



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 02:47 PM UTC

PDB ID : 4V81 / pdb_00004v81
Title : The crystal structure of yeast CCT reveals intrinsic asymmetry of eukaryotic cytosolic chaperonins
Authors : Dekker, C.; Roe, S.M.; McCormack, E.A.; Beuron, F.; Pearl, L.H.; Willison, K.R.
Deposited on : 2010-10-17
Resolution : 3.80 Å(reported)

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

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

A user guide is available at

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

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:

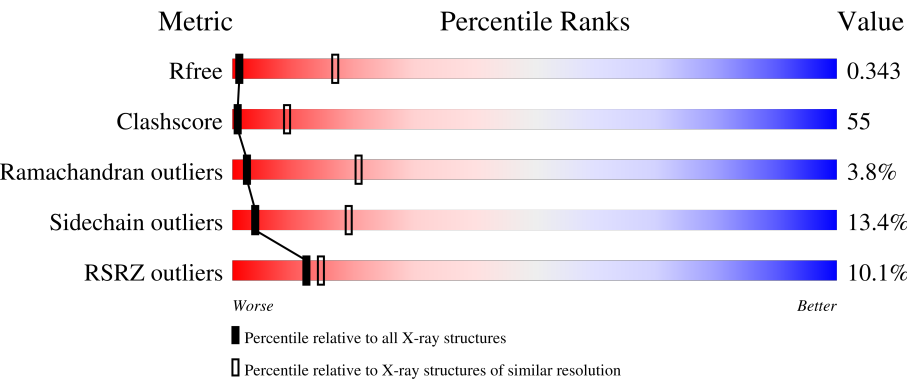
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal 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 i

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.80 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1065 (3.96-3.64)
Clashscore	190562	1012 (3.94-3.66)
Ramachandran outliers	187476	1048 (3.96-3.64)
Sidechain outliers	187428	1043 (3.96-3.64)
RSRZ outliers	180081	1064 (3.96-3.64)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	559	8% 51% 39% 6%
1	I	559	10% 52% 38% 6%
1	a	559	4% 52% 38% 6%
1	i	559	7% 52% 39% 6%

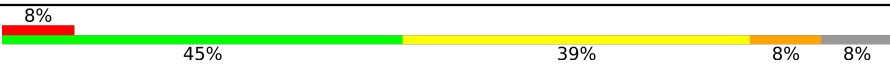
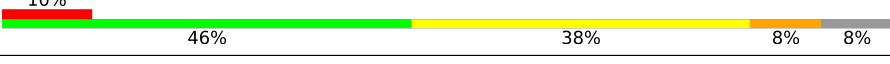
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Mol	Chain	Length	Quality of chain
2	B	527	
2	J	527	
2	b	527	
2	j	527	
3	C	590	
3	K	590	
3	c	590	
3	k	590	
4	D	528	
4	L	528	
4	d	528	
4	l	528	
5	E	562	
5	M	562	
5	e	562	
5	m	562	
6	F	546	
6	N	546	
6	f	546	
6	n	546	
7	G	550	
7	O	550	
7	g	550	
7	o	550	
8	H	568	

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Mol	Chain	Length	Quality of chain
8	P	568	
8	h	568	
8	p	568	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
10	BEF	C	1102	-	-	X	-
10	BEF	F	602	-	-	X	-
10	BEF	N	602	-	-	X	-
10	BEF	n	1602	-	-	-	X
9	ADP	A	601	X	-	-	-
9	ADP	B	601	X	-	-	-
9	ADP	C	1101	X	-	-	-
9	ADP	D	601	X	-	-	-
9	ADP	E	601	X	-	-	-
9	ADP	G	601	X	-	-	-
9	ADP	H	601	X	-	-	-
9	ADP	J	601	X	-	-	-
9	ADP	M	601	X	-	-	-
9	ADP	N	601	X	-	-	-
9	ADP	P	601	X	-	-	-
9	ADP	a	1601	X	-	-	-
9	ADP	b	1601	X	-	-	-
9	ADP	e	1601	X	-	-	-
9	ADP	f	1601	X	-	-	-
9	ADP	g	1601	X	-	-	-
9	ADP	h	1601	X	-	-	-
9	ADP	k	2101	X	-	X	-
9	ADP	m	1601	X	-	-	-
9	ADP	n	1601	X	-	-	-
9	ADP	p	1601	X	-	-	-

2 Entry composition [i](#)

There are 12 unique types of molecules in this entry. The entry contains 111235 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called T-complex protein 1 subunit alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	544	Total	C	N	O	S	0	0	0
			3492	2146	600	732	14			
1	I	544	Total	C	N	O	S	0	0	0
			3492	2146	600	732	14			
1	a	544	Total	C	N	O	S	0	0	0
			3492	2146	600	732	14			
1	i	544	Total	C	N	O	S	0	0	0
			3492	2146	600	732	14			

- Molecule 2 is a protein called T-complex protein 1 subunit beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	513	Total	C	N	O	S	0	0	0
			3459	2125	597	728	9			
2	J	513	Total	C	N	O	S	0	0	0
			3459	2125	597	728	9			
2	b	513	Total	C	N	O	S	0	0	0
			3460	2126	597	728	9			
2	j	513	Total	C	N	O	S	0	0	0
			3457	2123	597	728	9			

- Molecule 3 is a protein called T-complex protein 1 subunit gamma.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	514	Total	C	N	O	S	0	0	0
			3392	2104	590	685	13			
3	K	514	Total	C	N	O	S	0	0	0
			3393	2104	590	685	14			
3	c	514	Total	C	N	O	S	0	0	0
			3395	2106	590	685	14			
3	k	514	Total	C	N	O	S	0	0	0
			3395	2106	590	685	14			

There are 224 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	1001	GLY	-	SEE REMARK 999	UNP P39077
C	1002	SER	-	SEE REMARK 999	UNP P39077
C	1003	GLY	-	SEE REMARK 999	UNP P39077
C	1004	SER	-	SEE REMARK 999	UNP P39077
C	1005	GLY	-	SEE REMARK 999	UNP P39077
C	1006	TRP	-	SEE REMARK 999	UNP P39077
C	1007	SER	-	SEE REMARK 999	UNP P39077
C	1008	HIS	-	SEE REMARK 999	UNP P39077
C	1009	PRO	-	SEE REMARK 999	UNP P39077
C	1010	GLN	-	SEE REMARK 999	UNP P39077
C	1011	PHE	-	SEE REMARK 999	UNP P39077
C	1012	GLU	-	SEE REMARK 999	UNP P39077
C	1013	LYS	-	SEE REMARK 999	UNP P39077
C	1014	GLY	-	SEE REMARK 999	UNP P39077
C	1015	SER	-	SEE REMARK 999	UNP P39077
C	1016	GLY	-	SEE REMARK 999	UNP P39077
C	1017	LYS	-	SEE REMARK 999	UNP P39077
C	1018	ARG	-	SEE REMARK 999	UNP P39077
C	1019	ARG	-	SEE REMARK 999	UNP P39077
C	1020	TRP	-	SEE REMARK 999	UNP P39077
C	1021	LYS	-	SEE REMARK 999	UNP P39077
C	1022	LYS	-	SEE REMARK 999	UNP P39077
C	1023	ASN	-	SEE REMARK 999	UNP P39077
C	1024	PHE	-	SEE REMARK 999	UNP P39077
C	1025	ILE	-	SEE REMARK 999	UNP P39077
C	1026	ALA	-	SEE REMARK 999	UNP P39077
C	1027	VAL	-	SEE REMARK 999	UNP P39077
C	1028	SER	-	SEE REMARK 999	UNP P39077
C	1029	ALA	-	SEE REMARK 999	UNP P39077
C	1030	ALA	-	SEE REMARK 999	UNP P39077
C	1031	ASN	-	SEE REMARK 999	UNP P39077
C	1032	ARG	-	SEE REMARK 999	UNP P39077
C	1033	PHE	-	SEE REMARK 999	UNP P39077
C	1034	LYS	-	SEE REMARK 999	UNP P39077
C	1035	LYS	-	SEE REMARK 999	UNP P39077
C	1036	ILE	-	SEE REMARK 999	UNP P39077
C	1037	SER	-	SEE REMARK 999	UNP P39077
C	1038	SER	-	SEE REMARK 999	UNP P39077
C	1039	SER	-	SEE REMARK 999	UNP P39077
C	1040	GLY	-	SEE REMARK 999	UNP P39077
C	1041	ALA	-	SEE REMARK 999	UNP P39077
C	1042	LEU	-	SEE REMARK 999	UNP P39077

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Chain	Residue	Modelled	Actual	Comment	Reference
C	1043	GLY	-	SEE REMARK 999	UNP P39077
C	1044	SER	-	SEE REMARK 999	UNP P39077
C	1045	GLY	-	SEE REMARK 999	UNP P39077
C	1046	HIS	-	SEE REMARK 999	UNP P39077
C	1047	HIS	-	SEE REMARK 999	UNP P39077
C	1048	HIS	-	SEE REMARK 999	UNP P39077
C	1049	HIS	-	SEE REMARK 999	UNP P39077
C	1050	HIS	-	SEE REMARK 999	UNP P39077
C	1051	HIS	-	SEE REMARK 999	UNP P39077
C	1052	HIS	-	SEE REMARK 999	UNP P39077
C	1053	HIS	-	SEE REMARK 999	UNP P39077
C	1054	GLY	-	SEE REMARK 999	UNP P39077
C	1055	SER	-	SEE REMARK 999	UNP P39077
C	1056	GLY	-	SEE REMARK 999	UNP P39077
K	1001	GLY	-	SEE REMARK 999	UNP P39077
K	1002	SER	-	SEE REMARK 999	UNP P39077
K	1003	GLY	-	SEE REMARK 999	UNP P39077
K	1004	SER	-	SEE REMARK 999	UNP P39077
K	1005	GLY	-	SEE REMARK 999	UNP P39077
K	1006	TRP	-	SEE REMARK 999	UNP P39077
K	1007	SER	-	SEE REMARK 999	UNP P39077
K	1008	HIS	-	SEE REMARK 999	UNP P39077
K	1009	PRO	-	SEE REMARK 999	UNP P39077
K	1010	GLN	-	SEE REMARK 999	UNP P39077
K	1011	PHE	-	SEE REMARK 999	UNP P39077
K	1012	GLU	-	SEE REMARK 999	UNP P39077
K	1013	LYS	-	SEE REMARK 999	UNP P39077
K	1014	GLY	-	SEE REMARK 999	UNP P39077
K	1015	SER	-	SEE REMARK 999	UNP P39077
K	1016	GLY	-	SEE REMARK 999	UNP P39077
K	1017	LYS	-	SEE REMARK 999	UNP P39077
K	1018	ARG	-	SEE REMARK 999	UNP P39077
K	1019	ARG	-	SEE REMARK 999	UNP P39077
K	1020	TRP	-	SEE REMARK 999	UNP P39077
K	1021	LYS	-	SEE REMARK 999	UNP P39077
K	1022	LYS	-	SEE REMARK 999	UNP P39077
K	1023	ASN	-	SEE REMARK 999	UNP P39077
K	1024	PHE	-	SEE REMARK 999	UNP P39077
K	1025	ILE	-	SEE REMARK 999	UNP P39077
K	1026	ALA	-	SEE REMARK 999	UNP P39077
K	1027	VAL	-	SEE REMARK 999	UNP P39077
K	1028	SER	-	SEE REMARK 999	UNP P39077

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Chain	Residue	Modelled	Actual	Comment	Reference
K	1029	ALA	-	SEE REMARK 999	UNP P39077
K	1030	ALA	-	SEE REMARK 999	UNP P39077
K	1031	ASN	-	SEE REMARK 999	UNP P39077
K	1032	ARG	-	SEE REMARK 999	UNP P39077
K	1033	PHE	-	SEE REMARK 999	UNP P39077
K	1034	LYS	-	SEE REMARK 999	UNP P39077
K	1035	LYS	-	SEE REMARK 999	UNP P39077
K	1036	ILE	-	SEE REMARK 999	UNP P39077
K	1037	SER	-	SEE REMARK 999	UNP P39077
K	1038	SER	-	SEE REMARK 999	UNP P39077
K	1039	SER	-	SEE REMARK 999	UNP P39077
K	1040	GLY	-	SEE REMARK 999	UNP P39077
K	1041	ALA	-	SEE REMARK 999	UNP P39077
K	1042	LEU	-	SEE REMARK 999	UNP P39077
K	1043	GLY	-	SEE REMARK 999	UNP P39077
K	1044	SER	-	SEE REMARK 999	UNP P39077
K	1045	GLY	-	SEE REMARK 999	UNP P39077
K	1046	HIS	-	SEE REMARK 999	UNP P39077
K	1047	HIS	-	SEE REMARK 999	UNP P39077
K	1048	HIS	-	SEE REMARK 999	UNP P39077
K	1049	HIS	-	SEE REMARK 999	UNP P39077
K	1050	HIS	-	SEE REMARK 999	UNP P39077
K	1051	HIS	-	SEE REMARK 999	UNP P39077
K	1052	HIS	-	SEE REMARK 999	UNP P39077
K	1053	HIS	-	SEE REMARK 999	UNP P39077
K	1054	GLY	-	SEE REMARK 999	UNP P39077
K	1055	SER	-	SEE REMARK 999	UNP P39077
K	1056	GLY	-	SEE REMARK 999	UNP P39077
c	2001	GLY	-	SEE REMARK 999	UNP P39077
c	2002	SER	-	SEE REMARK 999	UNP P39077
c	2003	GLY	-	SEE REMARK 999	UNP P39077
c	2004	SER	-	SEE REMARK 999	UNP P39077
c	2005	GLY	-	SEE REMARK 999	UNP P39077
c	2006	TRP	-	SEE REMARK 999	UNP P39077
c	2007	SER	-	SEE REMARK 999	UNP P39077
c	2008	HIS	-	SEE REMARK 999	UNP P39077
c	2009	PRO	-	SEE REMARK 999	UNP P39077
c	2010	GLN	-	SEE REMARK 999	UNP P39077
c	2011	PHE	-	SEE REMARK 999	UNP P39077
c	2012	GLU	-	SEE REMARK 999	UNP P39077
c	2013	LYS	-	SEE REMARK 999	UNP P39077
c	2014	GLY	-	SEE REMARK 999	UNP P39077

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Chain	Residue	Modelled	Actual	Comment	Reference
c	2015	SER	-	SEE REMARK 999	UNP P39077
c	2016	GLY	-	SEE REMARK 999	UNP P39077
c	2017	LYS	-	SEE REMARK 999	UNP P39077
c	2018	ARG	-	SEE REMARK 999	UNP P39077
c	2019	ARG	-	SEE REMARK 999	UNP P39077
c	2020	TRP	-	SEE REMARK 999	UNP P39077
c	2021	LYS	-	SEE REMARK 999	UNP P39077
c	2022	LYS	-	SEE REMARK 999	UNP P39077
c	2023	ASN	-	SEE REMARK 999	UNP P39077
c	2024	PHE	-	SEE REMARK 999	UNP P39077
c	2025	ILE	-	SEE REMARK 999	UNP P39077
c	2026	ALA	-	SEE REMARK 999	UNP P39077
c	2027	VAL	-	SEE REMARK 999	UNP P39077
c	2028	SER	-	SEE REMARK 999	UNP P39077
c	2029	ALA	-	SEE REMARK 999	UNP P39077
c	2030	ALA	-	SEE REMARK 999	UNP P39077
c	2031	ASN	-	SEE REMARK 999	UNP P39077
c	2032	ARG	-	SEE REMARK 999	UNP P39077
c	2033	PHE	-	SEE REMARK 999	UNP P39077
c	2034	LYS	-	SEE REMARK 999	UNP P39077
c	2035	LYS	-	SEE REMARK 999	UNP P39077
c	2036	ILE	-	SEE REMARK 999	UNP P39077
c	2037	SER	-	SEE REMARK 999	UNP P39077
c	2038	SER	-	SEE REMARK 999	UNP P39077
c	2039	SER	-	SEE REMARK 999	UNP P39077
c	2040	GLY	-	SEE REMARK 999	UNP P39077
c	2041	ALA	-	SEE REMARK 999	UNP P39077
c	2042	LEU	-	SEE REMARK 999	UNP P39077
c	2043	GLY	-	SEE REMARK 999	UNP P39077
c	2044	SER	-	SEE REMARK 999	UNP P39077
c	2045	GLY	-	SEE REMARK 999	UNP P39077
c	2046	HIS	-	SEE REMARK 999	UNP P39077
c	2047	HIS	-	SEE REMARK 999	UNP P39077
c	2048	HIS	-	SEE REMARK 999	UNP P39077
c	2049	HIS	-	SEE REMARK 999	UNP P39077
c	2050	HIS	-	SEE REMARK 999	UNP P39077
c	2051	HIS	-	SEE REMARK 999	UNP P39077
c	2052	HIS	-	SEE REMARK 999	UNP P39077
c	2053	HIS	-	SEE REMARK 999	UNP P39077
c	2054	GLY	-	SEE REMARK 999	UNP P39077
c	2055	SER	-	SEE REMARK 999	UNP P39077
c	2056	GLY	-	SEE REMARK 999	UNP P39077

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Chain	Residue	Modelled	Actual	Comment	Reference
k	2001	GLY	-	SEE REMARK 999	UNP P39077
k	2002	SER	-	SEE REMARK 999	UNP P39077
k	2003	GLY	-	SEE REMARK 999	UNP P39077
k	2004	SER	-	SEE REMARK 999	UNP P39077
k	2005	GLY	-	SEE REMARK 999	UNP P39077
k	2006	TRP	-	SEE REMARK 999	UNP P39077
k	2007	SER	-	SEE REMARK 999	UNP P39077
k	2008	HIS	-	SEE REMARK 999	UNP P39077
k	2009	PRO	-	SEE REMARK 999	UNP P39077
k	2010	GLN	-	SEE REMARK 999	UNP P39077
k	2011	PHE	-	SEE REMARK 999	UNP P39077
k	2012	GLU	-	SEE REMARK 999	UNP P39077
k	2013	LYS	-	SEE REMARK 999	UNP P39077
k	2014	GLY	-	SEE REMARK 999	UNP P39077
k	2015	SER	-	SEE REMARK 999	UNP P39077
k	2016	GLY	-	SEE REMARK 999	UNP P39077
k	2017	LYS	-	SEE REMARK 999	UNP P39077
k	2018	ARG	-	SEE REMARK 999	UNP P39077
k	2019	ARG	-	SEE REMARK 999	UNP P39077
k	2020	TRP	-	SEE REMARK 999	UNP P39077
k	2021	LYS	-	SEE REMARK 999	UNP P39077
k	2022	LYS	-	SEE REMARK 999	UNP P39077
k	2023	ASN	-	SEE REMARK 999	UNP P39077
k	2024	PHE	-	SEE REMARK 999	UNP P39077
k	2025	ILE	-	SEE REMARK 999	UNP P39077
k	2026	ALA	-	SEE REMARK 999	UNP P39077
k	2027	VAL	-	SEE REMARK 999	UNP P39077
k	2028	SER	-	SEE REMARK 999	UNP P39077
k	2029	ALA	-	SEE REMARK 999	UNP P39077
k	2030	ALA	-	SEE REMARK 999	UNP P39077
k	2031	ASN	-	SEE REMARK 999	UNP P39077
k	2032	ARG	-	SEE REMARK 999	UNP P39077
k	2033	PHE	-	SEE REMARK 999	UNP P39077
k	2034	LYS	-	SEE REMARK 999	UNP P39077
k	2035	LYS	-	SEE REMARK 999	UNP P39077
k	2036	ILE	-	SEE REMARK 999	UNP P39077
k	2037	SER	-	SEE REMARK 999	UNP P39077
k	2038	SER	-	SEE REMARK 999	UNP P39077
k	2039	SER	-	SEE REMARK 999	UNP P39077
k	2040	GLY	-	SEE REMARK 999	UNP P39077
k	2041	ALA	-	SEE REMARK 999	UNP P39077
k	2042	LEU	-	SEE REMARK 999	UNP P39077

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Chain	Residue	Modelled	Actual	Comment	Reference
k	2043	GLY	-	SEE REMARK 999	UNP P39077
k	2044	SER	-	SEE REMARK 999	UNP P39077
k	2045	GLY	-	SEE REMARK 999	UNP P39077
k	2046	HIS	-	SEE REMARK 999	UNP P39077
k	2047	HIS	-	SEE REMARK 999	UNP P39077
k	2048	HIS	-	SEE REMARK 999	UNP P39077
k	2049	HIS	-	SEE REMARK 999	UNP P39077
k	2050	HIS	-	SEE REMARK 999	UNP P39077
k	2051	HIS	-	SEE REMARK 999	UNP P39077
k	2052	HIS	-	SEE REMARK 999	UNP P39077
k	2053	HIS	-	SEE REMARK 999	UNP P39077
k	2054	GLY	-	SEE REMARK 999	UNP P39077
k	2055	SER	-	SEE REMARK 999	UNP P39077
k	2056	GLY	-	SEE REMARK 999	UNP P39077

- Molecule 4 is a protein called T-complex protein 1 subunit delta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	522	Total	C	N	O	S	0	0	0
			3398	2092	609	686	11			
4	L	522	Total	C	N	O	S	0	0	0
			3398	2092	609	686	11			
4	d	522	Total	C	N	O	S	0	0	0
			3398	2092	609	686	11			
4	l	522	Total	C	N	O	S	0	0	0
			3398	2092	609	686	11			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	345	ASP	GLY	engineered mutation	UNP P39078
L	345	ASP	GLY	engineered mutation	UNP P39078
d	1345	ASP	GLY	engineered mutation	UNP P39078
l	1345	ASP	GLY	engineered mutation	UNP P39078

- Molecule 5 is a protein called T-complex protein 1 subunit epsilon.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	E	525	Total	C	N	O	S	0	0	0
			3437	2110	599	720	8			
5	M	525	Total	C	N	O	S	0	0	0
			3437	2110	599	720	8			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	e	525	Total	C	N	O	S	0	0	0
			3437	2110	599	720	8			
5	m	525	Total	C	N	O	S	0	0	0
			3437	2110	599	720	8			

- Molecule 6 is a protein called T-complex protein 1 subunit zeta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	F	533	Total	C	N	O	S	0	0	0
			3631	2253	629	740	9			
6	N	533	Total	C	N	O	S	0	0	0
			3628	2250	629	740	9			
6	f	533	Total	C	N	O	S	0	0	0
			3633	2255	630	739	9			
6	n	533	Total	C	N	O	S	0	0	0
			3629	2252	629	739	9			

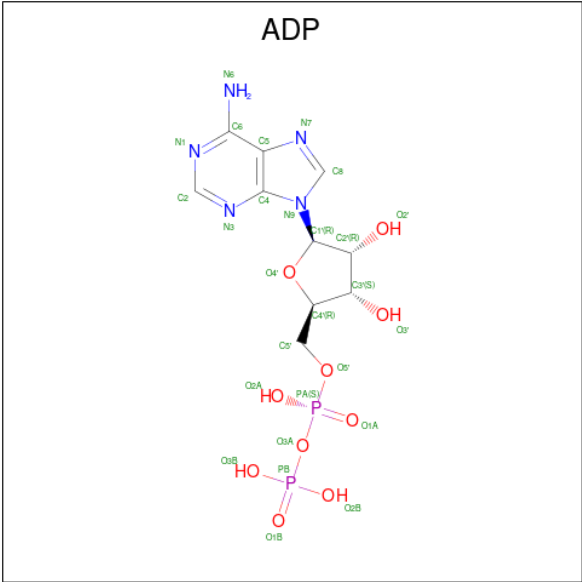
- Molecule 7 is a protein called T-complex protein 1 subunit eta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	G	509	Total	C	N	O	S	0	0	0
			3317	2055	583	669	10			
7	O	509	Total	C	N	O	S	0	0	0
			3314	2052	583	669	10			
7	g	509	Total	C	N	O	S	0	0	0
			3314	2052	583	669	10			
7	o	509	Total	C	N	O	S	0	0	0
			3314	2052	583	669	10			

- Molecule 8 is a protein called T-complex protein 1 subunit theta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	H	525	Total	C	N	O	S	0	0	0
			3487	2161	608	705	13			
8	P	525	Total	C	N	O	S	0	0	0
			3487	2161	608	705	13			
8	h	525	Total	C	N	O	S	0	0	0
			3485	2159	608	705	13			
8	p	525	Total	C	N	O	S	0	0	0
			3487	2161	608	705	13			

- Molecule 9 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: C₁₀H₁₅N₅O₁₀P₂).



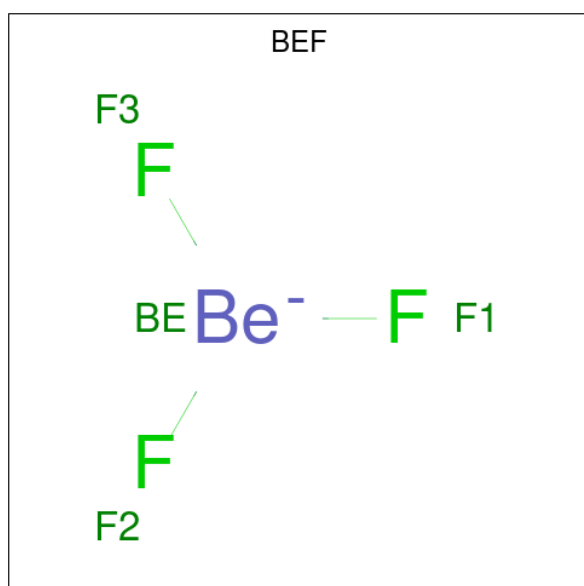
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
9	A	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	B	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	C	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	D	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	E	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	F	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	G	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	H	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	J	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	L	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	M	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	N	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	P	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	a	1	Total	C	N	O	P	0	0
			27	10	5	10	2		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
9	b	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	e	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	f	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	g	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	h	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	k	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	l	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	m	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	n	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	p	1	Total	C	N	O	P	0	0
			27	10	5	10	2		

- Molecule 10 is BERYLLIUM TRIFLUORIDE ION (CCD ID: BEF) (formula: BeF₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
10	A	1	Total	Be	F	0	0
			4	1	3		

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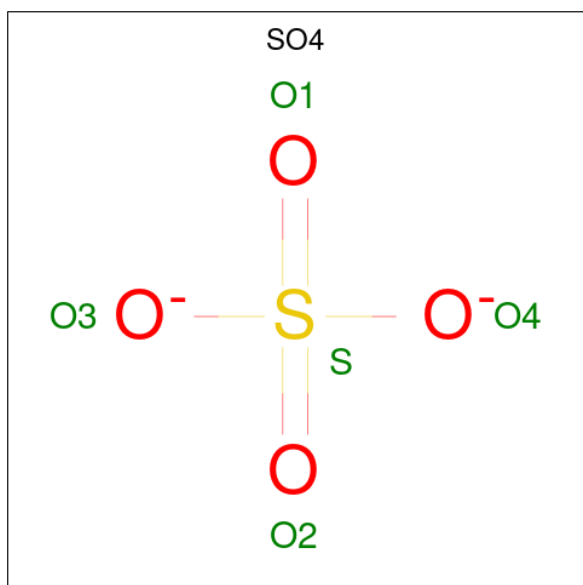
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
10	B	1	Total 4	Be 1	F 3	0	0
10	C	1	Total 4	Be 1	F 3	0	0
10	D	1	Total 4	Be 1	F 3	0	0
10	E	1	Total 4	Be 1	F 3	0	0
10	F	1	Total 4	Be 1	F 3	0	0
10	G	1	Total 4	Be 1	F 3	0	0
10	H	1	Total 4	Be 1	F 3	0	0
10	J	1	Total 4	Be 1	F 3	0	0
10	L	1	Total 4	Be 1	F 3	0	0
10	M	1	Total 4	Be 1	F 3	0	0
10	N	1	Total 4	Be 1	F 3	0	0
10	P	1	Total 4	Be 1	F 3	0	0
10	a	1	Total 4	Be 1	F 3	0	0
10	b	1	Total 4	Be 1	F 3	0	0
10	e	1	Total 4	Be 1	F 3	0	0
10	f	1	Total 4	Be 1	F 3	0	0
10	g	1	Total 4	Be 1	F 3	0	0
10	h	1	Total 4	Be 1	F 3	0	0
10	k	1	Total 4	Be 1	F 3	0	0
10	l	1	Total 4	Be 1	F 3	0	0
10	m	1	Total 4	Be 1	F 3	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
10	n	1	Total	Be	F	0	0
			4	1	3		
10	p	1	Total	Be	F	0	0
			4	1	3		

- Molecule 11 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
11	I	1	Total	O	S	0	0
			5	4	1		
11	K	1	Total	O	S	0	0
			5	4	1		
11	O	1	Total	O	S	0	0
			5	4	1		
11	c	1	Total	O	S	0	0
			5	4	1		
11	d	1	Total	O	S	0	0
			5	4	1		
11	i	1	Total	O	S	0	0
			5	4	1		
11	j	1	Total	O	S	0	0
			5	4	1		
11	o	1	Total	O	S	0	0
			5	4	1		

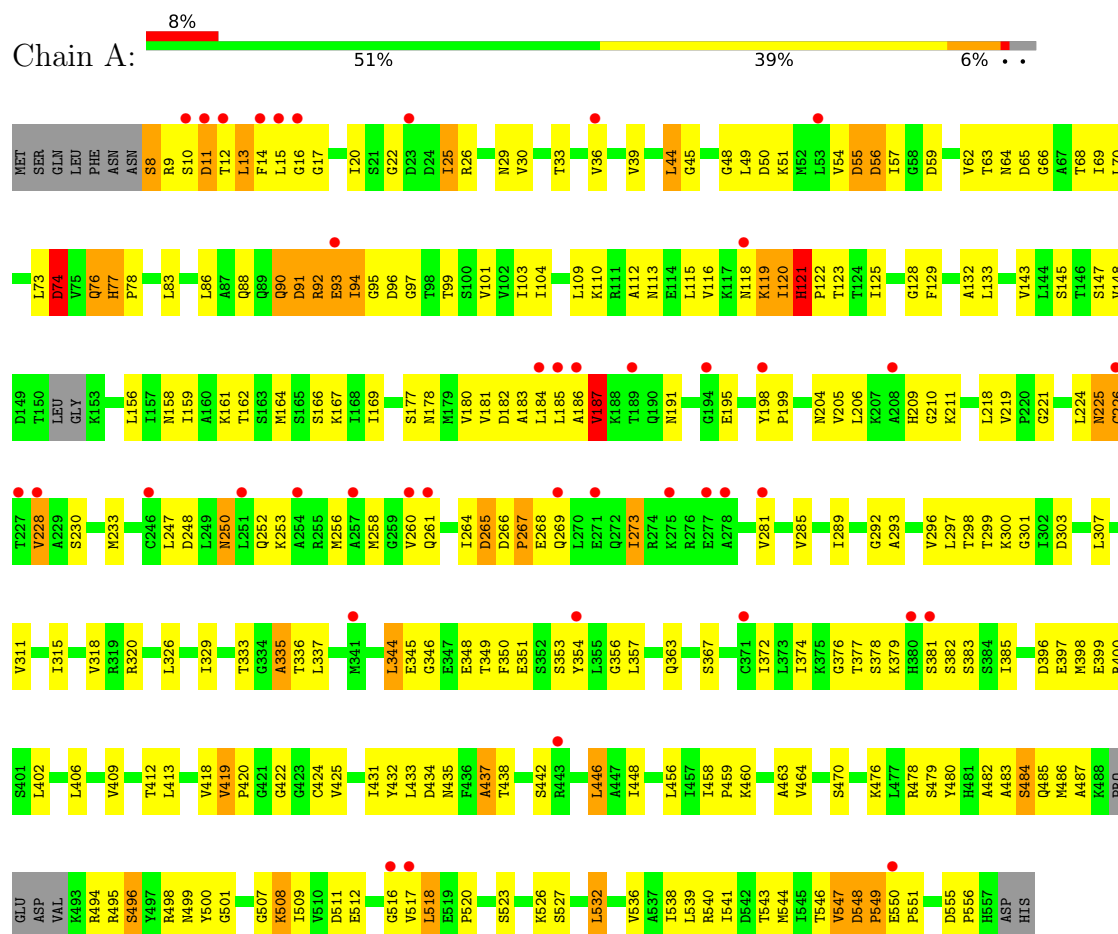
- Molecule 12 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
12	B	1	Total 1	O 1	0	0
12	E	1	Total 1	O 1	0	0
12	G	1	Total 1	O 1	0	0
12	M	1	Total 1	O 1	0	0
12	e	1	Total 1	O 1	0	0
12	g	1	Total 1	O 1	0	0
12	m	1	Total 1	O 1	0	0

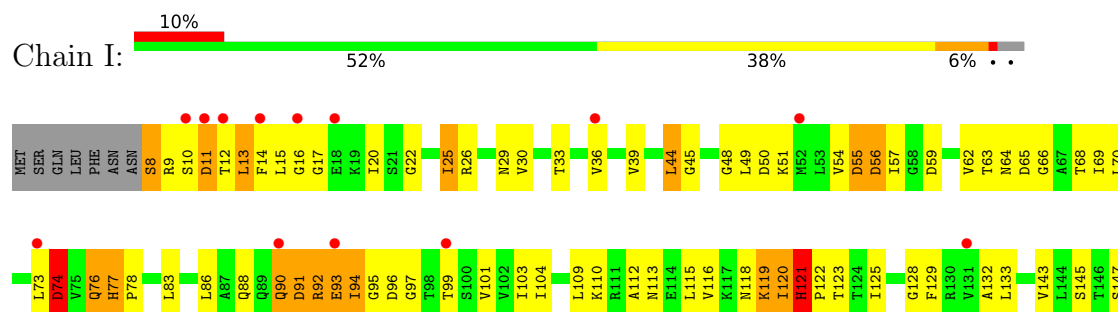
3 Residue-property plots

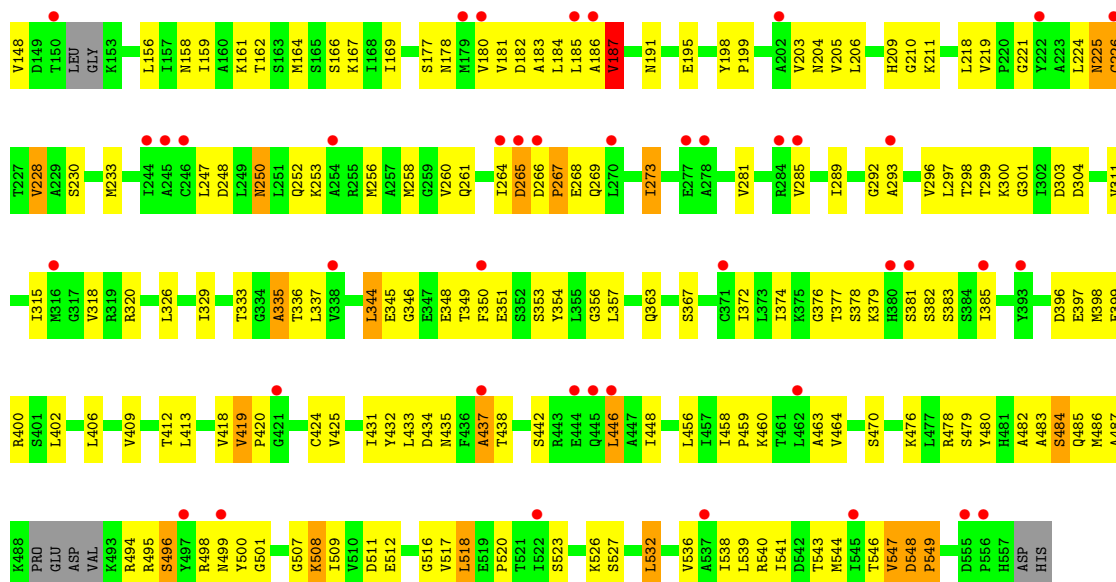
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

• Molecule 1: T-complex protein 1 subunit alpha

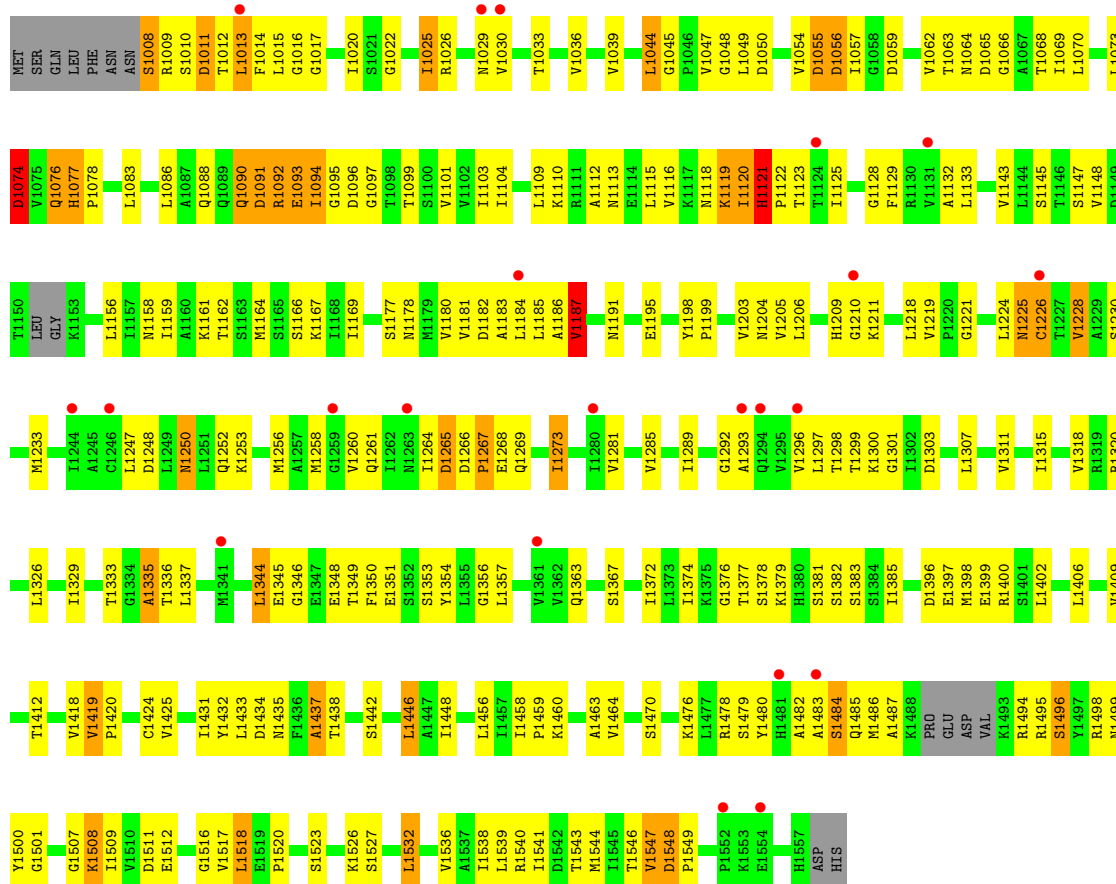


• Molecule 1: T-complex protein 1 subunit alpha

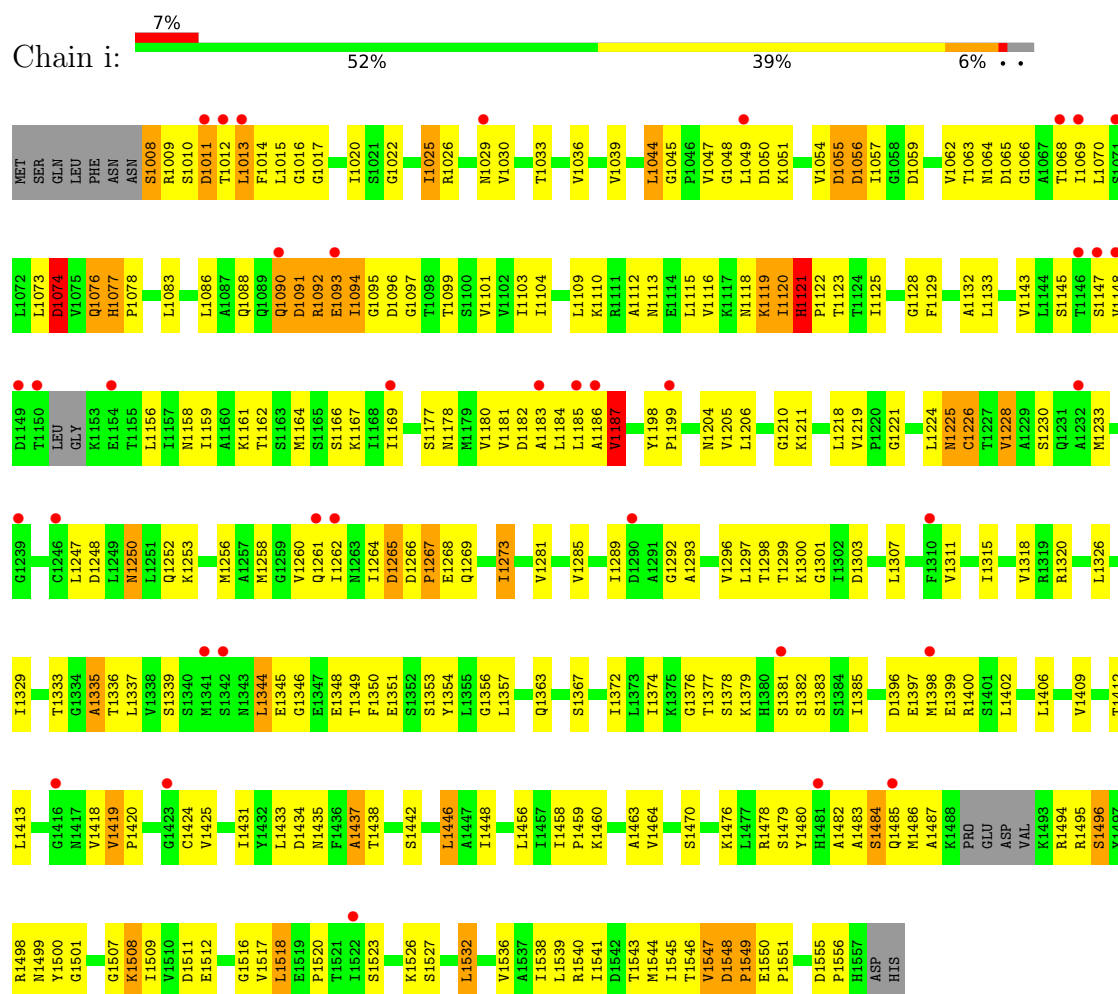




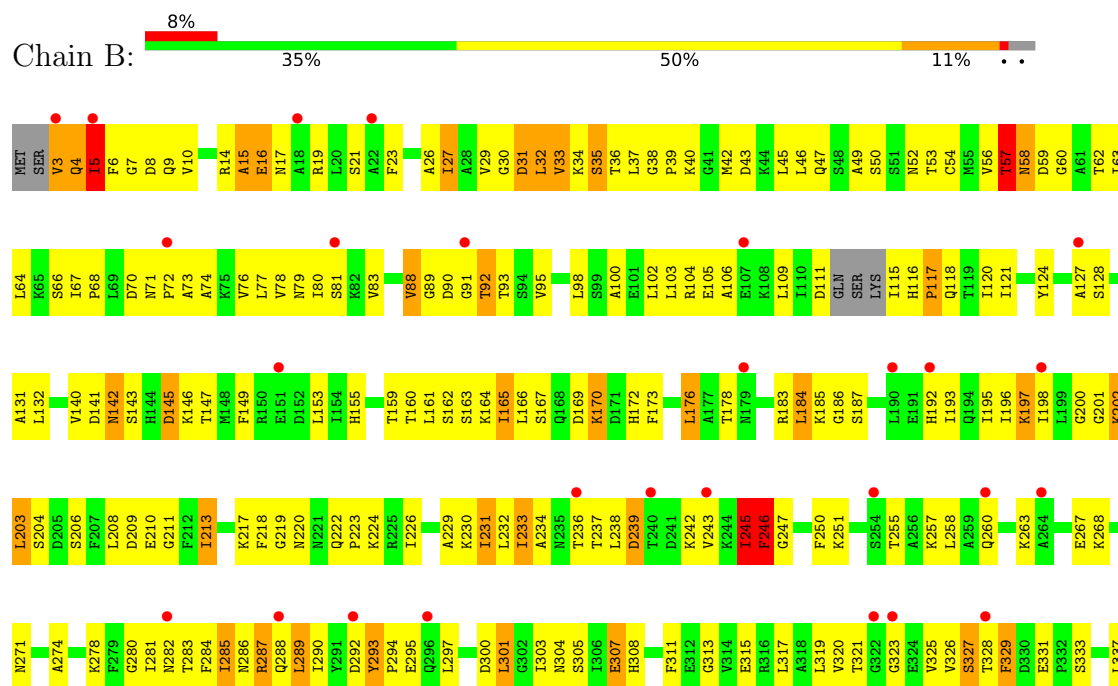
• Molecule 1: T-complex protein 1 subunit alpha

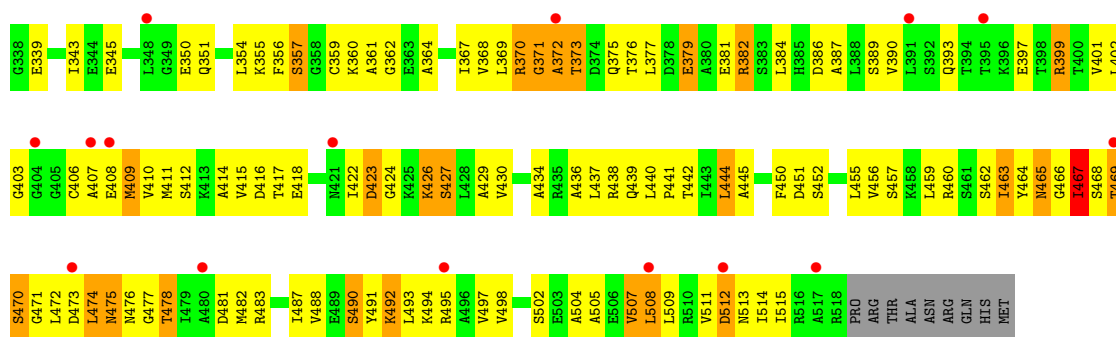


• Molecule 1: T-complex protein 1 subunit alpha

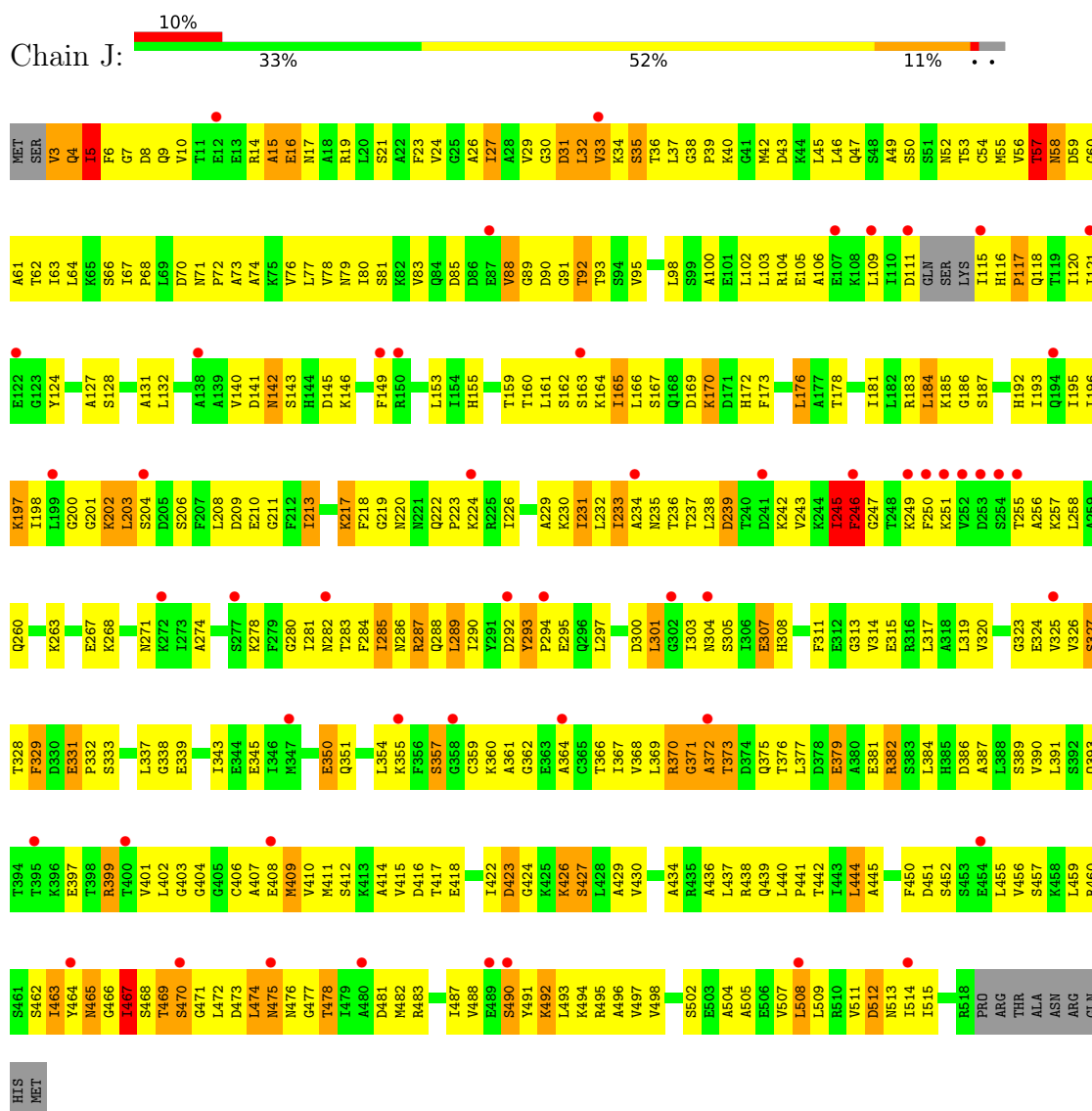


• Molecule 2: T-complex protein 1 subunit beta



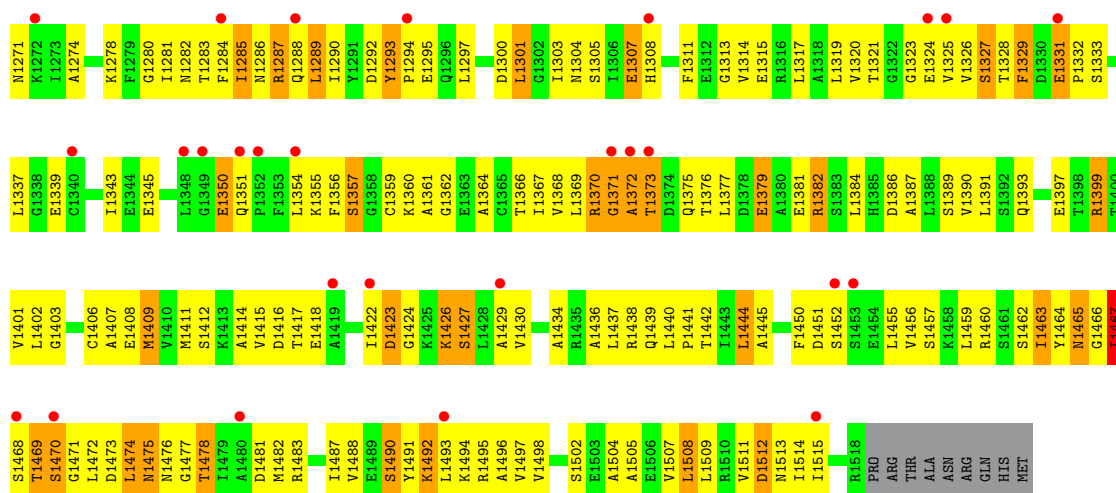


• Molecule 2: T-complex protein 1 subunit beta

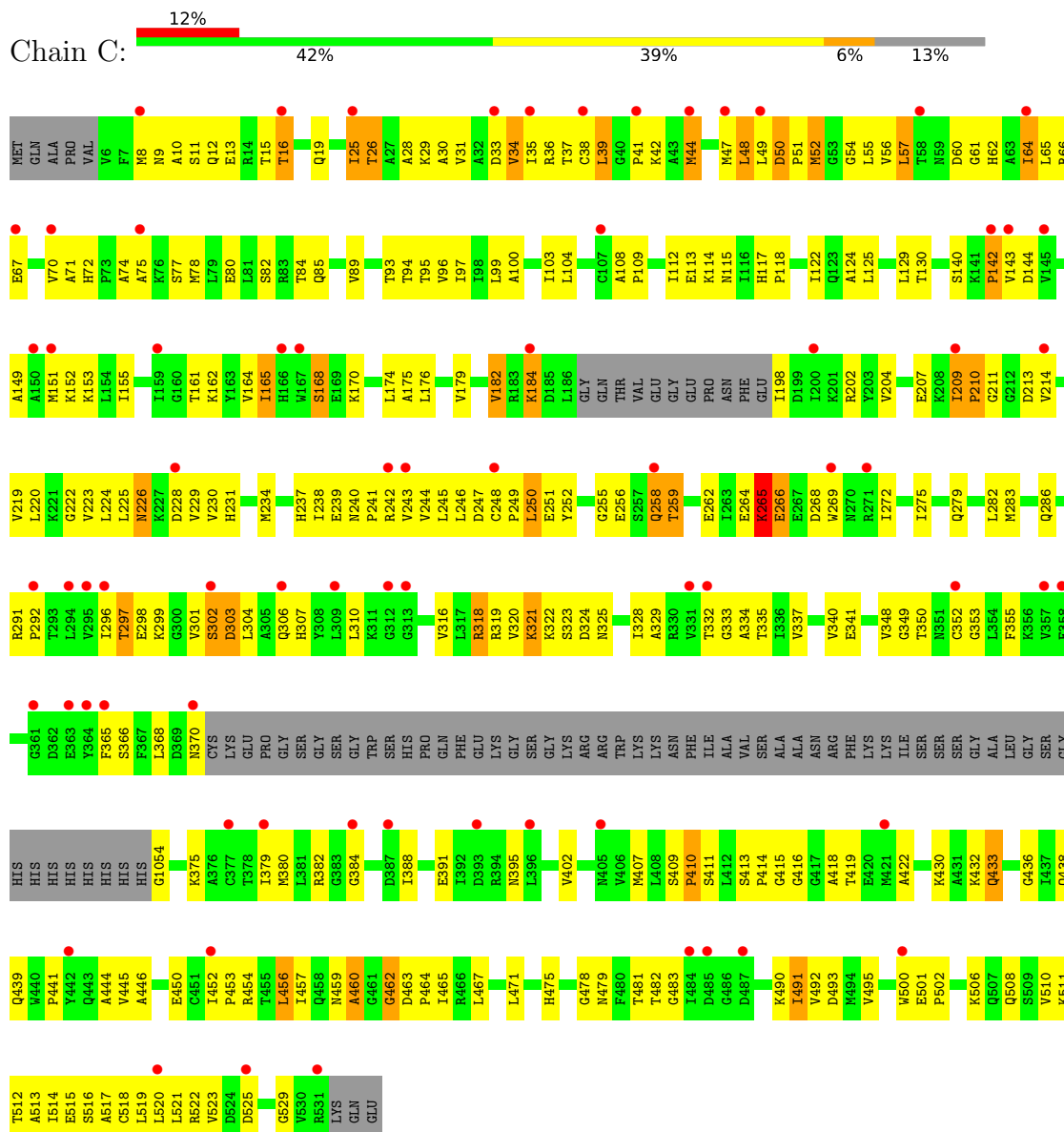


• Molecule 2: T-complex protein 1 subunit beta

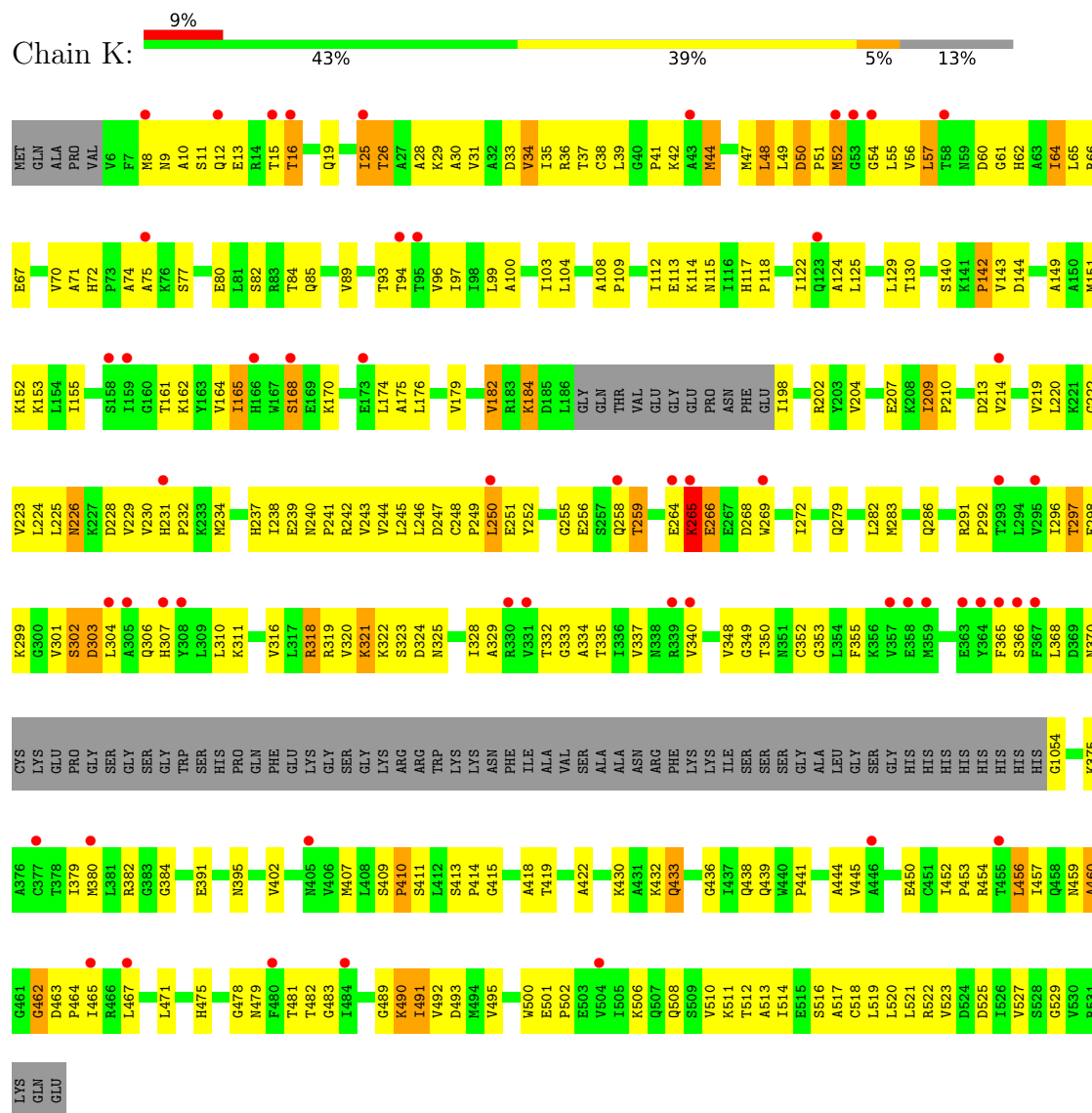




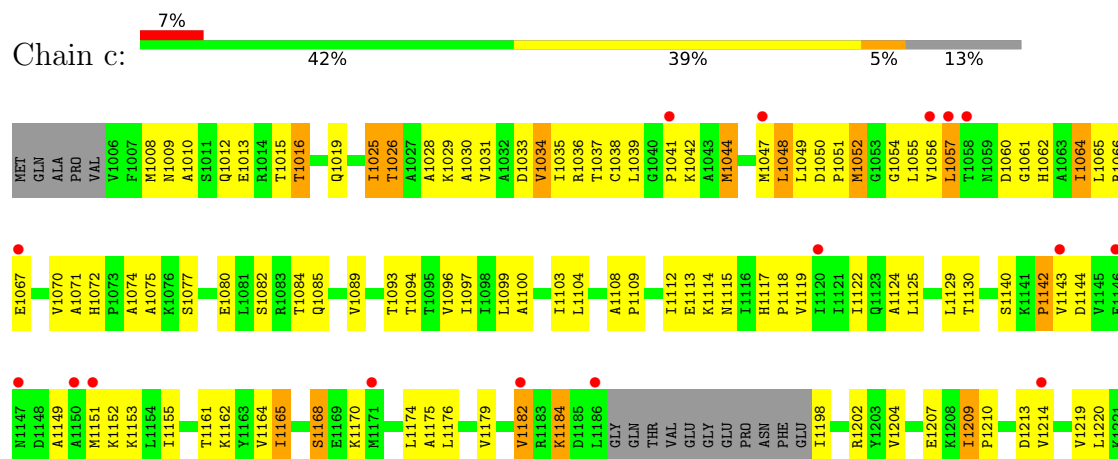
• Molecule 3: T-complex protein 1 subunit gamma

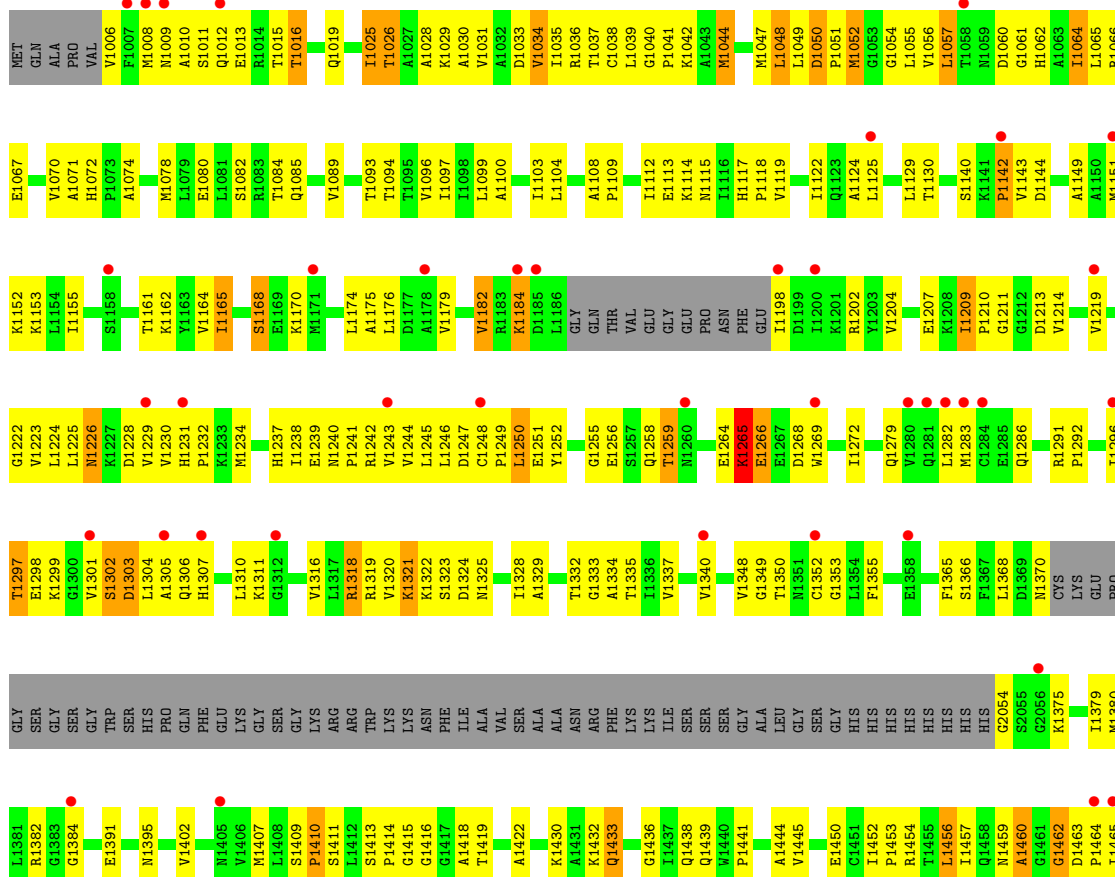


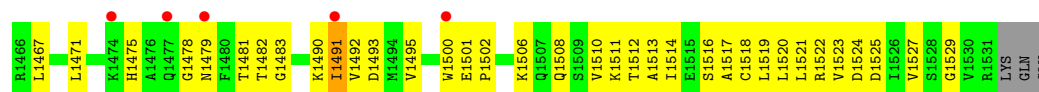
- Molecule 3: T-complex protein 1 subunit gamma



