65:THR:OG1	2.37	0.42
1:Z:73:LEU:HD22	1:Z:129:VAL:HG11	2.01	0.42
1:Z:454:GLU:OE1	1:Z:454:GLU:HA	2.20	0.42
1:Z:488:THR:HG22	1:Z:488:THR:O	2.19	0.42
1:E2:339:ASP:OD1	1:E2:343:ARG:NH2	2.53	0.42
1:F2:103:ALA:O	1:F2:107:ARG:HB2	2.20	0.42
1:J2:190:ALA:HB1	1:J2:200:THR:HG21	2.01	0.42
1:D2:361:ARG:HH21	1:F:396:HIS:HB2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:13:VAL:HG11	1:A2:130:LEU:HD22	2.02	0.42
1:E:135:VAL:HG11	1:E:163:PHE:CD1	2.55	0.42
1:F:339:ASP:OD1	1:F:343:ARG:NH2	2.53	0.42
1:F:361:ARG:HH22	1:H:393:LYS:HA	1.83	0.42
1:G:67:ARG:HH21	1:G:118:VAL:HG23	1.83	0.42
1:I:73:LEU:HD22	1:I:129:VAL:HG11	2.01	0.42
1:I:488:THR:O	1:I:488:THR:HG22	2.19	0.42
1:J:339:ASP:OD1	1:J:343:ARG:NH2	2.53	0.42
1:O:384:LEU:O	1:O:388:ILE:HG23	2.20	0.42
1:O:456:MET:HE3	1:O:456:MET:HB2	1.94	0.42
1:O:724:ARG:O	1:O:727:GLU:HG3	2.20	0.42
1:Q:45:SER:OG	1:Q:65:THR:OG1	2.37	0.42
1:R:38:GLY:CA	1:R:186:ALA:HB2	2.48	0.42
1:R:67:ARG:NH1	1:R:104:GLU:OE2	2.43	0.42
1:S:339:ASP:OD1	1:S:343:ARG:NH2	2.53	0.42
1:T:5:GLY:HA3	1:T:282:ASN:HD22	1.85	0.42
1:T:724:ARG:O	1:T:728:MET:HG2	2.19	0.42
1:U:384:LEU:O	1:U:388:ILE:HG23	2.20	0.42
1:W:339:ASP:OD1	1:W:343:ARG:NH2	2.53	0.42
1:X:13:VAL:HG11	1:X:130:LEU:HD22	2.02	0.42
1:Z:356:LEU:HD11	1:Z:361:ARG:CG	2.50	0.42
1:F2:356:LEU:HD11	1:F2:361:ARG:CG	2.50	0.42
1:G2:384:LEU:O	1:G2:388:ILE:HG23	2.20	0.42
1:H2:190:ALA:HB1	1:H2:200:THR:HG21	2.01	0.42
1:I2:142:LYS:HA	1:I2:153:GLU:HB2	2.01	0.42
1:I2:384:LEU:O	1:I2:388:ILE:HG23	2.20	0.42
1:C2:356:LEU:HD11	1:C2:361:ARG:CG	2.50	0.42
1:D2:465:ARG:O	1:D2:468:GLU:HG3	2.20	0.42
1:B2:142:LYS:HA	1:B2:153:GLU:HB2	2.01	0.42
1:D:339:ASP:OD1	1:D:343:ARG:NH2	2.53	0.42
1:G:489:ASN:HD22	1:Q:368:GLU:HG2	1.85	0.42
1:H:63:ILE:HG21	1:H:113:LYS:HB3	2.02	0.42
1:H:298:ASN:C	1:H:298:ASN:HD22	2.27	0.42
1:H:360:ALA:HB1	1:J:397:GLY:HA2	2.01	0.42
1:H:384:LEU:O	1:H:388:ILE:HG23	2.20	0.42
1:I:127:PRO:HG2	1:I:128:HIS:CE1	2.54	0.42
1:I:454:GLU:OE1	1:I:454:GLU:HA	2.20	0.42
1:J:384:LEU:O	1:J:388:ILE:HG23	2.20	0.42
1:N:281:LEU:HA	1:N:281:LEU:HD23	1.80	0.42
1:P:103:ALA:O	1:P:107:ARG:HB2	2.20	0.42
1:R:5:GLY:HA3	1:R:282:ASN:HD22	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:65:THR:N	2:R:901:GCP:O3G	2.51	0.42
1:U:227:LEU:HD12	1:U:227:LEU:HA	1.85	0.42
1:V:135:VAL:HG11	1:V:163:PHE:CD1	2.55	0.42
1:X:127:PRO:HG2	1:X:128:HIS:CE1	2.55	0.42
1:X:135:VAL:HG11	1:X:163:PHE:CD1	2.55	0.42
1:G2:378:GLU:CD	1:G2:379:PHE:H	2.28	0.42
1:G2:388:ILE:CG2	1:G2:412:ILE:HG13	2.44	0.42
1:H2:208:ASP:OD1	1:H2:208:ASP:N	2.46	0.42
1:I2:378:GLU:CD	1:I2:379:PHE:H	2.28	0.42
1:C2:681:MET:HE2	1:C2:681:MET:HA	2.02	0.42
1:C2:686:MET:HE3	1:M:485:TYR:HB2	2.02	0.42
1:D2:220:LEU:HD12	1:D2:265:TYR:CE2	2.54	0.42
1:D2:724:ARG:O	1:D2:727:GLU:HG3	2.20	0.42
1:A2:83:PHE:CE1	1:A2:122:LEU:HD12	2.55	0.42
1:B2:339:ASP:OD1	1:B2:343:ARG:NH2	2.53	0.42
1:B2:378:GLU:CD	1:B2:379:PHE:H	2.28	0.42
1:B2:388:ILE:CG2	1:B2:412:ILE:HG13	2.44	0.42
1:A:127:PRO:HG2	1:A:128:HIS:CE1	2.55	0.42
1:C:135:VAL:HG11	1:C:163:PHE:CD1	2.55	0.42
1:F:142:LYS:HA	1:F:153:GLU:HB2	2.01	0.42
1:F:378:GLU:CD	1:F:379:PHE:H	2.28	0.42
1:F:456:MET:HE3	1:F:456:MET:HB2	1.94	0.42
1:G:364:ARG:NH1	1:Q:489:ASN:HD21	2.17	0.42
1:H:93:ASP:OD1	1:H:93:ASP:N	2.47	0.42
1:I:356:LEU:HD11	1:I:361:ARG:CG	2.50	0.42
1:I:453:ARG:NH2	1:K:228:ARG:HG3	2.35	0.42
1:K:41:SER:N	2:K:901:GCP:H3B1	2.28	0.42
1:K:281:LEU:HD23	1:K:281:LEU:HA	1.80	0.42
1:L:103:ALA:O	1:L:107:ARG:HB2	2.20	0.42
1:L:454:GLU:OE1	1:L:454:GLU:HA	2.20	0.42
1:M:378:GLU:CD	1:M:379:PHE:H	2.28	0.42
1:N:127:PRO:HG2	1:N:128:HIS:CE1	2.55	0.42
1:P:44:LYS:HZ2	1:P:139:GLY:HA2	1.85	0.42
1:Q:63:ILE:HG21	1:Q:113:LYS:HB3	2.02	0.42
1:Q:419:LYS:HB3	1:Q:419:LYS:HE2	1.88	0.42
1:R:13:VAL:HG11	1:R:130:LEU:HD22	2.02	0.42
1:R:454:GLU:OE1	1:R:454:GLU:HA	2.20	0.42
1:S:220:LEU:HD12	1:S:265:TYR:CE2	2.54	0.42
1:T:135:VAL:HG11	1:T:163:PHE:CD1	2.55	0.42
1:U:689:MET:HE3	1:U:689:MET:HB2	1.96	0.42
1:V:127:PRO:HG2	1:V:128:HIS:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:271:ARG:HE	1:V:271:ARG:HB3	1.66	0.42
1:V:681:MET:HE2	1:V:681:MET:HA	2.02	0.42
1:W:378:GLU:CD	1:W:379:PHE:H	2.28	0.42
1:X:356:LEU:HD11	1:X:361:ARG:CG	2.50	0.42
1:Z:391:ALA:HB2	1:F2:353:THR:HG22	2.01	0.42
1:E2:132:LEU:HD23	1:E2:132:LEU:HA	1.86	0.42
1:E2:465:ARG:O	1:E2:468:GLU:HG3	2.20	0.42
1:J2:132:LEU:HD23	1:J2:132:LEU:HA	1.86	0.42
1:J2:339:ASP:OD1	1:J2:343:ARG:NH2	2.53	0.42
1:C2:103:ALA:O	1:C2:107:ARG:HB2	2.20	0.41
1:C2:183:ASN:HA	1:D2:142:LYS:HZ1	1.84	0.41
1:C2:453:ARG:NH2	1:E:228:ARG:HG3	2.35	0.41
1:C2:454:GLU:OE1	1:C2:454:GLU:HA	2.20	0.41
1:A2:127:PRO:HG2	1:A2:128:HIS:CE1	2.55	0.41
1:A2:271:ARG:HE	1:A2:271:ARG:HB3	1.66	0.41
1:B2:216:ALA:H	1:B2:265:TYR:HH	1.63	0.41
1:B2:399:ARG:H	1:B2:399:ARG:HG2	1.64	0.41
1:B:339:ASP:OD1	1:B:343:ARG:NH2	2.53	0.41
1:C:356:LEU:HD11	1:C:361:ARG:CG	2.50	0.41
1:E:127:PRO:HG2	1:E:128:HIS:CE1	2.55	0.41
1:E:142:LYS:NZ	1:F:185:ASP:OD1	2.30	0.41
1:E:403:PHE:CG	1:Q:404:THR:OG1	2.72	0.41
1:E:654:GLN:HG3	1:E:657:ARG:HH21	1.85	0.41
1:F:190:ALA:HB1	1:F:200:THR:HG21	2.01	0.41
1:G:356:LEU:HD11	1:G:361:ARG:CG	2.50	0.41
1:L:135:VAL:HG11	1:L:163:PHE:CD1	2.55	0.41
1:L:411:THR:HG23	1:N:350:GLN:CD	2.45	0.41
1:L:654:GLN:HG3	1:L:657:ARG:HH21	1.85	0.41
1:N:457:GLU:O	1:N:461:THR:OG1	2.31	0.41
1:N:724:ARG:O	1:N:728:MET:HG2	2.19	0.41
1:P:5:GLY:HA3	1:P:282:ASN:HD22	1.85	0.41
1:Q:427:CYS:SG	1:Q:681:MET:HE1	2.60	0.41
1:R:103:ALA:O	1:R:107:ARG:HB2	2.20	0.41
1:T:166:LYS:HE3	1:T:166:LYS:HB2	1.90	0.41
1:T:281:LEU:HD23	1:T:281:LEU:HA	1.80	0.41
1:U:142:LYS:HA	1:U:153:GLU:HB2	2.01	0.41
1:U:427:CYS:SG	1:U:681:MET:HE1	2.60	0.41
1:W:54:ARG:HD3	1:W:94:PHE:CZ	2.55	0.41
1:X:206:LYS:HG2	2:X:901:GCP:C5	2.50	0.41
1:X:454:GLU:HA	1:X:454:GLU:OE1	2.20	0.41
1:E2:190:ALA:HB1	1:E2:200:THR:HG21	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E2:378:GLU:CD	1:E2:379:PHE:H	2.28	0.41
1:E2:384:LEU:O	1:E2:388:ILE:HG23	2.20	0.41
1:F2:83:PHE:CE1	1:F2:122:LEU:HD12	2.56	0.41
1:F2:135:VAL:HG11	1:F2:163:PHE:CD1	2.55	0.41
1:G2:398:ILE:HG12	1:H2:344:ILE:O	2.19	0.41
1:I2:427:CYS:SG	1:I2:681:MET:HE1	2.60	0.41
1:C2:687:HIS:HB2	1:M:484:ALA:CB	2.46	0.41
1:D2:339:ASP:OD1	1:D2:343:ARG:NH2	2.53	0.41
1:A2:103:ALA:O	1:A2:107:ARG:HB2	2.20	0.41
1:A:38:GLY:CA	1:A:186:ALA:HB2	2.48	0.41
1:A:83:PHE:CE1	1:A:122:LEU:HD12	2.55	0.41
1:E:453:ARG:NH2	1:G:228:ARG:HG3	2.35	0.41
1:F:118:VAL:HA	1:F:119:PRO:HD3	1.90	0.41
1:H:190:ALA:HB1	1:H:200:THR:HG21	2.01	0.41
1:H:378:GLU:CD	1:H:379:PHE:H	2.28	0.41
1:I:5:GLY:HA3	1:I:282:ASN:HD22	1.85	0.41
1:I:395:ILE:HG22	1:K:351:ILE:HD12	2.02	0.41
1:K:103:ALA:O	1:K:107:ARG:HB2	2.20	0.41
1:K:356:LEU:HD11	1:K:361:ARG:CG	2.50	0.41
1:K:488:THR:O	1:K:488:THR:HG22	2.19	0.41
1:L:488:THR:O	1:L:488:THR:HG22	2.19	0.41
1:M:388:ILE:CG2	1:M:412:ILE:HG13	2.44	0.41
1:N:411:THR:HG23	1:P:350:GLN:OE1	2.20	0.41
1:N:681:MET:HE2	1:N:681:MET:HA	2.02	0.41
1:Q:378:GLU:CD	1:Q:379:PHE:H	2.28	0.41
1:S:142:LYS:HA	1:S:153:GLU:HB2	2.01	0.41
1:S:378:GLU:CD	1:S:379:PHE:H	2.28	0.41
1:T:654:GLN:HG3	1:T:657:ARG:HH21	1.85	0.41
1:T:681:MET:HE2	1:T:681:MET:HA	2.02	0.41
1:U:378:GLU:CD	1:U:379:PHE:H	2.28	0.41
1:V:206:LYS:HG2	2:V:901:GCP:C5	2.50	0.41
1:V:256:ARG:HA	1:V:256:ARG:HD2	1.92	0.41
1:Y:378:GLU:CD	1:Y:379:PHE:H	2.28	0.41
1:Z:83:PHE:CE1	1:Z:122:LEU:HD12	2.56	0.41
1:E2:63:ILE:HG21	1:E2:113:LYS:HB3	2.02	0.41
1:F2:79:GLU:OE2	1:F2:128:HIS:NE2	2.49	0.41
1:G2:427:CYS:SG	1:G2:681:MET:HE1	2.60	0.41
1:H2:63:ILE:HG21	1:H2:113:LYS:HB3	2.02	0.41
1:H2:427:CYS:SG	1:H2:681:MET:HE1	2.60	0.41
1:J2:63:ILE:HG21	1:J2:113:LYS:HB3	2.02	0.41
1:J2:662:ILE:O	1:J2:666:VAL:HG23	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C2:398:ILE:HD12	1:E:344:ILE:HG23	2.02	0.41
1:D2:140:MET:HE2	1:D2:140:MET:HB3	1.97	0.41
1:D2:427:CYS:SG	1:D2:681:MET:HE1	2.60	0.41
1:A2:5:GLY:HA3	1:A2:282:ASN:HD22	1.85	0.41
1:A2:681:MET:HA	1:A2:681:MET:HE2	2.02	0.41
1:B2:190:ALA:HB1	1:B2:200:THR:HG21	2.01	0.41
1:B2:329:LEU:HB2	1:B2:715:MET:SD	2.61	0.41
1:B2:427:CYS:SG	1:B2:681:MET:HE1	2.60	0.41
1:B2:456:MET:HE3	1:B2:456:MET:HB2	1.94	0.41
1:E:44:LYS:HZ2	1:E:139:GLY:HA2	1.85	0.41
1:E:281:LEU:HD23	1:E:281:LEU:HA	1.80	0.41
1:E:681:MET:HA	1:E:681:MET:HE2	2.02	0.41
1:G:103:ALA:O	1:G:107:ARG:HB2	2.20	0.41
1:G:183:ASN:HA	1:H:142:LYS:HZ1	1.85	0.41
1:G:686:MET:HE3	1:Q:485:TYR:HB2	2.01	0.41
1:H:339:ASP:OD1	1:H:343:ARG:NH2	2.53	0.41
1:I:489:ASN:HD22	1:S:368:GLU:HG2	1.86	0.41
1:J:132:LEU:HD23	1:J:132:LEU:HA	1.86	0.41
1:J:735:LEU:HD23	1:J:735:LEU:HA	1.86	0.41
1:K:454:GLU:OE1	1:K:454:GLU:HA	2.20	0.41
1:K:681:MET:HE2	1:K:681:MET:HA	2.02	0.41
1:M:427:CYS:SG	1:M:681:MET:HE1	2.60	0.41
1:O:329:LEU:HB2	1:O:715:MET:SD	2.61	0.41
1:P:454:GLU:HA	1:P:454:GLU:OE1	2.20	0.41
1:P:681:MET:HE2	1:P:681:MET:HA	2.02	0.41
1:Q:724:ARG:O	1:Q:727:GLU:HG3	2.20	0.41
1:R:135:VAL:HG11	1:R:163:PHE:CD1	2.55	0.41
1:S:456:MET:HE3	1:S:456:MET:HB2	1.94	0.41
1:T:488:THR:O	1:T:488:THR:HG22	2.19	0.41
1:U:54:ARG:HD3	1:U:94:PHE:CZ	2.55	0.41
1:V:73:LEU:HD22	1:V:129:VAL:HG11	2.01	0.41
1:V:83:PHE:CE1	1:V:122:LEU:HD12	2.55	0.41
1:V:103:ALA:O	1:V:107:ARG:HB2	2.20	0.41
1:X:44:LYS:HZ2	1:X:139:GLY:HA2	1.84	0.41
1:X:83:PHE:CE1	1:X:122:LEU:HD12	2.56	0.41
1:X:395:ILE:HG22	1:Z:351:ILE:HD12	2.02	0.41
1:Y:427:CYS:SG	1:Y:681:MET:HE1	2.61	0.41
1:Y:456:MET:HE3	1:Y:456:MET:HB2	1.94	0.41
1:Y:739:LEU:HD23	1:Y:739:LEU:HA	1.84	0.41
1:Z:103:ALA:O	1:Z:107:ARG:HB2	2.20	0.41
1:E2:140:MET:HE2	1:E2:140:MET:HB3	1.97	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G2:54:ARG:HD3	1:G2:94:PHE:CZ	2.55	0.41
1:I2:198:GLN:O	1:I2:229:ARG:NH1	2.54	0.41
1:C2:256:ARG:HA	1:C2:256:ARG:HD2	1.92	0.41
1:D2:329:LEU:HB2	1:D2:715:MET:SD	2.61	0.41
1:D2:361:ARG:HH21	1:F:396:HIS:CB	2.33	0.41
1:A2:297:ARG:HH22	1:A:466:GLU:CD	2.27	0.41
1:B2:198:GLN:O	1:B2:229:ARG:NH1	2.54	0.41
1:A:654:GLN:HG3	1:A:657:ARG:HH21	1.85	0.41
1:B:198:GLN:O	1:B:229:ARG:NH1	2.54	0.41
1:B:378:GLU:CD	1:B:379:PHE:H	2.28	0.41
1:B:384:LEU:O	1:B:388:ILE:HG23	2.20	0.41
1:B:702:LEU:HD12	1:Z:330:LEU:CD1	2.45	0.41
1:D:190:ALA:HB1	1:D:200:THR:HG21	2.01	0.41
1:E:5:GLY:HA3	1:E:282:ASN:HD22	1.85	0.41
1:E:160:LEU:O	1:E:164:VAL:HG22	2.21	0.41
1:E:183:ASN:HA	1:F:142:LYS:HZ1	1.85	0.41
1:E:303:GLN:NE2	1:E:731:MET:HE2	2.36	0.41
1:F:427:CYS:SG	1:F:681:MET:HE1	2.60	0.41
1:F:724:ARG:O	1:F:727:GLU:HG3	2.20	0.41
1:G:6:MET:HG2	1:G:130:LEU:HG	2.03	0.41
1:G:160:LEU:O	1:G:164:VAL:HG22	2.21	0.41
1:G:454:GLU:OE1	1:G:454:GLU:HA	2.20	0.41
1:H:329:LEU:HB2	1:H:715:MET:SD	2.61	0.41
1:K:5:GLY:HA3	1:K:282:ASN:HD22	1.85	0.41
1:L:356:LEU:HD11	1:L:361:ARG:CG	2.50	0.41
1:M:339:ASP:OD1	1:M:343:ARG:NH2	2.53	0.41
1:M:456:MET:HE3	1:M:456:MET:HB2	1.94	0.41
1:N:135:VAL:HG11	1:N:163:PHE:CD1	2.55	0.41
1:N:390:TYR:CD1	1:P:355:GLU:O	2.74	0.41
1:N:654:GLN:HG3	1:N:657:ARG:HH21	1.85	0.41
1:R:654:GLN:HG3	1:R:657:ARG:HH21	1.85	0.41
1:T:38:GLY:CA	1:T:186:ALA:HB2	2.48	0.41
1:T:160:LEU:O	1:T:164:VAL:HG22	2.21	0.41
1:T:356:LEU:HD11	1:T:361:ARG:CG	2.50	0.41
1:U:198:GLN:O	1:U:229:ARG:NH1	2.54	0.41
1:U:339:ASP:OD1	1:U:343:ARG:NH2	2.53	0.41
1:V:38:GLY:CA	1:V:186:ALA:HB2	2.48	0.41
1:V:454:GLU:OE1	1:V:454:GLU:HA	2.20	0.41
1:W:329:LEU:HB2	1:W:715:MET:SD	2.61	0.41
1:W:427:CYS:SG	1:W:681:MET:HE1	2.60	0.41
1:Y:54:ARG:HD3	1:Y:94:PHE:CZ	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:329:LEU:HB2	1:Y:715:MET:SD	2.61	0.41
1:Y:465:ARG:O	1:Y:468:GLU:HG3	2.20	0.41
1:Z:183:ASN:HA	1:E2:142:LYS:HZ1	1.84	0.41
1:G2:140:MET:HE2	1:G2:140:MET:HB3	1.97	0.41
1:G2:190:ALA:HB1	1:G2:200:THR:HG21	2.01	0.41
1:G2:465:ARG:O	1:G2:468:GLU:HG3	2.20	0.41
1:I2:724:ARG:O	1:I2:727:GLU:HG3	2.20	0.41
1:J2:54:ARG:HD3	1:J2:94:PHE:CZ	2.56	0.41
1:C2:83:PHE:CE1	1:C2:122:LEU:HD12	2.56	0.41
1:C2:654:GLN:HG3	1:C2:657:ARG:HH21	1.85	0.41
1:D2:142:LYS:HA	1:D2:153:GLU:HB2	2.01	0.41
1:B2:384:LEU:O	1:B2:388:ILE:HG23	2.20	0.41
1:B2:465:ARG:O	1:B2:468:GLU:HG3	2.20	0.41
1:B:427:CYS:SG	1:B:681:MET:HE1	2.60	0.41
1:B:465:ARG:O	1:B:468:GLU:HG3	2.20	0.41
1:C:127:PRO:HG2	1:C:128:HIS:CE1	2.55	0.41
1:D:54:ARG:HD3	1:D:94:PHE:CZ	2.55	0.41
1:D:384:LEU:O	1:D:388:ILE:HG23	2.20	0.41
1:E:305:LEU:HA	1:E:308:GLU:CD	2.46	0.41
1:E:454:GLU:HA	1:E:454:GLU:OE1	2.20	0.41
1:F:63:ILE:HG21	1:F:113:LYS:HB3	2.02	0.41
1:G:321:ASP:CG	1:G:324:ARG:HD2	2.46	0.41
1:H:211:ASP:OD1	1:H:212:GLU:N	2.54	0.41
1:H:427:CYS:SG	1:H:681:MET:HE1	2.60	0.41
1:I:6:MET:HG2	1:I:130:LEU:HG	2.03	0.41
1:I:281:LEU:HA	1:I:281:LEU:HD23	1.80	0.41
1:I:654:GLN:HG3	1:I:657:ARG:HH21	1.85	0.41
1:J:198:GLN:O	1:J:229:ARG:NH1	2.54	0.41
1:K:6:MET:HG2	1:K:130:LEU:HG	2.03	0.41
1:K:654:GLN:HG3	1:K:657:ARG:HH21	1.86	0.41
1:M:361:ARG:HH21	1:O:396:HIS:HB2	1.84	0.41
1:M:384:LEU:O	1:M:388:ILE:HG23	2.20	0.41
1:P:83:PHE:CE1	1:P:122:LEU:HD12	2.55	0.41
1:R:321:ASP:CG	1:R:324:ARG:HD2	2.46	0.41
1:S:220:LEU:HD23	1:S:220:LEU:HA	1.90	0.41
1:S:298:ASN:C	1:S:298:ASN:HD22	2.27	0.41
1:T:454:GLU:OE1	1:T:454:GLU:HA	2.20	0.41
1:T:687:HIS:CD2	1:G2:480:ASP:O	2.73	0.41
1:U:329:LEU:HB2	1:U:715:MET:SD	2.61	0.41
1:U:724:ARG:O	1:U:727:GLU:HG3	2.20	0.41
1:V:6:MET:HG2	1:V:130:LEU:HG	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:160:LEU:O	1:V:164:VAL:HG22	2.21	0.41
1:V:303:GLN:NE2	1:V:731:MET:HE2	2.36	0.41
1:V:356:LEU:HD11	1:V:361:ARG:CG	2.50	0.41
1:W:271:ARG:O	1:W:272:MET:HE2	2.21	0.41
1:W:384:LEU:O	1:W:388:ILE:HG23	2.20	0.41
1:X:681:MET:HA	1:X:681:MET:HE2	2.02	0.41
1:E2:427:CYS:SG	1:E2:681:MET:HE1	2.60	0.41
1:F2:38:GLY:CA	1:F2:186:ALA:HB2	2.48	0.41
1:G2:59:ARG:NH2	1:G2:242:ILE:HG12	2.36	0.41
1:G2:724:ARG:O	1:G2:727:GLU:HG3	2.20	0.41
1:J2:378:GLU:CD	1:J2:379:PHE:H	2.28	0.41
1:D2:190:ALA:HB1	1:D2:200:THR:HG21	2.01	0.41
1:D2:686:MET:CE	1:F2:485:TYR:HD1	2.24	0.41
1:A2:44:LYS:HZ2	1:A2:139:GLY:HA2	1.86	0.41
1:A:5:GLY:HA3	1:A:282:ASN:HD22	1.85	0.41
1:B:54:ARG:HD3	1:B:94:PHE:CZ	2.55	0.41
1:B:329:LEU:HB2	1:B:715:MET:SD	2.61	0.41
1:C:206:LYS:HG2	2:C:901:GCP:C5	2.50	0.41
1:D:427:CYS:SG	1:D:681:MET:HE1	2.60	0.41
1:E:6:MET:HG2	1:E:130:LEU:HG	2.03	0.41
1:F:227:LEU:HD12	1:F:227:LEU:HA	1.84	0.41
1:F:465:ARG:O	1:F:468:GLU:HG3	2.20	0.41
1:G:403:PHE:CG	1:S:404:THR:OG1	2.73	0.41
1:H:198:GLN:O	1:H:229:ARG:NH1	2.54	0.41
1:I:160:LEU:O	1:I:164:VAL:HG22	2.21	0.41
1:I:466:GLU:CD	1:K:297:ARG:HH22	2.25	0.41
1:J:378:GLU:CD	1:J:379:PHE:H	2.28	0.41
1:K:303:GLN:NE2	1:K:731:MET:HE2	2.36	0.41
1:L:5:GLY:HA3	1:L:282:ASN:HD22	1.85	0.41
1:L:407:MET:HE2	1:N:350:GLN:N	2.27	0.41
1:M:198:GLN:O	1:M:229:ARG:NH1	2.54	0.41
1:M:724:ARG:O	1:M:727:GLU:HG3	2.20	0.41
1:N:454:GLU:OE1	1:N:454:GLU:HA	2.20	0.41
1:N:656:GLU:OE1	1:N:656:GLU:HA	2.21	0.41
1:P:303:GLN:NE2	1:P:731:MET:HE2	2.36	0.41
1:P:656:GLU:OE1	1:P:656:GLU:HA	2.21	0.41
1:Q:329:LEU:HB2	1:Q:715:MET:SD	2.61	0.41
1:R:6:MET:HG2	1:R:130:LEU:HG	2.03	0.41
1:R:17:GLN:NE2	1:R:21:SER:OG	2.54	0.41
1:R:160:LEU:O	1:R:164:VAL:HG22	2.21	0.41
1:S:216:ALA:H	1:S:265:TYR:HH	1.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:427:CYS:SG	1:S:681:MET:HE1	2.61	0.41
1:T:6:MET:HG2	1:T:130:LEU:HG	2.03	0.41
1:U:271:ARG:O	1:U:272:MET:HE2	2.21	0.41
1:W:198:GLN:O	1:W:229:ARG:NH1	2.54	0.41
1:W:465:ARG:O	1:W:468:GLU:HG3	2.20	0.41
1:X:6:MET:HG2	1:X:130:LEU:HG	2.03	0.41
1:X:38:GLY:CA	1:X:186:ALA:HB2	2.48	0.41
1:X:303:GLN:NE2	1:X:731:MET:HE2	2.36	0.41
1:X:436:ILE:HG23	1:X:461:THR:HG22	2.03	0.41
1:Y:59:ARG:NH2	1:Y:242:ILE:HG12	2.36	0.41
1:Z:654:GLN:HG3	1:Z:657:ARG:HH21	1.85	0.41
1:E2:211:ASP:OD1	1:E2:212:GLU:N	2.54	0.41
1:F2:127:PRO:HG2	1:F2:128:HIS:CE1	2.55	0.41
1:G2:339:ASP:OD1	1:G2:343:ARG:NH2	2.53	0.41
1:H2:378:GLU:CD	1:H2:379:PHE:H	2.28	0.41
1:I2:59:ARG:NH2	1:I2:242:ILE:HG12	2.36	0.41
1:I2:337:ALA:O	1:I2:341:GLU:OE1	2.39	0.41
1:J2:384:LEU:O	1:J2:388:ILE:HG23	2.20	0.41
1:C2:127:PRO:HG2	1:C2:128:HIS:CE1	2.55	0.41
1:C2:305:LEU:HA	1:C2:308:GLU:CD	2.46	0.41
1:D2:63:ILE:HG21	1:D2:113:LYS:HB3	2.02	0.41
1:A2:687:HIS:HB2	1:J2:484:ALA:CB	2.50	0.41
1:B2:54:ARG:HD3	1:B2:94:PHE:CZ	2.56	0.41
1:B2:485:TYR:HB3	1:Z:683:LYS:HG2	2.02	0.41
1:A:135:VAL:HG11	1:A:163:PHE:CD1	2.55	0.41
1:A:228:ARG:HG3	1:C:453:ARG:NH2	2.35	0.41
1:A:256:ARG:HA	1:A:256:ARG:HD2	1.92	0.41
1:A:303:GLN:NE2	1:A:731:MET:HE2	2.36	0.41
1:B:190:ALA:HB1	1:B:200:THR:HG21	2.01	0.41
1:C:654:GLN:HG3	1:C:657:ARG:HH21	1.85	0.41
1:D:456:MET:HE3	1:D:456:MET:HB2	1.94	0.41
1:E:321:ASP:CG	1:E:324:ARG:HD2	2.46	0.41
1:F:211:ASP:OD1	1:F:212:GLU:N	2.54	0.41
1:F:329:LEU:HB2	1:F:715:MET:SD	2.61	0.41
1:G:127:PRO:HG2	1:G:128:HIS:CE1	2.55	0.41
1:G:303:GLN:NE2	1:G:731:MET:HE2	2.36	0.41
1:J:211:ASP:OD1	1:J:212:GLU:N	2.54	0.41
1:J:329:LEU:HB2	1:J:715:MET:SD	2.61	0.41
1:K:44:LYS:H	1:K:44:LYS:HG3	1.71	0.41
1:K:223:LYS:HB2	1:K:223:LYS:HE3	1.72	0.41
1:P:6:MET:HG2	1:P:130:LEU:HG	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:135:VAL:HG11	1:P:163:PHE:CD1	2.55	0.41
1:P:356:LEU:HD11	1:P:361:ARG:CG	2.50	0.41
1:Q:132:LEU:HD23	1:Q:132:LEU:HA	1.86	0.41
1:S:271:ARG:O	1:S:272:MET:HE2	2.21	0.41
1:S:329:LEU:HB2	1:S:715:MET:SD	2.61	0.41
1:T:83:PHE:CE1	1:T:122:LEU:HD12	2.56	0.41
1:T:398:ILE:HD12	1:V:344:ILE:HG23	2.03	0.41
1:U:59:ARG:NH2	1:U:242:ILE:HG12	2.36	0.41
1:U:63:ILE:HG21	1:U:113:LYS:HB3	2.02	0.41
1:V:216:ALA:N	1:V:265:TYR:OH	2.54	0.41
1:W:59:ARG:NH2	1:W:242:ILE:HG12	2.36	0.41
1:Y:271:ARG:O	1:Y:272:MET:HE2	2.21	0.41
1:Y:724:ARG:O	1:Y:727:GLU:HG3	2.20	0.41
1:Z:38:GLY:CA	1:Z:186:ALA:HB2	2.48	0.41
1:F2:394:ASN:OD1	1:F2:394:ASN:C	2.64	0.41
1:G2:337:ALA:O	1:G2:341:GLU:OE1	2.39	0.41
1:G2:396:HIS:HB2	1:H2:361:ARG:HH21	1.85	0.41
1:H2:10:ILE:HA	1:H2:11:PRO:HD3	1.92	0.41
1:H2:54:ARG:HD3	1:H2:94:PHE:CZ	2.55	0.41
1:H2:211:ASP:OD1	1:H2:212:GLU:N	2.54	0.41
1:H2:220:LEU:HD23	1:H2:220:LEU:HA	1.90	0.41
1:H2:337:ALA:O	1:H2:341:GLU:OE1	2.39	0.41
1:I2:465:ARG:O	1:I2:468:GLU:HG3	2.20	0.41
1:J2:427:CYS:SG	1:J2:681:MET:HE1	2.60	0.41
1:C2:6:MET:HG2	1:C2:130:LEU:HG	2.03	0.41
1:C2:303:GLN:NE2	1:C2:731:MET:HE2	2.36	0.41
1:C2:466:GLU:CD	1:E:297:ARG:HH22	2.25	0.41
1:D2:271:ARG:O	1:D2:272:MET:HE2	2.21	0.41
1:A:206:LYS:HG2	2:A:901:GCP:C5	2.50	0.41
1:A:223:LYS:HB2	1:A:223:LYS:HE3	1.72	0.41
1:A:681:MET:HE2	1:A:681:MET:HA	2.02	0.41
1:B:419:LYS:HB3	1:B:419:LYS:HE2	1.88	0.41
1:C:83:PHE:CE1	1:C:122:LEU:HD12	2.56	0.41
1:C:160:LEU:O	1:C:164:VAL:HG22	2.21	0.41
1:D:63:ILE:HG21	1:D:113:LYS:HB3	2.02	0.41
1:D:337:ALA:O	1:D:341:GLU:OE1	2.39	0.41
1:D:378:GLU:CD	1:D:379:PHE:H	2.28	0.41
1:E:356:LEU:HD11	1:E:361:ARG:CG	2.50	0.41
1:F:271:ARG:O	1:F:272:MET:HE2	2.21	0.41
1:G:206:LYS:HG2	2:G:901:GCP:C5	2.50	0.41
1:G:223:LYS:HB2	1:G:223:LYS:HE3	1.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:281:LEU:HA	1:G:281:LEU:HD23	1.80	0.41
1:G:681:MET:HE2	1:G:681:MET:HA	2.02	0.41
1:H:739:LEU:HD23	1:H:739:LEU:HA	1.84	0.41
1:J:427:CYS:SG	1:J:681:MET:HE1	2.60	0.41
1:L:6:MET:HG2	1:L:130:LEU:HG	2.03	0.41
1:L:83:PHE:CE1	1:L:122:LEU:HD12	2.56	0.41
1:L:305:LEU:HA	1:L:308:GLU:CD	2.46	0.41
1:L:321:ASP:CG	1:L:324:ARG:HD2	2.46	0.41
1:L:656:GLU:OE1	1:L:656:GLU:HA	2.21	0.41
1:L:681:MET:HE2	1:L:681:MET:HA	2.02	0.41
1:M:54:ARG:HD3	1:M:94:PHE:CZ	2.56	0.41
1:M:298:ASN:C	1:M:298:ASN:HD22	2.27	0.41