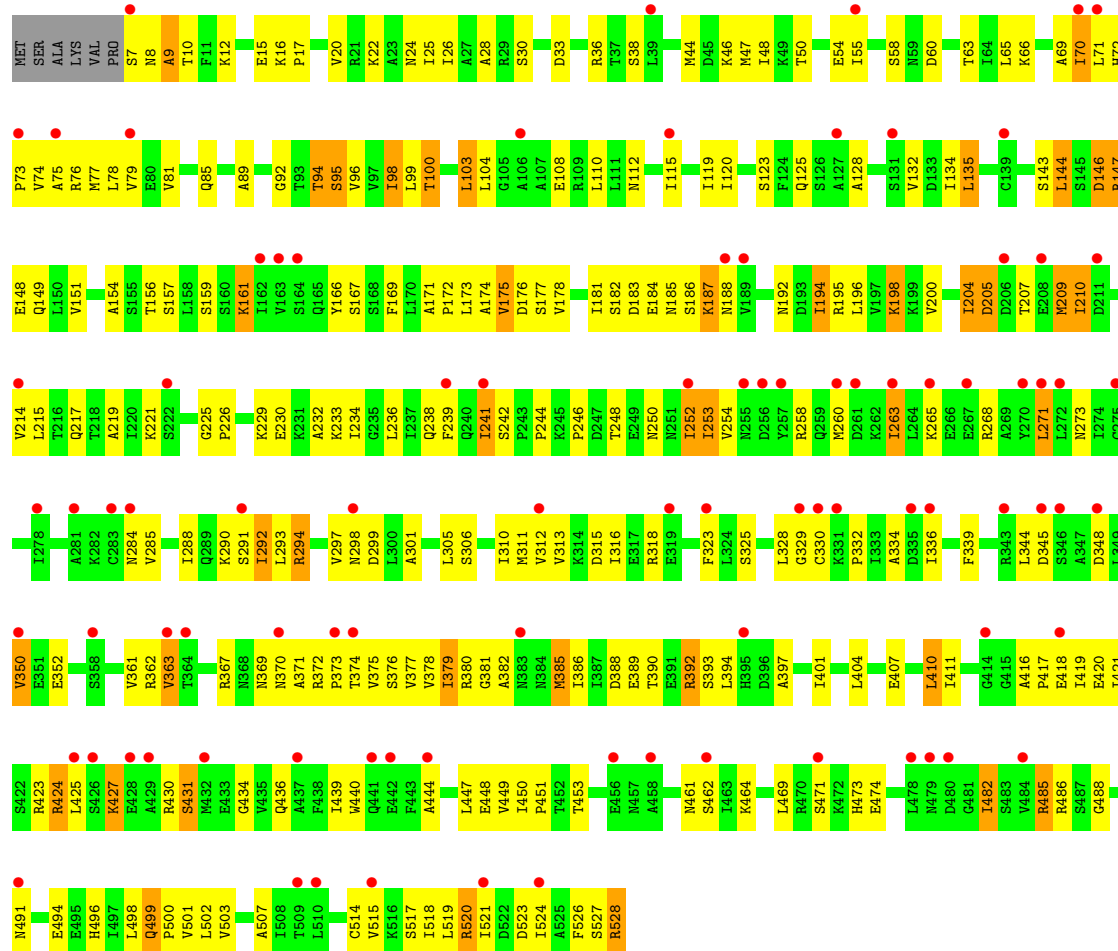
- Molecule 3: T-complex protein 1 subunit gamma



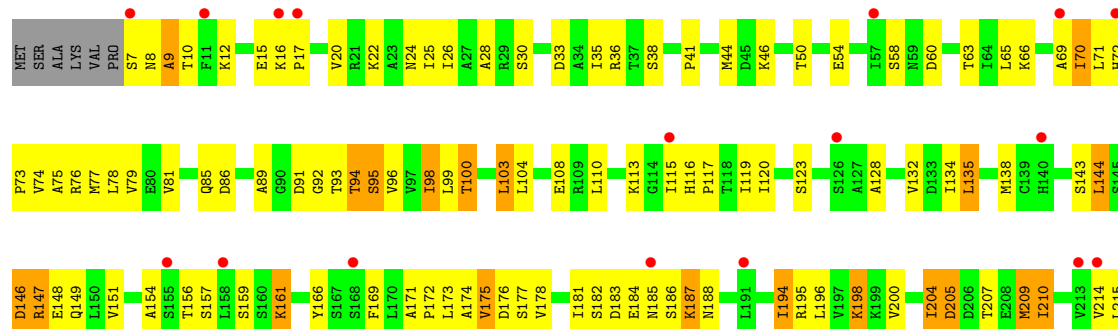




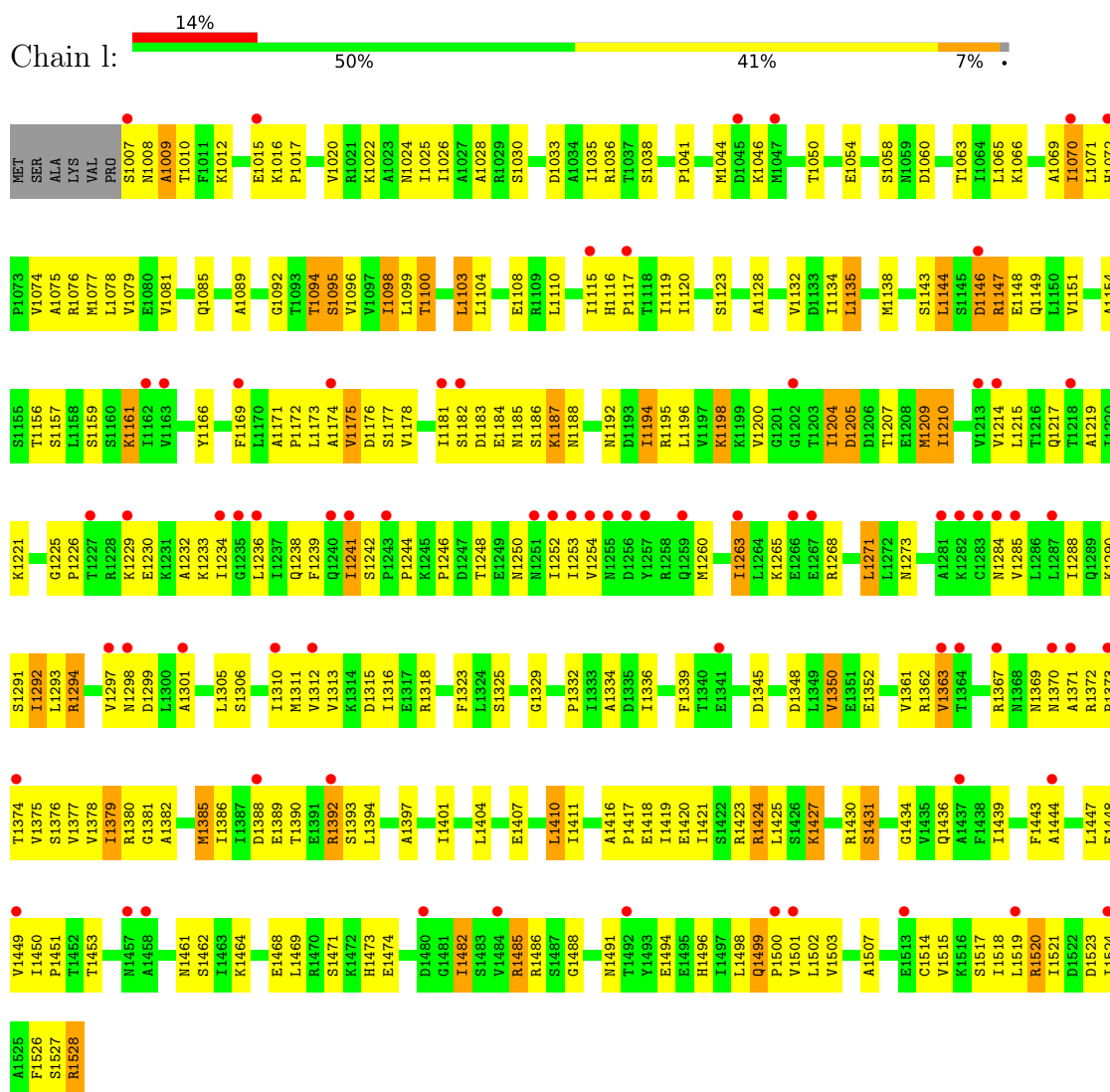
• Molecule 4: T-complex protein 1 subunit delta



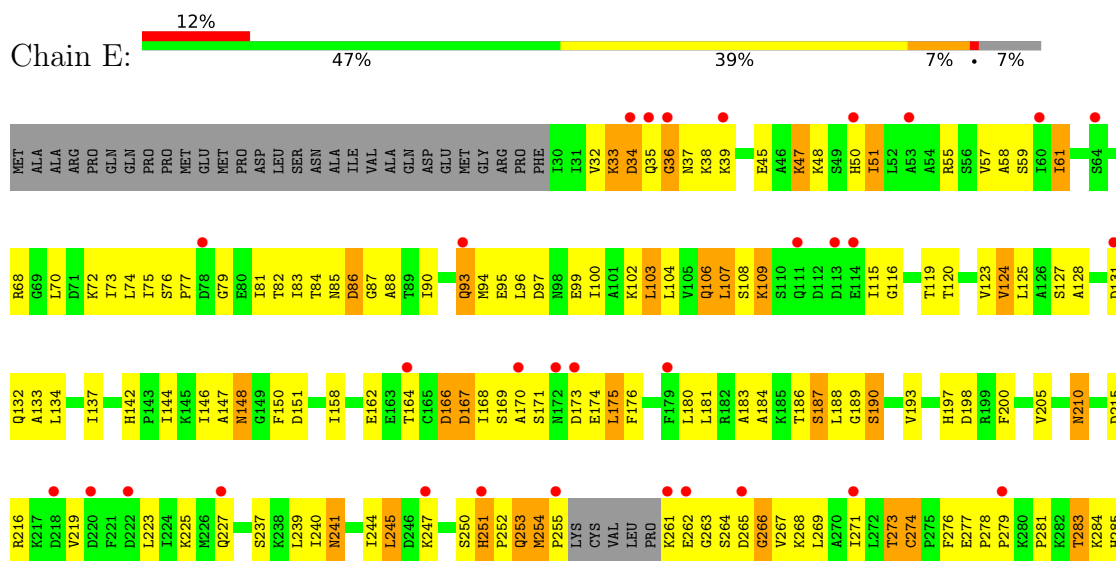
• Molecule 4: T-complex protein 1 subunit delta

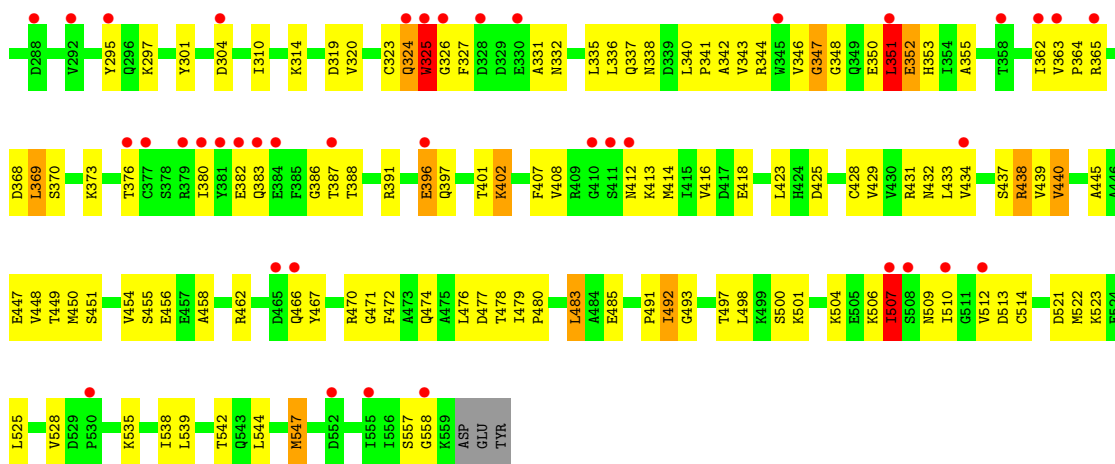




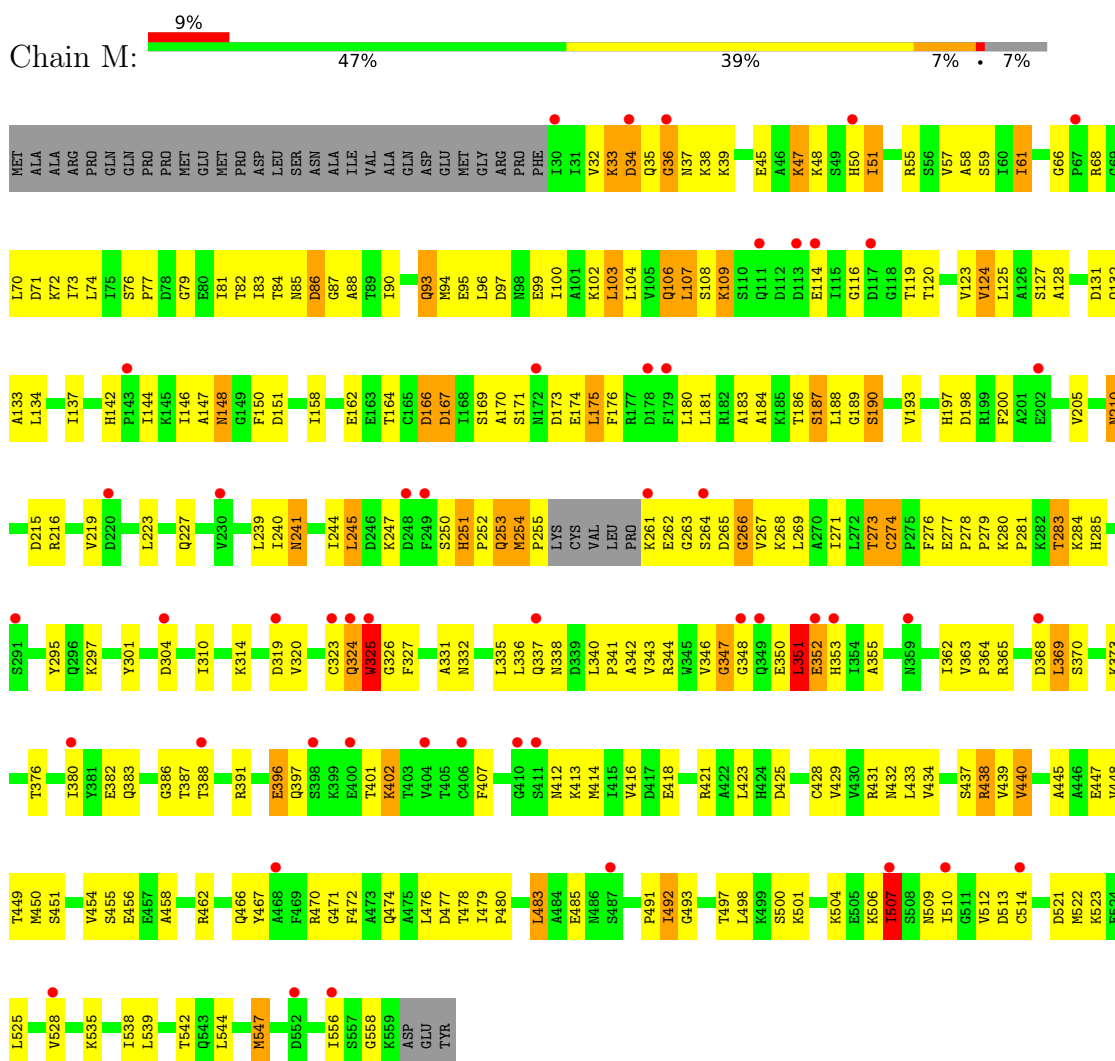


• Molecule 5: T-complex protein 1 subunit epsilon



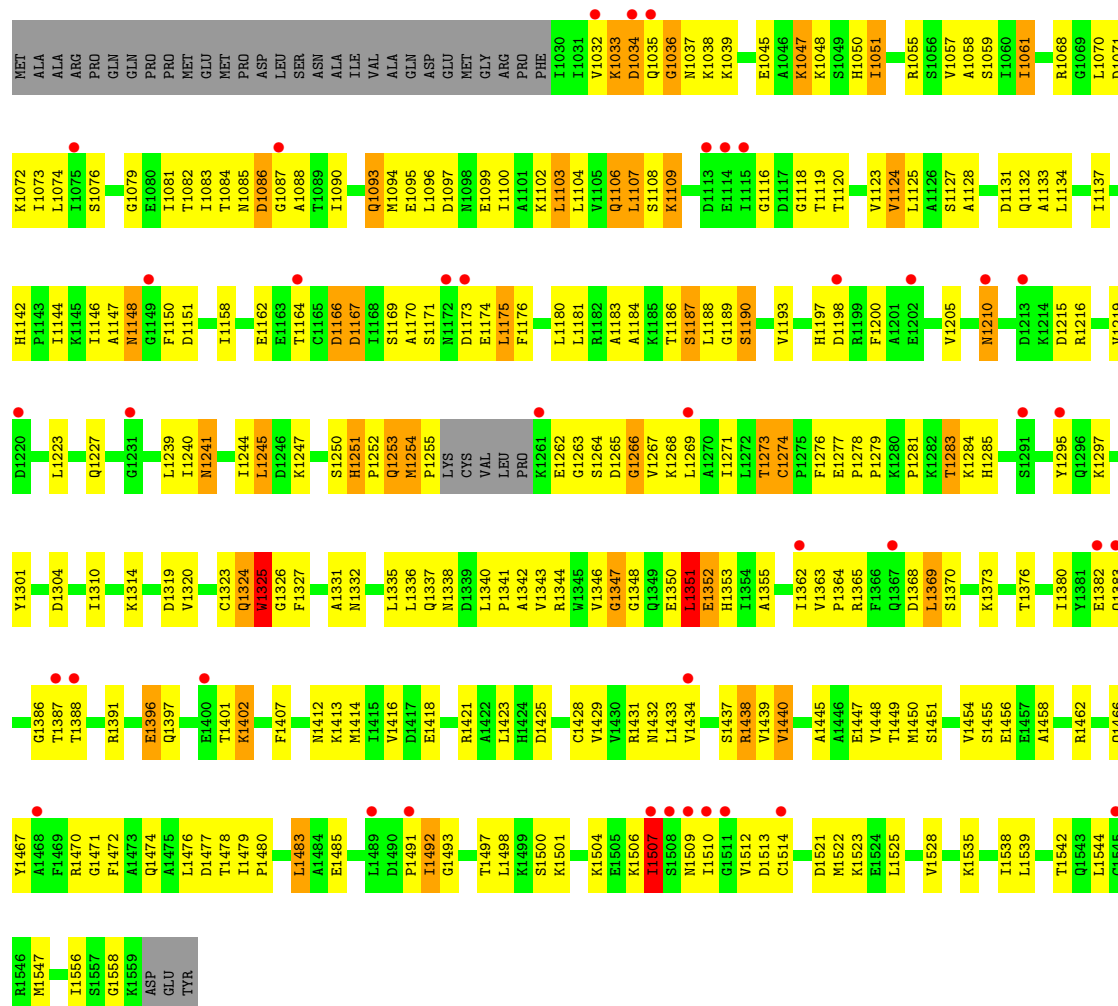


- Molecule 5: T-complex protein 1 subunit epsilon

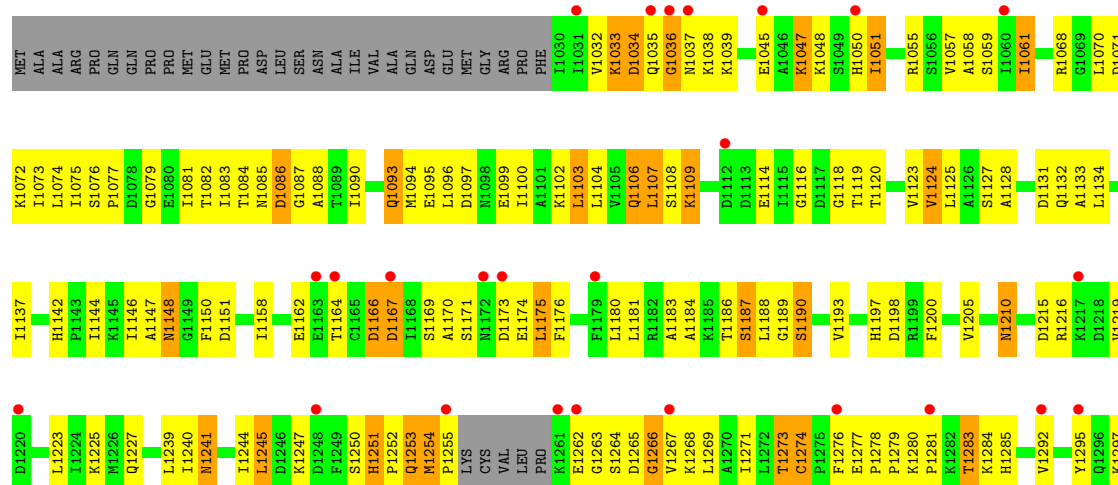


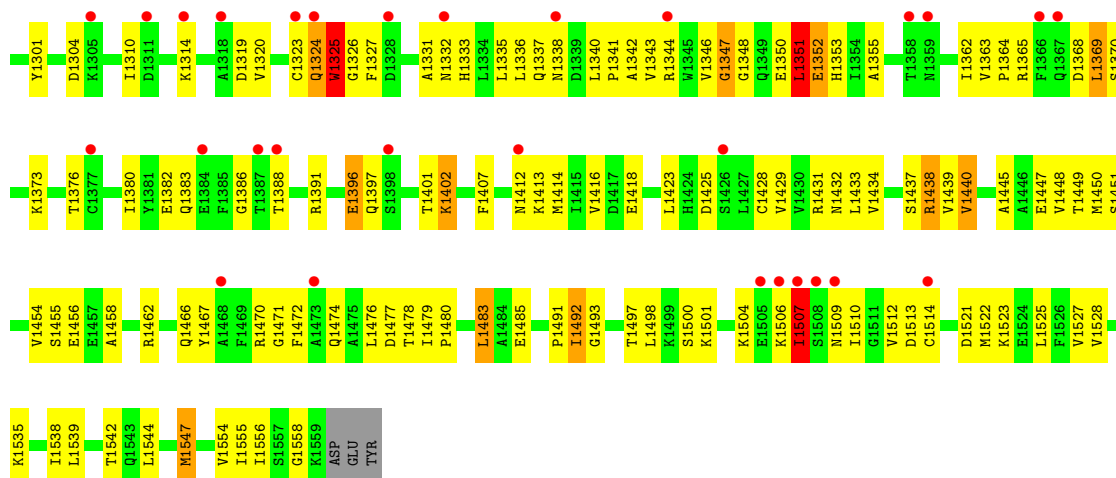
- Molecule 5: T-complex protein 1 subunit epsilon





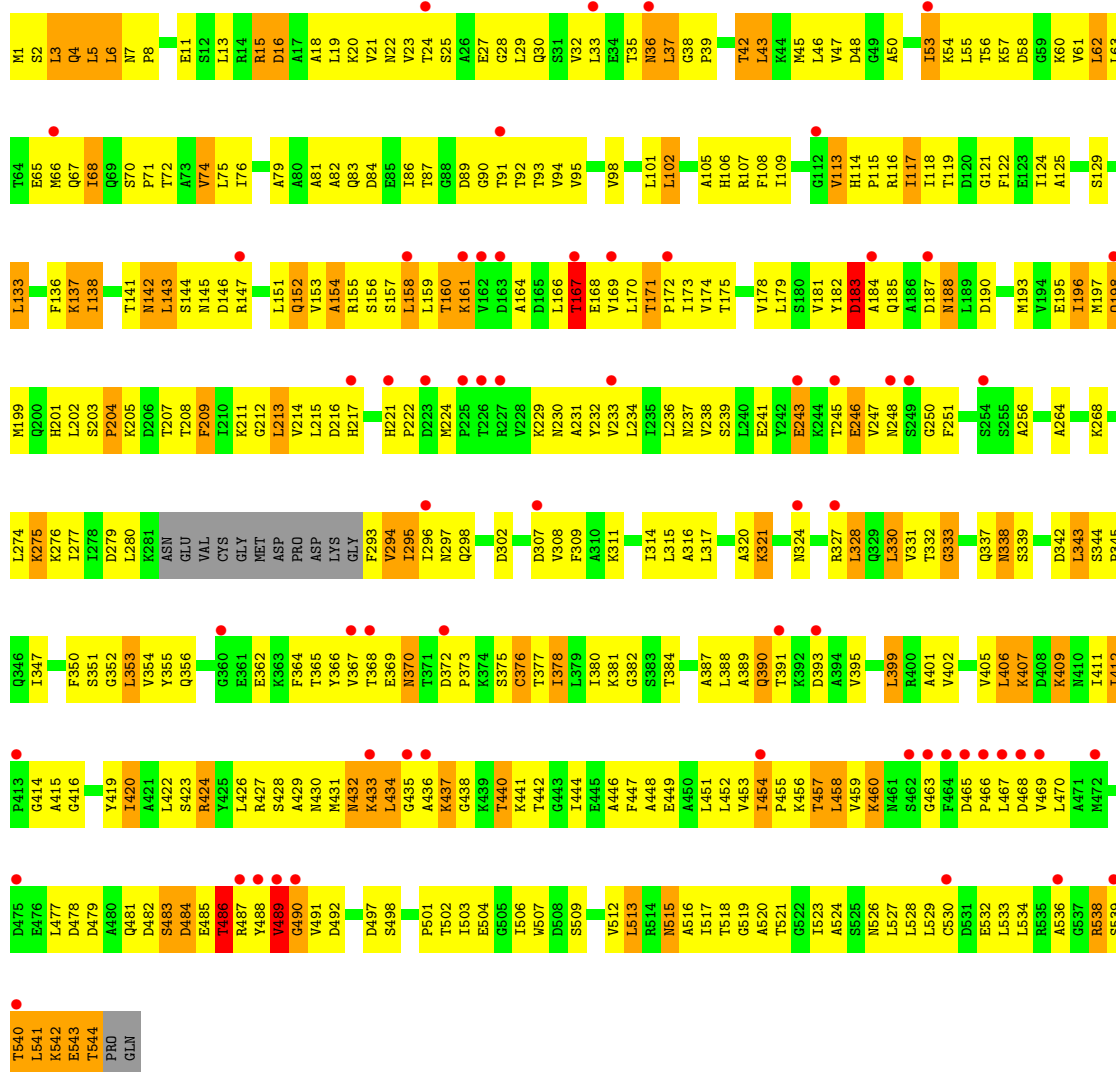
• Molecule 5: T-complex protein 1 subunit epsilon



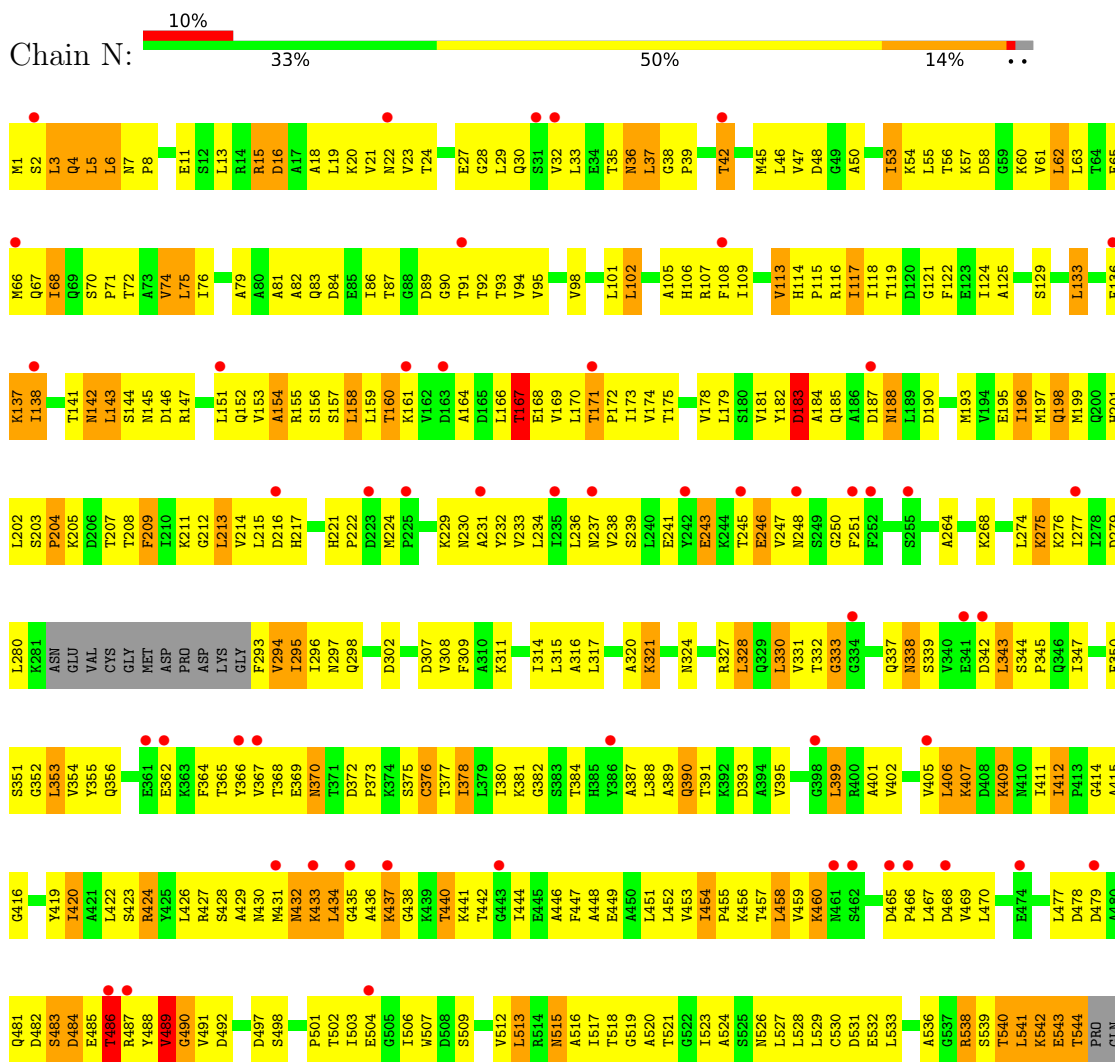


• Molecule 6: T-complex protein 1 subunit zeta

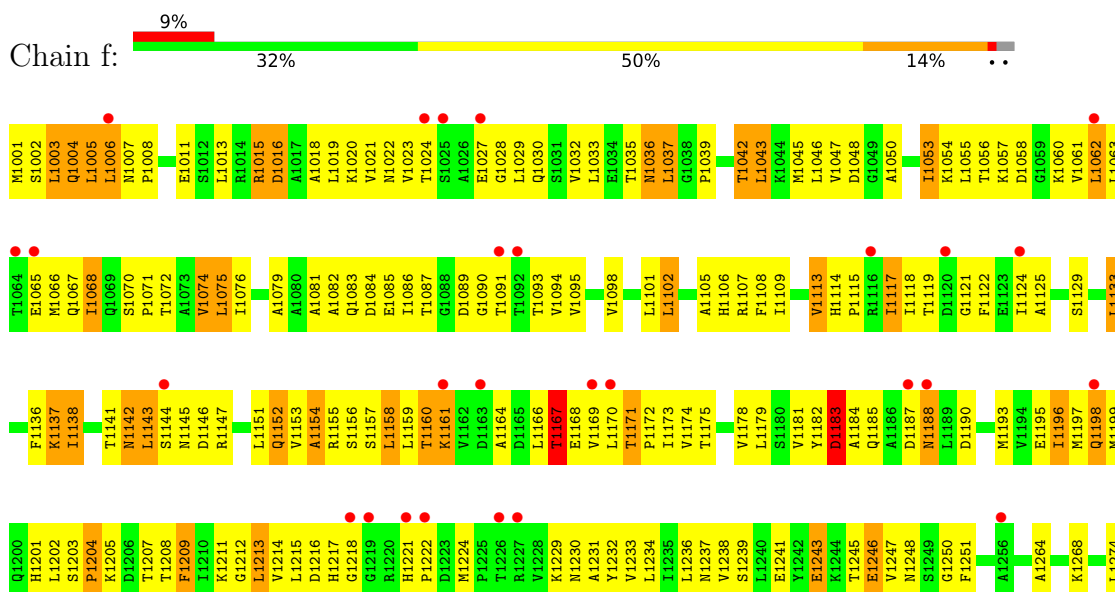
Chain F: 12% 32% 50% 14% ..

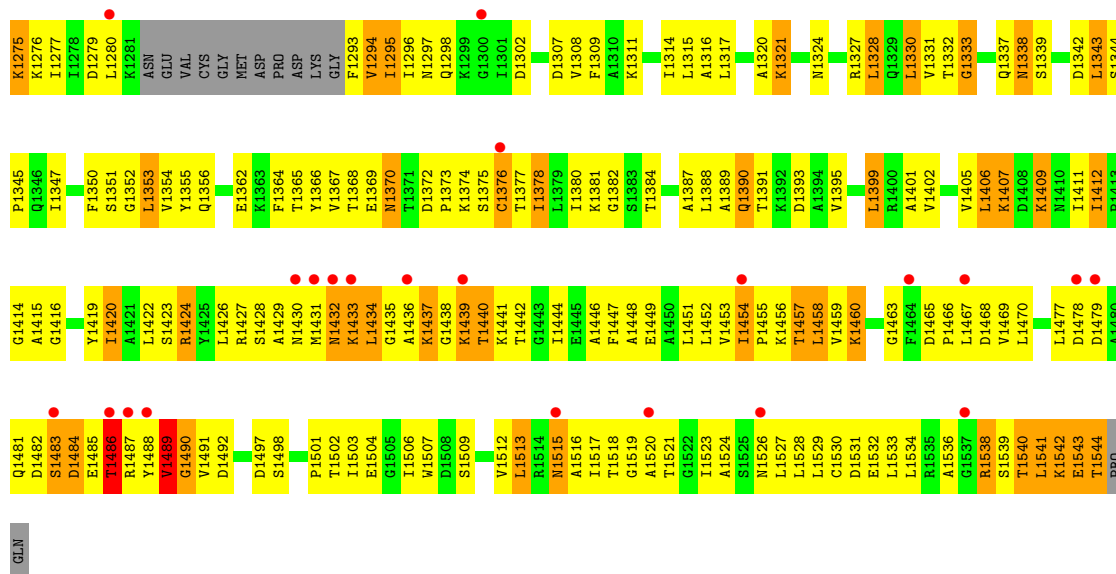


● Molecule 6: T-complex protein 1 subunit zeta

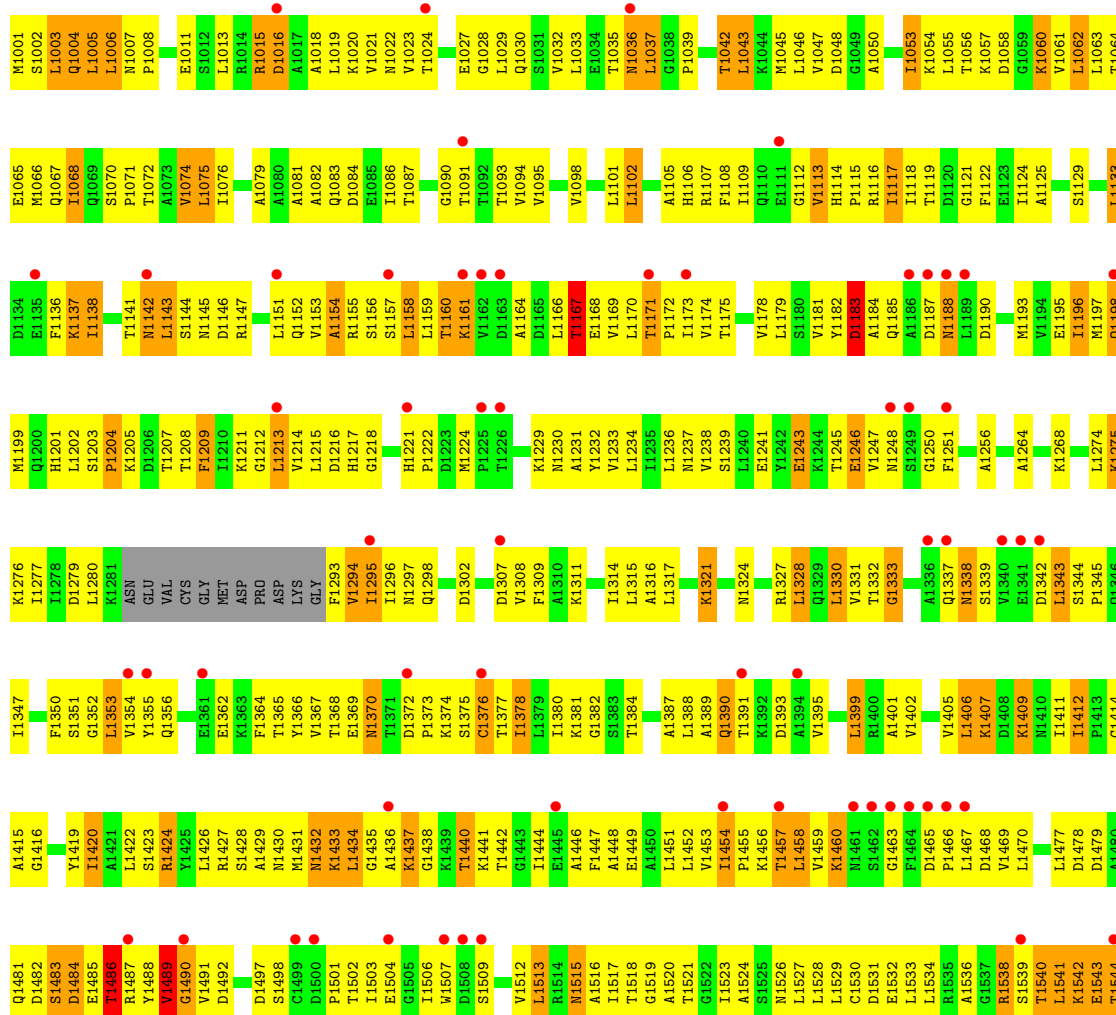


● Molecule 6: T-complex protein 1 subunit zeta





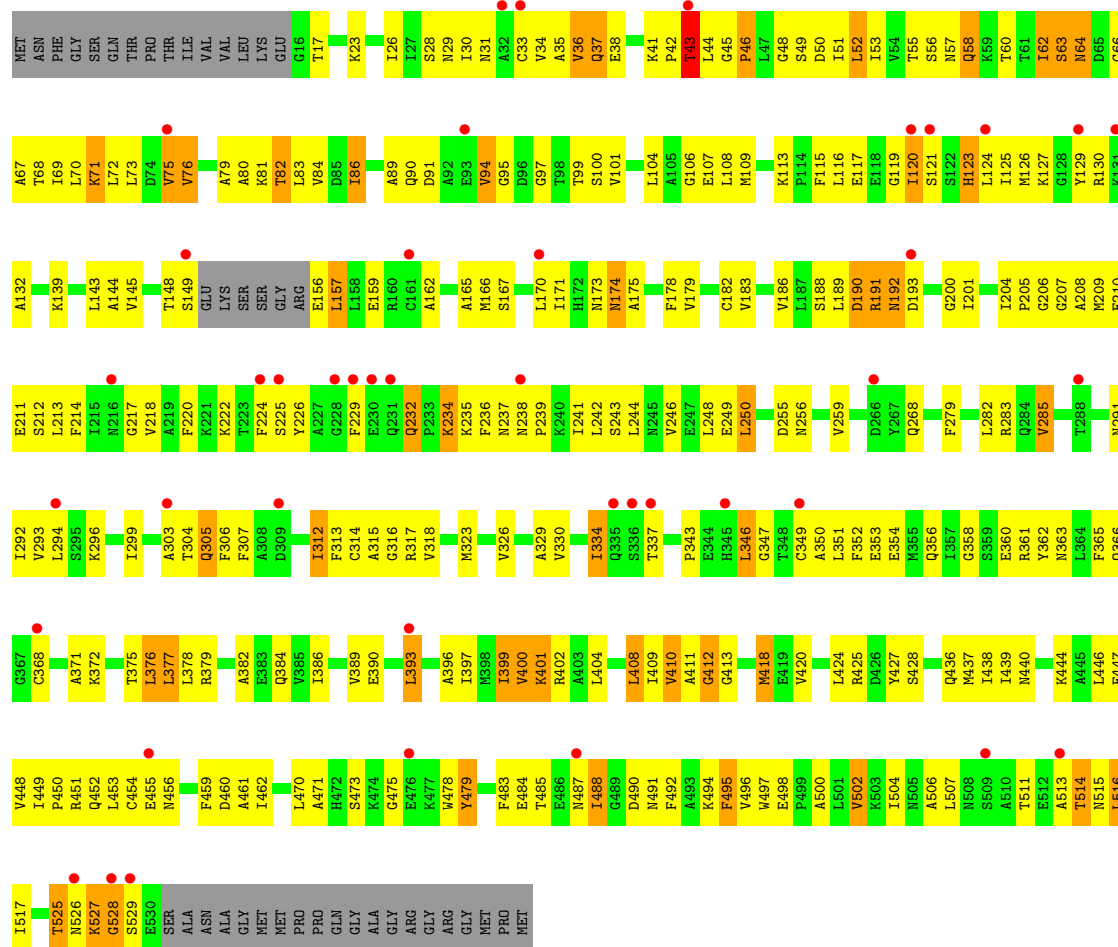
• Molecule 6: T-complex protein 1 subunit zeta



PRO
GLN

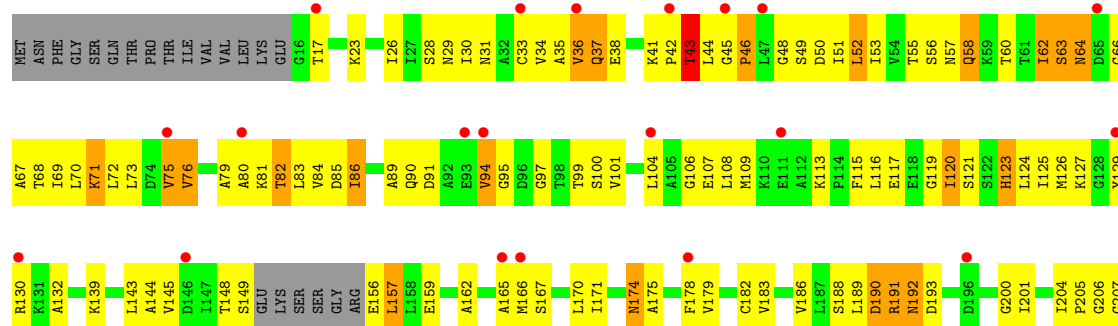
• Molecule 7: T-complex protein 1 subunit eta

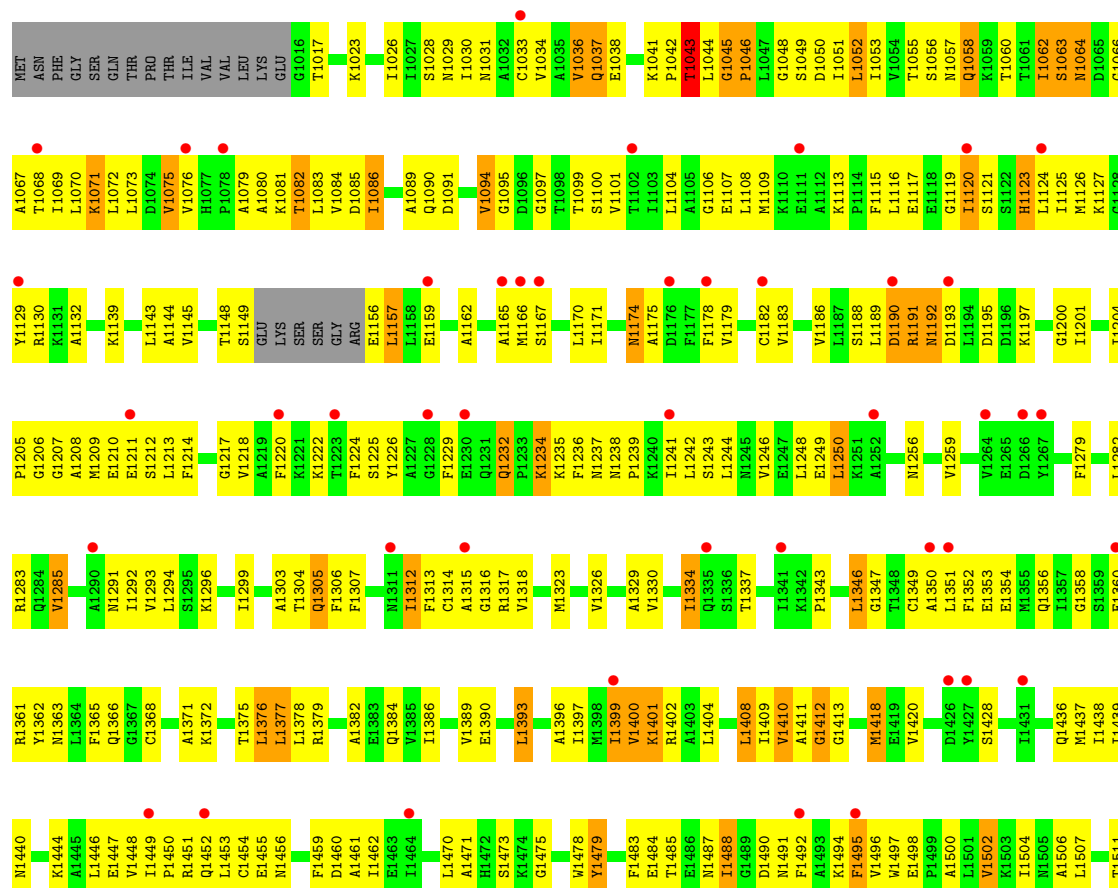
Chain G: 8% 41% 42% 9% 7%

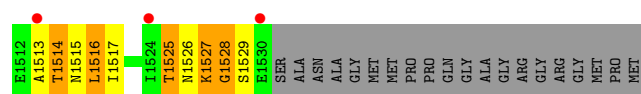


• Molecule 7: T-complex protein 1 subunit eta

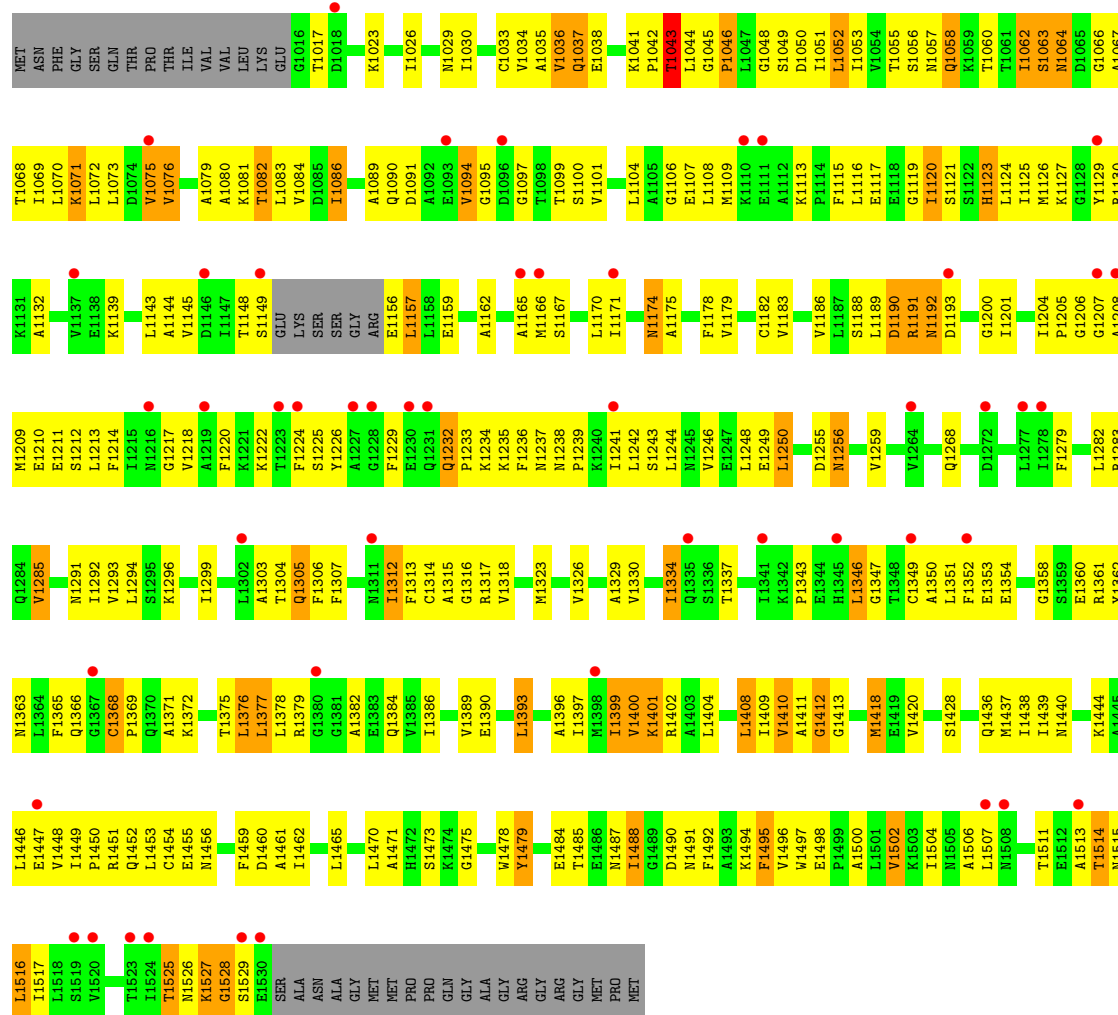
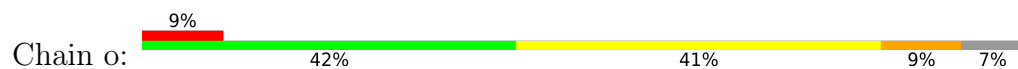
Chain O: 9% 43% 41% 9% 7%



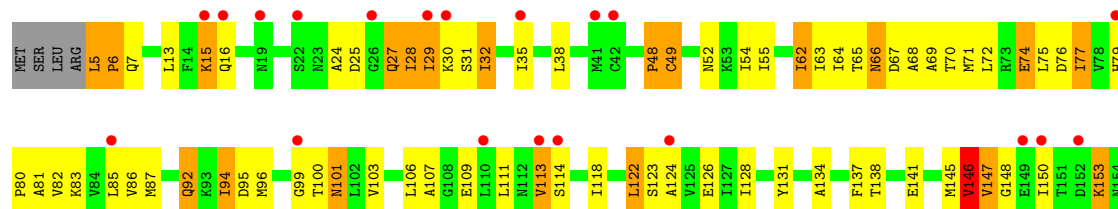
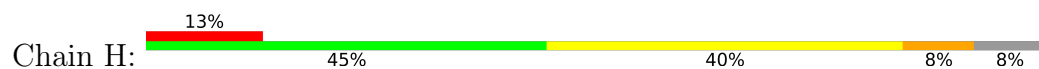




• Molecule 7: T-complex protein 1 subunit eta

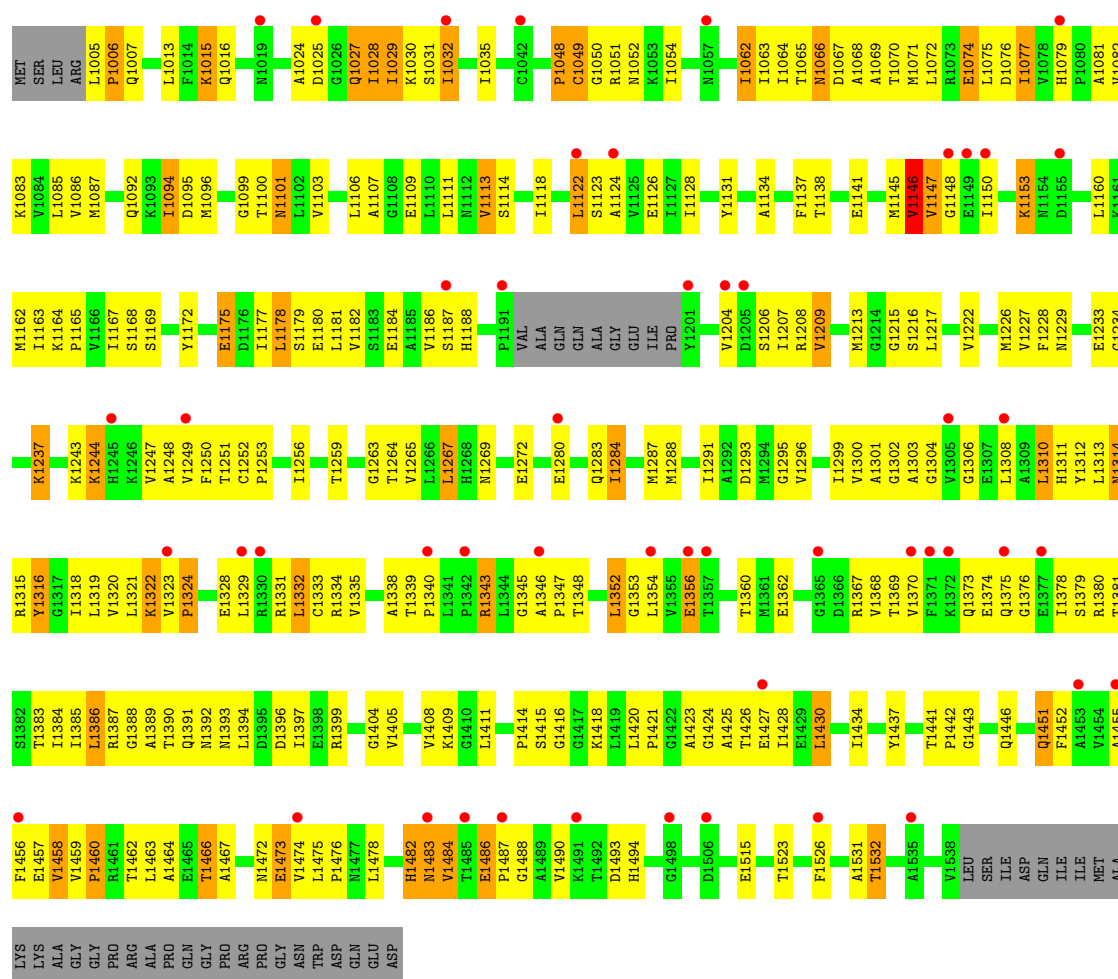


• Molecule 8: T-complex protein 1 subunit theta

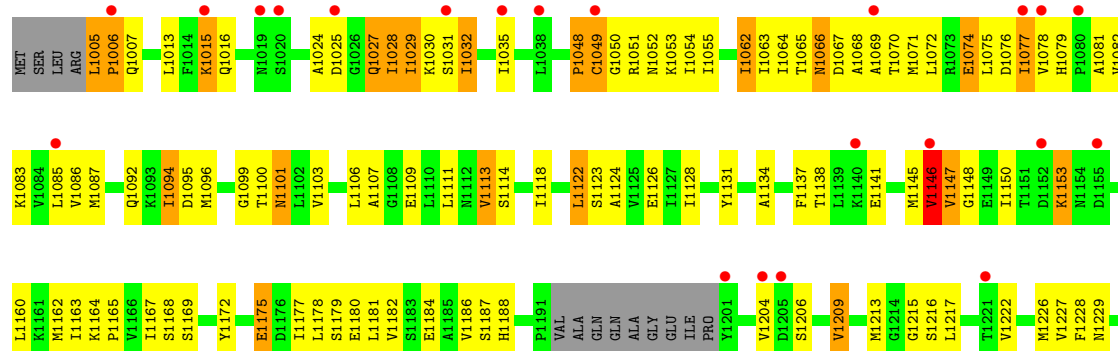


ASP GLN ILE MET LYS LYS ALA GLY PRO PRO ARG ALA PRO GLN GLY ASP ASP GLN GLU ASP

• Molecule 8: T-complex protein 1 subunit theta



• Molecule 8: T-complex protein 1 subunit theta



LYS	E1457	T1383	Y1312	E1233
LYS	V1458	I1384	L1313	G1294
ALA	V1459	I1385	M1314	
GLY	P1460	L1386	R1315	K1237
GLY	R1461	R1387	Y1316	K1243
PRO	T1462	G1388	G1317	K1244
ARG	L1463	A1389	I1318	
ALA	A1464	T1390	L1319	V1247
PRO	E1465	Q1391	V1320	A1248
GLN	T1466	N1392	L1321	V1249
GLY	A1467	N1393	K1322	F1250
PRO		L1394	V1323	T1251
ARG	E1473	D1395	P1324	C1252
PRO	V1474	D1396		
GLY	L1475	I1397	E1328	I1256
ASN	P1476	E1398	L1329	A1257
TRP	N1477	R1399	R1330	N1258
ASP	L1478		R1331	T1259
GLN	Y1479	G1404	L1332	
GLU		V1405	C1333	
ASP			R1334	
	H1482	V1408	V1335	
	N1483	K1409	A1338	G1283
	V1484	G1410	T1339	T1284
	T1485	L1411	P1340	V1285
	E1486			L1266
	P1487	P1414	R1343	L1267
	G1488	S1415	L1344	H1288
	A1489	G1416	G1345	N1289
	V1490	G1417	A1346	
	K1491	K1418	P1347	E1272
	T1492	L1419	T1348	
	D1493	L1420		S1277
	H1494	P1421		
		G1422	L1352	E1280
	K1497	A1423	G1353	Q1283
	E1507	G1424	L1354	I1284
	E1515	A1425	V1355	
	N1516	T1426	E1356	M1287
	M1520	E1427		M1288
		I1428	T1360	
		L1430	M1361	I1291
	T1523		E1362	A1292
		I1434		D1293
	F1526	Y1437	R1367	M1294
			V1368	G1295
	A1531		T1369	V1296
	T1532	T1441	V1370	
		P1442	F1371	I1299
	V1538	G1443	K1372	V1300
LEU			Q1373	A1301
SER		Q1446	E1374	G1302
ILE			Q1375	A1303
GLN			G1376	V1305
ASP		Q1451	E1377	G1306
GLN		F1452	I1378	E1307
ILE		A1453	S1379	L1308
ILE		V1454	A1380	A1309
MET		A1455	T1381	L1310
ALA		F1456	S1382	H1311

4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	159.10Å 162.54Å 268.10Å 85.23° 81.15° 61.17°	Depositor
Resolution (Å)	89.95 – 3.80 89.95 – 3.80	Depositor EDS
% Data completeness (in resolution range)	91.6 (89.95-3.80) 90.8 (89.95-3.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.08	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.18 (at 3.78Å)	Xtriage
Refinement program	PHENIX (phenix.refine)	Depositor
R, R_{free}	0.307 , 0.344 0.312 , 0.343	Depositor DCC
R_{free} test set	10483 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	112.3	Xtriage
Anisotropy	0.288	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 217.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	0.024 for -h,-h+k,-l	Xtriage
F_o, F_c correlation	0.86	EDS
Total number of atoms	111235	wwPDB-VP
Average B, all atoms (Å ²)	141.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.01% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: BEF, SO4, ADP

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	0.34	0/3515	0.86	8/4835 (0.2%)
1	I	0.34	0/3515	0.86	8/4835 (0.2%)
1	a	0.34	0/3515	0.86	8/4835 (0.2%)
1	i	0.34	0/3515	0.86	8/4835 (0.2%)
2	B	0.37	0/3480	0.88	5/4754 (0.1%)
2	J	0.38	0/3480	0.87	5/4754 (0.1%)
2	b	0.38	0/3481	0.88	5/4755 (0.1%)
2	j	0.38	0/3478	0.88	5/4751 (0.1%)
3	C	0.34	0/3421	0.85	7/4689 (0.1%)
3	K	0.34	0/3422	0.85	7/4690 (0.1%)
3	c	0.34	0/3424	0.85	7/4693 (0.1%)
3	k	0.34	0/3424	0.85	7/4693 (0.1%)
4	D	0.34	0/3421	0.85	7/4683 (0.1%)
4	L	0.34	0/3421	0.85	7/4683 (0.1%)
4	d	0.34	0/3421	0.85	7/4683 (0.1%)
4	l	0.34	0/3421	0.85	7/4683 (0.1%)
5	E	0.34	0/3466	0.88	12/4739 (0.3%)
5	M	0.34	0/3466	0.87	12/4739 (0.3%)
5	e	0.34	0/3466	0.87	12/4739 (0.3%)
5	m	0.34	0/3466	0.88	12/4739 (0.3%)
6	F	0.39	0/3663	0.95	16/5008 (0.3%)
6	N	0.39	0/3660	0.95	16/5004 (0.3%)
6	f	0.39	0/3665	0.95	16/5009 (0.3%)
6	n	0.39	0/3661	0.95	16/5005 (0.3%)
7	G	0.34	0/3342	0.88	8/4578 (0.2%)
7	O	0.34	0/3339	0.88	8/4574 (0.2%)
7	g	0.34	0/3339	0.88	8/4574 (0.2%)
7	o	0.34	0/3339	0.88	8/4574 (0.2%)
8	H	0.32	0/3522	0.81	4/4825 (0.1%)
8	P	0.32	0/3522	0.81	4/4825 (0.1%)
8	h	0.32	0/3519	0.80	2/4820 (0.0%)
8	p	0.32	0/3522	0.81	4/4825 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
All	All	0.35	0/111311	0.87	266/152428 (0.2%)

There are no bond length outliers.