1:M:329:LEU:HB2	1:M:715:MET:SD	2.61	0.41
1:M:397:GLY:C	1:J2:360:ALA:HB1	2.45	0.41
1:N:6:MET:HG2	1:N:130:LEU:HG	2.03	0.41
1:N:83:PHE:CE1	1:N:122:LEU:HD12	2.56	0.41
1:O:54:ARG:HD3	1:O:94:PHE:CZ	2.56	0.41
1:O:198:GLN:O	1:O:229:ARG:NH1	2.54	0.41
1:Q:465:ARG:O	1:Q:468:GLU:HG3	2.20	0.41
1:T:206:LYS:HG2	2:T:901:GCP:C5	2.50	0.41
1:T:305:LEU:HA	1:T:308:GLU:CD	2.46	0.41
1:Y:337:ALA:O	1:Y:341:GLU:OE1	2.39	0.41
1:Y:384:LEU:O	1:Y:388:ILE:HG23	2.20	0.41
1:Z:6:MET:HG2	1:Z:130:LEU:HG	2.03	0.41
1:Z:206:LYS:HG2	2:Z:901:GCP:C5	2.50	0.41
1:Z:394:ASN:OD1	1:Z:394:ASN:C	2.64	0.41
1:Z:681:MET:HE2	1:Z:681:MET:HA	2.02	0.41
1:E2:118:VAL:HA	1:E2:119:PRO:HD3	1.90	0.41
1:E2:198:GLN:O	1:E2:229:ARG:NH1	2.54	0.41
1:E2:271:ARG:O	1:E2:272:MET:HE2	2.21	0.41
1:E2:337:ALA:O	1:E2:341:GLU:OE1	2.39	0.41
1:H2:140:MET:HE2	1:H2:140:MET:HB3	1.97	0.41
1:H2:465:ARG:O	1:H2:468:GLU:HG3	2.20	0.41
1:I2:211:ASP:OD1	1:I2:212:GLU:N	2.54	0.41
1:C2:160:LEU:O	1:C2:164:VAL:HG22	2.21	0.41
1:D2:132:LEU:HA	1:D2:132:LEU:HD23	1.86	0.41
1:D2:378:GLU:CD	1:D2:379:PHE:H	2.28	0.41
1:D2:388:ILE:CG2	1:D2:412:ILE:HG13	2.44	0.41
1:A2:489:ASN:HD22	1:J2:368:GLU:HG2	1.86	0.41
1:A2:654:GLN:HG3	1:A2:657:ARG:HH21	1.85	0.41
1:B2:63:ILE:HG21	1:B2:113:LYS:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B2:227:LEU:HD12	1:B2:227:LEU:HA	1.85	0.41
1:A:321:ASP:CG	1:A:324:ARG:HD2	2.46	0.41
1:A:662:ILE:HD13	1:A:662:ILE:HA	1.96	0.41
1:B:140:MET:HE2	1:B:140:MET:HB3	1.97	0.41
1:B:337:ALA:O	1:B:341:GLU:OE1	2.39	0.41
1:B:683:LYS:HG2	1:X:485:TYR:HB3	2.03	0.41
1:C:38:GLY:CA	1:C:186:ALA:HB2	2.48	0.41
1:C:303:GLN:NE2	1:C:731:MET:HE2	2.36	0.41
1:C:321:ASP:CG	1:C:324:ARG:HD2	2.46	0.41
1:C:392:ILE:HD12	1:C:405:PRO:HD2	2.03	0.41
1:D:45:SER:OG	1:D:65:THR:OG1	2.37	0.41
1:D:59:ARG:NH2	1:D:242:ILE:HG12	2.36	0.41
1:D:198:GLN:O	1:D:229:ARG:NH1	2.54	0.41
1:D:329:LEU:HB2	1:D:715:MET:SD	2.61	0.41
1:E:206:LYS:HG2	2:E:901:GCP:C5	2.50	0.41
1:F:384:LEU:O	1:F:388:ILE:HG23	2.20	0.41
1:G:654:GLN:HG3	1:G:657:ARG:HH21	1.85	0.41
1:H:54:ARG:HD3	1:H:94:PHE:CZ	2.55	0.41
1:H:344:ILE:O	1:J:398:ILE:HG12	2.21	0.41
1:I:83:PHE:CE1	1:I:122:LEU:HD12	2.56	0.41
1:I:206:LYS:HG2	2:I:901:GCP:C5	2.51	0.41
1:J:54:ARG:HD3	1:J:94:PHE:CZ	2.55	0.41
1:J:465:ARG:O	1:J:468:GLU:HG3	2.20	0.41
1:K:83:PHE:CE1	1:K:122:LEU:HD12	2.56	0.41
1:K:371:PRO:HB3	1:K:678:ARG:CD	2.51	0.41
1:K:392:ILE:HD12	1:K:405:PRO:HD2	2.03	0.41
1:K:408:ALA:O	1:K:412:ILE:HG12	2.21	0.41
1:L:55:ASP:OD1	1:L:248:ILE:HD11	2.21	0.41
1:L:206:LYS:HG2	2:L:901:GCP:C5	2.50	0.41
1:L:303:GLN:NE2	1:L:731:MET:HE2	2.36	0.41
1:L:371:PRO:HB3	1:L:678:ARG:CD	2.51	0.41
1:M:237:ARG:O	2:M:901:GCP:O2'	2.38	0.41
1:N:5:GLY:HA3	1:N:282:ASN:HD22	1.85	0.41
1:N:160:LEU:O	1:N:164:VAL:HG22	2.21	0.41
1:O:44:LYS:H	1:O:44:LYS:HG3	1.62	0.41
1:O:465:ARG:O	1:O:468:GLU:HG3	2.20	0.41
1:P:160:LEU:O	1:P:164:VAL:HG22	2.21	0.41
1:P:256:ARG:HA	1:P:256:ARG:HD2	1.92	0.41
1:P:321:ASP:CG	1:P:324:ARG:HD2	2.46	0.41
1:P:392:ILE:HD12	1:P:405:PRO:HD2	2.03	0.41
1:P:480:ASP:OD2	1:I2:687:HIS:CE1	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:721:GLN:OE1	1:P:725:ARG:NH2	2.44	0.41
1:Q:211:ASP:OD1	1:Q:212:GLU:N	2.54	0.41
1:Q:271:ARG:O	1:Q:272:MET:HE2	2.21	0.41
1:Q:339:ASP:OD1	1:Q:343:ARG:NH2	2.53	0.41
1:R:83:PHE:CE1	1:R:122:LEU:HD12	2.56	0.41
1:R:656:GLU:OE1	1:R:656:GLU:HA	2.21	0.41
1:S:140:MET:HE2	1:S:140:MET:HB3	1.97	0.41
1:S:198:GLN:O	1:S:229:ARG:NH1	2.54	0.41
1:S:361:ARG:HH21	1:U:396:HIS:HB2	1.86	0.41
1:S:465:ARG:O	1:S:468:GLU:HG3	2.20	0.41
1:T:17:GLN:NE2	1:T:21:SER:OG	2.54	0.41
1:T:84:LEU:HD21	1:W:93:ASP:HA	2.03	0.41
1:T:321:ASP:CG	1:T:324:ARG:HD2	2.46	0.41
1:T:436:ILE:HG23	1:T:461:THR:HG22	2.03	0.41
1:V:178:ASN:HB3	1:W:178:ASN:ND2	2.36	0.41
1:V:371:PRO:HB3	1:V:678:ARG:CD	2.51	0.41
1:W:337:ALA:O	1:W:341:GLU:OE1	2.39	0.41
1:X:160:LEU:O	1:X:164:VAL:HG22	2.20	0.41
1:X:216:ALA:N	1:X:265:TYR:OH	2.54	0.41
1:X:281:LEU:HD23	1:X:281:LEU:HA	1.80	0.41
1:X:371:PRO:HB3	1:X:678:ARG:CD	2.51	0.41
1:X:654:GLN:HG3	1:X:657:ARG:HH21	1.85	0.41
1:Y:211:ASP:OD1	1:Y:212:GLU:N	2.54	0.41
1:Y:339:ASP:OD1	1:Y:343:ARG:NH2	2.53	0.41
1:Z:470:ARG:N	1:Z:470:ARG:HD2	2.36	0.41
1:E2:329:LEU:HB2	1:E2:715:MET:SD	2.61	0.41
1:E2:399:ARG:H	1:E2:399:ARG:HG2	1.65	0.41
1:F2:6:MET:HG2	1:F2:130:LEU:HG	2.03	0.41
1:F2:303:GLN:NE2	1:F2:731:MET:HE2	2.36	0.41
1:F2:436:ILE:HG23	1:F2:461:THR:HG22	2.03	0.41
1:F2:470:ARG:N	1:F2:470:ARG:HD2	2.36	0.41
1:G2:211:ASP:OD1	1:G2:212:GLU:N	2.54	0.41
1:H2:59:ARG:NH2	1:H2:242:ILE:HG12	2.36	0.41
1:I2:271:ARG:O	1:I2:272:MET:HE2	2.21	0.41
1:I2:329:LEU:HB2	1:I2:715:MET:SD	2.61	0.41
1:I2:339:ASP:OD1	1:I2:343:ARG:NH2	2.53	0.41
1:J2:118:VAL:HA	1:J2:119:PRO:HD3	1.90	0.41
1:J2:198:GLN:O	1:J2:229:ARG:NH1	2.54	0.41
1:J2:465:ARG:O	1:J2:468:GLU:HG3	2.20	0.41
1:D2:54:ARG:HD3	1:D2:94:PHE:CZ	2.56	0.41
1:D2:211:ASP:OD1	1:D2:212:GLU:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D2:384:LEU:O	1:D2:388:ILE:HG23	2.20	0.41
1:A2:6:MET:HG2	1:A2:130:LEU:HG	2.03	0.41
1:A2:206:LYS:HG2	2:A2:901:GCP:C5	2.50	0.41
1:A:394:ASN:OD1	1:A:394:ASN:C	2.64	0.41
1:B:45:SER:OG	1:B:65:THR:OG1	2.37	0.41
1:B:59:ARG:NH2	1:B:242:ILE:HG12	2.36	0.41
1:E:44:LYS:H	1:E:44:LYS:HG3	1.71	0.41
1:F:48:LEU:HD12	1:F:48:LEU:HA	1.96	0.41
1:F:457:GLU:O	1:F:461:THR:OG1	2.33	0.41
1:G:466:GLU:CD	1:I:297:ARG:HH22	2.25	0.41
1:I:408:ALA:O	1:I:412:ILE:HG12	2.21	0.41
1:K:160:LEU:O	1:K:164:VAL:HG22	2.21	0.41
1:N:305:LEU:HA	1:N:308:GLU:CD	2.46	0.41
1:P:178:ASN:HB3	1:Q:178:ASN:ND2	2.36	0.41
1:P:654:GLN:HG3	1:P:657:ARG:HH21	1.85	0.41
1:Q:54:ARG:HD3	1:Q:94:PHE:CZ	2.55	0.41
1:R:4:ARG:HA	1:R:4:ARG:HD2	1.95	0.41
1:R:305:LEU:HA	1:R:308:GLU:CD	2.46	0.41
1:S:54:ARG:HD3	1:S:94:PHE:CZ	2.56	0.41
1:T:216:ALA:N	1:T:265:TYR:OH	2.54	0.41
1:T:303:GLN:NE2	1:T:731:MET:HE2	2.36	0.41
1:U:102:GLU:O	1:U:105:THR:OG1	2.36	0.41
1:U:337:ALA:O	1:U:341:GLU:OE1	2.39	0.41
1:U:465:ARG:O	1:U:468:GLU:HG3	2.20	0.41
1:V:305:LEU:HA	1:V:308:GLU:CD	2.46	0.41
1:V:408:ALA:O	1:V:412:ILE:HG12	2.21	0.41
1:X:470:ARG:HD2	1:X:470:ARG:N	2.36	0.41
1:Y:388:ILE:CG2	1:Y:412:ILE:HG13	2.44	0.41
1:Z:55:ASP:OD1	1:Z:248:ILE:HD11	2.21	0.41
1:Z:371:PRO:HB3	1:Z:678:ARG:CD	2.51	0.41
1:F2:55:ASP:OD1	1:F2:248:ILE:HD11	2.21	0.41
1:F2:381:GLU:HG3	1:F2:382:LYS:HG2	2.03	0.41
1:F2:681:MET:HE2	1:F2:681:MET:HA	2.02	0.41
1:H2:271:ARG:O	1:H2:272:MET:HE2	2.21	0.41
1:I2:54:ARG:HD3	1:I2:94:PHE:CZ	2.55	0.41
1:I2:63:ILE:HG21	1:I2:113:LYS:HB3	2.02	0.41
1:J2:211:ASP:OD1	1:J2:212:GLU:N	2.54	0.41
1:J2:237:ARG:O	2:J2:901:GCP:O2'	2.38	0.41
1:C2:206:LYS:HG2	2:C2:901:GCP:C5	2.50	0.40
1:C2:371:PRO:HB3	1:C2:678:ARG:CD	2.51	0.40
1:D2:361:ARG:NH2	1:F:396:HIS:HB2	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D2:393:LYS:HA	1:B2:361:ARG:HH22	1.83	0.40
1:D2:484:ALA:CB	1:F2:687:HIS:HB2	2.51	0.40
1:A2:321:ASP:CG	1:A2:324:ARG:HD2	2.46	0.40
1:A2:371:PRO:HB3	1:A2:678:ARG:CD	2.51	0.40
1:B2:337:ALA:O	1:B2:341:GLU:OE1	2.39	0.40
1:A:6:MET:HG2	1:A:130:LEU:HG	2.03	0.40
1:A:312:GLU:HA	1:A:315:LYS:HE3	2.03	0.40
1:A:344:ILE:HG23	1:C:398:ILE:HD12	2.03	0.40
1:A:381:GLU:HG3	1:A:382:LYS:HG2	2.03	0.40
1:B:63:ILE:HG21	1:B:113:LYS:HB3	2.02	0.40
1:C:312:GLU:HA	1:C:315:LYS:HE3	2.03	0.40
1:C:394:ASN:OD1	1:C:394:ASN:C	2.64	0.40
1:F:198:GLN:O	1:F:229:ARG:NH1	2.54	0.40
1:G:5:GLY:HA3	1:G:282:ASN:HD22	1.85	0.40
1:G:305:LEU:HA	1:G:308:GLU:CD	2.46	0.40
1:G:453:ARG:NH2	1:I:228:ARG:HG3	2.36	0.40
1:I:4:ARG:HA	1:I:4:ARG:HD2	1.95	0.40
1:I:321:ASP:CG	1:I:324:ARG:HD2	2.46	0.40
1:K:206:LYS:HG2	2:K:901:GCP:C5	2.50	0.40
1:L:178:ASN:HB3	1:M:178:ASN:ND2	2.36	0.40
1:L:436:ILE:HG23	1:L:461:THR:HG22	2.03	0.40
1:N:115:ILE:HG12	1:N:152:ILE:HD11	2.04	0.40
1:N:356:LEU:HD11	1:N:361:ARG:CG	2.50	0.40
1:O:211:ASP:OD1	1:O:212:GLU:N	2.54	0.40
1:O:237:ARG:O	2:O:901:GCP:O2'	2.38	0.40
1:O:378:GLU:CD	1:O:379:PHE:H	2.28	0.40
1:O:427:CYS:SG	1:O:681:MET:HE1	2.60	0.40
1:P:371:PRO:HB3	1:P:678:ARG:CD	2.51	0.40
1:Q:237:ARG:O	2:Q:901:GCP:O2'	2.38	0.40
1:R:166:LYS:HE3	1:R:166:LYS:HB2	1.90	0.40
1:R:303:GLN:NE2	1:R:731:MET:HE2	2.36	0.40
1:S:211:ASP:OD1	1:S:212:GLU:N	2.54	0.40
1:T:142:LYS:NZ	1:U:185:ASP:OD1	2.30	0.40
1:T:408:ALA:O	1:T:412:ILE:HG12	2.21	0.40
1:V:470:ARG:N	1:V:470:ARG:HD2	2.36	0.40
1:V:488:THR:O	1:V:488:THR:HG22	2.19	0.40
1:W:407:MET:O	1:W:407:MET:HG2	2.21	0.40
1:X:394:ASN:OD1	1:X:394:ASN:C	2.64	0.40
1:E2:54:ARG:HD3	1:E2:94:PHE:CZ	2.55	0.40
1:F2:371:PRO:HB3	1:F2:678:ARG:CD	2.51	0.40
1:F2:392:ILE:HD12	1:F2:405:PRO:HD2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I2:407:MET:O	1:I2:407:MET:HG2	2.21	0.40
1:J2:271:ARG:O	1:J2:272:MET:HE2	2.21	0.40
1:C2:55:ASP:OD1	1:C2:248:ILE:HD11	2.21	0.40
1:C2:321:ASP:CG	1:C2:324:ARG:HD2	2.46	0.40
1:D2:337:ALA:O	1:D2:341:GLU:OE1	2.39	0.40
1:A2:115:ILE:HG12	1:A2:152:ILE:HD11	2.04	0.40
1:A2:392:ILE:HD12	1:A2:405:PRO:HD2	2.03	0.40
1:A2:470:ARG:N	1:A2:470:ARG:HD2	2.36	0.40
1:B2:397:GLY:HA2	1:B:360:ALA:HB1	2.02	0.40
1:A:436:ILE:HG23	1:A:461:THR:HG22	2.03	0.40
1:A:470:ARG:N	1:A:470:ARG:HD2	2.36	0.40
1:C:6:MET:HG2	1:C:130:LEU:HG	2.03	0.40
1:C:371:PRO:HB3	1:C:678:ARG:CD	2.51	0.40
1:C:470:ARG:HD2	1:C:470:ARG:N	2.36	0.40
1:E:487:ASN:H	1:O:683:LYS:NZ	2.19	0.40
1:G:371:PRO:HB3	1:G:678:ARG:CD	2.51	0.40
1:G:656:GLU:OE1	1:G:656:GLU:HA	2.21	0.40
1:I:142:LYS:NZ	1:J:185:ASP:OD1	2.30	0.40
1:I:305:LEU:HA	1:I:308:GLU:CD	2.46	0.40
1:I:436:ILE:HG23	1:I:461:THR:HG22	2.03	0.40
1:I:681:MET:HE2	1:I:681:MET:HA	2.02	0.40
1:L:160:LEU:O	1:L:164:VAL:HG22	2.21	0.40
1:L:453:ARG:NH2	1:N:228:ARG:HG3	2.36	0.40
1:M:211:ASP:OD1	1:M:212:GLU:N	2.54	0.40
1:M:465:ARG:O	1:M:468:GLU:HG3	2.20	0.40
1:N:55:ASP:OD1	1:N:248:ILE:HD11	2.21	0.40
1:N:371:PRO:HB3	1:N:678:ARG:CD	2.51	0.40
1:O:102:GLU:O	1:O:105:THR:OG1	2.36	0.40
1:O:140:MET:HE2	1:O:140:MET:HB3	1.97	0.40
1:O:344:ILE:O	1:Q:398:ILE:HG12	2.21	0.40
1:P:374:LEU:HD23	1:P:374:LEU:HA	1.97	0.40
1:Q:59:ARG:NH2	1:Q:242:ILE:HG12	2.36	0.40
1:R:356:LEU:HD11	1:R:361:ARG:CG	2.50	0.40
1:R:371:PRO:HB3	1:R:678:ARG:CD	2.51	0.40
1:R:408:ALA:O	1:R:412:ILE:HG12	2.21	0.40
1:S:337:ALA:O	1:S:341:GLU:OE1	2.39	0.40
1:U:407:MET:O	1:U:407:MET:HG2	2.21	0.40
1:X:466:GLU:CD	1:Z:297:ARG:HH22	2.27	0.40
1:Y:63:ILE:HG21	1:Y:113:LYS:HB3	2.02	0.40
1:Y:118:VAL:HA	1:Y:119:PRO:HD3	1.90	0.40
1:Y:399:ARG:H	1:Y:399:ARG:HG2	1.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:178:ASN:HB3	1:E2:178:ASN:ND2	2.36	0.40
1:F2:216:ALA:N	1:F2:265:TYR:OH	2.54	0.40
1:G2:396:HIS:HB2	1:H2:361:ARG:NH2	2.36	0.40
1:C2:115:ILE:HG12	1:C2:152:ILE:HD11	2.04	0.40
1:C2:470:ARG:N	1:C2:470:ARG:HD2	2.36	0.40
1:D2:45:SER:OG	1:D2:65:THR:OG1	2.37	0.40
1:D2:142:LYS:HE2	1:D2:142:LYS:HB2	2.00	0.40
1:A2:305:LEU:HA	1:A2:308:GLU:CD	2.46	0.40
1:A2:312:GLU:HA	1:A2:315:LYS:HE3	2.03	0.40
1:A2:394:ASN:OD1	1:A2:394:ASN:C	2.64	0.40
1:A:216:ALA:N	1:A:265:TYR:OH	2.54	0.40
1:A:371:PRO:HB3	1:A:678:ARG:CD	2.51	0.40
1:C:408:ALA:O	1:C:412:ILE:HG12	2.21	0.40
1:E:83:PHE:CE1	1:E:122:LEU:HD12	2.56	0.40
1:E:656:GLU:OE1	1:E:656:GLU:HA	2.21	0.40
1:F:140:MET:HE2	1:F:140:MET:HB3	1.97	0.40
1:G:436:ILE:HG23	1:G:461:THR:HG22	2.03	0.40
1:I:398:ILE:HD12	1:K:344:ILE:HG23	2.03	0.40
1:K:115:ILE:HG12	1:K:152:ILE:HD11	2.04	0.40
1:K:321:ASP:CG	1:K:324:ARG:HD2	2.46	0.40
1:L:115:ILE:HG12	1:L:152:ILE:HD11	2.04	0.40
1:L:392:ILE:HD12	1:L:405:PRO:HD2	2.03	0.40
1:N:166:LYS:HE3	1:N:166:LYS:HB2	1.90	0.40
1:N:206:LYS:HG2	2:N:901:GCP:C5	2.50	0.40
1:N:303:GLN:NE2	1:N:731:MET:HE2	2.36	0.40
1:O:271:ARG:O	1:O:272:MET:HE2	2.21	0.40
1:P:115:ILE:HG12	1:P:152:ILE:HD11	2.04	0.40
1:P:206:LYS:HG2	2:P:901:GCP:C5	2.50	0.40
1:P:408:ALA:O	1:P:412:ILE:HG12	2.21	0.40
1:S:59:ARG:NH2	1:S:242:ILE:HG12	2.36	0.40
1:T:371:PRO:HB3	1:T:678:ARG:CD	2.51	0.40
1:T:392:ILE:HD12	1:T:405:PRO:HD2	2.03	0.40
1:T:453:ARG:NH2	1:V:228:ARG:HG3	2.36	0.40
1:T:470:ARG:N	1:T:470:ARG:HD2	2.36	0.40
1:U:48:LEU:HD12	1:U:48:LEU:HA	1.96	0.40
1:U:140:MET:HE2	1:U:140:MET:HB3	1.97	0.40
1:W:344:ILE:O	1:Y:398:ILE:HG12	2.21	0.40
1:X:408:ALA:O	1:X:412:ILE:HG12	2.22	0.40
1:E2:59:ARG:NH2	1:E2:242:ILE:HG12	2.36	0.40
1:F2:160:LEU:O	1:F2:164:VAL:HG22	2.21	0.40
1:F2:206:LYS:HG2	2:F2:901:GCP:C5	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F2:321:ASP:CG	1:F2:324:ARG:HD2	2.46	0.40
1:H2:298:ASN:C	1:H2:298:ASN:HD22	2.27	0.40
1:H2:397:GLY:HA2	1:I2:360:ALA:HB1	2.03	0.40
1:I2:388:ILE:CG2	1:I2:412:ILE:HG13	2.44	0.40
1:C2:408:ALA:O	1:C2:412:ILE:HG12	2.21	0.40
1:C2:721:GLN:OE1	1:C2:725:ARG:NH2	2.44	0.40
1:A2:216:ALA:N	1:A2:265:TYR:OH	2.54	0.40
1:A2:223:LYS:HE3	1:A2:223:LYS:HB2	1.72	0.40
1:A2:303:GLN:NE2	1:A2:731:MET:HE2	2.36	0.40
1:A2:662:ILE:HD13	1:A2:662:ILE:HA	1.96	0.40
1:B2:59:ARG:NH2	1:B2:242:ILE:HG12	2.36	0.40
1:B2:211:ASP:OD1	1:B2:212:GLU:N	2.54	0.40
1:B2:271:ARG:O	1:B2:272:MET:HE2	2.21	0.40
1:A:115:ILE:HG12	1:A:152:ILE:HD11	2.04	0.40
1:A:392:ILE:HD12	1:A:405:PRO:HD2	2.03	0.40
1:B:298:ASN:C	1:B:298:ASN:HD22	2.28	0.40
1:B:456:MET:HE3	1:B:456:MET:HB2	1.94	0.40
1:C:115:ILE:HG12	1:C:152:ILE:HD11	2.04	0.40
1:D:211:ASP:OD1	1:D:212:GLU:N	2.54	0.40
1:E:55:ASP:OD1	1:E:248:ILE:HD11	2.21	0.40
1:E:115:ILE:HG12	1:E:152:ILE:HD11	2.04	0.40
1:E:662:ILE:HD13	1:E:662:ILE:HA	1.96	0.40
1:F:54:ARG:HD3	1:F:94:PHE:CZ	2.55	0.40
1:G:83:PHE:CE1	1:G:122:LEU:HD12	2.55	0.40
1:I:321:ASP:HB2	1:I:325:LYS:HG3	2.04	0.40
1:J:653:PRO:C	1:J:655:LEU:H	2.30	0.40
1:K:305:LEU:HA	1:K:308:GLU:CD	2.46	0.40
1:L:44:LYS:H	1:L:44:LYS:HG3	1.71	0.40
1:L:142:LYS:HB3	1:L:142:LYS:HE2	1.92	0.40
1:M:457:GLU:O	1:M:461:THR:OG1	2.33	0.40
1:Q:407:MET:O	1:Q:407:MET:HG2	2.21	0.40
1:R:256:ARG:HA	1:R:256:ARG:HD2	1.92	0.40
1:R:374:LEU:HD23	1:R:374:LEU:HA	1.96	0.40
1:T:178:ASN:HB3	1:U:178:ASN:ND2	2.36	0.40
1:V:17:GLN:NE2	1:V:21:SER:OG	2.54	0.40
1:X:490:HIS:CG	1:X:491:GLU:H	2.40	0.40
1:Z:392:ILE:HD12	1:Z:405:PRO:HD2	2.03	0.40
1:G2:63:ILE:HG21	1:G2:113:LYS:HB3	2.02	0.40
1:G2:329:LEU:HB2	1:G2:715:MET:SD	2.61	0.40
1:H2:329:LEU:HB2	1:H2:715:MET:SD	2.61	0.40
1:J2:329:LEU:HB2	1:J2:715:MET:SD	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C2:392:ILE:HD12	1:C2:405:PRO:HD2	2.03	0.40
1:D2:59:ARG:NH2	1:D2:242:ILE:HG12	2.36	0.40
1:D2:407:MET:O	1:D2:407:MET:HG2	2.21	0.40
1:A:239:GLN:OE1	2:A:901:GCP:O3'	2.40	0.40
1:C:15:ARG:O	1:C:15:ARG:HG2	2.22	0.40
1:C:381:GLU:HG3	1:C:382:LYS:HG2	2.03	0.40
1:E:371:PRO:HB3	1:E:678:ARG:CD	2.51	0.40
1:F:93:ASP:OD1	1:F:93:ASP:N	2.47	0.40
1:G:115:ILE:HG12	1:G:152:ILE:HD11	2.04	0.40
1:H:465:ARG:O	1:H:468:GLU:HG3	2.20	0.40
1:I:237:ARG:O	2:I:901:GCP:O2'	2.34	0.40
1:K:321:ASP:HB2	1:K:325:LYS:HG3	2.04	0.40
1:L:408:ALA:O	1:L:412:ILE:HG12	2.22	0.40
1:M:337:ALA:O	1:M:341:GLU:OE1	2.39	0.40
1:O:407:MET:O	1:O:407:MET:HG2	2.21	0.40
1:Q:337:ALA:O	1:Q:341:GLU:OE1	2.39	0.40
1:Q:361:ARG:HH21	1:S:396:HIS:HB2	1.87	0.40
1:Q:653:PRO:C	1:Q:655:LEU:H	2.30	0.40
1:S:237:ARG:O	2:S:901:GCP:O2'	2.38	0.40
1:T:118:VAL:HG12	1:W:90:LYS:HD3	2.03	0.40
1:U:211:ASP:OD1	1:U:212:GLU:N	2.54	0.40
1:V:436:ILE:HG23	1:V:461:THR:HG22	2.03	0.40
1:W:653:PRO:C	1:W:655:LEU:H	2.29	0.40
1:X:55:ASP:OD1	1:X:248:ILE:HD11	2.21	0.40
1:X:398:ILE:HD12	1:Z:344:ILE:HG23	2.03	0.40
1:Z:15:ARG:O	1:Z:15:ARG:HG2	2.22	0.40
1:Z:239:GLN:OE1	2:Z:901:GCP:O3'	2.40	0.40
1:Z:490:HIS:CG	1:Z:491:GLU:H	2.40	0.40
1:F2:305:LEU:HA	1:F2:308:GLU:CD	2.46	0.40
1:F2:312:GLU:HA	1:F2:315:LYS:HE3	2.03	0.40
1:G2:10:ILE:HA	1:G2:11:PRO:HD3	1.92	0.40
1:G2:227:LEU:HD12	1:G2:227:LEU:HA	1.85	0.40
1:G2:271:ARG:O	1:G2:272:MET:HE2	2.21	0.40
1:I2:132:LEU:HD23	1:I2:132:LEU:HA	1.86	0.40
1:I2:653:PRO:C	1:I2:655:LEU:H	2.30	0.40
1:J2:653:PRO:C	1:J2:655:LEU:H	2.29	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	583/864 (68%)	555 (95%)	28 (5%)	0	100	100
1	A2	583/864 (68%)	555 (95%)	28 (5%)	0	100	100
1	B	578/864 (67%)	541 (94%)	37 (6%)	0	100	100
1	B2	578/864 (67%)	541 (94%)	37 (6%)	0	100	100
1	C	583/864 (68%)	555 (95%)	28 (5%)	0	100	100
1	C2	583/864 (68%)	555 (95%)	28 (5%)	0	100	100
1	D	578/864 (67%)	541 (94%)	37 (6%)	0	100	100
1	D2	578/864 (67%)	541 (94%)	37 (6%)	0	100	100
1	E	583/864 (68%)	555 (95%)	28 (5%)	0	100	100
1	E2	578/864 (67%)	541 (94%)	37 (6%)	0	100	100
1	F	578/864 (67%)	541 (94%)	37 (6%)	0	100	100
1	F2	583/864 (68%)	555 (95%)	28 (5%)	0	100	100
1	G	583/864 (68%)	555 (95%)	28 (5%)	0	100	100
1	G2	578/864 (67%)	541 (94%)	37 (6%)	0	100	100
1	H	578/864 (67%)	541 (94%)	37 (6%)	0	100	100
1	H2	578/864 (67%)	541 (94%)	37 (6%)	0	100	100
1	I	583/864 (68%)	554 (95%)	29 (5%)	0	100	100
1	I2	578/864 (67%)	541 (94%)	37 (6%)	0	100	100
1	J	578/864 (67%)	541 (94%)	37 (6%)	0	100	100
1	J2	578/864 (67%)	541 (94%)	37 (6%)	0	100	100
1	K	583/864 (68%)	555 (95%)	28 (5%)	0	100	100
1	L	583/864 (68%)	554 (95%)	29 (5%)	0	100	100
1	M	578/864 (67%)	541 (94%)	37 (6%)	0	100	100
1	N	583/864 (68%)	555 (95%)	28 (5%)	0	100	100
1	O	578/864 (67%)	541 (94%)	37 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	P	583/864 (68%)	555 (95%)	28 (5%)	0	100	100
1	Q	578/864 (67%)	541 (94%)	37 (6%)	0	100	100
1	R	583/864 (68%)	555 (95%)	28 (5%)	0	100	100
1	S	578/864 (67%)	541 (94%)	37 (6%)	0	100	100
1	T	583/864 (68%)	555 (95%)	28 (5%)	0	100	100
1	U	578/864 (67%)	541 (94%)	37 (6%)	0	100	100
1	V	583/864 (68%)	555 (95%)	28 (5%)	0	100	100
1	W	578/864 (67%)	541 (94%)	37 (6%)	0	100	100
1	X	583/864 (68%)	555 (95%)	28 (5%)	0	100	100
1	Y	578/864 (67%)	541 (94%)	37 (6%)	0	100	100
1	Z	583/864 (68%)	555 (95%)	28 (5%)	0	100	100
All	All	20893/31104 (67%)	19712 (94%)	1181 (6%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	525/761 (69%)	525 (100%)	0	100	100
1	A2	525/761 (69%)	525 (100%)	0	100	100
1	B	521/761 (68%)	521 (100%)	0	100	100
1	B2	521/761 (68%)	521 (100%)	0	100	100
1	C	525/761 (69%)	525 (100%)	0	100	100
1	C2	525/761 (69%)	525 (100%)	0	100	100
1	D	521/761 (68%)	521 (100%)	0	100	100
1	D2	521/761 (68%)	521 (100%)	0	100	100
1	E	525/761 (69%)	525 (100%)	0	100	100
1	E2	521/761 (68%)	521 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	F	521/761 (68%)	521 (100%)	0	100	100
1	F2	525/761 (69%)	525 (100%)	0	100	100
1	G	525/761 (69%)	525 (100%)	0	100	100
1	G2	521/761 (68%)	521 (100%)	0	100	100
1	H	521/761 (68%)	521 (100%)	0	100	100
1	H2	521/761 (68%)	521 (100%)	0	100	100
1	I	525/761 (69%)	525 (100%)	0	100	100
1	I2	521/761 (68%)	521 (100%)	0	100	100
1	J	521/761 (68%)	521 (100%)	0	100	100
1	J2	521/761 (68%)	521 (100%)	0	100	100
1	K	525/761 (69%)	525 (100%)	0	100	100
1	L	525/761 (69%)	525 (100%)	0	100	100
1	M	521/761 (68%)	521 (100%)	0	100	100
1	N	525/761 (69%)	525 (100%)	0	100	100
1	O	521/761 (68%)	521 (100%)	0	100	100
1	P	525/761 (69%)	525 (100%)	0	100	100
1	Q	521/761 (68%)	521 (100%)	0	100	100
1	R	525/761 (69%)	525 (100%)	0	100	100
1	S	521/761 (68%)	521 (100%)	0	100	100
1	T	525/761 (69%)	525 (100%)	0	100	100
1	U	521/761 (68%)	521 (100%)	0	100	100
1	V	525/761 (69%)	525 (100%)	0	100	100
1	W	521/761 (68%)	521 (100%)	0	100	100
1	X	525/761 (69%)	525 (100%)	0	100	100
1	Y	521/761 (68%)	521 (100%)	0	100	100
1	Z	525/761 (69%)	525 (100%)	0	100	100
All	All	18824/27396 (69%)	18824 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (200) such sidechains are listed below:

Mol	Chain	Res	Type
1	C2	287	ASN
1	C2	303	GLN
1	C2	363	ASN
1	C2	367	HIS
1	C2	394	ASN
1	C2	474	GLN
1	C2	490	HIS
1	C2	692	ASN
1	C2	733	HIS
1	D2	17	GLN
1	D2	155	GLN
1	D2	474	GLN
1	D2	733	HIS
1	A2	287	ASN
1	A2	303	GLN
1	A2	363	ASN
1	A2	367	HIS
1	A2	394	ASN
1	A2	474	GLN
1	A2	490	HIS
1	A2	687	HIS
1	A2	692	ASN
1	B2	17	GLN
1	B2	168	ASN
1	B2	733	HIS
1	A	168	ASN
1	A	287	ASN
1	A	303	GLN
1	A	363	ASN
1	A	367	HIS
1	A	394	ASN
1	A	692	ASN
1	B	17	GLN
1	B	155	GLN
1	B	298	ASN
1	B	474	GLN
1	B	733	HIS
1	C	168	ASN
1	C	287	ASN
1	C	303	GLN
1	C	363	ASN
1	C	367	HIS
1	C	394	ASN

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Mol	Chain	Res	Type
1	C	692	ASN
1	D	17	GLN
1	E	287	ASN
1	E	303	GLN
1	E	363	ASN
1	E	367	HIS
1	E	394	ASN
1	E	474	GLN
1	E	490	HIS
1	E	692	ASN
1	F	17	GLN
1	F	155	GLN
1	F	733	HIS
1	G	287	ASN
1	G	363	ASN
1	G	367	HIS
1	G	394	ASN
1	G	474	GLN
1	G	490	HIS
1	G	692	ASN
1	G	733	HIS
1	H	17	GLN
1	H	155	GLN
1	H	298	ASN
1	H	489	ASN
1	H	733	HIS
1	I	121	ASN
1	I	287	ASN
1	I	363	ASN
1	I	367	HIS
1	I	394	ASN
1	I	474	GLN
1	I	490	HIS
1	I	692	ASN
1	J	17	GLN
1	J	155	GLN
1	J	489	ASN
1	J	733	HIS
1	K	121	ASN
1	K	287	ASN
1	K	363	ASN
1	K	367	HIS

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Mol	Chain	Res	Type
1	K	394	ASN
1	K	474	GLN
1	K	687	HIS
1	K	692	ASN
1	L	287	ASN
1	L	363	ASN
1	L	367	HIS
1	L	394	ASN
1	L	692	ASN
1	M	17	GLN
1	M	155	GLN
1	M	298	ASN
1	M	474	GLN
1	M	733	HIS
1	N	287	ASN
1	N	363	ASN
1	N	367	HIS
1	N	394	ASN
1	N	692	ASN
1	O	17	GLN
1	O	155	GLN
1	O	474	GLN
1	O	733	HIS
1	P	287	ASN
1	P	363	ASN
1	P	367	HIS
1	P	394	ASN
1	P	474	GLN
1	P	692	ASN
1	Q	17	GLN
1	Q	155	GLN
1	Q	474	GLN
1	Q	733	HIS
1	R	287	ASN
1	R	303	GLN
1	R	363	ASN
1	R	367	HIS
1	R	394	ASN
1	R	474	GLN
1	R	490	HIS
1	R	692	ASN
1	S	17	GLN

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Mol	Chain	Res	Type
1	S	155	GLN
1	S	298	ASN
1	S	474	GLN
1	S	733	HIS
1	T	287	ASN
1	T	303	GLN
1	T	363	ASN
1	T	367	HIS
1	T	394	ASN
1	T	490	HIS
1	T	687	HIS
1	T	692	ASN
1	U	17	GLN
1	U	155	GLN
1	U	474	GLN
1	U	733	HIS
1	V	287	ASN
1	V	303	GLN
1	V	363	ASN
1	V	367	HIS
1	V	394	ASN
1	V	692	ASN
1	W	17	GLN
1	W	155	GLN
1	W	733	HIS
1	X	287	ASN
1	X	303	GLN
1	X	363	ASN
1	X	367	HIS
1	X	474	GLN
1	X	490	HIS
1	X	692	ASN
1	Y	17	GLN
1	Y	489	ASN
1	Y	733	HIS
1	Z	121	ASN
1	Z	287	ASN
1	Z	303	GLN
1	Z	363	ASN
1	Z	367	HIS
1	Z	394	ASN
1	Z	692	ASN

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Mol	Chain	Res	Type
1	E2	17	GLN
1	E2	155	GLN
1	E2	489	ASN
1	E2	733	HIS
1	F2	121	ASN
1	F2	287	ASN
1	F2	363	ASN
1	F2	367	HIS
1	F2	394	ASN
1	F2	474	GLN
1	F2	489	ASN
1	F2	490	HIS
1	F2	692	ASN
1	G2	17	GLN
1	G2	155	GLN
1	G2	474	GLN
1	G2	733	HIS
1	H2	17	GLN
1	H2	155	GLN
1	H2	298	ASN
1	H2	474	GLN
1	H2	733	HIS
1	I2	17	GLN
1	I2	155	GLN
1	I2	474	GLN
1	I2	733	HIS
1	J2	17	GLN
1	J2	155	GLN
1	J2	298	ASN
1	J2	474	GLN
1	J2	733	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 72 ligands modelled in this entry, 36 are monoatomic - leaving 36 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	GCP	N	901	3	32,34,34	3.16	12 (37%)	49,54,54	1.66	9 (18%)
2	GCP	Z	901	3	32,34,34	3.16	12 (37%)	49,54,54	1.66	9 (18%)
2	GCP	E2	901	3	32,34,34	3.14	12 (37%)	49,54,54	1.69	9 (18%)
2	GCP	O	901	3	32,34,34	3.14	12 (37%)	49,54,54	1.70	9 (18%)
2	GCP	P	901	3	32,34,34	3.16	12 (37%)	49,54,54	1.66	9 (18%)
2	GCP	W	901	3	32,34,34	3.14	12 (37%)	49,54,54	1.69	9 (18%)
2	GCP	J	901	3	32,34,34	3.14	12 (37%)	49,54,54	1.68	9 (18%)
2	GCP	A2	901	3	32,34,34	3.16	12 (37%)	49,54,54	1.66	9 (18%)
2	GCP	A	901	3	32,34,34	3.16	12 (37%)	49,54,54	1.66	9 (18%)
2	GCP	B2	901	3	32,34,34	3.14	12 (37%)	49,54,54	1.69	9 (18%)
2	GCP	C2	901	3	32,34,34	3.16	12 (37%)	49,54,54	1.66	9 (18%)
2	GCP	J2	901	3	32,34,34	3.14	12 (37%)	49,54,54	1.69	9 (18%)
2	GCP	T	901	3	32,34,34	3.17	12 (37%)	49,54,54	1.65	9 (18%)
2	GCP	I	901	3	32,34,34	3.16	12 (37%)	49,54,54	1.66	9 (18%)
2	GCP	L	901	3	32,34,34	3.16	12 (37%)	49,54,54	1.65	9 (18%)
2	GCP	S	901	3	32,34,34	3.13	12 (37%)	49,54,54	1.69	9 (18%)
2	GCP	G2	901	3	32,34,34	3.13	12 (37%)	49,54,54	1.70	9 (18%)
2	GCP	V	901	3	32,34,34	3.15	12 (37%)	49,54,54	1.65	9 (18%)
2	GCP	H	901	3	32,34,34	3.14	12 (37%)	49,54,54	1.69	9 (18%)
2	GCP	D	901	3	32,34,34	3.14	12 (37%)	49,54,54	1.69	9 (18%)
2	GCP	U	901	3	32,34,34	3.14	12 (37%)	49,54,54	1.69	9 (18%)
2	GCP	Q	901	3	32,34,34	3.14	12 (37%)	49,54,54	1.69	9 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	GCP	R	901	3	32,34,34	3.16	12 (37%)	49,54,54	1.66	9 (18%)
2	GCP	C	901	3	32,34,34	3.15	12 (37%)	49,54,54	1.66	9 (18%)
2	GCP	F2	901	3	32,34,34	3.16	12 (37%)	49,54,54	1.66	9 (18%)
2	GCP	X	901	3	32,34,34	3.16	12 (37%)	49,54,54	1.65	9 (18%)
2	GCP	K	901	3	32,34,34	3.16	12 (37%)	49,54,54	1.66	9 (18%)
2	GCP	Y	901	3	32,34,34	3.13	12 (37%)	49,54,54	1.69	9 (18%)
2	GCP	H2	901	3	32,34,34	3.13	12 (37%)	49,54,54	1.69	9 (18%)
2	GCP	E	901	3	32,34,34	3.16	12 (37%)	49,54,54	1.65	9 (18%)
2	GCP	G	901	3	32,34,34	3.16	12 (37%)	49,54,54	1.66	9 (18%)
2	GCP	F	901	3	32,34,34	3.14	12 (37%)	49,54,54	1.69	9 (18%)
2	GCP	M	901	3	32,34,34	3.13	12 (37%)	49,54,54	1.69	9 (18%)
2	GCP	D2	901	3	32,34,34	3.14	12 (37%)	49,54,54	1.69	9 (18%)
2	GCP	B	901	3	32,34,34	3.14	12 (37%)	49,54,54	1.69	9 (18%)
2	GCP	I2	901	3	32,34,34	3.14	12 (37%)	49,54,54	1.69	9 (18%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	GCP	N	901	3	-	0/19/38/38	0/3/3/3
2	GCP	Z	901	3	-	0/19/38/38	0/3/3/3
2	GCP	E2	901	3	-	4/19/38/38	0/3/3/3
2	GCP	O	901	3	-	4/19/38/38	0/3/3/3
2	GCP	P	901	3	-	0/19/38/38	0/3/3/3
2	GCP	W	901	3	-	4/19/38/38	0/3/3/3
2	GCP	J	901	3	-	4/19/38/38	0/3/3/3
2	GCP	A2	901	3	-	0/19/38/38	0/3/3/3
2	GCP	A	901	3	-	0/19/38/38	0/3/3/3
2	GCP	B2	901	3	-	4/19/38/38	0/3/3/3
2	GCP	C2	901	3	-	0/19/38/38	0/3/3/3
2	GCP	J2	901	3	-	4/19/38/38	0/3/3/3
2	GCP	T	901	3	-	0/19/38/38	0/3/3/3
2	GCP	I	901	3	-	0/19/38/38	0/3/3/3
2	GCP	L	901	3	-	0/19/38/38	0/3/3/3
2	GCP	S	901	3	-	4/19/38/38	0/3/3/3
2	GCP	G2	901	3	-	4/19/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	GCP	V	901	3	-	0/19/38/38	0/3/3/3
2	GCP	H	901	3	-	4/19/38/38	0/3/3/3
2	GCP	D	901	3	-	4/19/38/38	0/3/3/3
2	GCP	U	901	3	-	4/19/38/38	0/3/3/3
2	GCP	Q	901	3	-	4/19/38/38	0/3/3/3
2	GCP	R	901	3	-	0/19/38/38	0/3/3/3
2	GCP	C	901	3	-	0/19/38/38	0/3/3/3
2	GCP	F2	901	3	-	0/19/38/38	0/3/3/3
2	GCP	X	901	3	-	0/19/38/38	0/3/3/3
2	GCP	K	901	3	-	0/19/38/38	0/3/3/3
2	GCP	Y	901	3	-	4/19/38/38	0/3/3/3
2	GCP	H2	901	3	-	4/19/38/38	0/3/3/3
2	GCP	E	901	3	-	0/19/38/38	0/3/3/3
2	GCP	G	901	3	-	0/19/38/38	0/3/3/3
2	GCP	F	901	3	-	4/19/38/38	0/3/3/3
2	GCP	M	901	3	-	4/19/38/38	0/3/3/3
2	GCP	D2	901	3	-	4/19/38/38	0/3/3/3
2	GCP	B	901	3	-	4/19/38/38	0/3/3/3
2	GCP	I2	901	3	-	4/19/38/38	0/3/3/3