All (266) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	375	LYS	N-CA-C	10.89	123.23	111.36
3	c	1375	LYS	N-CA-C	10.88	123.22	111.36
3	K	375	LYS	N-CA-C	10.87	123.20	111.36
3	k	1375	LYS	N-CA-C	10.84	123.17	111.36
7	G	76	VAL	N-CA-C	9.21	120.02	110.72
7	g	1076	VAL	N-CA-C	9.21	120.02	110.72
7	O	76	VAL	N-CA-C	9.18	119.99	110.72
7	o	1076	VAL	N-CA-C	9.17	119.98	110.72
5	m	1253	GLN	N-CA-C	9.07	120.93	111.14
5	E	253	GLN	N-CA-C	9.05	120.92	111.14
5	M	253	GLN	N-CA-C	9.05	120.91	111.14
5	e	1253	GLN	N-CA-C	9.01	120.87	111.14
4	D	350	VAL	CB-CA-C	8.77	120.41	110.41
4	d	1350	VAL	CB-CA-C	8.76	120.40	110.41
4	l	1350	VAL	CB-CA-C	8.76	120.40	110.41
4	L	350	VAL	CB-CA-C	8.75	120.38	110.41
8	p	1482	HIS	N-CA-C	-8.50	102.62	113.16
8	h	1482	HIS	N-CA-C	-8.46	102.67	113.16
8	H	482	HIS	N-CA-C	-8.45	102.68	113.16
8	P	482	HIS	N-CA-C	-8.45	102.69	113.16
2	j	1491	TYR	N-CA-C	8.03	120.04	111.28
2	b	1491	TYR	N-CA-C	8.02	120.03	111.28
2	B	491	TYR	N-CA-C	8.01	120.02	111.28
2	J	491	TYR	N-CA-C	8.01	120.01	111.28
4	L	350	VAL	N-CA-C	-7.99	93.36	107.18
4	d	1350	VAL	N-CA-C	-7.99	93.37	107.18
4	l	1350	VAL	N-CA-C	-7.98	93.37	107.18
4	D	350	VAL	N-CA-C	-7.96	93.41	107.18
7	g	1167	SER	N-CA-C	7.95	119.95	111.28
7	G	167	SER	N-CA-C	7.95	119.95	111.28
7	o	1167	SER	N-CA-C	7.92	119.91	111.28
7	O	167	SER	N-CA-C	7.92	119.91	111.28
7	o	1350	ALA	N-CA-C	7.76	119.74	111.28
7	O	350	ALA	N-CA-C	7.75	119.72	111.28
7	G	350	ALA	N-CA-C	7.74	119.71	111.28
7	g	1350	ALA	N-CA-C	7.71	119.69	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	60	LYS	N-CA-C	-7.66	102.93	111.28
6	f	1060	LYS	N-CA-C	-7.65	102.94	111.28
6	n	1060	LYS	N-CA-C	-7.64	102.95	111.28
6	F	60	LYS	N-CA-C	-7.63	102.96	111.28
6	f	1432	ASN	N-CA-C	-7.50	103.70	114.12
6	n	1432	ASN	N-CA-C	-7.47	103.73	114.12
6	F	432	ASN	N-CA-C	-7.47	103.74	114.12
6	N	432	ASN	N-CA-C	-7.46	103.75	114.12
1	I	121	HIS	CA-C-N	7.31	127.65	119.32
1	I	121	HIS	C-N-CA	7.31	127.65	119.32
1	A	121	HIS	CA-C-N	7.30	127.64	119.32
1	A	121	HIS	C-N-CA	7.30	127.64	119.32
1	i	1121	HIS	CA-C-N	7.29	127.63	119.32
1	i	1121	HIS	C-N-CA	7.29	127.63	119.32
1	a	1121	HIS	CA-C-N	7.29	127.63	119.32
1	a	1121	HIS	C-N-CA	7.29	127.63	119.32
6	F	275	LYS	O-C-N	-7.19	113.43	122.27
6	n	1275	LYS	O-C-N	-7.15	113.47	122.27
6	f	1275	LYS	O-C-N	-7.15	113.47	122.27
6	N	275	LYS	O-C-N	-7.14	113.49	122.27
6	F	469	VAL	N-CA-C	7.05	117.94	107.15
6	n	1469	VAL	N-CA-C	7.05	117.94	107.15
6	N	469	VAL	N-CA-C	7.04	117.92	107.15
6	f	1469	VAL	N-CA-C	7.03	117.91	107.15
8	h	1315	ARG	N-CA-C	7.02	118.93	111.28
8	P	315	ARG	N-CA-C	7.01	118.92	111.28
8	p	1315	ARG	N-CA-C	6.97	118.88	111.28
8	H	315	ARG	N-CA-C	6.97	118.87	111.28
3	C	168	SER	N-CA-C	6.87	118.77	111.28
3	k	1168	SER	N-CA-C	6.87	118.76	111.28
3	c	1168	SER	N-CA-C	6.86	118.76	111.28
3	K	168	SER	N-CA-C	6.83	118.73	111.28
4	d	1420	GLU	N-CA-C	6.78	118.46	111.14
4	l	1420	GLU	N-CA-C	6.78	118.46	111.14
4	L	420	GLU	N-CA-C	6.75	118.43	111.14
4	D	420	GLU	N-CA-C	6.71	118.39	111.14
3	c	1318	ARG	N-CA-C	-6.67	101.73	110.53
3	K	318	ARG	N-CA-C	-6.66	101.73	110.53
3	C	318	ARG	N-CA-C	-6.66	101.75	110.53
3	k	1318	ARG	N-CA-C	-6.65	101.75	110.53
5	m	1033	LYS	N-CA-C	6.62	118.49	111.28
5	E	266	GLY	N-CA-C	-6.61	103.62	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	e	1266	GLY	N-CA-C	-6.60	103.64	111.36
5	m	1266	GLY	N-CA-C	-6.60	103.64	111.36
5	e	1033	LYS	N-CA-C	6.59	118.47	111.28
3	K	39	LEU	N-CA-C	6.59	119.78	110.23
1	I	437	ALA	CB-CA-C	6.58	122.92	109.55
3	C	39	LEU	N-CA-C	6.58	119.77	110.23
5	E	33	LYS	N-CA-C	6.58	118.45	111.28
5	M	266	GLY	N-CA-C	-6.58	103.66	111.36
1	a	1093	GLU	CA-C-N	6.57	133.80	121.97
1	a	1093	GLU	C-N-CA	6.57	133.80	121.97
1	i	1437	ALA	CB-CA-C	6.57	122.89	109.55
5	M	33	LYS	N-CA-C	6.57	118.44	111.28
1	A	437	ALA	CB-CA-C	6.57	122.89	109.55
3	c	1039	LEU	N-CA-C	6.57	119.75	110.23
1	a	1437	ALA	CB-CA-C	6.57	122.88	109.55
1	i	1093	GLU	CA-C-N	6.56	133.78	121.97
1	i	1093	GLU	C-N-CA	6.56	133.78	121.97
7	g	1462	ILE	N-CA-C	6.56	117.31	110.62
3	k	1039	LEU	N-CA-C	6.55	119.72	110.23
7	O	462	ILE	N-CA-C	6.55	117.30	110.62
7	G	462	ILE	N-CA-C	6.54	117.29	110.62
1	I	93	GLU	CA-C-N	6.54	133.73	121.97
1	I	93	GLU	C-N-CA	6.54	133.73	121.97
1	A	93	GLU	CA-C-N	6.53	133.72	121.97
1	A	93	GLU	C-N-CA	6.53	133.72	121.97
7	o	1462	ILE	N-CA-C	6.51	117.26	110.62
6	n	1036	ASN	N-CA-C	6.48	118.34	111.28
6	F	36	ASN	N-CA-C	6.47	118.33	111.28
6	N	36	ASN	N-CA-C	6.46	118.32	111.28
6	f	1036	ASN	N-CA-C	6.44	118.30	111.28
1	I	187	VAL	N-CA-C	6.31	118.23	112.43
1	a	1187	VAL	N-CA-C	6.30	118.22	112.43
1	i	1187	VAL	N-CA-C	6.29	118.22	112.43
1	A	187	VAL	N-CA-C	6.27	118.20	112.43
5	E	219	VAL	N-CA-C	-6.27	101.46	109.30
5	e	1219	VAL	N-CA-C	-6.23	101.51	109.30
5	m	1219	VAL	N-CA-C	-6.23	101.51	109.30
2	B	423	ASP	N-CA-C	-6.21	103.09	111.54
7	G	192	ASN	N-CA-C	-6.21	104.51	111.28
7	G	372	LYS	N-CA-C	6.21	118.05	111.28
5	M	219	VAL	N-CA-C	-6.21	101.54	109.30
2	J	423	ASP	N-CA-C	-6.21	103.10	111.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	b	1423	ASP	N-CA-C	-6.20	103.10	111.54
2	j	1423	ASP	N-CA-C	-6.20	103.11	111.54
6	F	154	ALA	CA-C-N	6.20	128.88	120.38
6	F	154	ALA	C-N-CA	6.20	128.88	120.38
6	N	154	ALA	CA-C-N	6.19	128.86	120.38
6	N	154	ALA	C-N-CA	6.19	128.86	120.38
7	O	372	LYS	N-CA-C	6.19	118.02	111.28
6	n	1154	ALA	CA-C-N	6.18	128.85	120.38
6	n	1154	ALA	C-N-CA	6.18	128.85	120.38
7	o	1192	ASN	N-CA-C	-6.17	104.56	111.28
7	g	1192	ASN	N-CA-C	-6.16	104.56	111.28
7	O	192	ASN	N-CA-C	-6.15	104.57	111.28
6	f	1154	ALA	CA-C-N	6.14	128.79	120.38
6	f	1154	ALA	C-N-CA	6.14	128.79	120.38
7	o	1372	LYS	N-CA-C	6.13	118.04	111.36
7	g	1372	LYS	N-CA-C	6.10	118.01	111.36
6	f	1119	THR	N-CA-C	-6.07	104.57	111.07
6	n	1119	THR	N-CA-C	-6.07	104.58	111.07
6	F	119	THR	N-CA-C	-6.07	104.58	111.07
5	e	1324	GLN	N-CA-C	6.06	117.97	111.36
5	m	1324	GLN	N-CA-C	6.06	117.97	111.36
6	N	119	THR	N-CA-C	-6.05	104.60	111.07
5	M	324	GLN	N-CA-C	6.04	117.95	111.36
5	E	324	GLN	N-CA-C	6.04	117.94	111.36
3	C	266	GLU	N-CA-C	6.00	117.90	111.36
3	c	1266	GLU	N-CA-C	5.95	117.84	111.36
3	k	1266	GLU	N-CA-C	5.94	117.84	111.36
3	K	266	GLU	N-CA-C	5.92	117.81	111.36
6	N	15	ARG	CB-CA-C	-5.90	109.78	116.63
6	F	15	ARG	CB-CA-C	-5.88	109.80	116.63
4	L	499	GLN	CA-C-N	5.88	125.89	119.89
4	L	499	GLN	C-N-CA	5.88	125.89	119.89
2	j	1245	ILE	N-CA-C	-5.88	104.62	110.62
6	n	1015	ARG	CB-CA-C	-5.88	109.81	116.63
2	b	1245	ILE	N-CA-C	-5.87	104.63	110.62
6	f	1015	ARG	CB-CA-C	-5.85	109.84	116.63
2	B	245	ILE	N-CA-C	-5.84	104.67	110.62
4	d	1204	ILE	N-CA-C	-5.83	104.67	110.62
6	N	275	LYS	CA-C-N	-5.83	112.47	120.28
6	N	275	LYS	C-N-CA	-5.83	112.47	120.28
4	l	1499	GLN	CA-C-N	5.83	125.84	119.89
4	l	1499	GLN	C-N-CA	5.83	125.84	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	l	1204	ILE	N-CA-C	-5.83	104.67	110.62
4	D	499	GLN	CA-C-N	5.83	125.83	119.89
4	D	499	GLN	C-N-CA	5.83	125.83	119.89
4	L	204	ILE	N-CA-C	-5.82	104.68	110.62
6	f	1275	LYS	CA-C-N	-5.82	112.48	120.28
6	f	1275	LYS	C-N-CA	-5.82	112.48	120.28
5	m	1034	ASP	N-CA-C	5.82	117.62	111.28
6	F	275	LYS	CA-C-N	-5.81	112.49	120.28
6	F	275	LYS	C-N-CA	-5.81	112.49	120.28
6	n	1275	LYS	CA-C-N	-5.81	112.49	120.28
6	n	1275	LYS	C-N-CA	-5.81	112.49	120.28
2	J	245	ILE	N-CA-C	-5.81	104.69	110.62
5	M	34	ASP	N-CA-C	5.80	117.60	111.28
5	E	34	ASP	N-CA-C	5.79	117.60	111.28
8	H	5	LEU	CA-C-N	5.79	127.08	119.84
8	H	5	LEU	C-N-CA	5.79	127.08	119.84
4	l	1520	ARG	N-CA-C	5.79	117.59	111.28
4	d	1499	GLN	CA-C-N	5.79	125.79	119.89
4	d	1499	GLN	C-N-CA	5.79	125.79	119.89
8	p	1005	LEU	CA-C-N	5.79	127.07	119.84
8	p	1005	LEU	C-N-CA	5.79	127.07	119.84
5	e	1034	ASP	N-CA-C	5.78	117.58	111.28
4	d	1520	ARG	N-CA-C	5.77	117.57	111.28
8	P	5	LEU	CA-C-N	5.76	127.04	119.84
8	P	5	LEU	C-N-CA	5.76	127.04	119.84
4	L	520	ARG	N-CA-C	5.75	117.55	111.28
4	D	204	ILE	N-CA-C	-5.75	104.76	110.62
6	N	202	LEU	CB-CA-C	-5.74	109.94	116.54
4	D	520	ARG	N-CA-C	5.74	117.53	111.28
5	e	1325	TRP	N-CA-C	5.73	117.56	108.79
6	n	1137	LYS	CB-CA-C	-5.73	109.98	116.63
5	M	325	TRP	N-CA-C	5.72	117.55	108.79
1	A	93	GLU	N-CA-C	5.72	117.52	111.28
5	m	1325	TRP	N-CA-C	5.72	117.54	108.79
6	f	1202	LEU	CB-CA-C	-5.71	109.97	116.54
6	F	137	LYS	CB-CA-C	-5.71	110.00	116.63
6	n	1202	LEU	CB-CA-C	-5.71	109.97	116.54
6	f	1137	LYS	CB-CA-C	-5.70	110.02	116.63
6	F	202	LEU	CB-CA-C	-5.70	109.98	116.54
6	N	137	LYS	CB-CA-C	-5.70	110.02	116.63
1	I	93	GLU	N-CA-C	5.69	117.48	111.28
5	E	325	TRP	N-CA-C	5.69	117.50	108.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	i	1093	GLU	N-CA-C	5.68	117.47	111.28
2	J	426	LYS	N-CA-C	-5.67	105.19	111.71
1	a	1093	GLU	N-CA-C	5.67	117.47	111.28
2	B	426	LYS	N-CA-C	-5.66	105.20	111.71
2	b	1426	LYS	N-CA-C	-5.63	105.23	111.71
2	j	1426	LYS	N-CA-C	-5.61	105.25	111.71
3	k	1013	GLU	N-CA-C	5.58	118.32	110.23
3	C	13	GLU	N-CA-C	5.57	118.30	110.23
3	K	13	GLU	N-CA-C	5.56	118.30	110.23
3	c	1013	GLU	N-CA-C	5.54	118.26	110.23
7	G	43	THR	N-CA-C	5.53	119.13	112.38
7	g	1043	THR	N-CA-C	5.50	119.09	112.38
6	N	161	LYS	CB-CA-C	-5.50	110.25	116.63
6	F	161	LYS	CB-CA-C	-5.49	110.26	116.63
6	n	1161	LYS	CB-CA-C	-5.49	110.26	116.63
7	O	43	THR	N-CA-C	5.49	119.08	112.38
7	o	1043	THR	N-CA-C	5.48	119.06	112.38
6	N	156	SER	N-CA-C	-5.46	105.33	111.28
6	f	1161	LYS	CB-CA-C	-5.46	110.30	116.63
6	f	1156	SER	N-CA-C	-5.44	105.35	111.28
6	F	156	SER	N-CA-C	-5.44	105.35	111.28
6	n	1156	SER	N-CA-C	-5.44	105.35	111.28
3	k	1462	GLY	N-CA-C	-5.43	105.00	111.36
7	G	94	VAL	N-CA-C	-5.42	107.34	111.62
3	K	462	GLY	N-CA-C	-5.42	105.02	111.36
3	c	1462	GLY	N-CA-C	-5.42	105.02	111.36
3	C	462	GLY	N-CA-C	-5.41	105.03	111.36
7	o	1094	VAL	N-CA-C	-5.39	107.36	111.62
7	O	94	VAL	N-CA-C	-5.38	107.37	111.62
7	g	1094	VAL	N-CA-C	-5.38	107.37	111.62
2	B	57	THR	N-CA-C	5.31	117.18	110.33
2	J	57	THR	N-CA-C	5.30	117.17	110.33
2	b	1057	THR	N-CA-C	5.29	117.16	110.33
2	j	1057	THR	N-CA-C	5.29	117.15	110.33
5	m	1265	ASP	CB-CA-C	-5.28	110.47	116.54
5	m	1166	ASP	CA-C-N	5.27	131.19	121.70
5	m	1166	ASP	C-N-CA	5.27	131.19	121.70
5	M	166	ASP	CA-C-N	5.27	131.19	121.70
5	M	166	ASP	C-N-CA	5.27	131.19	121.70
5	E	166	ASP	CA-C-N	5.27	131.18	121.70
5	E	166	ASP	C-N-CA	5.27	131.18	121.70
5	e	1265	ASP	CB-CA-C	-5.27	110.48	116.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	e	1166	ASP	CA-C-N	5.26	131.16	121.70
5	e	1166	ASP	C-N-CA	5.26	131.16	121.70
5	M	265	ASP	CB-CA-C	-5.24	110.51	116.54
5	E	265	ASP	CB-CA-C	-5.23	110.52	116.54
5	m	1047	LYS	N-CA-C	-5.15	106.94	113.43
5	E	47	LYS	N-CA-C	-5.14	106.95	113.43
5	M	47	LYS	N-CA-C	-5.13	106.97	113.43
5	e	1047	LYS	N-CA-C	-5.12	106.97	113.43
5	E	223	LEU	N-CA-C	-5.12	107.08	113.38
5	m	1223	LEU	N-CA-C	-5.11	107.09	113.38
5	e	1223	LEU	N-CA-C	-5.10	107.11	113.38
6	f	1435	GLY	N-CA-C	-5.09	106.62	112.73
6	N	435	GLY	N-CA-C	-5.08	106.64	112.73
1	A	442	SER	CB-CA-C	-5.07	110.33	117.23
6	n	1435	GLY	N-CA-C	-5.07	106.64	112.73
5	M	223	LEU	N-CA-C	-5.07	107.15	113.38
6	F	435	GLY	N-CA-C	-5.07	106.65	112.73
1	a	1442	SER	CB-CA-C	-5.07	110.34	117.23
1	i	1442	SER	CB-CA-C	-5.06	110.35	117.23
1	I	442	SER	CB-CA-C	-5.03	110.39	117.23

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3492	0	3026	308	0
1	I	3492	0	3026	301	0
1	a	3492	0	3026	304	0
1	i	3492	0	3026	314	0
2	B	3459	0	3146	495	0
2	J	3459	0	3146	505	0
2	b	3460	0	3148	506	0
2	j	3457	0	3139	496	0
3	C	3392	0	3019	313	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	K	3393	0	3022	292	0
3	c	3395	0	3029	316	0
3	k	3395	0	3029	331	0
4	D	3398	0	3010	360	0
4	L	3398	0	3010	339	0
4	d	3398	0	3010	315	0
4	l	3398	0	3010	333	0
5	E	3437	0	2943	292	0
5	M	3437	0	2943	296	0
5	e	3437	0	2943	295	0
5	m	3437	0	2943	308	0
6	F	3631	0	3330	659	0
6	N	3628	0	3321	653	0
6	f	3633	0	3333	676	0
6	n	3629	0	3322	670	0
7	G	3317	0	2920	395	0
7	O	3314	0	2911	387	0
7	g	3314	0	2911	381	0
7	o	3314	0	2911	383	0
8	H	3487	0	3109	314	0
8	P	3487	0	3109	291	0
8	h	3485	0	3103	286	0
8	p	3487	0	3109	290	0
9	A	27	0	11	3	0
9	B	27	0	11	8	0
9	C	27	0	12	7	0
9	D	27	0	11	8	0
9	E	27	0	11	2	0
9	F	27	0	11	6	0
9	G	27	0	11	5	0
9	H	27	0	12	3	0
9	J	27	0	11	6	0
9	L	27	0	11	7	0
9	M	27	0	11	6	0
9	N	27	0	11	6	0
9	P	27	0	12	5	0
9	a	27	0	11	2	0
9	b	27	0	11	3	0
9	e	27	0	12	3	0
9	f	27	0	11	6	0
9	g	27	0	11	8	0
9	h	27	0	12	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	k	27	0	11	9	0
9	l	27	0	11	8	0
9	m	27	0	11	4	0
9	n	27	0	11	4	0
9	p	27	0	12	3	0
10	A	4	0	0	0	0
10	B	4	0	0	0	0
10	C	4	0	0	3	0
10	D	4	0	0	0	0
10	E	4	0	0	0	0
10	F	4	0	0	2	0
10	G	4	0	0	0	0
10	H	4	0	0	0	0
10	J	4	0	0	0	0
10	L	4	0	0	1	0
10	M	4	0	0	0	0
10	N	4	0	0	3	0
10	P	4	0	0	0	0
10	a	4	0	0	0	0
10	b	4	0	0	0	0
10	e	4	0	0	0	0
10	f	4	0	0	0	0
10	g	4	0	0	0	0
10	h	4	0	0	1	0
10	k	4	0	0	0	0
10	l	4	0	0	0	0
10	m	4	0	0	0	0
10	n	4	0	0	0	0
10	p	4	0	0	0	0
11	I	5	0	0	0	0
11	K	5	0	0	0	0
11	O	5	0	0	0	0
11	c	5	0	0	0	0
11	d	5	0	0	0	0
11	i	5	0	0	0	0
11	j	5	0	0	1	0
11	o	5	0	0	0	0
12	B	1	0	0	0	0
12	E	1	0	0	0	0
12	G	1	0	0	0	0
12	M	1	0	0	0	0
12	e	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	g	1	0	0	0	0
12	m	1	0	0	0	0
All	All	111235	0	98253	11582	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 55.