All (432) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	P	901	GCP	O4'-C1'	8.62	1.61	1.42
2	N	901	GCP	O4'-C1'	8.62	1.61	1.42
2	G	901	GCP	O4'-C1'	8.61	1.61	1.42
2	Z	901	GCP	O4'-C1'	8.61	1.61	1.42
2	A2	901	GCP	O4'-C1'	8.61	1.61	1.42
2	X	901	GCP	O4'-C1'	8.60	1.61	1.42
2	C	901	GCP	O4'-C1'	8.60	1.61	1.42
2	C2	901	GCP	O4'-C1'	8.60	1.61	1.42
2	T	901	GCP	O4'-C1'	8.60	1.61	1.42
2	I	901	GCP	O4'-C1'	8.60	1.61	1.42
2	A	901	GCP	O4'-C1'	8.60	1.61	1.42
2	E	901	GCP	O4'-C1'	8.59	1.61	1.42
2	V	901	GCP	O4'-C1'	8.59	1.61	1.42
2	K	901	GCP	O4'-C1'	8.59	1.61	1.42
2	F2	901	GCP	O4'-C1'	8.59	1.61	1.42
2	L	901	GCP	O4'-C1'	8.58	1.61	1.42
2	R	901	GCP	O4'-C1'	8.58	1.61	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	W	901	GCP	O4'-C1'	8.54	1.61	1.42
2	B	901	GCP	O4'-C1'	8.53	1.61	1.42
2	B2	901	GCP	O4'-C1'	8.52	1.61	1.42
2	Q	901	GCP	O4'-C1'	8.52	1.61	1.42
2	O	901	GCP	O4'-C1'	8.52	1.61	1.42
2	U	901	GCP	O4'-C1'	8.52	1.61	1.42
2	E2	901	GCP	O4'-C1'	8.51	1.61	1.42
2	D	901	GCP	O4'-C1'	8.51	1.61	1.42
2	J	901	GCP	O4'-C1'	8.51	1.61	1.42
2	J2	901	GCP	O4'-C1'	8.51	1.61	1.42
2	H2	901	GCP	O4'-C1'	8.51	1.61	1.42
2	S	901	GCP	O4'-C1'	8.51	1.61	1.42
2	D2	901	GCP	O4'-C1'	8.51	1.61	1.42
2	M	901	GCP	O4'-C1'	8.50	1.61	1.42
2	G2	901	GCP	O4'-C1'	8.50	1.61	1.42
2	F	901	GCP	O4'-C1'	8.49	1.61	1.42
2	I2	901	GCP	O4'-C1'	8.48	1.61	1.42
2	H	901	GCP	O4'-C1'	8.48	1.61	1.42
2	Y	901	GCP	O4'-C1'	8.48	1.61	1.42
2	J2	901	GCP	C2'-C1'	-7.49	1.29	1.53
2	I2	901	GCP	C2'-C1'	-7.49	1.29	1.53
2	B2	901	GCP	C2'-C1'	-7.48	1.30	1.53
2	Q	901	GCP	C2'-C1'	-7.48	1.30	1.53
2	H	901	GCP	C2'-C1'	-7.48	1.30	1.53
2	Y	901	GCP	C2'-C1'	-7.48	1.30	1.53
2	F	901	GCP	C2'-C1'	-7.48	1.30	1.53
2	W	901	GCP	C2'-C1'	-7.48	1.30	1.53
2	G2	901	GCP	C2'-C1'	-7.47	1.30	1.53
2	S	901	GCP	C2'-C1'	-7.47	1.30	1.53
2	E2	901	GCP	C2'-C1'	-7.47	1.30	1.53
2	D2	901	GCP	C2'-C1'	-7.46	1.30	1.53
2	B	901	GCP	C2'-C1'	-7.46	1.30	1.53
2	D	901	GCP	C2'-C1'	-7.46	1.30	1.53
2	O	901	GCP	C2'-C1'	-7.45	1.30	1.53
2	H2	901	GCP	C2'-C1'	-7.45	1.30	1.53
2	J	901	GCP	C2'-C1'	-7.45	1.30	1.53
2	M	901	GCP	C2'-C1'	-7.43	1.30	1.53
2	U	901	GCP	C2'-C1'	-7.43	1.30	1.53
2	X	901	GCP	C2'-C1'	-7.35	1.30	1.53
2	G	901	GCP	C2'-C1'	-7.35	1.30	1.53
2	T	901	GCP	C2'-C1'	-7.35	1.30	1.53
2	V	901	GCP	C2'-C1'	-7.35	1.30	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	I	901	GCP	C2'-C1'	-7.34	1.30	1.53
2	A	901	GCP	C2'-C1'	-7.34	1.30	1.53
2	F2	901	GCP	C2'-C1'	-7.33	1.30	1.53
2	C2	901	GCP	C2'-C1'	-7.33	1.30	1.53
2	A2	901	GCP	C2'-C1'	-7.33	1.30	1.53
2	N	901	GCP	C2'-C1'	-7.33	1.30	1.53
2	R	901	GCP	C2'-C1'	-7.33	1.30	1.53
2	K	901	GCP	C2'-C1'	-7.32	1.30	1.53
2	L	901	GCP	C2'-C1'	-7.32	1.30	1.53
2	C	901	GCP	C2'-C1'	-7.32	1.30	1.53
2	Z	901	GCP	C2'-C1'	-7.32	1.30	1.53
2	E	901	GCP	C2'-C1'	-7.32	1.30	1.53
2	P	901	GCP	C2'-C1'	-7.31	1.30	1.53
2	B	901	GCP	O4'-C4'	-6.39	1.30	1.45
2	W	901	GCP	O4'-C4'	-6.37	1.30	1.45
2	B2	901	GCP	O4'-C4'	-6.37	1.30	1.45
2	Y	901	GCP	O4'-C4'	-6.36	1.30	1.45
2	U	901	GCP	O4'-C4'	-6.36	1.30	1.45
2	O	901	GCP	O4'-C4'	-6.36	1.30	1.45
2	G2	901	GCP	O4'-C4'	-6.36	1.30	1.45
2	D	901	GCP	O4'-C4'	-6.35	1.30	1.45
2	F	901	GCP	O4'-C4'	-6.35	1.30	1.45
2	H	901	GCP	O4'-C4'	-6.35	1.30	1.45
2	D2	901	GCP	O4'-C4'	-6.34	1.30	1.45
2	H2	901	GCP	O4'-C4'	-6.34	1.30	1.45
2	I2	901	GCP	O4'-C4'	-6.34	1.30	1.45
2	Q	901	GCP	O4'-C4'	-6.34	1.30	1.45
2	M	901	GCP	O4'-C4'	-6.34	1.30	1.45
2	J	901	GCP	O4'-C4'	-6.33	1.30	1.45
2	S	901	GCP	O4'-C4'	-6.33	1.30	1.45
2	X	901	GCP	O4'-C4'	-6.33	1.30	1.45
2	J2	901	GCP	O4'-C4'	-6.32	1.30	1.45
2	E2	901	GCP	O4'-C4'	-6.31	1.31	1.45
2	I	901	GCP	O4'-C4'	-6.30	1.31	1.45
2	L	901	GCP	O4'-C4'	-6.30	1.31	1.45
2	T	901	GCP	O4'-C4'	-6.30	1.31	1.45
2	V	901	GCP	O4'-C4'	-6.30	1.31	1.45
2	K	901	GCP	O4'-C4'	-6.29	1.31	1.45
2	R	901	GCP	O4'-C4'	-6.29	1.31	1.45
2	F2	901	GCP	O4'-C4'	-6.29	1.31	1.45
2	C2	901	GCP	O4'-C4'	-6.29	1.31	1.45
2	Z	901	GCP	O4'-C4'	-6.29	1.31	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	901	GCP	O4'-C4'	-6.29	1.31	1.45
2	A2	901	GCP	O4'-C4'	-6.29	1.31	1.45
2	P	901	GCP	O4'-C4'	-6.28	1.31	1.45
2	N	901	GCP	O4'-C4'	-6.28	1.31	1.45
2	A	901	GCP	O4'-C4'	-6.28	1.31	1.45
2	E	901	GCP	O4'-C4'	-6.28	1.31	1.45
2	C	901	GCP	O4'-C4'	-6.27	1.31	1.45
2	F2	901	GCP	PB-O3A	5.81	1.64	1.58
2	L	901	GCP	PB-O3A	5.80	1.64	1.58
2	T	901	GCP	PB-O3A	5.79	1.64	1.58
2	A2	901	GCP	PB-O3A	5.79	1.64	1.58
2	G	901	GCP	PB-O3A	5.79	1.64	1.58
2	P	901	GCP	PB-O3A	5.79	1.64	1.58
2	A	901	GCP	PB-O3A	5.77	1.64	1.58
2	R	901	GCP	PB-O3A	5.77	1.64	1.58
2	Z	901	GCP	PB-O3A	5.77	1.64	1.58
2	K	901	GCP	PB-O3A	5.76	1.64	1.58
2	C2	901	GCP	PB-O3A	5.75	1.64	1.58
2	C	901	GCP	PB-O3A	5.75	1.64	1.58
2	E	901	GCP	PB-O3A	5.73	1.64	1.58
2	N	901	GCP	PB-O3A	5.73	1.64	1.58
2	I	901	GCP	PB-O3A	5.73	1.64	1.58
2	V	901	GCP	PB-O3A	5.72	1.64	1.58
2	X	901	GCP	PB-O3A	5.67	1.64	1.58
2	E2	901	GCP	PB-O3A	5.50	1.64	1.58
2	F	901	GCP	PB-O3A	5.49	1.64	1.58
2	M	901	GCP	PB-O3A	5.49	1.64	1.58
2	W	901	GCP	PB-O3A	5.49	1.64	1.58
2	I2	901	GCP	PB-O3A	5.49	1.64	1.58
2	H	901	GCP	PB-O3A	5.48	1.64	1.58
2	D	901	GCP	PB-O3A	5.47	1.64	1.58
2	O	901	GCP	PB-O3A	5.47	1.64	1.58
2	Q	901	GCP	PB-O3A	5.45	1.64	1.58
2	D2	901	GCP	PB-O3A	5.45	1.64	1.58
2	H2	901	GCP	PB-O3A	5.45	1.64	1.58
2	B2	901	GCP	PB-O3A	5.44	1.64	1.58
2	J	901	GCP	PB-O3A	5.44	1.64	1.58
2	B	901	GCP	PB-O3A	5.43	1.64	1.58
2	U	901	GCP	PB-O3A	5.43	1.64	1.58
2	Y	901	GCP	PB-O3A	5.42	1.64	1.58
2	S	901	GCP	PB-O3A	5.41	1.64	1.58
2	G2	901	GCP	PB-O3A	5.41	1.64	1.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J2	901	GCP	PB-O3A	5.39	1.64	1.58
2	I	901	GCP	PA-O3A	4.92	1.64	1.59
2	X	901	GCP	PA-O3A	4.91	1.64	1.59
2	E	901	GCP	PA-O3A	4.91	1.64	1.59
2	F2	901	GCP	PA-O3A	4.90	1.64	1.59
2	N	901	GCP	PA-O3A	4.89	1.64	1.59
2	K	901	GCP	PA-O3A	4.88	1.64	1.59
2	C2	901	GCP	PA-O3A	4.87	1.64	1.59
2	T	901	GCP	PA-O3A	4.87	1.64	1.59
2	A	901	GCP	PA-O3A	4.86	1.64	1.59
2	R	901	GCP	PA-O3A	4.85	1.64	1.59
2	G	901	GCP	PA-O3A	4.85	1.64	1.59
2	P	901	GCP	PA-O3A	4.85	1.64	1.59
2	Z	901	GCP	PA-O3A	4.83	1.64	1.59
2	C	901	GCP	PA-O3A	4.83	1.64	1.59
2	E2	901	GCP	C2-N2	4.82	1.45	1.34
2	D	901	GCP	C2-N2	4.82	1.45	1.34
2	L	901	GCP	PA-O3A	4.81	1.64	1.59
2	F	901	GCP	C2-N2	4.81	1.45	1.34
2	A2	901	GCP	PA-O3A	4.81	1.64	1.59
2	V	901	GCP	C2-N2	4.81	1.45	1.34
2	O	901	GCP	C2-N2	4.80	1.45	1.34
2	P	901	GCP	C2-N2	4.80	1.45	1.34
2	Y	901	GCP	C2-N2	4.80	1.45	1.34
2	B	901	GCP	C2-N2	4.80	1.45	1.34
2	D2	901	GCP	C2-N2	4.79	1.45	1.34
2	W	901	GCP	C2-N2	4.79	1.45	1.34
2	J2	901	GCP	C2-N2	4.79	1.45	1.34
2	G	901	GCP	C2-N2	4.79	1.45	1.34
2	S	901	GCP	C2-N2	4.79	1.45	1.34
2	J	901	GCP	C2-N2	4.79	1.45	1.34
2	X	901	GCP	C2-N2	4.79	1.45	1.34
2	H	901	GCP	C2-N2	4.78	1.45	1.34
2	I2	901	GCP	C2-N2	4.78	1.45	1.34
2	V	901	GCP	PA-O3A	4.78	1.64	1.59
2	L	901	GCP	C2-N2	4.78	1.45	1.34
2	Q	901	GCP	C2-N2	4.78	1.45	1.34
2	M	901	GCP	C2-N2	4.78	1.45	1.34
2	G2	901	GCP	C2-N2	4.78	1.45	1.34
2	I	901	GCP	C2-N2	4.78	1.45	1.34
2	U	901	GCP	C2-N2	4.78	1.45	1.34
2	H2	901	GCP	C2-N2	4.77	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C2	901	GCP	C2-N2	4.77	1.45	1.34
2	T	901	GCP	C2-N2	4.77	1.45	1.34
2	B2	901	GCP	C2-N2	4.77	1.45	1.34
2	N	901	GCP	C2-N2	4.77	1.45	1.34
2	E	901	GCP	C2-N2	4.77	1.45	1.34
2	Z	901	GCP	C2-N2	4.77	1.45	1.34
2	F2	901	GCP	C2-N2	4.77	1.45	1.34
2	K	901	GCP	C2-N2	4.76	1.45	1.34
2	A	901	GCP	C2-N2	4.76	1.45	1.34
2	A2	901	GCP	C2-N2	4.76	1.45	1.34
2	R	901	GCP	C2-N2	4.76	1.45	1.34
2	C	901	GCP	C2-N2	4.74	1.45	1.34
2	J	901	GCP	PA-O3A	4.70	1.64	1.59
2	B	901	GCP	PA-O3A	4.70	1.64	1.59
2	U	901	GCP	PA-O3A	4.67	1.64	1.59
2	I2	901	GCP	PA-O3A	4.65	1.64	1.59
2	H2	901	GCP	PA-O3A	4.65	1.64	1.59
2	J2	901	GCP	PA-O3A	4.65	1.64	1.59
2	F	901	GCP	PA-O3A	4.64	1.64	1.59
2	D2	901	GCP	PA-O3A	4.63	1.64	1.59
2	Q	901	GCP	PA-O3A	4.61	1.64	1.59
2	O	901	GCP	PA-O3A	4.61	1.64	1.59
2	B2	901	GCP	PA-O3A	4.61	1.64	1.59
2	S	901	GCP	PA-O3A	4.61	1.64	1.59
2	D	901	GCP	PA-O3A	4.61	1.64	1.59
2	E2	901	GCP	PA-O3A	4.60	1.64	1.59
2	G2	901	GCP	PA-O3A	4.59	1.64	1.59
2	H	901	GCP	PA-O3A	4.59	1.64	1.59
2	Y	901	GCP	PA-O3A	4.59	1.64	1.59
2	W	901	GCP	PA-O3A	4.58	1.64	1.59
2	M	901	GCP	PA-O3A	4.57	1.64	1.59
2	B2	901	GCP	C6-N1	-3.50	1.32	1.38
2	Y	901	GCP	C6-N1	-3.50	1.32	1.38
2	W	901	GCP	C6-N1	-3.50	1.32	1.38
2	Q	901	GCP	C6-N1	-3.49	1.32	1.38
2	D	901	GCP	C6-N1	-3.49	1.32	1.38
2	E2	901	GCP	C6-N1	-3.49	1.32	1.38
2	S	901	GCP	C6-N1	-3.49	1.32	1.38
2	M	901	GCP	C6-N1	-3.48	1.32	1.38
2	O	901	GCP	C6-N1	-3.48	1.32	1.38
2	F	901	GCP	C6-N1	-3.48	1.32	1.38
2	D2	901	GCP	C6-N1	-3.48	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	U	901	GCP	C6-N1	-3.48	1.32	1.38
2	H2	901	GCP	C6-N1	-3.47	1.32	1.38
2	J2	901	GCP	C6-N1	-3.47	1.32	1.38
2	J	901	GCP	C6-N1	-3.47	1.32	1.38
2	G2	901	GCP	C6-N1	-3.46	1.32	1.38
2	H	901	GCP	C6-N1	-3.46	1.32	1.38
2	I2	901	GCP	C6-N1	-3.45	1.32	1.38
2	T	901	GCP	C6-N1	-3.45	1.32	1.38
2	B	901	GCP	C6-N1	-3.45	1.32	1.38
2	C	901	GCP	C6-N1	-3.45	1.32	1.38
2	G	901	GCP	C6-N1	-3.44	1.32	1.38
2	A2	901	GCP	C6-N1	-3.44	1.32	1.38
2	A	901	GCP	C6-N1	-3.43	1.32	1.38
2	K	901	GCP	C6-N1	-3.43	1.32	1.38
2	F2	901	GCP	C6-N1	-3.43	1.32	1.38
2	L	901	GCP	C6-N1	-3.43	1.32	1.38
2	Z	901	GCP	C6-N1	-3.43	1.32	1.38
2	N	901	GCP	C6-N1	-3.41	1.32	1.38
2	C2	901	GCP	C6-N1	-3.41	1.32	1.38
2	I	901	GCP	C6-N1	-3.41	1.32	1.38
2	P	901	GCP	C6-N1	-3.40	1.32	1.38
2	V	901	GCP	C6-N1	-3.39	1.32	1.38
2	X	901	GCP	C6-N1	-3.39	1.32	1.38
2	R	901	GCP	C6-N1	-3.39	1.32	1.38
2	E	901	GCP	C6-N1	-3.36	1.32	1.38
2	I2	901	GCP	O3'-C3'	-2.86	1.35	1.43
2	G2	901	GCP	O3'-C3'	-2.84	1.35	1.43
2	D	901	GCP	O3'-C3'	-2.84	1.35	1.43
2	H	901	GCP	O3'-C3'	-2.84	1.35	1.43
2	M	901	GCP	O3'-C3'	-2.83	1.35	1.43
2	F	901	GCP	O3'-C3'	-2.83	1.36	1.43
2	S	901	GCP	O3'-C3'	-2.83	1.36	1.43
2	W	901	GCP	O3'-C3'	-2.83	1.36	1.43
2	Q	901	GCP	O3'-C3'	-2.82	1.36	1.43
2	B	901	GCP	O3'-C3'	-2.82	1.36	1.43
2	C	901	GCP	O3'-C3'	-2.82	1.36	1.43
2	J	901	GCP	O3'-C3'	-2.82	1.36	1.43
2	D2	901	GCP	O3'-C3'	-2.81	1.36	1.43
2	U	901	GCP	O3'-C3'	-2.81	1.36	1.43
2	B2	901	GCP	O3'-C3'	-2.81	1.36	1.43
2	V	901	GCP	O3'-C3'	-2.81	1.36	1.43
2	X	901	GCP	O3'-C3'	-2.81	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J2	901	GCP	O3'-C3'	-2.81	1.36	1.43
2	E2	901	GCP	O3'-C3'	-2.81	1.36	1.43
2	E	901	GCP	O3'-C3'	-2.80	1.36	1.43
2	Z	901	GCP	O3'-C3'	-2.80	1.36	1.43
2	Y	901	GCP	O3'-C3'	-2.80	1.36	1.43
2	P	901	GCP	O3'-C3'	-2.80	1.36	1.43
2	H2	901	GCP	O3'-C3'	-2.80	1.36	1.43
2	A2	901	GCP	O3'-C3'	-2.80	1.36	1.43
2	C2	901	GCP	O3'-C3'	-2.80	1.36	1.43
2	T	901	GCP	O3'-C3'	-2.80	1.36	1.43
2	F2	901	GCP	O3'-C3'	-2.80	1.36	1.43
2	G	901	GCP	O3'-C3'	-2.79	1.36	1.43
2	R	901	GCP	O3'-C3'	-2.79	1.36	1.43
2	O	901	GCP	O3'-C3'	-2.79	1.36	1.43
2	I	901	GCP	O3'-C3'	-2.78	1.36	1.43
2	A	901	GCP	O3'-C3'	-2.78	1.36	1.43
2	N	901	GCP	O3'-C3'	-2.78	1.36	1.43
2	L	901	GCP	O3'-C3'	-2.78	1.36	1.43
2	K	901	GCP	O3'-C3'	-2.77	1.36	1.43
2	T	901	GCP	O2'-C2'	2.77	1.49	1.43
2	G	901	GCP	O2'-C2'	2.75	1.49	1.43
2	I	901	GCP	O2'-C2'	2.74	1.49	1.43
2	F2	901	GCP	O2'-C2'	2.74	1.49	1.43
2	P	901	GCP	O2'-C2'	2.74	1.49	1.43
2	K	901	GCP	O2'-C2'	2.73	1.49	1.43
2	A	901	GCP	O2'-C2'	2.73	1.49	1.43
2	C2	901	GCP	O2'-C2'	2.73	1.49	1.43
2	R	901	GCP	O2'-C2'	2.73	1.49	1.43
2	X	901	GCP	O2'-C2'	2.73	1.49	1.43
2	A2	901	GCP	O2'-C2'	2.73	1.49	1.43
2	Z	901	GCP	O2'-C2'	2.73	1.49	1.43
2	V	901	GCP	O2'-C2'	2.73	1.49	1.43
2	N	901	GCP	O2'-C2'	2.72	1.49	1.43
2	B	901	GCP	O6-C6	-2.72	1.18	1.23
2	E	901	GCP	O2'-C2'	2.71	1.49	1.43
2	C	901	GCP	O2'-C2'	2.71	1.49	1.43
2	L	901	GCP	O2'-C2'	2.70	1.49	1.43
2	H	901	GCP	O2'-C2'	2.70	1.49	1.43
2	J	901	GCP	O2'-C2'	2.69	1.49	1.43
2	J2	901	GCP	O2'-C2'	2.68	1.49	1.43
2	W	901	GCP	O6-C6	-2.68	1.18	1.23
2	Q	901	GCP	O2'-C2'	2.68	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Q	901	GCP	O6-C6	-2.68	1.18	1.23
2	H	901	GCP	O6-C6	-2.68	1.18	1.23
2	Y	901	GCP	O6-C6	-2.68	1.18	1.23
2	M	901	GCP	O6-C6	-2.68	1.18	1.23
2	S	901	GCP	O6-C6	-2.68	1.18	1.23
2	H2	901	GCP	O6-C6	-2.68	1.18	1.23
2	J	901	GCP	O6-C6	-2.68	1.18	1.23
2	J2	901	GCP	O6-C6	-2.68	1.18	1.23
2	A	901	GCP	O6-C6	-2.68	1.18	1.23
2	F	901	GCP	O6-C6	-2.68	1.18	1.23
2	D2	901	GCP	O6-C6	-2.68	1.18	1.23
2	P	901	GCP	O6-C6	-2.68	1.18	1.23
2	U	901	GCP	O6-C6	-2.68	1.18	1.23
2	E2	901	GCP	O6-C6	-2.67	1.18	1.23
2	I2	901	GCP	O6-C6	-2.67	1.18	1.23
2	B	901	GCP	O2'-C2'	2.67	1.49	1.43
2	F	901	GCP	O2'-C2'	2.67	1.49	1.43
2	G2	901	GCP	O6-C6	-2.67	1.18	1.23
2	O	901	GCP	O6-C6	-2.67	1.18	1.23
2	M	901	GCP	O2'-C2'	2.67	1.49	1.43
2	G2	901	GCP	O2'-C2'	2.67	1.49	1.43
2	B2	901	GCP	O6-C6	-2.67	1.18	1.23
2	I2	901	GCP	O2'-C2'	2.67	1.49	1.43
2	D	901	GCP	O2'-C2'	2.67	1.49	1.43
2	D	901	GCP	O6-C6	-2.66	1.18	1.23
2	L	901	GCP	O6-C6	-2.66	1.18	1.23
2	D2	901	GCP	O2'-C2'	2.66	1.49	1.43
2	E	901	GCP	O6-C6	-2.66	1.18	1.23
2	Z	901	GCP	O6-C6	-2.66	1.18	1.23
2	C2	901	GCP	O6-C6	-2.66	1.18	1.23
2	T	901	GCP	O6-C6	-2.66	1.18	1.23
2	R	901	GCP	O6-C6	-2.66	1.18	1.23
2	N	901	GCP	O6-C6	-2.66	1.18	1.23
2	W	901	GCP	O2'-C2'	2.66	1.49	1.43
2	E2	901	GCP	O2'-C2'	2.66	1.49	1.43
2	Y	901	GCP	O2'-C2'	2.66	1.49	1.43
2	F2	901	GCP	O6-C6	-2.66	1.18	1.23
2	I	901	GCP	O6-C6	-2.65	1.18	1.23
2	G	901	GCP	O6-C6	-2.65	1.18	1.23
2	X	901	GCP	O6-C6	-2.65	1.18	1.23
2	H2	901	GCP	O2'-C2'	2.65	1.49	1.43
2	B2	901	GCP	O2'-C2'	2.64	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	S	901	GCP	O2'-C2'	2.64	1.49	1.43
2	O	901	GCP	O2'-C2'	2.64	1.49	1.43
2	K	901	GCP	O6-C6	-2.64	1.18	1.23
2	U	901	GCP	O2'-C2'	2.64	1.49	1.43
2	V	901	GCP	O6-C6	-2.62	1.18	1.23
2	C	901	GCP	O6-C6	-2.62	1.18	1.23
2	A2	901	GCP	O6-C6	-2.61	1.18	1.23
2	T	901	GCP	C5-N7	-2.50	1.34	1.39
2	P	901	GCP	C5-N7	-2.49	1.34	1.39
2	E	901	GCP	C5-N7	-2.49	1.34	1.39
2	N	901	GCP	C5-N7	-2.47	1.34	1.39
2	I	901	GCP	C5-N7	-2.47	1.34	1.39
2	A2	901	GCP	C5-N7	-2.47	1.34	1.39
2	Z	901	GCP	C5-N7	-2.46	1.34	1.39
2	L	901	GCP	C5-N7	-2.46	1.34	1.39
2	C2	901	GCP	C5-N7	-2.45	1.34	1.39
2	G	901	GCP	C5-N7	-2.45	1.34	1.39
2	X	901	GCP	C5-N7	-2.45	1.34	1.39
2	C	901	GCP	C5-N7	-2.44	1.34	1.39
2	K	901	GCP	C5-N7	-2.44	1.34	1.39
2	F2	901	GCP	C5-N7	-2.44	1.34	1.39
2	B2	901	GCP	C5-N7	-2.43	1.34	1.39
2	A	901	GCP	C5-N7	-2.43	1.34	1.39
2	E2	901	GCP	C5-N7	-2.42	1.34	1.39
2	S	901	GCP	C5-N7	-2.42	1.34	1.39
2	V	901	GCP	C5-N7	-2.42	1.34	1.39
2	R	901	GCP	C5-N7	-2.41	1.34	1.39
2	Y	901	GCP	C5-N7	-2.41	1.34	1.39
2	D	901	GCP	C5-N7	-2.40	1.34	1.39
2	Q	901	GCP	C5-N7	-2.40	1.34	1.39
2	J2	901	GCP	C5-N7	-2.40	1.34	1.39
2	F	901	GCP	C5-N7	-2.40	1.34	1.39
2	W	901	GCP	C5-N7	-2.40	1.34	1.39
2	D2	901	GCP	C5-N7	-2.40	1.34	1.39
2	U	901	GCP	C5-N7	-2.40	1.34	1.39
2	H2	901	GCP	C5-N7	-2.39	1.34	1.39
2	M	901	GCP	C5-N7	-2.38	1.34	1.39
2	G2	901	GCP	C5-N7	-2.38	1.34	1.39
2	H	901	GCP	C5-N7	-2.38	1.34	1.39
2	I2	901	GCP	C5-N7	-2.38	1.34	1.39
2	B	901	GCP	C5-N7	-2.38	1.34	1.39
2	O	901	GCP	C5-N7	-2.38	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	901	GCP	C5-N7	-2.37	1.34	1.39
2	W	901	GCP	PB-O2B	-2.32	1.50	1.56
2	M	901	GCP	PB-O2B	-2.32	1.50	1.56
2	E2	901	GCP	PB-O2B	-2.32	1.50	1.56
2	U	901	GCP	PB-O2B	-2.31	1.50	1.56
2	D	901	GCP	PB-O2B	-2.31	1.50	1.56
2	J2	901	GCP	PB-O2B	-2.31	1.50	1.56
2	I2	901	GCP	PB-O2B	-2.30	1.50	1.56
2	F	901	GCP	PB-O2B	-2.29	1.50	1.56
2	B2	901	GCP	PB-O2B	-2.29	1.50	1.56
2	H	901	GCP	PB-O2B	-2.29	1.50	1.56
2	Y	901	GCP	PB-O2B	-2.29	1.50	1.56
2	J	901	GCP	PB-O2B	-2.29	1.50	1.56
2	D2	901	GCP	PB-O2B	-2.29	1.50	1.56
2	O	901	GCP	PB-O2B	-2.28	1.50	1.56
2	H2	901	GCP	PB-O2B	-2.28	1.50	1.56
2	S	901	GCP	PB-O2B	-2.28	1.50	1.56
2	B	901	GCP	PB-O2B	-2.28	1.50	1.56
2	Q	901	GCP	PB-O2B	-2.28	1.50	1.56
2	G2	901	GCP	PB-O2B	-2.27	1.50	1.56
2	A2	901	GCP	PB-O2B	-2.20	1.51	1.56
2	I	901	GCP	PB-O2B	-2.20	1.51	1.56
2	F2	901	GCP	PB-O2B	-2.20	1.51	1.56
2	A	901	GCP	PB-O2B	-2.20	1.51	1.56
2	R	901	GCP	PB-O2B	-2.20	1.51	1.56
2	N	901	GCP	PB-O2B	-2.20	1.51	1.56
2	E	901	GCP	PB-O2B	-2.19	1.51	1.56
2	K	901	GCP	PB-O2B	-2.19	1.51	1.56
2	C2	901	GCP	PB-O2B	-2.18	1.51	1.56
2	T	901	GCP	PB-O2B	-2.18	1.51	1.56
2	P	901	GCP	PB-O2B	-2.17	1.51	1.56
2	L	901	GCP	PB-O2B	-2.17	1.51	1.56
2	G	901	GCP	PB-O2B	-2.17	1.51	1.56
2	X	901	GCP	PB-O2B	-2.17	1.51	1.56
2	V	901	GCP	PB-O2B	-2.16	1.51	1.56
2	Z	901	GCP	PB-O2B	-2.16	1.51	1.56
2	C	901	GCP	PB-O2B	-2.15	1.51	1.56

All (324) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	R	901	GCP	C5-C4-N3	-5.41	119.78	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	901	GCP	C5-C4-N3	-5.39	119.81	128.39
2	F2	901	GCP	C5-C4-N3	-5.38	119.83	128.39
2	I	901	GCP	C5-C4-N3	-5.37	119.84	128.39
2	K	901	GCP	C5-C4-N3	-5.37	119.85	128.39
2	C2	901	GCP	C5-C4-N3	-5.36	119.85	128.39
2	A2	901	GCP	C5-C4-N3	-5.36	119.85	128.39
2	G2	901	GCP	C5-C4-N3	-5.36	119.86	128.39
2	A	901	GCP	C5-C4-N3	-5.36	119.86	128.39
2	O	901	GCP	C5-C4-N3	-5.36	119.86	128.39
2	P	901	GCP	C5-C4-N3	-5.36	119.86	128.39
2	Z	901	GCP	C5-C4-N3	-5.36	119.86	128.39
2	N	901	GCP	C5-C4-N3	-5.36	119.87	128.39
2	L	901	GCP	C5-C4-N3	-5.35	119.87	128.39
2	C	901	GCP	C5-C4-N3	-5.35	119.88	128.39
2	B	901	GCP	C5-C4-N3	-5.34	119.89	128.39
2	V	901	GCP	C5-C4-N3	-5.34	119.89	128.39
2	E	901	GCP	C5-C4-N3	-5.34	119.89	128.39
2	T	901	GCP	C5-C4-N3	-5.34	119.90	128.39
2	Y	901	GCP	C5-C4-N3	-5.34	119.90	128.39
2	J2	901	GCP	C5-C4-N3	-5.33	119.90	128.39
2	B2	901	GCP	C5-C4-N3	-5.33	119.91	128.39
2	X	901	GCP	C5-C4-N3	-5.33	119.91	128.39
2	H	901	GCP	C5-C4-N3	-5.33	119.91	128.39
2	D2	901	GCP	C5-C4-N3	-5.32	119.92	128.39
2	M	901	GCP	C5-C4-N3	-5.32	119.92	128.39
2	U	901	GCP	C5-C4-N3	-5.32	119.92	128.39
2	S	901	GCP	C5-C4-N3	-5.32	119.92	128.39
2	I2	901	GCP	C5-C4-N3	-5.32	119.92	128.39
2	Q	901	GCP	C5-C4-N3	-5.32	119.93	128.39
2	D	901	GCP	C5-C4-N3	-5.31	119.93	128.39
2	W	901	GCP	C5-C4-N3	-5.31	119.94	128.39
2	H2	901	GCP	C5-C4-N3	-5.31	119.94	128.39
2	E2	901	GCP	C5-C4-N3	-5.31	119.94	128.39
2	F	901	GCP	C5-C4-N3	-5.30	119.95	128.39
2	J	901	GCP	C5-C4-N3	-5.28	119.98	128.39
2	G2	901	GCP	C2-N3-C4	4.53	120.09	112.30
2	O	901	GCP	C2-N3-C4	4.52	120.08	112.30
2	B	901	GCP	C2-N3-C4	4.51	120.07	112.30
2	J2	901	GCP	C2-N3-C4	4.51	120.07	112.30
2	I2	901	GCP	C2-N3-C4	4.50	120.05	112.30
2	R	901	GCP	C2-N3-C4	4.50	120.05	112.30
2	B2	901	GCP	C2-N3-C4	4.50	120.05	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	S	901	GCP	C2-N3-C4	4.50	120.05	112.30
2	U	901	GCP	C2-N3-C4	4.50	120.05	112.30
2	W	901	GCP	C2-N3-C4	4.50	120.04	112.30
2	D2	901	GCP	C2-N3-C4	4.50	120.04	112.30
2	M	901	GCP	C2-N3-C4	4.49	120.04	112.30
2	G	901	GCP	C2-N3-C4	4.49	120.04	112.30
2	Q	901	GCP	C2-N3-C4	4.49	120.04	112.30
2	F2	901	GCP	C2-N3-C4	4.49	120.03	112.30
2	Y	901	GCP	C2-N3-C4	4.49	120.03	112.30
2	F	901	GCP	C2-N3-C4	4.49	120.03	112.30
2	D	901	GCP	C2-N3-C4	4.48	120.02	112.30
2	H	901	GCP	C2-N3-C4	4.48	120.02	112.30
2	H2	901	GCP	C2-N3-C4	4.48	120.01	112.30
2	A2	901	GCP	C2-N3-C4	4.47	120.01	112.30
2	C2	901	GCP	C2-N3-C4	4.47	120.00	112.30
2	E2	901	GCP	C2-N3-C4	4.47	120.00	112.30
2	C	901	GCP	C2-N3-C4	4.47	119.99	112.30
2	N	901	GCP	C2-N3-C4	4.47	119.99	112.30
2	J	901	GCP	C2-N3-C4	4.46	119.99	112.30
2	E	901	GCP	C2-N3-C4	4.46	119.99	112.30
2	Z	901	GCP	C2-N3-C4	4.46	119.99	112.30
2	I	901	GCP	C2-N3-C4	4.46	119.98	112.30
2	A	901	GCP	C2-N3-C4	4.46	119.98	112.30
2	P	901	GCP	C2-N3-C4	4.46	119.98	112.30
2	T	901	GCP	C2-N3-C4	4.46	119.98	112.30
2	K	901	GCP	C2-N3-C4	4.45	119.97	112.30
2	X	901	GCP	C2-N3-C4	4.45	119.96	112.30
2	L	901	GCP	C2-N3-C4	4.44	119.95	112.30
2	V	901	GCP	C2-N3-C4	4.44	119.95	112.30
2	Z	901	GCP	N9-C4-N3	3.25	132.46	125.95
2	F2	901	GCP	N9-C4-N3	3.25	132.45	125.95
2	R	901	GCP	N9-C4-N3	3.25	132.45	125.95
2	G	901	GCP	N9-C4-N3	3.24	132.43	125.95
2	I	901	GCP	N9-C4-N3	3.23	132.42	125.95
2	C2	901	GCP	N9-C4-N3	3.23	132.42	125.95
2	A2	901	GCP	N9-C4-N3	3.23	132.42	125.95
2	E	901	GCP	N9-C4-N3	3.23	132.42	125.95
2	P	901	GCP	N9-C4-N3	3.23	132.41	125.95
2	K	901	GCP	N9-C4-N3	3.23	132.41	125.95
2	V	901	GCP	N9-C4-N3	3.22	132.40	125.95
2	N	901	GCP	N9-C4-N3	3.22	132.39	125.95
2	X	901	GCP	N9-C4-N3	3.22	132.39	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	L	901	GCP	N9-C4-N3	3.22	132.39	125.95
2	C	901	GCP	N9-C4-N3	3.21	132.38	125.95
2	T	901	GCP	N9-C4-N3	3.21	132.38	125.95
2	A	901	GCP	N9-C4-N3	3.21	132.37	125.95
2	B	901	GCP	N9-C4-N3	3.17	132.28	125.95
2	J2	901	GCP	N9-C4-N3	3.16	132.27	125.95
2	G2	901	GCP	N9-C4-N3	3.15	132.25	125.95
2	M	901	GCP	N9-C4-N3	3.15	132.24	125.95
2	S	901	GCP	N9-C4-N3	3.14	132.24	125.95
2	D	901	GCP	N9-C4-N3	3.14	132.24	125.95
2	B2	901	GCP	N9-C4-N3	3.14	132.24	125.95
2	Y	901	GCP	N9-C4-N3	3.14	132.24	125.95
2	I2	901	GCP	N9-C4-N3	3.14	132.24	125.95
2	Q	901	GCP	N9-C4-N3	3.14	132.23	125.95
2	D2	901	GCP	N9-C4-N3	3.14	132.23	125.95
2	U	901	GCP	N9-C4-N3	3.14	132.23	125.95
2	O	901	GCP	N9-C4-N3	3.14	132.23	125.95
2	H2	901	GCP	N9-C4-N3	3.14	132.23	125.95
2	F	901	GCP	N9-C4-N3	3.14	132.23	125.95
2	W	901	GCP	N9-C4-N3	3.14	132.23	125.95
2	H	901	GCP	N9-C4-N3	3.13	132.20	125.95
2	J	901	GCP	N9-C4-N3	3.12	132.19	125.95
2	E2	901	GCP	N9-C4-N3	3.11	132.18	125.95
2	Y	901	GCP	N9-C8-N7	-3.05	107.75	113.40
2	B2	901	GCP	N9-C8-N7	-3.04	107.76	113.40
2	W	901	GCP	N9-C8-N7	-3.03	107.79	113.40
2	J	901	GCP	N9-C8-N7	-3.03	107.79	113.40
2	S	901	GCP	N9-C8-N7	-3.03	107.79	113.40
2	Q	901	GCP	N9-C8-N7	-3.02	107.79	113.40
2	J2	901	GCP	N9-C8-N7	-3.02	107.80	113.40
2	F	901	GCP	N9-C8-N7	-3.02	107.81	113.40
2	E2	901	GCP	N9-C8-N7	-3.02	107.81	113.40
2	D	901	GCP	N9-C8-N7	-3.02	107.81	113.40
2	D2	901	GCP	N9-C8-N7	-3.01	107.81	113.40
2	U	901	GCP	N9-C8-N7	-3.01	107.81	113.40
2	H2	901	GCP	N9-C8-N7	-3.01	107.82	113.40
2	H	901	GCP	N9-C8-N7	-3.00	107.83	113.40
2	M	901	GCP	N9-C8-N7	-3.00	107.83	113.40
2	G2	901	GCP	N9-C8-N7	-3.00	107.83	113.40
2	L	901	GCP	C2-N1-C6	-3.00	119.67	125.11
2	R	901	GCP	C2-N1-C6	-3.00	119.67	125.11
2	O	901	GCP	N9-C8-N7	-3.00	107.84	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	901	GCP	N9-C8-N7	-3.00	107.84	113.40
2	I2	901	GCP	N9-C8-N7	-3.00	107.84	113.40
2	X	901	GCP	C2-N1-C6	-2.99	119.69	125.11
2	K	901	GCP	C2-N1-C6	-2.99	119.69	125.11
2	V	901	GCP	C2-N1-C6	-2.99	119.70	125.11
2	N	901	GCP	C2-N1-C6	-2.98	119.70	125.11
2	A	901	GCP	C2-N1-C6	-2.98	119.71	125.11
2	P	901	GCP	C2-N1-C6	-2.98	119.71	125.11
2	C	901	GCP	C2-N1-C6	-2.98	119.71	125.11
2	E	901	GCP	C2-N1-C6	-2.98	119.71	125.11
2	Z	901	GCP	C2-N1-C6	-2.98	119.72	125.11
2	F2	901	GCP	C2-N1-C6	-2.97	119.72	125.11
2	C2	901	GCP	C2-N1-C6	-2.97	119.73	125.11
2	G	901	GCP	C2-N1-C6	-2.96	119.75	125.11
2	A2	901	GCP	C2-N1-C6	-2.96	119.75	125.11
2	N	901	GCP	N9-C8-N7	-2.95	107.93	113.40
2	Y	901	GCP	C2-N1-C6	-2.95	119.76	125.11
2	M	901	GCP	C2-N1-C6	-2.95	119.77	125.11
2	H2	901	GCP	C2-N1-C6	-2.95	119.77	125.11
2	J	901	GCP	C2-N1-C6	-2.95	119.77	125.11
2	O	901	GCP	C2-N1-C6	-2.95	119.77	125.11
2	I	901	GCP	C2-N1-C6	-2.94	119.77	125.11
2	E2	901	GCP	C2-N1-C6	-2.94	119.77	125.11
2	A	901	GCP	N9-C8-N7	-2.94	107.94	113.40
2	F	901	GCP	C2-N1-C6	-2.94	119.78	125.11
2	T	901	GCP	C2-N1-C6	-2.94	119.78	125.11
2	T	901	GCP	N9-C8-N7	-2.94	107.95	113.40
2	D2	901	GCP	C2-N1-C6	-2.94	119.78	125.11
2	D	901	GCP	C2-N1-C6	-2.94	119.78	125.11
2	U	901	GCP	C2-N1-C6	-2.94	119.78	125.11
2	P	901	GCP	N9-C8-N7	-2.94	107.95	113.40
2	B	901	GCP	C2-N1-C6	-2.94	119.79	125.11
2	Q	901	GCP	C2-N1-C6	-2.93	119.79	125.11
2	S	901	GCP	C2-N1-C6	-2.93	119.79	125.11
2	I2	901	GCP	C2-N1-C6	-2.93	119.79	125.11
2	Z	901	GCP	N9-C8-N7	-2.93	107.97	113.40
2	G2	901	GCP	C2-N1-C6	-2.93	119.80	125.11
2	J2	901	GCP	C2-N1-C6	-2.93	119.80	125.11
2	A2	901	GCP	N9-C8-N7	-2.92	107.98	113.40
2	C	901	GCP	N9-C8-N7	-2.92	107.98	113.40
2	C2	901	GCP	N9-C8-N7	-2.92	107.98	113.40
2	W	901	GCP	C2-N1-C6	-2.92	119.81	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B2	901	GCP	C2-N1-C6	-2.92	119.82	125.11
2	G	901	GCP	N9-C8-N7	-2.91	108.00	113.40
2	I	901	GCP	N9-C8-N7	-2.91	108.00	113.40
2	X	901	GCP	N9-C8-N7	-2.91	108.00	113.40
2	E	901	GCP	N9-C8-N7	-2.91	108.00	113.40
2	R	901	GCP	N9-C8-N7	-2.91	108.00	113.40
2	F2	901	GCP	N9-C8-N7	-2.91	108.00	113.40
2	H	901	GCP	C2-N1-C6	-2.91	119.84	125.11
2	V	901	GCP	N9-C8-N7	-2.91	108.01	113.40
2	L	901	GCP	N9-C8-N7	-2.90	108.02	113.40
2	K	901	GCP	N9-C8-N7	-2.90	108.03	113.40
2	C	901	GCP	PB-O3A-PA	-2.88	122.99	132.37
2	P	901	GCP	PB-O3A-PA	-2.87	122.99	132.37
2	F2	901	GCP	PB-O3A-PA	-2.87	122.99	132.37
2	E	901	GCP	PB-O3A-PA	-2.87	123.00	132.37
2	I	901	GCP	PB-O3A-PA	-2.87	123.00	132.37
2	K	901	GCP	PB-O3A-PA	-2.87	123.00	132.37
2	L	901	GCP	PB-O3A-PA	-2.87	123.01	132.37
2	R	901	GCP	PB-O3A-PA	-2.87	123.01	132.37
2	N	901	GCP	PB-O3A-PA	-2.87	123.02	132.37
2	G	901	GCP	PB-O3A-PA	-2.87	123.02	132.37
2	C2	901	GCP	PB-O3A-PA	-2.86	123.02	132.37
2	A	901	GCP	PB-O3A-PA	-2.86	123.02	132.37
2	Z	901	GCP	PB-O3A-PA	-2.86	123.04	132.37
2	A2	901	GCP	PB-O3A-PA	-2.86	123.05	132.37
2	X	901	GCP	PB-O3A-PA	-2.86	123.05	132.37
2	T	901	GCP	PB-O3A-PA	-2.86	123.05	132.37
2	V	901	GCP	PB-O3A-PA	-2.85	123.07	132.37
2	H2	901	GCP	C5-C6-N1	2.79	120.36	113.25
2	O	901	GCP	C5-C6-N1	2.79	120.34	113.25
2	E2	901	GCP	C5-C6-N1	2.78	120.34	113.25
2	F	901	GCP	C5-C6-N1	2.78	120.33	113.25
2	J	901	GCP	C5-C6-N1	2.78	120.32	113.25
2	S	901	GCP	C5-C6-N1	2.78	120.32	113.25
2	U	901	GCP	C5-C6-N1	2.78	120.32	113.25
2	D2	901	GCP	C5-C6-N1	2.77	120.32	113.25
2	B2	901	GCP	C5-C6-N1	2.77	120.32	113.25
2	W	901	GCP	C5-C6-N1	2.77	120.32	113.25
2	D	901	GCP	C5-C6-N1	2.77	120.31	113.25
2	M	901	GCP	C5-C6-N1	2.77	120.31	113.25
2	Y	901	GCP	C5-C6-N1	2.77	120.31	113.25
2	I2	901	GCP	C5-C6-N1	2.77	120.31	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Q	901	GCP	C5-C6-N1	2.77	120.31	113.25
2	G2	901	GCP	C5-C6-N1	2.76	120.29	113.25
2	C	901	GCP	C5-C6-N1	2.76	120.28	113.25
2	A	901	GCP	C5-C6-N1	2.76	120.28	113.25
2	K	901	GCP	C5-C6-N1	2.76	120.28	113.25
2	F2	901	GCP	C5-C6-N1	2.76	120.28	113.25
2	L	901	GCP	C5-C6-N1	2.76	120.28	113.25
2	B	901	GCP	C5-C6-N1	2.76	120.27	113.25
2	J2	901	GCP	C5-C6-N1	2.76	120.27	113.25
2	H	901	GCP	C5-C6-N1	2.76	120.27	113.25
2	R	901	GCP	C5-C6-N1	2.76	120.27	113.25
2	A2	901	GCP	C5-C6-N1	2.75	120.27	113.25
2	X	901	GCP	C5-C6-N1	2.75	120.27	113.25
2	N	901	GCP	C5-C6-N1	2.75	120.26	113.25
2	G	901	GCP	C5-C6-N1	2.75	120.26	113.25
2	V	901	GCP	C5-C6-N1	2.75	120.26	113.25
2	Z	901	GCP	C5-C6-N1	2.75	120.25	113.25
2	P	901	GCP	C5-C6-N1	2.75	120.25	113.25
2	T	901	GCP	C5-C6-N1	2.75	120.25	113.25
2	C2	901	GCP	C5-C6-N1	2.75	120.24	113.25
2	E	901	GCP	C5-C6-N1	2.75	120.24	113.25
2	I	901	GCP	C5-C6-N1	2.74	120.23	113.25
2	I2	901	GCP	PB-O3A-PA	-2.72	123.51	132.37
2	Q	901	GCP	PB-O3A-PA	-2.71	123.52	132.37
2	F	901	GCP	PB-O3A-PA	-2.71	123.53	132.37
2	D	901	GCP	PB-O3A-PA	-2.71	123.53	132.37
2	E2	901	GCP	PB-O3A-PA	-2.71	123.53	132.37
2	B	901	GCP	PB-O3A-PA	-2.71	123.53	132.37
2	M	901	GCP	PB-O3A-PA	-2.71	123.54	132.37
2	U	901	GCP	PB-O3A-PA	-2.71	123.54	132.37
2	D2	901	GCP	PB-O3A-PA	-2.70	123.54	132.37
2	S	901	GCP	PB-O3A-PA	-2.70	123.55	132.37
2	W	901	GCP	PB-O3A-PA	-2.70	123.56	132.37
2	J	901	GCP	PB-O3A-PA	-2.70	123.56	132.37
2	J2	901	GCP	PB-O3A-PA	-2.70	123.57	132.37
2	O	901	GCP	PB-O3A-PA	-2.70	123.57	132.37
2	Y	901	GCP	PB-O3A-PA	-2.69	123.58	132.37
2	B2	901	GCP	PB-O3A-PA	-2.69	123.58	132.37
2	G2	901	GCP	PB-O3A-PA	-2.69	123.58	132.37
2	H2	901	GCP	PB-O3A-PA	-2.69	123.59	132.37
2	H	901	GCP	PB-O3A-PA	-2.69	123.60	132.37
2	T	901	GCP	O6-C6-C5	-2.63	119.58	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	901	GCP	O6-C6-C5	-2.63	119.59	126.53
2	L	901	GCP	O6-C6-C5	-2.63	119.60	126.53
2	A	901	GCP	O6-C6-C5	-2.63	119.60	126.53
2	A2	901	GCP	O6-C6-C5	-2.62	119.60	126.53
2	K	901	GCP	O6-C6-C5	-2.62	119.60	126.53
2	G	901	GCP	O6-C6-C5	-2.62	119.61	126.53
2	Z	901	GCP	O6-C6-C5	-2.62	119.61	126.53
2	I	901	GCP	O6-C6-C5	-2.62	119.62	126.53
2	C2	901	GCP	O6-C6-C5	-2.62	119.63	126.53
2	N	901	GCP	O6-C6-C5	-2.61	119.63	126.53
2	E	901	GCP	O6-C6-C5	-2.61	119.64	126.53
2	F2	901	GCP	O6-C6-C5	-2.61	119.64	126.53
2	X	901	GCP	O6-C6-C5	-2.61	119.65	126.53
2	P	901	GCP	O6-C6-C5	-2.61	119.66	126.53
2	R	901	GCP	O6-C6-C5	-2.60	119.66	126.53
2	V	901	GCP	O6-C6-C5	-2.60	119.67	126.53
2	S	901	GCP	O6-C6-C5	-2.58	119.73	126.53
2	W	901	GCP	O6-C6-C5	-2.57	119.74	126.53
2	D	901	GCP	O6-C6-C5	-2.57	119.74	126.53
2	Y	901	GCP	O6-C6-C5	-2.57	119.75	126.53
2	H2	901	GCP	O6-C6-C5	-2.57	119.76	126.53
2	U	901	GCP	O6-C6-C5	-2.57	119.76	126.53
2	F	901	GCP	O6-C6-C5	-2.56	119.76	126.53
2	B2	901	GCP	O6-C6-C5	-2.56	119.76	126.53
2	Q	901	GCP	O6-C6-C5	-2.56	119.77	126.53
2	D2	901	GCP	O6-C6-C5	-2.56	119.77	126.53
2	M	901	GCP	O6-C6-C5	-2.56	119.77	126.53
2	G2	901	GCP	O6-C6-C5	-2.56	119.78	126.53
2	O	901	GCP	O6-C6-C5	-2.56	119.78	126.53
2	J2	901	GCP	O6-C6-C5	-2.56	119.78	126.53
2	E2	901	GCP	O6-C6-C5	-2.55	119.79	126.53
2	B	901	GCP	O6-C6-C5	-2.55	119.80	126.53
2	J	901	GCP	O6-C6-C5	-2.55	119.80	126.53
2	H	901	GCP	O6-C6-C5	-2.55	119.81	126.53
2	I2	901	GCP	O6-C6-C5	-2.54	119.81	126.53
2	Y	901	GCP	C8-N7-C5	2.10	108.00	104.26
2	D	901	GCP	C8-N7-C5	2.09	107.98	104.26
2	E2	901	GCP	C8-N7-C5	2.08	107.97	104.26
2	H	901	GCP	C8-N7-C5	2.08	107.97	104.26
2	M	901	GCP	C8-N7-C5	2.08	107.96	104.26
2	S	901	GCP	C8-N7-C5	2.08	107.96	104.26
2	G2	901	GCP	C8-N7-C5	2.08	107.96	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	T	901	GCP	C8-N7-C5	2.08	107.96	104.26
2	Q	901	GCP	C8-N7-C5	2.08	107.96	104.26
2	W	901	GCP	C8-N7-C5	2.08	107.96	104.26
2	B2	901	GCP	C8-N7-C5	2.07	107.96	104.26
2	P	901	GCP	C8-N7-C5	2.07	107.95	104.26
2	D2	901	GCP	C8-N7-C5	2.07	107.94	104.26
2	U	901	GCP	C8-N7-C5	2.07	107.94	104.26
2	J2	901	GCP	C8-N7-C5	2.07	107.94	104.26
2	A	901	GCP	C8-N7-C5	2.07	107.94	104.26
2	F	901	GCP	C8-N7-C5	2.06	107.94	104.26
2	Z	901	GCP	C8-N7-C5	2.06	107.93	104.26
2	O	901	GCP	C8-N7-C5	2.06	107.93	104.26
2	I2	901	GCP	C8-N7-C5	2.06	107.93	104.26
2	N	901	GCP	C8-N7-C5	2.06	107.93	104.26
2	C2	901	GCP	C8-N7-C5	2.05	107.92	104.26
2	A2	901	GCP	C8-N7-C5	2.05	107.92	104.26
2	B	901	GCP	C8-N7-C5	2.05	107.91	104.26
2	E	901	GCP	C8-N7-C5	2.05	107.91	104.26
2	I	901	GCP	C8-N7-C5	2.05	107.91	104.26
2	J	901	GCP	C8-N7-C5	2.05	107.91	104.26
2	C	901	GCP	C8-N7-C5	2.05	107.91	104.26
2	V	901	GCP	C8-N7-C5	2.04	107.90	104.26
2	G	901	GCP	C8-N7-C5	2.04	107.90	104.26
2	X	901	GCP	C8-N7-C5	2.04	107.90	104.26
2	H2	901	GCP	C8-N7-C5	2.04	107.90	104.26
2	L	901	GCP	C8-N7-C5	2.04	107.89	104.26
2	R	901	GCP	C8-N7-C5	2.04	107.89	104.26
2	F2	901	GCP	C8-N7-C5	2.03	107.88	104.26
2	K	901	GCP	C8-N7-C5	2.03	107.88	104.26