All (11582) 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)
3:k:1301:VAL:CG2	3:k:1305:ALA:HB1	1.28	1.61
3:c:1301:VAL:CG2	3:c:1305:ALA:HB1	1.28	1.60
3:k:1301:VAL:HG22	3:k:1305:ALA:CB	1.25	1.60
3:c:1301:VAL:HG22	3:c:1305:ALA:CB	1.25	1.56
2:b:1348:LEU:HG	6:f:1085:GLU:C	1.31	1.54
2:b:1004:GLN:HA	2:b:1005:ILE:CG1	1.37	1.53
6:f:1439:LYS:HE3	5:m:1034:ASP:CB	1.06	1.53
2:B:4:GLN:HA	2:B:5:ILE:CG1	1.37	1.53
6:f:1439:LYS:CE	5:m:1034:ASP:CB	1.87	1.51
8:h:1006:PRO:CB	4:l:1071:LEU:CB	1.87	1.51
2:j:1004:GLN:HA	2:j:1005:ILE:CG1	1.37	1.51
6:f:1151:LEU:CD1	6:f:1175:THR:CG2	1.89	1.49
2:J:4:GLN:HA	2:J:5:ILE:CG1	1.37	1.48
6:n:1036:ASN:HB3	6:n:1057:LYS:NZ	1.28	1.48
6:n:1151:LEU:CD1	6:n:1175:THR:CG2	1.90	1.47
6:f:1434:LEU:HD22	6:f:1441:LYS:CB	1.45	1.47
6:N:36:ASN:HB3	6:N:57:LYS:NZ	1.28	1.46
6:F:151:LEU:CD1	6:F:175:THR:CG2	1.90	1.46
6:N:151:LEU:CD1	6:N:175:THR:CG2	1.90	1.46
6:N:434:LEU:HD22	6:N:441:LYS:CB	1.45	1.46
6:n:1434:LEU:HD22	6:n:1441:LYS:CB	1.45	1.45
3:c:1301:VAL:CG2	3:c:1305:ALA:CB	1.80	1.45
8:H:6:PRO:HG3	4:L:71:LEU:CB	1.43	1.45
3:k:1301:VAL:CG2	3:k:1305:ALA:CB	1.80	1.44
6:F:541:LEU:CB	6:F:542:LYS:HA	1.31	1.44
6:F:434:LEU:HD22	6:F:441:LYS:CB	1.45	1.43
6:F:151:LEU:HD13	6:F:175:THR:CG2	0.95	1.43
2:b:1348:LEU:CD2	6:f:1086:ILE:HA	1.46	1.43
6:F:36:ASN:HB3	6:F:57:LYS:NZ	1.28	1.43
6:n:1151:LEU:HD13	6:n:1175:THR:CG2	0.95	1.43
6:n:1541:LEU:CB	6:n:1542:LYS:HA	1.31	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1151:LEU:HD13	6:f:1175:THR:CG2	0.95	1.42
7:o:1189:LEU:HA	7:o:1190:ASP:CB	1.23	1.41
7:G:189:LEU:HA	7:G:190:ASP:CB	1.23	1.41
6:N:151:LEU:HD13	6:N:175:THR:CG2	0.95	1.41
6:N:541:LEU:CB	6:N:542:LYS:HA	1.30	1.41
7:g:1189:LEU:HA	7:g:1190:ASP:CB	1.23	1.40
6:f:1036:ASN:HB3	6:f:1057:LYS:NZ	1.28	1.40
6:f:1352:GLY:CA	6:f:1369:GLU:O	1.70	1.40
6:F:352:GLY:CA	6:F:369:GLU:O	1.70	1.39
6:N:352:GLY:CA	6:N:369:GLU:O	1.70	1.39
6:n:1352:GLY:CA	6:n:1369:GLU:O	1.70	1.39
4:d:1071:LEU:CB	8:p:1006:PRO:HG3	1.51	1.39
7:O:189:LEU:HA	7:O:190:ASP:CB	1.23	1.39
6:f:1541:LEU:CB	6:f:1542:LYS:HA	1.31	1.38
4:D:71:LEU:CB	8:P:6:PRO:HG3	1.51	1.38
6:F:541:LEU:HB2	6:F:542:LYS:CA	1.51	1.37
8:h:1006:PRO:CB	8:h:1007:GLN:HA	1.38	1.36
6:F:117:ILE:CD1	5:M:34:ASP:HA	1.51	1.35
2:b:1004:GLN:CA	2:b:1005:ILE:HG12	1.59	1.33
6:n:1541:LEU:HB2	6:n:1542:LYS:CA	1.51	1.33
7:O:516:LEU:HD22	7:O:516:LEU:C	1.54	1.33
2:J:4:GLN:CA	2:J:5:ILE:HG12	1.59	1.33
6:f:1541:LEU:HB2	6:f:1542:LYS:CA	1.51	1.33
2:B:4:GLN:CA	2:B:5:ILE:HG12	1.59	1.32
6:n:1352:GLY:HA3	6:n:1369:GLU:C	1.54	1.32
2:j:1004:GLN:CA	2:j:1005:ILE:HG12	1.59	1.31
6:N:541:LEU:HB2	6:N:542:LYS:CA	1.51	1.31
5:e:1034:ASP:HA	6:n:1117:ILE:CD1	1.60	1.31
6:N:151:LEU:CD1	6:N:175:THR:HG21	1.54	1.30
6:n:1151:LEU:CD1	6:n:1175:THR:HG21	1.54	1.30
6:F:352:GLY:HA3	6:F:369:GLU:C	1.54	1.30
6:N:352:GLY:HA3	6:N:369:GLU:C	1.54	1.29
1:a:1250:ASN:HB2	1:a:1300:LYS:CB	1.62	1.29
7:o:1516:LEU:C	7:o:1516:LEU:HD22	1.54	1.29
6:F:151:LEU:CD1	6:F:175:THR:HG21	1.54	1.29
8:H:6:PRO:CG	4:L:71:LEU:CB	2.10	1.29
6:f:1352:GLY:HA3	6:f:1369:GLU:C	1.55	1.29
1:i:1250:ASN:HB2	1:i:1300:LYS:CB	1.62	1.29
6:f:1151:LEU:CD1	6:f:1175:THR:HG21	1.54	1.28
1:A:184:LEU:HD21	1:A:198:TYR:CD2	1.67	1.27
1:I:184:LEU:HD21	1:I:198:TYR:CD2	1.67	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:1184:LEU:HD21	1:i:1198:TYR:CD2	1.67	1.27
1:I:250:ASN:HB2	1:I:300:LYS:CB	1.62	1.27
2:J:361:ALA:N	2:J:362:GLY:HA2	1.31	1.27
1:a:1184:LEU:HD21	1:a:1198:TYR:CD2	1.67	1.27
1:A:250:ASN:HB2	1:A:300:LYS:CB	1.62	1.26
6:F:36:ASN:CB	6:F:57:LYS:HZ3	1.48	1.26
7:G:516:LEU:HD22	7:G:516:LEU:C	1.54	1.26
7:g:1516:LEU:C	7:g:1516:LEU:HD22	1.54	1.26
7:O:235:LYS:HA	7:O:352:PHE:O	1.35	1.25
2:B:361:ALA:N	2:B:362:GLY:HA2	1.31	1.25
7:G:235:LYS:HA	7:G:352:PHE:O	1.35	1.25
6:N:352:GLY:O	6:N:367:VAL:CG1	1.85	1.25
4:d:1071:LEU:CB	8:p:1006:PRO:CG	2.12	1.25
6:n:1094:VAL:O	6:n:1098:VAL:CG2	1.85	1.25
2:B:463:ILE:O	2:B:467:ILE:CG1	1.85	1.24
6:N:94:VAL:O	6:N:98:VAL:CG2	1.85	1.24
6:f:1094:VAL:O	6:f:1098:VAL:CG2	1.85	1.24
6:f:1352:GLY:O	6:f:1367:VAL:CG1	1.85	1.24
4:D:521:ILE:HA	7:G:50:ASP:O	1.37	1.24
2:j:1463:ILE:O	2:j:1467:ILE:CG1	1.85	1.24
2:b:1463:ILE:O	2:b:1467:ILE:CG1	1.85	1.24
6:F:352:GLY:O	6:F:367:VAL:CG1	1.85	1.23
6:n:1352:GLY:O	6:n:1367:VAL:CG1	1.85	1.23
7:o:1189:LEU:CA	7:o:1190:ASP:CB	2.14	1.23
2:j:1361:ALA:N	2:j:1362:GLY:HA2	1.31	1.23
6:F:151:LEU:CD1	6:F:175:THR:HG23	1.60	1.23
6:F:94:VAL:O	6:F:98:VAL:CG2	1.85	1.23
2:J:463:ILE:O	2:J:467:ILE:CG1	1.85	1.23
7:O:189:LEU:CA	7:O:190:ASP:CB	2.14	1.23
2:J:463:ILE:O	2:J:467:ILE:HG12	1.05	1.22
2:b:1361:ALA:N	2:b:1362:GLY:HA2	1.31	1.22
2:B:463:ILE:O	2:B:467:ILE:HG12	1.06	1.22
6:F:90:GLY:O	6:F:94:VAL:HG23	1.40	1.22
6:n:1090:GLY:O	6:n:1094:VAL:HG23	1.40	1.22
2:b:1348:LEU:HG	6:f:1085:GLU:O	1.37	1.22
2:j:1463:ILE:O	2:j:1467:ILE:HG12	1.06	1.22
1:I:184:LEU:HD21	1:I:198:TYR:CG	1.75	1.21
6:f:1151:LEU:CD1	6:f:1175:THR:HG23	1.60	1.21
7:g:1189:LEU:CA	7:g:1190:ASP:CB	2.14	1.21
7:G:189:LEU:CA	7:G:190:ASP:CB	2.14	1.21
4:L:521:ILE:HA	7:O:50:ASP:O	1.37	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l:1521:ILE:HA	7:o:1050:ASP:O	1.37	1.20
2:b:1348:LEU:CG	6:f:1085:GLU:O	1.88	1.20
1:A:184:LEU:HD21	1:A:198:TYR:CG	1.75	1.20
6:F:478:ASP:O	6:F:482:ASP:CB	1.90	1.20
1:a:1184:LEU:HD21	1:a:1198:TYR:CG	1.75	1.20
6:f:1478:ASP:O	6:f:1482:ASP:CB	1.90	1.20
7:o:1235:LYS:HA	7:o:1352:PHE:O	1.35	1.20
7:g:1235:LYS:HA	7:g:1352:PHE:O	1.35	1.20
6:N:478:ASP:O	6:N:482:ASP:CB	1.90	1.19
7:o:1189:LEU:CA	7:o:1190:ASP:HB3	1.71	1.19
4:D:71:LEU:CB	8:P:6:PRO:CG	2.20	1.19
4:D:521:ILE:HD11	7:G:62:ILE:HD11	1.20	1.19
2:b:1463:ILE:O	2:b:1467:ILE:HG12	1.06	1.19
1:i:1184:LEU:HD21	1:i:1198:TYR:CG	1.75	1.19
7:G:189:LEU:CA	7:G:190:ASP:HB3	1.71	1.19
7:g:1189:LEU:CA	7:g:1190:ASP:HB3	1.71	1.19
6:f:1090:GLY:O	6:f:1094:VAL:HG23	1.40	1.19
6:N:90:GLY:O	6:N:94:VAL:HG23	1.40	1.18
6:n:1151:LEU:CD1	6:n:1175:THR:HG23	1.60	1.18
6:n:1478:ASP:O	6:n:1482:ASP:CB	1.90	1.18
3:c:1250:LEU:HG	3:c:1301:VAL:CG2	1.72	1.18
6:N:151:LEU:CD1	6:N:175:THR:HG23	1.60	1.18
7:O:189:LEU:CA	7:O:190:ASP:HB3	1.71	1.18
3:k:1250:LEU:HG	3:k:1301:VAL:CG2	1.72	1.18
4:L:524:ILE:HA	7:O:52:LEU:O	1.41	1.17
4:L:524:ILE:HG12	7:O:52:LEU:CB	1.72	1.17
3:C:457:ILE:HD13	3:C:467:LEU:HD13	1.26	1.17
8:p:1054:ILE:HG13	8:p:1064:ILE:HG12	1.21	1.17
2:J:4:GLN:HA	2:J:5:ILE:CB	1.73	1.16
6:N:36:ASN:CB	6:N:57:LYS:HZ3	1.59	1.16
6:n:1036:ASN:CB	6:n:1057:LYS:HZ3	1.58	1.16
3:k:1457:ILE:HD13	3:k:1467:LEU:HD13	1.26	1.16
4:l:1520:ARG:O	7:o:1049:SER:HB3	1.46	1.16
6:f:1501:PRO:HB3	6:f:1506:ILE:HB	1.27	1.15
6:n:1094:VAL:O	6:n:1098:VAL:HG23	0.98	1.15
8:H:54:ILE:HG13	8:H:64:ILE:HG12	1.21	1.15
6:n:1501:PRO:HB3	6:n:1506:ILE:HB	1.27	1.15
6:f:1094:VAL:O	6:f:1098:VAL:HG23	0.98	1.15
6:f:1478:ASP:O	6:f:1482:ASP:HB2	1.47	1.15
6:n:1434:LEU:HD23	6:n:1434:LEU:H	0.98	1.15
2:B:4:GLN:HA	2:B:5:ILE:CB	1.73	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:273:THR:HG22	5:E:364:PRO:HA	1.29	1.15
6:F:94:VAL:O	6:F:98:VAL:HG23	0.98	1.14
1:I:228:VAL:HG22	1:I:363:GLN:HE22	1.03	1.14
8:h:1006:PRO:CB	8:h:1007:GLN:CA	2.23	1.14
8:h:1054:ILE:HG13	8:h:1064:ILE:HG12	1.21	1.14
4:D:524:ILE:HG12	7:G:52:LEU:CB	1.77	1.14
4:L:524:ILE:CG1	7:O:52:LEU:HB3	1.77	1.14
7:O:191:ARG:HA	7:O:191:ARG:HE	1.12	1.14
2:b:1200:GLY:HA3	2:b:1369:LEU:HD23	1.30	1.14
5:m:1273:THR:HG22	5:m:1364:PRO:HA	1.29	1.14
4:l:1524:ILE:HG12	7:o:1052:LEU:CB	1.77	1.13
6:n:1166:LEU:O	6:n:1167:THR:HG23	1.48	1.13
6:F:434:LEU:CD2	6:F:441:LYS:CB	2.26	1.13
6:N:94:VAL:O	6:N:98:VAL:HG23	0.98	1.13
6:N:501:PRO:HB3	6:N:506:ILE:HB	1.27	1.13
3:C:230:VAL:HG11	3:C:302:SER:OG	1.49	1.13
3:K:230:VAL:HG11	3:K:302:SER:OG	1.49	1.13
1:a:1090:GLN:HG3	1:a:1101:VAL:HG21	1.27	1.13
2:b:1004:GLN:HA	2:b:1005:ILE:CB	1.73	1.13
6:f:1166:LEU:O	6:f:1167:THR:HG23	1.48	1.13
3:k:1230:VAL:HG11	3:k:1302:SER:OG	1.49	1.13
5:E:34:ASP:HA	6:N:117:ILE:CD1	1.78	1.12
6:N:434:LEU:CD2	6:N:441:LYS:CB	2.27	1.12
7:G:94:VAL:HG21	7:G:502:VAL:HG22	1.17	1.12
1:a:1228:VAL:HG22	1:a:1363:GLN:HE22	1.03	1.12
6:f:1434:LEU:CD2	6:f:1441:LYS:CB	2.27	1.12
6:n:1434:LEU:CD2	6:n:1441:LYS:CB	2.26	1.12
2:j:1357:SER:HB3	2:j:1360:LYS:CB	1.79	1.12
1:A:228:VAL:HG22	1:A:363:GLN:HE22	1.03	1.12
4:D:520:ARG:O	7:G:49:SER:HB3	1.47	1.12
2:j:1029:VAL:O	2:j:1033:VAL:HG22	1.50	1.12
2:B:200:GLY:HA3	2:B:369:LEU:HD23	1.30	1.12
6:F:166:LEU:O	6:F:167:THR:HG23	1.48	1.12
6:N:478:ASP:O	6:N:482:ASP:HB2	1.47	1.12
7:O:94:VAL:HG21	7:O:502:VAL:HG22	1.17	1.11
2:b:1348:LEU:CD1	6:f:1085:GLU:O	1.97	1.11
6:f:1036:ASN:CB	6:f:1057:LYS:HZ3	1.61	1.11
6:f:1434:LEU:HD23	6:f:1434:LEU:H	0.98	1.11
6:N:166:LEU:O	6:N:167:THR:HG23	1.48	1.11
8:P:206:SER:HB2	8:P:381:THR:HG22	1.32	1.11
6:f:1434:LEU:HD23	6:f:1434:LEU:N	1.63	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:273:THR:HG22	5:M:364:PRO:HA	1.29	1.11
6:N:434:LEU:HD23	6:N:434:LEU:H	0.98	1.11
4:D:521:ILE:CD1	7:G:62:ILE:HD11	1.79	1.11
6:F:434:LEU:HD23	6:F:434:LEU:H	0.98	1.11
2:J:357:SER:HB3	2:J:360:LYS:CB	1.79	1.11
4:L:521:ILE:HD11	7:O:62:ILE:HD11	1.28	1.11
8:P:54:ILE:HG13	8:P:64:ILE:HG12	1.21	1.11
2:b:1357:SER:HB3	2:b:1360:LYS:CB	1.79	1.11
7:g:1094:VAL:HG21	7:g:1502:VAL:HG22	1.17	1.11
4:l:1521:ILE:CD1	7:o:1062:ILE:HD11	1.80	1.11
6:F:274:LEU:HD21	6:F:308:VAL:HG11	1.31	1.11
6:N:274:LEU:HD21	6:N:308:VAL:HG11	1.31	1.11
2:b:1029:VAL:O	2:b:1033:VAL:HG22	1.50	1.11
5:e:1273:THR:CG2	5:e:1364:PRO:HA	1.81	1.11
3:k:1301:VAL:HG22	3:k:1305:ALA:HB3	1.12	1.11
6:F:53:ILE:HD12	6:F:53:ILE:O	1.49	1.10
3:c:1250:LEU:HG	3:c:1301:VAL:HG23	1.23	1.10
6:f:1083:GLN:HG3	6:f:1094:VAL:HG21	1.32	1.10
7:g:1191:ARG:HA	7:g:1191:ARG:HE	1.12	1.10
3:k:1250:LEU:HG	3:k:1301:VAL:HG23	1.23	1.10
8:p:1206:SER:HB2	8:p:1381:THR:HG22	1.32	1.10
2:B:357:SER:HB3	2:B:360:LYS:CB	1.79	1.10
2:B:422:ILE:HB	2:B:427:SER:HB2	1.28	1.10
3:c:1230:VAL:HG11	3:c:1302:SER:OG	1.49	1.10
1:i:1090:GLN:HG3	1:i:1101:VAL:HG21	1.27	1.10
1:i:1494:ARG:CB	1:i:1495:ARG:CA	2.30	1.10
6:n:1083:GLN:HG3	6:n:1094:VAL:HG21	1.32	1.10
6:F:478:ASP:O	6:F:482:ASP:HB2	1.47	1.10
2:J:200:GLY:HA3	2:J:369:LEU:HD23	1.30	1.10
1:a:1494:ARG:CB	1:a:1495:ARG:CA	2.29	1.10
3:c:1457:ILE:HD13	3:c:1467:LEU:HD13	1.26	1.10
6:f:1053:ILE:HD12	6:f:1053:ILE:O	1.49	1.10
6:n:1478:ASP:O	6:n:1482:ASP:HB2	1.47	1.10
7:o:1189:LEU:HA	7:o:1190:ASP:HB2	1.26	1.10
1:A:494:ARG:CB	1:A:495:ARG:CA	2.29	1.10
6:N:143:LEU:HD13	6:N:145:ASN:H	0.94	1.10
6:f:1439:LYS:H	6:f:1439:LYS:HD2	1.15	1.10
6:n:1053:ILE:HD12	6:n:1053:ILE:O	1.49	1.10
2:J:29:VAL:O	2:J:33:VAL:HG22	1.50	1.10
2:b:1348:LEU:CG	6:f:1085:GLU:C	2.25	1.10
4:d:1524:ILE:HA	7:g:1052:LEU:O	1.49	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:1009:ARG:CB	1:i:1010:SER:CA	2.30	1.10
5:m:1273:THR:CG2	5:m:1364:PRO:HA	1.81	1.10
2:B:29:VAL:O	2:B:33:VAL:HG22	1.50	1.09
1:I:494:ARG:CB	1:I:495:ARG:CA	2.30	1.09
6:N:53:ILE:HD12	6:N:53:ILE:O	1.49	1.09
2:b:1422:ILE:HB	2:b:1427:SER:HB2	1.28	1.09
8:h:1206:SER:HB2	8:h:1381:THR:HG22	1.32	1.09
7:o:1094:VAL:HG21	7:o:1502:VAL:HG22	1.17	1.09
1:A:9:ARG:CB	1:A:10:SER:CA	2.30	1.09
6:F:83:GLN:HG3	6:F:94:VAL:HG21	1.32	1.09
6:N:3:LEU:N	6:N:4:GLN:HB2	1.68	1.09
6:f:1002:SER:C	6:f:1004:GLN:HB2	1.77	1.09
4:l:1521:ILE:HD11	7:o:1062:ILE:HD11	1.20	1.09
1:I:9:ARG:CB	1:I:10:SER:CA	2.30	1.09
2:j:1004:GLN:HA	2:j:1005:ILE:CB	1.73	1.09
7:G:191:ARG:HA	7:G:191:ARG:HE	1.12	1.09
3:K:457:ILE:HD13	3:K:467:LEU:HD13	1.26	1.09
5:m:1186:THR:HG21	5:m:1528:VAL:O	1.51	1.09
2:J:422:ILE:HB	2:J:427:SER:HB2	1.28	1.09
5:M:273:THR:CG2	5:M:364:PRO:HA	1.81	1.09
4:d:1521:ILE:HA	7:g:1050:ASP:O	1.53	1.09
6:f:1274:LEU:HD21	6:f:1308:VAL:HG11	1.31	1.09
2:j:1242:LYS:NZ	2:j:1247:GLY:O	1.86	1.09
4:l:1521:ILE:HD11	7:o:1062:ILE:CD1	1.83	1.09
7:O:189:LEU:HA	7:O:190:ASP:HB2	1.26	1.08
4:d:1072:HIS:HB2	4:d:1075:ALA:HB3	1.35	1.08
5:e:1273:THR:HG22	5:e:1364:PRO:HA	1.29	1.08
5:E:186:THR:HG21	5:E:528:VAL:O	1.51	1.08
6:F:3:LEU:N	6:F:4:GLN:HB2	1.68	1.08
4:L:521:ILE:HD11	7:O:62:ILE:CD1	1.82	1.08
4:L:521:ILE:CD1	7:O:62:ILE:HD11	1.82	1.08
2:b:1242:LYS:NZ	2:b:1247:GLY:O	1.86	1.08
6:f:1117:ILE:HD11	5:m:1034:ASP:HA	1.15	1.08
6:n:1002:SER:C	6:n:1004:GLN:HB2	1.77	1.08
6:n:1274:LEU:HD21	6:n:1308:VAL:HG11	1.31	1.08
5:E:273:THR:CG2	5:E:364:PRO:HA	1.81	1.08
1:a:1009:ARG:CB	1:a:1010:SER:CA	2.30	1.08
6:n:1352:GLY:HA3	6:n:1369:GLU:O	0.90	1.08
3:C:264:GLU:O	3:C:265:LYS:HG3	1.54	1.08
5:M:186:THR:HG21	5:M:528:VAL:O	1.51	1.08
6:N:352:GLY:HA3	6:N:369:GLU:O	0.90	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g:1189:LEU:HA	7:g:1190:ASP:HB2	1.26	1.08
3:k:1264:GLU:O	3:k:1265:LYS:HG3	1.54	1.08
6:n:1003:LEU:N	6:n:1004:GLN:HB2	1.67	1.08
1:A:90:GLN:HG3	1:A:101:VAL:HG21	1.27	1.08
4:D:521:ILE:HD11	7:G:62:ILE:CD1	1.82	1.08
8:H:206:SER:HB2	8:H:381:THR:HG22	1.32	1.08
1:I:90:GLN:HG3	1:I:101:VAL:HG21	1.27	1.08
1:a:1009:ARG:CB	1:a:1010:SER:HA	1.84	1.08
1:i:1228:VAL:HG22	1:i:1363:GLN:HE22	1.03	1.08
4:D:524:ILE:CG1	7:G:52:LEU:HB3	1.84	1.07
5:E:34:ASP:HA	6:N:117:ILE:HD11	1.11	1.07
6:F:2:SER:C	6:F:4:GLN:HB2	1.77	1.07
4:L:250:ASN:HA	7:O:259:VAL:HG12	1.35	1.07
3:c:1301:VAL:HG22	3:c:1305:ALA:HB3	1.12	1.07
6:f:1003:LEU:N	6:f:1004:GLN:HB2	1.67	1.07
6:n:1489:VAL:O	6:n:1490:GLY:O	1.72	1.07
7:o:1191:ARG:HA	7:o:1191:ARG:HE	1.12	1.07
6:F:143:LEU:HD13	6:F:145:ASN:H	0.93	1.07
6:F:352:GLY:HA3	6:F:369:GLU:O	0.90	1.07
6:F:539:SER:HB3	6:F:542:LYS:HD2	1.37	1.07
8:H:237:LYS:HB3	8:H:314:ASN:CB	1.84	1.07
2:J:242:LYS:NZ	2:J:247:GLY:O	1.86	1.07
5:e:1186:THR:HG21	5:e:1528:VAL:O	1.51	1.07
7:o:1188:SER:O	7:o:1190:ASP:HB2	1.54	1.07
6:N:2:SER:C	6:N:4:GLN:HB2	1.77	1.07
4:d:1524:ILE:HG12	7:g:1052:LEU:CB	1.84	1.07
2:j:1422:ILE:HB	2:j:1427:SER:HB2	1.28	1.07
6:n:1430:ASN:O	6:n:1433:LYS:HB2	1.55	1.07
4:D:72:HIS:HB2	4:D:75:ALA:HB3	1.35	1.07
6:F:501:PRO:HB3	6:F:506:ILE:HB	1.27	1.07
7:G:189:LEU:HA	7:G:190:ASP:HB2	1.26	1.07
6:N:539:SER:HB3	6:N:542:LYS:HD2	1.37	1.07
8:P:237:LYS:HB3	8:P:314:ASN:CB	1.85	1.07
6:f:1352:GLY:HA3	6:f:1369:GLU:O	0.90	1.07
2:j:1200:GLY:HA3	2:j:1369:LEU:HD23	1.30	1.07
2:b:1514:ILE:HD12	3:c:1047:MET:HB3	1.37	1.06
3:c:1264:GLU:O	3:c:1265:LYS:HG3	1.54	1.06
4:l:1524:ILE:CG1	7:o:1052:LEU:HB3	1.85	1.06
6:n:1539:SER:HB3	6:n:1542:LYS:HD2	1.37	1.06
1:A:93:GLU:CB	1:A:94:ILE:HD12	1.86	1.06
2:B:5:ILE:O	3:C:71:ALA:N	1.87	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:188:SER:O	7:G:190:ASP:HB2	1.54	1.06
8:H:482:HIS:O	8:H:484:VAL:N	1.89	1.06
6:f:1133:LEU:HD12	6:f:1422:LEU:HD21	1.37	1.06
6:n:1434:LEU:HD23	6:n:1434:LEU:N	1.62	1.06
2:B:242:LYS:NZ	2:B:247:GLY:O	1.86	1.06
1:a:1093:GLU:CB	1:a:1094:ILE:HD12	1.86	1.06
6:f:1539:SER:HB3	6:f:1542:LYS:HD2	1.37	1.06
8:h:1237:LYS:HB3	8:h:1314:ASN:CB	1.85	1.06
8:h:1482:HIS:O	8:h:1484:VAL:N	1.89	1.06
1:i:1009:ARG:CB	1:i:1010:SER:HA	1.84	1.06
6:F:489:VAL:O	6:F:490:GLY:O	1.72	1.06
6:N:83:GLN:HG3	6:N:94:VAL:HG21	1.32	1.06
8:p:1482:HIS:O	8:p:1484:VAL:N	1.89	1.06
1:I:93:GLU:CB	1:I:94:ILE:HD12	1.85	1.06
5:e:1034:ASP:HA	6:n:1117:ILE:HD11	1.06	1.06
2:B:513:ASN:O	2:B:514:ILE:HD13	1.56	1.05
6:N:489:VAL:O	6:N:490:GLY:O	1.72	1.05
6:f:1143:LEU:HD13	6:f:1145:ASN:H	0.93	1.05
1:i:1093:GLU:CB	1:i:1094:ILE:HD12	1.85	1.05
1:A:9:ARG:CB	1:A:10:SER:HA	1.84	1.05
6:N:430:ASN:HA	6:N:433:LYS:HG2	1.05	1.05
6:f:1117:ILE:CD1	5:m:1034:ASP:HA	1.85	1.05
8:h:1243:LYS:O	8:h:1244:LYS:HG2	1.57	1.05
8:p:1237:LYS:HB3	8:p:1314:ASN:HB2	1.39	1.05
7:O:188:SER:O	7:O:190:ASP:HB2	1.54	1.05
8:P:482:HIS:O	8:P:484:VAL:N	1.89	1.05
6:f:1430:ASN:HA	6:f:1433:LYS:HG2	1.05	1.05
6:f:1430:ASN:HA	6:f:1433:LYS:CG	1.86	1.05
6:f:1489:VAL:O	6:f:1490:GLY:O	1.72	1.05
7:g:1188:SER:O	7:g:1190:ASP:HB2	1.54	1.05
1:A:517:VAL:O	1:A:518:LEU:HG	1.56	1.05
3:C:298:GLU:C	3:C:319:ARG:CB	2.30	1.05
6:F:133:LEU:HD12	6:F:422:LEU:HD21	1.37	1.05
2:b:1513:ASN:O	2:b:1514:ILE:HD13	1.56	1.05
1:i:1494:ARG:CB	1:i:1495:ARG:HA	1.87	1.05
1:i:1517:VAL:O	1:i:1518:LEU:HG	1.56	1.05
7:o:1226:TYR:CD1	7:o:1229:PHE:O	2.10	1.05
6:F:430:ASN:HA	6:F:433:LYS:HG2	1.05	1.05
1:I:9:ARG:CB	1:I:10:SER:HA	1.83	1.05
3:K:298:GLU:C	3:K:319:ARG:CB	2.30	1.05
1:a:1494:ARG:CB	1:a:1495:ARG:HA	1.86	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1517:VAL:O	1:a:1518:LEU:HG	1.57	1.05
6:f:1430:ASN:O	6:f:1433:LYS:HB2	1.55	1.05
7:g:1226:TYR:CD1	7:g:1229:PHE:O	2.10	1.05
6:n:1005:LEU:HA	6:n:1006:LEU:CB	1.86	1.05
6:F:434:LEU:HD23	6:F:434:LEU:N	1.62	1.04
8:H:243:LYS:O	8:H:244:LYS:HG2	1.57	1.04
1:I:494:ARG:CB	1:I:495:ARG:HA	1.87	1.04
6:n:1430:ASN:HA	6:n:1433:LYS:CG	1.86	1.04
8:p:1237:LYS:HB3	8:p:1314:ASN:CB	1.85	1.04
2:B:72:PRO:CB	3:C:47:MET:HE1	1.85	1.04
6:F:430:ASN:HA	6:F:433:LYS:CG	1.86	1.04
8:P:237:LYS:HB3	8:P:314:ASN:HB2	1.39	1.04
3:c:1298:GLU:C	3:c:1319:ARG:CB	2.30	1.04
2:j:1513:ASN:O	2:j:1514:ILE:HD13	1.56	1.04
3:k:1301:VAL:HG21	3:k:1305:ALA:HB1	1.07	1.04
7:G:226:TYR:CD1	7:G:229:PHE:O	2.10	1.04
1:I:517:VAL:O	1:I:518:LEU:HG	1.56	1.04
2:J:513:ASN:O	2:J:514:ILE:HD13	1.56	1.04
3:K:264:GLU:O	3:K:265:LYS:HG3	1.54	1.04
4:L:520:ARG:O	7:O:49:SER:HB3	1.57	1.04
4:l:1072:HIS:HB2	4:l:1075:ALA:HB3	1.35	1.04
6:n:1430:ASN:HA	6:n:1433:LYS:HG2	1.05	1.04
8:p:1243:LYS:O	8:p:1244:LYS:HG2	1.57	1.04
8:H:237:LYS:HB3	8:H:314:ASN:HB2	1.39	1.04
6:N:430:ASN:HA	6:N:433:LYS:CG	1.86	1.04
2:j:1514:ILE:HD12	3:k:1047:MET:HB3	1.36	1.04
1:I:9:ARG:CB	1:I:10:SER:C	2.31	1.04
5:M:401:THR:O	5:M:402:LYS:HE2	1.58	1.04
7:O:516:LEU:C	7:O:516:LEU:CD2	2.30	1.04
6:f:1352:GLY:O	6:f:1367:VAL:HG13	1.57	1.04
8:h:1237:LYS:HB3	8:h:1314:ASN:HB2	1.39	1.04
6:N:5:LEU:HA	6:N:6:LEU:CB	1.86	1.03
6:N:430:ASN:O	6:N:433:LYS:HB2	1.55	1.03
8:P:243:LYS:O	8:P:244:LYS:HG2	1.57	1.03
6:F:5:LEU:HA	6:F:6:LEU:CB	1.86	1.03
3:K:302:SER:O	3:K:303:ASP:HB2	1.59	1.03
5:M:184:ALA:O	5:M:188:LEU:N	1.91	1.03
1:a:1009:ARG:CB	1:a:1010:SER:C	2.31	1.03
4:d:1524:ILE:CG1	7:g:1052:LEU:HB3	1.89	1.03
6:f:1005:LEU:HA	6:f:1006:LEU:CB	1.86	1.03
1:A:494:ARG:CB	1:A:495:ARG:HA	1.86	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:524:ILE:HA	7:G:52:LEU:O	1.56	1.03
2:j:1263:LYS:NZ	3:k:1266:GLU:HB3	1.72	1.03
3:k:1298:GLU:C	3:k:1319:ARG:CB	2.30	1.03
2:B:361:ALA:N	2:B:362:GLY:CA	2.22	1.03
6:F:430:ASN:O	6:F:433:LYS:HB2	1.55	1.03
4:L:72:HIS:HB2	4:L:75:ALA:HB3	1.35	1.03
6:N:434:LEU:HD23	6:N:434:LEU:N	1.62	1.03
1:i:1009:ARG:CB	1:i:1010:SER:C	2.31	1.03
6:n:1133:LEU:HD12	6:n:1422:LEU:HD21	1.37	1.03
1:A:9:ARG:CB	1:A:10:SER:C	2.31	1.03
2:B:142:ASN:HB2	2:B:143:SER:HA	1.41	1.03
6:F:540:THR:C	6:F:541:LEU:HD22	1.84	1.03
7:O:226:TYR:CD1	7:O:229:PHE:O	2.10	1.03
2:b:1348:LEU:CD2	6:f:1086:ILE:CA	2.35	1.03
7:g:1516:LEU:C	7:g:1516:LEU:CD2	2.30	1.03
5:m:1401:THR:O	5:m:1402:LYS:HE2	1.58	1.03
2:B:72:PRO:HB3	3:C:47:MET:HE1	1.37	1.02
5:E:401:THR:O	5:E:402:LYS:HE2	1.58	1.02
6:n:1143:LEU:HD13	6:n:1145:ASN:H	0.93	1.02
6:N:540:THR:C	6:N:541:LEU:HD22	1.84	1.02
3:c:1301:VAL:HG21	3:c:1305:ALA:HB1	1.07	1.02
5:e:1184:ALA:O	5:e:1188:LEU:N	1.91	1.02
1:i:1228:VAL:HG22	1:i:1363:GLN:NE2	1.75	1.02
3:k:1302:SER:O	3:k:1303:ASP:HB2	1.59	1.02
6:n:1352:GLY:O	6:n:1367:VAL:HG13	1.57	1.02
6:n:1540:THR:C	6:n:1541:LEU:HD22	1.84	1.02
1:a:1228:VAL:HG22	1:a:1363:GLN:NE2	1.75	1.02
2:j:1142:ASN:HB2	2:j:1143:SER:HA	1.41	1.02
5:E:350:GLU:O	5:E:352:GLU:N	1.92	1.02
1:I:228:VAL:HG22	1:I:363:GLN:NE2	1.75	1.02
5:M:350:GLU:O	5:M:352:GLU:N	1.92	1.02
6:N:133:LEU:HD12	6:N:422:LEU:HD21	1.37	1.02
6:F:158:LEU:HD12	6:F:158:LEU:O	1.60	1.02
4:d:1254:VAL:HG22	8:h:1265:VAL:HA	1.39	1.02
5:e:1401:THR:O	5:e:1402:LYS:HE2	1.58	1.02
2:j:1361:ALA:N	2:j:1362:GLY:CA	2.22	1.02
2:J:361:ALA:N	2:J:362:GLY:CA	2.22	1.01
6:N:352:GLY:O	6:N:367:VAL:HG13	1.57	1.01
7:g:1042:PRO:O	7:g:1048:GLY:HA2	1.59	1.01
4:l:1524:ILE:HA	7:o:1052:LEU:O	1.57	1.01
5:m:1350:GLU:O	5:m:1352:GLU:N	1.93	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:228:VAL:HG22	1:A:363:GLN:NE2	1.75	1.01
5:E:184:ALA:O	5:E:188:LEU:N	1.91	1.01
6:f:1540:THR:C	6:f:1541:LEU:HD22	1.84	1.01
5:m:1184:ALA:O	5:m:1188:LEU:N	1.91	1.01
6:F:352:GLY:O	6:F:367:VAL:HG13	1.57	1.01
7:G:42:PRO:O	7:G:48:GLY:HA2	1.59	1.01
2:b:1021:SER:HG	1:i:1008:SER:N	1.59	1.01
5:e:1350:GLU:O	5:e:1352:GLU:N	1.93	1.01
2:j:1004:GLN:CA	2:j:1005:ILE:HG23	1.91	1.01
6:F:167:THR:HB	6:F:169:VAL:N	1.76	1.00
6:N:158:LEU:HD12	6:N:158:LEU:O	1.60	1.00
6:N:167:THR:HB	6:N:169:VAL:N	1.76	1.00
3:c:1301:VAL:CG2	3:c:1305:ALA:HB2	1.91	1.00
2:b:1348:LEU:HD23	6:f:1086:ILE:CA	1.91	1.00
6:n:1158:LEU:HD12	6:n:1158:LEU:O	1.60	1.00
1:A:494:ARG:CB	1:A:495:ARG:C	2.35	1.00
3:C:234:MET:HB3	3:C:310:LEU:HD22	1.44	1.00
2:J:4:GLN:CA	2:J:5:ILE:HG23	1.91	1.00
4:d:1134:ILE:HD11	4:d:1424:ARG:HD3	1.41	1.00
4:l:1134:ILE:HD11	4:l:1424:ARG:HD3	1.41	1.00
4:L:134:ILE:HD11	4:L:424:ARG:HD3	1.41	1.00
2:b:1361:ALA:N	2:b:1362:GLY:CA	2.22	1.00
6:f:1540:THR:O	6:f:1542:LYS:HG2	1.62	1.00
6:n:1143:LEU:HD13	6:n:1145:ASN:N	1.76	1.00
7:o:1042:PRO:O	7:o:1048:GLY:HA2	1.59	1.00
2:b:1008:ASP:HB3	2:b:1009:GLN:HA	1.43	1.00
2:j:1008:ASP:HB3	2:j:1009:GLN:HA	1.44	1.00
4:d:1524:ILE:HG12	7:g:1052:LEU:HB3	1.03	1.00
6:n:1434:LEU:O	6:n:1438:GLY:N	1.95	1.00
6:N:143:LEU:HD13	6:N:145:ASN:N	1.76	1.00
7:O:42:PRO:O	7:O:48:GLY:HA2	1.59	0.99
6:f:1167:THR:HB	6:f:1169:VAL:N	1.76	0.99
1:I:494:ARG:CB	1:I:495:ARG:C	2.35	0.99
6:n:1540:THR:O	6:n:1542:LYS:HG2	1.62	0.99
6:F:434:LEU:HA	6:F:441:LYS:CB	1.93	0.99
2:b:1142:ASN:HB2	2:b:1143:SER:HA	1.41	0.99
6:f:1158:LEU:HD12	6:f:1158:LEU:O	1.60	0.99
6:n:1434:LEU:HA	6:n:1441:LYS:CB	1.93	0.99
2:B:4:GLN:CA	2:B:5:ILE:HG23	1.91	0.99
1:i:1494:ARG:CB	1:i:1495:ARG:C	2.35	0.99
3:k:1234:MET:HB3	3:k:1310:LEU:HD22	1.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:143:LEU:HD13	6:F:145:ASN:N	1.75	0.99
1:a:1494:ARG:CB	1:a:1495:ARG:C	2.34	0.99
6:f:1016:ASP:HA	6:f:1019:LEU:HD12	1.44	0.99
6:F:434:LEU:O	6:F:438:GLY:N	1.95	0.99
6:F:465:ASP:HA	6:F:466:PRO:C	1.88	0.99
6:N:434:LEU:HA	6:N:441:LYS:CB	1.92	0.99
6:F:540:THR:O	6:F:542:LYS:HG2	1.62	0.99
6:N:434:LEU:O	6:N:438:GLY:N	1.95	0.99
7:O:516:LEU:HD13	7:O:517:ILE:HG12	1.44	0.99
6:n:1167:THR:HB	6:n:1169:VAL:N	1.76	0.99
3:C:302:SER:O	3:C:303:ASP:HB2	1.59	0.99
6:N:465:ASP:HA	6:N:466:PRO:C	1.88	0.99
6:f:1036:ASN:CB	6:f:1057:LYS:NZ	2.24	0.99
4:l:1070:ILE:O	4:l:1070:ILE:HG12	1.63	0.99
2:J:142:ASN:HB2	2:J:143:SER:HA	1.41	0.99
7:g:1516:LEU:HD13	7:g:1517:ILE:HG12	1.44	0.99
2:B:490:SER:O	2:B:493:LEU:HG	1.63	0.99
6:F:16:ASP:HA	6:F:19:LEU:HD12	1.44	0.99
2:b:1004:GLN:CA	2:b:1005:ILE:HG23	1.91	0.99
6:f:1465:ASP:HA	6:f:1466:PRO:C	1.88	0.99
7:G:516:LEU:HD13	7:G:517:ILE:HG12	1.44	0.98
2:J:490:SER:O	2:J:493:LEU:HG	1.63	0.98
4:d:1521:ILE:HD11	7:g:1062:ILE:HD11	1.44	0.98
6:f:1143:LEU:HD13	6:f:1145:ASN:N	1.76	0.98
8:h:1124:ALA:O	8:h:1128:ILE:HG13	1.63	0.98
7:o:1094:VAL:CG2	7:o:1502:VAL:HG22	1.93	0.98
8:p:1124:ALA:O	8:p:1128:ILE:HG13	1.63	0.98
6:n:1043:LEU:HD23	6:n:1057:LYS:HB2	1.44	0.98
4:D:70:ILE:O	4:D:70:ILE:HG12	1.63	0.98
3:K:265:LYS:NZ	3:K:268:ASP:HB3	1.79	0.98
6:f:1541:LEU:CB	6:f:1542:LYS:CA	2.22	0.98
7:G:516:LEU:C	7:G:516:LEU:CD2	2.30	0.98
8:H:423:ALA:HA	9:H:601:ADP:H2'	1.45	0.98
4:d:1250:ASN:HA	7:g:1259:VAL:HG12	1.43	0.98
6:N:540:THR:O	6:N:542:LYS:HG2	1.62	0.98
8:H:124:ALA:O	8:H:128:ILE:HG13	1.63	0.98
6:n:1465:ASP:HA	6:n:1466:PRO:C	1.88	0.98
4:D:134:ILE:HD11	4:D:424:ARG:HD3	1.41	0.98
3:c:1302:SER:O	3:c:1303:ASP:HB2	1.59	0.98
4:d:1070:ILE:O	4:d:1070:ILE:HG12	1.63	0.98
6:f:1434:LEU:HA	6:f:1441:LYS:CB	1.93	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l:1523:ASP:O	7:o:1051:ILE:HG23	1.64	0.98
2:J:8:ASP:HB3	2:J:9:GLN:HA	1.43	0.98
5:m:1088:ALA:HB2	5:m:1119:THR:HB	1.46	0.98
7:o:1516:LEU:C	7:o:1516:LEU:CD2	2.30	0.98
7:g:1094:VAL:CG2	7:g:1502:VAL:HG22	1.93	0.98
7:g:1516:LEU:CD1	7:g:1517:ILE:HG12	1.94	0.98
2:B:8:ASP:HB3	2:B:9:GLN:HA	1.43	0.97
2:J:260:GLN:HA	2:J:263:LYS:HD2	1.46	0.97
6:N:53:ILE:HD12	6:N:53:ILE:C	1.89	0.97
3:c:1265:LYS:NZ	3:c:1268:ASP:HB3	1.79	0.97
6:f:1053:ILE:HD12	6:f:1053:ILE:C	1.89	0.97
2:j:1202:LYS:O	2:j:1370:ARG:HA	1.64	0.97
3:k:1265:LYS:NZ	3:k:1268:ASP:HB3	1.79	0.97
3:k:1301:VAL:CG2	3:k:1305:ALA:HB2	1.91	0.97
6:n:1036:ASN:CB	6:n:1057:LYS:NZ	2.24	0.97
3:C:265:LYS:NZ	3:C:268:ASP:HB3	1.79	0.97
4:L:524:ILE:CA	7:O:52:LEU:O	2.12	0.97
7:O:516:LEU:CD1	7:O:517:ILE:HG12	1.94	0.97
2:b:1202:LYS:O	2:b:1370:ARG:HA	1.64	0.97
2:b:1260:GLN:HA	2:b:1263:LYS:HD2	1.46	0.97
2:b:1490:SER:O	2:b:1493:LEU:HG	1.63	0.97
6:f:1434:LEU:O	6:f:1438:GLY:N	1.95	0.97
6:N:3:LEU:HD12	6:N:5:LEU:HD23	1.46	0.97
4:L:70:ILE:O	4:L:70:ILE:HG12	1.63	0.97
2:j:1490:SER:O	2:j:1493:LEU:HG	1.63	0.97
6:n:1016:ASP:HA	6:n:1019:LEU:HD12	1.44	0.97
2:B:260:GLN:HA	2:B:263:LYS:HD2	1.46	0.97
7:G:94:VAL:CG2	7:G:502:VAL:HG22	1.93	0.97
6:f:1434:LEU:CA	6:f:1441:LYS:CB	2.43	0.97
2:j:1260:GLN:HA	2:j:1263:LYS:HD2	1.46	0.97
4:l:1250:ASN:HA	7:o:1259:VAL:HG12	1.46	0.97
6:F:43:LEU:HD23	6:F:57:LYS:HB2	1.44	0.97
6:N:16:ASP:HA	6:N:19:LEU:HD12	1.44	0.97
6:F:117:ILE:HD11	5:M:34:ASP:CA	1.93	0.97
6:F:434:LEU:CA	6:F:441:LYS:CB	2.43	0.97
3:K:234:MET:HB3	3:K:310:LEU:HD22	1.44	0.97
3:c:1298:GLU:O	3:c:1319:ARG:CB	2.13	0.97
3:K:298:GLU:O	3:K:319:ARG:CB	2.13	0.97
3:k:1298:GLU:O	3:k:1319:ARG:CB	2.13	0.97
6:n:1053:ILE:HD12	6:n:1053:ILE:C	1.89	0.96
6:n:1434:LEU:CA	6:n:1441:LYS:CB	2.43	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:184:LEU:CD2	1:A:198:TYR:CD2	2.49	0.96
2:J:202:LYS:O	2:J:370:ARG:HA	1.64	0.96
2:j:1004:GLN:CA	2:j:1005:ILE:CG1	2.30	0.96
2:B:202:LYS:O	2:B:370:ARG:HA	1.64	0.96
2:J:4:GLN:CA	2:J:5:ILE:CG1	2.30	0.96
5:M:88:ALA:HB2	5:M:119:THR:HB	1.46	0.96
7:O:94:VAL:CG2	7:O:502:VAL:HG22	1.93	0.96
3:c:1234:MET:HB3	3:c:1310:LEU:HD22	1.44	0.96
5:E:88:ALA:HB2	5:E:119:THR:HB	1.46	0.96
6:F:53:ILE:HD12	6:F:53:ILE:C	1.89	0.96
6:N:434:LEU:CA	6:N:441:LYS:CB	2.43	0.96
4:D:254:VAL:HG22	8:H:265:VAL:HA	1.47	0.96
7:G:43:THR:HG22	7:G:64:ASN:HB3	1.45	0.96
5:M:66:GLY:H	9:M:601:ADP:H5'1	1.30	0.96
6:n:1003:LEU:HD12	6:n:1005:LEU:HD23	1.46	0.96
6:n:1154:ALA:CB	6:n:1402:VAL:HG23	1.96	0.96
2:J:514:ILE:HD12	3:K:47:MET:HB3	1.48	0.96
3:K:269:TRP:HH2	6:N:248:ASN:H	0.97	0.96
6:N:154:ALA:CB	6:N:402:VAL:HG23	1.96	0.96
4:d:1521:ILE:CD1	7:g:1062:ILE:HD11	1.95	0.96
6:f:1043:LEU:HD23	6:f:1057:LYS:HB2	1.44	0.96
7:o:1516:LEU:HD13	7:o:1517:ILE:HG12	1.44	0.96
6:F:154:ALA:CB	6:F:402:VAL:HG23	1.96	0.96
7:G:516:LEU:CD1	7:G:517:ILE:HG12	1.94	0.96
5:e:1088:ALA:HB2	5:e:1119:THR:HB	1.46	0.96
7:o:1043:THR:HG22	7:o:1064:ASN:HB3	1.45	0.96
6:F:117:ILE:CD1	5:M:34:ASP:CA	2.43	0.95
6:F:117:ILE:HD11	5:M:34:ASP:HA	0.97	0.95
7:O:90:GLN:HG3	7:O:101:VAL:HG21	1.48	0.95
8:P:124:ALA:O	8:P:128:ILE:HG13	1.63	0.95
1:a:1184:LEU:CD2	1:a:1198:TYR:CD2	2.49	0.95
6:F:3:LEU:HD12	6:F:5:LEU:HD23	1.46	0.95
6:f:1154:ALA:CB	6:f:1402:VAL:HG23	1.96	0.95
3:k:1264:GLU:C	3:k:1265:LYS:HG3	1.91	0.95
6:F:43:LEU:CD2	6:F:57:LYS:HB2	1.96	0.95
1:i:1494:ARG:CB	1:i:1496:SER:N	2.30	0.95
3:C:264:GLU:C	3:C:265:LYS:HG3	1.91	0.95
6:N:36:ASN:CB	6:N:57:LYS:NZ	2.24	0.95
3:c:1250:LEU:CD1	3:c:1301:VAL:HG21	1.97	0.95
6:f:1003:LEU:HD12	6:f:1005:LEU:HD23	1.46	0.95
6:n:1043:LEU:CD2	6:n:1057:LYS:HB2	1.96	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:184:LEU:CD2	1:I:198:TYR:CD2	2.49	0.95
6:f:1043:LEU:CD2	6:f:1057:LYS:HB2	1.96	0.95
1:i:1012:THR:HG21	5:m:1097:ASP:H	1.31	0.95
4:D:521:ILE:CA	7:G:50:ASP:O	2.14	0.95
7:O:235:LYS:CA	7:O:352:PHE:O	2.15	0.95
1:a:1494:ARG:CB	1:a:1496:SER:N	2.30	0.95
6:n:1420:ILE:CG2	6:n:1482:ASP:OD1	2.15	0.95
7:o:1235:LYS:CA	7:o:1352:PHE:O	2.15	0.95
6:f:1420:ILE:CG2	6:f:1482:ASP:OD1	2.15	0.95
7:g:1043:THR:HG22	7:g:1064:ASN:HB3	1.45	0.95
4:l:1521:ILE:CA	7:o:1050:ASP:O	2.13	0.95
7:o:1090:GLN:HG3	7:o:1101:VAL:HG21	1.48	0.95
7:O:43:THR:HG22	7:O:64:ASN:HB3	1.45	0.94
7:o:1516:LEU:CD1	7:o:1517:ILE:HG12	1.94	0.94
6:N:541:LEU:CB	6:N:542:LYS:CA	2.22	0.94
1:i:1184:LEU:CD2	1:i:1198:TYR:CD2	2.49	0.94
5:m:1107:LEU:HD22	5:m:1544:LEU:HG	1.49	0.94
2:J:263:LYS:NZ	3:K:266:GLU:HB3	1.81	0.94
6:f:1434:LEU:CD2	6:f:1434:LEU:N	2.30	0.94
6:f:1434:LEU:CD2	6:f:1434:LEU:H	1.80	0.94
3:C:335:THR:HB	8:H:237:LYS:HE2	1.48	0.94
5:E:253:GLN:CB	5:E:254:MET:CB	2.46	0.94
8:H:316:TYR:H	8:H:316:TYR:HD2	1.15	0.94
5:M:253:GLN:CB	5:M:254:MET:CB	2.46	0.94
8:h:1237:LYS:CB	8:h:1314:ASN:HB3	1.98	0.94
3:k:1042:LYS:CB	3:k:1460:ALA:HA	1.98	0.94
8:P:316:TYR:H	8:P:316:TYR:HD2	1.15	0.94
2:b:1348:LEU:HD23	6:f:1086:ILE:HA	0.96	0.94
7:o:1191:ARG:NE	7:o:1192:ASN:H	1.66	0.94
8:p:1237:LYS:CB	8:p:1314:ASN:HB3	1.98	0.94
5:M:107:LEU:HD22	5:M:544:LEU:HG	1.49	0.94
5:e:1107:LEU:HD22	5:e:1544:LEU:HG	1.49	0.94
6:f:1193:MET:HE3	6:f:1330:LEU:HD11	1.49	0.94
3:k:1250:LEU:CD1	3:k:1301:VAL:HG21	1.97	0.94
1:A:494:ARG:CB	1:A:496:SER:N	2.30	0.94
3:C:298:GLU:O	3:C:319:ARG:CB	2.13	0.94
4:D:523:ASP:O	7:G:51:ILE:HG23	1.67	0.94
6:f:1424:ARG:HA	6:f:1424:ARG:HE	1.33	0.94
6:f:1439:LYS:NZ	5:m:1034:ASP:CB	2.31	0.94
6:n:1452:LEU:C	6:n:1455:PRO:HD2	1.93	0.94
6:F:193:MET:HE3	6:F:330:LEU:HD11	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:70:ASP:HB2	6:N:5:LEU:HD22	1.49	0.94
7:g:1235:LYS:CA	7:g:1352:PHE:O	2.15	0.94
4:l:1254:VAL:HG22	8:p:1265:VAL:HA	1.50	0.94
6:F:420:ILE:CG2	6:F:482:ASP:OD1	2.15	0.94
1:I:494:ARG:CB	1:I:496:SER:N	2.30	0.94
6:n:1193:MET:HE3	6:n:1330:LEU:HD11	1.49	0.94
7:G:235:LYS:CA	7:G:352:PHE:O	2.15	0.93
8:H:237:LYS:CB	8:H:314:ASN:HB3	1.98	0.93
7:O:191:ARG:NE	7:O:192:ASN:H	1.65	0.93
1:a:1228:VAL:CG2	1:a:1363:GLN:HE22	1.82	0.93
3:c:1042:LYS:CB	3:c:1460:ALA:HA	1.98	0.93
3:c:1057:LEU:N	3:c:1057:LEU:HD23	1.83	0.93
4:d:1521:ILE:HD11	7:g:1062:ILE:CD1	1.97	0.93
7:g:1090:GLN:HG3	7:g:1101:VAL:HG21	1.48	0.93
5:m:1253:GLN:CB	5:m:1254:MET:CB	2.46	0.93
6:f:1409:LYS:HD3	6:f:1409:LYS:H	1.34	0.93
6:F:452:LEU:C	6:F:455:PRO:HD2	1.93	0.93
6:N:420:ILE:CG2	6:N:482:ASP:OD1	2.15	0.93
2:b:1070:ASP:HB2	6:f:1005:LEU:HD22	1.48	0.93
4:l:1254:VAL:HG11	4:l:1260:MET:SD	2.09	0.93
2:B:4:GLN:CA	2:B:5:ILE:CG1	2.30	0.93
7:G:516:LEU:HD22	7:G:517:ILE:N	1.83	0.93
2:J:251:LYS:H	6:N:251:PHE:HA	1.32	0.93
3:K:264:GLU:C	3:K:265:LYS:HG3	1.91	0.93
6:N:434:LEU:CD2	6:N:434:LEU:N	2.30	0.93
5:e:1253:GLN:CB	5:e:1254:MET:CB	2.46	0.93
7:g:1191:ARG:NE	7:g:1192:ASN:H	1.66	0.93
7:o:1513:ALA:O	7:o:1516:LEU:HD13	1.68	0.93
2:J:127:ALA:HB2	2:J:430:VAL:HG22	1.51	0.93
3:K:57:LEU:HD23	3:K:57:LEU:N	1.83	0.93
7:O:513:ALA:O	7:O:516:LEU:HD13	1.68	0.93
8:P:237:LYS:CB	8:P:314:ASN:HB3	1.98	0.93
2:j:1442:THR:HG23	2:j:1452:SER:HB2	1.50	0.93
6:n:1409:LYS:HD3	6:n:1409:LYS:H	1.34	0.93
2:B:459:LEU:HD22	2:B:472:LEU:HG	1.51	0.93
3:C:42:LYS:CB	3:C:460:ALA:HA	1.98	0.93
4:D:524:ILE:HG12	7:G:52:LEU:HB3	0.94	0.93
3:K:42:LYS:CB	3:K:460:ALA:HA	1.98	0.93
1:A:433:LEU:O	1:A:437:ALA:N	2.01	0.93
6:F:424:ARG:HA	6:F:424:ARG:HE	1.33	0.93
6:F:434:LEU:CD2	6:F:434:LEU:N	2.30	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1071:LEU:CB	8:p:1006:PRO:CB	2.46	0.93
6:f:1195:GLU:HB3	6:f:1377:THR:HG22	1.51	0.93
6:n:1434:LEU:CD2	6:n:1434:LEU:N	2.30	0.93
8:p:1316:TYR:H	8:p:1316:TYR:HD2	1.15	0.93
8:p:1463:LEU:O	8:p:1466:THR:OG1	1.87	0.93
7:G:471:ALA:O	7:G:475:GLY:CA	2.17	0.93
7:G:513:ALA:O	7:G:516:LEU:HD13	1.68	0.93
4:d:1520:ARG:O	7:g:1049:SER:HB3	1.67	0.93
5:e:1032:VAL:HG22	5:e:1033:LYS:H	1.34	0.93
7:g:1513:ALA:O	7:g:1516:LEU:HD13	1.68	0.93
6:F:195:GLU:HB3	6:F:377:THR:HG22	1.51	0.93
2:b:1004:GLN:CA	2:b:1005:ILE:CG1	2.30	0.93
7:o:1471:ALA:O	7:o:1475:GLY:CA	2.17	0.93
6:F:409:LYS:H	6:F:409:LYS:HD3	1.34	0.93
2:J:459:LEU:HD22	2:J:472:LEU:HG	1.51	0.93
7:g:1471:ALA:O	7:g:1475:GLY:N	2.02	0.93
1:i:1228:VAL:CG2	1:i:1363:GLN:HE22	1.81	0.93
6:F:224:MET:HE1	6:F:316:ALA:H	1.34	0.92
7:G:191:ARG:NE	7:G:192:ASN:H	1.65	0.92
6:N:452:LEU:C	6:N:455:PRO:HD2	1.93	0.92
3:C:57:LEU:HD23	3:C:57:LEU:N	1.83	0.92
1:I:350:PHE:HE2	1:I:354:TYR:HB2	1.34	0.92
1:I:433:LEU:O	1:I:437:ALA:N	2.01	0.92
4:L:523:ASP:O	7:O:51:ILE:HG23	1.69	0.92
7:g:1471:ALA:O	7:g:1475:GLY:CA	2.17	0.92
7:o:1471:ALA:O	7:o:1475:GLY:N	2.02	0.92
2:B:442:THR:HG23	2:B:452:SER:HB2	1.50	0.92
4:L:210:ILE:HB	4:L:376:SER:O	1.69	0.92
6:N:409:LYS:H	6:N:409:LYS:HD3	1.34	0.92
6:N:424:ARG:HE	6:N:424:ARG:HA	1.33	0.92
7:O:471:ALA:O	7:O:475:GLY:N	2.02	0.92
3:c:1264:GLU:C	3:c:1265:LYS:HG3	1.91	0.92
8:h:1463:LEU:O	8:h:1466:THR:OG1	1.87	0.92
6:F:434:LEU:CD2	6:F:434:LEU:H	1.80	0.92
1:a:1433:LEU:O	1:a:1437:ALA:N	2.01	0.92
6:f:1452:LEU:C	6:f:1455:PRO:HD2	1.93	0.92
2:j:1459:LEU:HD22	2:j:1472:LEU:HG	1.51	0.92
7:G:188:SER:C	7:G:190:ASP:HB2	1.95	0.92
1:a:1250:ASN:CB	1:a:1300:LYS:CB	2.47	0.92
7:o:1516:LEU:HD22	7:o:1517:ILE:N	1.83	0.92
2:J:442:THR:HG23	2:J:452:SER:HB2	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:516:LEU:HD22	7:O:517:ILE:N	1.83	0.92
6:F:541:LEU:CB	6:F:542:LYS:CA	2.22	0.92
6:N:193:MET:HE3	6:N:330:LEU:HD11	1.49	0.92
4:d:1254:VAL:HG11	4:d:1260:MET:SD	2.09	0.92
7:g:1516:LEU:HD22	7:g:1517:ILE:N	1.83	0.92
4:l:1210:ILE:HB	4:l:1376:SER:O	1.70	0.92
6:n:1541:LEU:CB	6:n:1542:LYS:CA	2.22	0.92
4:D:254:VAL:HG11	4:D:260:MET:SD	2.09	0.92
5:E:107:LEU:HD22	5:E:544:LEU:HG	1.49	0.92
4:L:254:VAL:HG11	4:L:260:MET:SD	2.09	0.92
7:G:90:GLN:HG3	7:G:101:VAL:HG21	1.48	0.92
8:H:209:VAL:HG22	8:H:386:LEU:HD11	1.52	0.92
6:N:195:GLU:HB3	6:N:377:THR:HG22	1.51	0.92
7:O:188:SER:C	7:O:190:ASP:HB2	1.95	0.92
2:b:1459:LEU:HD22	2:b:1472:LEU:HG	1.51	0.92
7:g:1188:SER:C	7:g:1190:ASP:HB2	1.95	0.92
7:g:1191:ARG:HA	7:g:1191:ARG:NE	1.85	0.92
3:k:1057:LEU:N	3:k:1057:LEU:HD23	1.83	0.92
6:n:1224:MET:HE1	6:n:1316:ALA:H	1.34	0.92
7:O:471:ALA:O	7:O:475:GLY:CA	2.17	0.92
2:b:1442:THR:HG23	2:b:1452:SER:HB2	1.50	0.92
1:A:228:VAL:CG2	1:A:363:GLN:HE22	1.82	0.91
1:A:250:ASN:CB	1:A:300:LYS:CB	2.47	0.91
1:i:1433:LEU:O	1:i:1437:ALA:N	2.01	0.91
2:B:21:SER:HG	1:I:8:SER:N	1.67	0.91
2:B:127:ALA:HB2	2:B:430:VAL:HG22	1.51	0.91
1:I:228:VAL:CG2	1:I:363:GLN:HE22	1.82	0.91
6:f:1209:PHE:HE2	6:f:1376:CYS:HG	0.94	0.91
5:E:166:ASP:N	5:E:167:ASP:HB2	1.86	0.91
4:l:1524:ILE:HG12	7:o:1052:LEU:HB3	0.94	0.91
4:D:210:ILE:HB	4:D:376:SER:O	1.69	0.91
1:a:1350:PHE:HE2	1:a:1354:TYR:HB2	1.34	0.91
2:b:1029:VAL:O	2:b:1033:VAL:CG2	2.19	0.91
6:N:36:ASN:HB3	6:N:57:LYS:HZ1	1.29	0.91
6:N:151:LEU:HD13	6:N:175:THR:HG23	0.91	0.91
7:G:471:ALA:O	7:G:475:GLY:N	2.02	0.91
1:I:250:ASN:CB	1:I:300:LYS:CB	2.47	0.91
2:J:3:VAL:O	2:J:5:ILE:HG21	1.71	0.91
5:e:1166:ASP:N	5:e:1167:ASP:HB2	1.86	0.91
5:m:1166:ASP:N	5:m:1167:ASP:HB2	1.86	0.91
7:o:1188:SER:C	7:o:1190:ASP:HB2	1.95	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:27:ILE:HD12	2:B:104:ARG:HH11	1.36	0.91
2:B:29:VAL:O	2:B:33:VAL:CG2	2.19	0.91
2:J:27:ILE:HD12	2:J:104:ARG:HH11	1.36	0.91
4:L:521:ILE:CA	7:O:50:ASP:O	2.18	0.91
2:b:1127:ALA:HB2	2:b:1430:VAL:HG22	1.51	0.91
3:c:1269:TRP:HH2	6:f:1248:ASN:H	1.15	0.91
2:j:1070:ASP:HB2	6:n:1005:LEU:HD22	1.51	0.91
2:j:1127:ALA:HB2	2:j:1430:VAL:HG22	1.51	0.91
6:n:1424:ARG:HA	6:n:1424:ARG:HE	1.33	0.91
8:H:113:VAL:HG12	8:H:451:GLN:HG3	1.53	0.91
2:j:1003:VAL:O	2:j:1005:ILE:HG21	1.71	0.91
3:k:1250:LEU:CG	3:k:1301:VAL:CG2	2.48	0.91
6:n:1354:VAL:HG13	6:n:1367:VAL:HG22	1.53	0.91
6:F:159:LEU:HA	6:F:164:ALA:CB	2.01	0.90
6:N:434:LEU:N	6:N:441:LYS:CB	2.34	0.90
4:d:1185:ASN:N	4:d:1186:SER:C	2.30	0.90
4:d:1210:ILE:HB	4:d:1376:SER:O	1.69	0.90
1:i:1250:ASN:CB	1:i:1300:LYS:CB	2.47	0.90
2:J:422:ILE:CG2	2:J:427:SER:HB3	2.02	0.90
6:n:1159:LEU:HA	6:n:1164:ALA:CB	2.01	0.90
2:B:3:VAL:O	2:B:5:ILE:HG21	1.71	0.90
5:E:401:THR:C	5:E:402:LYS:HG3	1.96	0.90
7:G:191:ARG:HA	7:G:191:ARG:NE	1.85	0.90
4:L:185:ASN:N	4:L:186:SER:C	2.30	0.90
6:N:224:MET:HE1	6:N:316:ALA:H	1.34	0.90
8:P:237:LYS:CB	8:P:314:ASN:CB	2.49	0.90
2:b:1003:VAL:O	2:b:1005:ILE:HG21	1.71	0.90
8:h:1316:TYR:H	8:h:1316:TYR:HD2	1.15	0.90
1:i:1543:THR:HB	5:m:1072:LYS:HD3	1.54	0.90
2:j:1003:VAL:O	2:j:1005:ILE:HD13	1.72	0.90
4:l:1185:ASN:N	4:l:1186:SER:C	2.29	0.90
6:F:209:PHE:HE2	6:F:376:CYS:HG	0.92	0.90
8:H:463:LEU:O	8:H:466:THR:OG1	1.87	0.90
6:N:354:VAL:HG13	6:N:367:VAL:HG22	1.53	0.90
7:O:316:GLY:O	7:O:317:ARG:HB3	1.71	0.90
3:c:1250:LEU:CG	3:c:1301:VAL:CG2	2.48	0.90
6:f:1151:LEU:HD13	6:f:1175:THR:HG23	0.91	0.90
2:j:1029:VAL:O	2:j:1033:VAL:CG2	2.19	0.90
1:A:350:PHE:HE2	1:A:354:TYR:HB2	1.34	0.90
6:N:159:LEU:HA	6:N:164:ALA:CB	2.01	0.90
3:k:1265:LYS:HZ3	3:k:1268:ASP:HB3	1.34	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3:VAL:O	2:B:5:ILE:HD13	1.72	0.90
6:F:434:LEU:N	6:F:441:LYS:CB	2.34	0.90
4:d:1071:LEU:CB	8:p:1006:PRO:HB3	2.02	0.90
4:D:185:ASN:N	4:D:186:SER:C	2.30	0.90
8:P:463:LEU:O	8:P:466:THR:OG1	1.87	0.90
8:h:1388:GLY:HA3	8:h:1394:LEU:HD21	1.53	0.90
6:n:1083:GLN:CG	6:n:1094:VAL:HG21	2.02	0.90
8:h:1209:VAL:HG22	8:h:1386:LEU:HD11	1.52	0.90
5:m:1032:VAL:HG22	5:m:1033:LYS:H	1.34	0.90
7:o:1191:ARG:HA	7:o:1191:ARG:NE	1.85	0.90
3:C:265:LYS:HZ3	3:C:268:ASP:HB3	1.35	0.89
6:f:1083:GLN:CG	6:f:1094:VAL:HG21	2.02	0.89
6:f:1224:MET:HE1	6:f:1316:ALA:H	1.34	0.89
2:j:1027:ILE:HD12	2:j:1104:ARG:HH11	1.36	0.89
6:F:109:ILE:HG13	5:M:39:LYS:HZ3	1.35	0.89
6:F:354:VAL:HG13	6:F:367:VAL:HG22	1.53	0.89
2:J:70:ASP:CB	6:N:5:LEU:HD22	2.02	0.89
5:M:32:VAL:HG22	5:M:33:LYS:H	1.34	0.89
5:M:166:ASP:N	5:M:167:ASP:HB2	1.85	0.89
7:O:191:ARG:HA	7:O:191:ARG:NE	1.85	0.89
8:P:209:VAL:HG22	8:P:386:LEU:HD11	1.52	0.89
8:h:1237:LYS:CB	8:h:1314:ASN:CB	2.49	0.89
1:i:1156:LEU:HD13	1:i:1185:LEU:HD11	1.54	0.89
6:n:1209:PHE:HE2	6:n:1376:CYS:HG	0.95	0.89
8:p:1209:VAL:HG22	8:p:1386:LEU:HD11	1.52	0.89
2:B:422:ILE:CG2	2:B:427:SER:HB3	2.02	0.89
3:K:41:PRO:HA	3:K:161:THR:CG2	2.02	0.89
2:b:1422:ILE:CG2	2:b:1427:SER:HB3	2.02	0.89
2:j:1263:LYS:NZ	3:k:1266:GLU:CB	2.34	0.89
6:n:1195:GLU:HB3	6:n:1377:THR:HG22	1.51	0.89
6:n:1430:ASN:CA	6:n:1433:LYS:HG2	2.00	0.89
6:n:1434:LEU:N	6:n:1441:LYS:CB	2.34	0.89
2:B:4:GLN:HA	2:B:5:ILE:HG12	0.90	0.89
6:F:151:LEU:HD13	6:F:175:THR:HG23	0.91	0.89
2:J:29:VAL:O	2:J:33:VAL:CG2	2.19	0.89
6:f:1159:LEU:HA	6:f:1164:ALA:CB	2.01	0.89
2:j:1242:LYS:HB2	3:k:1269:TRP:HZ2	1.35	0.89
1:A:156:LEU:HD13	1:A:185:LEU:HD11	1.54	0.89
7:G:316:GLY:O	7:G:317:ARG:HB3	1.71	0.89
2:b:1329:PHE:C	2:b:1329:PHE:CD2	2.51	0.89
3:c:1041:PRO:HA	3:c:1161:THR:CG2	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:m:1401:THR:C	5:m:1402:LYS:HG3	1.97	0.89
6:n:1151:LEU:HD13	6:n:1175:THR:HG23	0.91	0.89
1:a:1090:GLN:CG	1:a:1101:VAL:HG21	2.03	0.89
6:f:1434:LEU:N	6:f:1441:LYS:CB	2.34	0.89
2:j:1004:GLN:HA	2:j:1005:ILE:HG12	0.90	0.89
8:H:6:PRO:CB	4:L:71:LEU:CB	2.51	0.89
3:c:1265:LYS:HZ3	3:c:1268:ASP:HB3	1.34	0.89
7:o:1189:LEU:CA	7:o:1190:ASP:HB2	1.94	0.89
3:C:41:PRO:HA	3:C:161:THR:CG2	2.02	0.89
4:L:521:ILE:CG1	7:O:62:ILE:HD11	2.01	0.89
8:p:1113:VAL:HG12	8:p:1451:GLN:HG3	1.54	0.89
2:B:242:LYS:CE	2:B:247:GLY:H	1.86	0.89
4:D:330:CYS:CB	4:D:345:ASP:CG	2.45	0.89
2:b:1348:LEU:HD11	6:f:1085:GLU:O	1.69	0.89
5:e:1401:THR:C	5:e:1402:LYS:HG3	1.97	0.89
8:h:1113:VAL:HG12	8:h:1451:GLN:HG3	1.54	0.89
8:p:1237:LYS:CB	8:p:1314:ASN:CB	2.49	0.89
6:N:83:GLN:CG	6:N:94:VAL:HG21	2.02	0.89
1:a:1156:LEU:HD13	1:a:1185:LEU:HD11	1.54	0.89
2:b:1003:VAL:O	2:b:1005:ILE:HD13	1.72	0.89
2:j:1422:ILE:CG2	2:j:1427:SER:HB3	2.02	0.89
7:g:1316:GLY:O	7:g:1317:ARG:HB3	1.71	0.88
2:B:329:PHE:C	2:B:329:PHE:CD2	2.51	0.88
5:M:401:THR:C	5:M:402:LYS:HG3	1.97	0.88
8:P:113:VAL:HG12	8:P:451:GLN:HG3	1.54	0.88
3:k:1041:PRO:HA	3:k:1161:THR:CG2	2.02	0.88
8:p:1388:GLY:HA3	8:p:1394:LEU:HD21	1.54	0.88
1:I:90:GLN:CG	1:I:101:VAL:HG21	2.03	0.88
2:J:3:VAL:O	2:J:5:ILE:HD13	1.72	0.88
6:N:430:ASN:CA	6:N:433:LYS:HG2	2.00	0.88
2:b:1027:ILE:HD12	2:b:1104:ARG:HH11	1.36	0.88
1:i:1350:PHE:HE2	1:i:1354:TYR:HB2	1.34	0.88
5:E:174:GLU:O	5:E:175:LEU:HG	1.74	0.88
2:J:242:LYS:CE	2:J:247:GLY:H	1.86	0.88