There are no chirality outliers.

All (76) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	D2	901	GCP	PB-C3B-PG-O1G
2	D2	901	GCP	C5'-O5'-PA-O1A
2	B2	901	GCP	PB-C3B-PG-O1G
2	B2	901	GCP	C5'-O5'-PA-O1A
2	B	901	GCP	PB-C3B-PG-O1G
2	B	901	GCP	C5'-O5'-PA-O1A
2	D	901	GCP	PB-C3B-PG-O1G
2	D	901	GCP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
2	F	901	GCP	PB-C3B-PG-O1G
2	F	901	GCP	C5'-O5'-PA-O1A
2	H	901	GCP	PB-C3B-PG-O1G
2	H	901	GCP	C5'-O5'-PA-O1A
2	J	901	GCP	PB-C3B-PG-O1G
2	J	901	GCP	C5'-O5'-PA-O1A
2	M	901	GCP	PB-C3B-PG-O1G
2	M	901	GCP	C5'-O5'-PA-O1A
2	O	901	GCP	PB-C3B-PG-O1G
2	O	901	GCP	C5'-O5'-PA-O1A
2	Q	901	GCP	PB-C3B-PG-O1G
2	Q	901	GCP	C5'-O5'-PA-O1A
2	S	901	GCP	PB-C3B-PG-O1G
2	S	901	GCP	C5'-O5'-PA-O1A
2	U	901	GCP	PB-C3B-PG-O1G
2	U	901	GCP	C5'-O5'-PA-O1A
2	W	901	GCP	PB-C3B-PG-O1G
2	W	901	GCP	C5'-O5'-PA-O1A
2	Y	901	GCP	PB-C3B-PG-O1G
2	Y	901	GCP	C5'-O5'-PA-O1A
2	E2	901	GCP	PB-C3B-PG-O1G
2	E2	901	GCP	C5'-O5'-PA-O1A
2	G2	901	GCP	PB-C3B-PG-O1G
2	G2	901	GCP	C5'-O5'-PA-O1A
2	H2	901	GCP	PB-C3B-PG-O1G
2	H2	901	GCP	C5'-O5'-PA-O1A
2	I2	901	GCP	PB-C3B-PG-O1G
2	I2	901	GCP	C5'-O5'-PA-O1A
2	J2	901	GCP	PB-C3B-PG-O1G
2	J2	901	GCP	C5'-O5'-PA-O1A
2	D2	901	GCP	PB-C3B-PG-O3G
2	D2	901	GCP	C5'-O5'-PA-O3A
2	B2	901	GCP	PB-C3B-PG-O3G
2	B2	901	GCP	C5'-O5'-PA-O3A
2	B	901	GCP	PB-C3B-PG-O3G
2	B	901	GCP	C5'-O5'-PA-O3A
2	D	901	GCP	PB-C3B-PG-O3G
2	D	901	GCP	C5'-O5'-PA-O3A
2	F	901	GCP	PB-C3B-PG-O3G
2	F	901	GCP	C5'-O5'-PA-O3A
2	H	901	GCP	PB-C3B-PG-O3G
2	H	901	GCP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
2	J	901	GCP	PB-C3B-PG-O3G
2	J	901	GCP	C5'-O5'-PA-O3A
2	M	901	GCP	PB-C3B-PG-O3G
2	M	901	GCP	C5'-O5'-PA-O3A
2	O	901	GCP	PB-C3B-PG-O3G
2	O	901	GCP	C5'-O5'-PA-O3A
2	Q	901	GCP	PB-C3B-PG-O3G
2	Q	901	GCP	C5'-O5'-PA-O3A
2	S	901	GCP	PB-C3B-PG-O3G
2	S	901	GCP	C5'-O5'-PA-O3A
2	U	901	GCP	PB-C3B-PG-O3G
2	U	901	GCP	C5'-O5'-PA-O3A
2	W	901	GCP	PB-C3B-PG-O3G
2	W	901	GCP	C5'-O5'-PA-O3A
2	Y	901	GCP	PB-C3B-PG-O3G
2	Y	901	GCP	C5'-O5'-PA-O3A
2	E2	901	GCP	PB-C3B-PG-O3G
2	E2	901	GCP	C5'-O5'-PA-O3A
2	G2	901	GCP	PB-C3B-PG-O3G
2	G2	901	GCP	C5'-O5'-PA-O3A
2	H2	901	GCP	PB-C3B-PG-O3G
2	H2	901	GCP	C5'-O5'-PA-O3A
2	I2	901	GCP	PB-C3B-PG-O3G
2	I2	901	GCP	C5'-O5'-PA-O3A
2	J2	901	GCP	PB-C3B-PG-O3G
2	J2	901	GCP	C5'-O5'-PA-O3A

There are no ring outliers.

36 monomers are involved in 123 short contacts:

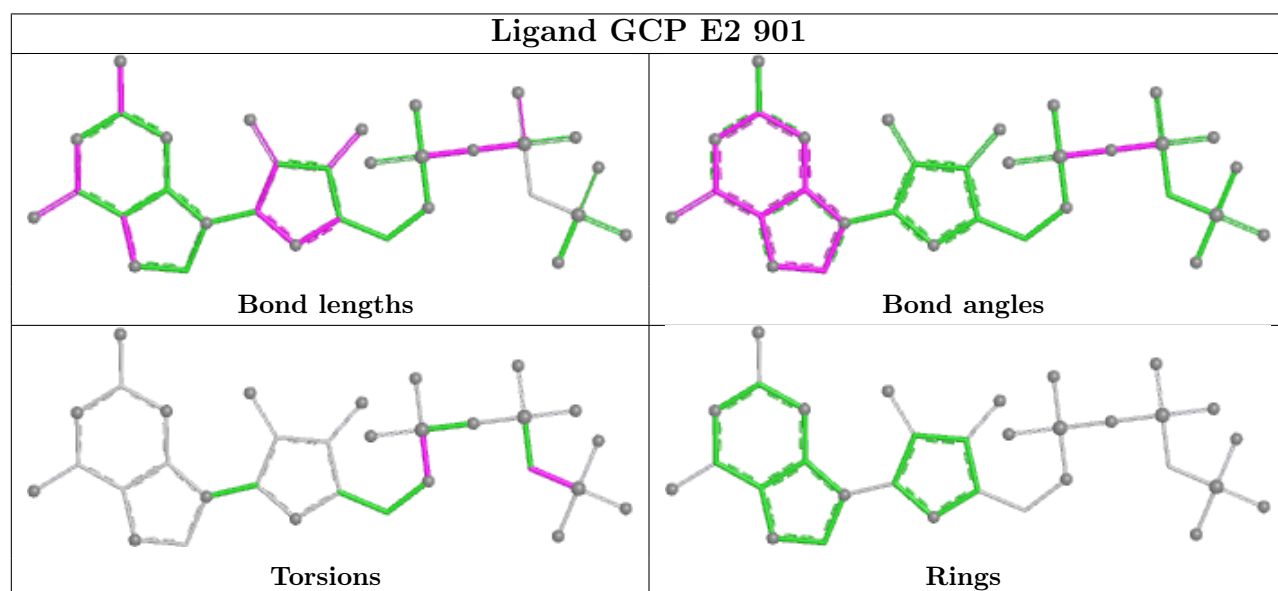
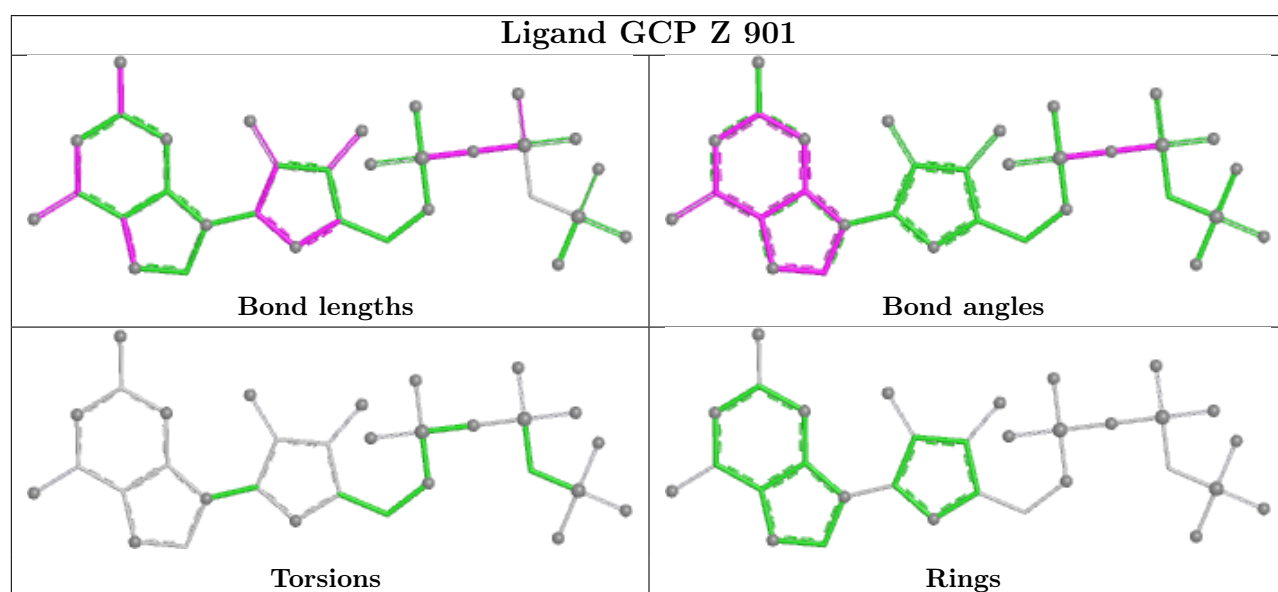
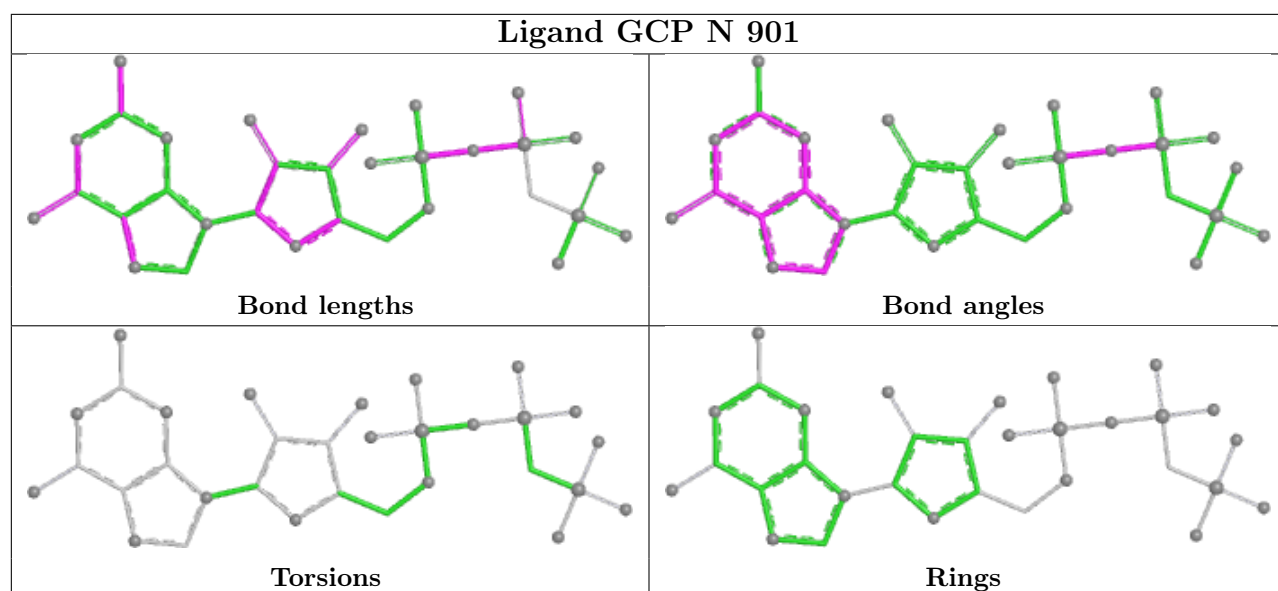
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	N	901	GCP	3	0
2	Z	901	GCP	4	0
2	E2	901	GCP	3	0
2	O	901	GCP	4	0
2	P	901	GCP	3	0
2	W	901	GCP	3	0
2	J	901	GCP	3	0
2	A2	901	GCP	3	0
2	A	901	GCP	4	0
2	B2	901	GCP	3	0
2	C2	901	GCP	3	0

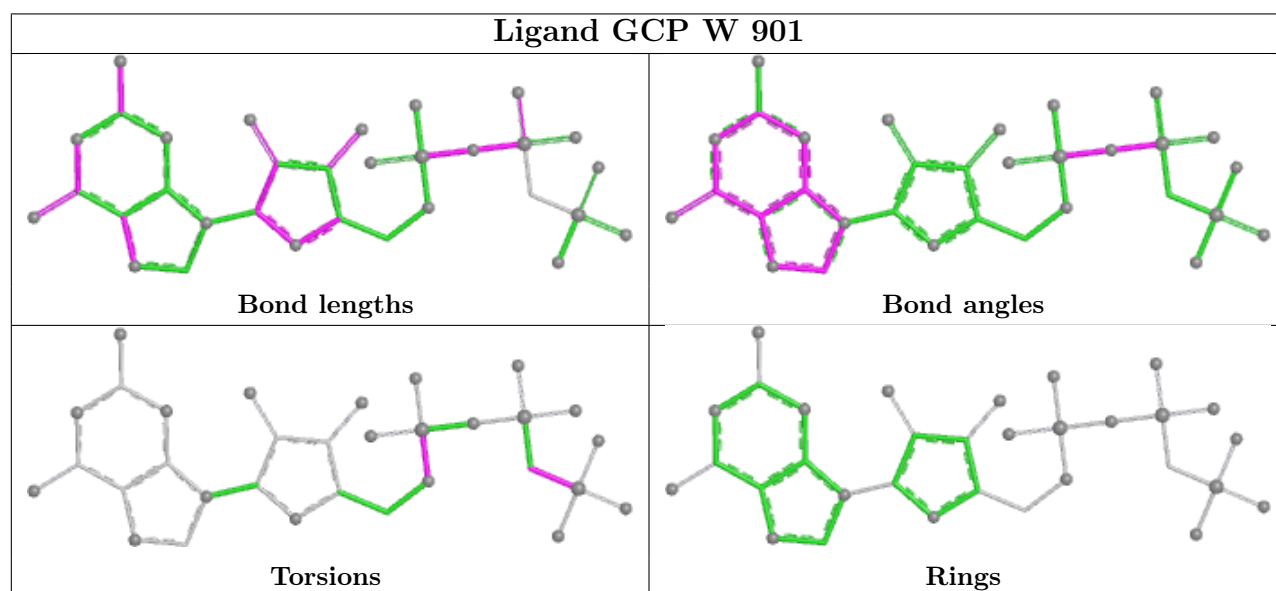
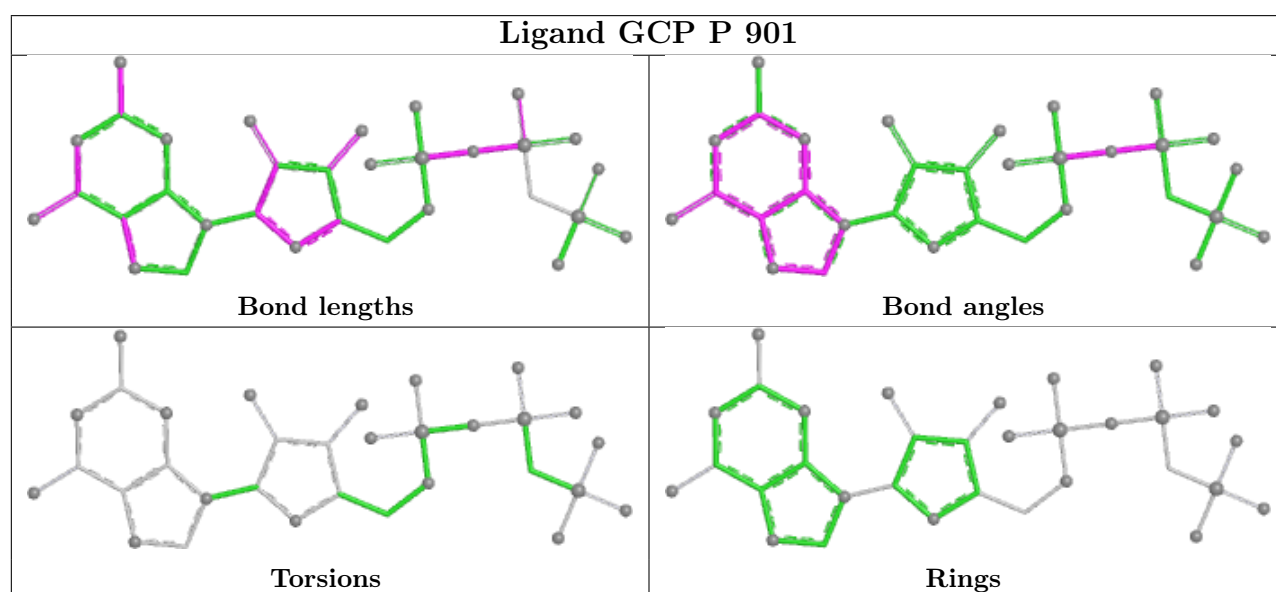
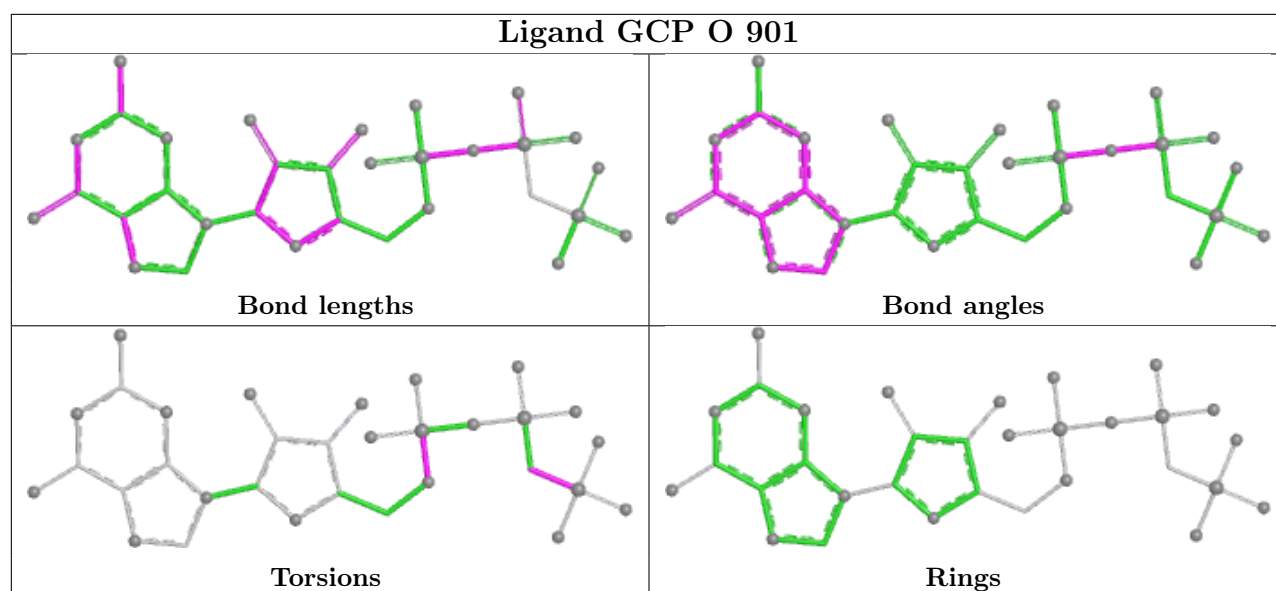
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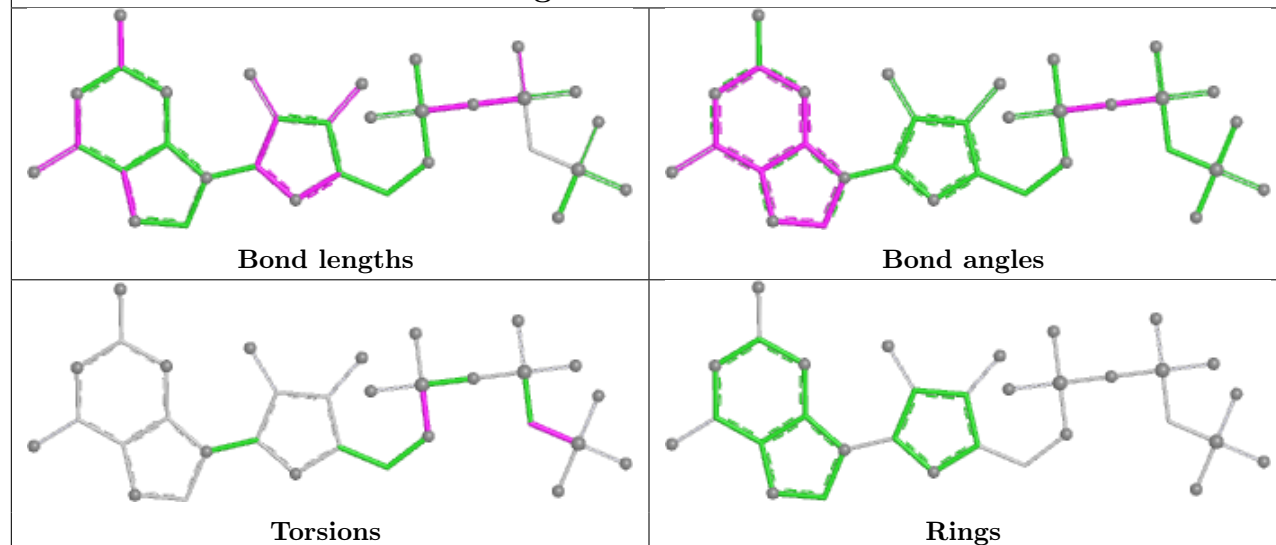
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	J2	901	GCP	4	0
2	T	901	GCP	4	0
2	I	901	GCP	5	0
2	L	901	GCP	4	0
2	S	901	GCP	4	0
2	G2	901	GCP	3	0
2	V	901	GCP	3	0
2	H	901	GCP	3	0
2	D	901	GCP	3	0
2	U	901	GCP	3	0
2	Q	901	GCP	4	0
2	R	901	GCP	3	0
2	C	901	GCP	3	0
2	F2	901	GCP	3	0
2	X	901	GCP	3	0
2	K	901	GCP	5	0
2	Y	901	GCP	3	0
2	H2	901	GCP	3	0
2	E	901	GCP	3	0
2	G	901	GCP	5	0
2	F	901	GCP	3	0
2	M	901	GCP	4	0
2	D2	901	GCP	3	0
2	B	901	GCP	3	0
2	I2	901	GCP	3	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