6:N:143:LEU:CD1	6:N:145:ASN:H	1.85	0.88
8:P:6:PRO:HB2	8:P:7:GLN:HG3	1.55	0.88
2:b:1004:GLN:HA	2:b:1005:ILE:HG12	0.89	0.88
2:j:1070:ASP:CB	6:n:1005:LEU:HD22	2.04	0.88
8:H:388:GLY:HA3	8:H:394:LEU:HD21	1.53	0.88
1:I:350:PHE:CE2	1:I:354:TYR:HB2	2.09	0.88
2:J:4:GLN:HA	2:J:5:ILE:HG12	0.89	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:m:1173:ASP:HB3	5:m:1437:SER:CB	2.04	0.88
5:m:1174:GLU:O	5:m:1175:LEU:HG	1.74	0.88
6:F:83:GLN:CG	6:F:94:VAL:HG21	2.02	0.88
5:M:173:ASP:HB3	5:M:437:SER:CB	2.04	0.88
6:n:1411:ILE:HG22	6:n:1412:ILE:H	1.39	0.88
5:E:32:VAL:HG22	5:E:33:LYS:H	1.34	0.88
3:c:1329:ALA:HB1	3:c:1334:ALA:O	1.73	0.88
5:e:1173:ASP:HB3	5:e:1437:SER:CB	2.04	0.88
3:K:265:LYS:HZ3	3:K:268:ASP:HB3	1.34	0.88
6:N:209:PHE:HE2	6:N:376:CYS:HG	0.92	0.88
2:b:1242:LYS:CE	2:b:1247:GLY:H	1.86	0.88
1:A:90:GLN:CG	1:A:101:VAL:HG21	2.03	0.88
5:M:174:GLU:O	5:M:175:LEU:HG	1.74	0.88
2:b:1285:ILE:HD11	2:b:1289:LEU:HD23	1.56	0.88
3:k:1329:ALA:HB1	3:k:1334:ALA:O	1.73	0.88
6:n:1143:LEU:CD1	6:n:1145:ASN:H	1.85	0.88
6:n:1540:THR:C	6:n:1541:LEU:CD2	2.47	0.88
5:E:320:VAL:HG22	5:E:341:PRO:HD2	1.56	0.88
8:H:237:LYS:CB	8:H:314:ASN:CB	2.49	0.88
6:N:330:LEU:HD12	6:N:375:SER:HB3	1.57	0.88
6:N:541:LEU:HB3	6:N:542:LYS:HA	1.56	0.88
2:B:514:ILE:HD12	3:C:47:MET:HB3	1.56	0.87
6:F:330:LEU:HD12	6:F:375:SER:HB3	1.56	0.87
6:f:1036:ASN:HB3	6:f:1057:LYS:HZ2	1.38	0.87
6:f:1330:LEU:HD12	6:f:1375:SER:HB3	1.57	0.87
2:j:1242:LYS:CE	2:j:1247:GLY:H	1.86	0.87
1:I:156:LEU:HD13	1:I:185:LEU:HD11	1.54	0.87
6:f:1439:LYS:HD2	6:f:1439:LYS:N	1.89	0.87
4:l:1520:ARG:O	7:o:1049:SER:CB	2.21	0.87
2:B:474:LEU:HG	9:B:601:ADP:C2	2.09	0.87
3:C:230:VAL:CG1	3:C:302:SER:OG	2.22	0.87
3:K:230:VAL:CG1	3:K:302:SER:OG	2.22	0.87
6:f:1354:VAL:HG13	6:f:1367:VAL:HG22	1.53	0.87
6:n:1036:ASN:HB3	6:n:1057:LYS:HZ1	1.30	0.87
3:K:269:TRP:CZ3	6:N:247:VAL:HB	2.09	0.87
6:f:1411:ILE:HG22	6:f:1412:ILE:H	1.39	0.87
1:i:1090:GLN:CG	1:i:1101:VAL:HG21	2.03	0.87
3:k:1230:VAL:CG1	3:k:1302:SER:OG	2.22	0.87
3:C:329:ALA:HB1	3:C:334:ALA:O	1.73	0.87
6:F:430:ASN:CA	6:F:433:LYS:HG2	2.00	0.87
2:J:329:PHE:C	2:J:329:PHE:CD2	2.51	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1070:ASP:CB	6:f:1005:LEU:HD22	2.04	0.87
3:c:1250:LEU:HD11	3:c:1301:VAL:HG21	1.56	0.87
1:a:1264:ILE:HD11	7:g:1259:VAL:HG23	1.53	0.87
1:i:1350:PHE:CE2	1:i:1354:TYR:HB2	2.09	0.87
2:j:1263:LYS:HZ3	3:k:1266:GLU:HB3	1.33	0.87
7:o:1316:GLY:O	7:o:1317:ARG:HB3	1.71	0.87
2:J:285:ILE:HD11	2:J:289:LEU:HD23	1.56	0.87
6:N:362:GLU:HG2	6:N:364:PHE:CE2	2.10	0.87
1:a:1350:PHE:CE2	1:a:1354:TYR:HB2	2.09	0.87
6:f:1143:LEU:CD1	6:f:1145:ASN:H	1.85	0.87
3:k:1456:LEU:HD21	9:k:2101:ADP:H5'1	1.56	0.87
6:F:38:GLY:H	9:F:601:ADP:H5'1	1.36	0.87
7:G:43:THR:CG2	7:G:64:ASN:HB3	2.05	0.87
7:g:1148:THR:O	7:g:1149:SER:HB3	1.75	0.87
3:k:1250:LEU:HD11	3:k:1301:VAL:HG21	1.56	0.87
6:n:1330:LEU:HD12	6:n:1375:SER:HB3	1.57	0.87
8:p:1006:PRO:HB2	8:p:1007:GLN:HG3	1.55	0.87
5:E:173:ASP:HB3	5:E:437:SER:CB	2.04	0.87
7:O:170:LEU:HD23	7:O:170:LEU:O	1.75	0.87
3:c:1230:VAL:CG1	3:c:1302:SER:OG	2.22	0.87
1:A:350:PHE:CE2	1:A:354:TYR:HB2	2.09	0.86
2:B:285:ILE:HD11	2:B:289:LEU:HD23	1.56	0.86
8:H:204:VAL:HG13	8:H:405:VAL:HG12	1.57	0.86
3:c:1129:LEU:HG	3:c:1514:ILE:HG21	1.57	0.86
6:n:1362:GLU:HG2	6:n:1364:PHE:CE2	2.10	0.86
7:o:1043:THR:CG2	7:o:1064:ASN:HB3	2.05	0.86
7:o:1170:LEU:HD23	7:o:1170:LEU:O	1.75	0.86
6:N:5:LEU:HA	6:N:6:LEU:HB3	1.57	0.86
6:N:5:LEU:HB2	6:N:6:LEU:O	1.75	0.86
6:f:1362:GLU:HG2	6:f:1364:PHE:CE2	2.10	0.86
2:j:1329:PHE:C	2:j:1329:PHE:CD2	2.51	0.86
7:o:1148:THR:O	7:o:1149:SER:HB3	1.75	0.86
7:O:43:THR:CG2	7:O:64:ASN:HB3	2.05	0.86
3:c:1015:THR:O	3:c:1016:THR:O	1.93	0.86
5:e:1034:ASP:CA	6:n:1117:ILE:CD1	2.52	0.86
5:e:1174:GLU:O	5:e:1175:LEU:HG	1.74	0.86
8:p:1204:VAL:HG13	8:p:1405:VAL:HG12	1.57	0.86
6:F:143:LEU:CD1	6:F:145:ASN:H	1.85	0.86
3:K:15:THR:O	3:K:16:THR:O	1.93	0.86
6:N:540:THR:C	6:N:541:LEU:CD2	2.47	0.86
2:b:1348:LEU:HG	6:f:1086:ILE:N	1.89	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g:1170:LEU:HD23	7:g:1170:LEU:O	1.75	0.86
8:p:1024:ALA:HA	8:p:1531:ALA:O	1.76	0.86
8:P:388:GLY:HA3	8:P:394:LEU:HD21	1.54	0.86
3:k:1015:THR:O	3:k:1016:THR:O	1.93	0.86
6:n:1154:ALA:CB	6:n:1402:VAL:CG2	2.54	0.86
6:n:1434:LEU:H	6:n:1434:LEU:CD2	1.80	0.86
6:F:362:GLU:HG2	6:F:364:PHE:CE2	2.10	0.86
2:J:208:LEU:HD13	2:J:366:THR:HG22	1.56	0.86
3:k:1129:LEU:HG	3:k:1514:ILE:HG21	1.57	0.86
6:F:117:ILE:HG12	5:M:33:LYS:HE2	1.56	0.86
7:O:148:THR:O	7:O:149:SER:HB3	1.75	0.86
4:d:1524:ILE:CA	7:g:1052:LEU:O	2.24	0.86
5:e:1320:VAL:HG22	5:e:1341:PRO:HD2	1.56	0.86
3:C:129:LEU:HG	3:C:514:ILE:HG21	1.57	0.86
3:K:129:LEU:HG	3:K:514:ILE:HG21	1.57	0.86
8:P:24:ALA:HA	8:P:531:ALA:O	1.76	0.86
6:f:1415:ALA:HB2	6:f:1506:ILE:HG21	1.57	0.86
8:h:1024:ALA:HA	8:h:1531:ALA:O	1.76	0.86
6:F:154:ALA:CB	6:F:402:VAL:CG2	2.54	0.86
6:F:411:ILE:HG22	6:F:412:ILE:H	1.39	0.86
8:H:6:PRO:HB2	8:H:7:GLN:HG3	1.55	0.86
6:f:1151:LEU:HD13	6:f:1175:THR:HG21	0.86	0.86
6:F:151:LEU:HD13	6:F:175:THR:HG21	0.86	0.85
6:F:540:THR:C	6:F:541:LEU:CD2	2.47	0.85
6:F:541:LEU:HB3	6:F:542:LYS:HA	1.56	0.85
5:M:320:VAL:HG22	5:M:341:PRO:HD2	1.56	0.85
6:N:411:ILE:HG22	6:N:412:ILE:H	1.39	0.85
6:f:1005:LEU:HA	6:f:1006:LEU:HB3	1.57	0.85
6:f:1540:THR:C	6:f:1541:LEU:CD2	2.47	0.85
7:g:1043:THR:CG2	7:g:1064:ASN:HB3	2.05	0.85
4:l:1524:ILE:HG23	7:o:1052:LEU:O	1.76	0.85
6:n:1005:LEU:HA	6:n:1006:LEU:HB3	1.57	0.85
6:n:1243:GLU:HA	6:n:1243:GLU:OE2	1.76	0.85
3:C:15:THR:O	3:C:16:THR:O	1.93	0.85
5:E:166:ASP:CA	5:E:167:ASP:HB2	2.06	0.85
6:F:5:LEU:HA	6:F:6:LEU:HB3	1.57	0.85
7:G:516:LEU:HD22	7:G:516:LEU:O	1.76	0.85
3:K:329:ALA:HB1	3:K:334:ALA:O	1.73	0.85
4:L:72:HIS:CB	4:L:75:ALA:HB3	2.05	0.85
6:F:5:LEU:HB2	6:F:6:LEU:O	1.75	0.85
7:G:189:LEU:HD12	7:G:189:LEU:O	1.77	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:208:LEU:HD11	2:J:364:ALA:HB1	1.59	0.85
6:N:154:ALA:CB	6:N:402:VAL:CG2	2.54	0.85
1:a:1088:GLN:O	1:a:1092:ARG:HD2	1.76	0.85
4:d:1072:HIS:CB	4:d:1075:ALA:HB3	2.05	0.85
7:g:1189:LEU:CA	7:g:1190:ASP:HB2	1.94	0.85
4:l:1072:HIS:CB	4:l:1075:ALA:HB3	2.05	0.85
4:l:1151:VAL:HG22	4:l:1175:VAL:HG21	1.59	0.85
5:m:1166:ASP:CA	5:m:1167:ASP:HB2	2.07	0.85
5:m:1320:VAL:HG22	5:m:1341:PRO:HD2	1.56	0.85
6:N:243:GLU:OE2	6:N:243:GLU:HA	1.76	0.85
2:b:1072:PRO:O	2:b:1076:VAL:HG23	1.76	0.85
6:f:1154:ALA:CB	6:f:1402:VAL:CG2	2.54	0.85
2:j:1072:PRO:O	2:j:1076:VAL:HG23	1.76	0.85
4:D:520:ARG:O	7:G:49:SER:CB	2.23	0.85
1:a:1093:GLU:CB	1:a:1094:ILE:CD1	2.55	0.85
6:f:1541:LEU:HB3	6:f:1542:LYS:HA	1.56	0.85
6:n:1415:ALA:HB2	6:n:1506:ILE:HG21	1.58	0.85
2:b:1251:LYS:H	6:f:1251:PHE:HA	1.42	0.85
6:f:1075:LEU:HD13	6:f:1527:LEU:HD21	1.59	0.85
2:B:208:LEU:HD11	2:B:364:ALA:HB1	1.59	0.85
2:B:211:GLY:HA3	2:B:355:LYS:O	1.77	0.85
2:B:245:ILE:O	2:B:246:PHE:CD2	2.30	0.85
2:B:422:ILE:CB	2:B:427:SER:HB2	2.07	0.85
4:D:72:HIS:CB	4:D:75:ALA:HB3	2.05	0.85
7:G:148:THR:O	7:G:149:SER:HB3	1.75	0.85
6:N:75:LEU:HD13	6:N:527:LEU:HD21	1.59	0.85
2:b:1004:GLN:C	2:b:1005:ILE:HG23	2.02	0.85
2:b:1208:LEU:HD11	2:b:1364:ALA:HB1	1.59	0.85
2:b:1422:ILE:CB	2:b:1427:SER:HB2	2.07	0.85
2:j:1285:ILE:HD11	2:j:1289:LEU:HD23	1.56	0.85
3:k:1301:VAL:HG23	3:k:1305:ALA:CB	2.04	0.85
4:l:1521:ILE:HG23	7:o:1051:ILE:HA	1.59	0.85
8:p:1346:ALA:N	8:p:1347:PRO:HD3	1.92	0.85
1:A:88:GLN:O	1:A:92:ARG:HD2	1.76	0.85
2:J:4:GLN:C	2:J:5:ILE:HG23	2.02	0.85
6:N:151:LEU:HD13	6:N:175:THR:HG21	0.86	0.85
5:e:1039:LYS:HZ3	6:n:1109:ILE:HG13	1.40	0.85
6:f:1005:LEU:HB2	6:f:1006:LEU:O	1.75	0.85
8:h:1346:ALA:N	8:h:1347:PRO:HD3	1.92	0.85
5:m:1104:LEU:HD21	5:m:1123:VAL:HG13	1.58	0.85
1:A:93:GLU:CB	1:A:94:ILE:CD1	2.55	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:422:ILE:CB	2:J:427:SER:HB2	2.07	0.85
2:j:1263:LYS:HZ1	3:k:1266:GLU:HG2	1.39	0.85
8:H:24:ALA:HA	8:H:531:ALA:O	1.76	0.85
8:H:346:ALA:N	8:H:347:PRO:HD3	1.92	0.85
2:J:72:PRO:O	2:J:76:VAL:HG23	1.76	0.85
8:h:1204:VAL:HG13	8:h:1405:VAL:HG12	1.57	0.85
2:B:72:PRO:O	2:B:76:VAL:HG23	1.76	0.84
5:e:1166:ASP:CA	5:e:1167:ASP:HB2	2.07	0.84
1:i:1093:GLU:CB	1:i:1094:ILE:CD1	2.55	0.84
5:E:104:LEU:HD21	5:E:123:VAL:HG13	1.58	0.84
4:L:285:VAL:HA	4:L:311:MET:O	1.78	0.84
5:M:166:ASP:CA	5:M:167:ASP:HB2	2.07	0.84
8:P:204:VAL:HG13	8:P:405:VAL:HG12	1.57	0.84
5:e:1084:THR:HG22	5:e:1086:ASP:H	1.42	0.84
6:f:1035:THR:HG22	6:f:1042:THR:O	1.78	0.84
6:n:1005:LEU:HB2	6:n:1006:LEU:O	1.75	0.84
7:O:189:LEU:HD12	7:O:189:LEU:O	1.77	0.84
7:O:516:LEU:HD22	7:O:516:LEU:O	1.76	0.84
4:d:1285:VAL:HA	4:d:1311:MET:O	1.78	0.84
7:g:1516:LEU:HD22	7:g:1516:LEU:O	1.76	0.84
1:i:1158:ASN:HB3	1:i:1516:GLY:O	1.77	0.84
2:j:1211:GLY:HA3	2:j:1355:LYS:O	1.77	0.84
4:l:1285:VAL:HA	4:l:1311:MET:O	1.78	0.84
4:D:330:CYS:CB	4:D:345:ASP:OD1	2.25	0.84
4:L:521:ILE:CD1	7:O:62:ILE:CD1	2.48	0.84
4:d:1521:ILE:CG1	7:g:1062:ILE:HD11	2.07	0.84
5:e:1104:LEU:HD21	5:e:1123:VAL:HG13	1.58	0.84
7:g:1186:VAL:HG21	7:g:1400:VAL:HG21	1.59	0.84
6:F:75:LEU:HD13	6:F:527:LEU:HD21	1.59	0.84
2:J:245:ILE:O	2:J:246:PHE:CD2	2.30	0.84
6:N:3:LEU:N	6:N:4:GLN:CB	2.41	0.84
7:O:109:MET:CG	7:O:514:THR:HG22	2.08	0.84
7:O:189:LEU:CA	7:O:190:ASP:HB2	1.94	0.84
1:a:1045:GLY:H	9:a:1601:ADP:H5'1	1.42	0.84
2:b:1088:VAL:HG13	2:b:1393:GLN:HE22	1.43	0.84
2:j:1463:ILE:C	2:j:1467:ILE:HG12	2.01	0.84
7:o:1189:LEU:HD12	7:o:1189:LEU:O	1.77	0.84
7:G:170:LEU:HD23	7:G:170:LEU:O	1.75	0.84
1:I:158:ASN:HB3	1:I:516:GLY:O	1.77	0.84
2:b:1211:GLY:HA3	2:b:1355:LYS:O	1.77	0.84
2:B:463:ILE:C	2:B:467:ILE:HG12	2.01	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:88:GLN:O	1:I:92:ARG:HD2	1.76	0.84
7:O:186:VAL:HG21	7:O:400:VAL:CG2	2.08	0.84
7:g:1189:LEU:HD12	7:g:1189:LEU:O	1.77	0.84
7:o:1109:MET:CG	7:o:1514:THR:HG22	2.08	0.84
4:D:250:ASN:HA	7:G:259:VAL:HG12	1.60	0.84
4:D:285:VAL:HA	4:D:311:MET:O	1.78	0.84
6:N:424:ARG:HG2	6:N:483:SER:HA	1.60	0.84
2:b:1245:ILE:O	2:b:1246:PHE:CD2	2.30	0.84
6:f:1243:GLU:HA	6:f:1243:GLU:OE2	1.76	0.84
4:l:1521:ILE:HG23	7:o:1050:ASP:O	1.77	0.84
4:l:1524:ILE:CA	7:o:1052:LEU:O	2.25	0.84
7:o:1516:LEU:HD22	7:o:1516:LEU:O	1.76	0.84
2:B:4:GLN:C	2:B:5:ILE:HG23	2.02	0.84
4:D:71:LEU:CB	8:P:6:PRO:CB	2.55	0.84
6:F:36:ASN:HB3	6:F:57:LYS:HZ1	1.41	0.84
1:I:93:GLU:CB	1:I:94:ILE:CD1	2.54	0.84
2:J:463:ILE:C	2:J:467:ILE:HG12	2.01	0.84
1:a:1158:ASN:HB3	1:a:1516:GLY:O	1.77	0.84
2:b:1463:ILE:C	2:b:1467:ILE:HG12	2.01	0.84
6:f:1003:LEU:N	6:f:1004:GLN:CB	2.41	0.84
2:j:1422:ILE:CB	2:j:1427:SER:HB2	2.07	0.84
2:B:295:GLU:C	6:F:337:GLN:HE22	1.86	0.84
6:F:35:THR:HG22	6:F:42:THR:O	1.78	0.84
4:L:524:ILE:HG12	7:O:52:LEU:HB3	0.87	0.84
4:l:1185:ASN:CB	4:l:1186:SER:HB2	2.08	0.84
4:D:185:ASN:CB	4:D:186:SER:HB2	2.08	0.83
4:D:524:ILE:CA	7:G:52:LEU:O	2.24	0.83
2:J:361:ALA:H	2:J:362:GLY:HA2	1.01	0.83
5:M:104:LEU:HD21	5:M:123:VAL:HG13	1.58	0.83
6:N:415:ALA:HB2	6:N:506:ILE:HG21	1.57	0.83
1:i:1264:ILE:HD11	7:o:1259:VAL:HG23	1.60	0.83
2:j:1245:ILE:O	2:j:1246:PHE:CD2	2.30	0.83
7:o:1186:VAL:HG21	7:o:1400:VAL:CG2	2.08	0.83
8:p:1074:GLU:OE1	8:p:1074:GLU:HA	1.78	0.83
2:B:88:VAL:HG13	2:B:393:GLN:HE22	1.43	0.83
5:E:84:THR:HG22	5:E:86:ASP:H	1.42	0.83
6:F:3:LEU:N	6:F:4:GLN:CB	2.41	0.83
7:G:109:MET:CG	7:G:514:THR:HG22	2.08	0.83
7:O:94:VAL:HG21	7:O:502:VAL:CG2	2.06	0.83
3:k:1430:LYS:O	3:k:1433:GLN:HG3	1.78	0.83
4:L:151:VAL:HG22	4:L:175:VAL:HG21	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1320:VAL:HG21	2:b:1337:LEU:CB	2.09	0.83
2:j:1208:LEU:HD11	2:j:1364:ALA:HB1	1.59	0.83
2:B:320:VAL:HG21	2:B:337:LEU:CB	2.09	0.83
4:D:254:VAL:HG21	8:H:265:VAL:HG22	1.60	0.83
6:F:539:SER:CB	6:F:542:LYS:HD2	2.09	0.83
8:P:346:ALA:N	8:P:347:PRO:HD3	1.92	0.83
7:g:1094:VAL:HG21	7:g:1502:VAL:CG2	2.06	0.83
1:i:1088:GLN:O	1:i:1092:ARG:HD2	1.76	0.83
6:n:1382:GLY:HA3	6:n:1388:LEU:HD21	1.61	0.83
1:A:264:ILE:HD11	7:G:259:VAL:HG23	1.61	0.83
7:G:186:VAL:HG21	7:G:400:VAL:CG2	2.08	0.83
6:N:56:THR:HB	6:N:390:GLN:NE2	1.94	0.83
6:N:382:GLY:HA3	6:N:388:LEU:HD21	1.61	0.83
6:f:1056:THR:HB	6:f:1390:GLN:NE2	1.94	0.83
2:j:1263:LYS:NZ	3:k:1266:GLU:CG	2.41	0.83
6:n:1151:LEU:HD13	6:n:1175:THR:HG21	0.86	0.83
6:N:35:THR:HG22	6:N:42:THR:O	1.78	0.83
3:c:1301:VAL:HG23	3:c:1305:ALA:CB	2.04	0.83
4:d:1151:VAL:HG22	4:d:1175:VAL:HG21	1.59	0.83
7:g:1186:VAL:HG21	7:g:1400:VAL:CG2	2.08	0.83
7:g:1189:LEU:HA	7:g:1190:ASP:HB3	0.83	0.83
3:K:430:LYS:O	3:K:433:GLN:HG3	1.78	0.83
6:N:539:SER:CB	6:N:542:LYS:HD2	2.09	0.83
2:b:1263:LYS:NZ	3:c:1266:GLU:HB3	1.94	0.83
4:d:1099:LEU:O	4:d:1103:LEU:HB2	1.79	0.83
6:f:1424:ARG:HG2	6:f:1483:SER:HA	1.60	0.83
7:g:1109:MET:CG	7:g:1514:THR:HG22	2.08	0.83
1:i:1093:GLU:C	1:i:1094:ILE:HD12	2.03	0.83
7:G:186:VAL:HG21	7:G:400:VAL:HG21	1.59	0.83
7:O:175:ALA:O	7:O:179:VAL:HG23	1.79	0.83
3:c:1430:LYS:O	3:c:1433:GLN:HG3	1.79	0.83
6:f:1430:ASN:O	6:f:1433:LYS:N	2.12	0.83
2:j:1088:VAL:HG13	2:j:1393:GLN:HE22	1.43	0.83
6:n:1075:LEU:HD13	6:n:1527:LEU:HD21	1.59	0.83
2:b:1176:LEU:HD23	2:b:1208:LEU:HB2	1.60	0.83
2:B:37:LEU:HA	9:B:601:ADP:H5'1	1.61	0.83
6:F:243:GLU:OE2	6:F:243:GLU:HA	1.76	0.83
6:F:415:ALA:HB2	6:F:506:ILE:HG21	1.58	0.83
5:M:84:THR:HG22	5:M:86:ASP:H	1.42	0.83
7:O:126:MET:HE2	7:O:126:MET:HA	1.60	0.83
7:O:189:LEU:HA	7:O:190:ASP:HB3	0.83	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1185:ASN:CB	4:d:1186:SER:HB2	2.08	0.83
6:n:1539:SER:CB	6:n:1542:LYS:HD2	2.09	0.83
4:D:521:ILE:CD1	7:G:62:ILE:CD1	2.50	0.82
7:G:175:ALA:O	7:G:179:VAL:HG23	1.79	0.82
1:a:1093:GLU:C	1:a:1094:ILE:HD12	2.03	0.82
2:j:1004:GLN:C	2:j:1005:ILE:HG23	2.02	0.82
2:J:211:GLY:HA3	2:J:355:LYS:O	1.77	0.82
5:M:173:ASP:HB3	5:M:437:SER:HB2	1.60	0.82
6:n:1003:LEU:N	6:n:1004:GLN:CB	2.41	0.82
6:n:1035:THR:HG22	6:n:1042:THR:O	1.78	0.82
6:n:1056:THR:HB	6:n:1390:GLN:NE2	1.94	0.82
5:e:1173:ASP:HB3	5:e:1437:SER:HB2	1.61	0.82
5:m:1084:THR:HG22	5:m:1086:ASP:H	1.42	0.82
7:o:1191:ARG:CD	7:o:1192:ASN:H	1.92	0.82
1:A:158:ASN:HB3	1:A:516:GLY:O	1.77	0.82
6:F:382:GLY:HA3	6:F:388:LEU:HD21	1.61	0.82
7:G:126:MET:HE2	7:G:126:MET:HA	1.60	0.82
3:K:306:GLN:HA	3:K:316:VAL:HG11	1.62	0.82
4:L:185:ASN:CB	4:L:186:SER:HB2	2.08	0.82
2:j:1176:LEU:HD23	2:j:1208:LEU:HB2	1.60	0.82
4:l:1134:ILE:HD11	4:l:1424:ARG:CD	2.09	0.82
6:F:56:THR:HB	6:F:390:GLN:NE2	1.94	0.82
1:I:93:GLU:C	1:I:94:ILE:HD12	2.03	0.82
2:J:4:GLN:CA	2:J:5:ILE:CB	2.57	0.82
6:n:1003:LEU:HA	6:n:1005:LEU:HG	1.60	0.82
2:B:4:GLN:CA	2:B:5:ILE:CG2	2.57	0.82
4:D:99:LEU:O	4:D:103:LEU:HB2	1.79	0.82
6:F:3:LEU:HA	6:F:5:LEU:HG	1.60	0.82
2:J:4:GLN:CA	2:J:5:ILE:CG2	2.57	0.82
2:J:88:VAL:HG13	2:J:393:GLN:HE22	1.43	0.82
2:J:176:LEU:HD23	2:J:208:LEU:HB2	1.60	0.82
2:b:1361:ALA:H	2:b:1362:GLY:HA2	1.01	0.82
7:g:1175:ALA:O	7:g:1179:VAL:HG23	1.78	0.82
7:g:1191:ARG:CD	7:g:1192:ASN:H	1.92	0.82
2:B:361:ALA:H	2:B:362:GLY:HA2	1.01	0.82
2:J:320:VAL:HG21	2:J:337:LEU:CB	2.09	0.82
1:a:1517:VAL:O	1:a:1518:LEU:CG	2.28	0.82
2:j:1004:GLN:CA	2:j:1005:ILE:CG2	2.57	0.82
2:j:1072:PRO:CB	3:k:1047:MET:HE1	2.09	0.82
4:l:1099:LEU:O	4:l:1103:LEU:HB2	1.79	0.82
6:n:1424:ARG:HG2	6:n:1483:SER:HA	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1094:VAL:HG21	7:o:1502:VAL:CG2	2.06	0.82
1:A:93:GLU:C	1:A:94:ILE:HD12	2.03	0.82
3:C:306:GLN:HA	3:C:316:VAL:HG11	1.62	0.82
3:C:493:ASP:HB3	3:C:495:VAL:HG12	1.62	0.82
4:D:134:ILE:HD11	4:D:424:ARG:CD	2.09	0.82
4:D:151:VAL:HG22	4:D:175:VAL:HG21	1.58	0.82
4:D:521:ILE:HG23	7:G:51:ILE:HA	1.61	0.82
1:I:12:THR:HG21	5:M:97:ASP:H	1.45	0.82
7:O:186:VAL:HG21	7:O:400:VAL:HG21	1.59	0.82
6:f:1382:GLY:HA3	6:f:1388:LEU:HD21	1.61	0.82
7:o:1189:LEU:HA	7:o:1190:ASP:HB3	0.83	0.82
3:C:430:LYS:O	3:C:433:GLN:HG3	1.79	0.82
7:G:189:LEU:HA	7:G:190:ASP:HB3	0.83	0.82
3:c:1493:ASP:HB3	3:c:1495:VAL:HG12	1.62	0.82
5:e:1033:LYS:HE2	6:n:1117:ILE:HG12	1.61	0.82
5:e:1355:ALA:HB3	6:f:1222:PRO:HG2	1.62	0.82
6:f:1430:ASN:CA	6:f:1433:LYS:HG2	2.00	0.82
2:j:1361:ALA:H	2:j:1362:GLY:HA2	1.01	0.82
6:n:1478:ASP:O	6:n:1482:ASP:HB3	1.80	0.82
7:o:1175:ALA:O	7:o:1179:VAL:HG23	1.78	0.82
7:o:1186:VAL:HG21	7:o:1400:VAL:HG21	1.59	0.82
4:D:521:ILE:HG23	7:G:50:ASP:O	1.80	0.82
5:e:1166:ASP:CB	5:e:1167:ASP:HB2	2.10	0.82
6:f:1539:SER:CB	6:f:1542:LYS:HD2	2.09	0.82
7:g:1126:MET:HE2	7:g:1126:MET:HA	1.60	0.82
7:G:191:ARG:CD	7:G:192:ASN:H	1.92	0.81
8:H:74:GLU:OE1	8:H:74:GLU:HA	1.78	0.81
7:O:191:ARG:CD	7:O:192:ASN:H	1.92	0.81
6:n:1143:LEU:HA	6:n:1145:ASN:N	1.95	0.81
6:n:1430:ASN:O	6:n:1433:LYS:N	2.12	0.81
4:D:246:PRO:HB2	4:D:250:ASN:OD1	1.80	0.81
6:F:430:ASN:O	6:F:433:LYS:N	2.12	0.81
2:J:249:LYS:O	6:N:250:GLY:N	2.12	0.81
2:J:361:ALA:H	2:J:362:GLY:CA	1.86	0.81
1:a:1123:THR:HG21	5:e:1068:ARG:HE	1.46	0.81
4:d:1246:PRO:HB2	4:d:1250:ASN:OD1	1.80	0.81
2:j:1320:VAL:HG21	2:j:1337:LEU:CB	2.09	0.81
2:B:4:GLN:N	2:B:5:ILE:HG23	1.96	0.81
6:F:424:ARG:HG2	6:F:483:SER:HA	1.60	0.81
6:F:478:ASP:O	6:F:482:ASP:HB3	1.80	0.81
7:G:94:VAL:HG21	7:G:502:VAL:CG2	2.06	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:506:LYS:HA	3:K:506:LYS:HE2	1.63	0.81
4:L:134:ILE:HD11	4:L:424:ARG:CD	2.09	0.81
5:M:166:ASP:CB	5:M:167:ASP:HB2	2.11	0.81
8:P:74:GLU:OE1	8:P:74:GLU:HA	1.79	0.81
2:b:1004:GLN:CA	2:b:1005:ILE:CG2	2.57	0.81
4:d:1134:ILE:HD11	4:d:1424:ARG:CD	2.09	0.81
5:e:1401:THR:O	5:e:1402:LYS:HG3	1.81	0.81
6:f:1003:LEU:HA	6:f:1005:LEU:HG	1.60	0.81
6:f:1195:GLU:HG2	6:f:1197:MET:SD	2.21	0.81
2:j:1361:ALA:H	2:j:1362:GLY:CA	1.86	0.81
4:l:1246:PRO:HB2	4:l:1250:ASN:OD1	1.80	0.81
6:F:143:LEU:HA	6:F:145:ASN:N	1.95	0.81
5:M:368:ASP:O	5:M:370:SER:N	2.13	0.81
6:N:430:ASN:O	6:N:433:LYS:N	2.12	0.81
7:g:1145:VAL:O	7:g:1408:LEU:HA	1.80	0.81
1:i:1224:LEU:CD1	1:i:1226:CYS:HB2	2.11	0.81
5:m:1401:THR:O	5:m:1402:LYS:HG3	1.81	0.81
7:o:1126:MET:HE2	7:o:1126:MET:HA	1.60	0.81
7:o:1188:SER:O	7:o:1190:ASP:CB	2.28	0.81
5:E:173:ASP:HB3	5:E:437:SER:HB2	1.60	0.81
2:J:426:LYS:O	2:J:429:ALA:HB3	1.81	0.81
6:N:3:LEU:HA	6:N:5:LEU:HG	1.60	0.81
8:P:206:SER:CB	8:P:381:THR:HG22	2.11	0.81
2:b:1004:GLN:N	2:b:1005:ILE:HG23	1.96	0.81
2:b:1426:LYS:O	2:b:1429:ALA:HB3	1.81	0.81
6:f:1541:LEU:HD22	6:f:1541:LEU:N	1.95	0.81
7:g:1248:LEU:CB	7:g:1299:ILE:HD12	2.11	0.81
8:h:1074:GLU:OE1	8:h:1074:GLU:HA	1.78	0.81
4:l:1336:ILE:HG22	4:l:1336:ILE:O	1.81	0.81
5:m:1173:ASP:HB3	5:m:1437:SER:HB2	1.60	0.81
6:n:1002:SER:HA	6:n:1003:LEU:HB2	1.63	0.81
6:n:1005:LEU:HA	6:n:1006:LEU:HB2	1.62	0.81
8:p:1360:THR:HG22	8:p:1369:THR:HG22	1.63	0.81
2:B:4:GLN:HA	2:B:5:ILE:CG2	2.11	0.81
2:B:426:LYS:O	2:B:429:ALA:HB3	1.81	0.81
5:E:166:ASP:CB	5:E:167:ASP:HB2	2.10	0.81
5:E:401:THR:O	5:E:402:LYS:HG3	1.81	0.81
6:F:5:LEU:HA	6:F:6:LEU:HB2	1.62	0.81
7:G:145:VAL:O	7:G:408:LEU:HA	1.80	0.81
7:G:171:ILE:HG23	7:G:178:PHE:CD2	2.16	0.81
2:J:4:GLN:N	2:J:5:ILE:HG23	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:2:SER:HA	6:N:3:LEU:HB2	1.63	0.81
1:a:1012:THR:HG21	5:e:1097:ASP:H	1.46	0.81
7:g:1188:SER:O	7:g:1190:ASP:CB	2.28	0.81
8:h:1206:SER:CB	8:h:1381:THR:HG22	2.11	0.81
7:o:1232:GLN:CG	7:o:1313:PHE:HA	2.10	0.81
4:D:499:GLN:HE22	9:D:601:ADP:H2'	1.45	0.81
3:K:41:PRO:HA	3:K:161:THR:HG22	1.63	0.81
3:K:493:ASP:HB3	3:K:495:VAL:HG12	1.62	0.81
4:L:99:LEU:O	4:L:103:LEU:HB2	1.79	0.81
5:M:401:THR:O	5:M:402:LYS:HG3	1.81	0.81
6:N:541:LEU:HD22	6:N:541:LEU:N	1.95	0.81
4:d:1254:VAL:CG2	8:h:1265:VAL:HA	2.11	0.81
7:o:1145:VAL:O	7:o:1408:LEU:HA	1.81	0.81
6:N:452:LEU:O	6:N:455:PRO:HD2	1.80	0.81
7:O:120:ILE:H	7:O:120:ILE:HD13	1.46	0.81
4:d:1336:ILE:HG22	4:d:1336:ILE:O	1.81	0.81
1:i:1517:VAL:O	1:i:1518:LEU:CG	2.28	0.81
2:j:1475:ASN:H	2:j:1475:ASN:HD22	1.28	0.81
2:J:4:GLN:HA	2:J:5:ILE:CG2	2.11	0.81
2:J:263:LYS:HZ3	3:K:266:GLU:HB3	1.43	0.81
3:K:56:VAL:C	3:K:57:LEU:HD23	2.06	0.81
7:O:171:ILE:HG23	7:O:178:PHE:CD2	2.16	0.81
8:P:360:THR:HG22	8:P:369:THR:HG22	1.63	0.81
5:m:1368:ASP:O	5:m:1370:SER:N	2.13	0.81
6:n:1215:LEU:HB3	6:n:1217:HIS:HD2	1.46	0.81
6:n:1541:LEU:HD22	6:n:1541:LEU:N	1.95	0.81
6:n:1541:LEU:HB3	6:n:1542:LYS:HA	1.56	0.81
2:B:4:GLN:CA	2:B:5:ILE:CB	2.58	0.81
5:E:368:ASP:O	5:E:370:SER:N	2.13	0.81
7:G:232:GLN:CG	7:G:313:PHE:HA	2.10	0.81
2:b:1242:LYS:HB2	3:c:1269:TRP:HZ2	1.45	0.81
3:c:1506:LYS:HE2	3:c:1506:LYS:HA	1.63	0.81
6:f:1452:LEU:O	6:f:1455:PRO:HD2	1.80	0.81
2:j:1165:ILE:HG12	6:n:1529:LEU:HD13	1.62	0.81
2:B:176:LEU:HD23	2:B:208:LEU:HB2	1.60	0.80
4:D:71:LEU:CB	8:P:6:PRO:HB3	2.12	0.80
6:F:195:GLU:HG2	6:F:197:MET:SD	2.21	0.80
7:G:248:LEU:CB	7:G:299:ILE:HD12	2.11	0.80
7:g:1232:GLN:CG	7:g:1313:PHE:HA	2.10	0.80
7:o:1248:LEU:CB	7:o:1299:ILE:HD12	2.11	0.80
1:A:517:VAL:O	1:A:518:LEU:CG	2.28	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:242:LYS:HB2	3:C:269:TRP:HZ2	1.45	0.80
8:H:360:THR:HG22	8:H:369:THR:HG22	1.63	0.80
4:L:246:PRO:HB2	4:L:250:ASN:OD1	1.80	0.80
6:N:143:LEU:HA	6:N:145:ASN:N	1.95	0.80
3:c:1041:PRO:HA	3:c:1161:THR:HG22	1.63	0.80
3:k:1493:ASP:HB3	3:k:1495:VAL:HG12	1.62	0.80
7:o:1120:ILE:HD13	7:o:1120:ILE:H	1.46	0.80
5:E:245:LEU:HD13	5:E:247:LYS:H	1.47	0.80
7:G:412:GLY:O	7:G:491:ASN:ND2	2.14	0.80
1:I:224:LEU:CD1	1:I:226:CYS:HB2	2.11	0.80
1:I:264:ILE:HD11	7:O:259:VAL:HG23	1.62	0.80
3:K:457:ILE:CD1	3:K:467:LEU:HD13	2.11	0.80
6:n:1195:GLU:HG2	6:n:1197:MET:SD	2.21	0.80
6:F:452:LEU:O	6:F:455:PRO:HD2	1.80	0.80
6:F:541:LEU:HD22	6:F:541:LEU:N	1.95	0.80
7:O:145:VAL:O	7:O:408:LEU:HA	1.81	0.80
2:b:1348:LEU:HD21	6:f:1086:ILE:HA	1.60	0.80
3:c:1230:VAL:HG11	3:c:1302:SER:HG	1.40	0.80
6:f:1005:LEU:HA	6:f:1006:LEU:HB2	1.62	0.80
6:f:1143:LEU:HA	6:f:1145:ASN:N	1.95	0.80
2:j:1091:GLY:HA2	11:j:1600:SO4:O2	1.82	0.80
2:j:1426:LYS:O	2:j:1429:ALA:HB3	1.81	0.80
2:j:1469:THR:O	2:j:1470:SER:HB2	1.82	0.80
5:m:1166:ASP:CB	5:m:1167:ASP:HB2	2.10	0.80
7:o:1412:GLY:O	7:o:1491:ASN:ND2	2.14	0.80
4:D:230:GLU:O	4:D:348:ASP:O	2.00	0.80
4:D:521:ILE:CG1	7:G:62:ILE:HD11	2.11	0.80
5:E:401:THR:O	5:E:402:LYS:CG	2.30	0.80
6:F:215:LEU:HB3	6:F:217:HIS:HD2	1.46	0.80
7:G:189:LEU:CA	7:G:190:ASP:HB2	1.94	0.80
4:L:72:HIS:O	4:L:76:ARG:CB	2.30	0.80
2:b:1004:GLN:HA	2:b:1005:ILE:CG2	2.10	0.80
4:d:1230:GLU:O	4:d:1348:ASP:O	2.00	0.80
1:I:517:VAL:O	1:I:518:LEU:CG	2.28	0.80
7:O:248:LEU:CB	7:O:299:ILE:HD12	2.11	0.80
5:e:1245:LEU:HD13	5:e:1247:LYS:H	1.47	0.80
5:e:1401:THR:O	5:e:1402:LYS:CE	2.30	0.80
6:n:1452:LEU:O	6:n:1455:PRO:HD2	1.80	0.80
7:o:1171:ILE:HG23	7:o:1178:PHE:CD2	2.16	0.80
3:C:56:VAL:C	3:C:57:LEU:HD23	2.06	0.80
8:H:206:SER:CB	8:H:381:THR:HG22	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:401:THR:O	5:M:402:LYS:CG	2.30	0.80
5:e:1368:ASP:O	5:e:1370:SER:N	2.13	0.80
6:f:1046:LEU:N	6:f:1054:LYS:O	2.14	0.80
5:m:1401:THR:O	5:m:1402:LYS:CE	2.30	0.80
4:D:323:PHE:HA	4:D:374:THR:HG21	1.64	0.80
2:J:132:LEU:HD21	2:J:495:ARG:HG3	1.64	0.80
2:J:250:PHE:HA	6:N:250:GLY:O	1.81	0.80
3:c:1056:VAL:C	3:c:1057:LEU:HD23	2.06	0.80
3:c:1264:GLU:O	3:c:1265:LYS:CG	2.30	0.80
3:c:1306:GLN:HA	3:c:1316:VAL:HG11	1.62	0.80
4:d:1072:HIS:O	4:d:1076:ARG:CB	2.30	0.80
8:h:1024:ALA:O	8:h:1028:ILE:CG1	2.30	0.80
8:p:1024:ALA:O	8:p:1028:ILE:HG12	1.82	0.80
2:B:233:ILE:O	2:B:325:VAL:HB	1.82	0.80
2:B:361:ALA:H	2:B:362:GLY:CA	1.86	0.80
3:C:506:LYS:HA	3:C:506:LYS:HE2	1.63	0.80
5:E:401:THR:O	5:E:402:LYS:CE	2.30	0.80
4:L:336:ILE:O	4:L:336:ILE:HG22	1.81	0.80
6:N:195:GLU:HG2	6:N:197:MET:SD	2.21	0.80
7:O:232:GLN:CG	7:O:313:PHE:HA	2.10	0.80
1:a:1224:LEU:CD1	1:a:1226:CYS:HB2	2.11	0.80
6:f:1215:LEU:HB3	6:f:1217:HIS:HD2	1.46	0.80
8:h:1024:ALA:O	8:h:1028:ILE:HG12	1.82	0.80
3:k:1041:PRO:HA	3:k:1161:THR:HG22	1.63	0.80
3:k:1082:SER:HB2	3:k:1097:ILE:HD11	1.64	0.80
3:k:1306:GLN:HA	3:k:1316:VAL:HG11	1.62	0.80
8:p:1206:SER:CB	8:p:1381:THR:HG22	2.11	0.80
1:A:224:LEU:CD1	1:A:226:CYS:HB2	2.11	0.80
6:N:5:LEU:HA	6:N:6:LEU:HB2	1.62	0.80
4:d:1323:PHE:HA	4:d:1374:THR:HG21	1.64	0.80
6:f:1276:LYS:O	6:f:1279:ASP:CB	2.30	0.80
7:g:1171:ILE:HG23	7:g:1178:PHE:CD2	2.16	0.80
7:g:1412:GLY:O	7:g:1491:ASN:ND2	2.14	0.80
8:h:1360:THR:HG22	8:h:1369:THR:HG22	1.63	0.80
4:D:72:HIS:O	4:D:76:ARG:CB	2.30	0.79
6:F:2:SER:HA	6:F:3:LEU:HB2	1.63	0.79
6:F:276:LYS:O	6:F:279:ASP:CB	2.30	0.79
7:G:191:ARG:NE	7:G:192:ASN:N	2.30	0.79
2:b:1361:ALA:H	2:b:1362:GLY:CA	1.86	0.79
6:f:1002:SER:HA	6:f:1003:LEU:HB2	1.63	0.79
2:j:1132:LEU:HD21	2:j:1495:ARG:HG3	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:191:ARG:NE	7:O:192:ASN:N	2.30	0.79
7:O:412:GLY:O	7:O:491:ASN:ND2	2.14	0.79
8:P:24:ALA:O	8:P:28:ILE:CG1	2.30	0.79
5:e:1401:THR:O	5:e:1402:LYS:CG	2.30	0.79
2:j:1004:GLN:N	2:j:1005:ILE:HG23	1.96	0.79
3:k:1506:LYS:HE2	3:k:1506:LYS:HA	1.63	0.79
4:l:1072:HIS:O	4:l:1076:ARG:CB	2.30	0.79
5:m:1401:THR:O	5:m:1402:LYS:CG	2.30	0.79
1:A:9:ARG:CB	1:A:10:SER:O	2.30	0.79
7:G:191:ARG:HE	7:G:191:ARG:CA	1.94	0.79
8:H:24:ALA:O	8:H:28:ILE:HG12	1.82	0.79
6:N:46:LEU:N	6:N:54:LYS:O	2.14	0.79
6:N:276:LYS:O	6:N:279:ASP:CB	2.30	0.79
2:j:1233:ILE:O	2:j:1325:VAL:HB	1.82	0.79
3:C:82:SER:HB2	3:C:97:ILE:HD11	1.64	0.79
7:G:188:SER:O	7:G:190:ASP:CB	2.28	0.79
8:H:49:CYS:O	8:H:466:THR:HB	1.83	0.79
5:M:509:ASN:HB3	5:M:521:ASP:HB3	1.64	0.79
2:b:1003:VAL:O	2:b:1005:ILE:CD1	2.30	0.79
2:b:1003:VAL:O	2:b:1005:ILE:CG2	2.30	0.79
5:e:1253:GLN:CA	5:e:1254:MET:CB	2.61	0.79
7:g:1125:ILE:HA	7:g:1438:ILE:HG12	1.65	0.79
4:l:1230:GLU:O	4:l:1348:ASP:O	2.00	0.79
5:m:1509:ASN:HB3	5:m:1521:ASP:HB3	1.64	0.79
6:n:1276:LYS:O	6:n:1279:ASP:CB	2.30	0.79
3:K:264:GLU:O	3:K:265:LYS:CG	2.30	0.79
6:N:215:LEU:HB3	6:N:217:HIS:HD2	1.46	0.79
1:a:1009:ARG:CB	1:a:1010:SER:O	2.30	0.79
1:a:1180:VAL:HG13	1:a:1406:LEU:HD23	1.63	0.79
1:I:180:VAL:HG13	1:I:406:LEU:HD23	1.63	0.79
8:P:49:CYS:O	8:P:466:THR:HB	1.82	0.79
6:f:1433:LYS:CG	6:f:1444:ILE:HG21	2.13	0.79
3:k:1056:VAL:C	3:k:1057:LEU:HD23	2.06	0.79
2:B:3:VAL:O	2:B:5:ILE:CD1	2.30	0.79
2:B:475:ASN:H	2:B:475:ASN:HD22	1.28	0.79
8:H:24:ALA:O	8:H:28:ILE:CG1	2.30	0.79
3:K:82:SER:HB2	3:K:97:ILE:HD11	1.64	0.79
4:L:230:GLU:O	4:L:348:ASP:O	2.00	0.79
4:L:250:ASN:HA	7:O:259:VAL:CG1	2.12	0.79
6:N:478:ASP:O	6:N:482:ASP:HB3	1.80	0.79
2:j:1004:GLN:HA	2:j:1005:ILE:CG2	2.10	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1208:LEU:HD12	2:j:1209:ASP:H	1.48	0.79
5:m:1245:LEU:HD13	5:m:1247:LYS:H	1.47	0.79
6:n:1433:LYS:CG	6:n:1444:ILE:HG21	2.13	0.79
8:p:1049:CYS:O	8:p:1466:THR:HB	1.82	0.79
6:F:433:LYS:CG	6:F:444:ILE:HG21	2.13	0.79
7:G:120:ILE:H	7:G:120:ILE:HD13	1.46	0.79
2:J:3:VAL:O	2:J:5:ILE:CG2	2.30	0.79
2:J:233:ILE:O	2:J:325:VAL:HB	1.82	0.79
2:J:475:ASN:H	2:J:475:ASN:HD22	1.28	0.79
7:O:191:ARG:HE	7:O:191:ARG:CA	1.94	0.79
7:O:455:GLU:HG3	7:O:461:ALA:CB	2.13	0.79
2:b:1469:THR:O	2:b:1470:SER:HB2	1.82	0.79
1:i:1009:ARG:CB	1:i:1010:SER:O	2.30	0.79
1:i:1180:VAL:HG13	1:i:1406:LEU:HD23	1.63	0.79
2:j:1003:VAL:O	2:j:1005:ILE:CG2	2.30	0.79
1:A:180:VAL:HG13	1:A:406:LEU:HD23	1.63	0.79
2:B:3:VAL:O	2:B:5:ILE:CG2	2.30	0.79
2:B:132:LEU:HD21	2:B:495:ARG:HG3	1.64	0.79
2:B:206:SER:HB3	2:B:368:VAL:HG13	1.65	0.79
4:D:524:ILE:HG23	7:G:52:LEU:O	1.82	0.79
2:J:37:LEU:HA	9:J:601:ADP:H5'1	1.65	0.79
7:O:125:ILE:HA	7:O:438:ILE:HG12	1.65	0.79
2:b:1475:ASN:H	2:b:1475:ASN:HD22	1.28	0.79
8:h:1345:GLY:C	8:h:1347:PRO:HD3	2.08	0.79
6:n:1331:VAL:HG12	6:n:1332:THR:HG23	1.65	0.79
7:o:1455:GLU:HG3	7:o:1461:ALA:CB	2.13	0.79
1:A:123:THR:HG21	5:E:68:ARG:HE	1.46	0.79
2:B:70:ASP:HB2	6:F:5:LEU:HD22	1.65	0.79
3:C:41:PRO:HA	3:C:161:THR:HG22	1.63	0.79
3:C:457:ILE:CD1	3:C:467:LEU:HD13	2.11	0.79
6:F:117:ILE:HD12	5:M:34:ASP:O	1.81	0.79
5:M:245:LEU:HD13	5:M:247:LYS:H	1.47	0.79
5:M:253:GLN:CA	5:M:254:MET:CB	2.61	0.79
6:N:53:ILE:O	6:N:53:ILE:CD1	2.30	0.79
6:N:501:PRO:HB3	6:N:506:ILE:CB	2.11	0.79
7:O:378:LEU:HD11	7:O:393:LEU:HD12	1.65	0.79
2:b:1233:ILE:O	2:b:1325:VAL:HB	1.82	0.79
7:g:1030:ILE:HD12	7:g:1109:MET:HB3	1.65	0.79
5:m:1253:GLN:CA	5:m:1254:MET:CB	2.61	0.79
7:o:1191:ARG:NE	7:o:1191:ARG:CA	2.46	0.79
2:B:3:VAL:O	2:B:5:ILE:CG1	2.32	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:433:LYS:CG	6:N:444:ILE:HG21	2.13	0.78
8:P:24:ALA:O	8:P:28:ILE:HG12	1.82	0.78
7:g:1120:ILE:HD13	7:g:1120:ILE:H	1.46	0.78
7:g:1378:LEU:HD11	7:g:1393:LEU:HD12	1.65	0.78
7:o:1191:ARG:NE	7:o:1192:ASN:N	2.30	0.78
8:p:1024:ALA:O	8:p:1028:ILE:CG1	2.30	0.78
2:J:3:VAL:O	2:J:5:ILE:CD1	2.30	0.78
7:O:191:ARG:NE	7:O:191:ARG:CA	2.46	0.78
2:b:1132:LEU:HD21	2:b:1495:ARG:HG3	1.64	0.78
4:d:1241:ILE:O	4:d:1299:ASP:HB2	1.83	0.78
7:g:1191:ARG:NE	7:g:1191:ARG:CA	2.46	0.78
2:j:1003:VAL:O	2:j:1005:ILE:CD1	2.30	0.78
4:l:1323:PHE:HA	4:l:1374:THR:HG21	1.64	0.78
4:D:336:ILE:O	4:D:336:ILE:HG22	1.81	0.78
6:F:501:PRO:HB3	6:F:506:ILE:CB	2.12	0.78
2:J:3:VAL:O	2:J:5:ILE:CG1	2.31	0.78
7:O:188:SER:O	7:O:190:ASP:CB	2.28	0.78
7:O:191:ARG:CZ	7:O:192:ASN:H	1.97	0.78
8:P:345:GLY:C	8:P:347:PRO:HD3	2.08	0.78
2:b:1208:LEU:HD12	2:b:1209:ASP:H	1.48	0.78
7:g:1191:ARG:NE	7:g:1192:ASN:N	2.30	0.78
4:l:1521:ILE:CG1	7:o:1062:ILE:HD11	2.13	0.78
1:A:12:THR:HG21	5:E:97:ASP:H	1.47	0.78
4:L:323:PHE:HA	4:L:374:THR:HG21	1.64	0.78
6:N:36:ASN:HA	6:N:57:LYS:HD2	1.66	0.78
3:c:1457:ILE:CD1	3:c:1467:LEU:HD13	2.11	0.78
7:g:1455:GLU:HG3	7:g:1461:ALA:CB	2.13	0.78
8:h:1423:ALA:HA	9:h:1601:ADP:H2'	1.65	0.78
8:H:206:SER:HB2	8:H:381:THR:CG2	2.13	0.78
6:f:1035:THR:CG2	6:f:1042:THR:O	2.32	0.78
6:f:1331:VAL:HG12	6:f:1332:THR:HG23	1.65	0.78
6:f:1478:ASP:O	6:f:1482:ASP:HB3	1.80	0.78
2:j:1263:LYS:NZ	3:k:1266:GLU:HG2	1.99	0.78
5:E:253:GLN:CA	5:E:254:MET:CB	2.61	0.78
5:e:1509:ASN:HB3	5:e:1521:ASP:HB3	1.64	0.78
4:l:1292:ILE:N	4:l:1293:LEU:HA	1.98	0.78
7:o:1030:ILE:HD12	7:o:1109:MET:HB3	1.65	0.78
5:E:166:ASP:HB3	5:E:167:ASP:HB2	1.66	0.78
7:G:191:ARG:NE	7:G:191:ARG:CA	2.46	0.78
1:I:9:ARG:CB	1:I:10:SER:O	2.30	0.78
2:J:329:PHE:O	2:J:329:PHE:HD2	1.67	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:469:THR:O	2:J:470:SER:HB2	1.82	0.78
5:M:401:THR:O	5:M:402:LYS:CE	2.30	0.78
6:N:35:THR:CG2	6:N:42:THR:O	2.32	0.78
3:c:1082:SER:HB2	3:c:1097:ILE:HD11	1.64	0.78
5:E:509:ASN:HB3	5:E:521:ASP:HB3	1.64	0.78
6:F:331:VAL:HG12	6:F:332:THR:HG23	1.65	0.78
6:N:221:HIS:HB2	6:N:224:MET:HG3	1.66	0.78
6:N:331:VAL:HG12	6:N:332:THR:HG23	1.65	0.78
8:h:1049:CYS:O	8:h:1466:THR:HB	1.83	0.78
3:k:1264:GLU:O	3:k:1265:LYS:CG	2.30	0.78
4:D:292:ILE:H	4:D:293:LEU:HA	1.48	0.78
7:G:455:GLU:HG3	7:G:461:ALA:CB	2.13	0.78
8:H:6:PRO:HB3	4:L:71:LEU:CB	2.11	0.78
3:c:1452:ILE:O	3:c:1456:LEU:HB2	1.84	0.78
6:f:1167:THR:HB	6:f:1168:GLU:C	2.09	0.78
6:f:1221:HIS:HB2	6:f:1224:MET:HG3	1.66	0.78
6:f:1501:PRO:HB3	6:f:1506:ILE:CB	2.11	0.78
3:k:1269:TRP:HZ3	6:n:1247:VAL:HB	1.47	0.78
6:n:1221:HIS:HB2	6:n:1224:MET:HG3	1.66	0.78
7:G:212:SER:HB3	7:G:378:LEU:HA	1.66	0.78
8:H:345:GLY:C	8:H:347:PRO:HD3	2.08	0.78
2:J:208:LEU:HD12	2:J:209:ASP:H	1.48	0.78
2:j:1003:VAL:O	2:j:1005:ILE:CG1	2.32	0.78
7:o:1125:ILE:HA	7:o:1438:ILE:HG12	1.65	0.78
4:d:1292:ILE:H	4:d:1293:LEU:HA	1.48	0.77
6:f:1352:GLY:C	6:f:1369:GLU:O	2.27	0.77
6:n:1035:THR:CG2	6:n:1042:THR:O	2.32	0.77
2:B:492:LYS:HE2	2:B:493:LEU:H	1.48	0.77
6:F:36:ASN:HA	6:F:57:LYS:HD2	1.66	0.77
5:e:1073:ILE:HG12	5:e:1083:ILE:HG12	1.66	0.77
2:j:1329:PHE:O	2:j:1329:PHE:HD2	1.67	0.77
4:l:1241:ILE:O	4:l:1299:ASP:HB2	1.83	0.77
4:D:241:ILE:O	4:D:299:ASP:HB2	1.83	0.77
4:L:292:ILE:H	4:L:293:LEU:HA	1.48	0.77
5:M:88:ALA:HB1	5:M:109:LYS:NZ	2.00	0.77
5:M:166:ASP:HB3	5:M:167:ASP:HB2	1.66	0.77
6:N:167:THR:HB	6:N:168:GLU:C	2.09	0.77
2:b:1003:VAL:O	2:b:1005:ILE:CG1	2.32	0.77
4:d:1292:ILE:N	4:d:1293:LEU:HA	1.98	0.77
4:d:1416:ALA:HB3	4:d:1417:PRO:HD3	1.66	0.77
7:g:1212:SER:HB3	7:g:1378:LEU:HA	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:k:1452:ILE:O	3:k:1456:LEU:HB2	1.84	0.77
6:n:1167:THR:HB	6:n:1168:GLU:C	2.09	0.77
6:n:1539:SER:HB3	6:n:1542:LYS:CD	2.15	0.77
6:F:151:LEU:HD12	6:F:175:THR:HG21	1.65	0.77
4:L:241:ILE:O	4:L:299:ASP:HB2	1.83	0.77
4:L:521:ILE:HG23	7:O:51:ILE:HA	1.66	0.77
6:N:395:VAL:O	6:N:399:LEU:HB2	1.85	0.77
2:b:1165:ILE:HG12	6:f:1529:LEU:HD13	1.67	0.77
7:g:1191:ARG:CZ	7:g:1192:ASN:H	1.97	0.77
7:o:1191:ARG:CZ	7:o:1192:ASN:H	1.97	0.77
7:G:191:ARG:CZ	7:G:192:ASN:H	1.97	0.77
7:G:378:LEU:HD11	7:G:393:LEU:HD12	1.65	0.77
2:j:1463:ILE:O	2:j:1467:ILE:N	2.18	0.77
2:j:1492:LYS:HE2	2:j:1493:LEU:H	1.48	0.77
4:l:1416:ALA:HB3	4:l:1417:PRO:HD3	1.66	0.77
3:C:264:GLU:O	3:C:265:LYS:CG	2.30	0.77
6:N:352:GLY:C	6:N:369:GLU:O	2.27	0.77
6:N:539:SER:CB	6:N:542:LYS:CD	2.62	0.77
4:d:1521:ILE:CD1	7:g:1062:ILE:CD1	2.61	0.77
6:f:1036:ASN:HA	6:f:1057:LYS:HD2	1.66	0.77
6:f:1053:ILE:O	6:f:1053:ILE:CD1	2.30	0.77
7:o:1212:SER:HB3	7:o:1378:LEU:HA	1.66	0.77
2:B:208:LEU:HD12	2:B:209:ASP:H	1.48	0.77
2:B:469:THR:O	2:B:470:SER:HB2	1.82	0.77
3:C:42:LYS:O	3:C:459:ASN:HB3	1.85	0.77
3:C:452:ILE:O	3:C:456:LEU:HB2	1.84	0.77
6:F:167:THR:HB	6:F:168:GLU:C	2.09	0.77
1:I:123:THR:HG21	5:M:68:ARG:HE	1.49	0.77
7:O:212:SER:HB3	7:O:378:LEU:HA	1.66	0.77
1:a:1184:LEU:C	1:a:1184:LEU:HD23	2.10	0.77
6:f:1430:ASN:O	6:f:1433:LYS:CB	2.33	0.77
8:h:1237:LYS:HB2	8:h:1314:ASN:HB3	1.65	0.77
3:k:1457:ILE:CD1	3:k:1467:LEU:HD13	2.11	0.77
5:m:1166:ASP:HB3	5:m:1167:ASP:HB2	1.66	0.77
7:o:1378:LEU:HD11	7:o:1393:LEU:HD12	1.65	0.77
8:p:1345:GLY:C	8:p:1347:PRO:HD3	2.08	0.77
2:B:463:ILE:O	2:B:467:ILE:N	2.18	0.77
6:F:352:GLY:C	6:F:369:GLU:O	2.27	0.77
6:F:395:VAL:O	6:F:399:LEU:HB2	1.85	0.77
7:G:125:ILE:HA	7:G:438:ILE:HG12	1.65	0.77
8:P:430:LEU:O	8:P:434:ILE:HG12	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:1449:THR:HG22	5:e:1507:ILE:HB	1.65	0.77
4:l:1184:GLU:CA	4:l:1186:SER:O	2.33	0.77
6:n:1395:VAL:O	6:n:1399:LEU:HB2	1.85	0.77
6:n:1539:SER:CB	6:n:1542:LYS:CD	2.62	0.77
7:o:1513:ALA:O	7:o:1516:LEU:CD1	2.33	0.77
2:B:329:PHE:O	2:B:329:PHE:HD2	1.67	0.77
5:E:449:THR:HG22	5:E:507:ILE:HB	1.65	0.77
6:F:35:THR:CG2	6:F:42:THR:O	2.32	0.77
6:F:420:ILE:HA	6:F:423:SER:HB3	1.67	0.77
7:G:30:ILE:HD12	7:G:109:MET:HB3	1.65	0.77
2:J:492:LYS:HE2	2:J:493:LEU:H	1.48	0.77
3:K:452:ILE:O	3:K:456:LEU:HB2	1.84	0.77
6:N:430:ASN:O	6:N:433:LYS:CB	2.33	0.77
1:i:1017:GLY:HA3	5:m:1095:GLU:OE2	1.85	0.77
4:D:292:ILE:N	4:D:293:LEU:HA	1.98	0.77
6:F:46:LEU:N	6:F:54:LYS:O	2.14	0.77
1:I:184:LEU:O	1:I:184:LEU:HD23	1.85	0.77
1:a:1184:LEU:HD23	1:a:1184:LEU:O	1.85	0.77
3:k:1301:VAL:HG23	3:k:1305:ALA:HB2	1.65	0.77
5:m:1073:ILE:HG12	5:m:1083:ILE:HG12	1.67	0.77
6:F:221:HIS:HB2	6:F:224:MET:HG3	1.66	0.76
7:G:513:ALA:O	7:G:516:LEU:CD1	2.33	0.76
4:L:416:ALA:HB3	4:L:417:PRO:HD3	1.66	0.76
6:f:1159:LEU:HA	6:f:1164:ALA:HB2	1.66	0.76
6:f:1420:ILE:HA	6:f:1423:SER:HB3	1.67	0.76
5:m:1449:THR:HG22	5:m:1507:ILE:HB	1.65	0.76
6:n:1159:LEU:HA	6:n:1164:ALA:HB2	1.66	0.76
2:B:70:ASP:CB	6:F:5:LEU:HD22	2.15	0.76
4:D:416:ALA:HB3	4:D:417:PRO:HD3	1.66	0.76
5:E:348:GLY:O	5:E:351:LEU:CD1	2.33	0.76
8:H:430:LEU:O	8:H:434:ILE:HG12	1.84	0.76
4:L:184:GLU:CA	4:L:186:SER:O	2.33	0.76
5:M:509:ASN:OD1	5:M:523:LYS:HB2	1.86	0.76
6:N:420:ILE:HA	6:N:423:SER:HB3	1.67	0.76
8:P:206:SER:HB2	8:P:381:THR:CG2	2.13	0.76
1:a:1350:PHE:HD2	1:a:1351:GLU:N	1.83	0.76
6:f:1526:ASN:HA	6:f:1529:LEU:HD12	1.67	0.76
8:p:1206:SER:HB2	8:p:1381:THR:CG2	2.13	0.76
6:F:539:SER:CB	6:F:542:LYS:CD	2.62	0.76
2:J:412:SER:O	2:J:416:ASP:HB2	1.86	0.76
4:L:292:ILE:N	4:L:293:LEU:HA	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:513:ALA:O	7:O:516:LEU:CD1	2.33	0.76
2:b:1329:PHE:O	2:b:1329:PHE:HD2	1.67	0.76
5:e:1034:ASP:O	6:n:1117:ILE:HD12	1.84	0.76
1:i:1184:LEU:O	1:i:1184:LEU:HD23	1.85	0.76
1:A:431:ILE:HG12	1:A:482:ALA:HB2	1.68	0.76
4:D:334:ALA:HB3	7:G:305:GLN:HB2	1.64	0.76
8:H:237:LYS:HB2	8:H:314:ASN:HB3	1.65	0.76
3:c:1042:LYS:O	3:c:1459:ASN:HB3	1.85	0.76
4:d:1184:GLU:CA	4:d:1186:SER:O	2.33	0.76
8:h:1430:LEU:O	8:h:1434:ILE:HG12	1.84	0.76
2:j:1409:MET:HE2	2:j:1409:MET:HA	1.68	0.76
6:n:1046:LEU:N	6:n:1054:LYS:O	2.14	0.76
6:n:1213:LEU:HD23	6:n:1377:THR:HG23	1.68	0.76
6:n:1352:GLY:C	6:n:1369:GLU:O	2.27	0.76
2:B:412:SER:O	2:B:416:ASP:HB2	1.86	0.76
6:F:430:ASN:O	6:F:433:LYS:CB	2.33	0.76
2:J:463:ILE:O	2:J:467:ILE:N	2.18	0.76
5:M:348:GLY:O	5:M:351:LEU:CD1	2.33	0.76
5:M:449:THR:HG22	5:M:507:ILE:HB	1.65	0.76
6:N:478:ASP:O	6:N:482:ASP:N	2.19	0.76
6:f:1213:LEU:HD23	6:f:1377:THR:HG23	1.68	0.76
2:j:1263:LYS:HZ1	3:k:1266:GLU:CG	1.96	0.76
2:j:1412:SER:O	2:j:1416:ASP:HB2	1.86	0.76
5:m:1348:GLY:O	5:m:1351:LEU:CD1	2.33	0.76
6:n:1159:LEU:HA	6:n:1164:ALA:HB1	1.68	0.76
5:E:509:ASN:OD1	5:E:523:LYS:HB2	1.86	0.76
6:F:526:ASN:HA	6:F:529:LEU:HD12	1.67	0.76
3:K:42:LYS:O	3:K:459:ASN:HB3	1.85	0.76
4:L:36:ARG:HE	4:L:98:ILE:HG23	1.51	0.76
4:L:268:ARG:HA	4:L:271:LEU:HD23	1.68	0.76
2:b:1422:ILE:CG2	2:b:1427:SER:CB	2.63	0.76
2:b:1463:ILE:O	2:b:1467:ILE:N	2.18	0.76
2:b:1492:LYS:HE2	2:b:1493:LEU:H	1.48	0.76
7:g:1238:ASN:N	7:g:1239:PRO:HD3	2.01	0.76
3:k:1042:LYS:O	3:k:1459:ASN:HB3	1.85	0.76
6:n:1053:ILE:O	6:n:1053:ILE:CD1	2.30	0.76
6:n:1478:ASP:O	6:n:1482:ASP:N	2.19	0.76
1:A:169:ILE:HD11	1:A:398:MET:HA	1.68	0.76
1:A:184:LEU:O	1:A:184:LEU:HD23	1.85	0.76
6:F:159:LEU:HA	6:F:164:ALA:HB1	1.68	0.76
7:G:447:GLU:O	7:G:450:PRO:HD2	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:422:ILE:CG2	2:J:427:SER:CB	2.63	0.76
5:M:73:ILE:HG12	5:M:83:ILE:HG12	1.67	0.76
2:b:1473:ASP:OD2	2:b:1476:ASN:O	2.04	0.76
5:e:1088:ALA:HB1	5:e:1109:LYS:NZ	2.00	0.76
6:f:1478:ASP:O	6:f:1482:ASP:N	2.19	0.76
6:f:1539:SER:CB	6:f:1542:LYS:CD	2.62	0.76
1:i:1431:ILE:HG12	1:i:1482:ALA:HB2	1.68	0.76
2:B:201:GLY:H	6:F:86:ILE:HD12	1.49	0.76
2:B:473:ASP:OD2	2:B:476:ASN:O	2.04	0.76
2:J:473:ASP:OD2	2:J:476:ASN:O	2.04	0.76
2:J:493:LEU:HD12	2:J:494:LYS:N	2.01	0.76
7:O:30:ILE:HD12	7:O:109:MET:HB3	1.65	0.76
7:O:471:ALA:O	7:O:475:GLY:HA3	1.85	0.76
8:P:237:LYS:HB2	8:P:314:ASN:HB3	1.65	0.76
1:a:1122:PRO:HG3	5:e:1070:LEU:HD11	1.67	0.76
2:b:1409:MET:HE2	2:b:1409:MET:HA	1.68	0.76
2:b:1493:LEU:HD12	2:b:1494:LYS:N	2.00	0.76
4:d:1036:ARG:HE	4:d:1098:ILE:HG23	1.51	0.76
5:e:1348:GLY:O	5:e:1351:LEU:CD1	2.33	0.76
4:l:1036:ARG:HE	4:l:1098:ILE:HG23	1.51	0.76
7:o:1448:VAL:HG12	7:o:1452:GLN:HE22	1.51	0.76
8:p:1430:LEU:O	8:p:1434:ILE:HG12	1.84	0.76
2:B:422:ILE:CG2	2:B:427:SER:CB	2.63	0.76
5:E:88:ALA:HB1	5:E:109:LYS:NZ	2.00	0.76
1:I:184:LEU:HD23	1:I:184:LEU:C	2.10	0.76
1:I:350:PHE:HD2	1:I:351:GLU:N	1.83	0.76
2:J:409:MET:HE2	2:J:409:MET:HA	1.68	0.76
6:N:159:LEU:HA	6:N:164:ALA:HB1	1.68	0.76
6:N:352:GLY:O	6:N:367:VAL:HG12	1.86	0.76
7:O:447:GLU:O	7:O:450:PRO:HD2	1.86	0.76
7:O:448:VAL:HG12	7:O:452:GLN:HE22	1.51	0.76
7:g:1447:GLU:O	7:g:1450:PRO:HD2	1.86	0.76
1:i:1169:ILE:HD11	1:i:1398:MET:HA	1.68	0.76
2:j:1422:ILE:CG2	2:j:1427:SER:CB	2.63	0.76
2:j:1493:LEU:HD12	2:j:1494:LYS:N	2.00	0.76
6:n:1501:PRO:HB3	6:n:1506:ILE:CB	2.11	0.76
1:A:184:LEU:HD23	1:A:184:LEU:C	2.10	0.76
2:B:72:PRO:HB3	3:C:47:MET:CE	2.13	0.76
6:F:352:GLY:O	6:F:367:VAL:HG12	1.86	0.76
6:N:159:LEU:HA	6:N:164:ALA:HB2	1.66	0.76
2:b:1208:LEU:HD12	2:b:1209:ASP:N	2.01	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1154:ALA:HB2	6:f:1402:VAL:CG2	2.16	0.76
1:i:1350:PHE:HD2	1:i:1351:GLU:N	1.83	0.76
5:m:1088:ALA:HB1	5:m:1109:LYS:NZ	2.00	0.76
6:n:1036:ASN:HA	6:n:1057:LYS:HD2	1.66	0.76
7:o:1447:GLU:O	7:o:1450:PRO:HD2	1.86	0.76
4:D:184:GLU:CA	4:D:186:SER:O	2.33	0.75
2:j:1208:LEU:HD12	2:j:1209:ASP:N	2.01	0.75
2:j:1473:ASP:OD2	2:j:1476:ASN:O	2.04	0.75
8:p:1237:LYS:HB2	8:p:1314:ASN:HB3	1.65	0.75
2:B:72:PRO:HG3	3:C:49:LEU:HD11	1.68	0.75
3:C:129:LEU:HB2	3:C:514:ILE:HD13	1.69	0.75
6:F:213:LEU:HD23	6:F:377:THR:HG23	1.68	0.75
8:H:243:LYS:C	8:H:244:LYS:HG2	2.12	0.75
7:O:238:ASN:N	7:O:239:PRO:HD3	2.01	0.75
5:e:1166:ASP:HB3	5:e:1167:ASP:HB2	1.66	0.75
5:e:1509:ASN:OD1	5:e:1523:LYS:HB2	1.86	0.75
7:g:1044:LEU:HD12	7:g:1452:GLN:HB2	1.68	0.75
7:g:1513:ALA:O	7:g:1516:LEU:CD1	2.33	0.75
4:l:1292:ILE:H	4:l:1293:LEU:HA	1.48	0.75
2:B:409:MET:HE2	2:B:409:MET:HA	1.68	0.75
5:E:73:ILE:HG12	5:E:83:ILE:HG12	1.67	0.75
5:E:187:SER:OG	5:E:429:VAL:HG21	1.86	0.75
6:F:478:ASP:O	6:F:482:ASP:N	2.19	0.75
1:I:350:PHE:C	1:I:351:GLU:OE2	2.30	0.75
1:I:543:THR:HB	5:M:72:LYS:HD3	1.67	0.75
6:N:526:ASN:HA	6:N:529:LEU:HD12	1.68	0.75
8:P:316:TYR:N	8:P:316:TYR:CD2	2.54	0.75
1:a:1350:PHE:C	1:a:1351:GLU:OE2	2.30	0.75
2:b:1232:LEU:HB3	2:b:1283:THR:HG22	1.68	0.75
4:d:1120:ILE:HG12	4:d:1439:ILE:HG21	1.68	0.75
1:i:1456:LEU:O	1:i:1460:LYS:HG2	1.86	0.75
7:o:1044:LEU:HD12	7:o:1452:GLN:HB2	1.68	0.75
1:A:226:CYS:SG	1:A:318:VAL:CG1	2.75	0.75
2:B:208:LEU:HD12	2:B:209:ASP:N	2.01	0.75
2:B:493:LEU:HD12	2:B:494:LYS:N	2.01	0.75
6:F:154:ALA:HB2	6:F:402:VAL:CG2	2.16	0.75
2:J:165:ILE:HG12	6:N:529:LEU:HD13	1.68	0.75
1:a:1221:GLY:HA2	1:a:1382:SER:HB2	1.68	0.75
1:i:1184:LEU:HD23	1:i:1184:LEU:C	2.10	0.75
1:i:1226:CYS:SG	1:i:1318:VAL:CG1	2.75	0.75
1:i:1350:PHE:C	1:i:1351:GLU:OE2	2.30	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:k:1129:LEU:HB2	3:k:1514:ILE:HD13	1.69	0.75
4:l:1336:ILE:O	4:l:1336:ILE:CG2	2.35	0.75
6:n:1043:LEU:HD21	6:n:1161:LYS:HA	1.68	0.75
7:o:1238:ASN:N	7:o:1239:PRO:HD3	2.01	0.75
1:A:221:GLY:HA2	1:A:382:SER:HB2	1.68	0.75
7:G:238:ASN:N	7:G:239:PRO:HD3	2.01	0.75
1:a:1226:CYS:SG	1:a:1318:VAL:CG1	2.75	0.75
5:e:1492:ILE:HD12	5:e:1492:ILE:H	1.52	0.75
6:f:1395:VAL:O	6:f:1399:LEU:HB2	1.85	0.75
7:g:1448:VAL:HG12	7:g:1452:GLN:HE22	1.51	0.75
5:m:1509:ASN:OD1	5:m:1523:LYS:HB2	1.86	0.75
6:n:1003:LEU:HD12	6:n:1005:LEU:CD2	2.17	0.75
2:J:208:LEU:HD12	2:J:209:ASP:N	2.01	0.75
3:K:104:LEU:HD11	3:K:520:LEU:HD12	1.69	0.75
8:P:72:LEU:HD13	8:P:86:VAL:HG22	1.69	0.75
8:P:243:LYS:C	8:P:244:LYS:HG2	2.12	0.75
3:c:1129:LEU:HB2	3:c:1514:ILE:HD13	1.69	0.75
7:g:1471:ALA:O	7:g:1475:GLY:HA3	1.85	0.75
5:m:1492:ILE:H	5:m:1492:ILE:HD12	1.52	0.75
6:n:1209:PHE:HE2	6:n:1376:CYS:SG	2.10	0.75
8:p:1243:LYS:C	8:p:1244:LYS:HG2	2.12	0.75
1:A:8:SER:N	2:J:21:SER:HG	1.84	0.75
1:A:456:LEU:O	1:A:460:LYS:HG2	1.86	0.75
4:D:36:ARG:HE	4:D:98:ILE:HG23	1.51	0.75
5:E:39:LYS:HZ3	6:N:109:ILE:HG13	1.51	0.75
7:G:448:VAL:HG12	7:G:452:GLN:HE22	1.51	0.75
3:K:129:LEU:HB2	3:K:514:ILE:HD13	1.69	0.75
3:K:184:LYS:HE3	3:K:407:MET:HE2	1.69	0.75
6:N:154:ALA:HB2	6:N:402:VAL:CG2	2.16	0.75
6:f:1013:LEU:HD13	6:f:1021:VAL:HG21	1.69	0.75
6:f:1406:LEU:HB3	6:f:1407:LYS:HZ2	1.50	0.75
8:h:1206:SER:HB2	8:h:1381:THR:CG2	2.13	0.75
8:h:1243:LYS:C	8:h:1244:LYS:HG2	2.12	0.75
6:F:53:ILE:O	6:F:53:ILE:CD1	2.30	0.75
6:F:465:ASP:HA	6:F:466:PRO:O	1.86	0.75
6:f:1003:LEU:HD12	6:f:1005:LEU:CD2	2.17	0.75
7:g:1330:VAL:HG12	7:g:1347:GLY:HA3	1.69	0.75
8:h:1204:VAL:CG1	8:h:1405:VAL:HG12	2.16	0.75
3:k:1306:GLN:O	3:k:1310:LEU:HG	1.87	0.75
6:n:1526:ASN:HA	6:n:1529:LEU:HD12	1.68	0.75
6:F:159:LEU:HA	6:F:164:ALA:HB2	1.66	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:377:LEU:H	7:G:377:LEU:HD13	1.51	0.75
1:I:431:ILE:HG12	1:I:482:ALA:HB2	1.68	0.75
2:J:295:GLU:C	6:N:337:GLN:HE22	1.94	0.75
1:a:1456:LEU:O	1:a:1460:LYS:HG2	1.86	0.75
6:f:1434:LEU:O	6:f:1437:LYS:C	2.30	0.75
6:n:1420:ILE:HA	6:n:1423:SER:HB3	1.67	0.75
1:A:543:THR:HB	5:E:72:LYS:HD3	1.67	0.74
2:B:295:GLU:HB2	6:F:337:GLN:NE2	2.02	0.74
7:G:33:CYS:SG	7:G:83:LEU:HD11	2.27	0.74
3:K:306:GLN:O	3:K:310:LEU:HG	1.87	0.74
5:M:492:ILE:H	5:M:492:ILE:HD12	1.52	0.74
6:N:13:LEU:HD13	6:N:21:VAL:HG21	1.69	0.74
6:N:395:VAL:O	6:N:399:LEU:CB	2.35	0.74
7:O:413:GLY:HA3	7:O:491:ASN:HD21	1.52	0.74
1:a:1543:THR:HB	5:e:1072:LYS:HD3	1.68	0.74
2:b:1031:ASP:C	2:b:1031:ASP:OD1	2.30	0.74
3:c:1104:LEU:HD11	3:c:1520:LEU:HD12	1.69	0.74
4:d:1336:ILE:O	4:d:1336:ILE:CG2	2.35	0.74
5:e:1187:SER:OG	5:e:1429:VAL:HG21	1.86	0.74
4:l:1268:ARG:HA	4:l:1271:LEU:HD23	1.68	0.74
7:o:1377:LEU:H	7:o:1377:LEU:HD13	1.51	0.74
1:A:350:PHE:C	1:A:351:GLU:OE2	2.30	0.74
3:C:306:GLN:O	3:C:310:LEU:HG	1.87	0.74
4:D:268:ARG:HA	4:D:271:LEU:HD23	1.68	0.74
6:F:117:ILE:HD12	5:M:34:ASP:HA	1.64	0.74
7:G:471:ALA:O	7:G:475:GLY:HA3	1.85	0.74
1:I:115:LEU:HD21	1:I:446:LEU:HD22	1.69	0.74
1:I:221:GLY:HA2	1:I:382:SER:HB2	1.68	0.74
1:I:226:CYS:SG	1:I:318:VAL:CG1	2.75	0.74
7:O:488:ILE:HD12	7:O:488:ILE:H	1.52	0.74
8:P:114:SER:O	8:P:118:ILE:HG13	1.87	0.74
1:a:1063:THR:HG22	1:a:1065:ASP:H	1.52	0.74
2:b:1263:LYS:HZ3	3:c:1266:GLU:HB3	1.52	0.74
8:h:1072:LEU:HD13	8:h:1086:VAL:HG22	1.69	0.74
2:j:1242:LYS:HE2	2:j:1246:PHE:HA	1.69	0.74
3:k:1184:LYS:HE3	3:k:1407:MET:HE2	1.69	0.74
8:p:1072:LEU:HD13	8:p:1086:VAL:HG22	1.69	0.74
2:B:3:VAL:C	2:B:5:ILE:CG2	2.61	0.74
2:B:31:ASP:C	2:B:31:ASP:OD1	2.30	0.74
8:H:72:LEU:HD13	8:H:86:VAL:HG22	1.69	0.74
2:J:3:VAL:C	2:J:5:ILE:CG2	2.61	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:204:VAL:CG1	8:P:405:VAL:HG12	2.16	0.74
1:a:1169:ILE:HD11	1:a:1398:MET:HA	1.68	0.74
2:b:1412:SER:O	2:b:1416:ASP:HB2	1.86	0.74
3:c:1306:GLN:O	3:c:1310:LEU:HG	1.87	0.74
3:k:1269:TRP:CZ3	6:n:1247:VAL:HB	2.21	0.74
4:l:1334:ALA:HB3	7:o:1305:GLN:HB2	1.67	0.74
1:A:350:PHE:HD2	1:A:351:GLU:N	1.83	0.74
1:A:357:LEU:HB2	1:A:378:SER:HB3	1.69	0.74
3:C:104:LEU:HD11	3:C:520:LEU:HD12	1.69	0.74
3:C:184:LYS:HE3	3:C:407:MET:HE2	1.69	0.74
4:D:119:ILE:HG23	4:D:436:GLN:HA	1.68	0.74
2:J:31:ASP:C	2:J:31:ASP:OD1	2.30	0.74
5:M:187:SER:OG	5:M:429:VAL:HG21	1.86	0.74
6:N:434:LEU:O	6:N:437:LYS:C	2.30	0.74
2:b:1003:VAL:C	2:b:1005:ILE:CG2	2.61	0.74
2:b:1451:ASP:O	2:b:1455:LEU:HB2	1.87	0.74
6:f:1155:ARG:CB	6:f:1171:THR:CG2	2.66	0.74
6:n:1154:ALA:HB2	6:n:1402:VAL:CG2	2.16	0.74
8:p:1204:VAL:CG1	8:p:1405:VAL:HG12	2.16	0.74
6:F:43:LEU:HD21	6:F:161:LYS:HA	1.68	0.74
4:L:25:ILE:HD13	4:L:108:GLU:HB2	1.70	0.74
5:M:35:GLN:CD	5:M:36:GLY:HA3	2.13	0.74
4:d:1268:ARG:HA	4:d:1271:LEU:HD23	1.68	0.74
6:f:1465:ASP:HA	6:f:1466:PRO:O	1.86	0.74
7:g:1377:LEU:H	7:g:1377:LEU:HD13	1.51	0.74
8:h:1077:ILE:HD13	8:h:1077:ILE:H	1.53	0.74
8:h:1114:SER:O	8:h:1118:ILE:HG13	1.87	0.74
5:m:1355:ALA:HB3	6:n:1222:PRO:HG2	1.69	0.74
6:n:1155:ARG:CB	6:n:1171:THR:CG2	2.66	0.74
7:o:1033:CYS:SG	7:o:1083:LEU:HD11	2.27	0.74
7:o:1471:ALA:O	7:o:1475:GLY:HA3	1.85	0.74
2:B:451:ASP:O	2:B:455:LEU:HB2	1.88	0.74
6:F:3:LEU:HD12	6:F:5:LEU:CD2	2.17	0.74
6:F:395:VAL:O	6:F:399:LEU:CB	2.35	0.74
6:F:434:LEU:O	6:F:437:LYS:C	2.30	0.74
1:a:1115:LEU:HD21	1:a:1446:LEU:HD22	1.69	0.74
1:a:1431:ILE:HG12	1:a:1482:ALA:HB2	1.68	0.74
6:f:1138:ILE:O	6:f:1138:ILE:HG22	1.87	0.74
2:j:1003:VAL:C	2:j:1005:ILE:CG2	2.61	0.74
2:j:1242:LYS:CE	2:j:1247:GLY:N	2.51	0.74
2:B:4:GLN:O	3:C:72:HIS:HB2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:422:ILE:HG22	2:J:427:SER:HB3	1.68	0.74
6:N:201:HIS:HB3	6:N:381:LYS:NZ	2.03	0.74
7:O:33:CYS:SG	7:O:83:LEU:HD11	2.27	0.74
2:b:1422:ILE:HG22	2:b:1427:SER:HB3	1.68	0.74
5:e:1034:ASP:CA	6:n:1117:ILE:HD11	2.02	0.74
6:f:1201:HIS:HB3	6:f:1381:LYS:NZ	2.03	0.74
1:i:1221:GLY:HA2	1:i:1382:SER:HB2	1.68	0.74
1:i:1357:LEU:HB2	1:i:1378:SER:HB3	1.69	0.74
6:n:1166:LEU:O	6:n:1167:THR:CG2	2.33	0.74
6:n:1434:LEU:O	6:n:1437:LYS:C	2.30	0.74
7:o:1191:ARG:HE	7:o:1191:ARG:CA	1.94	0.74
8:p:1234:GLY:HA2	8:p:1310:LEU:HD11	1.69	0.74
7:G:109:MET:SD	7:G:514:THR:CG2	2.76	0.74
7:G:498:GLU:OE2	9:G:601:ADP:H1'	1.88	0.74
8:H:204:VAL:CG1	8:H:405:VAL:HG12	2.16	0.74
5:M:355:ALA:HB3	6:N:222:PRO:HG2	1.68	0.74
2:b:1411:MET:HB2	2:b:1437:LEU:HD13	1.70	0.74
5:e:1035:GLN:CD	5:e:1036:GLY:HA3	2.13	0.74
2:j:1422:ILE:HG22	2:j:1427:SER:HB3	1.68	0.74
7:o:1109:MET:SD	7:o:1514:THR:CG2	2.76	0.74
2:B:242:LYS:HE2	2:B:246:PHE:HA	1.69	0.74
2:B:422:ILE:HG22	2:B:427:SER:HB3	1.68	0.74
7:G:330:VAL:HG12	7:G:347:GLY:HA3	1.69	0.74
1:I:169:ILE:HD11	1:I:398:MET:HA	1.68	0.74
2:J:451:ASP:O	2:J:455:LEU:HB2	1.88	0.74
7:g:1413:GLY:HA3	7:g:1491:ASN:HD21	1.52	0.74
8:h:1063:ILE:HD12	8:h:1074:GLU:HG3	1.70	0.74
2:j:1031:ASP:C	2:j:1031:ASP:OD1	2.30	0.74
2:j:1360:LYS:C	2:j:1362:GLY:HA2	2.12	0.74
6:n:1395:VAL:O	6:n:1399:LEU:CB	2.35	0.74
3:C:329:ALA:O	3:C:333:GLY:N	2.21	0.74
6:F:13:LEU:HD13	6:F:21:VAL:HG21	1.69	0.74
7:G:488:ILE:HD12	7:G:488:ILE:H	1.52	0.74
1:a:1030:VAL:O	1:a:1033:THR:HG22	1.87	0.74
7:g:1109:MET:SD	7:g:1514:THR:CG2	2.76	0.74
7:g:1479:TYR:HA	7:g:1490:ASP:HA	1.70	0.74
2:j:1451:ASP:O	2:j:1455:LEU:HB2	1.88	0.74
8:p:1114:SER:O	8:p:1118:ILE:HG13	1.88	0.74
2:B:242:LYS:CE	2:B:247:GLY:N	2.50	0.73
3:C:501:GLU:OE2	9:C:1101:ADP:H3'	1.87	0.73
5:E:35:GLN:CD	5:E:36:GLY:HA3	2.13	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:138:ILE:O	6:F:138:ILE:HG22	1.87	0.73
7:G:44:LEU:HD12	7:G:452:GLN:HB2	1.68	0.73
1:I:63:THR:HG22	1:I:65:ASP:H	1.52	0.73
1:I:187:VAL:CG2	1:I:383:SER:HB3	2.18	0.73
6:N:155:ARG:CB	6:N:171:THR:CG2	2.66	0.73
7:O:44:LEU:HD12	7:O:452:GLN:HB2	1.68	0.73
4:d:1521:ILE:CA	7:g:1050:ASP:O	2.35	0.73
6:f:1395:VAL:O	6:f:1399:LEU:CB	2.35	0.73
7:g:1033:CYS:SG	7:g:1083:LEU:HD11	2.27	0.73
4:l:1119:ILE:HG23	4:l:1436:GLN:HA	1.68	0.73
6:n:1430:ASN:O	6:n:1433:LYS:CB	2.33	0.73
7:o:1330:VAL:HG12	7:o:1347:GLY:HA3	1.69	0.73
7:o:1413:GLY:HA3	7:o:1491:ASN:HD21	1.52	0.73
1:A:115:LEU:HD21	1:A:446:LEU:HD22	1.69	0.73
2:B:232:LEU:HB3	2:B:283:THR:HG22	1.68	0.73
7:G:413:GLY:HA3	7:G:491:ASN:HD21	1.52	0.73
4:L:120:ILE:HG12	4:L:439:ILE:HG21	1.68	0.73
4:L:336:ILE:O	4:L:336:ILE:CG2	2.35	0.73
6:N:213:LEU:HD23	6:N:377:THR:HG23	1.68	0.73
6:N:465:ASP:HA	6:N:466:PRO:O	1.86	0.73
1:a:1357:LEU:HB2	1:a:1378:SER:HB3	1.69	0.73
2:b:1360:LYS:C	2:b:1362:GLY:HA2	2.12	0.73
8:h:1234:GLY:HA2	8:h:1310:LEU:HD11	1.69	0.73
1:i:1115:LEU:HD21	1:i:1446:LEU:HD22	1.69	0.73
2:j:1232:LEU:HB3	2:j:1283:THR:HG22	1.68	0.73
6:n:1465:ASP:HA	6:n:1466:PRO:O	1.86	0.73
8:p:1316:TYR:HD2	8:p:1316:TYR:N	1.87	0.73
4:D:421:ILE:O	4:D:425:LEU:HG	1.88	0.73
8:H:316:TYR:N	8:H:316:TYR:CD2	2.54	0.73
1:I:456:LEU:O	1:I:460:LYS:HG2	1.86	0.73
6:N:138:ILE:O	6:N:138:ILE:HG22	1.87	0.73
7:O:143:LEU:HD13	7:O:411:ALA:HB3	1.70	0.73
7:O:377:LEU:H	7:O:377:LEU:HD13	1.51	0.73
5:e:1142:HIS:O	5:e:1146:ILE:HG13	1.89	0.73
8:p:1063:ILE:HD12	8:p:1074:GLU:HG3	1.70	0.73
8:p:1163:ILE:HG23	8:p:1179:SER:HB2	1.70	0.73
1:A:30:VAL:O	1:A:33:THR:HG22	1.87	0.73
1:A:63:THR:HG22	1:A:65:ASP:H	1.52	0.73
4:D:336:ILE:O	4:D:336:ILE:CG2	2.35	0.73
8:H:316:TYR:HD2	8:H:316:TYR:N	1.87	0.73
2:J:232:LEU:HB3	2:J:283:THR:HG22	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:360:LYS:C	2:J:362:GLY:HA2	2.12	0.73
4:L:485:ARG:H	4:L:485:ARG:HD2	1.54	0.73
6:N:166:LEU:O	6:N:167:THR:CG2	2.33	0.73
7:O:330:VAL:HG12	7:O:347:GLY:HA3	1.69	0.73
8:P:77:ILE:H	8:P:77:ILE:HD13	1.53	0.73
8:P:163:ILE:HG23	8:P:179:SER:HB2	1.71	0.73
2:b:1250:PHE:HA	6:f:1250:GLY:O	1.88	0.73
6:f:1043:LEU:HD21	6:f:1161:LYS:HA	1.68	0.73
5:m:1142:HIS:O	5:m:1146:ILE:HG13	1.89	0.73
6:n:1138:ILE:O	6:n:1138:ILE:HG22	1.87	0.73
4:D:25:ILE:HD13	4:D:108:GLU:HB2	1.70	0.73
7:G:479:TYR:HA	7:G:490:ASP:HA	1.70	0.73
1:I:267:PRO:HA	1:I:268:GLU:CB	2.19	0.73
1:I:357:LEU:HB2	1:I:378:SER:HB3	1.69	0.73
1:i:1063:THR:HG22	1:i:1065:ASP:H	1.52	0.73
2:j:1164:LYS:O	2:j:1166:LEU:N	2.22	0.73
1:A:187:VAL:CG2	1:A:383:SER:HB3	2.18	0.73
4:D:120:ILE:HG12	4:D:439:ILE:HG21	1.68	0.73
8:H:114:SER:O	8:H:118:ILE:HG13	1.87	0.73
3:K:329:ALA:O	3:K:333:GLY:N	2.21	0.73
4:L:184:GLU:C	4:L:186:SER:O	2.32	0.73
2:b:1242:LYS:HE2	2:b:1246:PHE:HA	1.69	0.73
3:c:1301:VAL:HG23	3:c:1305:ALA:HB2	1.65	0.73
4:l:1120:ILE:HG12	4:l:1439:ILE:HG21	1.68	0.73
7:o:1143:LEU:HD13	7:o:1411:ALA:HB3	1.70	0.73
8:p:1204:VAL:HG21	8:p:1409:LYS:CB	2.19	0.73
2:B:285:ILE:CD1	2:B:289:LEU:HD23	2.19	0.73
4:D:183:ASP:O	4:D:187:LYS:HG2	1.88	0.73
2:J:242:LYS:HE2	2:J:246:PHE:HA	1.69	0.73
5:M:142:HIS:O	5:M:146:ILE:HG13	1.89	0.73
6:N:3:LEU:HD12	6:N:5:LEU:CD2	2.17	0.73
7:O:109:MET:SD	7:O:514:THR:CG2	2.76	0.73
8:P:204:VAL:HG21	8:P:409:LYS:CB	2.19	0.73
1:a:1187:VAL:CG2	1:a:1383:SER:HB3	2.18	0.73
2:b:1164:LYS:O	2:b:1166:LEU:N	2.22	0.73
6:f:1159:LEU:HA	6:f:1164:ALA:HB1	1.68	0.73
1:i:1187:VAL:CG2	1:i:1383:SER:HB3	2.18	0.73
3:k:1104:LEU:HD11	3:k:1520:LEU:HD12	1.69	0.73
5:m:1035:GLN:CD	5:m:1036:GLY:HA3	2.13	0.73
2:B:71:ASN:OD1	2:B:73:ALA:N	2.22	0.73
6:F:155:ARG:CB	6:F:171:THR:CG2	2.66	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:201:HIS:HB3	6:F:381:LYS:NZ	2.03	0.73
6:F:406:LEU:HB3	6:F:407:LYS:HZ2	1.53	0.73
8:H:77:ILE:H	8:H:77:ILE:HD13	1.53	0.73
2:J:242:LYS:CE	2:J:247:GLY:N	2.50	0.73
1:a:1101:VAL:HG22	1:a:1527:SER:HB2	1.71	0.73
2:b:1242:LYS:CE	2:b:1247:GLY:N	2.50	0.73
3:c:1329:ALA:O	3:c:1333:GLY:N	2.21	0.73
6:f:1151:LEU:HD12	6:f:1175:THR:HG21	1.65	0.73
7:g:1488:ILE:HD12	7:g:1488:ILE:H	1.52	0.73
4:l:1025:ILE:HD13	4:l:1108:GLU:HB2	1.70	0.73
4:l:1184:GLU:C	4:l:1186:SER:O	2.32	0.73
5:m:1187:SER:OG	5:m:1429:VAL:HG21	1.86	0.73
4:D:254:VAL:CG2	8:H:265:VAL:HG22	2.18	0.73
2:J:57:THR:HG21	2:J:382:ARG:HD3	1.71	0.73
3:K:518:CYS:O	3:K:522:ARG:HG3	1.89	0.73
4:L:183:ASP:O	4:L:187:LYS:HG2	1.88	0.73
8:P:54:ILE:CG1	8:P:64:ILE:HG12	2.13	0.73
2:b:1071:ASN:OD1	2:b:1073:ALA:N	2.22	0.73
4:d:1183:ASP:O	4:d:1187:LYS:HG2	1.88	0.73
7:g:1143:LEU:HD13	7:g:1411:ALA:HB3	1.70	0.73
8:h:1028:ILE:O	8:h:1032:ILE:HB	1.89	0.73
4:l:1485:ARG:H	4:l:1485:ARG:HD2	1.54	0.73
8:p:1077:ILE:HD13	8:p:1077:ILE:H	1.53	0.73
4:D:258:ARG:HD2	8:H:283:GLN:HE21	1.54	0.73
5:E:142:HIS:O	5:E:146:ILE:HG13	1.89	0.73
2:J:285:ILE:CD1	2:J:289:LEU:HD23	2.19	0.73
6:N:406:LEU:HB3	6:N:407:LYS:HZ2	1.53	0.73
6:N:411:ILE:HG22	6:N:412:ILE:N	2.04	0.73
3:c:1184:LYS:HE3	3:c:1407:MET:HE2	1.69	0.73
4:d:1119:ILE:HG23	4:d:1436:GLN:HA	1.68	0.73
4:d:1523:ASP:O	7:g:1051:ILE:HG23	1.89	0.73
8:h:1204:VAL:HG21	8:h:1409:LYS:CB	2.19	0.73
1:i:1267:PRO:HA	1:i:1268:GLU:CB	2.19	0.73
2:j:1071:ASN:OD1	2:j:1073:ALA:N	2.22	0.73
6:n:1013:LEU:HD13	6:n:1021:VAL:HG21	1.69	0.73
2:B:411:MET:HB2	2:B:437:LEU:HD13	1.70	0.72
4:D:184:GLU:C	4:D:186:SER:O	2.32	0.72
7:G:55:THR:HG21	7:G:72:LEU:HB3	1.70	0.72
1:a:1017:GLY:HA3	5:e:1095:GLU:OE2	1.89	0.72
4:d:1184:GLU:C	4:d:1186:SER:O	2.32	0.72
7:g:1055:THR:HG21	7:g:1072:LEU:HB3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:n:1411:ILE:HG22	6:n:1412:ILE:N	2.04	0.72
7:G:143:LEU:HD13	7:G:411:ALA:HB3	1.70	0.72
1:I:17:GLY:HA3	5:M:95:GLU:OE2	1.88	0.72
5:M:479:ILE:O	5:M:483:LEU:HB2	1.89	0.72
1:a:1267:PRO:HA	1:a:1268:GLU:CB	2.19	0.72
1:a:1350:PHE:HD2	1:a:1351:GLU:H	1.37	0.72
2:b:1329:PHE:C	2:b:1329:PHE:HD2	1.95	0.72
7:g:1056:SER:HA	7:g:1057:ASN:O	1.89	0.72
1:i:1030:VAL:O	1:i:1033:THR:HG22	1.87	0.72
4:l:1183:ASP:O	4:l:1187:LYS:HG2	1.88	0.72
7:o:1126:MET:HE1	7:o:1515:ASN:HA	1.72	0.72
3:C:518:CYS:O	3:C:522:ARG:HG3	1.89	0.72
5:E:479:ILE:O	5:E:483:LEU:HB2	1.89	0.72
5:E:492:ILE:HD11	2:J:115:ILE:HG12	1.71	0.72
6:f:1352:GLY:O	6:f:1353:LEU:C	2.33	0.72
6:n:1201:HIS:HB3	6:n:1381:LYS:NZ	2.03	0.72
6:n:1406:LEU:HB3	6:n:1407:LYS:HZ2	1.54	0.72
7:o:1055:THR:HG21	7:o:1072:LEU:HB3	1.71	0.72
6:F:143:LEU:CD2	6:F:145:ASN:HB3	2.19	0.72
6:F:540:THR:HB	6:F:541:LEU:HD22	1.72	0.72
8:H:63:ILE:HD12	8:H:74:GLU:HG3	1.70	0.72
8:H:234:GLY:HA2	8:H:310:LEU:HD11	1.69	0.72
4:L:421:ILE:O	4:L:425:LEU:HG	1.89	0.72
8:P:28:ILE:O	8:P:32:ILE:HB	1.89	0.72
3:c:1518:CYS:O	3:c:1522:ARG:HG3	1.89	0.72
4:d:1207:THR:HG22	4:d:1380:ARG:H	1.54	0.72
4:d:1485:ARG:H	4:d:1485:ARG:HD2	1.54	0.72
2:j:1072:PRO:HB3	3:k:1047:MET:HE1	1.71	0.72
2:j:1411:MET:HB2	2:j:1437:LEU:HD13	1.70	0.72
3:k:1518:CYS:O	3:k:1522:ARG:HG3	1.89	0.72
4:l:1521:ILE:CD1	7:o:1062:ILE:CD1	2.52	0.72
7:o:1488:ILE:HD12	7:o:1488:ILE:H	1.52	0.72
6:F:352:GLY:O	6:F:353:LEU:C	2.33	0.72
8:H:6:PRO:HG2	4:L:71:LEU:HA	1.71	0.72
1:I:122:PRO:HG3	5:M:70:LEU:HD11	1.71	0.72
4:L:119:ILE:HG23	4:L:436:GLN:HA	1.68	0.72
4:L:524:ILE:HG23	7:O:52:LEU:O	1.88	0.72
6:N:193:MET:CE	6:N:330:LEU:HD11	2.19	0.72
7:O:479:TYR:HA	7:O:490:ASP:HA	1.70	0.72
2:b:1357:SER:O	2:b:1360:LYS:CB	2.38	0.72
4:d:1025:ILE:HD13	4:d:1108:GLU:HB2	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1421:ILE:O	4:d:1425:LEU:HG	1.89	0.72
6:f:1108:PHE:CZ	6:f:1118:ILE:HG13	2.25	0.72
6:f:1193:MET:CE	6:f:1330:LEU:HD11	2.19	0.72
2:j:1198:ILE:O	2:j:1377:LEU:HD21	1.89	0.72
2:j:1357:SER:O	2:j:1360:LYS:CB	2.38	0.72
4:l:1207:THR:HG22	4:l:1380:ARG:H	1.54	0.72
8:p:1316:TYR:N	8:p:1316:TYR:CD2	2.54	0.72
2:B:475:ASN:N	2:B:475:ASN:ND2	2.38	0.72
5:E:492:ILE:H	5:E:492:ILE:HD12	1.52	0.72
6:F:108:PHE:CZ	6:F:118:ILE:HG13	2.25	0.72
2:J:5:ILE:O	3:K:70:VAL:HA	1.88	0.72
2:J:263:LYS:NZ	3:K:266:GLU:CB	2.53	0.72
2:b:1285:ILE:CD1	2:b:1289:LEU:HD23	2.19	0.72
3:c:1291:ARG:N	3:c:1292:PRO:HD3	2.05	0.72
8:h:1163:ILE:HG23	8:h:1179:SER:HB2	1.71	0.72
3:k:1291:ARG:N	3:k:1292:PRO:HD3	2.05	0.72
5:m:1479:ILE:O	5:m:1483:LEU:HB2	1.89	0.72
6:n:1005:LEU:CA	6:n:1006:LEU:CB	2.66	0.72
1:I:30:VAL:O	1:I:33:THR:HG22	1.87	0.72
1:I:156:LEU:HD22	1:I:181:VAL:HG13	1.71	0.72
2:J:242:LYS:HB2	3:K:269:TRP:HZ2	1.55	0.72
2:J:411:MET:HB2	2:J:437:LEU:HD13	1.70	0.72
6:N:540:THR:HB	6:N:541:LEU:HD22	1.72	0.72
8:P:234:GLY:HA2	8:P:310:LEU:HD11	1.69	0.72
2:j:1208:LEU:HD13	2:j:1366:THR:HG22	1.71	0.72
6:n:1352:GLY:O	6:n:1353:LEU:C	2.33	0.72
7:o:1479:TYR:HA	7:o:1490:ASP:HA	1.70	0.72
2:B:164:LYS:O	2:B:166:LEU:N	2.22	0.72
6:F:420:ILE:HG21	6:F:482:ASP:OD1	1.89	0.72
7:G:191:ARG:HD3	7:G:192:ASN:H	1.55	0.72
7:G:232:GLN:HG2	7:G:313:PHE:HA	1.72	0.72
8:H:204:VAL:HG21	8:H:409:LYS:CB	2.19	0.72
2:J:71:ASN:OD1	2:J:73:ALA:N	2.22	0.72
7:O:205:PRO:HA	7:O:386:ILE:HD11	1.71	0.72
7:g:1043:THR:HB	7:g:1099:THR:HG21	1.72	0.72
3:k:1329:ALA:O	3:k:1333:GLY:N	2.21	0.72
4:l:1421:ILE:O	4:l:1425:LEU:HG	1.89	0.72
6:n:1193:MET:CE	6:n:1330:LEU:HD11	2.19	0.72
1:A:267:PRO:HA	1:A:268:GLU:CB	2.19	0.72
2:B:242:LYS:HZ1	2:B:247:GLY:C	1.96	0.72
3:C:114:LYS:HA	3:C:115:ASN:CB	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:322:LYS:HG3	3:C:323:SER:H	1.55	0.72
4:D:207:THR:HG22	4:D:380:ARG:H	1.54	0.72
6:F:411:ILE:HG22	6:F:412:ILE:N	2.04	0.72
2:J:4:GLN:HG2	3:K:72:HIS:HB2	1.72	0.72
2:J:164:LYS:O	2:J:166:LEU:N	2.22	0.72
2:J:198:ILE:O	2:J:377:LEU:HD21	1.89	0.72
3:K:322:LYS:HG3	3:K:323:SER:H	1.55	0.72
6:N:143:LEU:CD2	6:N:145:ASN:HB3	2.19	0.72
3:c:1250:LEU:CD2	3:c:1301:VAL:HB	2.20	0.72
4:d:1521:ILE:HG12	7:g:1062:ILE:HD11	1.72	0.72
2:B:357:SER:O	2:B:360:LYS:CB	2.38	0.72
2:J:357:SER:O	2:J:360:LYS:CB	2.38	0.72
4:L:207:THR:HG22	4:L:380:ARG:H	1.54	0.72
1:a:1008:SER:N	2:j:1021:SER:HG	1.87	0.72
3:c:1114:LYS:HA	3:c:1115:ASN:CB	2.20	0.72
4:d:1404:LEU:O	4:d:1407:GLU:O	2.08	0.72
7:o:1056:SER:HA	7:o:1057:ASN:O	1.90	0.72
3:C:291:ARG:N	3:C:292:PRO:HD3	2.05	0.71
7:O:56:SER:HA	7:O:57:ASN:O	1.90	0.71
2:b:1348:LEU:CG	6:f:1086:ILE:HA	2.20	0.71
6:f:1143:LEU:CD2	6:f:1145:ASN:HB3	2.19	0.71
6:f:1166:LEU:O	6:f:1167:THR:CG2	2.33	0.71
6:f:1352:GLY:O	6:f:1367:VAL:HG12	1.86	0.71
1:i:1101:VAL:HG22	1:i:1527:SER:HB2	1.71	0.71
2:j:1422:ILE:HB	2:j:1427:SER:CB	2.15	0.71
2:j:1475:ASN:N	2:j:1475:ASN:ND2	2.38	0.71
3:k:1322:LYS:HG3	3:k:1323:SER:H	1.55	0.71
4:l:1404:LEU:O	4:l:1407:GLU:O	2.08	0.71
6:F:166:LEU:O	6:F:167:THR:CG2	2.33	0.71
6:F:193:MET:CE	6:F:330:LEU:HD11	2.19	0.71
8:H:28:ILE:O	8:H:32:ILE:HB	1.89	0.71
8:H:163:ILE:HG23	8:H:179:SER:HB2	1.70	0.71
7:g:1191:ARG:HD3	7:g:1192:ASN:H	1.54	0.71
6:n:1203:SER:O	6:n:1205:LYS:N	2.24	0.71
7:o:1205:PRO:HA	7:o:1386:ILE:HD11	1.71	0.71
2:B:251:LYS:H	6:F:251:PHE:HA	1.55	0.71
4:D:404:LEU:O	4:D:407:GLU:O	2.08	0.71
6:N:108:PHE:CZ	6:N:118:ILE:HG13	2.25	0.71
2:b:1005:ILE:O	3:c:1070:VAL:HA	1.91	0.71
2:j:1514:ILE:CD1	3:k:1047:MET:HB3	2.19	0.71
7:G:43:THR:HB	7:G:99:THR:HG21	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:56:SER:HA	7:G:57:ASN:O	1.90	0.71
1:I:250:ASN:CG	1:I:250:ASN:O	2.32	0.71
2:J:373:THR:O	2:J:376:THR:HG22	1.91	0.71
6:N:151:LEU:HD12	6:N:175:THR:HG21	1.66	0.71
8:P:63:ILE:HD12	8:P:74:GLU:HG3	1.70	0.71
6:f:1411:ILE:HG22	6:f:1412:ILE:N	2.04	0.71
1:i:1350:PHE:HD2	1:i:1351:GLU:H	1.37	0.71
2:j:1285:ILE:CD1	2:j:1289:LEU:HD23	2.19	0.71
3:k:1250:LEU:CD2	3:k:1301:VAL:HB	2.20	0.71
4:l:1184:GLU:HA	4:l:1186:SER:O	1.91	0.71
3:K:51:PRO:O	3:K:52:MET:HG3	1.90	0.71
7:O:55:THR:HG21	7:O:72:LEU:HB3	1.71	0.71
5:e:1479:ILE:O	5:e:1483:LEU:HB2	1.89	0.71
6:f:1005:LEU:CA	6:f:1006:LEU:CB	2.66	0.71
1:i:1012:THR:HB	5:m:1096:LEU:HA	1.72	0.71
6:n:1540:THR:HB	6:n:1541:LEU:HD22	1.72	0.71
2:B:4:GLN:HG2	3:C:72:HIS:HB2	1.72	0.71
2:B:345:GLU:O	2:B:351:GLN:CB	2.39	0.71
4:L:210:ILE:O	4:L:375:VAL:CG1	2.39	0.71
5:M:558:GLY:HA2	6:N:48:ASP:HB2	1.72	0.71
6:N:539:SER:HB3	6:N:542:LYS:CD	2.15	0.71
1:a:1250:ASN:CG	1:a:1250:ASN:O	2.32	0.71
2:j:1242:LYS:HZ1	2:j:1247:GLY:C	1.96	0.71
2:j:1373:THR:O	2:j:1376:THR:HG22	1.91	0.71
6:n:1420:ILE:HG21	6:n:1482:ASP:OD1	1.89	0.71
6:n:1543:GLU:O	6:n:1544:THR:C	2.33	0.71
8:p:1054:ILE:CG1	8:p:1064:ILE:HG12	2.13	0.71
1:A:118:ASN:C	1:A:119:LYS:HD2	2.16	0.71
2:B:329:PHE:C	2:B:329:PHE:HD2	1.96	0.71
2:B:360:LYS:C	2:B:362:GLY:HA2	2.12	0.71
3:C:51:PRO:O	3:C:52:MET:HG3	1.90	0.71
5:E:319:ASP:O	5:E:340:LEU:HB2	1.91	0.71
7:G:226:TYR:CE1	7:G:229:PHE:O	2.44	0.71
7:G:232:GLN:HG3	7:G:313:PHE:HA	1.73	0.71
1:I:16:GLY:HA3	1:I:548:ASP:HB3	1.73	0.71
3:K:225:LEU:HD13	3:K:320:VAL:HG13	1.73	0.71
6:N:5:LEU:CB	6:N:6:LEU:O	2.38	0.71
6:N:154:ALA:HB1	6:N:402:VAL:HG23	1.73	0.71
6:N:203:SER:O	6:N:205:LYS:N	2.24	0.71
1:a:1156:LEU:HD22	1:a:1181:VAL:HG13	1.71	0.71
2:b:1345:GLU:O	2:b:1351:GLN:CB	2.39	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1475:ASN:H	2:b:1475:ASN:ND2	1.89	0.71
4:d:1207:THR:HG22	4:d:1380:ARG:N	2.06	0.71
6:f:1005:LEU:CB	6:f:1006:LEU:O	2.38	0.71
6:f:1203:SER:O	6:f:1205:LYS:N	2.24	0.71
6:f:1540:THR:HB	6:f:1541:LEU:HD22	1.72	0.71
7:g:1205:PRO:HA	7:g:1386:ILE:HD11	1.71	0.71
8:h:1054:ILE:CG1	8:h:1064:ILE:HG12	2.13	0.71
1:i:1094:ILE:HG22	1:i:1096:ASP:H	1.56	0.71
1:i:1230:SER:O	1:i:1233:MET:HG3	1.91	0.71
6:n:1108:PHE:CZ	6:n:1118:ILE:HG13	2.25	0.71
7:o:1043:THR:HB	7:o:1099:THR:HG21	1.72	0.71
7:o:1232:GLN:HG2	7:o:1313:PHE:HA	1.72	0.71
7:o:1232:GLN:HG3	7:o:1313:PHE:HA	1.73	0.71
8:p:1028:ILE:O	8:p:1032:ILE:HB	1.89	0.71
1:A:12:THR:HG22	1:A:13:LEU:HD23	1.73	0.71
1:A:350:PHE:HD2	1:A:351:GLU:H	1.37	0.71
2:B:57:THR:HG21	2:B:382:ARG:HD3	1.71	0.71
4:D:71:LEU:HA	8:P:6:PRO:HG2	1.73	0.71
4:D:328:LEU:CB	4:D:345:ASP:OD2	2.38	0.71
4:D:485:ARG:H	4:D:485:ARG:HD2	1.54	0.71
6:F:543:GLU:O	6:F:544:THR:C	2.33	0.71
5:M:319:ASP:O	5:M:340:LEU:HB2	1.91	0.71
7:O:226:TYR:CE1	7:O:229:PHE:O	2.44	0.71
7:O:232:GLN:HG2	7:O:313:PHE:HA	1.72	0.71
6:f:1016:ASP:HA	6:f:1019:LEU:CD1	2.20	0.71
1:i:1016:GLY:HA3	1:i:1548:ASP:HB3	1.73	0.71
1:i:1250:ASN:CG	1:i:1250:ASN:O	2.32	0.71
2:j:1459:LEU:HB2	2:j:1472:LEU:HD21	1.73	0.71
1:A:16:GLY:HA3	1:A:548:ASP:HB3	1.73	0.71
1:A:230:SER:O	1:A:233:MET:HG3	1.91	0.71
2:B:373:THR:O	2:B:376:THR:HG22	1.91	0.71
1:I:101:VAL:HG22	1:I:527:SER:HB2	1.71	0.71
1:I:418:VAL:HG12	1:I:419:VAL:H	1.56	0.71
2:J:422:ILE:O	2:J:423:ASP:CG	2.34	0.71
3:K:114:LYS:HA	3:K:115:ASN:CB	2.20	0.71
6:N:352:GLY:O	6:N:353:LEU:C	2.33	0.71
6:N:433:LYS:HG3	6:N:444:ILE:HG21	1.73	0.71
1:a:1016:GLY:HA3	1:a:1548:ASP:HB3	1.73	0.71
7:g:1126:MET:HE1	7:g:1515:ASN:HA	1.72	0.71
7:g:1232:GLN:HG2	7:g:1313:PHE:HA	1.72	0.71
4:l:1134:ILE:CD1	4:l:1424:ARG:HD3	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:n:1143:LEU:CD2	6:n:1145:ASN:HB3	2.19	0.71
1:A:418:VAL:HG12	1:A:419:VAL:H	1.56	0.71
2:B:198:ILE:O	2:B:377:LEU:HD21	1.89	0.71
4:D:46:LYS:HG3	8:H:532:THR:HG23	1.71	0.71
4:L:134:ILE:CD1	4:L:424:ARG:HD3	2.20	0.71
2:b:1422:ILE:O	2:b:1423:ASP:CG	2.34	0.71
3:k:1051:PRO:O	3:k:1052:MET:HG3	1.91	0.71
6:n:1005:LEU:CB	6:n:1006:LEU:O	2.38	0.71
6:F:209:PHE:HE2	6:F:376:CYS:SG	2.10	0.70
2:J:237:THR:H	2:J:287:ARG:HD2	1.56	0.70
2:J:475:ASN:N	2:J:475:ASN:ND2	2.38	0.70
3:K:269:TRP:HZ3	6:N:247:VAL:HB	1.54	0.70
6:N:209:PHE:HE2	6:N:376:CYS:SG	2.10	0.70
7:O:232:GLN:HG3	7:O:313:PHE:HA	1.73	0.70
6:f:1209:PHE:HE2	6:f:1376:CYS:SG	2.10	0.70
8:h:1291:ILE:HD11	8:h:1345:GLY:HA2	1.73	0.70
2:j:1345:GLU:O	2:j:1351:GLN:CB	2.39	0.70
2:j:1475:ASN:H	2:j:1475:ASN:ND2	1.89	0.70
3:k:1114:LYS:HA	3:k:1115:ASN:CB	2.20	0.70
6:n:1151:LEU:HD12	6:n:1175:THR:HG21	1.65	0.70
6:F:5:LEU:CB	6:F:6:LEU:O	2.38	0.70
6:F:203:SER:O	6:F:205:LYS:N	2.24	0.70
1:I:94:ILE:HG22	1:I:96:ASP:H	1.56	0.70
6:N:53:ILE:C	6:N:53:ILE:CD1	2.62	0.70
3:c:1051:PRO:O	3:c:1052:MET:HG3	1.90	0.70
6:f:1245:THR:OG1	6:f:1247:VAL:HG22	1.91	0.70
5:m:1104:LEU:HA	5:m:1107:LEU:HD23	1.73	0.70
2:B:30:GLY:HA2	2:B:33:VAL:HG23	1.73	0.70
2:B:242:LYS:NZ	2:B:247:GLY:H	1.90	0.70
4:D:210:ILE:O	4:D:375:VAL:CG1	2.39	0.70
7:O:126:MET:HE1	7:O:515:ASN:HA	1.72	0.70
8:P:291:ILE:HD11	8:P:345:GLY:HA2	1.74	0.70
2:b:1131:ALA:HB1	2:b:1411:MET:HB3	1.73	0.70
6:f:1433:LYS:HG3	6:f:1444:ILE:HG21	1.73	0.70
3:k:1264:GLU:C	3:k:1265:LYS:CG	2.62	0.70
8:p:1291:ILE:HD11	8:p:1345:GLY:HA2	1.73	0.70
2:B:131:ALA:HB1	2:B:411:MET:HB3	1.73	0.70
2:B:237:THR:H	2:B:287:ARG:HD2	1.56	0.70
2:B:295:GLU:OE1	6:F:339:SER:HB3	1.91	0.70
4:D:482:ILE:HD13	4:D:482:ILE:H	1.57	0.70
6:F:154:ALA:HB1	6:F:402:VAL:HG23	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:118:ASN:C	1:I:119:LYS:HD2	2.16	0.70
3:K:225:LEU:HD13	3:K:320:VAL:CG1	2.22	0.70
6:f:1113:VAL:HB	6:f:1118:ILE:HD11	1.73	0.70
6:f:1433:LYS:HG3	6:f:1444:ILE:HG13	1.74	0.70
1:i:1156:LEU:HD22	1:i:1181:VAL:HG13	1.71	0.70
2:j:1326:VAL:HG22	3:k:1304:LEU:HD22	1.72	0.70
2:j:1422:ILE:O	2:j:1423:ASP:CG	2.34	0.70
3:k:1225:LEU:HD13	3:k:1320:VAL:CG1	2.22	0.70
3:k:1225:LEU:HD13	3:k:1320:VAL:HG13	1.73	0.70
6:n:1245:THR:OG1	6:n:1247:VAL:HG22	1.91	0.70
1:A:250:ASN:CG	1:A:250:ASN:O	2.32	0.70
2:B:475:ASN:H	2:B:475:ASN:ND2	1.89	0.70
6:F:16:ASP:HA	6:F:19:LEU:CD1	2.20	0.70
8:H:333:CYS:SG	8:H:340:PRO:HD3	2.32	0.70
1:I:12:THR:HG22	1:I:13:LEU:HD23	1.73	0.70
6:N:420:ILE:HG21	6:N:482:ASP:OD1	1.89	0.70
7:O:43:THR:HB	7:O:99:THR:HG21	1.72	0.70
3:c:1322:LYS:HG3	3:c:1323:SER:H	1.55	0.70
6:f:1420:ILE:HG21	6:f:1482:ASP:OD1	1.89	0.70
7:g:1056:SER:HA	7:g:1057:ASN:C	2.16	0.70
7:g:1109:MET:HG2	7:g:1514:THR:HG22	1.74	0.70
8:h:1153:LYS:H	8:h:1153:LYS:HD2	1.56	0.70
8:h:1316:TYR:N	8:h:1316:TYR:CD2	2.54	0.70
2:j:1039:PRO:HA	2:j:1163:SER:HA	1.74	0.70
6:n:1154:ALA:HB1	6:n:1402:VAL:HG23	1.73	0.70
6:n:1158:LEU:O	6:n:1158:LEU:CD1	2.39	0.70
2:B:30:GLY:HA2	2:B:33:VAL:CG2	2.22	0.70
3:C:225:LEU:HD13	3:C:320:VAL:CG1	2.22	0.70
2:J:345:GLU:O	2:J:351:GLN:CB	2.39	0.70
4:L:521:ILE:CG2	7:O:52:LEU:H	2.05	0.70
5:M:253:GLN:N	5:M:254:MET:CB	2.54	0.70
5:M:509:ASN:O	5:M:522:MET:N	2.24	0.70
6:N:543:GLU:O	6:N:544:THR:C	2.33	0.70
7:O:396:ALA:O	7:O:399:ILE:HG22	1.92	0.70
2:b:1030:GLY:HA2	2:b:1033:VAL:CG2	2.22	0.70
5:e:1319:ASP:O	5:e:1340:LEU:CB	2.40	0.70
2:j:1237:THR:H	2:j:1287:ARG:HD2	1.56	0.70
3:k:1125:LEU:HD22	3:k:1445:VAL:HG23	1.74	0.70
5:m:1509:ASN:O	5:m:1522:MET:N	2.24	0.70
6:n:1016:ASP:HA	6:n:1019:LEU:CD1	2.20	0.70
7:o:1191:ARG:HD3	7:o:1192:ASN:H	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:VAL:HG22	1:A:527:SER:HB2	1.71	0.70
4:D:184:GLU:HA	4:D:186:SER:O	1.91	0.70
4:D:207:THR:HG22	4:D:380:ARG:N	2.06	0.70
6:F:245:THR:OG1	6:F:247:VAL:HG22	1.91	0.70
7:G:58:GLN:NE2	8:P:6:PRO:O	2.24	0.70
8:H:6:PRO:CG	4:L:71:LEU:CA	2.69	0.70
2:J:39:PRO:HA	2:J:163:SER:HA	1.74	0.70
4:L:404:LEU:O	4:L:407:GLU:O	2.08	0.70
5:M:104:LEU:HA	5:M:107:LEU:HD23	1.73	0.70
4:d:1169:PHE:O	4:d:1173:LEU:HD13	1.92	0.70
4:d:1210:ILE:O	4:d:1375:VAL:CG1	2.39	0.70
6:f:1539:SER:HB3	6:f:1542:LYS:CD	2.15	0.70
2:j:1057:THR:HG21	2:j:1382:ARG:HD3	1.71	0.70
5:m:1253:GLN:N	5:m:1254:MET:CB	2.54	0.70
7:o:1226:TYR:CE1	7:o:1229:PHE:O	2.44	0.70
2:B:263:LYS:HZ3	3:C:266:GLU:HB3	1.54	0.70
5:E:509:ASN:O	5:E:522:MET:N	2.24	0.70
6:F:37:LEU:HD13	6:F:458:LEU:HA	1.73	0.70
8:H:475:LEU:HB2	8:H:476:PRO:HD3	1.74	0.70
2:J:131:ALA:HB1	2:J:411:MET:HB3	1.73	0.70
3:K:125:LEU:HD22	3:K:445:VAL:HG23	1.74	0.70
3:K:291:ARG:N	3:K:292:PRO:HD3	2.05	0.70
4:L:482:ILE:HD13	4:L:482:ILE:H	1.57	0.70
6:N:7:ASN:OD1	6:N:8:PRO:N	2.25	0.70
6:N:245:THR:OG1	6:N:247:VAL:HG22	1.91	0.70
8:P:333:CYS:SG	8:P:340:PRO:HD3	2.32	0.70
1:a:1094:ILE:HG22	1:a:1096:ASP:H	1.56	0.70
1:a:1418:VAL:HG12	1:a:1419:VAL:H	1.56	0.70
2:b:1021:SER:OG	1:i:1008:SER:N	2.25	0.70
2:b:1030:GLY:HA2	2:b:1033:VAL:HG23	1.73	0.70
2:b:1057:THR:HG21	2:b:1382:ARG:HD3	1.71	0.70
2:j:1242:LYS:NZ	2:j:1247:GLY:H	1.90	0.70
3:k:1299:LYS:CA	3:k:1319:ARG:CB	2.70	0.70
5:m:1251:HIS:O	5:m:1253:GLN:N	2.24	0.70
6:n:1007:ASN:OD1	6:n:1008:PRO:N	2.25	0.70
6:n:1433:LYS:HG3	6:n:1444:ILE:HG21	1.73	0.70
1:A:156:LEU:HD22	1:A:181:VAL:HG13	1.71	0.70
2:B:83:VAL:HG21	3:C:384:GLY:O	1.91	0.70
2:B:422:ILE:O	2:B:423:ASP:CG	2.34	0.70
5:E:319:ASP:O	5:E:340:LEU:CB	2.40	0.70
7:G:126:MET:HE1	7:G:515:ASN:HA	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:12:THR:HB	1:I:13:LEU:HB2	1.74	0.70
2:J:206:SER:HB3	2:J:368:VAL:HG13	1.73	0.70
2:J:242:LYS:NZ	2:J:247:GLY:H	1.90	0.70
4:L:184:GLU:HA	4:L:186:SER:O	1.91	0.70
4:L:207:THR:HG22	4:L:380:ARG:N	2.06	0.70
7:O:121:SER:HB2	7:O:124:LEU:HD23	1.74	0.70
1:a:1118:ASN:C	1:a:1119:LYS:HD2	2.16	0.70
2:b:1198:ILE:O	2:b:1377:LEU:HD21	1.89	0.70
2:b:1459:LEU:HB2	2:b:1472:LEU:HD21	1.73	0.70
6:f:1007:ASN:OD1	6:f:1008:PRO:N	2.25	0.70
7:g:1121:SER:HB2	7:g:1124:LEU:HD23	1.74	0.70
1:i:1012:THR:HB	1:i:1013:LEU:HB2	1.74	0.70
1:i:1418:VAL:HG12	1:i:1419:VAL:H	1.56	0.70
2:j:1251:LYS:H	6:n:1251:PHE:HA	1.57	0.70
2:j:1263:LYS:CE	3:k:1266:GLU:HB3	2.21	0.70
4:l:1166:TYR:O	4:l:1169:PHE:HB3	1.92	0.70
5:m:1319:ASP:O	5:m:1340:LEU:CB	2.40	0.70
6:n:1037:LEU:HD13	6:n:1458:LEU:HA	1.74	0.70
6:n:1113:VAL:HB	6:n:1118:ILE:HD11	1.73	0.70
6:F:113:VAL:HB	6:F:118:ILE:HD11	1.73	0.70
4:L:521:ILE:HG12	7:O:62:ILE:HD11	1.73	0.70
6:N:113:VAL:HB	6:N:118:ILE:HD11	1.73	0.70
1:a:1012:THR:HG22	1:a:1013:LEU:HD23	1.73	0.70
4:d:1184:GLU:HA	4:d:1186:SER:O	1.91	0.70
2:B:263:LYS:NZ	3:C:266:GLU:HB3	2.06	0.69
5:E:253:GLN:N	5:E:254:MET:CB	2.54	0.69
6:F:36:ASN:CB	6:F:57:LYS:NZ	2.24	0.69
6:F:154:ALA:HB2	6:F:402:VAL:HG23	1.73	0.69
7:G:121:SER:HB2	7:G:124:LEU:HD23	1.74	0.69
7:G:205:PRO:HA	7:G:386:ILE:HD11	1.71	0.69
6:N:158:LEU:O	6:N:158:LEU:CD1	2.39	0.69
8:P:475:LEU:HB2	8:P:476:PRO:HD3	1.74	0.69
2:b:1422:ILE:HB	2:b:1427:SER:CB	2.15	0.69
6:f:1037:LEU:HD13	6:f:1458:LEU:HA	1.74	0.69
7:g:1226:TYR:CE1	7:g:1229:PHE:O	2.44	0.69
7:g:1232:GLN:HG3	7:g:1313:PHE:HA	1.73	0.69
1:i:1012:THR:HG22	1:i:1013:LEU:HD23	1.73	0.69
4:l:1210:ILE:O	4:l:1375:VAL:CG1	2.39	0.69
4:l:1254:VAL:CG2	8:p:1265:VAL:HA	2.22	0.69
4:l:1521:ILE:CG2	7:o:1050:ASP:O	2.40	0.69
5:m:1319:ASP:O	5:m:1340:LEU:HB2	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:414:ALA:O	2:B:417:THR:HG22	1.92	0.69
2:B:422:ILE:HB	2:B:427:SER:CB	2.15	0.69
3:C:299:LYS:CA	3:C:319:ARG:CB	2.70	0.69
6:F:433:LYS:HG3	6:F:444:ILE:HG13	1.74	0.69
6:N:37:LEU:HD13	6:N:458:LEU:HA	1.74	0.69
7:O:191:ARG:HD3	7:O:192:ASN:H	1.55	0.69
4:d:1404:LEU:HD22	4:d:1410:LEU:HG	1.74	0.69
7:g:1396:ALA:O	7:g:1399:ILE:HG22	1.92	0.69
8:h:1333:CYS:SG	8:h:1340:PRO:HD3	2.32	0.69
1:i:1118:ASN:C	1:i:1119:LYS:HD2	2.16	0.69
3:k:1250:LEU:HD21	3:k:1301:VAL:HB	1.74	0.69
4:l:1207:THR:HG22	4:l:1380:ARG:N	2.06	0.69
1:A:299:THR:HG23	1:A:326:LEU:HD12	1.74	0.69
2:B:328:THR:O	2:B:329:PHE:CG	2.46	0.69
5:E:104:LEU:HA	5:E:107:LEU:HD23	1.73	0.69
4:L:166:TYR:O	4:L:169:PHE:HB3	1.92	0.69
1:a:1230:SER:O	1:a:1233:MET:HG3	1.91	0.69
1:a:1299:THR:HG23	1:a:1326:LEU:HD12	1.74	0.69
2:b:1311:PHE:O	2:b:1315:GLU:HG2	1.93	0.69
3:c:1299:LYS:CA	3:c:1319:ARG:CB	2.70	0.69
2:j:1131:ALA:HB1	2:j:1411:MET:HB3	1.73	0.69
4:l:1404:LEU:HD22	4:l:1410:LEU:HG	1.74	0.69
6:n:1352:GLY:O	6:n:1367:VAL:HG12	1.86	0.69
3:C:265:LYS:NZ	3:C:268:ASP:CB	2.55	0.69
4:D:254:VAL:HG22	8:H:264:THR:O	1.92	0.69
6:F:321:LYS:HA	6:F:321:LYS:HE3	1.75	0.69
1:I:224:LEU:HD11	1:I:226:CYS:HB2	1.75	0.69
2:J:328:THR:O	2:J:329:PHE:CG	2.45	0.69
6:N:353:LEU:O	6:N:367:VAL:CG1	2.40	0.69
7:O:56:SER:HA	7:O:57:ASN:C	2.17	0.69
8:P:237:LYS:HB3	8:P:314:ASN:HB3	1.63	0.69
2:b:1348:LEU:HD21	6:f:1086:ILE:C	2.17	0.69
2:b:1402:LEU:HD21	2:b:1483:ARG:HG3	1.74	0.69
5:e:1253:GLN:N	5:e:1254:MET:CB	2.54	0.69
6:f:1154:ALA:HB1	6:f:1402:VAL:HG23	1.73	0.69
6:f:1543:GLU:O	6:f:1544:THR:C	2.33	0.69
7:g:1148:THR:O	7:g:1149:SER:CB	2.40	0.69
2:j:1242:LYS:HA	3:k:1269:TRP:HE1	1.58	0.69
2:j:1311:PHE:O	2:j:1315:GLU:HG2	1.93	0.69
7:o:1148:THR:O	7:o:1149:SER:CB	2.40	0.69
8:p:1153:LYS:H	8:p:1153:LYS:HD2	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:416:GLY:HA2	9:C:1101:ADP:H2'	1.74	0.69
4:D:169:PHE:O	4:D:173:LEU:HD13	1.92	0.69
4:L:521:ILE:HG21	7:O:52:LEU:H	1.56	0.69
6:N:433:LYS:HG3	6:N:444:ILE:HG13	1.74	0.69
2:b:1373:THR:O	2:b:1376:THR:HG22	1.91	0.69
4:d:1482:ILE:HD13	4:d:1482:ILE:H	1.57	0.69
5:e:1319:ASP:O	5:e:1340:LEU:HB2	1.91	0.69
6:f:1158:LEU:O	6:f:1158:LEU:CD1	2.39	0.69
2:j:1357:SER:C	2:j:1360:LYS:CB	2.66	0.69
2:j:1414:ALA:O	2:j:1417:THR:HG22	1.92	0.69
3:C:225:LEU:HD13	3:C:320:VAL:HG13	1.73	0.69
4:D:265:LYS:NZ	8:H:343:ARG:HD3	2.07	0.69
1:I:230:SER:O	1:I:233:MET:HG3	1.91	0.69
1:I:299:THR:HG23	1:I:326:LEU:HD12	1.75	0.69
2:J:311:PHE:O	2:J:315:GLU:HG2	1.93	0.69
2:b:1237:THR:H	2:b:1287:ARG:HD2	1.56	0.69
2:b:1328:THR:O	2:b:1329:PHE:CD1	2.46	0.69
4:d:1166:TYR:O	4:d:1169:PHE:HB3	1.92	0.69
6:f:1353:LEU:O	6:f:1367:VAL:CG1	2.40	0.69
6:f:1354:VAL:HG22	6:f:1367:VAL:HG13	1.75	0.69
2:j:1328:THR:O	2:j:1329:PHE:CG	2.45	0.69
6:n:1141:THR:HB	6:n:1409:LYS:HG3	1.75	0.69
2:B:32:LEU:CD1	6:F:532:GLU:OE2	2.41	0.69
4:D:134:ILE:CD1	4:D:424:ARG:HD3	2.20	0.69
4:D:404:LEU:HD22	4:D:410:LEU:HG	1.74	0.69
8:H:153:LYS:H	8:H:153:LYS:HD2	1.56	0.69
2:J:30:GLY:HA2	2:J:33:VAL:CG2	2.22	0.69
2:J:459:LEU:HB2	2:J:472:LEU:HD21	1.73	0.69
7:O:109:MET:HG2	7:O:514:THR:HG22	1.74	0.69
7:O:148:THR:O	7:O:149:SER:CB	2.40	0.69
3:c:1225:LEU:HD13	3:c:1320:VAL:CG1	2.22	0.69
6:f:1167:THR:HA	6:f:1168:GLU:HB3	1.75	0.69
6:n:1167:THR:HA	6:n:1168:GLU:HB3	1.75	0.69
7:o:1396:ALA:O	7:o:1399:ILE:HG22	1.92	0.69
8:p:1335:VAL:HG13	8:p:1379:SER:HB3	1.75	0.69
2:B:32:LEU:HG	6:F:532:GLU:OE1	1.92	0.69
2:B:257:LYS:HA	2:B:260:GLN:HB3	1.75	0.69
4:D:15:GLU:O	4:D:523:ASP:OD2	2.11	0.69
4:D:159:SER:O	4:D:161:LYS:HD3	1.93	0.69
4:D:166:TYR:O	4:D:169:PHE:HB3	1.92	0.69
5:E:166:ASP:HB3	5:E:167:ASP:CB	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:167:THR:HA	6:F:168:GLU:HB3	1.75	0.69
6:F:539:SER:HB3	6:F:542:LYS:CD	2.15	0.69
7:G:148:THR:O	7:G:149:SER:CB	2.40	0.69
8:H:291:ILE:HD11	8:H:345:GLY:HA2	1.73	0.69
8:H:335:VAL:HG13	8:H:379:SER:HB3	1.75	0.69
8:H:346:ALA:N	8:H:347:PRO:CD	2.56	0.69
1:I:350:PHE:HD2	1:I:351:GLU:H	1.37	0.69
2:J:328:THR:O	2:J:329:PHE:CD1	2.46	0.69
2:J:357:SER:C	2:J:360:LYS:CB	2.66	0.69
2:J:475:ASN:H	2:J:475:ASN:ND2	1.89	0.69
5:M:88:ALA:HB1	5:M:109:LYS:HZ1	1.57	0.69
6:N:433:LYS:HG2	6:N:444:ILE:HG21	1.74	0.69
8:P:153:LYS:H	8:P:153:LYS:HD2	1.56	0.69
1:a:1012:THR:HB	1:a:1013:LEU:HB2	1.74	0.69
1:a:1228:VAL:CG2	1:a:1363:GLN:NE2	2.49	0.69
2:b:1357:SER:C	2:b:1360:LYS:CB	2.66	0.69
4:d:1159:SER:O	4:d:1161:LYS:HD3	1.93	0.69
5:e:1104:LEU:HA	5:e:1107:LEU:HD23	1.73	0.69
5:e:1251:HIS:O	5:e:1253:GLN:N	2.25	0.69
5:e:1558:GLY:HA2	6:f:1048:ASP:HB2	1.74	0.69
6:f:1141:THR:HB	6:f:1409:LYS:HG3	1.75	0.69
1:i:1228:VAL:CG2	1:i:1363:GLN:NE2	2.49	0.69
1:i:1517:VAL:C	1:i:1518:LEU:HG	2.18	0.69
2:j:1402:LEU:HD21	2:j:1483:ARG:HG3	1.74	0.69
6:n:1353:LEU:O	6:n:1367:VAL:CG1	2.40	0.69
6:n:1433:LYS:HG3	6:n:1444:ILE:HG13	1.74	0.69
8:p:1333:CYS:SG	8:p:1340:PRO:HD3	2.32	0.69
8:p:1475:LEU:HB2	8:p:1476:PRO:HD3	1.74	0.69
3:C:467:LEU:O	3:C:471:LEU:HB2	1.93	0.69
5:E:544:LEU:HD23	6:F:384:THR:HG21	1.73	0.69
6:F:433:LYS:HG3	6:F:444:ILE:HG21	1.73	0.69
7:G:396:ALA:O	7:G:399:ILE:HG22	1.92	0.69
3:K:299:LYS:CA	3:K:319:ARG:CB	2.70	0.69
5:M:319:ASP:O	5:M:340:LEU:CB	2.40	0.69
6:f:1433:LYS:HG2	6:f:1444:ILE:HG21	1.74	0.69
8:h:1283:GLN:O	8:h:1287:MET:HG2	1.93	0.69
2:j:1030:GLY:HA2	2:j:1033:VAL:HG23	1.73	0.69
2:j:1257:LYS:HA	2:j:1260:GLN:HB3	1.75	0.69
6:n:1330:LEU:HB2	6:n:1375:SER:OG	1.93	0.69
7:o:1109:MET:HG2	7:o:1514:THR:HG22	1.74	0.69
8:p:1283:GLN:O	8:p:1287:MET:HG2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:459:LEU:HB2	2:B:472:LEU:HD21	1.73	0.69
3:C:125:LEU:HD22	3:C:445:VAL:HG23	1.74	0.69
6:F:158:LEU:O	6:F:158:LEU:CD1	2.39	0.69
6:F:209:PHE:HB2	6:F:378:ILE:HB	1.75	0.69
6:F:354:VAL:HG22	6:F:367:VAL:HG13	1.75	0.69
2:J:30:GLY:HA2	2:J:33:VAL:HG23	1.73	0.69
3:K:299:LYS:N	3:K:319:ARG:CB	2.55	0.69
4:L:520:ARG:O	7:O:49:SER:CB	2.36	0.69
2:b:1422:ILE:HG22	2:b:1424:GLY:N	2.08	0.69
5:e:1074:LEU:HG	5:e:1093:GLN:HB3	1.75	0.69
2:j:1329:PHE:C	2:j:1329:PHE:HD2	1.96	0.69
6:n:1433:LYS:HG2	6:n:1444:ILE:HG21	1.74	0.69
8:p:1346:ALA:N	8:p:1347:PRO:CD	2.56	0.69
1:A:94:ILE:HG22	1:A:96:ASP:H	1.56	0.68
1:A:224:LEU:HD11	1:A:226:CYS:HB2	1.75	0.68
2:B:39:PRO:HA	2:B:163:SER:HA	1.74	0.68
6:F:353:LEU:O	6:F:367:VAL:CG1	2.40	0.68
7:G:94:VAL:HG13	7:G:95:GLY:H	1.59	0.68
7:G:450:PRO:HA	7:G:453:LEU:HD12	1.75	0.68
3:K:467:LEU:O	3:K:471:LEU:HB2	1.93	0.68
2:b:1072:PRO:CB	3:c:1047:MET:HE1	2.23	0.68
3:c:1299:LYS:N	3:c:1319:ARG:CB	2.55	0.68
7:g:1237:ASN:C	7:g:1239:PRO:HD3	2.19	0.68
7:g:1450:PRO:HA	7:g:1453:LEU:HD12	1.75	0.68
8:h:1316:TYR:HD2	8:h:1316:TYR:N	1.87	0.68
2:j:1030:GLY:CA	2:j:1033:VAL:HG23	2.24	0.68
1:A:12:THR:HB	1:A:13:LEU:HB2	1.74	0.68
1:A:94:ILE:HG12	1:A:523:SER:HA	1.75	0.68
1:A:517:VAL:C	1:A:518:LEU:HG	2.18	0.68
2:B:328:THR:O	2:B:329:PHE:CD1	2.46	0.68
3:C:299:LYS:N	3:C:319:ARG:CB	2.55	0.68
5:E:251:HIS:O	5:E:253:GLN:N	2.25	0.68
7:G:56:SER:HA	7:G:57:ASN:C	2.16	0.68
2:J:83:VAL:HG21	3:K:384:GLY:O	1.92	0.68
2:J:465:ASN:C	2:J:465:ASN:OD1	2.36	0.68
4:L:367:ARG:C	4:L:369:ASN:H	2.01	0.68
5:M:74:LEU:HG	5:M:93:GLN:HB3	1.75	0.68
6:N:154:ALA:HB2	6:N:402:VAL:HG23	1.73	0.68
8:P:346:ALA:N	8:P:347:PRO:CD	2.56	0.68
1:a:1066:GLY:O	1:a:1069:ILE:HG22	1.94	0.68
1:a:1540:ARG:O	5:e:1070:LEU:HB3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1242:LYS:NZ	2:b:1247:GLY:H	1.89	0.68
2:b:1328:THR:O	2:b:1329:PHE:CG	2.45	0.68
6:f:1330:LEU:HB2	6:f:1375:SER:OG	1.93	0.68
7:g:1042:PRO:O	7:g:1048:GLY:CA	2.40	0.68
8:h:1475:LEU:HB2	8:h:1476:PRO:HD3	1.74	0.68
1:i:1224:LEU:HD11	1:i:1226:CYS:HB2	1.75	0.68
2:j:1005:ILE:O	3:k:1071:ALA:N	2.25	0.68
2:j:1030:GLY:HA2	2:j:1033:VAL:CG2	2.22	0.68
2:j:1328:THR:O	2:j:1329:PHE:CD1	2.46	0.68
6:n:1501:PRO:CB	6:n:1506:ILE:HB	2.17	0.68
6:F:420:ILE:HG22	6:F:482:ASP:OD1	1.94	0.68
2:J:30:GLY:CA	2:J:33:VAL:HG23	2.24	0.68
4:L:169:PHE:O	4:L:173:LEU:HD13	1.92	0.68
8:P:6:PRO:HB3	8:P:7:GLN:HA	1.75	0.68
8:P:316:TYR:HD2	8:P:316:TYR:N	1.87	0.68
2:b:1414:ALA:O	2:b:1417:THR:HG22	1.92	0.68
3:c:1467:LEU:O	3:c:1471:LEU:HB2	1.93	0.68
6:f:1321:LYS:HA	6:f:1321:LYS:HE3	1.75	0.68
6:f:1420:ILE:HG22	6:f:1482:ASP:OD1	1.94	0.68
2:j:1295:GLU:C	6:n:1337:GLN:HE22	2.00	0.68
3:k:1265:LYS:NZ	3:k:1268:ASP:CB	2.55	0.68
6:n:1321:LYS:HA	6:n:1321:LYS:HE3	1.75	0.68
7:o:1237:ASN:C	7:o:1239:PRO:HD3	2.18	0.68
8:p:1006:PRO:HB3	8:p:1007:GLN:HA	1.76	0.68
1:A:66:GLY:O	1:A:69:ILE:HG22	1.94	0.68
4:D:71:LEU:CA	8:P:6:PRO:CG	2.71	0.68
2:J:4:GLN:CB	2:J:5:ILE:HG12	2.24	0.68
2:J:329:PHE:C	2:J:329:PHE:HD2	1.95	0.68
2:J:422:ILE:HG22	2:J:424:GLY:N	2.08	0.68
4:L:159:SER:O	4:L:161:LYS:HD3	1.93	0.68
4:L:404:LEU:HD22	4:L:410:LEU:HG	1.74	0.68
6:N:141:THR:HB	6:N:409:LYS:HG3	1.75	0.68
6:N:330:LEU:HB2	6:N:375:SER:OG	1.93	0.68
2:b:1475:ASN:ND2	2:b:1475:ASN:N	2.38	0.68
3:c:1335:THR:HB	8:h:1237:LYS:HE2	1.75	0.68
4:d:1181:ILE:HD13	4:d:1373:PRO:O	1.94	0.68
1:i:1299:THR:HG23	1:i:1326:LEU:HD12	1.74	0.68
3:k:1299:LYS:N	3:k:1319:ARG:CB	2.55	0.68
3:k:1467:LEU:O	3:k:1471:LEU:HB2	1.93	0.68
4:l:1367:ARG:C	4:l:1369:ASN:H	2.01	0.68
2:B:30:GLY:CA	2:B:33:VAL:HG23	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:357:SER:C	2:B:360:LYS:CB	2.66	0.68
4:D:77:MET:HE1	7:G:384:GLN:HB2	1.76	0.68