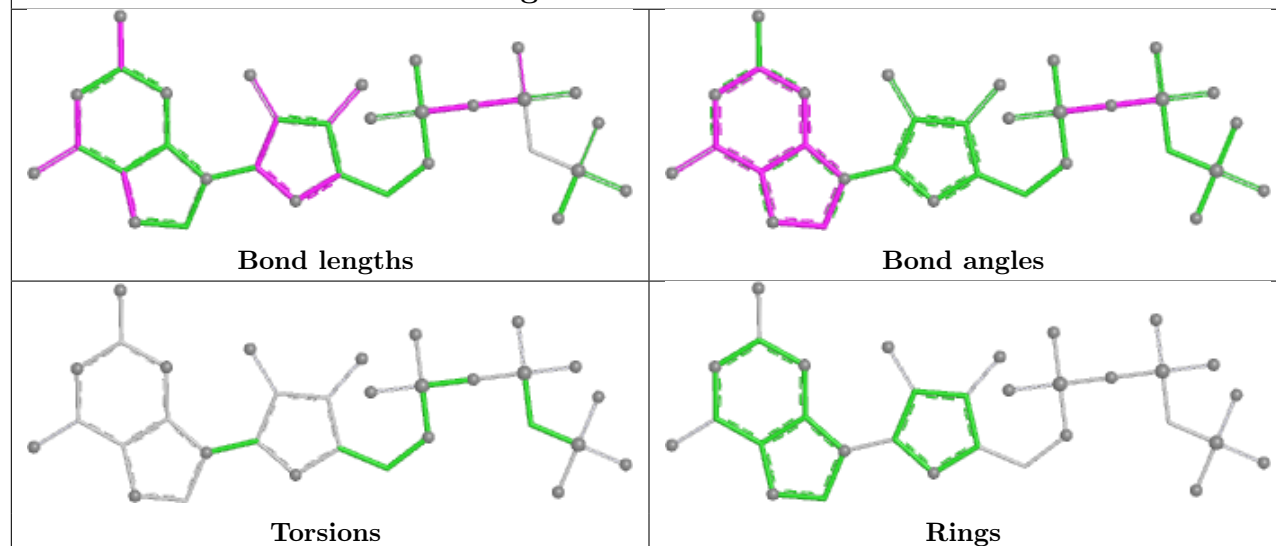




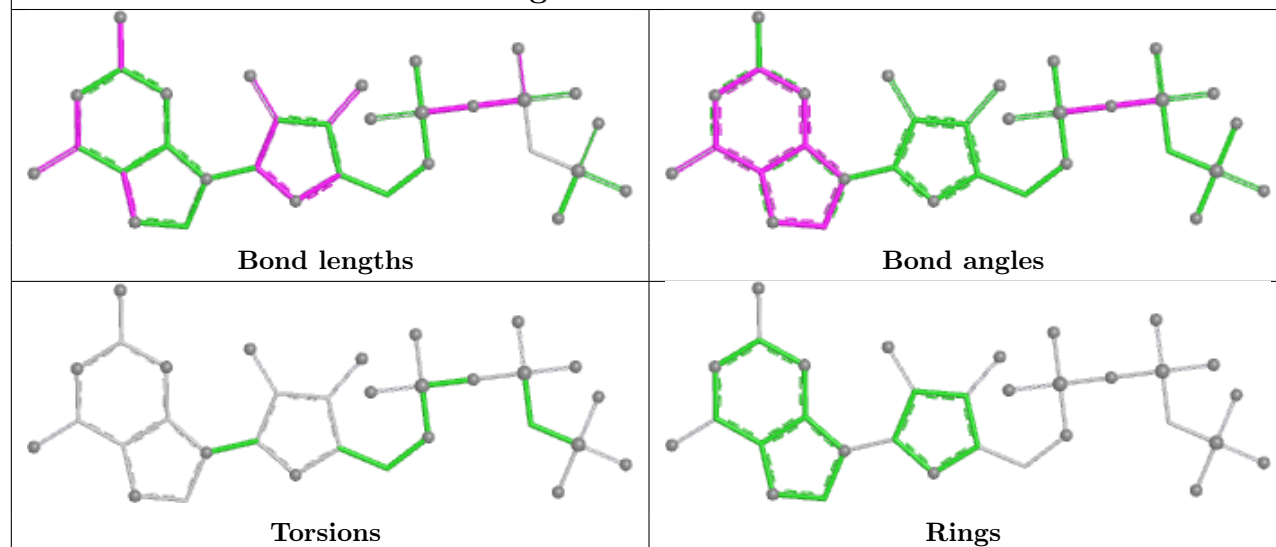
Ligand GCP J 901



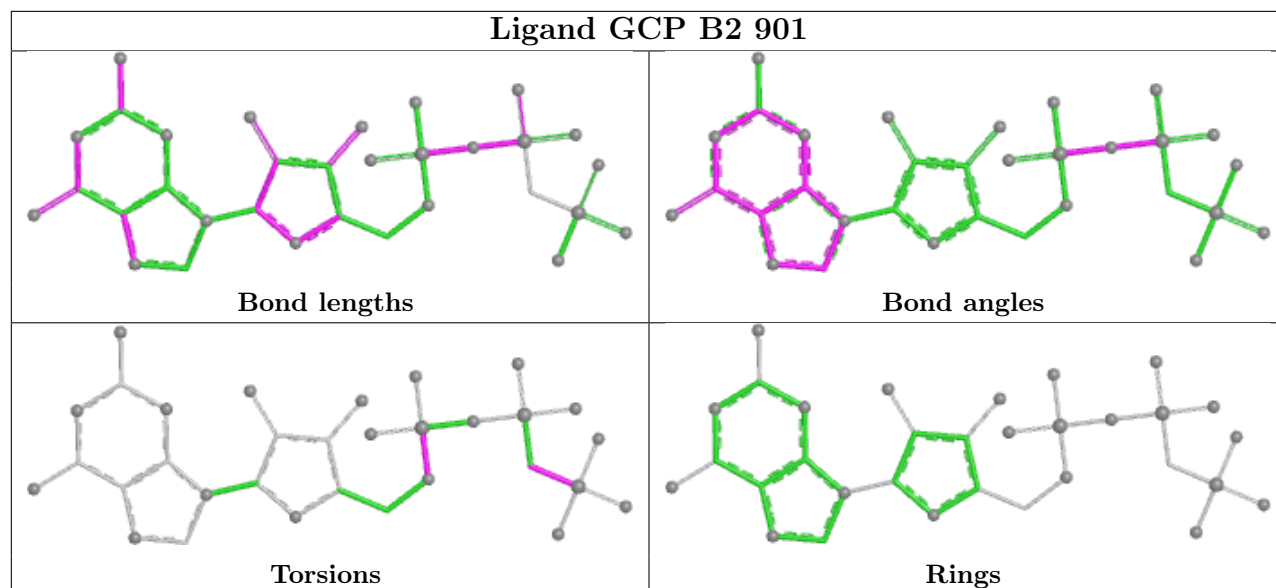
Ligand GCP A2 901



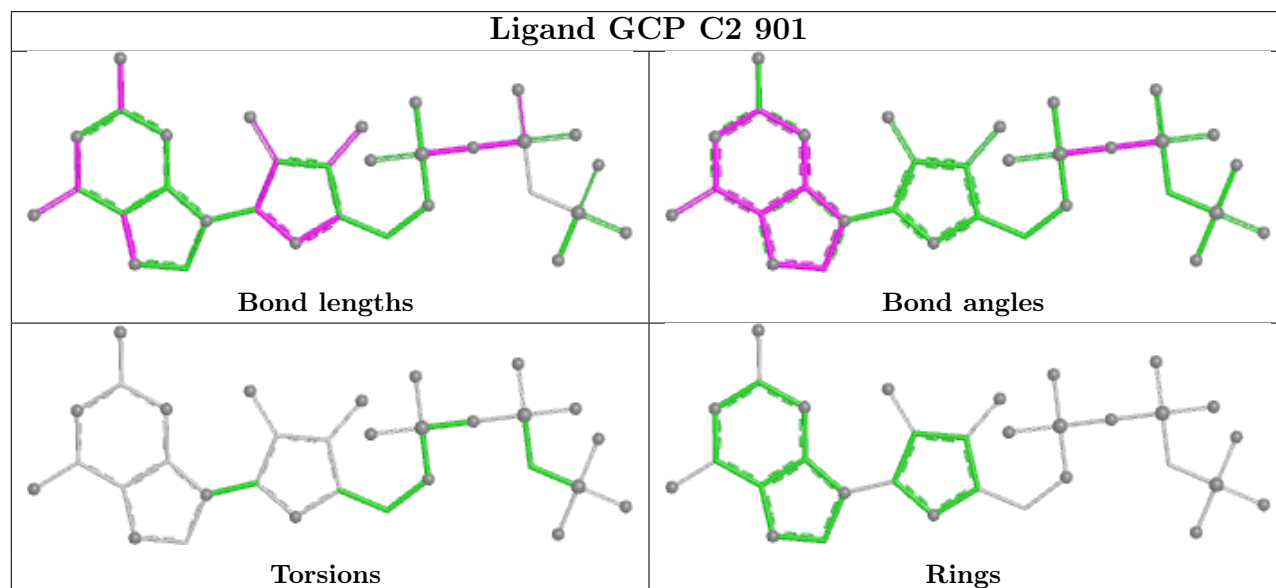
Ligand GCP A 901



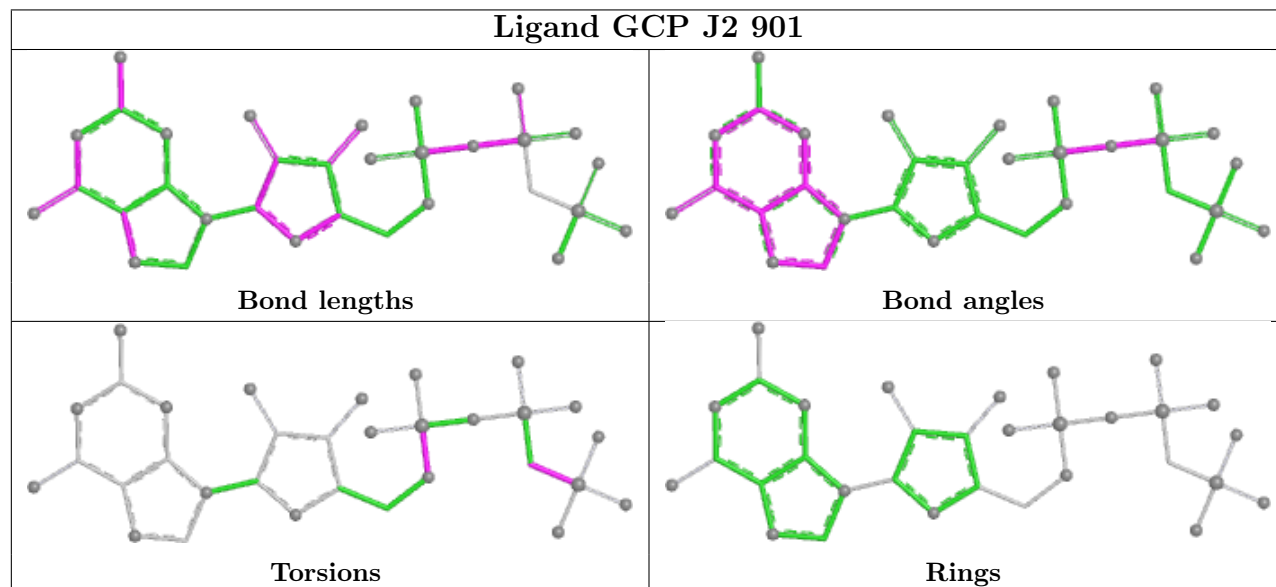
Ligand GCP B2 901

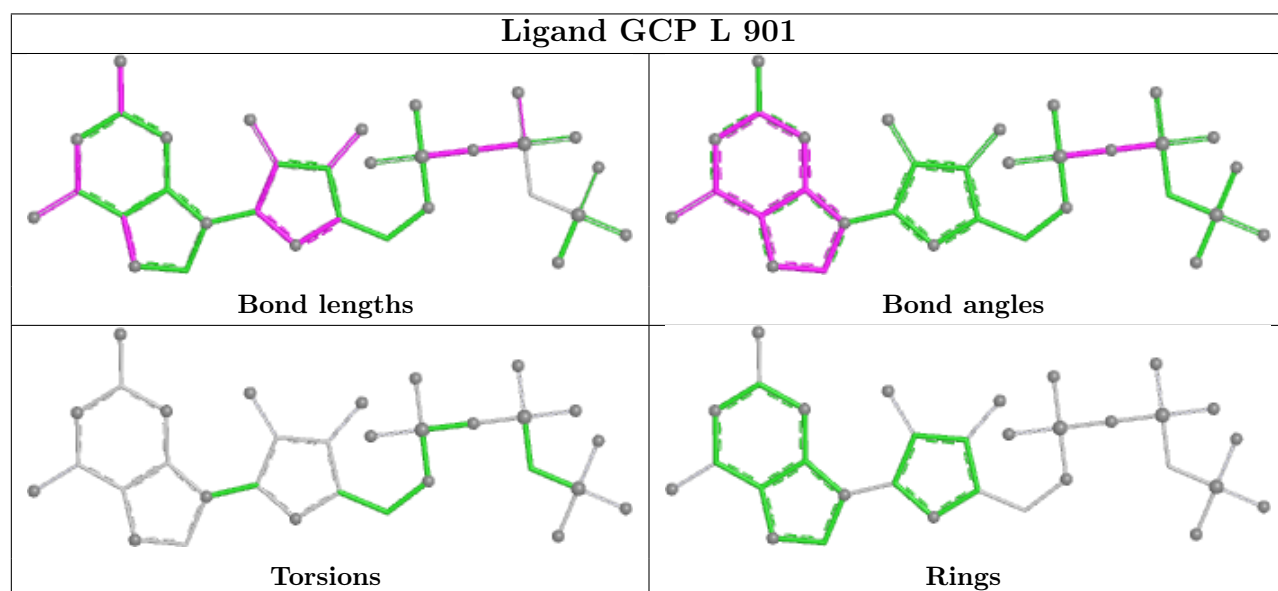
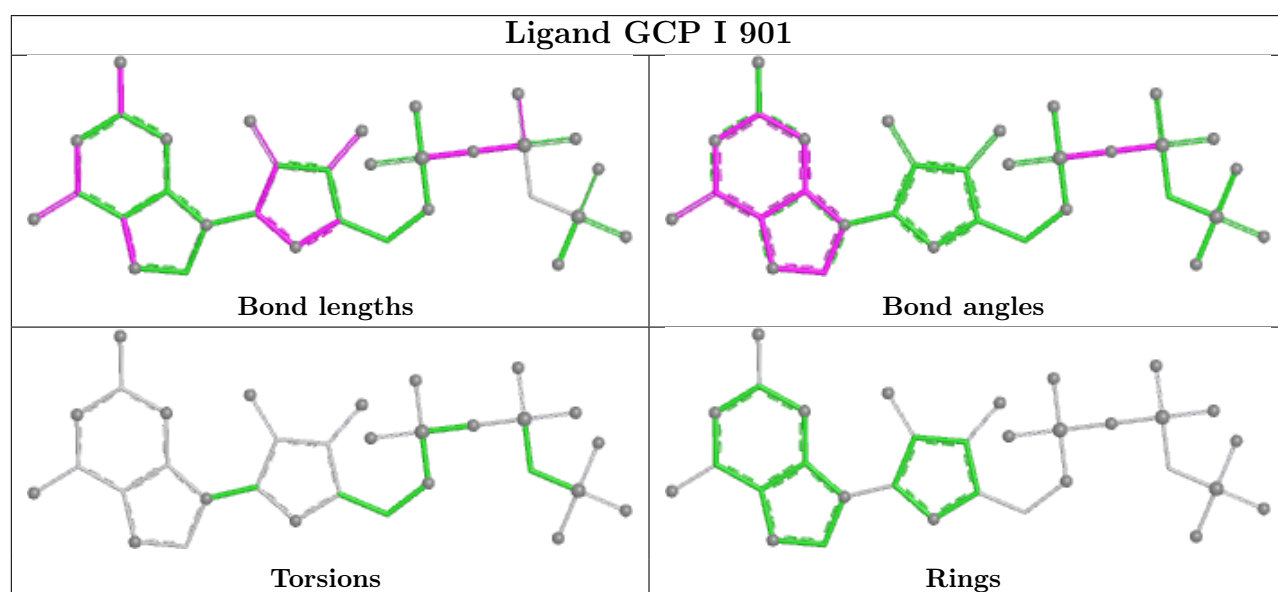
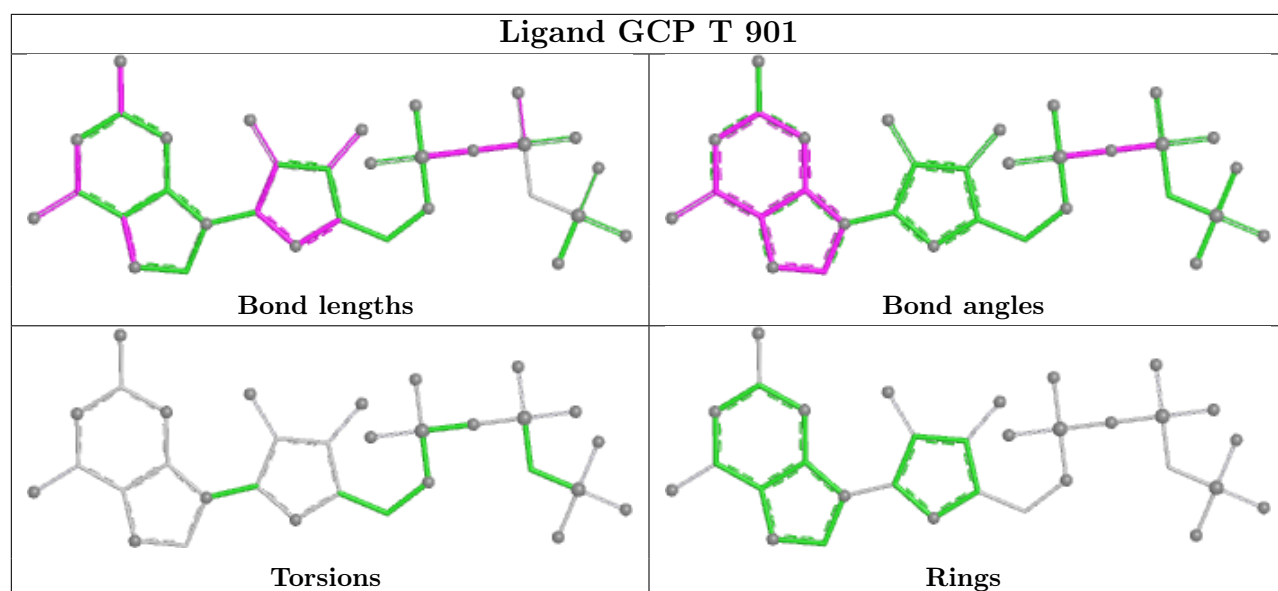


Ligand GCP C2 901

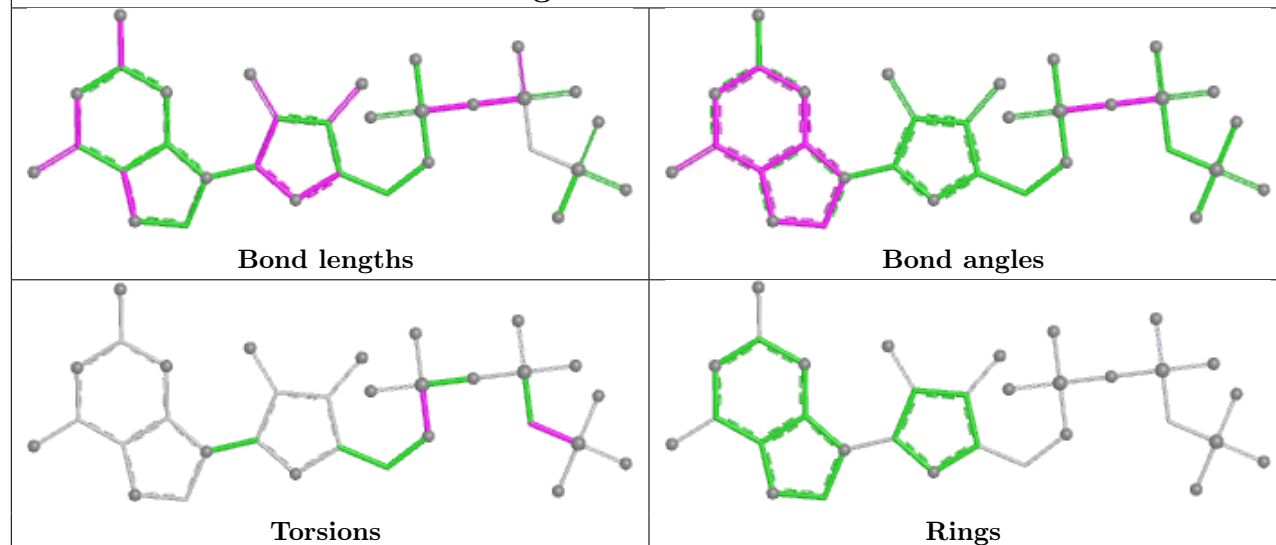


Ligand GCP J2 901

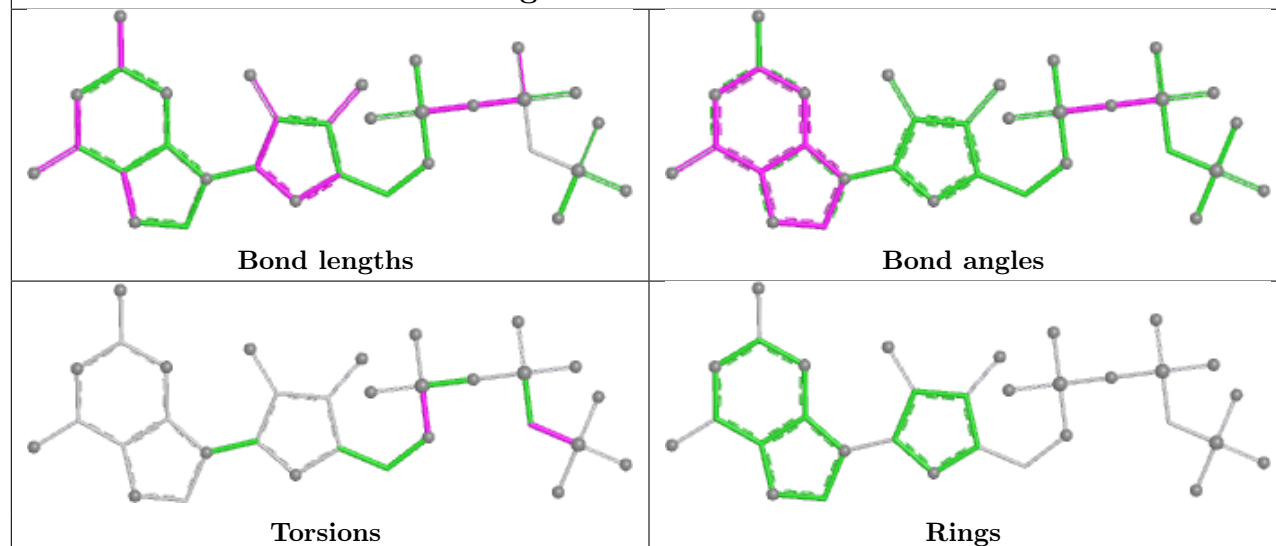




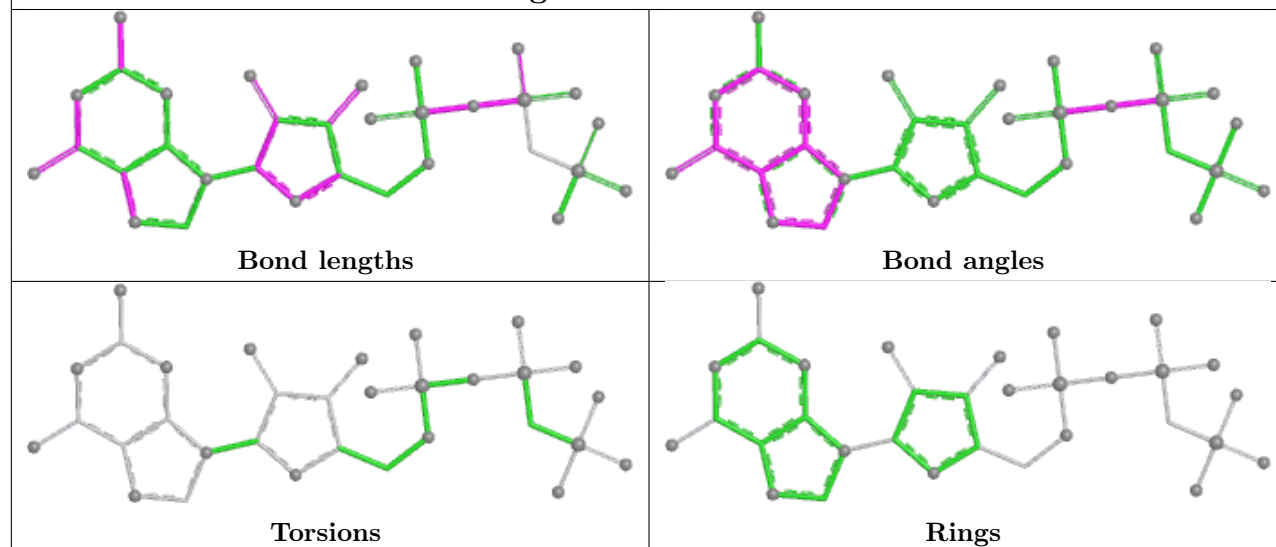
Ligand GCP S 901

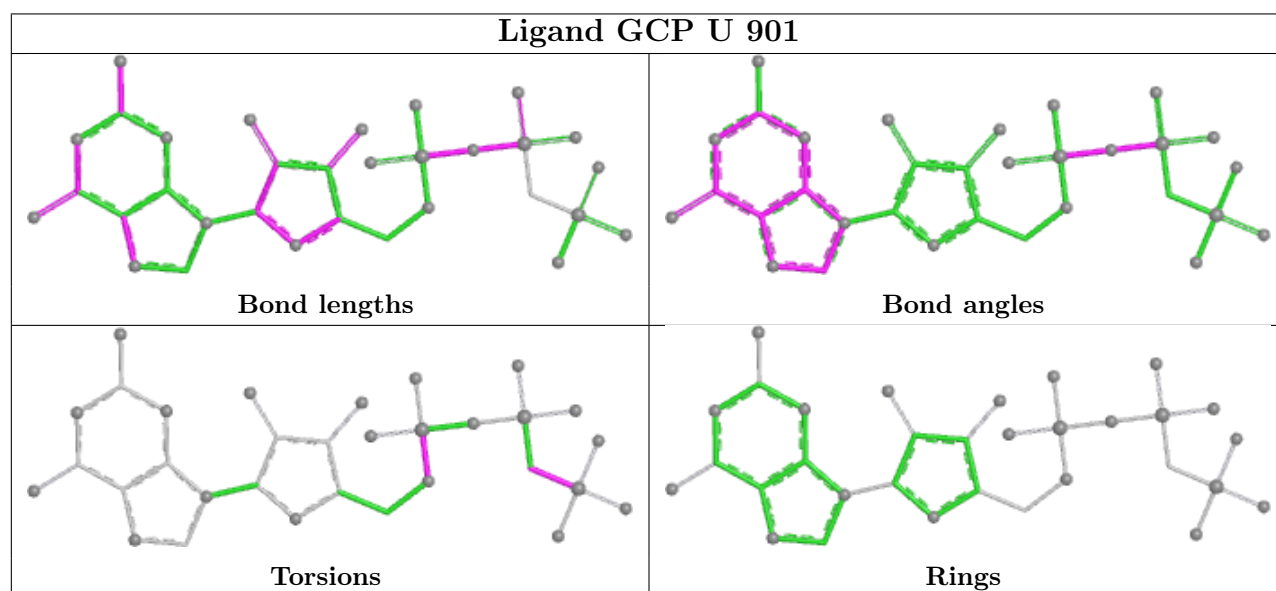
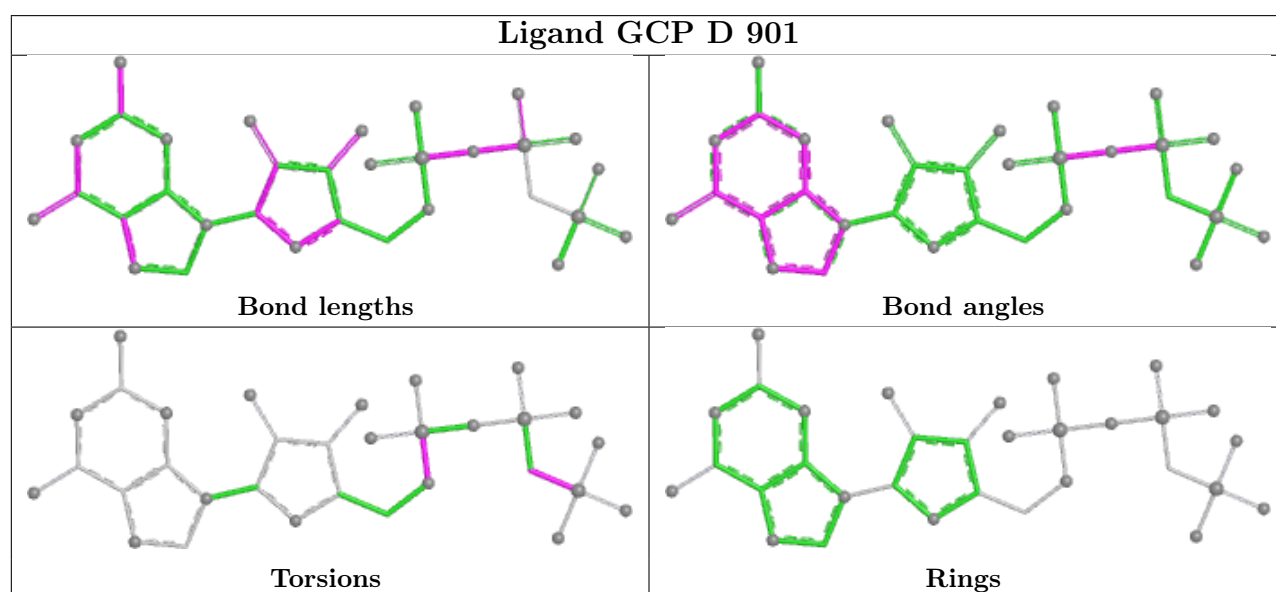
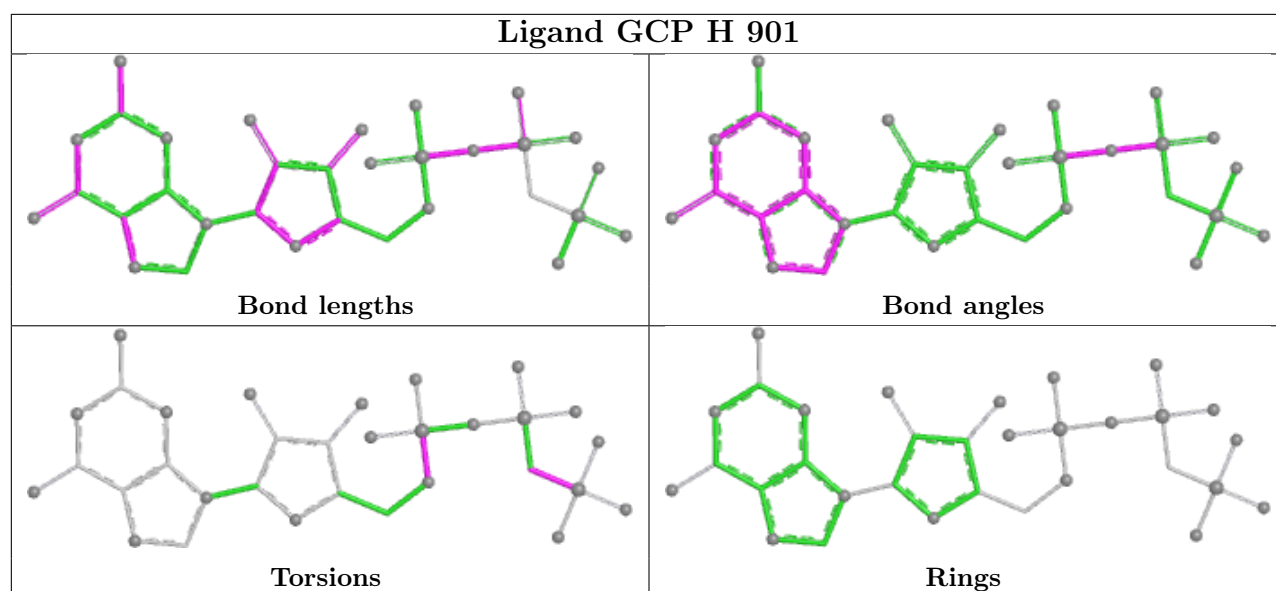