5:E:74:LEU:HG	5:E:93:GLN:HB3	1.75	0.68
6:F:141:THR:HB	6:F:409:LYS:HG3	1.75	0.68
6:F:233:VAL:HG13	6:F:351:SER:HB3	1.76	0.68
6:F:433:LYS:HG2	6:F:444:ILE:HG21	1.74	0.68
7:G:109:MET:HG2	7:G:514:THR:HG22	1.74	0.68
2:J:285:ILE:HD11	2:J:289:LEU:CD2	2.24	0.68
2:J:402:LEU:HD21	2:J:483:ARG:HG3	1.74	0.68
6:N:354:VAL:HG22	6:N:367:VAL:HG13	1.75	0.68
1:a:1094:ILE:HG12	1:a:1523:SER:HA	1.75	0.68
3:c:1225:LEU:HD13	3:c:1320:VAL:HG13	1.73	0.68
6:f:1224:MET:CE	6:f:1316:ALA:H	2.06	0.68
1:i:1066:GLY:O	1:i:1069:ILE:HG22	1.94	0.68
7:o:1056:SER:HA	7:o:1057:ASN:C	2.17	0.68
7:o:1516:LEU:HD11	7:o:1517:ILE:HG12	1.75	0.68
6:F:7:ASN:OD1	6:F:8:PRO:N	2.25	0.68
7:G:237:ASN:C	7:G:239:PRO:HD3	2.18	0.68
8:H:283:GLN:O	8:H:287:MET:HG2	1.93	0.68
8:P:24:ALA:HB2	8:P:531:ALA:HB1	1.76	0.68
5:e:1166:ASP:HB3	5:e:1167:ASP:CB	2.23	0.68
6:f:1170:LEU:O	6:f:1173:ILE:HG22	1.94	0.68
8:h:1249:VAL:HG22	8:h:1300:VAL:HB	1.75	0.68
2:j:1465:ASN:C	2:j:1465:ASN:OD1	2.36	0.68
4:l:1169:PHE:O	4:l:1173:LEU:HD13	1.92	0.68
4:l:1178:VAL:HG11	4:l:1401:ILE:HD11	1.76	0.68
2:B:402:LEU:HD21	2:B:483:ARG:HG3	1.74	0.68
4:D:178:VAL:HG11	4:D:401:ILE:HD11	1.76	0.68
4:D:461:ASN:HB3	4:D:464:LYS:HG2	1.75	0.68
8:H:249:VAL:HG22	8:H:300:VAL:HB	1.75	0.68
2:J:295:GLU:OE2	6:N:338:ASN:HB2	1.92	0.68
2:J:414:ALA:O	2:J:417:THR:HG22	1.92	0.68
5:M:166:ASP:HB3	5:M:167:ASP:CB	2.23	0.68
8:h:1346:ALA:N	8:h:1347:PRO:CD	2.56	0.68
2:j:1019:ARG:NH2	2:j:1512:ASP:H	1.92	0.68
4:l:1159:SER:O	4:l:1161:LYS:HD3	1.93	0.68
6:n:1154:ALA:HB2	6:n:1402:VAL:HG23	1.73	0.68
6:n:1209:PHE:HB2	6:n:1378:ILE:HB	1.75	0.68
7:o:1121:SER:HB2	7:o:1124:LEU:HD23	1.74	0.68
1:A:289:ILE:HA	1:A:293:ALA:HB2	1.76	0.68
2:B:19:ARG:NH2	2:B:512:ASP:H	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:181:ILE:HD13	4:D:373:PRO:O	1.94	0.68
4:L:178:VAL:HG11	4:L:401:ILE:HD11	1.76	0.68
6:N:154:ALA:O	6:N:157:SER:OG	2.12	0.68
6:N:224:MET:CE	6:N:316:ALA:H	2.06	0.68
3:c:1125:LEU:HD22	3:c:1445:VAL:HG23	1.74	0.68
4:d:1015:GLU:O	4:d:1523:ASP:OD2	2.11	0.68
4:d:1367:ARG:C	4:d:1369:ASN:H	2.01	0.68
4:d:1461:ASN:HB3	4:d:1464:LYS:HG2	1.75	0.68
6:f:1154:ALA:HB2	6:f:1402:VAL:HG23	1.73	0.68
8:p:1249:VAL:HG22	8:p:1300:VAL:HB	1.75	0.68
2:B:465:ASN:C	2:B:465:ASN:OD1	2.36	0.68
8:H:131:TYR:HD2	8:H:452:PHE:HD2	1.42	0.68
8:H:291:ILE:HD12	8:H:347:PRO:CG	2.24	0.68
1:I:517:VAL:C	1:I:518:LEU:HG	2.18	0.68
3:K:250:LEU:HG	3:K:301:VAL:CB	2.23	0.68
4:L:15:GLU:O	4:L:523:ASP:OD2	2.11	0.68
1:a:1517:VAL:C	1:a:1518:LEU:HG	2.18	0.68
3:c:1250:LEU:HD21	3:c:1301:VAL:HB	1.74	0.68
3:c:1265:LYS:NZ	3:c:1268:ASP:CB	2.55	0.68
4:d:1134:ILE:CD1	4:d:1424:ARG:HD3	2.20	0.68
4:d:1178:VAL:HG11	4:d:1401:ILE:HD11	1.76	0.68
6:f:1209:PHE:HB2	6:f:1378:ILE:HB	1.75	0.68
8:h:1024:ALA:HB2	8:h:1531:ALA:HB1	1.76	0.68
1:i:1289:ILE:HA	1:i:1293:ALA:HB2	1.76	0.68
4:l:1482:ILE:HD13	4:l:1482:ILE:H	1.57	0.68
7:o:1282:LEU:HD22	7:o:1307:PHE:HB3	1.76	0.68
3:C:250:LEU:HG	3:C:301:VAL:CB	2.23	0.68
5:E:34:ASP:O	6:N:117:ILE:HD12	1.94	0.68
6:F:43:LEU:HD23	6:F:57:LYS:CB	2.20	0.68
3:K:332:THR:HB	3:K:349:GLY:HA3	1.76	0.68
4:L:521:ILE:HG23	7:O:50:ASP:O	1.94	0.68
7:O:237:ASN:C	7:O:239:PRO:HD3	2.18	0.68
7:O:409:ILE:HG22	7:O:410:VAL:H	1.59	0.68
8:P:291:ILE:HD12	8:P:347:PRO:CG	2.24	0.68
2:b:1030:GLY:CA	2:b:1033:VAL:HG23	2.24	0.68
8:h:1291:ILE:HD12	8:h:1347:PRO:CG	2.24	0.68
2:B:285:ILE:HD11	2:B:289:LEU:CD2	2.24	0.67
4:D:367:ARG:C	4:D:369:ASN:H	2.01	0.67
8:H:6:PRO:HB3	8:H:7:GLN:HA	1.76	0.67
1:I:66:GLY:O	1:I:69:ILE:HG22	1.94	0.67
2:J:257:LYS:HA	2:J:260:GLN:HB3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:167:THR:HA	6:N:168:GLU:HB3	1.75	0.67
7:O:42:PRO:O	7:O:48:GLY:CA	2.40	0.67
7:O:94:VAL:HG13	7:O:95:GLY:H	1.59	0.67
1:a:1224:LEU:HD11	1:a:1226:CYS:HB2	1.75	0.67
2:b:1039:PRO:HA	2:b:1163:SER:HA	1.74	0.67
5:e:1039:LYS:NZ	6:n:1109:ILE:HG13	2.09	0.67
6:f:1233:VAL:HG13	6:f:1351:SER:HB3	1.76	0.67
7:g:1241:ILE:HB	7:g:1330:VAL:HG11	1.77	0.67
7:g:1413:GLY:HA2	9:g:1601:ADP:C2	2.29	0.67
8:h:1131:TYR:HD2	8:h:1452:PHE:HD2	1.42	0.67
1:i:1094:ILE:HG12	1:i:1523:SER:HA	1.75	0.67
2:j:1045:LEU:HB2	6:n:1533:LEU:CB	2.24	0.67
2:j:1422:ILE:HG22	2:j:1424:GLY:N	2.08	0.67
6:n:1170:LEU:O	6:n:1173:ILE:HG22	1.94	0.67
8:p:1291:ILE:HD12	8:p:1347:PRO:CG	2.24	0.67
2:B:311:PHE:O	2:B:315:GLU:HG2	1.93	0.67
3:C:332:THR:HB	3:C:349:GLY:HA3	1.76	0.67
5:E:88:ALA:HB1	5:E:109:LYS:HZ1	1.60	0.67
6:F:203:SER:C	6:F:205:LYS:H	2.03	0.67
6:F:330:LEU:HB2	6:F:375:SER:OG	1.93	0.67
6:F:352:GLY:O	6:F:367:VAL:HG11	1.91	0.67
7:G:241:ILE:HB	7:G:330:VAL:HG11	1.77	0.67
7:G:448:VAL:HG12	7:G:452:GLN:NE2	2.09	0.67
7:G:492:PHE:HA	7:G:497:TRP:HE1	1.59	0.67
6:N:423:SER:O	6:N:427:ARG:HG3	1.94	0.67
1:i:1064:ASN:ND2	1:i:1166:SER:O	2.27	0.67
4:l:1100:THR:HG22	4:l:1515:VAL:HG13	1.77	0.67
5:m:1088:ALA:HB1	5:m:1109:LYS:HZ1	1.57	0.67
6:n:1151:LEU:HB3	6:n:1175:THR:OG1	1.95	0.67
6:n:1423:SER:O	6:n:1427:ARG:HG3	1.94	0.67
6:n:1485:GLU:HB3	6:n:1488:TYR:CB	2.24	0.67
7:o:1042:PRO:O	7:o:1048:GLY:CA	2.40	0.67
2:B:243:VAL:HG12	2:B:245:ILE:H	1.59	0.67
3:C:94:THR:HG23	10:C:1102:BEF:F1	1.82	0.67
4:D:241:ILE:H	4:D:241:ILE:HD12	1.60	0.67
6:F:170:LEU:O	6:F:173:ILE:HG22	1.94	0.67
1:I:64:ASN:ND2	1:I:166:SER:O	2.27	0.67
1:I:289:ILE:HA	1:I:293:ALA:HB2	1.76	0.67
2:J:246:PHE:CD1	2:J:246:PHE:C	2.73	0.67
6:N:501:PRO:CB	6:N:506:ILE:HB	2.17	0.67
7:O:241:ILE:HB	7:O:330:VAL:HG11	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:450:PRO:HA	7:O:453:LEU:HD12	1.75	0.67
8:P:249:VAL:HG22	8:P:300:VAL:HB	1.76	0.67
2:b:1257:LYS:HA	2:b:1260:GLN:HB3	1.75	0.67
2:b:1465:ASN:C	2:b:1465:ASN:OD1	2.36	0.67
4:d:1100:THR:HG22	4:d:1515:VAL:HG13	1.77	0.67
6:f:1203:SER:C	6:f:1205:LYS:H	2.03	0.67
7:g:1282:LEU:HD22	7:g:1307:PHE:HB3	1.76	0.67
7:g:1317:ARG:O	7:g:1317:ARG:HG3	1.94	0.67
7:g:1448:VAL:HG12	7:g:1452:GLN:NE2	2.09	0.67
8:h:1335:VAL:HG13	8:h:1379:SER:HB3	1.75	0.67
1:i:1012:THR:CG2	5:m:1097:ASP:H	2.06	0.67
2:j:1255:THR:HA	2:j:1258:LEU:HD13	1.77	0.67
4:l:1015:GLU:O	4:l:1523:ASP:OD2	2.11	0.67
2:B:237:THR:N	2:B:287:ARG:HG3	2.10	0.67
2:B:422:ILE:HG22	2:B:424:GLY:N	2.08	0.67
8:H:54:ILE:CG1	8:H:64:ILE:HG12	2.13	0.67
1:I:94:ILE:HG12	1:I:523:SER:HA	1.75	0.67
2:J:422:ILE:HB	2:J:427:SER:CB	2.15	0.67
6:N:209:PHE:HB2	6:N:378:ILE:HB	1.75	0.67
8:P:283:GLN:O	8:P:287:MET:HG2	1.93	0.67
2:b:1285:ILE:HD11	2:b:1289:LEU:CD2	2.24	0.67
3:c:1332:THR:HB	3:c:1349:GLY:HA3	1.76	0.67
2:j:1263:LYS:HZ1	3:k:1266:GLU:CB	2.03	0.67
5:m:1074:LEU:HG	5:m:1093:GLN:HB3	1.75	0.67
7:o:1090:GLN:CG	7:o:1101:VAL:HG21	2.24	0.67
7:o:1241:ILE:HB	7:o:1330:VAL:HG11	1.77	0.67
7:o:1317:ARG:O	7:o:1317:ARG:HG3	1.95	0.67
1:A:64:ASN:ND2	1:A:166:SER:O	2.27	0.67
2:B:295:GLU:OE2	6:F:338:ASN:HB2	1.93	0.67
4:D:521:ILE:CG2	7:G:50:ASP:O	2.42	0.67
5:E:34:ASP:CA	6:N:117:ILE:CD1	2.66	0.67
7:G:162:ALA:HB3	7:G:179:VAL:HG13	1.77	0.67
4:L:100:THR:HG22	4:L:515:VAL:HG13	1.77	0.67
6:N:321:LYS:HA	6:N:321:LYS:HE3	1.75	0.67
1:a:1258:MET:HA	1:a:1258:MET:HE3	1.77	0.67
2:b:1037:LEU:HA	9:b:1601:ADP:H5'1	1.76	0.67
2:b:1208:LEU:HD13	2:b:1366:THR:HG22	1.76	0.67
2:b:1475:ASN:HD22	2:b:1475:ASN:N	1.92	0.67
5:m:1337:GLN:C	5:m:1338:ASN:HD22	2.03	0.67
6:n:1043:LEU:HD23	6:n:1057:LYS:CB	2.20	0.67
6:n:1083:GLN:HG3	6:n:1094:VAL:CG2	2.18	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1450:PRO:HA	7:o:1453:LEU:HD12	1.75	0.67
1:A:258:MET:HA	1:A:258:MET:HE3	1.77	0.67
4:D:69:ALA:O	8:H:15:LYS:HE2	1.94	0.67
5:E:337:GLN:C	5:E:338:ASN:HD22	2.03	0.67
8:H:334:ARG:HG2	8:H:380:ARG:HB3	1.77	0.67
1:I:66:GLY:H	1:I:99:THR:HG22	1.60	0.67
2:J:19:ARG:NH2	2:J:512:ASP:H	1.92	0.67
3:K:108:ALA:N	3:K:109:PRO:HD2	2.10	0.67
5:M:251:HIS:O	5:M:253:GLN:N	2.24	0.67
6:N:485:GLU:HB3	6:N:488:TYR:CB	2.24	0.67
3:c:1108:ALA:N	3:c:1109:PRO:HD2	2.10	0.67
4:d:1334:ALA:HB3	7:g:1305:GLN:HB2	1.76	0.67
2:j:1263:LYS:HZ3	3:k:1266:GLU:CB	2.00	0.67
4:l:1077:MET:HE1	7:o:1384:GLN:HB2	1.76	0.67
7:o:1162:ALA:HB3	7:o:1179:VAL:HG13	1.77	0.67
7:o:1409:ILE:HG22	7:o:1410:VAL:H	1.59	0.67
1:A:66:GLY:H	1:A:99:THR:HG22	1.60	0.67
2:B:246:PHE:CD1	2:B:246:PHE:C	2.73	0.67
4:D:100:THR:HG22	4:D:515:VAL:HG13	1.77	0.67
6:F:151:LEU:HB3	6:F:175:THR:OG1	1.95	0.67
7:G:226:TYR:CE1	7:G:229:PHE:C	2.73	0.67
7:G:282:LEU:HD22	7:G:307:PHE:HB3	1.76	0.67
1:I:348:GLU:CB	1:I:349:THR:HA	2.25	0.67
6:N:170:LEU:O	6:N:173:ILE:HG22	1.94	0.67
7:O:492:PHE:HA	7:O:497:TRP:HE1	1.59	0.67
8:P:335:VAL:HG13	8:P:379:SER:HB3	1.75	0.67
2:b:1004:GLN:CB	2:b:1005:ILE:HG12	2.24	0.67
3:c:1057:LEU:N	3:c:1057:LEU:CD2	2.57	0.67
6:f:1151:LEU:HB3	6:f:1175:THR:OG1	1.95	0.67
1:i:1123:THR:HG21	5:m:1068:ARG:HE	1.57	0.67
2:j:1004:GLN:CB	2:j:1005:ILE:HG12	2.24	0.67
2:j:1285:ILE:HD11	2:j:1289:LEU:CD2	2.24	0.67
5:m:1166:ASP:HB3	5:m:1167:ASP:CB	2.23	0.67
6:n:1233:VAL:HG13	6:n:1351:SER:HB3	1.75	0.67
6:n:1354:VAL:HG22	6:n:1367:VAL:HG13	1.75	0.67
2:B:34:LYS:O	2:B:36:THR:N	2.27	0.67
4:D:185:ASN:H	4:D:186:SER:C	2.02	0.67
6:F:485:GLU:HB3	6:F:488:TYR:CB	2.25	0.67
4:L:181:ILE:HD13	4:L:373:PRO:O	1.94	0.67
4:L:461:ASN:HB3	4:L:464:LYS:HG2	1.75	0.67
6:N:16:ASP:HA	6:N:19:LEU:CD1	2.20	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:280:LEU:HD23	6:N:280:LEU:H	1.60	0.67
7:O:282:LEU:HD22	7:O:307:PHE:HB3	1.76	0.67
5:e:1509:ASN:O	5:e:1522:MET:N	2.24	0.67
6:f:1280:LEU:HD23	6:f:1280:LEU:H	1.59	0.67
6:f:1485:GLU:HB3	6:f:1488:TYR:CB	2.24	0.67
3:k:1108:ALA:N	3:k:1109:PRO:HD2	2.10	0.67
4:l:1521:ILE:HG21	7:o:1052:LEU:H	1.60	0.67
8:p:1131:TYR:HD2	8:p:1452:PHE:HD2	1.42	0.67
4:D:528:ARG:H	4:D:528:ARG:HE	1.43	0.67
6:F:53:ILE:C	6:F:53:ILE:CD1	2.62	0.67
6:F:187:ASP:O	6:F:188:ASN:CB	2.43	0.67
6:F:423:SER:O	6:F:427:ARG:HG3	1.94	0.67
8:H:6:PRO:O	7:O:58:GLN:NE2	2.28	0.67
6:N:187:ASP:O	6:N:188:ASN:CB	2.43	0.67
7:O:162:ALA:HB3	7:O:179:VAL:HG13	1.77	0.67
1:a:1054:VAL:HG12	1:a:1056:ASP:H	1.60	0.67
2:b:1023:PHE:HA	2:b:1103:LEU:HD13	1.77	0.67
6:f:1043:LEU:HD23	6:f:1057:LYS:CB	2.20	0.67
6:f:1331:VAL:O	6:f:1332:THR:OG1	2.12	0.67
6:f:1423:SER:O	6:f:1427:ARG:HG3	1.94	0.67
7:g:1226:TYR:CE1	7:g:1229:PHE:C	2.73	0.67
1:i:1348:GLU:CB	1:i:1349:THR:HA	2.25	0.67
4:l:1524:ILE:CG2	7:o:1052:LEU:O	2.43	0.67
7:o:1226:TYR:CE1	7:o:1229:PHE:C	2.73	0.67
7:o:1448:VAL:HG12	7:o:1452:GLN:NE2	2.09	0.67
4:D:233:LYS:HA	4:D:345:ASP:O	1.95	0.67
5:E:355:ALA:HB3	6:F:222:PRO:HG2	1.76	0.67
4:L:9:ALA:HB1	7:O:76:VAL:H	1.60	0.67
8:P:334:ARG:HG2	8:P:380:ARG:HB3	1.77	0.67
1:a:1066:GLY:H	1:a:1099:THR:HG22	1.60	0.67
7:g:1094:VAL:HG13	7:g:1095:GLY:H	1.59	0.67
8:h:1334:ARG:HG2	8:h:1380:ARG:HB3	1.77	0.67
1:i:1012:THR:CB	5:m:1096:LEU:HA	2.24	0.67
4:l:1461:ASN:HB3	4:l:1464:LYS:HG2	1.75	0.67
6:n:1280:LEU:HD23	6:n:1280:LEU:H	1.59	0.67
6:n:1541:LEU:HB3	6:n:1543:GLU:H	1.60	0.67
8:p:1204:VAL:HG13	8:p:1405:VAL:CG1	2.25	0.67
3:C:467:LEU:HD21	3:C:491:ILE:HG21	1.78	0.66
6:F:195:GLU:OE1	6:F:197:MET:SD	2.53	0.66
6:F:224:MET:CE	6:F:316:ALA:H	2.06	0.66
1:I:397:GLU:HG2	1:I:400:ARG:HH11	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:226:TYR:CE1	7:O:229:PHE:C	2.73	0.66
3:c:1467:LEU:HD21	3:c:1491:ILE:HG21	1.78	0.66
7:g:1492:PHE:HA	7:g:1497:TRP:HE1	1.59	0.66
4:l:1185:ASN:H	4:l:1186:SER:C	2.02	0.66
7:o:1492:PHE:HA	7:o:1497:TRP:HE1	1.59	0.66
1:A:507:GLY:O	1:A:508:LYS:CB	2.43	0.66
7:G:91:ASP:O	7:G:95:GLY:HA2	1.95	0.66
1:I:258:MET:HA	1:I:258:MET:HE3	1.77	0.66
2:J:237:THR:N	2:J:287:ARG:HG3	2.10	0.66
4:L:24:ASN:HD21	4:L:524:ILE:HD11	1.60	0.66
7:O:108:LEU:HD11	7:O:511:THR:HG22	1.77	0.66
7:O:448:VAL:HG12	7:O:452:GLN:NE2	2.09	0.66
2:b:1019:ARG:NH2	2:b:1512:ASP:H	1.92	0.66
2:b:1514:ILE:CD1	3:c:1047:MET:HB3	2.19	0.66
4:d:1185:ASN:H	4:d:1186:SER:C	2.02	0.66
2:j:1243:VAL:HG12	2:j:1245:ILE:H	1.59	0.66
3:k:1456:LEU:CD2	9:k:2101:ADP:H5'1	2.26	0.66
7:o:1108:LEU:HD11	7:o:1511:THR:HG22	1.77	0.66
8:p:1024:ALA:HB2	8:p:1531:ALA:HB1	1.76	0.66
1:A:348:GLU:CB	1:A:349:THR:HA	2.25	0.66
2:B:206:SER:CB	2:B:368:VAL:HG13	2.26	0.66
4:D:24:ASN:HD21	4:D:524:ILE:HD11	1.60	0.66
9:D:601:ADP:O3'	9:D:601:ADP:H8	1.78	0.66
7:G:483:PHE:CB	9:G:601:ADP:HN62	2.08	0.66
8:H:24:ALA:HB2	8:H:531:ALA:HB1	1.76	0.66
2:J:72:PRO:CB	3:K:47:MET:HE1	2.26	0.66
3:K:264:GLU:C	3:K:265:LYS:CG	2.62	0.66
3:K:265:LYS:NZ	3:K:268:ASP:CB	2.55	0.66
3:K:467:LEU:HD21	3:K:491:ILE:HG21	1.77	0.66
4:L:241:ILE:H	4:L:241:ILE:HD12	1.60	0.66
8:P:131:TYR:HD2	8:P:452:PHE:HD2	1.42	0.66
1:a:1348:GLU:CB	1:a:1349:THR:HA	2.25	0.66
2:b:1005:ILE:HG13	2:b:1006:PHE:N	2.09	0.66
3:k:1332:THR:HB	3:k:1349:GLY:HA3	1.77	0.66
4:l:1024:ASN:HA	4:l:1074:VAL:HG21	1.77	0.66
7:G:343:PRO:HA	7:G:346:LEU:HD21	1.78	0.66
7:G:410:VAL:HG12	7:G:498:GLU:O	1.95	0.66
2:J:49:ALA:HB1	6:N:538:ARG:HB2	1.78	0.66
4:L:24:ASN:HA	4:L:74:VAL:HG21	1.77	0.66
7:O:317:ARG:HG3	7:O:317:ARG:O	1.94	0.66
2:j:1237:THR:N	2:j:1287:ARG:HG3	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l:1181:ILE:HD13	4:l:1373:PRO:O	1.94	0.66
7:o:1094:VAL:HG13	7:o:1095:GLY:H	1.59	0.66
8:p:1024:ALA:CA	8:p:1531:ALA:O	2.43	0.66
1:A:397:GLU:HG2	1:A:400:ARG:HH11	1.61	0.66
2:B:4:GLN:CB	2:B:5:ILE:HG12	2.24	0.66
2:B:23:PHE:HA	2:B:103:LEU:HD13	1.77	0.66
2:B:165:ILE:HG12	6:F:529:LEU:HD13	1.76	0.66
2:B:255:THR:HA	2:B:258:LEU:HD13	1.77	0.66
3:C:264:GLU:C	3:C:265:LYS:CG	2.62	0.66
4:D:44:MET:HG3	8:H:531:ALA:HB3	1.77	0.66
7:G:317:ARG:HG3	7:G:317:ARG:O	1.95	0.66
8:H:204:VAL:HG13	8:H:405:VAL:CG1	2.25	0.66
1:I:431:ILE:HG12	1:I:482:ALA:CB	2.25	0.66
2:J:463:ILE:O	2:J:467:ILE:CA	2.44	0.66
4:L:528:ARG:H	4:L:528:ARG:HE	1.43	0.66
6:N:203:SER:C	6:N:205:LYS:H	2.03	0.66
6:N:541:LEU:HB3	6:N:543:GLU:H	1.60	0.66
1:a:1064:ASN:ND2	1:a:1166:SER:O	2.27	0.66
2:b:1008:ASP:CB	2:b:1009:GLN:HA	2.22	0.66
5:e:1088:ALA:HB1	5:e:1109:LYS:HZ1	1.60	0.66
6:f:1352:GLY:O	6:f:1367:VAL:HG11	1.91	0.66
1:i:1054:VAL:HG12	1:i:1056:ASP:H	1.60	0.66
1:i:1122:PRO:HG3	5:m:1070:LEU:HD11	1.76	0.66
1:i:1507:GLY:O	1:i:1508:LYS:CB	2.43	0.66
3:k:1467:LEU:HD21	3:k:1491:ILE:HG21	1.77	0.66
4:l:1233:LYS:HA	4:l:1345:ASP:O	1.95	0.66
4:l:1241:ILE:HD12	4:l:1241:ILE:H	1.60	0.66
6:n:1174:VAL:HG13	6:n:1399:LEU:HD13	1.78	0.66
6:n:1195:GLU:OE1	6:n:1197:MET:SD	2.53	0.66
6:n:1420:ILE:HG22	6:n:1482:ASP:OD1	1.94	0.66
4:L:233:LYS:HA	4:L:345:ASP:O	1.95	0.66
5:M:337:GLN:C	5:M:338:ASN:HD22	2.03	0.66
6:N:352:GLY:CA	6:N:369:GLU:C	2.48	0.66
5:e:1166:ASP:H	5:e:1167:ASP:HB2	1.60	0.66
6:f:1083:GLN:HG3	6:f:1094:VAL:CG2	2.18	0.66
6:f:1195:GLU:OE1	6:f:1197:MET:SD	2.53	0.66
7:g:1070:LEU:HB3	7:g:1084:VAL:HG13	1.78	0.66
7:g:1091:ASP:O	7:g:1095:GLY:HA2	1.95	0.66
2:j:1463:ILE:O	2:j:1467:ILE:CA	2.44	0.66
3:k:1269:TRP:HH2	6:n:1248:ASN:H	1.44	0.66
6:n:1203:SER:C	6:n:1205:LYS:H	2.03	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1091:ASP:O	7:o:1095:GLY:HA2	1.95	0.66
4:D:252:ILE:HB	8:H:262:LYS:O	1.96	0.66
6:F:451:LEU:O	6:F:455:PRO:CD	2.44	0.66
4:L:254:VAL:HG22	8:P:265:VAL:HA	1.77	0.66
6:N:75:LEU:HD22	6:N:527:LEU:HD11	1.78	0.66
7:O:516:LEU:HD11	7:O:517:ILE:HG12	1.75	0.66
2:b:1243:VAL:HG12	2:b:1245:ILE:H	1.60	0.66
7:g:1410:VAL:HG12	7:g:1498:GLU:O	1.95	0.66
1:i:1258:MET:HA	1:i:1258:MET:HE3	1.77	0.66
2:j:1300:ASP:O	2:j:1301:LEU:CB	2.44	0.66
5:m:1544:LEU:HD23	6:n:1384:THR:HG21	1.76	0.66
7:o:1343:PRO:HA	7:o:1346:LEU:HD21	1.78	0.66
2:B:444:LEU:HD21	9:B:601:ADP:H1'	1.78	0.66
6:F:541:LEU:HB3	6:F:543:GLU:H	1.60	0.66
7:G:409:ILE:HG22	7:G:410:VAL:H	1.59	0.66
3:K:297:THR:O	3:K:319:ARG:HA	1.96	0.66
6:N:233:VAL:HG13	6:N:351:SER:HB3	1.76	0.66
7:O:410:VAL:HG12	7:O:498:GLU:O	1.95	0.66
8:P:6:PRO:CB	8:P:7:GLN:HA	2.26	0.66
2:b:1300:ASP:O	2:b:1301:LEU:CB	2.44	0.66
4:d:1233:LYS:HA	4:d:1345:ASP:O	1.95	0.66
4:d:1410:LEU:HD13	4:d:1498:LEU:HD22	1.78	0.66
6:f:1541:LEU:HB3	6:f:1543:GLU:H	1.60	0.66
7:g:1045:GLY:HA3	9:g:1601:ADP:C8	2.31	0.66
7:g:1090:GLN:CG	7:g:1101:VAL:HG21	2.24	0.66
8:h:1024:ALA:CA	8:h:1531:ALA:O	2.43	0.66
7:o:1410:VAL:HG12	7:o:1498:GLU:O	1.95	0.66
1:A:54:VAL:HG12	1:A:56:ASP:H	1.60	0.66
1:A:65:ASP:HB3	1:A:68:THR:OG1	1.96	0.66
7:G:108:LEU:HD11	7:G:511:THR:HG22	1.77	0.66
5:M:55:ARG:HG3	5:M:131:ASP:OD2	1.96	0.66
5:M:350:GLU:HA	5:M:352:GLU:OE2	1.96	0.66
7:O:75:VAL:HG21	7:O:84:VAL:HG21	1.78	0.66
7:O:91:ASP:O	7:O:95:GLY:HA2	1.95	0.66
1:a:1507:GLY:O	1:a:1508:LYS:CB	2.43	0.66
2:b:1004:GLN:HG2	3:c:1072:HIS:HB2	1.77	0.66
2:b:1255:THR:HA	2:b:1258:LEU:HD13	1.77	0.66
4:d:1241:ILE:HD12	4:d:1241:ILE:H	1.60	0.66
6:f:1540:THR:HB	6:f:1541:LEU:CD2	2.25	0.66
7:g:1075:VAL:HG21	7:g:1084:VAL:HG21	1.78	0.66
1:i:1066:GLY:H	1:i:1099:THR:HG22	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1005:ILE:HG13	2:j:1006:PHE:N	2.09	0.66
2:j:1023:PHE:HA	2:j:1103:LEU:HD13	1.77	0.66
5:m:1350:GLU:HA	5:m:1352:GLU:OE2	1.96	0.66
6:n:1540:THR:HB	6:n:1541:LEU:CD2	2.25	0.66
1:A:183:ALA:HB1	1:A:383:SER:CB	2.26	0.66
1:A:431:ILE:HG12	1:A:482:ALA:CB	2.25	0.66
5:E:55:ARG:HG3	5:E:131:ASP:OD2	1.96	0.66
6:F:280:LEU:HD23	6:F:280:LEU:H	1.59	0.66
7:G:70:LEU:HB3	7:G:84:VAL:HG13	1.78	0.66
8:H:6:PRO:CB	8:H:7:GLN:HA	2.26	0.66
2:J:3:VAL:O	2:J:5:ILE:HG12	1.96	0.66
2:J:243:VAL:HG12	2:J:245:ILE:H	1.60	0.66
2:J:255:THR:HA	2:J:258:LEU:HD13	1.77	0.66
6:N:151:LEU:HB3	6:N:175:THR:OG1	1.95	0.66
6:N:420:ILE:HG22	6:N:482:ASP:OD1	1.94	0.66
8:P:24:ALA:CA	8:P:531:ALA:O	2.43	0.66
8:P:94:ILE:HD12	8:P:95:ASP:H	1.61	0.66
1:a:1431:ILE:HG12	1:a:1482:ALA:CB	2.25	0.66
1:a:1470:SER:H	3:k:1115:ASN:CB	2.09	0.66
3:c:1269:TRP:CZ3	6:f:1247:VAL:HB	2.31	0.66
3:c:1297:THR:O	3:c:1319:ARG:HA	1.96	0.66
5:e:1350:GLU:HA	5:e:1352:GLU:OE2	1.96	0.66
1:i:1397:GLU:HG2	1:i:1400:ARG:HH11	1.61	0.66
1:i:1549:PRO:HA	5:m:1077:PRO:O	1.96	0.66
3:k:1297:THR:O	3:k:1319:ARG:HA	1.96	0.66
4:l:1024:ASN:HD21	4:l:1524:ILE:HD11	1.60	0.66
4:l:1410:LEU:HD13	4:l:1498:LEU:HD22	1.78	0.66
3:C:108:ALA:N	3:C:109:PRO:HD2	2.10	0.65
2:J:3:VAL:C	2:J:5:ILE:HG23	2.21	0.65
5:M:66:GLY:N	9:M:601:ADP:H5'1	2.07	0.65
7:O:90:GLN:CG	7:O:101:VAL:HG21	2.24	0.65
2:b:1237:THR:N	2:b:1287:ARG:HG3	2.10	0.65
2:b:1246:PHE:CD1	2:b:1246:PHE:C	2.73	0.65
7:g:1162:ALA:HB3	7:g:1179:VAL:HG13	1.77	0.65
8:h:1094:ILE:HD12	8:h:1095:ASP:H	1.61	0.65
8:h:1204:VAL:HG13	8:h:1405:VAL:CG1	2.25	0.65
2:j:1459:LEU:HD22	2:j:1472:LEU:CG	2.26	0.65
6:F:75:LEU:HD22	6:F:527:LEU:HD11	1.78	0.65
2:J:30:GLY:C	2:J:33:VAL:HG23	2.22	0.65
6:N:195:GLU:OE1	6:N:197:MET:SD	2.53	0.65
1:a:1183:ALA:HB1	1:a:1383:SER:CB	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1419:TYR:CZ	6:f:1513:LEU:HD21	2.32	0.65
1:i:1431:ILE:HG12	1:i:1482:ALA:CB	2.25	0.65
2:j:1003:VAL:C	2:j:1005:ILE:HG23	2.21	0.65
4:l:1528:ARG:H	4:l:1528:ARG:HE	1.43	0.65
7:o:1083:LEU:HD23	7:o:1086:ILE:HD11	1.78	0.65
8:p:1094:ILE:HD12	8:p:1095:ASP:H	1.61	0.65
2:B:3:VAL:C	2:B:5:ILE:HG23	2.21	0.65
4:D:185:ASN:N	4:D:186:SER:O	2.30	0.65
6:F:154:ALA:O	6:F:157:SER:OG	2.12	0.65
6:F:478:ASP:C	6:F:482:ASP:HB2	2.21	0.65
8:H:94:ILE:HD12	8:H:95:ASP:H	1.61	0.65
2:J:263:LYS:HZ1	3:K:266:GLU:CB	2.09	0.65
2:J:300:ASP:O	2:J:301:LEU:CB	2.44	0.65
6:N:451:LEU:O	6:N:455:PRO:CD	2.44	0.65
2:b:1030:GLY:C	2:b:1033:VAL:HG23	2.22	0.65
2:b:1295:GLU:HB2	6:f:1337:GLN:NE2	2.11	0.65
2:b:1463:ILE:O	2:b:1467:ILE:CA	2.44	0.65
4:d:1024:ASN:HA	4:d:1074:VAL:HG21	1.77	0.65
7:g:1083:LEU:HD23	7:g:1086:ILE:HD11	1.78	0.65
1:i:1065:ASP:HB3	1:i:1068:THR:OG1	1.96	0.65
2:j:1246:PHE:CD1	2:j:1246:PHE:C	2.73	0.65
3:k:1015:THR:O	3:k:1016:THR:C	2.39	0.65
6:n:1187:ASP:O	6:n:1188:ASN:CB	2.43	0.65
4:D:254:VAL:CG2	8:H:265:VAL:HA	2.25	0.65
1:I:183:ALA:HB1	1:I:383:SER:CB	2.26	0.65
2:J:319:LEU:HD21	2:J:357:SER:OG	1.97	0.65
2:J:492:LYS:HE2	2:J:493:LEU:N	2.12	0.65
6:N:353:LEU:O	6:N:367:VAL:HG13	1.97	0.65
1:a:1065:ASP:HB3	1:a:1068:THR:OG1	1.96	0.65
4:d:1528:ARG:H	4:d:1528:ARG:HE	1.43	0.65
5:e:1337:GLN:C	5:e:1338:ASN:HD22	2.03	0.65
7:g:1045:GLY:HA3	9:g:1601:ADP:N7	2.11	0.65
7:g:1086:ILE:HA	7:g:1089:ALA:HB3	1.79	0.65
2:j:1004:GLN:HG2	3:k:1072:HIS:HB2	1.78	0.65
2:j:1027:ILE:CD1	2:j:1104:ARG:HH11	2.09	0.65
2:j:1319:LEU:HD21	2:j:1357:SER:OG	1.97	0.65
4:l:1217:GLN:NE2	4:l:1316:ILE:HA	2.12	0.65
5:m:1350:GLU:C	5:m:1352:GLU:N	2.55	0.65
6:n:1352:GLY:O	6:n:1367:VAL:HG11	1.91	0.65
4:D:297:VAL:HB	4:D:298:ASN:HA	1.78	0.65
8:H:24:ALA:CA	8:H:531:ALA:O	2.43	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:57:LEU:N	3:K:57:LEU:CD2	2.57	0.65
3:K:269:TRP:HH2	6:N:248:ASN:N	1.82	0.65
6:N:540:THR:HB	6:N:541:LEU:CD2	2.25	0.65
1:a:1187:VAL:HG23	1:a:1383:SER:HB3	1.79	0.65
3:c:1122:ILE:HD13	3:c:1522:ARG:HG2	1.79	0.65
4:d:1297:VAL:HB	4:d:1298:ASN:HA	1.78	0.65
2:j:1409:MET:HB3	2:j:1463:ILE:HD13	1.78	0.65
5:m:1055:ARG:HG3	5:m:1131:ASP:OD2	1.96	0.65
8:p:1006:PRO:CB	8:p:1007:GLN:HA	2.26	0.65
2:B:402:LEU:HD11	2:B:483:ARG:HE	1.62	0.65
3:C:122:ILE:HD13	3:C:522:ARG:HG2	1.79	0.65
7:G:75:VAL:HG21	7:G:84:VAL:HG21	1.78	0.65
8:H:250:PHE:HE2	8:H:299:ILE:HD12	1.62	0.65
1:I:65:ASP:HB3	1:I:68:THR:OG1	1.96	0.65
2:J:459:LEU:HD22	2:J:472:LEU:CG	2.26	0.65
4:L:297:VAL:HB	4:L:298:ASN:HA	1.78	0.65
8:P:250:PHE:HE2	8:P:299:ILE:HD12	1.61	0.65
1:a:1397:GLU:HG2	1:a:1400:ARG:HH11	1.61	0.65
2:b:1402:LEU:HD11	2:b:1483:ARG:HE	1.62	0.65
3:c:1015:THR:O	3:c:1016:THR:C	2.39	0.65
5:e:1039:LYS:HZ3	6:n:1109:ILE:CG1	2.07	0.65
6:f:1501:PRO:CB	6:f:1506:ILE:HB	2.17	0.65
4:l:1154:ALA:HB2	4:l:1175:VAL:HG13	1.79	0.65
4:l:1185:ASN:N	4:l:1186:SER:O	2.30	0.65
6:n:1143:LEU:HD22	6:n:1145:ASN:HB3	1.79	0.65
6:n:1224:MET:CE	6:n:1316:ALA:H	2.06	0.65
1:I:187:VAL:HG23	1:I:383:SER:HB3	1.79	0.65
1:I:507:GLY:O	1:I:508:LYS:CB	2.43	0.65
2:J:5:ILE:HG13	2:J:6:PHE:N	2.09	0.65
2:J:23:PHE:HA	2:J:103:LEU:HD13	1.77	0.65
2:J:393:GLN:HB3	2:J:492:LYS:HE3	1.79	0.65
3:K:15:THR:O	3:K:16:THR:C	2.39	0.65
3:K:255:GLY:H	3:K:259:THR:HG21	1.62	0.65
8:P:300:VAL:HG11	8:P:332:LEU:HD21	1.79	0.65
1:a:1289:ILE:HA	1:a:1293:ALA:HB2	1.76	0.65
2:b:1091:GLY:HA2	9:b:1601:ADP:PA	2.37	0.65
2:b:1492:LYS:HE2	2:b:1493:LEU:N	2.12	0.65
2:j:1030:GLY:C	2:j:1033:VAL:HG23	2.22	0.65
6:n:1419:TYR:CZ	6:n:1513:LEU:HD21	2.32	0.65
6:n:1451:LEU:O	6:n:1455:PRO:CD	2.44	0.65
8:p:1300:VAL:HG11	8:p:1332:LEU:HD21	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:p:1334:ARG:HG2	8:p:1380:ARG:HB3	1.77	0.65
4:D:330:CYS:CB	4:D:345:ASP:OD2	2.44	0.65
6:F:540:THR:HB	6:F:541:LEU:CD2	2.25	0.65
7:G:86:ILE:HA	7:G:89:ALA:HB3	1.79	0.65
1:I:54:VAL:HG12	1:I:56:ASP:H	1.60	0.65
4:L:185:ASN:H	4:L:186:SER:C	2.02	0.65
6:N:540:THR:O	6:N:542:LYS:CG	2.44	0.65
7:O:70:LEU:HB3	7:O:84:VAL:HG13	1.78	0.65
4:d:1024:ASN:HD21	4:d:1524:ILE:HD11	1.60	0.65
5:e:1055:ARG:HG3	5:e:1131:ASP:OD2	1.96	0.65
7:g:1108:LEU:HD11	7:g:1511:THR:HG22	1.77	0.65
1:i:1187:VAL:HG23	1:i:1383:SER:HB3	1.78	0.65
7:o:1086:ILE:HA	7:o:1089:ALA:HB3	1.79	0.65
2:B:8:ASP:CB	2:B:9:GLN:HA	2.22	0.65
2:B:278:LYS:HA	2:B:333:SER:HB3	1.79	0.65
2:B:319:LEU:HD21	2:B:357:SER:OG	1.97	0.65
3:C:266:GLU:CD	3:C:266:GLU:H	2.05	0.65
4:D:24:ASN:HA	4:D:74:VAL:HG21	1.77	0.65
4:D:217:GLN:NE2	4:D:316:ILE:HA	2.12	0.65
6:F:174:VAL:HG13	6:F:399:LEU:HD13	1.77	0.65
7:G:446:LEU:HD21	7:G:507:LEU:HD23	1.78	0.65
2:J:409:MET:HB3	2:J:463:ILE:HD13	1.78	0.65
4:L:154:ALA:HB2	4:L:175:VAL:HG13	1.79	0.65
2:b:1197:LYS:HB3	2:b:1381:GLU:OE1	1.97	0.65
2:b:1319:LEU:HD21	2:b:1357:SER:OG	1.97	0.65
6:f:1075:LEU:HD22	6:f:1527:LEU:HD11	1.78	0.65
6:f:1434:LEU:O	6:f:1438:GLY:CA	2.45	0.65
6:f:1451:LEU:O	6:f:1455:PRO:CD	2.44	0.65
4:l:1038:SER:HB3	4:l:1046:LYS:NZ	2.12	0.65
6:n:1430:ASN:C	6:n:1433:LYS:H	2.05	0.65
3:C:161:THR:H	3:C:165:ILE:HG13	1.62	0.65
3:C:297:THR:O	3:C:319:ARG:HA	1.96	0.65
5:E:350:GLU:HA	5:E:352:GLU:OE2	1.96	0.65
6:F:539:SER:HB2	6:F:542:LYS:CD	2.27	0.65
7:G:454:CYS:HB2	7:G:461:ALA:CB	2.27	0.65
2:J:27:ILE:CD1	2:J:104:ARG:HH11	2.09	0.65
2:J:230:LYS:HA	2:J:337:LEU:O	1.97	0.65
2:J:402:LEU:HD11	2:J:483:ARG:HE	1.62	0.65
7:O:83:LEU:HD23	7:O:86:ILE:HD11	1.78	0.65
4:d:1185:ASN:N	4:d:1186:SER:O	2.30	0.65
6:f:1174:VAL:HG13	6:f:1399:LEU:HD13	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1187:ASP:O	6:f:1188:ASN:CB	2.43	0.65
6:f:1353:LEU:O	6:f:1367:VAL:HG13	1.97	0.65
7:g:1191:ARG:HE	7:g:1191:ARG:CA	1.94	0.65
2:j:1032:LEU:CD1	6:n:1532:GLU:OE2	2.45	0.65
2:j:1083:VAL:HG21	3:k:1384:GLY:O	1.96	0.65
2:j:1197:LYS:HB3	2:j:1381:GLU:OE1	1.97	0.65
3:k:1124:ALA:HB1	3:k:1441:PRO:HB2	1.79	0.65
6:n:1106:HIS:O	6:n:1109:ILE:HG12	1.97	0.65
2:B:21:SER:OG	1:I:8:SER:N	2.30	0.64
2:J:45:LEU:HB2	6:N:533:LEU:CB	2.27	0.64
4:L:38:SER:HB3	4:L:46:LYS:NZ	2.12	0.64
4:L:185:ASN:N	4:L:186:SER:O	2.30	0.64
4:L:214:VAL:HG22	4:L:362:ARG:HG2	1.80	0.64
2:b:1295:GLU:C	6:f:1337:GLN:HE22	2.06	0.64
3:c:1255:GLY:H	3:c:1259:THR:HG21	1.62	0.64
3:c:1266:GLU:CD	3:c:1266:GLU:H	2.05	0.64
4:d:1134:ILE:HD11	4:d:1424:ARG:CG	2.28	0.64
6:f:1540:THR:O	6:f:1542:LYS:CG	2.44	0.64
7:g:1409:ILE:HG22	7:g:1410:VAL:H	1.59	0.64
7:g:1446:LEU:HD21	7:g:1507:LEU:HD23	1.78	0.64
8:h:1300:VAL:HG11	8:h:1332:LEU:HD21	1.79	0.64
1:i:1066:GLY:N	1:i:1099:THR:HG22	2.12	0.64
2:j:1034:LYS:O	2:j:1036:THR:N	2.27	0.64
2:j:1278:LYS:HA	2:j:1333:SER:HB3	1.79	0.64
4:l:1226:PRO:HB2	4:l:1311:MET:HG2	1.79	0.64
6:n:1075:LEU:HD22	6:n:1527:LEU:HD11	1.78	0.64
6:n:1478:ASP:C	6:n:1482:ASP:HB2	2.21	0.64
1:A:45:GLY:H	9:A:601:ADP:H5'1	1.63	0.64
2:B:30:GLY:C	2:B:33:VAL:HG23	2.22	0.64
2:B:206:SER:HB2	2:B:368:VAL:HG22	1.78	0.64
2:B:300:ASP:O	2:B:301:LEU:CB	2.44	0.64
2:B:463:ILE:O	2:B:467:ILE:CA	2.44	0.64
2:B:492:LYS:HE2	2:B:493:LEU:N	2.12	0.64
3:C:255:GLY:H	3:C:259:THR:HG21	1.62	0.64
4:D:38:SER:HB3	4:D:46:LYS:NZ	2.12	0.64
4:D:226:PRO:HB2	4:D:311:MET:HG2	1.79	0.64
4:D:521:ILE:HG21	7:G:52:LEU:H	1.61	0.64
6:F:241:GLU:HA	6:F:302:ASP:OD2	1.98	0.64
2:J:197:LYS:HB3	2:J:381:GLU:OE1	1.97	0.64
3:K:124:ALA:HB1	3:K:441:PRO:HB2	1.79	0.64
4:L:524:ILE:HG23	7:O:52:LEU:HD22	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:430:ASN:C	6:N:433:LYS:H	2.05	0.64
7:O:446:LEU:HD21	7:O:507:LEU:HD23	1.78	0.64
4:d:1038:SER:HB3	4:d:1046:LYS:NZ	2.12	0.64
7:g:1454:CYS:HB2	7:g:1461:ALA:CB	2.27	0.64
8:h:1006:PRO:CA	4:l:1071:LEU:CB	2.74	0.64
1:i:1183:ALA:HB1	1:i:1383:SER:CB	2.26	0.64
4:l:1134:ILE:HD11	4:l:1424:ARG:CG	2.28	0.64
8:p:1250:PHE:HE2	8:p:1299:ILE:HD12	1.62	0.64
3:C:15:THR:O	3:C:16:THR:C	2.39	0.64
4:D:239:PHE:H	4:D:288:ILE:HD12	1.62	0.64
5:E:350:GLU:C	5:E:352:GLU:N	2.55	0.64
6:F:430:ASN:C	6:F:433:LYS:H	2.05	0.64
7:G:90:GLN:CG	7:G:101:VAL:HG21	2.24	0.64
7:G:235:LYS:CB	7:G:352:PHE:O	2.46	0.64
3:K:269:TRP:CH2	6:N:248:ASN:N	2.60	0.64
4:L:217:GLN:NE2	4:L:316:ILE:HA	2.12	0.64
4:L:410:LEU:HD13	4:L:498:LEU:HD22	1.78	0.64
6:N:143:LEU:HD22	6:N:145:ASN:HB3	1.79	0.64
2:b:1003:VAL:C	2:b:1005:ILE:HG23	2.21	0.64
4:d:1154:ALA:HB2	4:d:1175:VAL:HG13	1.79	0.64
2:j:1008:ASP:HA	2:j:1010:VAL:HG23	1.80	0.64
2:j:1393:GLN:HB3	2:j:1492:LYS:HE3	1.79	0.64
7:o:1075:VAL:HG21	7:o:1084:VAL:HG21	1.78	0.64
7:o:1109:MET:HG2	7:o:1514:THR:CG2	2.28	0.64
7:o:1454:CYS:HB2	7:o:1461:ALA:CB	2.27	0.64
1:A:187:VAL:HG23	1:A:383:SER:HB3	1.79	0.64
2:B:8:ASP:HA	2:B:10:VAL:HG23	1.80	0.64
2:B:230:LYS:HA	2:B:337:LEU:O	1.98	0.64
5:E:39:LYS:HE2	6:N:109:ILE:O	1.96	0.64
6:F:419:TYR:CZ	6:F:513:LEU:HD21	2.32	0.64
7:G:83:LEU:HD23	7:G:86:ILE:HD11	1.78	0.64
1:I:50:ASP:CG	1:I:64:ASN:HB2	2.23	0.64
2:J:408:GLU:HG2	2:J:440:LEU:HB3	1.78	0.64
6:N:419:TYR:CZ	6:N:513:LEU:HD21	2.32	0.64
6:N:478:ASP:C	6:N:482:ASP:HB2	2.20	0.64
2:b:1393:GLN:HB3	2:b:1492:LYS:HE3	1.79	0.64
5:e:1368:ASP:O	5:e:1369:LEU:C	2.41	0.64
1:i:1158:ASN:ND2	1:i:1516:GLY:HA2	2.13	0.64
2:j:1003:VAL:O	2:j:1005:ILE:HG12	1.96	0.64
3:k:1266:GLU:CD	3:k:1266:GLU:H	2.05	0.64
1:A:184:LEU:HD21	1:A:198:TYR:CB	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:232:LEU:HD21	2:B:325:VAL:HG21	1.79	0.64
2:B:393:GLN:HB3	2:B:492:LYS:HE3	1.79	0.64
6:F:434:LEU:O	6:F:438:GLY:CA	2.45	0.64
7:G:42:PRO:O	7:G:48:GLY:CA	2.40	0.64
2:J:232:LEU:HD21	2:J:325:VAL:HG21	1.80	0.64
2:J:295:GLU:HB2	6:N:337:GLN:NE2	2.12	0.64
4:L:226:PRO:HB2	4:L:311:MET:HG2	1.80	0.64
4:L:239:PHE:H	4:L:288:ILE:HD12	1.62	0.64
6:N:414:GLY:O	6:N:415:ALA:HB3	1.97	0.64
7:O:239:PRO:HA	7:O:291:ASN:HD21	1.63	0.64
8:P:168:SER:HB3	8:P:175:GLU:HB3	1.80	0.64
1:a:1184:LEU:HD21	1:a:1198:TYR:CB	2.28	0.64
2:b:1091:GLY:HA2	9:b:1601:ADP:O2A	1.98	0.64
4:d:1239:PHE:H	4:d:1288:ILE:HD12	1.62	0.64
6:f:1023:VAL:HG11	6:f:1106:HIS:CB	2.28	0.64
7:o:1070:LEU:HB3	7:o:1084:VAL:HG13	1.78	0.64
1:A:218:LEU:HD22	1:A:219:VAL:H	1.63	0.64
2:B:5:ILE:HG13	2:B:6:PHE:N	2.09	0.64
2:B:409:MET:HB3	2:B:463:ILE:HD13	1.78	0.64
4:D:134:ILE:HD11	4:D:424:ARG:CG	2.28	0.64
4:D:214:VAL:HG22	4:D:362:ARG:HG2	1.80	0.64
4:D:410:LEU:HD13	4:D:498:LEU:HD22	1.78	0.64
5:E:166:ASP:H	5:E:167:ASP:HB2	1.60	0.64
7:G:239:PRO:HA	7:G:291:ASN:HD21	1.63	0.64
2:J:8:ASP:HA	2:J:10:VAL:HG23	1.79	0.64
3:K:122:ILE:HD13	3:K:522:ARG:HG2	1.79	0.64
5:M:368:ASP:O	5:M:369:LEU:C	2.41	0.64
6:N:174:VAL:HG13	6:N:399:LEU:HD13	1.78	0.64
2:b:1409:MET:HB3	2:b:1463:ILE:HD13	1.78	0.64
6:f:1430:ASN:C	6:f:1433:LYS:H	2.05	0.64
7:g:1343:PRO:HA	7:g:1346:LEU:HD21	1.78	0.64
6:n:1414:GLY:O	6:n:1415:ALA:HB3	1.98	0.64
6:n:1539:SER:HB2	6:n:1542:LYS:CD	2.27	0.64
7:o:1235:LYS:CB	7:o:1352:PHE:O	2.46	0.64
7:G:109:MET:HG2	7:G:514:THR:CG2	2.28	0.64
7:G:516:LEU:HD11	7:G:517:ILE:HG12	1.75	0.64
3:K:161:THR:H	3:K:165:ILE:HG13	1.62	0.64
4:L:134:ILE:HD11	4:L:424:ARG:CG	2.28	0.64
6:N:434:LEU:O	6:N:438:GLY:CA	2.45	0.64
7:O:343:PRO:HA	7:O:346:LEU:HD21	1.78	0.64
7:O:454:CYS:HB2	7:O:461:ALA:CB	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1050:ASP:CG	1:a:1064:ASN:HB2	2.23	0.64
2:b:1027:ILE:CD1	2:b:1104:ARG:HH11	2.09	0.64
8:h:1006:PRO:CB	4:l:1071:LEU:CA	2.75	0.64
1:i:1184:LEU:HD21	1:i:1198:TYR:CB	2.28	0.64
2:j:1230:LYS:H	2:j:1281:ILE:HG22	1.62	0.64
2:j:1375:GLN:NE2	6:n:1075:LEU:HD12	2.13	0.64
4:l:1214:VAL:HG22	4:l:1362:ARG:HG2	1.80	0.64
4:l:1521:ILE:HG23	7:o:1051:ILE:CA	2.28	0.64
2:B:197:LYS:HB3	2:B:381:GLU:OE1	1.97	0.64
3:C:93:THR:HG22	10:C:1102:BEF:F2	1.87	0.64
4:D:499:GLN:NE2	9:D:601:ADP:H2'	2.12	0.64
5:E:368:ASP:O	5:E:369:LEU:C	2.41	0.64
6:F:353:LEU:O	6:F:367:VAL:HG13	1.97	0.64
2:J:201:GLY:H	6:N:86:ILE:HD12	1.63	0.64
5:M:66:GLY:H	9:M:601:ADP:C5'	2.05	0.64
6:N:538:ARG:HH11	6:N:538:ARG:CG	2.11	0.64
7:O:86:ILE:HA	7:O:89:ALA:HB3	1.79	0.64
7:O:191:ARG:CD	7:O:192:ASN:N	2.61	0.64
3:c:1112:ILE:C	3:c:1114:LYS:H	2.06	0.64
7:g:1109:MET:HG2	7:g:1514:THR:CG2	2.28	0.64
2:j:1402:LEU:HD11	2:j:1483:ARG:HE	1.62	0.64
5:m:1166:ASP:H	5:m:1167:ASP:HB2	1.60	0.64
6:n:1159:LEU:O	6:n:1160:THR:CB	2.46	0.64
6:n:1538:ARG:HH11	6:n:1538:ARG:CG	2.11	0.64
7:o:1446:LEU:HD21	7:o:1507:LEU:HD23	1.78	0.64
8:p:1168:SER:HB3	8:p:1175:GLU:HB3	1.80	0.64
1:A:50:ASP:CG	1:A:64:ASN:HB2	2.23	0.64
2:B:4:GLN:HB2	3:C:71:ALA:HB3	1.80	0.64
4:D:154:ALA:HB2	4:D:175:VAL:HG13	1.79	0.64
3:K:266:GLU:CD	3:K:266:GLU:H	2.05	0.64
6:N:83:GLN:HG3	6:N:94:VAL:CG2	2.18	0.64
3:c:1512:THR:HG23	8:h:1389:ALA:HB1	1.79	0.64
4:d:1226:PRO:HB2	4:d:1311:MET:HG2	1.79	0.64
6:f:1538:ARG:HH11	6:f:1538:ARG:CG	2.11	0.64
6:f:1539:SER:HB2	6:f:1542:LYS:CD	2.27	0.64
8:h:1250:PHE:HE2	8:h:1299:ILE:HD12	1.61	0.64
3:k:1320:VAL:O	3:k:1321:LYS:C	2.41	0.64
5:m:1544:LEU:HD23	6:n:1384:THR:CG2	2.28	0.64
6:n:1133:LEU:HD12	6:n:1422:LEU:CD2	2.24	0.64
6:n:1241:GLU:HA	6:n:1302:ASP:OD2	1.98	0.64
1:A:66:GLY:N	1:A:99:THR:HG22	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:223:VAL:HG12	3:C:224:LEU:H	1.63	0.64
5:E:33:LYS:HE2	6:N:117:ILE:HG12	1.79	0.64
5:E:128:ALA:HB2	5:E:478:THR:HG21	1.80	0.64
6:F:23:VAL:HG11	6:F:106:HIS:CB	2.28	0.64
6:F:331:VAL:O	6:F:332:THR:OG1	2.12	0.64
1:I:66:GLY:N	1:I:99:THR:HG22	2.12	0.64
2:J:278:LYS:HA	2:J:333:SER:HB3	1.79	0.64
2:J:411:MET:O	2:J:415:VAL:HG23	1.98	0.64
5:M:401:THR:O	5:M:402:LYS:CB	2.46	0.64
6:N:352:GLY:O	6:N:367:VAL:HG11	1.91	0.64
7:O:317:ARG:O	7:O:317:ARG:CG	2.46	0.64
2:b:1411:MET:O	2:b:1415:VAL:HG23	1.98	0.64
4:d:1071:LEU:CA	8:p:1006:PRO:CG	2.76	0.64
7:g:1304:THR:HA	7:g:1307:PHE:HE2	1.63	0.64
3:k:1035:ILE:HD11	3:k:1065:LEU:HG	1.80	0.64
3:k:1255:GLY:H	3:k:1259:THR:HG21	1.62	0.64
5:m:1128:ALA:HB2	5:m:1478:THR:HG21	1.80	0.64
5:m:1483:LEU:HD11	9:m:1601:ADP:HI'	1.80	0.64
6:n:1489:VAL:O	6:n:1490:GLY:C	2.41	0.64
3:C:112:ILE:C	3:C:114:LYS:H	2.06	0.63
3:C:124:ALA:HB1	3:C:441:PRO:HB2	1.79	0.63
1:I:540:ARG:O	5:M:70:LEU:HB3	1.98	0.63
5:M:166:ASP:H	5:M:167:ASP:HB2	1.60	0.63
8:P:430:LEU:HD13	8:P:434:ILE:HD11	1.79	0.63
3:c:1223:VAL:HG12	3:c:1224:LEU:H	1.63	0.63
3:k:1223:VAL:HG12	3:k:1224:LEU:H	1.63	0.63
4:l:1297:VAL:HB	4:l:1298:ASN:HA	1.78	0.63
6:n:1353:LEU:O	6:n:1367:VAL:HG13	1.97	0.63
7:o:1191:ARG:CZ	7:o:1192:ASN:N	2.61	0.63
7:o:1418:MET:HE3	7:o:1447:GLU:HG2	1.80	0.63
3:C:391:GLU:O	3:C:395:ASN:HB2	1.99	0.63
4:D:210:ILE:O	4:D:375:VAL:HG13	1.98	0.63
6:F:465:ASP:CA	6:F:466:PRO:C	2.68	0.63
6:F:538:ARG:HH11	6:F:538:ARG:CG	2.11	0.63
1:I:218:LEU:HD22	1:I:219:VAL:H	1.63	0.63
2:J:251:LYS:N	6:N:251:PHE:HA	2.10	0.63
5:M:350:GLU:C	5:M:352:GLU:N	2.55	0.63
6:N:489:VAL:O	6:N:490:GLY:C	2.41	0.63
1:a:1066:GLY:N	1:a:1099:THR:HG22	2.12	0.63
5:e:1039:LYS:HE2	6:n:1109:ILE:O	1.97	0.63
5:e:1128:ALA:HB2	5:e:1478:THR:HG21	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:1350:GLU:C	5:e:1352:GLU:N	2.55	0.63
6:f:1159:LEU:O	6:f:1160:THR:CB	2.46	0.63
6:f:1241:GLU:HA	6:f:1302:ASP:OD2	1.98	0.63
8:h:1430:LEU:HD13	8:h:1434:ILE:HD11	1.79	0.63
1:i:1050:ASP:CG	1:i:1064:ASN:HB2	2.23	0.63
3:k:1161:THR:H	3:k:1165:ILE:HG13	1.62	0.63
7:o:1239:PRO:HA	7:o:1291:ASN:HD21	1.63	0.63
2:B:411:MET:O	2:B:415:VAL:HG23	1.98	0.63
7:G:317:ARG:O	7:G:317:ARG:CG	2.46	0.63
3:K:335:THR:HB	8:P:237:LYS:HE2	1.80	0.63
2:b:1230:LYS:H	2:b:1281:ILE:HG22	1.63	0.63
2:b:1236:THR:OG1	2:b:1327:SER:HA	1.99	0.63
3:c:1250:LEU:HG	3:c:1301:VAL:CB	2.29	0.63
5:e:1104:LEU:CD2	5:e:1123:VAL:HG13	2.27	0.63
6:f:1414:GLY:O	6:f:1415:ALA:HB3	1.97	0.63
7:g:1235:LYS:CB	7:g:1352:PHE:O	2.46	0.63
7:g:1516:LEU:HD11	7:g:1517:ILE:HG12	1.75	0.63
2:j:1210:GLU:OE1	2:j:1357:SER:O	2.17	0.63
5:m:1104:LEU:CD2	5:m:1123:VAL:HG13	2.27	0.63
5:m:1558:GLY:HA2	6:n:1048:ASP:HB2	1.80	0.63
4:D:252:ILE:O	8:H:263:GLY:HA2	1.99	0.63
6:N:159:LEU:O	6:N:160:THR:CB	2.46	0.63
6:N:241:GLU:HA	6:N:302:ASP:OD2	1.98	0.63
7:O:235:LYS:CB	7:O:352:PHE:O	2.46	0.63
2:b:1210:GLU:OE1	2:b:1357:SER:O	2.17	0.63
3:c:1142:PRO:HB3	3:c:1410:PRO:HB2	1.81	0.63
6:n:1330:LEU:CB	6:n:1375:SER:OG	2.47	0.63
6:n:1433:LYS:HB3	6:n:1441:LYS:HA	1.80	0.63
8:p:1024:ALA:O	8:p:1028:ILE:HG13	1.99	0.63
2:B:408:GLU:HG2	2:B:440:LEU:HB3	1.78	0.63
3:C:35:ILE:HD11	3:C:65:LEU:HG	1.80	0.63
6:F:83:GLN:HG3	6:F:94:VAL:CG2	2.18	0.63
6:F:106:HIS:O	6:F:109:ILE:HG12	1.97	0.63
7:G:418:MET:HE3	7:G:447:GLU:HG2	1.80	0.63
8:H:300:VAL:HG11	8:H:332:LEU:HD21	1.79	0.63
8:H:430:LEU:HD13	8:H:434:ILE:HD11	1.79	0.63
1:I:158:ASN:ND2	1:I:516:GLY:HA2	2.13	0.63
6:N:433:LYS:HB3	6:N:441:LYS:HA	1.80	0.63
6:N:539:SER:HB2	6:N:542:LYS:CD	2.27	0.63
7:O:282:LEU:HD21	7:O:306:PHE:HB2	1.80	0.63
1:a:1115:LEU:HD13	1:a:1125:ILE:HD11	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1008:ASP:HA	2:b:1010:VAL:HG23	1.80	0.63
2:b:1230:LYS:HA	2:b:1337:LEU:O	1.97	0.63
2:b:1492:LYS:H	2:b:1492:LYS:HZ3	1.44	0.63
3:c:1161:THR:H	3:c:1165:ILE:HG13	1.62	0.63
2:j:1230:LYS:HA	2:j:1337:LEU:O	1.98	0.63
2:j:1492:LYS:NZ	2:j:1492:LYS:H	1.97	0.63
3:k:1391:GLU:O	3:k:1395:ASN:HB2	1.99	0.63
4:l:1239:PHE:H	4:l:1288:ILE:HD12	1.62	0.63
6:n:1465:ASP:CA	6:n:1466:PRO:C	2.68	0.63
2:B:236:THR:OG1	2:B:327:SER:HA	1.99	0.63
5:E:283:THR:HG22	5:E:284:LYS:H	1.64	0.63
6:F:143:LEU:HD22	6:F:145:ASN:HB3	1.79	0.63
6:F:330:LEU:CB	6:F:375:SER:OG	2.47	0.63
1:I:115:LEU:HD13	1:I:125:ILE:HD11	1.81	0.63
3:K:112:ILE:C	3:K:114:LYS:H	2.06	0.63
6:N:331:VAL:O	6:N:332:THR:OG1	2.12	0.63
8:P:204:VAL:HG13	8:P:405:VAL:CG1	2.25	0.63
2:b:1278:LYS:HA	2:b:1333:SER:HB3	1.79	0.63
2:b:1422:ILE:HG21	2:b:1427:SER:HB3	1.79	0.63
3:c:1320:VAL:O	3:c:1321:LYS:C	2.41	0.63
3:c:1391:GLU:O	3:c:1395:ASN:HB2	1.99	0.63
4:d:1217:GLN:NE2	4:d:1316:ILE:HA	2.12	0.63
6:f:1106:HIS:O	6:f:1109:ILE:HG12	1.97	0.63
6:f:1465:ASP:CA	6:f:1466:PRO:C	2.68	0.63
7:g:1191:ARG:CZ	7:g:1192:ASN:N	2.61	0.63
7:g:1317:ARG:O	7:g:1317:ARG:CG	2.46	0.63
2:j:1072:PRO:CG	3:k:1047:MET:HE1	2.28	0.63
4:l:1210:ILE:O	4:l:1375:VAL:HG13	1.98	0.63
6:F:159:LEU:O	6:F:160:THR:CB	2.46	0.63
7:G:191:ARG:CZ	7:G:192:ASN:N	2.61	0.63
1:I:55:ASP:HA	7:O:527:LYS:HB3	1.80	0.63
2:J:210:GLU:OE1	2:J:357:SER:O	2.17	0.63
2:J:492:LYS:H	2:J:492:LYS:NZ	1.97	0.63
5:M:283:THR:HG22	5:M:284:LYS:H	1.64	0.63
6:N:106:HIS:O	6:N:109:ILE:HG12	1.97	0.63
6:N:330:LEU:CB	6:N:375:SER:OG	2.47	0.63
7:O:109:MET:SD	7:O:514:THR:HG22	2.39	0.63
7:O:109:MET:HG2	7:O:514:THR:CG2	2.28	0.63
7:O:189:LEU:N	7:O:190:ASP:HB2	2.14	0.63
1:a:1158:ASN:ND2	1:a:1516:GLY:HA2	2.13	0.63
2:b:1232:LEU:HD21	2:b:1325:VAL:HG21	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:1124:ALA:HB1	3:c:1441:PRO:HB2	1.79	0.63
6:f:1439:LYS:HD3	6:f:1440:THR:H	1.63	0.63
6:f:1478:ASP:C	6:f:1482:ASP:HB2	2.21	0.63
7:g:1239:PRO:HA	7:g:1291:ASN:HD21	1.63	0.63
8:h:1168:SER:HB3	8:h:1175:GLU:HB3	1.80	0.63
8:h:1375:GLN:N	8:h:1376:GLY:HA3	2.14	0.63
1:i:1115:LEU:HD13	1:i:1125:ILE:HD11	1.81	0.63
2:j:1038:GLY:HA3	2:j:1474:LEU:CD1	2.29	0.63
2:j:1408:GLU:HG2	2:j:1440:LEU:HB3	1.78	0.63
5:m:1368:ASP:O	5:m:1369:LEU:C	2.41	0.63
6:n:1108:PHE:CE2	6:n:1118:ILE:HG13	2.34	0.63
1:A:458:ILE:HB	1:A:459:PRO:HD3	1.81	0.63
2:B:3:VAL:O	2:B:5:ILE:HG12	1.96	0.63
2:B:230:LYS:H	2:B:281:ILE:HG22	1.62	0.63
7:G:191:ARG:CD	7:G:192:ASN:N	2.61	0.63
7:G:498:GLU:HG2	9:G:601:ADP:O2'	1.99	0.63
8:H:168:SER:HB3	8:H:175:GLU:HB3	1.80	0.63
2:J:34:LYS:O	2:J:36:THR:N	2.27	0.63
5:M:104:LEU:CD2	5:M:123:VAL:HG13	2.27	0.63
6:N:23:VAL:HG11	6:N:106:HIS:CB	2.28	0.63
7:O:304:THR:HA	7:O:307:PHE:HE2	1.63	0.63
1:a:1458:ILE:HB	1:a:1459:PRO:HD3	1.81	0.63
6:f:1108:PHE:CE2	6:f:1118:ILE:HG13	2.34	0.63
6:n:1023:VAL:HG11	6:n:1106:HIS:CB	2.28	0.63
6:n:1481:GLN:O	6:n:1489:VAL:HG21	1.99	0.63
8:p:1375:GLN:N	8:p:1376:GLY:HA3	2.14	0.63
6:F:414:GLY:O	6:F:415:ALA:HB3	1.98	0.63
1:I:228:VAL:CG2	1:I:363:GLN:NE2	2.49	0.63
2:J:98:LEU:O	2:J:102:LEU:HB2	1.99	0.63
2:J:422:ILE:HG21	2:J:427:SER:HB3	1.79	0.63
4:L:528:ARG:H	4:L:528:ARG:NE	1.97	0.63
5:M:128:ALA:HB2	5:M:478:THR:HG21	1.80	0.63
5:M:383:GLN:O	5:M:391:ARG:CB	2.47	0.63
6:N:108:PHE:CE2	6:N:118:ILE:HG13	2.34	0.63
2:b:1045:LEU:HB2	6:f:1533:LEU:CB	2.29	0.63
2:b:1408:GLU:HG2	2:b:1440:LEU:HB3	1.78	0.63
3:c:1035:ILE:HD11	3:c:1065:LEU:HG	1.80	0.63
4:d:1071:LEU:HA	8:p:1006:PRO:HG2	1.79	0.63
5:e:1174:GLU:O	5:e:1175:LEU:CG	2.47	0.63
5:e:1383:GLN:O	5:e:1391:ARG:CB	2.47	0.63
7:g:1043:THR:HG22	7:g:1064:ASN:CB	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:1218:LEU:HD22	1:i:1219:VAL:H	1.63	0.63
2:j:1008:ASP:CB	2:j:1009:GLN:HA	2.22	0.63
2:j:1098:LEU:O	2:j:1102:LEU:HB2	1.99	0.63
2:j:1236:THR:OG1	2:j:1327:SER:HA	1.99	0.63
4:l:1292:ILE:HG13	4:l:1293:LEU:HA	1.81	0.63
5:m:1283:THR:HG22	5:m:1284:LYS:H	1.64	0.63
5:m:1383:GLN:O	5:m:1391:ARG:CB	2.47	0.63
5:m:1401:THR:O	5:m:1402:LYS:CB	2.46	0.63
7:o:1317:ARG:O	7:o:1317:ARG:CG	2.46	0.63
8:p:1131:TYR:CD2	8:p:1452:PHE:HD2	2.17	0.63
1:A:115:LEU:HD13	1:A:125:ILE:HD11	1.81	0.62
2:B:210:GLU:OE1	2:B:357:SER:O	2.17	0.62
4:D:528:ARG:H	4:D:528:ARG:NE	1.97	0.62
6:F:433:LYS:C	6:F:441:LYS:CB	2.72	0.62
7:G:304:THR:HA	7:G:307:PHE:HE2	1.63	0.62
4:L:292:ILE:HG13	4:L:293:LEU:HA	1.81	0.62
6:N:433:LYS:C	6:N:441:LYS:CB	2.72	0.62
1:a:1224:LEU:HD13	1:a:1226:CYS:HB2	1.80	0.62
4:d:1528:ARG:H	4:d:1528:ARG:NE	1.97	0.62
6:f:1481:GLN:O	6:f:1489:VAL:HG21	1.99	0.62
7:g:1409:ILE:HG22	7:g:1410:VAL:N	2.14	0.62
2:j:1232:LEU:HD21	2:j:1325:VAL:HG21	1.79	0.62
2:j:1411:MET:O	2:j:1415:VAL:HG23	1.98	0.62
3:k:1112:ILE:C	3:k:1114:LYS:H	2.06	0.62
3:k:1142:PRO:HB3	3:k:1410:PRO:HB2	1.81	0.62
7:o:1079:ALA:O	7:o:1082:THR:HG22	1.99	0.62
7:o:1189:LEU:N	7:o:1190:ASP:HB2	2.14	0.62
1:A:158:ASN:ND2	1:A:516:GLY:HA2	2.13	0.62
2:B:38:GLY:HA3	2:B:474:LEU:CD1	2.29	0.62
5:E:273:THR:HG22	5:E:363:VAL:O	1.99	0.62
6:F:109:ILE:HG13	5:M:39:LYS:NZ	2.11	0.62
7:G:409:ILE:HG22	7:G:410:VAL:N	2.14	0.62
8:H:227:VAL:HG21	8:H:385:ILE:HD11	1.81	0.62
2:J:230:LYS:H	2:J:281:ILE:HG22	1.62	0.62
2:J:436:ALA:O	2:J:439:GLN:HB3	1.99	0.62
3:K:35:ILE:HD11	3:K:65:LEU:HG	1.80	0.62
7:O:79:ALA:O	7:O:82:THR:HG22	1.99	0.62
7:O:214:PHE:HD1	7:O:376:LEU:HB3	1.64	0.62
8:P:227:VAL:HG21	8:P:385:ILE:HD11	1.81	0.62
2:b:1436:ALA:O	2:b:1439:GLN:HB3	2.00	0.62
4:d:1210:ILE:O	4:d:1375:VAL:HG13	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g:1109:MET:SD	7:g:1514:THR:HG22	2.39	0.62
1:i:1224:LEU:HD13	1:i:1226:CYS:HB2	1.80	0.62
7:o:1109:MET:SD	7:o:1514:THR:HG22	2.39	0.62
8:p:1430:LEU:HD13	8:p:1434:ILE:HD11	1.79	0.62
6:F:143:LEU:HA	6:F:144:SER:C	2.24	0.62
6:F:481:GLN:O	6:F:489:VAL:HG21	1.99	0.62
2:b:1038:GLY:HA3	2:b:1474:LEU:CD1	2.29	0.62
2:b:1492:LYS:H	2:b:1492:LYS:NZ	1.97	0.62
4:d:1292:ILE:HG13	4:d:1293:LEU:HA	1.81	0.62
5:e:1273:THR:HG22	5:e:1363:VAL:O	1.99	0.62
5:e:1283:THR:HG22	5:e:1284:LYS:H	1.64	0.62
6:f:1330:LEU:CB	6:f:1375:SER:OG	2.47	0.62
6:f:1433:LYS:HB3	6:f:1441:LYS:HA	1.80	0.62
7:g:1189:LEU:N	7:g:1190:ASP:HB2	2.14	0.62
8:h:1024:ALA:O	8:h:1028:ILE:HG13	1.98	0.62
1:i:1090:GLN:OE1	1:i:1096:ASP:O	2.17	0.62
2:j:1492:LYS:HE2	2:j:1493:LEU:N	2.12	0.62
8:p:1441:THR:O	8:p:1446:GLN:HG2	2.00	0.62
3:C:320:VAL:O	3:C:321:LYS:C	2.41	0.62
4:D:292:ILE:HG13	4:D:293:LEU:HA	1.82	0.62
5:E:174:GLU:O	5:E:175:LEU:CG	2.47	0.62
7:G:109:MET:SD	7:G:514:THR:HG22	2.39	0.62
2:J:38:GLY:HA3	2:J:474:LEU:CD1	2.29	0.62
3:K:223:VAL:HG12	3:K:224:LEU:H	1.63	0.62
4:L:375:VAL:HG12	4:L:376:SER:H	1.64	0.62
1:a:1090:GLN:OE1	1:a:1096:ASP:O	2.17	0.62
2:b:1098:LEU:O	2:b:1102:LEU:HB2	1.99	0.62
2:b:1464:TYR:O	2:b:1467:ILE:HD11	2.00	0.62
4:d:1214:VAL:HG22	4:d:1362:ARG:HG2	1.80	0.62
4:d:1250:ASN:HA	7:g:1259:VAL:CG1	2.26	0.62
6:f:1430:ASN:C	6:f:1433:LYS:HB2	2.24	0.62
7:g:1079:ALA:O	7:g:1082:THR:HG22	1.99	0.62
3:k:1122:ILE:HD13	3:k:1522:ARG:HG2	1.79	0.62
5:m:1348:GLY:O	5:m:1351:LEU:HD11	2.00	0.62
6:n:1007:ASN:OD1	6:n:1008:PRO:HD2	1.99	0.62
6:n:1430:ASN:C	6:n:1433:LYS:HB2	2.24	0.62
6:n:1434:LEU:O	6:n:1438:GLY:CA	2.45	0.62
1:A:184:LEU:CD2	1:A:198:TYR:CG	2.69	0.62
2:B:98:LEU:O	2:B:102:LEU:HB2	1.99	0.62
5:E:401:THR:O	5:E:402:LYS:CB	2.46	0.62
8:H:375:GLN:N	8:H:376:GLY:HA3	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:391:GLU:O	3:K:395:ASN:HB2	1.98	0.62
4:L:210:ILE:O	4:L:375:VAL:HG13	1.98	0.62
6:N:173:ILE:HD11	6:N:209:PHE:HB3	1.82	0.62
7:O:409:ILE:HG22	7:O:410:VAL:N	2.14	0.62
8:P:24:ALA:O	8:P:28:ILE:HG13	1.99	0.62
8:P:227:VAL:HG22	8:P:370:VAL:HG12	1.81	0.62
2:b:1034:LYS:O	2:b:1036:THR:N	2.27	0.62
4:d:1375:VAL:HG12	4:d:1376:SER:H	1.64	0.62
8:h:1109:GLU:O	8:h:1113:VAL:HG23	2.00	0.62
8:h:1441:THR:O	8:h:1446:GLN:HG2	2.00	0.62
5:m:1133:ALA:O	5:m:1137:ILE:HG13	1.99	0.62
7:o:1037:GLN:HE21	7:o:1038:GLU:N	1.98	0.62
7:o:1282:LEU:HD21	7:o:1306:PHE:HB2	1.80	0.62
3:C:142:PRO:HB3	3:C:410:PRO:HB2	1.81	0.62
8:H:227:VAL:HG22	8:H:370:VAL:HG12	1.81	0.62
8:H:441:THR:O	8:H:446:GLN:HG2	2.00	0.62
1:I:224:LEU:HD13	1:I:226:CYS:HB2	1.81	0.62
2:J:236:THR:OG1	2:J:327:SER:HA	1.99	0.62
3:K:320:VAL:O	3:K:321:LYS:C	2.41	0.62
5:M:483:LEU:HD11	9:M:601:ADP:O4'	1.99	0.62
6:N:430:ASN:C	6:N:433:LYS:HB2	2.24	0.62
3:c:1042:LYS:CB	3:c:1460:ALA:CA	2.75	0.62
3:c:1223:VAL:HG11	3:c:1328:ILE:CG1	2.29	0.62
6:f:1489:VAL:O	6:f:1490:GLY:C	2.41	0.62
7:g:1191:ARG:CD	7:g:1192:ASN:N	2.61	0.62
2:j:1436:ALA:O	2:j:1439:GLN:HB3	2.00	0.62
3:k:1031:VAL:HG11	3:k:1070:VAL:HG11	1.81	0.62
3:k:1250:LEU:CG	3:k:1301:VAL:HG23	2.13	0.62
8:p:1227:VAL:HG22	8:p:1370:VAL:HG12	1.81	0.62
1:A:224:LEU:HD13	1:A:226:CYS:HB2	1.81	0.62
1:A:470:SER:H	3:K:115:ASN:CB	2.13	0.62
2:B:464:TYR:O	2:B:467:ILE:HD11	2.00	0.62
6:F:501:PRO:CB	6:F:506:ILE:HB	2.17	0.62
6:F:540:THR:O	6:F:542:LYS:CG	2.44	0.62
7:G:214:PHE:HD1	7:G:376:LEU:HB3	1.64	0.62
7:G:282:LEU:HD21	7:G:306:PHE:HB2	1.80	0.62
1:I:184:LEU:CD2	1:I:198:TYR:CG	2.69	0.62
1:I:480:TYR:O	1:I:483:ALA:HB3	2.00	0.62
2:J:375:GLN:NE2	6:N:75:LEU:HD12	2.14	0.62
3:K:495:VAL:HG23	3:K:500:TRP:HH2	1.65	0.62
6:N:481:GLN:O	6:N:489:VAL:HG21	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1005:ILE:O	3:c:1071:ALA:N	2.32	0.62
5:e:1401:THR:O	5:e:1402:LYS:CB	2.46	0.62
5:e:1433:LEU:HD11	5:e:1439:VAL:HG13	1.82	0.62
6:f:1007:ASN:OD1	6:f:1008:PRO:HD2	1.99	0.62
7:g:1413:GLY:HA2	9:g:1601:ADP:H2	1.64	0.62
7:g:1418:MET:HE3	7:g:1447:GLU:HG2	1.80	0.62
2:B:436:ALA:O	2:B:439:GLN:HB3	2.00	0.62
4:D:375:VAL:HG12	4:D:376:SER:H	1.64	0.62
5:E:133:ALA:O	5:E:137:ILE:HG13	1.99	0.62
5:E:210:ASN:H	5:E:210:ASN:HD22	1.48	0.62
6:F:155:ARG:CB	6:F:171:THR:HG21	2.30	0.62
6:F:353:LEU:HB2	6:F:368:THR:OG1	2.00	0.62
7:G:189:LEU:N	7:G:190:ASP:HB2	2.14	0.62
7:G:413:GLY:HA3	7:G:491:ASN:ND2	2.15	0.62
1:I:458:ILE:HB	1:I:459:PRO:HD3	1.81	0.62
3:K:31:VAL:HG11	3:K:70:VAL:HG11	1.81	0.62
3:K:223:VAL:HG11	3:K:328:ILE:CG1	2.29	0.62
6:N:92:THR:CG2	10:N:602:BEF:F3	2.37	0.62
8:P:213:MET:HE2	8:P:391:GLN:HG3	1.82	0.62
2:b:1003:VAL:O	2:b:1005:ILE:HG12	1.96	0.62
2:b:1509:LEU:HD23	2:b:1509:LEU:O	2.00	0.62
3:c:1462:GLY:O	3:c:1464:PRO:HD3	1.99	0.62
4:d:1521:ILE:HG23	7:g:1051:ILE:HA	1.82	0.62
6:f:1143:LEU:HD22	6:f:1145:ASN:HB3	1.79	0.62
8:h:1335:VAL:HG22	8:h:1379:SER:HB2	1.82	0.62
1:i:1458:ILE:HB	1:i:1459:PRO:HD3	1.81	0.62
3:k:1050:ASP:HB2	3:k:1051:PRO:HD2	1.82	0.62
6:n:1353:LEU:HB2	6:n:1368:THR:OG1	2.00	0.62
1:A:122:PRO:HG3	5:E:70:LEU:HD11	1.82	0.62
2:B:492:LYS:H	2:B:492:LYS:NZ	1.97	0.62
3:C:62:HIS:O	3:C:66:ARG:HG3	2.00	0.62
3:C:223:VAL:HG11	3:C:328:ILE:CG1	2.29	0.62
4:D:328:LEU:C	4:D:345:ASP:OD2	2.43	0.62
5:E:383:GLN:O	5:E:391:ARG:CB	2.47	0.62
6:F:430:ASN:C	6:F:433:LYS:HB2	2.24	0.62
8:H:131:TYR:CD2	8:H:452:PHE:HD2	2.17	0.62
2:J:8:ASP:CB	2:J:9:GLN:HA	2.22	0.62
5:M:273:THR:HG22	5:M:363:VAL:O	1.99	0.62
5:M:509:ASN:CG	5:M:523:LYS:HB2	2.24	0.62
7:O:43:THR:HG22	7:O:64:ASN:CB	2.27	0.62
5:e:1183:ALA:O	5:e:1187:SER:HB2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1433:LYS:C	6:f:1441:LYS:CB	2.72	0.62
1:i:1266:ASP:N	1:i:1267:PRO:HD2	2.15	0.62
2:j:1040:LYS:HZ2	6:n:1117:ILE:HG13	1.63	0.62
2:j:1422:ILE:HG21	2:j:1427:SER:HB3	1.79	0.62
4:l:1375:VAL:HG12	4:l:1376:SER:H	1.64	0.62
5:m:1210:ASN:H	5:m:1210:ASN:HD22	1.48	0.62
7:o:1304:THR:HA	7:o:1307:PHE:HE2	1.63	0.62
7:o:1409:ILE:HG22	7:o:1410:VAL:N	2.14	0.62
8:p:1109:GLU:O	8:p:1113:VAL:HG23	2.00	0.62
8:p:1213:MET:HE2	8:p:1391:GLN:HG3	1.82	0.62
3:C:462:GLY:O	3:C:464:PRO:HD3	1.99	0.62
5:E:348:GLY:O	5:E:351:LEU:HD11	2.00	0.62
5:E:373:LYS:HE2	6:F:311:LYS:HZ3	1.65	0.62
1:I:233:MET:HG2	1:I:311:VAL:HG22	1.82	0.62
3:K:142:PRO:HB3	3:K:410:PRO:HB2	1.81	0.62
5:M:50:HIS:HB3	5:M:100:ILE:HG21	1.82	0.62
1:a:1480:TYR:O	1:a:1483:ALA:HB3	2.00	0.62
2:b:1459:LEU:HD22	2:b:1472:LEU:CG	2.26	0.62
4:d:1521:ILE:HG23	7:g:1050:ASP:O	2.00	0.62
7:g:1214:PHE:HD1	7:g:1376:LEU:HB3	1.64	0.62
8:h:1131:TYR:CD2	8:h:1452:PHE:HD2	2.17	0.62
8:h:1213:MET:HE2	8:h:1391:GLN:HG3	1.82	0.62
5:m:1273:THR:HG22	5:m:1363:VAL:O	1.99	0.62
5:m:1433:LEU:HD11	5:m:1439:VAL:HG13	1.82	0.62
6:n:1433:LYS:C	6:n:1441:LYS:CB	2.72	0.62
3:C:495:VAL:HG23	3:C:500:TRP:HH2	1.65	0.61
4:D:521:ILE:HG23	7:G:51:ILE:CA	2.29	0.61
5:E:39:LYS:NZ	6:N:109:ILE:HG13	2.14	0.61
7:G:307:PHE:HD1	7:G:312:ILE:HG23	1.64	0.61
8:H:24:ALA:O	8:H:28:ILE:HG13	1.99	0.61
8:H:335:VAL:HG22	8:H:379:SER:HB2	1.82	0.61
1:I:266:ASP:N	1:I:267:PRO:HD2	2.15	0.61
5:M:133:ALA:O	5:M:137:ILE:HG13	1.99	0.61
7:O:418:MET:HE3	7:O:447:GLU:HG2	1.80	0.61
8:P:109:GLU:O	8:P:113:VAL:HG23	2.00	0.61
1:a:1055:ASP:HA	7:g:1527:LYS:HB3	1.82	0.61
5:e:1133:ALA:O	5:e:1137:ILE:HG13	1.99	0.61
5:e:1210:ASN:H	5:e:1210:ASN:HD22	1.48	0.61
5:e:1509:ASN:CG	5:e:1523:LYS:HB2	2.24	0.61
2:j:1509:LEU:HD23	2:j:1509:LEU:O	2.00	0.61
4:l:1528:ARG:H	4:l:1528:ARG:NE	1.97	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:m:1509:ASN:CG	5:m:1523:LYS:HB2	2.24	0.61
6:n:1036:ASN:HB3	6:n:1057:LYS:HZ3	0.80	0.61
1:A:118:ASN:O	1:A:119:LYS:HG2	2.00	0.61
3:C:50:ASP:HB2	3:C:51:PRO:HD2	1.82	0.61
5:E:104:LEU:CD2	5:E:123:VAL:HG13	2.27	0.61
5:E:183:ALA:O	5:E:187:SER:HB2	2.00	0.61
6:F:489:VAL:O	6:F:490:GLY:C	2.41	0.61
6:F:515:ASN:HD22	6:F:516:ALA:N	1.99	0.61
8:H:213:MET:HE2	8:H:391:GLN:HG3	1.82	0.61
1:I:187:VAL:HG21	1:I:383:SER:HB3	1.83	0.61
5:M:348:GLY:O	5:M:351:LEU:HD11	2.00	0.61
6:N:229:LYS:HA	6:N:353:LEU:HD23	1.82	0.61
8:P:441:THR:O	8:P:446:GLN:HG2	1.99	0.61
3:c:1041:PRO:HA	3:c:1161:THR:HG21	1.82	0.61
7:g:1282:LEU:HD21	7:g:1306:PHE:HB2	1.80	0.61
2:j:1003:VAL:C	2:j:1005:ILE:HG21	2.24	0.61
2:j:1437:LEU:O	2:j:1441:PRO:HD2	2.01	0.61
3:k:1042:LYS:CB	3:k:1460:ALA:CA	2.75	0.61
3:k:1495:VAL:HG23	3:k:1500:TRP:HH2	1.65	0.61
5:m:1050:HIS:HB3	5:m:1100:ILE:HG21	1.82	0.61
5:m:1183:ALA:O	5:m:1187:SER:HB2	2.00	0.61
7:o:1174:ASN:N	7:o:1174:ASN:OD1	2.34	0.61
1:A:228:VAL:CG2	1:A:363:GLN:NE2	2.49	0.61
6:F:133:LEU:HD12	6:F:422:LEU:CD2	2.24	0.61
7:G:79:ALA:O	7:G:82:THR:HG22	1.99	0.61
7:G:165:ALA:HB2	7:G:399:ILE:HG21	1.82	0.61
1:I:90:GLN:OE1	1:I:96:ASP:O	2.17	0.61
1:I:118:ASN:O	1:I:119:LYS:HG2	2.00	0.61
2:J:509:LEU:O	2:J:509:LEU:HD23	2.00	0.61
3:K:50:ASP:HB2	3:K:51:PRO:HD2	1.82	0.61
5:M:174:GLU:O	5:M:175:LEU:CG	2.47	0.61
6:N:169:VAL:C	6:N:172:PRO:HD2	2.26	0.61
6:N:353:LEU:HB2	6:N:368:THR:OG1	2.00	0.61
7:O:239:PRO:HD2	7:O:349:CYS:O	2.01	0.61
7:O:413:GLY:HA3	7:O:491:ASN:ND2	2.15	0.61
1:a:1218:LEU:HD22	1:a:1219:VAL:H	1.63	0.61
2:b:1083:VAL:HG21	3:c:1384:GLY:O	1.99	0.61
6:f:1203:SER:C	6:f:1205:LYS:N	2.58	0.61
3:k:1250:LEU:CG	3:k:1301:VAL:HG21	2.24	0.61
7:o:1214:PHE:HD1	7:o:1376:LEU:HB3	1.64	0.61
1:A:233:MET:HG2	1:A:311:VAL:HG22	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:31:VAL:HG11	3:C:70:VAL:HG11	1.81	0.61
5:E:433:LEU:HD11	5:E:439:VAL:HG13	1.82	0.61
6:F:108:PHE:CE2	6:F:118:ILE:HG13	2.34	0.61
7:G:37:GLN:HE21	7:G:38:GLU:N	1.98	0.61
3:K:512:THR:HG23	8:P:389:ALA:HB1	1.82	0.61
6:N:5:LEU:CA	6:N:6:LEU:CB	2.66	0.61
7:O:191:ARG:CZ	7:O:192:ASN:N	2.61	0.61
8:P:375:GLN:N	8:P:376:GLY:HA3	2.14	0.61
2:b:1437:LEU:O	2:b:1441:PRO:HD2	2.00	0.61
3:c:1495:VAL:HG23	3:c:1500:TRP:HH2	1.65	0.61
7:g:1165:ALA:HB2	7:g:1399:ILE:HG21	1.82	0.61
7:g:1413:GLY:HA3	7:g:1491:ASN:ND2	2.15	0.61
8:h:1227:VAL:HG21	8:h:1385:ILE:HD11	1.81	0.61
2:j:1201:GLY:H	6:n:1086:ILE:HD12	1.63	0.61
2:j:1250:PHE:HA	6:n:1250:GLY:O	2.00	0.61
2:j:1357:SER:CB	2:j:1360:LYS:CB	2.69	0.61
3:k:1462:GLY:O	3:k:1464:PRO:HD3	1.99	0.61
7:o:1239:PRO:HD2	7:o:1349:CYS:O	2.01	0.61
7:o:1307:PHE:HD1	7:o:1312:ILE:HG23	1.64	0.61
2:B:437:LEU:O	2:B:441:PRO:HD2	2.01	0.61
5:E:273:THR:HG22	5:E:364:PRO:CA	2.20	0.61
6:F:433:LYS:HB3	6:F:441:LYS:HA	1.80	0.61
7:G:239:PRO:HD2	7:G:349:CYS:O	2.01	0.61
2:J:3:VAL:C	2:J:5:ILE:HG21	2.24	0.61
6:N:36:ASN:HB3	6:N:57:LYS:HZ3	0.81	0.61
6:N:454:ILE:N	6:N:455:PRO:CD	2.64	0.61
6:f:1169:VAL:C	6:f:1172:PRO:HD2	2.26	0.61
8:p:1335:VAL:HG22	8:p:1379:SER:HB2	1.82	0.61
1:A:540:ARG:O	5:E:70:LEU:HB3	2.00	0.61
3:C:41:PRO:HA	3:C:161:THR:HG21	1.82	0.61
4:D:524:ILE:CG2	7:G:52:LEU:O	2.47	0.61
5:E:509:ASN:CG	5:E:523:LYS:HB2	2.24	0.61
6:F:169:VAL:C	6:F:172:PRO:HD2	2.26	0.61
6:F:454:ILE:N	6:F:455:PRO:CD	2.64	0.61
8:H:109:GLU:O	8:H:113:VAL:HG23	2.00	0.61
2:J:203:LEU:O	2:J:204:SER:CB	2.49	0.61
3:K:149:ALA:HA	3:K:152:LYS:HG3	1.83	0.61
3:K:462:GLY:O	3:K:464:PRO:HD3	1.99	0.61
6:N:178:VAL:O	6:N:182:TYR:N	2.34	0.61
3:c:1062:HIS:O	3:c:1066:ARG:HG3	2.00	0.61
5:e:1050:HIS:HB3	5:e:1100:ILE:HG21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1229:LYS:HA	6:f:1353:LEU:HD23	1.82	0.61
7:g:1483:PHE:CB	9:g:1601:ADP:N6	2.63	0.61
8:h:1362:GLU:HG2	8:h:1367:ARG:HA	1.82	0.61
1:i:1256:MET:HE1	1:i:1261:GLN:HA	1.83	0.61
3:k:1223:VAL:HG11	3:k:1328:ILE:CG1	2.29	0.61
6:n:1331:VAL:O	6:n:1332:THR:OG1	2.12	0.61
1:A:218:LEU:HD13	1:A:219:VAL:N	2.16	0.61
3:C:149:ALA:HA	3:C:152:LYS:HG3	1.83	0.61
6:F:7:ASN:OD1	6:F:8:PRO:HD2	1.99	0.61
1:I:70:LEU:HD23	1:I:73:LEU:HD22	1.83	0.61
1:I:256:MET:HE1	1:I:261:GLN:HA	1.83	0.61
1:I:348:GLU:N	1:I:349:THR:HB	2.16	0.61
5:M:183:ALA:O	5:M:187:SER:HB2	2.00	0.61
5:M:252:PRO:HA	5:M:255:PRO:C	2.26	0.61
7:O:307:PHE:HD1	7:O:312:ILE:HG23	1.64	0.61
8:P:131:TYR:CD2	8:P:452:PHE:HD2	2.17	0.61
8:P:335:VAL:HG22	8:P:379:SER:HB2	1.82	0.61
1:a:1218:LEU:HD13	1:a:1219:VAL:N	2.16	0.61
2:b:1203:LEU:O	2:b:1204:SER:CB	2.49	0.61
2:b:1375:GLN:NE2	6:f:1075:LEU:HD12	2.15	0.61
3:c:1031:VAL:HG11	3:c:1070:VAL:HG11	1.81	0.61
6:f:1125:ALA:HB2	6:f:1444:ILE:HG23	1.82	0.61
6:f:1173:ILE:HD11	6:f:1209:PHE:HB3	1.82	0.61
6:f:1515:ASN:HD22	6:f:1516:ALA:N	1.98	0.61
1:i:1113:ASN:HA	1:i:1116:VAL:HG22	1.83	0.61
1:i:1118:ASN:O	1:i:1119:LYS:HG2	2.00	0.61
1:i:1480:TYR:O	1:i:1483:ALA:HB3	2.00	0.61
1:A:266:ASP:N	1:A:267:PRO:HD2	2.15	0.61
1:A:348:GLU:N	1:A:349:THR:HB	2.16	0.61
4:D:499:GLN:HE22	9:D:601:ADP:C2'	2.13	0.61
6:F:173:ILE:HD11	6:F:209:PHE:HB3	1.82	0.61
6:F:178:VAL:O	6:F:182:TYR:N	2.34	0.61
6:F:437:LYS:HE2	6:F:437:LYS:HA	1.83	0.61
7:G:43:THR:HG22	7:G:64:ASN:CB	2.27	0.61
1:I:218:LEU:HD13	1:I:219:VAL:N	2.16	0.61
3:K:96:VAL:HG13	3:K:513:ALA:HB2	1.83	0.61
1:a:1187:VAL:HG21	1:a:1383:SER:HB3	1.83	0.61
5:e:1364:PRO:HG3	6:f:1307:ASP:CB	2.30	0.61
7:g:1037:GLN:HE21	7:g:1038:GLU:N	1.98	0.61
8:h:1227:VAL:HG22	8:h:1370:VAL:HG12	1.81	0.61
1:i:1065:ASP:O	1:i:1069:ILE:HB	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:1233:MET:HG2	1:i:1311:VAL:HG22	1.82	0.61
3:k:1250:LEU:HG	3:k:1301:VAL:CB	2.29	0.61
5:m:1174:GLU:O	5:m:1175:LEU:CG	2.47	0.61
6:n:1125:ALA:HB2	6:n:1444:ILE:HG23	1.82	0.61
6:n:1515:ASN:HD22	6:n:1516:ALA:N	1.99	0.61
7:o:1191:ARG:HD3	7:o:1192:ASN:N	2.16	0.61
3:C:299:LYS:HA	3:C:319:ARG:CB	2.31	0.61
4:D:485:ARG:NH2	9:D:601:ADP:HN62	1.99	0.61
6:F:98:VAL:HG22	6:F:520:ALA:HA	1.83	0.61
6:F:108:PHE:CE2	6:F:118:ILE:HG21	2.36	0.61
3:K:62:HIS:O	3:K:66:ARG:HG3	2.00	0.61
6:N:7:ASN:OD1	6:N:8:PRO:CD	2.49	0.61
6:N:7:ASN:OD1	6:N:8:PRO:HD2	1.99	0.61
6:N:143:LEU:CD1	6:N:145:ASN:CG	2.74	0.61
6:N:437:LYS:HE2	6:N:437:LYS:HA	1.83	0.61
1:a:1073:LEU:O	1:a:1074:ASP:HB3	2.00	0.61
1:a:1233:MET:HG2	1:a:1311:VAL:HG22	1.82	0.61
1:a:1266:ASP:N	1:a:1267:PRO:HD2	2.15	0.61
4:d:1284:ASN:O	4:d:1310:ILE:HG23	2.01	0.61
6:f:1143:LEU:CD1	6:f:1145:ASN:CG	2.74	0.61
6:f:1178:VAL:O	6:f:1182:TYR:N	2.34	0.61
6:f:1485:GLU:HB2	6:f:1488:TYR:O	2.01	0.61
7:g:1307:PHE:HD1	7:g:1312:ILE:HG23	1.64	0.61
5:m:1252:PRO:HA	5:m:1255:PRO:C	2.26	0.61
6:n:1178:VAL:O	6:n:1182:TYR:N	2.34	0.61
7:o:1165:ALA:HB2	7:o:1399:ILE:HG21	1.82	0.61
8:p:1227:VAL:HG21	8:p:1385:ILE:HD11	1.81	0.61
1:A:73:LEU:O	1:A:74:ASP:HB3	2.01	0.61
7:G:94:VAL:HG13	7:G:95:GLY:N	2.16	0.61
2:J:464:TYR:O	2:J:467:ILE:HD11	2.00	0.61
3:K:54:GLY:O	3:K:56:VAL:HG23	2.01	0.61
6:N:35:THR:CG2	6:N:42:THR:H	2.14	0.61
3:c:1050:ASP:HB2	3:c:1051:PRO:HD2	1.82	0.61
3:c:1142:PRO:HG3	3:c:1411:SER:HA	1.83	0.61
3:c:1264:GLU:C	3:c:1265:LYS:CG	2.62	0.61
6:f:1098:VAL:HG22	6:f:1520:ALA:HA	1.83	0.61
6:f:1117:ILE:CD1	5:m:1034:ASP:CA	2.72	0.61
6:f:1155:ARG:CB	6:f:1171:THR:HG21	2.30	0.61
6:f:1437:LYS:HE2	6:f:1437:LYS:HA	1.83	0.61
1:i:1348:GLU:N	1:i:1349:THR:HB	2.16	0.61
3:k:1054:GLY:O	3:k:1056:VAL:HG23	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:k:1062:HIS:O	3:k:1066:ARG:HG3	2.00	0.61
6:n:1007:ASN:OD1	6:n:1008:PRO:CD	2.49	0.61
6:n:1098:VAL:HG22	6:n:1520:ALA:HA	1.83	0.61
6:n:1155:ARG:CB	6:n:1171:THR:HG21	2.30	0.61
1:A:480:TYR:O	1:A:483:ALA:HB3	2.00	0.60
2:B:509:LEU:O	2:B:509:LEU:HD23	2.00	0.60
3:C:142:PRO:HG3	3:C:411:SER:HA	1.83	0.60
6:F:352:GLY:CA	6:F:369:GLU:C	2.48	0.60
8:H:138:THR:HG22	8:H:434:ILE:HD12	1.83	0.60
1:I:184:LEU:HD21	1:I:198:TYR:CB	2.28	0.60
6:N:458:LEU:HD12	6:N:458:LEU:O	2.01	0.60
1:a:1070:LEU:HD23	1:a:1073:LEU:HD22	1.83	0.60
1:a:1118:ASN:O	1:a:1119:LYS:HG2	2.00	0.60
5:e:1348:GLY:O	5:e:1351:LEU:HD11	2.00	0.60
7:g:1094:VAL:HG13	7:g:1095:GLY:N	2.16	0.60
2:j:1424:GLY:O	2:j:1427:SER:CB	2.49	0.60
2:j:1464:TYR:O	2:j:1467:ILE:HD11	2.00	0.60
6:n:1143:LEU:HA	6:n:1144:SER:C	2.24	0.60
6:n:1437:LYS:HE2	6:n:1437:LYS:HA	1.83	0.60
2:B:232:LEU:HD22	2:B:233:ILE:N	2.16	0.60
2:B:424:GLY:O	2:B:427:SER:CB	2.49	0.60
6:F:198:GLN:N	6:F:198:GLN:HE21	1.99	0.60
6:F:201:HIS:HB3	6:F:381:LYS:HZ3	1.65	0.60
2:J:295:GLU:OE1	6:N:339:SER:HB3	2.01	0.60
2:J:424:GLY:O	2:J:427:SER:CB	2.49	0.60
3:K:142:PRO:HG3	3:K:411:SER:HA	1.83	0.60
8:P:269:ASN:H	8:P:272:GLU:HG3	1.66	0.60
2:b:1384:LEU:O	2:b:1387:ALA:HB3	2.01	0.60
6:f:1458:LEU:HD12	6:f:1458:LEU:O	2.01	0.60
1:i:1218:LEU:HD13	1:i:1219:VAL:N	2.16	0.60
3:k:1299:LYS:HA	3:k:1319:ARG:CB	2.31	0.60
4:l:1284:ASN:O	4:l:1310:ILE:HG23	2.01	0.60
6:n:1229:LYS:HA	6:n:1353:LEU:HD23	1.82	0.60
2:B:27:ILE:CD1	2:B:104:ARG:HH11	2.09	0.60
2:B:397:GLU:OE1	2:B:399:ARG:HG3	2.01	0.60
2:B:422:ILE:HG21	2:B:427:SER:HB3	1.79	0.60
2:B:459:LEU:HD22	2:B:472:LEU:CG	2.26	0.60
6:F:35:THR:CG2	6:F:42:THR:H	2.14	0.60
6:F:264:ALA:O	6:F:268:LYS:HG2	2.02	0.60
6:F:478:ASP:O	6:F:482:ASP:CA	2.49	0.60
7:G:420:VAL:O	7:G:424:LEU:HG	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:100:ILE:HA	5:M:103:LEU:HD12	1.83	0.60
6:N:133:LEU:HD12	6:N:422:LEU:CD2	2.24	0.60
6:N:515:ASN:HD22	6:N:516:ALA:N	1.99	0.60
2:b:1263:LYS:NZ	3:c:1266:GLU:CB	2.64	0.60
6:f:1108:PHE:CE2	6:f:1118:ILE:HG21	2.36	0.60
6:f:1193:MET:HE3	6:f:1330:LEU:CD1	2.29	0.60
7:g:1126:MET:HE1	7:g:1515:ASN:CB	2.31	0.60
8:h:1138:THR:HG22	8:h:1434:ILE:HD12	1.83	0.60
7:o:1094:VAL:HG13	7:o:1095:GLY:N	2.16	0.60
7:o:1413:GLY:HA3	7:o:1491:ASN:ND2	2.15	0.60
8:p:1362:GLU:HG2	8:p:1367:ARG:HA	1.82	0.60
3:C:512:THR:HG23	8:H:389:ALA:HB1	1.83	0.60
5:E:50:HIS:HB3	5:E:100:ILE:HG21	1.82	0.60
6:F:229:LYS:HA	6:F:353:LEU:HD23	1.82	0.60
6:F:458:LEU:HD12	6:F:458:LEU:O	2.01	0.60
1:I:73:LEU:O	1:I:74:ASP:HB3	2.00	0.60
2:J:38:GLY:HA3	2:J:474:LEU:HD11	1.83	0.60
2:J:357:SER:CB	2:J:360:LYS:CB	2.69	0.60
5:M:433:LEU:HD11	5:M:439:VAL:HG13	1.82	0.60
3:c:1457:ILE:CD1	3:c:1467:LEU:HD22	2.31	0.60
4:d:1524:ILE:HG23	7:g:1052:LEU:HD22	1.84	0.60
9:f:1601:ADP:C8	9:f:1601:ADP:O2'	2.53	0.60
7:g:1239:PRO:HD2	7:g:1349:CYS:O	2.01	0.60
8:h:1153:LYS:H	8:h:1153:LYS:CD	2.15	0.60
1:i:1073:LEU:O	1:i:1074:ASP:CB	2.50	0.60
1:i:1187:VAL:HG21	1:i:1383:SER:HB3	1.82	0.60
2:j:1203:LEU:O	2:j:1204:SER:CB	2.49	0.60
6:n:1035:THR:CG2	6:n:1042:THR:H	2.14	0.60
6:n:1167:THR:HB	6:n:1169:VAL:H	1.66	0.60
6:n:1478:ASP:O	6:n:1482:ASP:CA	2.49	0.60
2:B:4:GLN:C	2:B:5:ILE:CG2	2.73	0.60
2:B:384:LEU:O	2:B:387:ALA:HB3	2.01	0.60
4:D:284:ASN:O	4:D:310:ILE:HG23	2.01	0.60
5:E:252:PRO:HA	5:E:255:PRO:C	2.26	0.60
6:F:151:LEU:O	6:F:171:THR:CG2	2.50	0.60
3:K:9:ASN:ND2	3:K:10:ALA:N	2.50	0.60
3:K:299:LYS:HA	3:K:319:ARG:CB	2.31	0.60
4:L:284:ASN:O	4:L:310:ILE:HG23	2.01	0.60
6:N:108:PHE:CE2	6:N:118:ILE:HG21	2.36	0.60
6:N:143:LEU:HA	6:N:144:SER:C	2.24	0.60
6:N:465:ASP:CA	6:N:466:PRO:C	2.68	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:94:VAL:HG13	7:O:95:GLY:N	2.16	0.60
7:O:174:ASN:OD1	7:O:174:ASN:N	2.33	0.60
1:a:1348:GLU:N	1:a:1349:THR:HB	2.16	0.60
3:c:1096:VAL:HG13	3:c:1513:ALA:HB2	1.83	0.60
5:e:1492:ILE:HD11	2:j:1115:ILE:HG12	1.82	0.60
6:f:1035:THR:CG2	6:f:1042:THR:H	2.14	0.60
6:f:1160:THR:H	6:f:1164:ALA:HB3	1.67	0.60
7:g:1174:ASN:N	7:g:1174:ASN:OD1	2.34	0.60
7:g:1293:VAL:HG13	7:g:1312:ILE:HD11	1.84	0.60
1:i:1073:LEU:O	1:i:1074:ASP:HB3	2.01	0.60
3:k:1223:VAL:HG11	3:k:1328:ILE:HG13	1.83	0.60
5:m:1351:LEU:HD13	5:m:1351:LEU:H	1.67	0.60
6:n:1143:LEU:CD1	6:n:1145:ASN:CG	2.74	0.60
6:n:1160:THR:H	6:n:1164:ALA:HB3	1.67	0.60
8:p:1153:LYS:H	8:p:1153:LYS:CD	2.15	0.60
1:A:90:GLN:OE1	1:A:96:ASP:O	2.17	0.60
3:C:9:ASN:ND2	3:C:10:ALA:N	2.50	0.60
6:F:5:LEU:CB	6:F:6:LEU:C	2.75	0.60
6:F:7:ASN:OD1	6:F:8:PRO:CD	2.49	0.60
7:G:293:VAL:HG13	7:G:312:ILE:HD11	1.84	0.60
1:I:65:ASP:O	1:I:69:ILE:HB	2.01	0.60
1:I:113:ASN:HA	1:I:116:VAL:HG22	1.83	0.60
3:K:223:VAL:HG11	3:K:328:ILE:HG13	1.83	0.60
6:N:61:VAL:HG12	6:N:62:LEU:HD23	1.84	0.60
6:N:98:VAL:HG22	6:N:520:ALA:HA	1.83	0.60
6:N:160:THR:H	6:N:164:ALA:HB3	1.67	0.60
8:P:182:VAL:O	8:P:186:VAL:HG23	2.02	0.60
2:b:1232:LEU:HD22	2:b:1233:ILE:N	2.16	0.60
5:e:1323:CYS:O	5:e:1344:ARG:HA	2.02	0.60
6:f:1143:LEU:HA	6:f:1144:SER:C	2.24	0.60
8:h:1006:PRO:CB	4:l:1071:LEU:O	2.49	0.60
3:k:1457:ILE:CD1	3:k:1467:LEU:HD22	2.31	0.60
6:n:1458:LEU:HD12	6:n:1458:LEU:O	2.01	0.60
6:n:1485:GLU:HB2	6:n:1488:TYR:O	2.01	0.60
7:o:1043:THR:HG22	7:o:1064:ASN:CB	2.27	0.60
8:p:1138:THR:HG22	8:p:1434:ILE:HD12	1.83	0.60
2:B:3:VAL:C	2:B:5:ILE:HG21	2.25	0.60
2:B:200:GLY:O	2:B:371:GLY:N	2.28	0.60
2:B:326:VAL:HG13	3:C:304:LEU:HD22	1.83	0.60
2:B:487:ILE:HD12	9:B:601:ADP:N6	2.17	0.60
8:H:182:VAL:O	8:H:186:VAL:HG23	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:397:GLU:OE1	2:J:399:ARG:HG3	2.02	0.60
6:N:198:GLN:N	6:N:198:GLN:HE21	1.99	0.60
6:N:233:VAL:HG12	6:N:294:VAL:HG22	1.84	0.60
6:N:430:ASN:HA	6:N:433:LYS:CB	2.32	0.60
1:a:1184:LEU:CD2	1:a:1198:TYR:CG	2.69	0.60
5:e:1055:ARG:HH21	5:e:1134:LEU:HD13	1.67	0.60
5:e:1281:PRO:HD2	5:e:1285:HIS:HB3	1.84	0.60
6:f:1109:ILE:HG13	5:m:1039:LYS:HZ3	1.66	0.60
6:f:1198:GLN:N	6:f:1198:GLN:HE21	1.99	0.60
6:f:1353:LEU:HB2	6:f:1368:THR:OG1	2.00	0.60
8:h:1068:ALA:H	8:h:1101:ASN:HD21	1.49	0.60
8:h:1459:VAL:O	8:h:1463:LEU:HD23	2.02	0.60
2:j:1242:LYS:HB2	3:k:1269:TRP:CZ2	2.26	0.60
4:l:1012:LYS:HD3	4:l:1526:PHE:O	2.01	0.60
6:n:1352:GLY:CA	6:n:1369:GLU:C	2.48	0.60
1:A:187:VAL:HG21	1:A:383:SER:HB3	1.83	0.60
3:C:96:VAL:HG13	3:C:513:ALA:HB2	1.83	0.60
6:F:125:ALA:HB2	6:F:444:ILE:HG23	1.82	0.60
6:F:233:VAL:HG12	6:F:294:VAL:HG22	1.84	0.60
6:F:485:GLU:HB2	6:F:488:TYR:O	2.01	0.60
7:G:109:MET:CG	7:G:514:THR:CG2	2.79	0.60
7:G:208:ALA:HB3	7:G:211:GLU:HG3	1.84	0.60
2:J:384:LEU:O	2:J:387:ALA:HB3	2.01	0.60
2:J:437:LEU:O	2:J:441:PRO:HD2	2.00	0.60
4:L:524:ILE:CG2	7:O:52:LEU:O	2.50	0.60
5:M:210:ASN:H	5:M:210:ASN:HD22	1.48	0.60
6:N:5:LEU:CB	6:N:6:LEU:C	2.75	0.60
6:N:155:ARG:CB	6:N:171:THR:HG21	2.30	0.60
6:N:264:ALA:O	6:N:268:LYS:HG2	2.02	0.60
6:N:389:ALA:O	6:N:393:ASP:OD2	2.20	0.60
7:O:37:GLN:HE21	7:O:38:GLU:N	1.98	0.60
1:a:1183:ALA:HB1	1:a:1383:SER:OG	2.02	0.60
2:b:1424:GLY:O	2:b:1427:SER:CB	2.49	0.60
3:c:1009:ASN:ND2	3:c:1010:ALA:N	2.50	0.60
3:c:1508:GLN:HG2	8:h:1215:GLY:HA2	1.83	0.60
5:e:1034:ASP:HA	6:n:1117:ILE:HD12	1.73	0.60
5:e:1252:PRO:HA	5:e:1255:PRO:C	2.26	0.60
6:f:1007:ASN:OD1	6:f:1008:PRO:CD	2.49	0.60
6:f:1264:ALA:O	6:f:1268:LYS:HG2	2.02	0.60
2:j:1295:GLU:OE2	6:n:1338:ASN:HB2	2.01	0.60
2:j:1295:GLU:HB2	6:n:1337:GLN:NE2	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l:1012:LYS:HZ2	7:o:1073:LEU:HD22	1.66	0.60
5:m:1273:THR:HG21	5:m:1364:PRO:HA	1.78	0.60
6:n:1173:ILE:HD11	6:n:1209:PHE:HB3	1.82	0.60
6:n:1389:ALA:O	6:n:1393:ASP:OD2	2.20	0.60
8:p:1182:VAL:O	8:p:1186:VAL:HG23	2.02	0.60
1:A:183:ALA:HB1	1:A:383:SER:OG	2.02	0.60
2:B:27:ILE:HD12	2:B:104:ARG:HD2	1.84	0.60
2:B:203:LEU:O	2:B:204:SER:CB	2.49	0.60
3:C:42:LYS:CB	3:C:460:ALA:CA	2.75	0.60
3:C:229:VAL:HG12	3:C:230:VAL:N	2.17	0.60
6:F:61:VAL:HG12	6:F:62:LEU:HD23	1.84	0.60
6:F:170:LEU:HA	6:F:173:ILE:HG22	1.84	0.60
3:K:457:ILE:CD1	3:K:467:LEU:HD22	2.31	0.60
6:N:38:GLY:H	9:N:601:ADP:H5'1	1.66	0.60
6:N:151:LEU:CG	6:N:175:THR:HG23	2.32	0.60
7:O:126:MET:HE1	7:O:515:ASN:CB	2.31	0.60
8:P:162:MET:O	8:P:165:PRO:HD2	2.02	0.60
8:P:459:VAL:O	8:P:463:LEU:HD23	2.02	0.60
1:a:1065:ASP:O	1:a:1069:ILE:HB	2.01	0.60
1:a:1256:MET:HE1	1:a:1261:GLN:HA	1.83	0.60
1:a:1333:THR:HB	1:a:1357:LEU:H	1.67	0.60
4:d:1044:MET:HE3	8:h:1531:ALA:HB2	1.84	0.60
8:h:1162:MET:O	8:h:1165:PRO:HD2	2.02	0.60
2:j:1038:GLY:HA3	2:j:1474:LEU:HD11	1.83	0.60
3:k:1009:ASN:ND2	3:k:1010:ALA:N	2.50	0.60
6:n:1169:VAL:C	6:n:1172:PRO:HD2	2.26	0.60
6:n:1264:ALA:O	6:n:1268:LYS:HG2	2.02	0.60
3:C:54:GLY:O	3:C:56:VAL:HG23	2.01	0.60
5:E:323:CYS:O	5:E:344:ARG:HA	2.02	0.60
6:F:143:LEU:CD1	6:F:145:ASN:CG	2.74	0.60
6:F:389:ALA:O	6:F:393:ASP:OD2	2.20	0.60
7:G:191:ARG:HD3	7:G:192:ASN:N	2.16	0.60
1:I:183:ALA:HB1	1:I:383:SER:OG	2.02	0.60
4:L:210:ILE:O	4:L:375:VAL:HG12	2.02	0.60
5:M:273:THR:HG21	5:M:364:PRO:HA	1.78	0.60
7:O:165:ALA:HB2	7:O:399:ILE:HG21	1.82	0.60
8:P:153:LYS:H	8:P:153:LYS:CD	2.15	0.60
1:a:1418:VAL:HG12	1:a:1419:VAL:N	2.17	0.60
5:e:1273:THR:HG21	5:e:1364:PRO:HA	1.78	0.60
6:f:1352:GLY:O	6:f:1353:LEU:O	2.20	0.60
6:f:1478:ASP:O	6:f:1482:ASP:CA	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l:1069:ALA:O	8:p:1015:LYS:HE2	2.02	0.60
6:n:1406:LEU:C	6:n:1407:LYS:HE3	2.27	0.60
6:n:1430:ASN:HA	6:n:1433:LYS:CB	2.32	0.60
7:o:1293:VAL:HG13	7:o:1312:ILE:HD11	1.84	0.60
1:A:333:THR:HB	1:A:357:LEU:H	1.67	0.59
3:C:258:GLN:O	8:H:264:THR:HB	2.02	0.59
6:F:352:GLY:O	6:F:353:LEU:O	2.20	0.59
8:H:162:MET:O	8:H:165:PRO:HD2	2.02	0.59
3:K:229:VAL:HG12	3:K:230:VAL:N	2.17	0.59
8:P:146:VAL:C	8:P:148:GLY:H	2.10	0.59
8:P:362:GLU:HG2	8:P:367:ARG:HA	1.82	0.59
4:d:1012:LYS:HD3	4:d:1526:PHE:O	2.01	0.59
4:d:1238:GLN:HB2	4:d:1290:LYS:HE3	1.84	0.59
6:f:1133:LEU:HD12	6:f:1422:LEU:CD2	2.24	0.59
6:f:1151:LEU:O	6:f:1171:THR:CG2	2.50	0.59
8:h:1182:VAL:O	8:h:1186:VAL:HG23	2.02	0.59
1:i:1267:PRO:HB3	1:i:1268:GLU:C	2.27	0.59
5:m:1088:ALA:CB	5:m:1119:THR:HB	2.29	0.59
5:m:1335:LEU:HD22	5:m:1340:LEU:HD11	1.84	0.59
6:n:1198:GLN:N	6:n:1198:GLN:HE21	1.99	0.59
7:o:1126:MET:HE1	7:o:1515:ASN:CB	2.31	0.59
7:o:1208:ALA:HB3	7:o:1211:GLU:HG3	1.84	0.59
3:C:457:ILE:CD1	3:C:467:LEU:HD22	2.31	0.59
4:D:71:LEU:HA	8:P:6:PRO:CG	2.31	0.59
6:F:415:ALA:CB	6:F:506:ILE:HG21	2.30	0.59
1:I:333:THR:HB	1:I:357:LEU:H	1.67	0.59
5:M:281:PRO:HD2	5:M:285:HIS:HB3	1.84	0.59
6:N:485:GLU:HB2	6:N:488:TYR:O	2.01	0.59
7:O:293:VAL:HG13	7:O:312:ILE:HD11	1.83	0.59
1:a:1073:LEU:O	1:a:1074:ASP:CB	2.50	0.59
6:f:1005:LEU:CB	6:f:1006:LEU:C	2.75	0.59
7:g:1401:LYS:HG3	7:g:1402:ARG:N	2.17	0.59
8:h:1146:VAL:C	8:h:1148:GLY:H	2.10	0.59
2:j:1005:ILE:O	3:k:1070:VAL:HA	2.02	0.59
2:j:1027:ILE:HD12	2:j:1104:ARG:HD2	1.84	0.59
2:j:1232:LEU:HD22	2:j:1233:ILE:N	2.17	0.59
3:k:1041:PRO:HA	3:k:1161:THR:HG21	1.82	0.59
3:k:1149:ALA:HA	3:k:1152:LYS:HG3	1.83	0.59
4:l:1110:LEU:HD13	4:l:1439:ILE:HD12	1.85	0.59
5:m:1240:ILE:HG12	5:m:1244:ILE:CG2	2.32	0.59
6:n:1108:PHE:CE2	6:n:1118:ILE:HG21	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:65:ASP:O	1:A:69:ILE:HB	2.01	0.59
2:B:213:ILE:H	2:B:213:ILE:HD12	1.67	0.59
5:E:39:LYS:HZ3	6:N:109:ILE:CG1	2.15	0.59
6:F:92:THR:HG21	10:F:602:BEF:F3	1.92	0.59
6:F:201:HIS:HB3	6:F:381:LYS:CE	2.32	0.59
6:F:406:LEU:C	6:F:407:LYS:HE3	2.27	0.59
7:G:174:ASN:OD1	7:G:174:ASN:N	2.34	0.59
8:H:153:LYS:H	8:H:153:LYS:CD	2.15	0.59
8:H:177:ILE:O	8:H:180:GLU:HB2	2.03	0.59
1:I:97:GLY:O	1:I:101:VAL:HG23	2.02	0.59
3:K:42:LYS:CB	3:K:460:ALA:CA	2.75	0.59
5:M:74:LEU:CD1	5:M:93:GLN:HB3	2.33	0.59
5:M:351:LEU:HD13	5:M:351:LEU:H	1.67	0.59
6:N:151:LEU:O	6:N:171:THR:CG2	2.50	0.59
6:N:167:THR:HB	6:N:169:VAL:H	1.66	0.59
7:O:189:LEU:O	7:O:189:LEU:CD1	2.50	0.59
7:O:401:LYS:HG3	7:O:402:ARG:N	2.17	0.59
8:P:138:THR:HG22	8:P:434:ILE:HD12	1.83	0.59
1:a:1113:ASN:HA	1:a:1116:VAL:HG22	1.83	0.59
2:b:1348:LEU:HD21	6:f:1086:ILE:CA	2.20	0.59
3:c:1223:VAL:HG11	3:c:1328:ILE:HG13	1.83	0.59
6:f:1389:ALA:O	6:f:1393:ASP:OD2	2.20	0.59
6:f:1454:ILE:N	6:f:1455:PRO:CD	2.64	0.59
8:h:1288:MET:CE	8:h:1313:LEU:HG	2.32	0.59
1:i:1070:LEU:HD23	1:i:1073:LEU:HD22	1.83	0.59
1:i:1418:VAL:HG12	1:i:1419:VAL:N	2.17	0.59
2:j:1384:LEU:O	2:j:1387:ALA:HB3	2.01	0.59
6:n:1352:GLY:O	6:n:1353:LEU:O	2.20	0.59
8:p:1146:VAL:C	8:p:1148:GLY:H	2.10	0.59
1:A:97:GLY:O	1:A:101:VAL:HG23	2.02	0.59
1:A:113:ASN:HA	1:A:116:VAL:HG22	1.83	0.59
3:C:57:LEU:N	3:C:57:LEU:CD2	2.57	0.59
3:C:275:ILE:HA	8:H:274:LEU:HD21	1.84	0.59
4:D:81:VAL:HG22	7:G:382:ALA:HB2	1.84	0.59
4:D:238:GLN:HB2	4:D:290:LYS:HE3	1.84	0.59
6:F:430:ASN:HA	6:F:433:LYS:CB	2.32	0.59
4:L:44:MET:HG3	8:P:531:ALA:HB3	1.83	0.59
5:M:55:ARG:HH21	5:M:134:LEU:HD13	1.67	0.59
6:N:478:ASP:O	6:N:482:ASP:CA	2.49	0.59
7:O:109:MET:CG	7:O:514:THR:CG2	2.79	0.59
8:P:146:VAL:HG13	8:P:147:VAL:H	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:177:ILE:O	8:P:180:GLU:HB2	2.03	0.59
2:b:1072:PRO:CG	3:c:1047:MET:HE1	2.32	0.59
6:f:1201:HIS:HB3	6:f:1381:LYS:CE	2.32	0.59
6:f:1430:ASN:HA	6:f:1433:LYS:CB	2.32	0.59
8:h:1094:ILE:HD12	8:h:1095:ASP:N	2.18	0.59
8:h:1322:LYS:O	8:h:1324:PRO:HD3	2.02	0.59
3:k:1096:VAL:HG13	3:k:1513:ALA:HB2	1.83	0.59
3:k:1250:LEU:CD1	3:k:1301:VAL:CG2	2.72	0.59
6:n:1454:ILE:N	6:n:1455:PRO:CD	2.64	0.59
8:p:1094:ILE:HD12	8:p:1095:ASP:N	2.18	0.59
8:p:1322:LYS:O	8:p:1324:PRO:HD3	2.02	0.59
1:A:70:LEU:HD23	1:A:73:LEU:HD22	1.83	0.59
1:A:256:MET:HE1	1:A:261:GLN:HA	1.83	0.59
3:C:223:VAL:HG11	3:C:328:ILE:HG13	1.83	0.59
6:F:485:GLU:HG3	6:F:489:VAL:HB	1.85	0.59
8:H:362:GLU:HG2	8:H:367:ARG:HA	1.82	0.59
8:H:459:VAL:O	8:H:463:LEU:HD23	2.02	0.59
1:I:159:ILE:HD11	1:I:418:VAL:HG11	1.84	0.59
1:I:418:VAL:HG12	1:I:419:VAL:N	2.17	0.59
3:K:41:PRO:HA	3:K:161:THR:HG21	1.82	0.59
4:L:12:LYS:HD3	4:L:526:PHE:O	2.01	0.59
4:L:254:VAL:HG23	4:L:254:VAL:O	2.01	0.59
1:a:1097:GLY:O	1:a:1101:VAL:HG23	2.02	0.59
3:c:1054:GLY:O	3:c:1056:VAL:HG23	2.01	0.59
3:c:1149:ALA:HA	3:c:1152:LYS:HG3	1.83	0.59
3:c:1299:LYS:HA	3:c:1319:ARG:CB	2.31	0.59
4:d:1089:ALA:HB1	4:d:1503:VAL:HG22	1.85	0.59
4:d:1254:VAL:HG23	4:d:1254:VAL:O	2.02	0.59
5:e:1100:ILE:HA	5:e:1103:LEU:HD12	1.83	0.59
5:e:1335:LEU:HD22	5:e:1340:LEU:HD11	1.84	0.59
5:e:1352:GLU:HA	6:f:1222:PRO:HG3	1.84	0.59
6:f:1154:ALA:O	6:f:1157:SER:OG	2.12	0.59
6:f:1201:HIS:HB3	6:f:1381:LYS:HZ3	1.68	0.59
6:f:1485:GLU:HG3	6:f:1489:VAL:HB	1.85	0.59
8:h:1177:ILE:O	8:h:1180:GLU:HB2	2.03	0.59
3:k:1229:VAL:HG12	3:k:1230:VAL:N	2.17	0.59
4:l:1379:ILE:H	4:l:1379:ILE:HD12	1.68	0.59
5:m:1074:LEU:CD1	5:m:1093:GLN:HB3	2.33	0.59
7:o:1191:ARG:CD	7:o:1192:ASN:N	2.61	0.59
8:p:1288:MET:CE	8:p:1313:LEU:HG	2.33	0.59
4:D:12:LYS:HD3	4:D:526:PHE:O	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:241:ASN:O	5:E:241:ASN:ND2	2.34	0.59
6:N:125:ALA:HB2	6:N:444:ILE:HG23	1.82	0.59
8:P:322:LYS:O	8:P:324:PRO:HD3	2.02	0.59
2:b:1038:GLY:HA3	2:b:1474:LEU:HD11	1.83	0.59
4:d:1147:ARG:HG2	4:d:1148:GLU:N	2.18	0.59
7:g:1191:ARG:HD3	7:g:1192:ASN:N	2.16	0.59
3:k:1142:PRO:HG3	3:k:1411:SER:HA	1.83	0.59
4:l:1210:ILE:O	4:l:1375:VAL:HG12	2.02	0.59
5:m:1100:ILE:HA	5:m:1103:LEU:HD12	1.83	0.59
5:m:1253:GLN:H	5:m:1254:MET:CB	2.16	0.59
6:n:1005:LEU:CB	6:n:1006:LEU:C	2.75	0.59
6:n:1105:ALA:C	6:n:1107:ARG:H	2.10	0.59
6:n:1151:LEU:O	6:n:1171:THR:CG2	2.50	0.59
8:p:1177:ILE:O	8:p:1180:GLU:HB2	2.02	0.59
1:A:73:LEU:O	1:A:74:ASP:CB	2.50	0.59
4:D:336:ILE:HG23	4:D:339:PHE:HB3	1.85	0.59
4:D:379:ILE:H	4:D:379:ILE:HD12	1.68	0.59
5:E:351:LEU:HD13	5:E:351:LEU:H	1.67	0.59
7:G:126:MET:HE1	7:G:515:ASN:CB	2.31	0.59
8:H:269:ASN:H	8:H:272:GLU:HG3	1.66	0.59
8:H:322:LYS:O	8:H:324:PRO:HD3	2.02	0.59
1:I:73:LEU:O	1:I:74:ASP:CB	2.50	0.59
2:J:27:ILE:HD12	2:J:104:ARG:HD2	1.83	0.59
3:K:414:PRO:O	3:K:418:ALA:HB3	2.03	0.59
4:L:336:ILE:HG23	4:L:339:PHE:HB3	1.85	0.59
5:M:32:VAL:HG22	5:M:33:LYS:N	2.13	0.59
2:b:1397:GLU:OE1	2:b:1399:ARG:HG3	2.02	0.59
4:d:1298:ASN:HB3	4:d:1299:ASP:HA	1.84	0.59
5:e:1240:ILE:HG12	5:e:1244:ILE:CG2	2.32	0.59
1:i:1183:ALA:HB1	1:i:1383:SER:OG	2.02	0.59
2:j:1263:LYS:HZ3	3:k:1266:GLU:CG	2.14	0.59
3:k:1452:ILE:HB	3:k:1453:PRO:HD3	1.85	0.59
5:m:1323:CYS:O	5:m:1344:ARG:HA	2.02	0.59
6:n:1154:ALA:O	6:n:1157:SER:OG	2.12	0.59
6:n:1540:THR:O	6:n:1541:LEU:HD23	2.03	0.59
7:o:1484:GLU:CB	7:o:1485:THR:HA	2.32	0.59
8:p:1146:VAL:HG13	8:p:1147:VAL:H	1.68	0.59
1:A:164:MET:O	1:A:167:LYS:CB	2.51	0.59
2:B:326:VAL:HG22	3:C:304:LEU:HD22	1.85	0.59
4:D:521:ILE:CG2	7:G:52:LEU:H	2.15	0.59
5:E:74:LEU:CD1	5:E:93:GLN:HB3	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:238:ASN:N	7:G:239:PRO:CD	2.66	0.59
8:H:94:ILE:HD12	8:H:95:ASP:N	2.18	0.59
2:J:32:LEU:CD1	6:N:532:GLU:OE2	2.51	0.59
6:N:201:HIS:HB3	6:N:381:LYS:CE	2.33	0.59
6:N:540:THR:O	6:N:541:LEU:HD23	2.03	0.59
7:O:191:ARG:HD3	7:O:192:ASN:N	2.16	0.59
1:a:1159:ILE:HD11	1:a:1418:VAL:HG11	1.84	0.59
4:d:1210:ILE:O	4:d:1375:VAL:HG12	2.02	0.59
6:f:1231:ALA:HB1	6:f:1293:PHE:N	2.18	0.59
6:f:1406:LEU:C	6:f:1407:LYS:HE3	2.27	0.59
6:f:1415:ALA:CB	6:f:1506:ILE:HG21	2.30	0.59
1:i:1184:LEU:CD2	1:i:1184:LEU:C	2.76	0.59
4:l:1336:ILE:HG23	4:l:1339:PHE:HB3	1.85	0.59
6:n:1485:GLU:HG3	6:n:1489:VAL:HB	1.85	0.59
3:C:414:PRO:O	3:C:418:ALA:HB3	2.03	0.59
4:D:103:LEU:HD13	4:D:515:VAL:HG21	1.85	0.59
4:D:330:CYS:N	4:D:345:ASP:OD2	2.36	0.59
5:E:240:ILE:HG12	5:E:244:ILE:CG2	2.32	0.59
5:E:335:LEU:HD22	5:E:340:LEU:HD11	1.84	0.59
6:F:109:ILE:O	5:M:39:LYS:HE2	2.02	0.59
2:J:232:LEU:HD22	2:J:233:ILE:N	2.17	0.59
6:N:352:GLY:O	6:N:353:LEU:O	2.20	0.59
1:a:1158:ASN:CG	1:a:1516:GLY:HA2	2.28	0.59
2:b:1213:ILE:H	2:b:1213:ILE:HD12	1.67	0.59
6:f:1280:LEU:HD13	6:f:1343:LEU:HD21	1.85	0.59
1:i:1350:PHE:CE2	1:i:1354:TYR:CB	2.85	0.59
2:j:1397:GLU:OE1	2:j:1399:ARG:HG3	2.01	0.59
3:k:1296:ILE:HG23	3:k:1320:VAL:HG21	1.85	0.59
4:l:1147:ARG:HG2	4:l:1148:GLU:N	2.18	0.59
5:m:1032:VAL:HG22	5:m:1033:LYS:N	2.13	0.59
6:n:1201:HIS:HB3	6:n:1381:LYS:CE	2.32	0.59
6:n:1280:LEU:HD13	6:n:1343:LEU:HD21	1.85	0.59
7:o:1393:LEU:HD22	7:o:1397:ILE:HG13	1.85	0.59
8:p:1269:ASN:H	8:p:1272:GLU:HG3	1.66	0.59
1:A:267:PRO:HB3	1:A:268:GLU:C	2.28	0.59
3:C:508:GLN:HG2	8:H:215:GLY:HA2	1.85	0.59
5:E:281:PRO:HD2	5:E:285:HIS:HB3	1.84	0.59
5:E:373:LYS:HE2	6:F:311:LYS:NZ	2.18	0.59
6:F:43:LEU:CD2	6:F:57:LYS:CB	2.78	0.59
6:F:433:LYS:HG3	6:F:444:ILE:CG1	2.33	0.59
8:H:217:LEU:HA	8:H:387:ARG:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:288:MET:CE	8:H:313:LEU:HG	2.33	0.59
5:M:544:LEU:HD23	6:N:384:THR:HG21	1.85	0.59
6:N:201:HIS:HB3	6:N:381:LYS:HE2	1.85	0.59
6:N:406:LEU:C	6:N:407:LYS:HE3	2.27	0.59
7:O:484:GLU:CB	7:O:485:THR:HA	2.32	0.59
2:b:1003:VAL:C	2:b:1005:ILE:HG21	2.24	0.59
3:c:1414:PRO:O	3:c:1418:ALA:HB3	2.03	0.59
4:d:1065:LEU:HD13	4:d:1079:VAL:HG13	1.85	0.59
5:e:1074:LEU:CD1	5:e:1093:GLN:HB3	2.32	0.59
6:f:1057:LYS:HG2	6:f:1057:LYS:O	2.03	0.59
6:f:1061:VAL:HG12	6:f:1062:LEU:HD23	1.84	0.59
4:l:1065:LEU:HD13	4:l:1079:VAL:HG13	1.85	0.59
5:m:1068:ARG:HD3	5:m:1514:CYS:HB3	1.85	0.59
6:n:1201:HIS:HB3	6:n:1381:LYS:HE2	1.85	0.59
7:o:1109:MET:CG	7:o:1514:THR:CG2	2.79	0.59
8:p:1068:ALA:H	8:p:1101:ASN:HD21	1.49	0.59
3:C:151:MET:O	3:C:155:ILE:HG12	2.04	0.58
3:C:265:LYS:O	3:C:268:ASP:OD1	2.21	0.58
5:E:55:ARG:HH21	5:E:134:LEU:HD13	1.67	0.58
5:E:100:ILE:HA	5:E:103:LEU:HD12	1.83	0.58
5:E:350:GLU:O	5:E:351:LEU:C	2.46	0.58
6:F:57:LYS:O	6:F:57:LYS:HG2	2.03	0.58
6:F:160:THR:H	6:F:164:ALA:HB3	1.67	0.58
4:L:128:ALA:O	4:L:132:VAL:HG23	2.03	0.58
4:L:334:ALA:HB3	7:O:305:GLN:HB2	1.84	0.58
2:b:1027:ILE:HD12	2:b:1104:ARG:HD2	1.83	0.58
2:b:1463:ILE:HG13	2:b:1468:SER:HA	1.85	0.58
3:c:1151:MET:O	3:c:1155:ILE:HG12	2.03	0.58
3:c:1229:VAL:HG12	3:c:1230:VAL:N	2.17	0.58
3:c:1452:ILE:HB	3:c:1453:PRO:HD3	1.84	0.58
4:d:1182:SER:HB2	4:d:1187:LYS:HE2	1.85	0.58
5:e:1068:ARG:HD3	5:e:1514:CYS:HB3	1.85	0.58
5:e:1253:GLN:H	5:e:1254:MET:CB	2.16	0.58
7:g:1125:ILE:HG22	7:g:1129:TYR:CE2	2.38	0.58
8:h:1146:VAL:HG13	8:h:1147:VAL:H	1.68	0.58
8:h:1427:GLU:HG2	8:h:1459:VAL:HG21	1.85	0.58
1:i:1333:THR:HB	1:i:1357:LEU:H	1.67	0.58
6:n:1203:SER:C	6:n:1205:LYS:N	2.58	0.58
6:n:1233:VAL:HG12	6:n:1294:VAL:HG22	1.84	0.58
7:o:1125:ILE:HG22	7:o:1129:TYR:CE2	2.38	0.58
8:p:1162:MET:O	8:p:1165:PRO:HD2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:17:GLY:HA3	5:E:95:GLU:OE2	2.03	0.58
5:E:544:LEU:HD23	6:F:384:THR:CG2	2.33	0.58
6:F:33:LEU:HD21	6:F:63:LEU:HD21	1.85	0.58
7:G:189:LEU:O	7:G:189:LEU:CD1	2.50	0.58
1:I:158:ASN:CG	1:I:516:GLY:HA2	2.28	0.58
2:J:72:PRO:HB3	3:K:47:MET:HE1	1.84	0.58
2:J:463:ILE:HG13	2:J:468:SER:HA	1.85	0.58
3:K:151:MET:O	3:K:155:ILE:HG12	2.04	0.58
6:N:433:LYS:HG3	6:N:444:ILE:CG1	2.33	0.58
6:N:485:GLU:HG3	6:N:489:VAL:HB	1.85	0.58
7:O:455:GLU:CG	7:O:461:ALA:CB	2.81	0.58
8:P:94:ILE:HD12	8:P:95:ASP:N	2.18	0.58
1:a:1164:MET:O	1:a:1167:LYS:CB	2.51	0.58
4:d:1103:LEU:HD13	4:d:1515:VAL:HG21	1.85	0.58
6:f:1125:ALA:HA	6:f:1426:LEU:HD21	1.85	0.58
7:g:1109:MET:CG	7:g:1514:THR:CG2	2.79	0.58
7:g:1238:ASN:N	7:g:1239:PRO:CD	2.66	0.58
7:g:1484:GLU:CB	7:g:1485:THR:HA	2.32	0.58
1:i:1097:GLY:O	1:i:1101:VAL:HG23	2.02	0.58
3:k:1265:LYS:O	3:k:1268:ASP:OD1	2.21	0.58
4:l:1089:ALA:HB1	4:l:1503:VAL:HG22	1.85	0.58
4:l:1128:ALA:O	4:l:1132:VAL:HG23	2.03	0.58
8:p:1069:ALA:HB2	8:p:1100:THR:HB	1.85	0.58
6:F:5:LEU:CA	6:F:6:LEU:CB	2.66	0.58
6:F:280:LEU:HD13	6:F:343:LEU:HD21	1.85	0.58
1:I:55:ASP:HB2	1:I:59:ASP:HB2	1.85	0.58
2:J:213:ILE:H	2:J:213:ILE:HD12	1.67	0.58
5:M:240:ILE:HG12	5:M:244:ILE:CG2	2.32	0.58
6:N:201:HIS:CB	6:N:381:LYS:HE2	2.34	0.58
6:N:424:ARG:HA	6:N:424:ARG:NE	2.12	0.58
7:O:125:ILE:HG22	7:O:129:TYR:CE2	2.38	0.58
1:a:1333:THR:HG22	1:a:1377:THR:HG22	1.86	0.58
3:c:1084:THR:HG21	8:h:1389:ALA:HA	1.86	0.58
6:f:1033:LEU:HD21	6:f:1063:LEU:HD21	1.85	0.58
6:f:1233:VAL:HG12	6:f:1294:VAL:HG22	1.84	0.58
6:f:1540:THR:O	6:f:1541:LEU:HD23	2.03	0.58
1:i:1247:LEU:O	1:i:1298:THR:HA	2.04	0.58
2:j:1032:LEU:HG	6:n:1532:GLU:OE1	2.02	0.58
3:k:1151:MET:O	3:k:1155:ILE:HG12	2.04	0.58
3:k:1335:THR:HB	8:p:1237:LYS:HE2	1.85	0.58
3:k:1512:THR:HG23	8:p:1389:ALA:HB1	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:p:1054:ILE:HG13	8:p:1064:ILE:CG1	2.15	0.58
2:B:357:SER:CB	2:B:360:LYS:CB	2.69	0.58
2:B:422:ILE:CB	2:B:427:SER:CB	2.79	0.58
4:D:110:LEU:HD13	4:D:439:ILE:HD12	1.85	0.58
4:D:147:ARG:HG2	4:D:148:GLU:N	2.18	0.58
5:E:253:GLN:H	5:E:254:MET:CB	2.16	0.58
8:H:48:PRO:HA	8:H:169:SER:O	2.04	0.58
1:I:164:MET:O	1:I:167:LYS:CB	2.51	0.58
3:K:452:ILE:HB	3:K:453:PRO:HD3	1.85	0.58
4:L:298:ASN:HB3	4:L:299:ASP:HA	1.84	0.58
8:P:217:LEU:HA	8:P:387:ARG:O	2.03	0.58
8:P:222:VAL:HG22	8:P:384:ILE:HG23	1.86	0.58
1:a:1184:LEU:CD2	1:a:1184:LEU:C	2.76	0.58
1:a:1267:PRO:HB3	1:a:1268:GLU:C	2.28	0.58
5:e:1351:LEU:HD13	5:e:1351:LEU:H	1.67	0.58
8:h:1269:ASN:H	8:h:1272:GLU:HG3	1.66	0.58
4:l:1254:VAL:HG23	4:l:1254:VAL:O	2.02	0.58
5:m:1267:VAL:HA	5:m:1319:ASP:OD2	2.04	0.58
6:n:1201:HIS:CB	6:n:1381:LYS:HE2	2.34	0.58
1:A:333:THR:HG22	1:A:377:THR:HG22	1.86	0.58
3:C:452:ILE:HB	3:C:453:PRO:HD3	1.85	0.58
4:D:254:VAL:HG23	4:D:254:VAL:O	2.02	0.58
6:F:105:ALA:C	6:F:107:ARG:H	2.10	0.58
6:F:109:ILE:CG1	5:M:39:LYS:HZ3	2.13	0.58
7:G:126:MET:HE1	7:G:515:ASN:CA	2.33	0.58
7:G:218:VAL:HA	7:G:375:THR:HG21	1.86	0.58
8:H:69:ALA:HB2	8:H:100:THR:HB	1.85	0.58
1:I:267:PRO:HB3	1:I:268:GLU:C	2.28	0.58
2:J:373:THR:CG2	2:J:375:GLN:HG2	2.34	0.58
4:L:238:GLN:HB2	4:L:290:LYS:HE3	1.84	0.58
5:M:335:LEU:HD22	5:M:340:LEU:HD11	1.84	0.58
6:N:155:ARG:CB	6:N:171:THR:OG1	2.52	0.58
3:c:1265:LYS:O	3:c:1268:ASP:OD1	2.21	0.58
5:e:1267:VAL:HA	5:e:1319:ASP:OD2	2.04	0.58
5:e:1273:THR:HG22	5:e:1364:PRO:CA	2.20	0.58
6:f:1151:LEU:O	6:f:1171:THR:HG22	2.04	0.58
6:f:1201:HIS:CB	6:f:1381:LYS:HE2	2.34	0.58
8:h:1048:PRO:HA	8:h:1169:SER:O	2.03	0.58
1:i:1158:ASN:CG	1:i:1516:GLY:HA2	2.28	0.58
2:j:1373:THR:CG2	2:j:1375:GLN:HG2	2.34	0.58
2:j:1375:GLN:HE22	6:n:1075:LEU:HB2	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l:1104:LEU:HD11	4:l:1518:ILE:HD12	1.86	0.58
4:l:1238:GLN:HB2	4:l:1290:LYS:HE3	1.84	0.58
4:l:1298:ASN:HB3	4:l:1299:ASP:HA	1.84	0.58
5:m:1352:GLU:HA	6:n:1222:PRO:CG	2.33	0.58
6:n:1175:THR:O	6:n:1179:LEU:HG	2.04	0.58
7:o:1238:