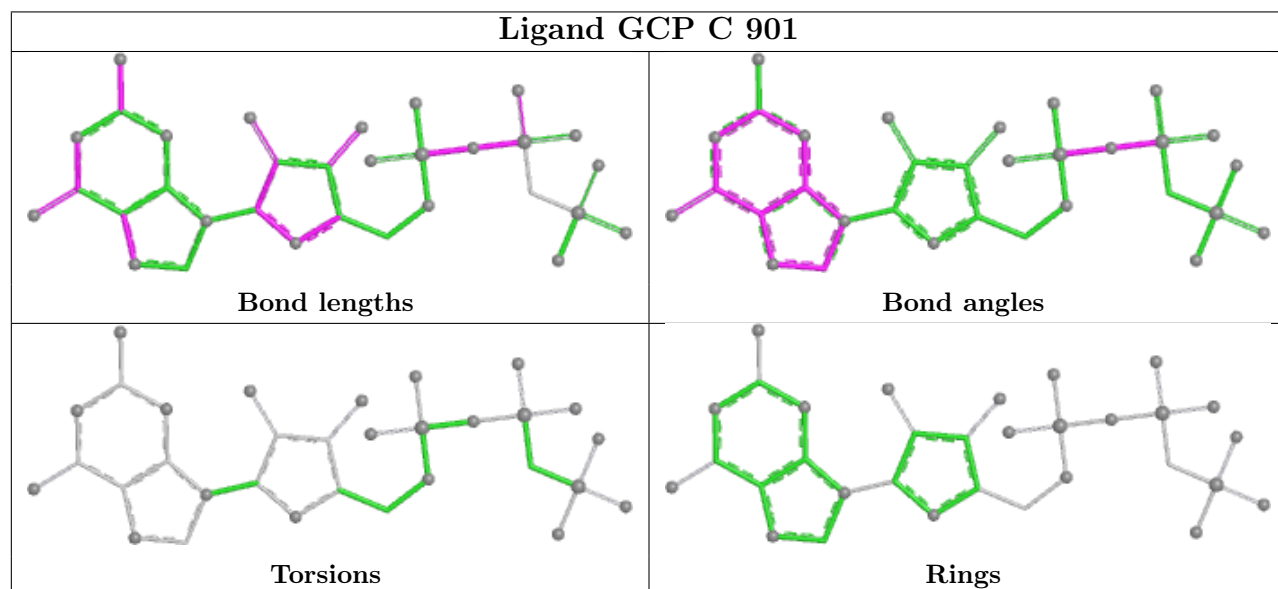
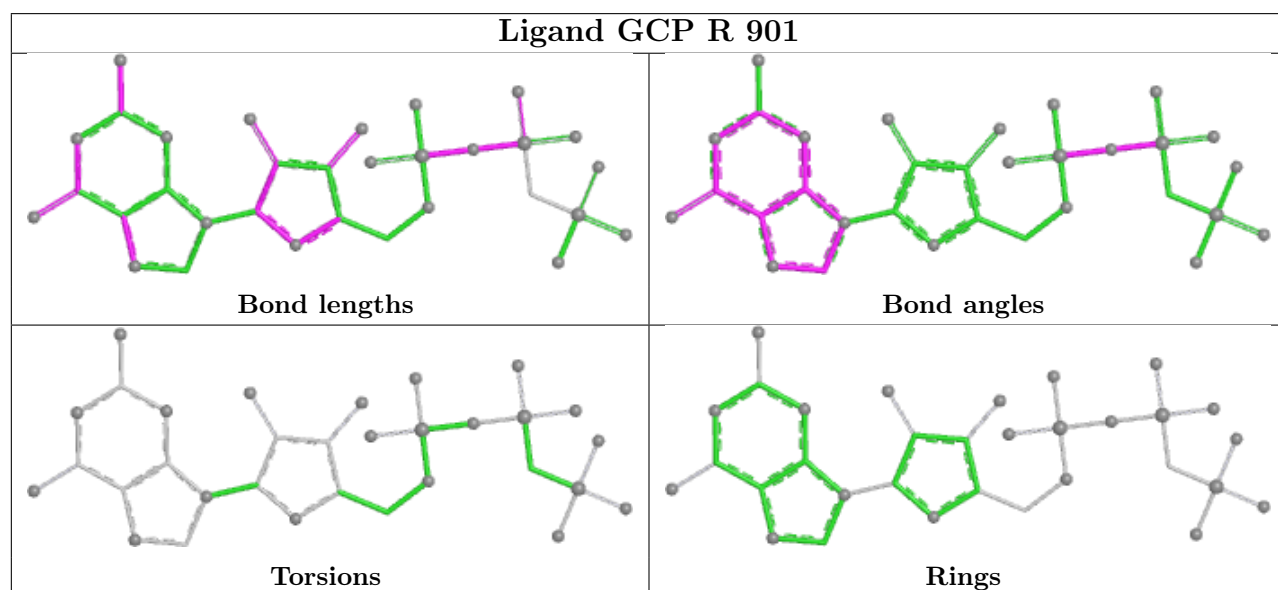
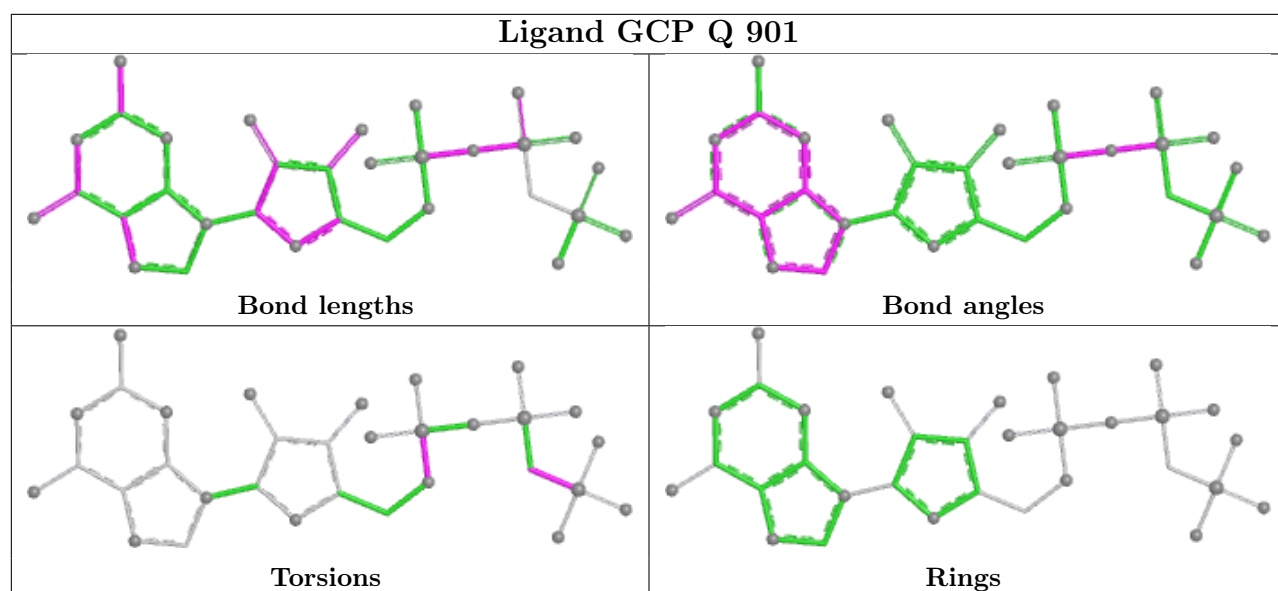
Ligand GCP G2 901

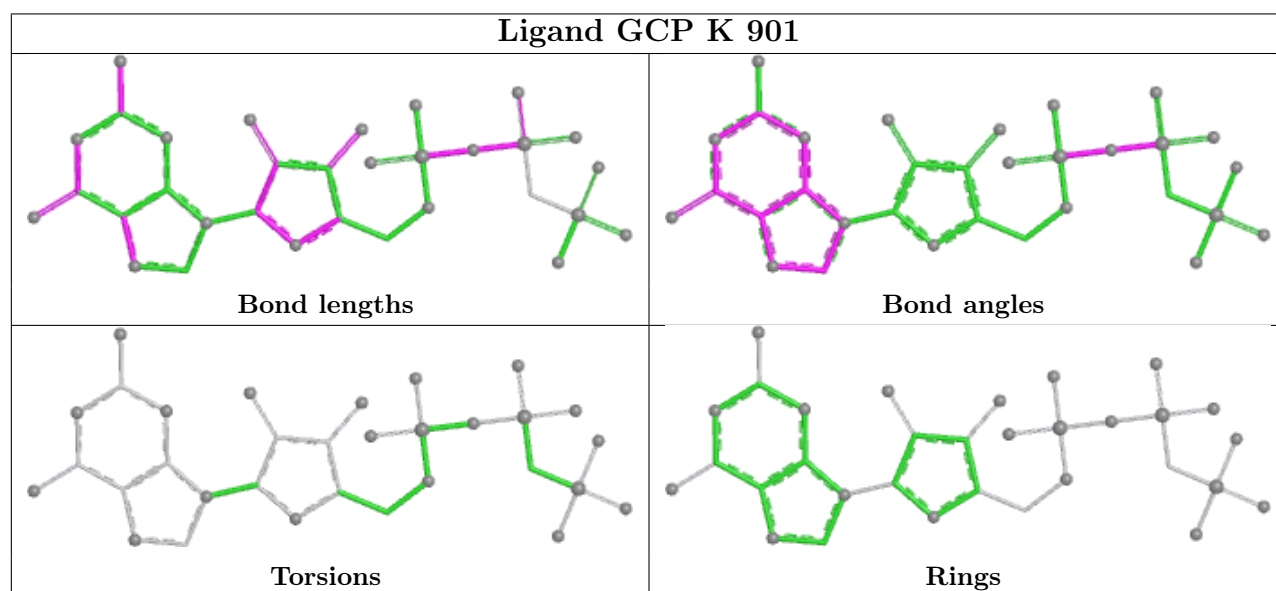
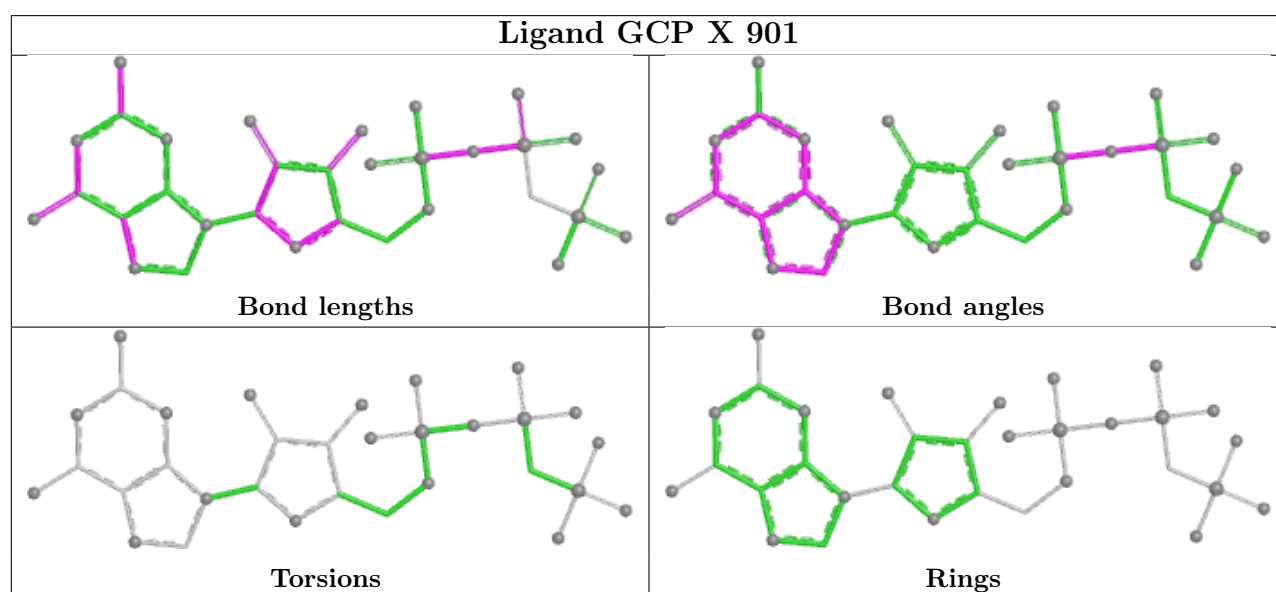
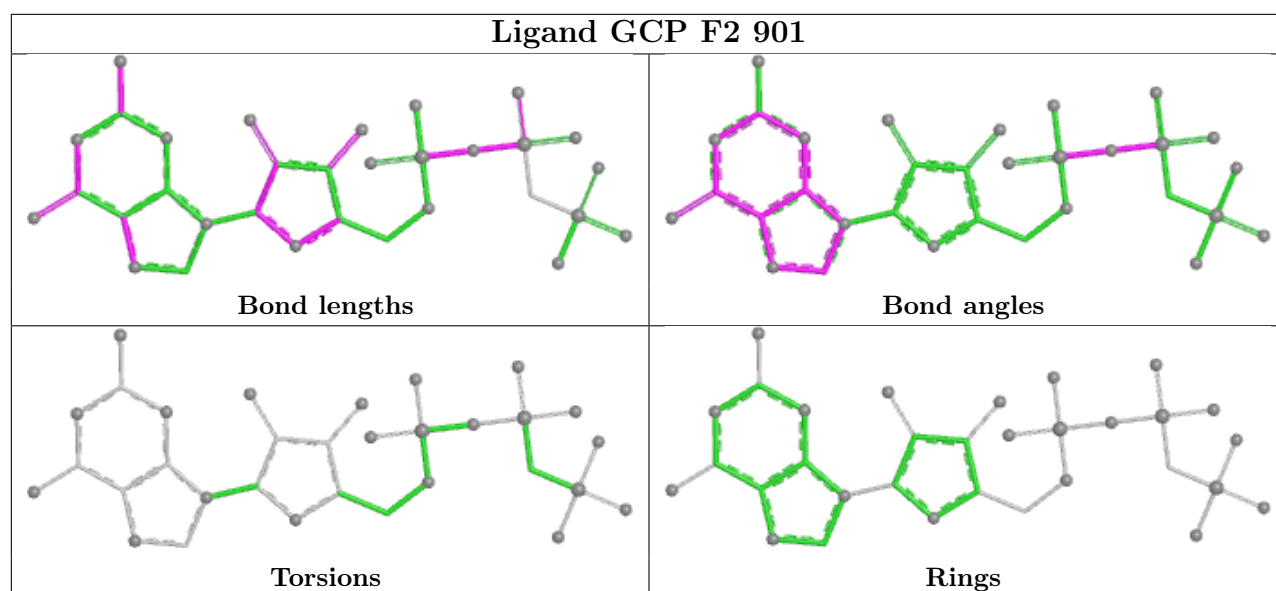


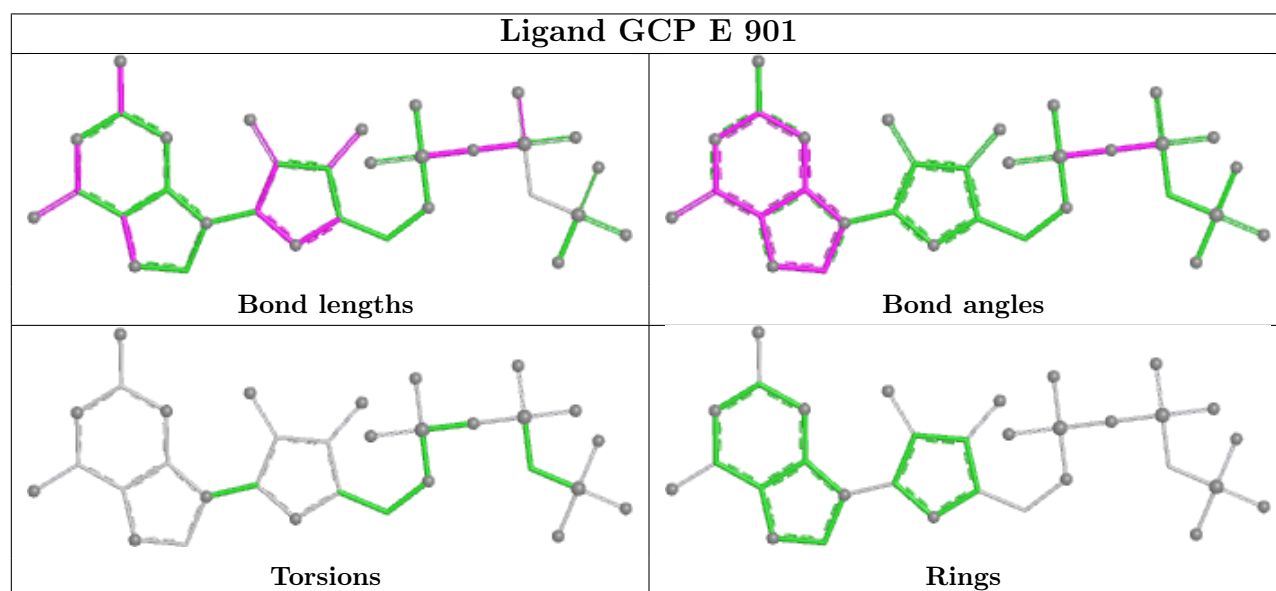
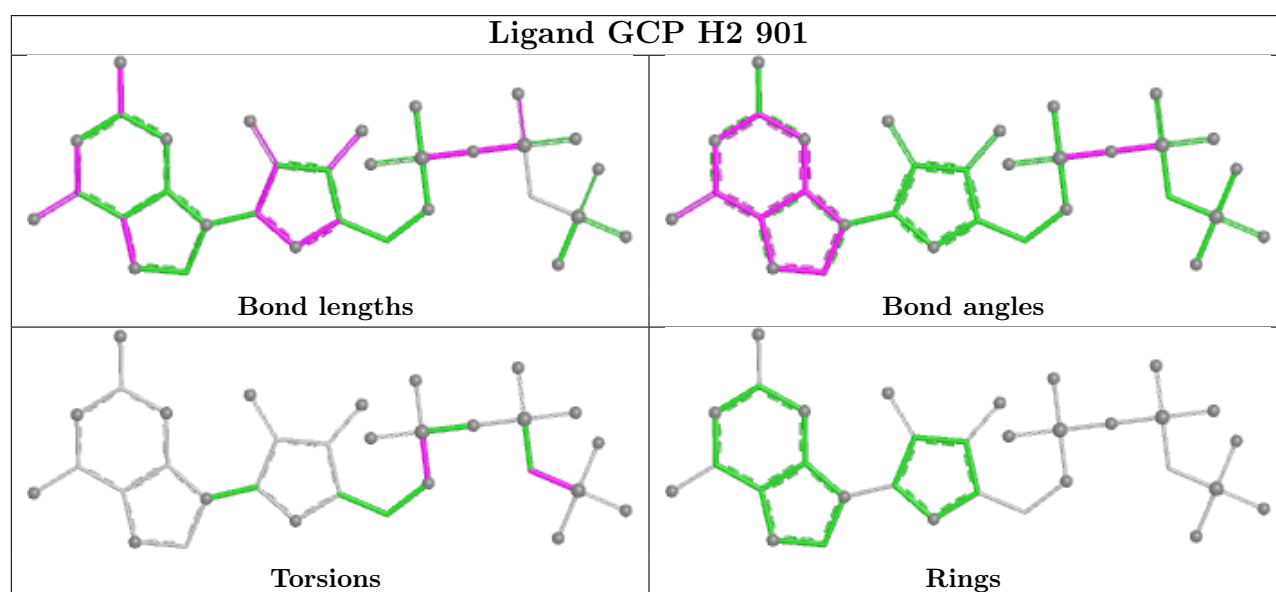
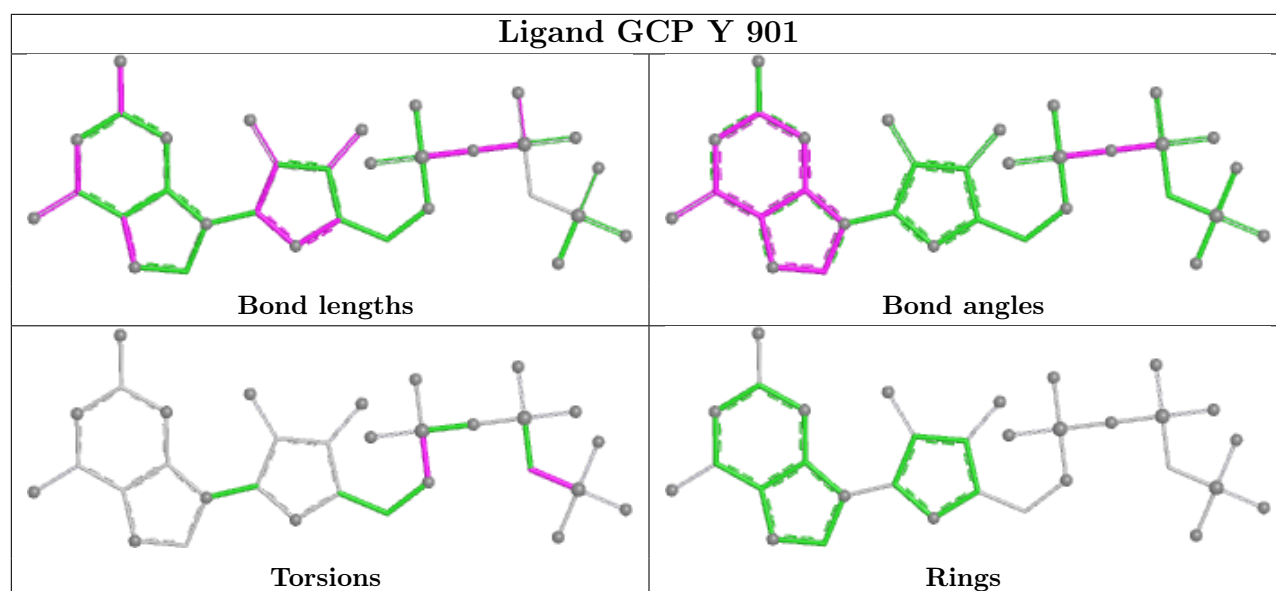
Ligand GCP V 901

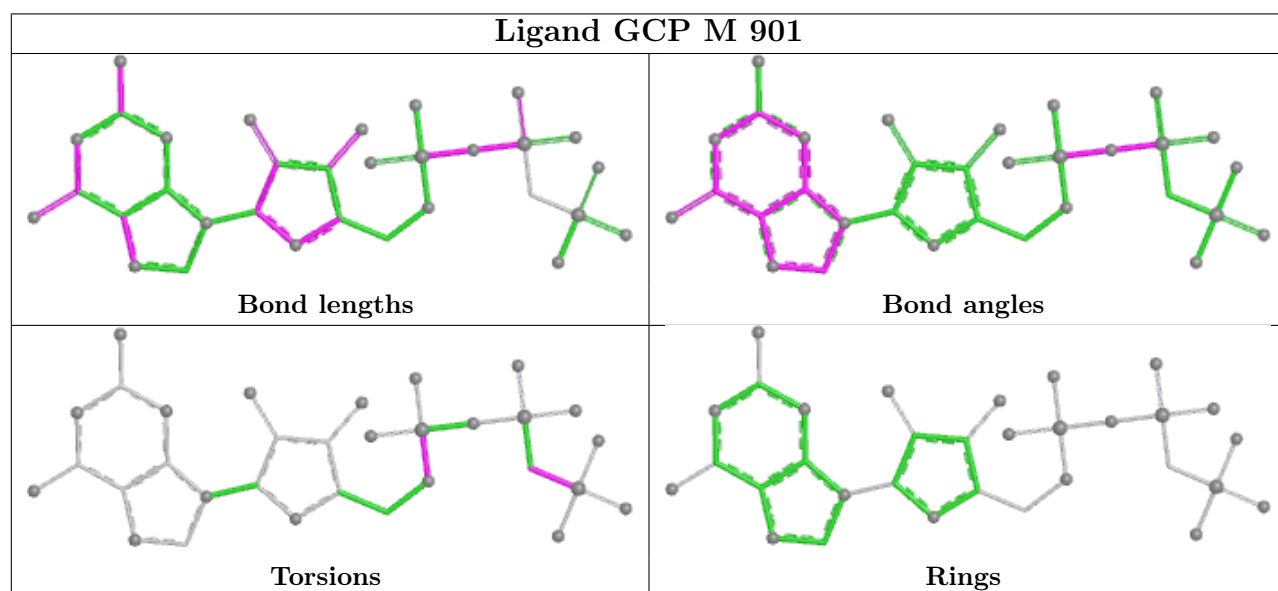
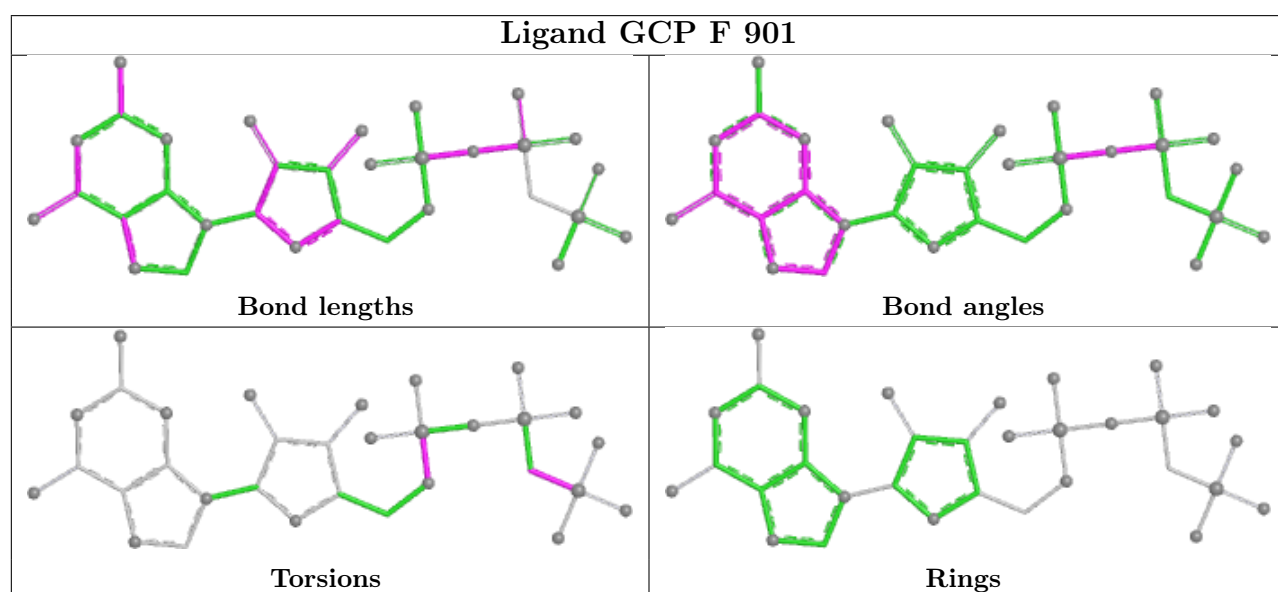
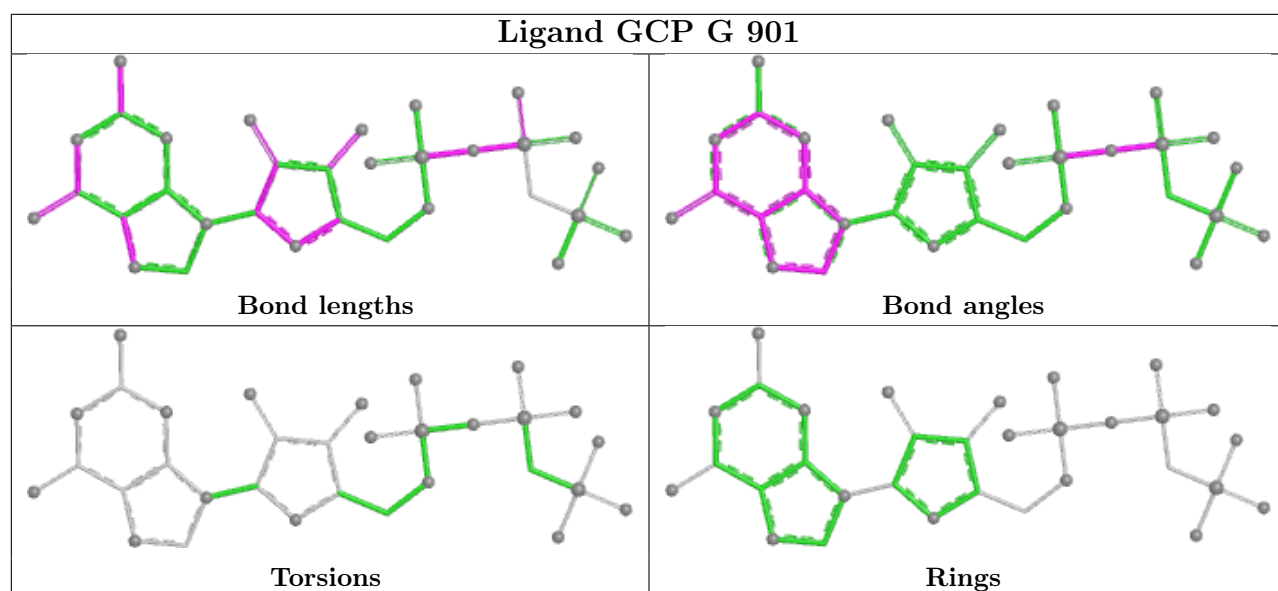




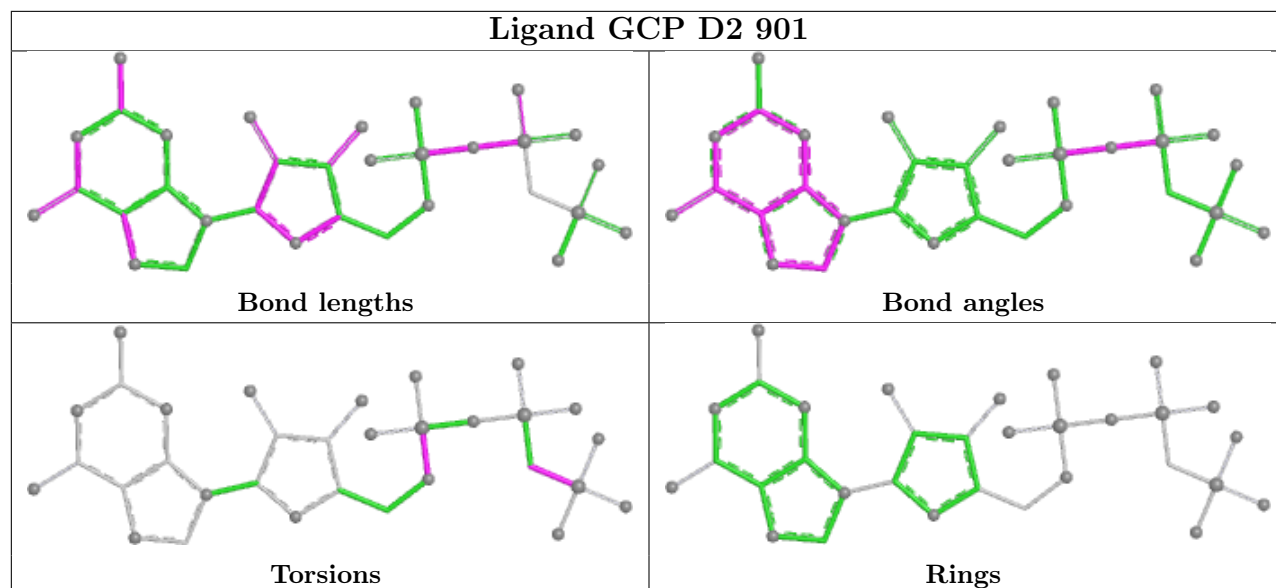




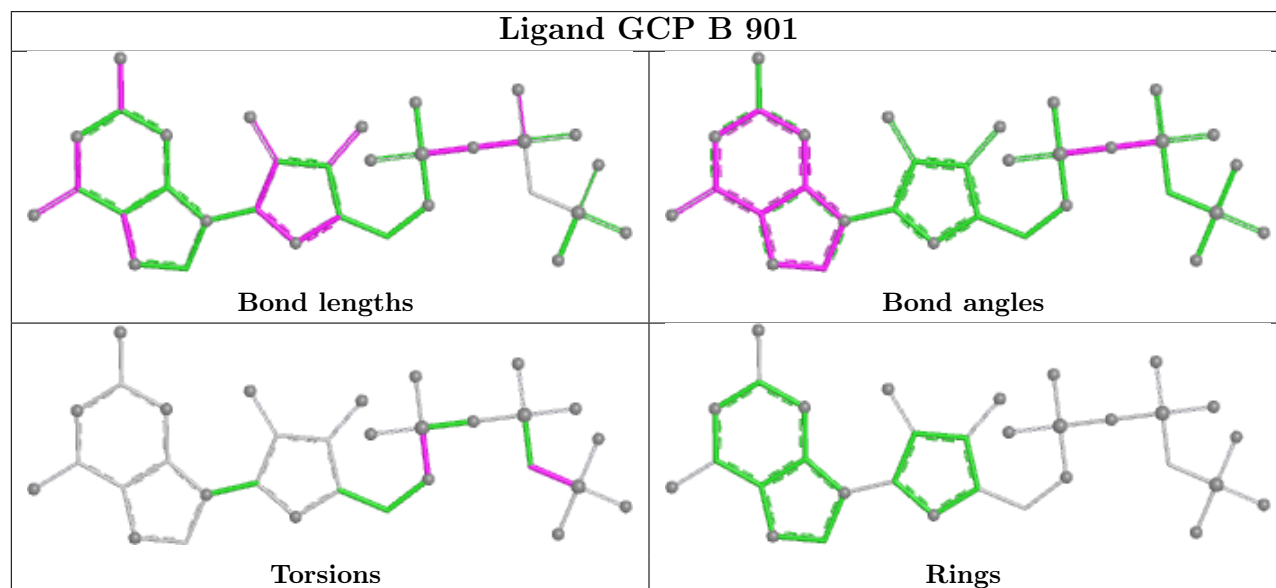




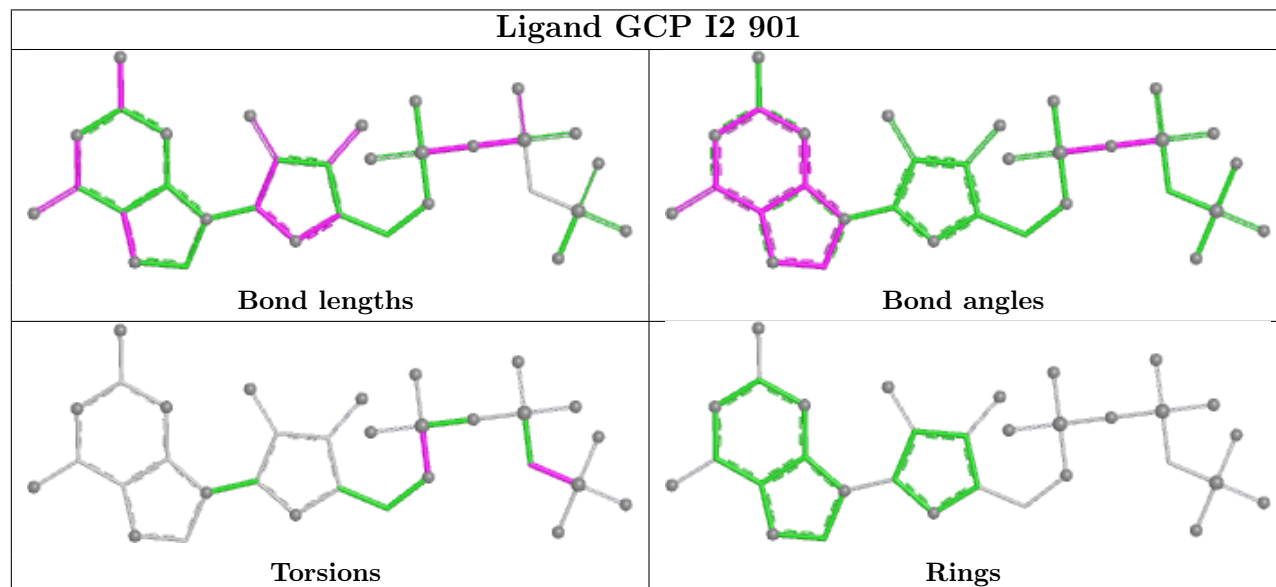
Ligand GCP D2 901



Ligand GCP B 901



Ligand GCP I2 901



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

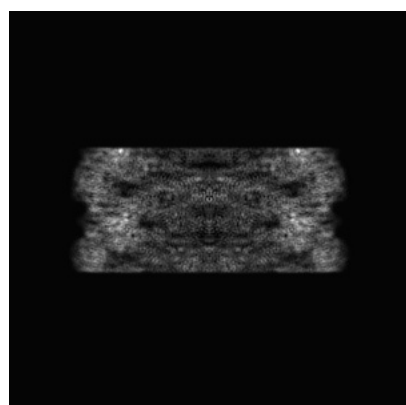
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-11932. These allow visual inspection of the internal detail of the map and identification of artifacts.

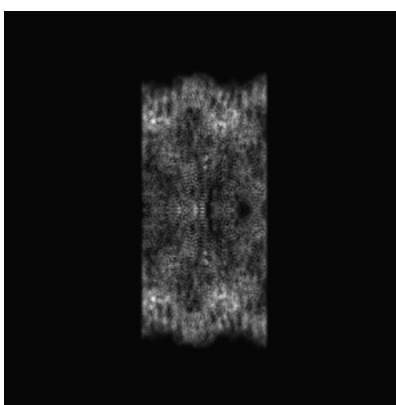
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

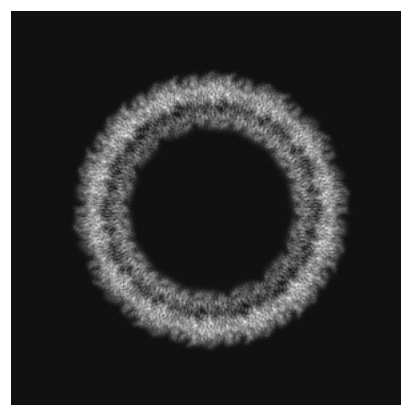
6.1.1 Primary map



X



Y

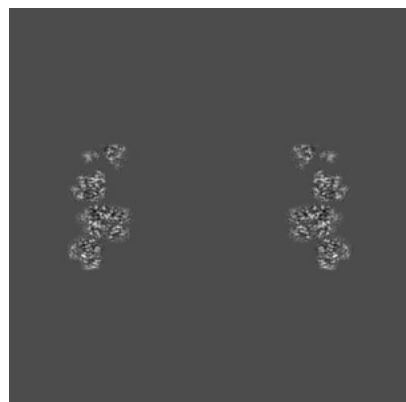


Z

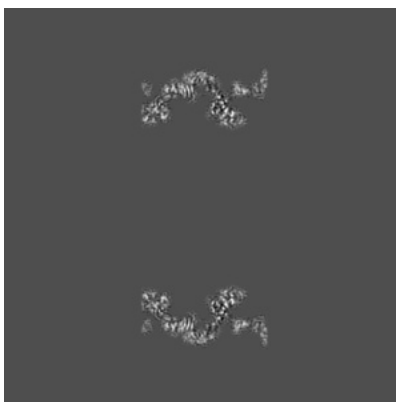
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

6.2.1 Primary map



X Index: 255



Y Index: 255



Z Index: 255

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

6.3 Largest variance slices [i](#)

6.3.1 Primary map



X Index: 141



Y Index: 142

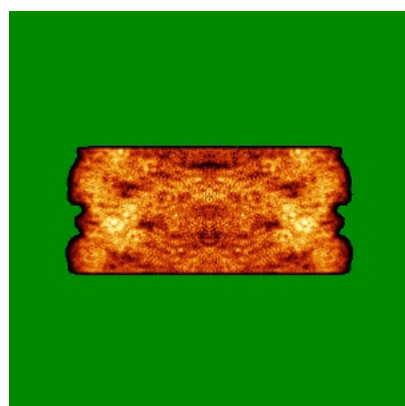


Z Index: 256

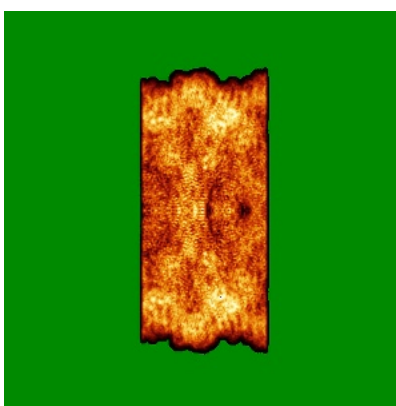
The images above show the largest variance slices of the map in three orthogonal directions.

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

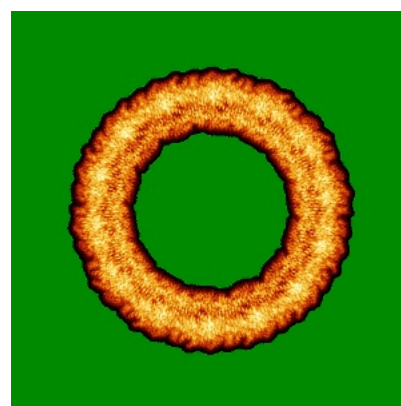
6.4.1 Primary map



X



Y

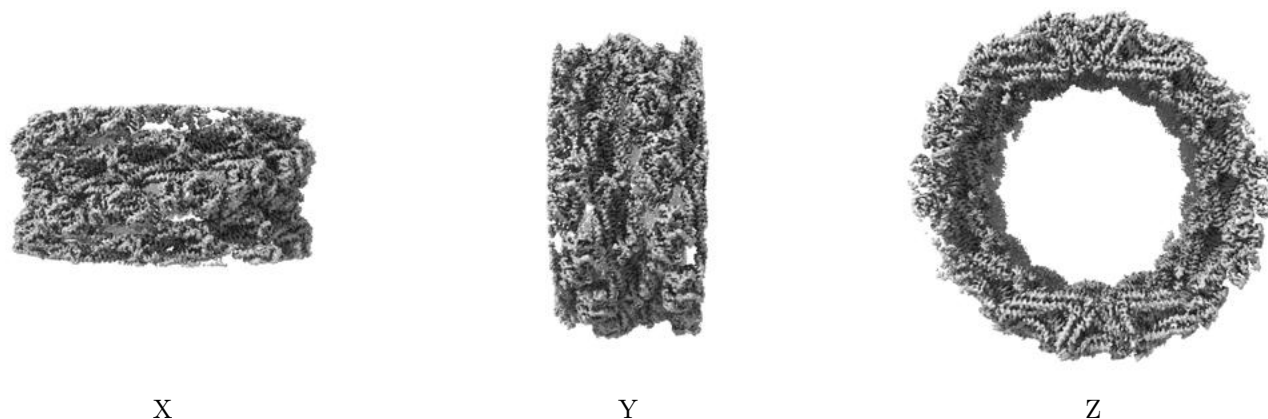


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.0115. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

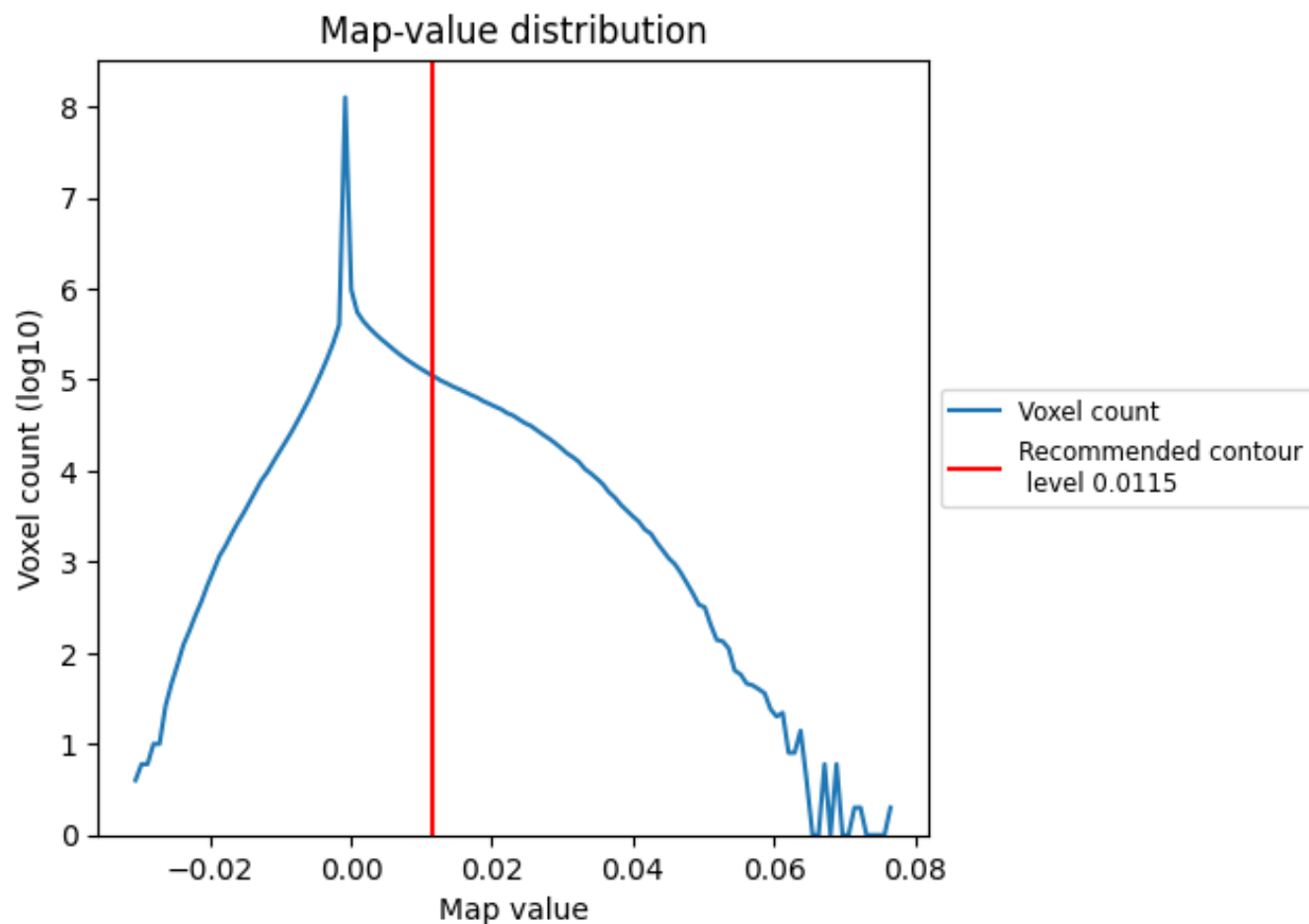
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

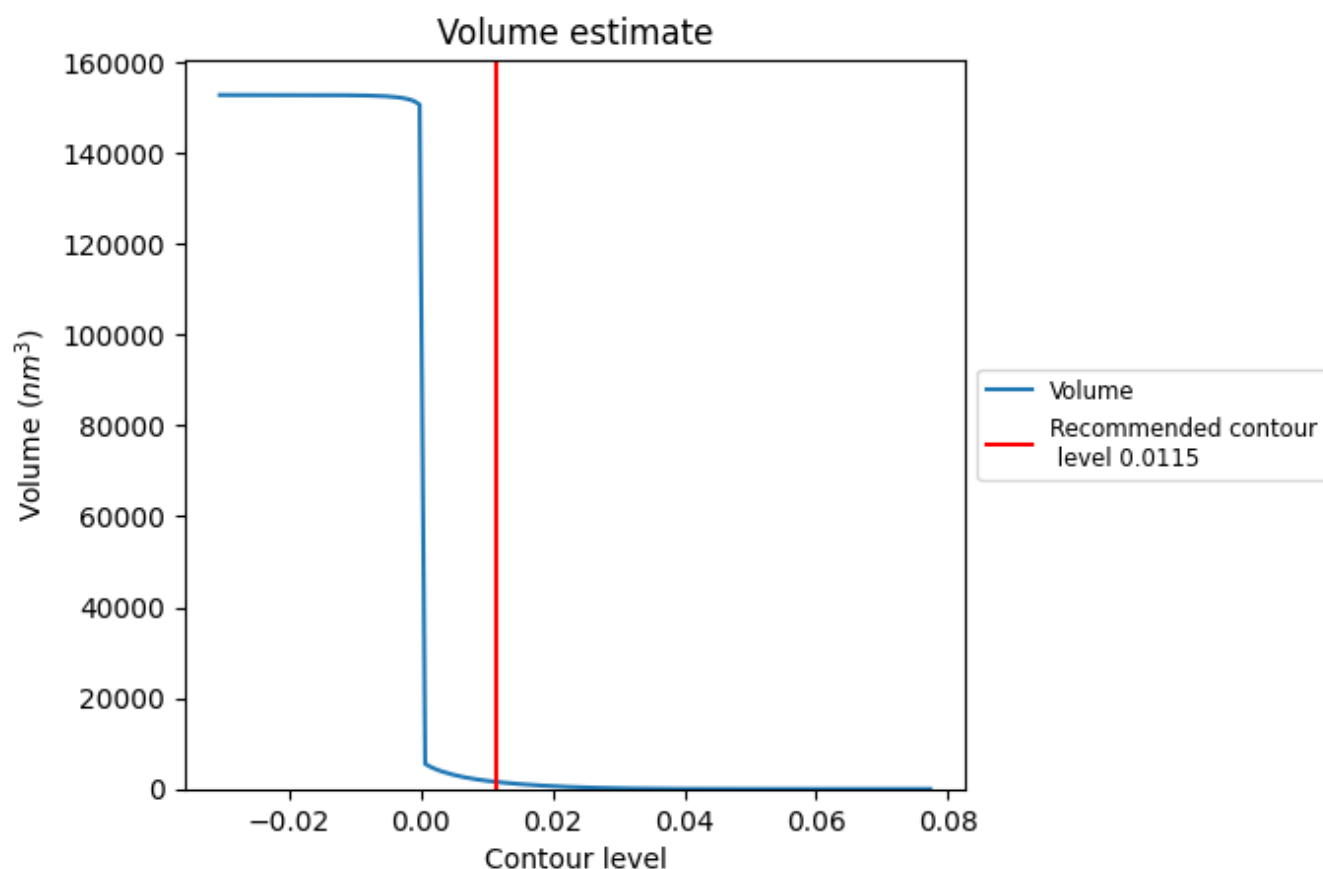
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

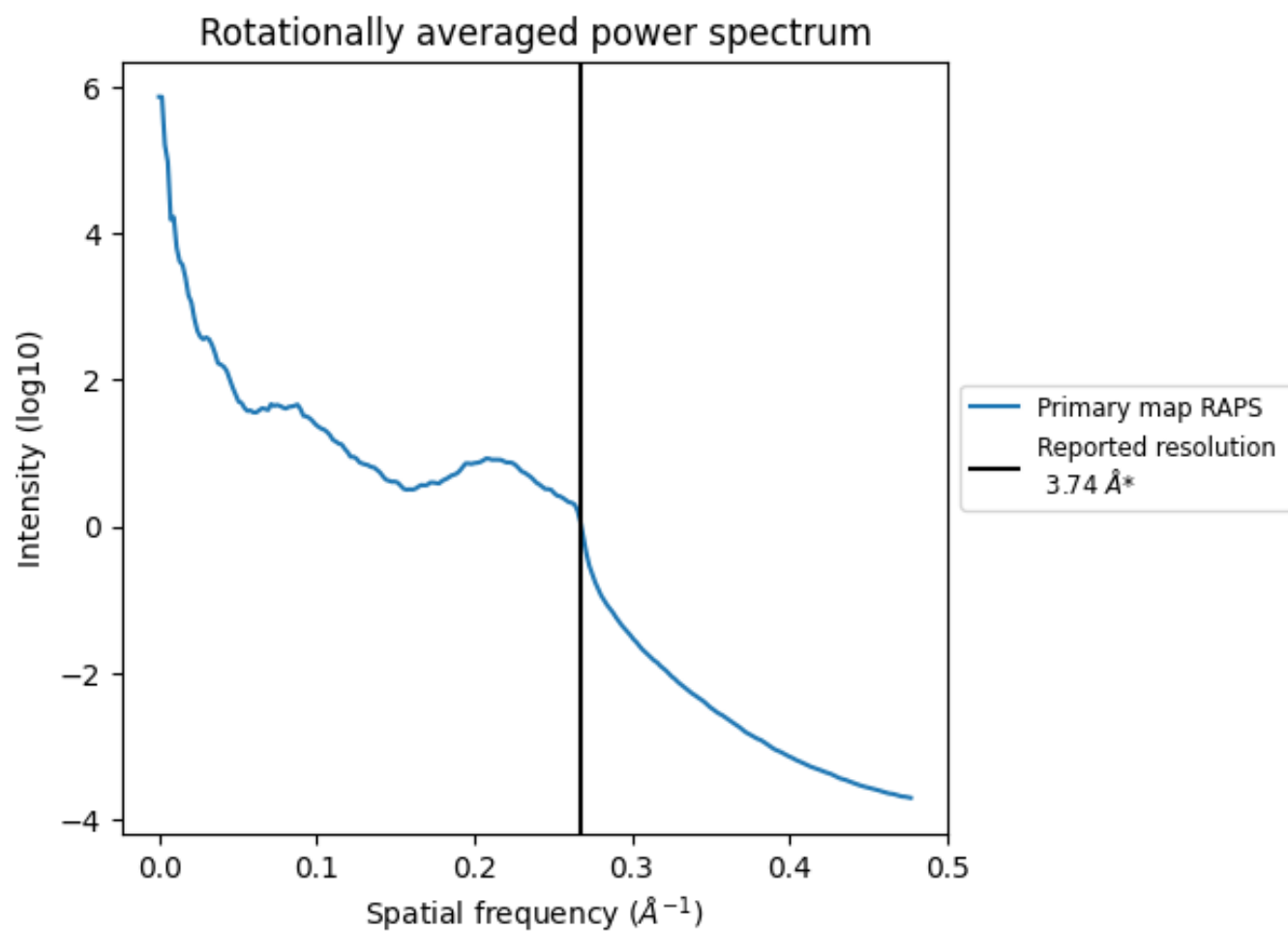
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1548 nm^3 ; this corresponds to an approximate mass of 1398 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.267 Å⁻¹

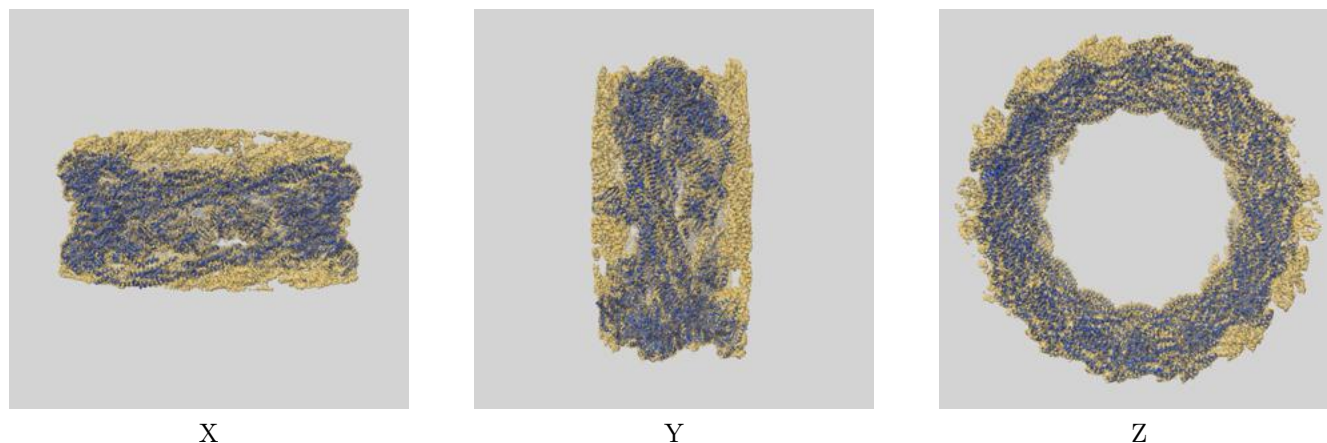
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

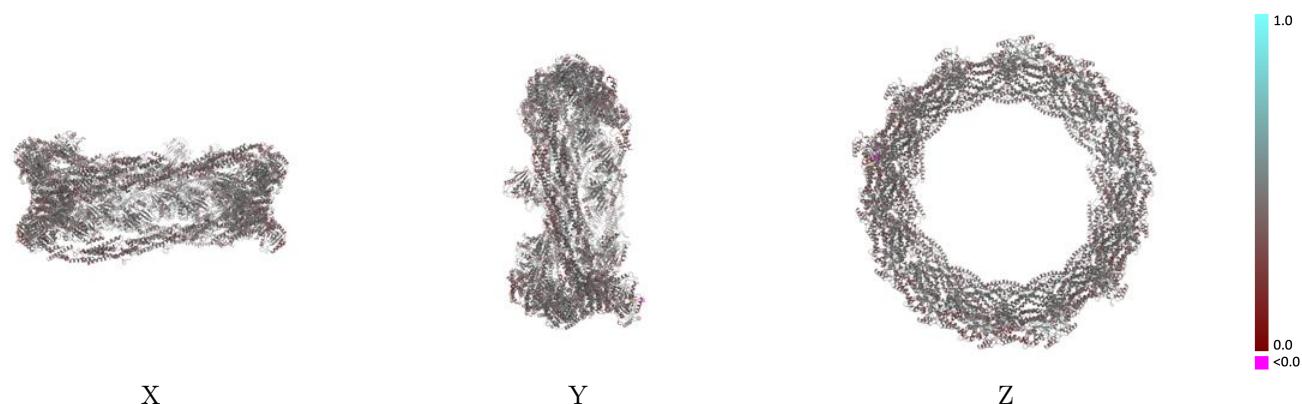
This section contains information regarding the fit between EMDB map EMD-11932 and PDB model 7AX3. Per-residue inclusion information can be found in section [3](#) on page [12](#).

9.1 Map-model overlay [i](#)



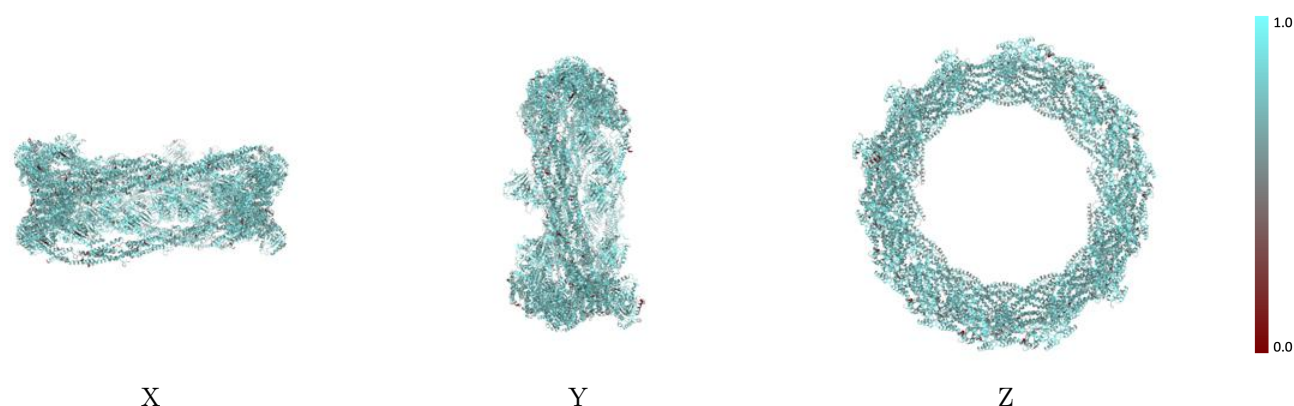
The images above show the 3D surface view of the map at the recommended contour level 0.0115 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



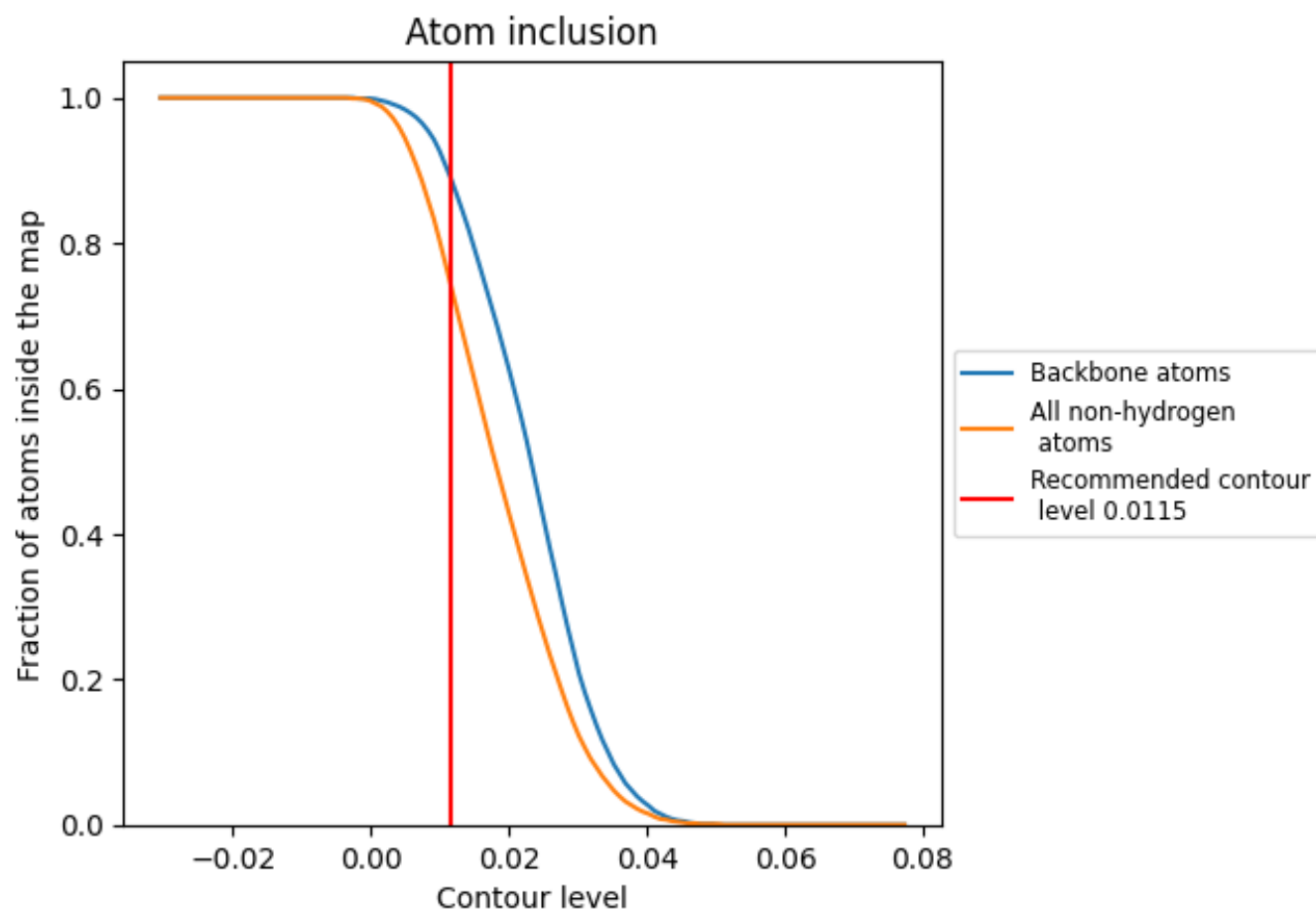
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0115).

9.4 Atom inclusion [i](#)



At the recommended contour level, 89% of all backbone atoms, 74% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.0115) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7450	 0.4300
A	 0.7470	 0.4320
A2	 0.7580	 0.4420
B	 0.7670	 0.4420
B2	 0.7740	 0.4470
C	 0.7300	 0.4210
C2	 0.7720	 0.4500
D	 0.7580	 0.4320
D2	 0.7730	 0.4530
E	 0.7590	 0.4400
E2	 0.6940	 0.4070
F	 0.7620	 0.4410
F2	 0.7140	 0.4050
G	 0.7460	 0.4310
G2	 0.7530	 0.4270
H	 0.7360	 0.4270
H2	 0.7330	 0.4150
I	 0.7350	 0.4190
I2	 0.6980	 0.3960
J	 0.6950	 0.4080
J2	 0.7350	 0.4140
K	 0.7140	 0.4070
L	 0.7080	 0.4080
M	 0.7520	 0.4280
N	 0.7290	 0.4210
O	 0.7600	 0.4350
P	 0.7460	 0.4310
Q	 0.7690	 0.4430
R	 0.7570	 0.4430
S	 0.7730	 0.4480
T	 0.7710	 0.4510
U	 0.7730	 0.4560
V	 0.7570	 0.4400
W	 0.7610	 0.4420
X	 0.7470	 0.4310



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Chain	Atom inclusion	Q-score
Y	 0.7360	 0.4280
Z	 0.7330	 0.4190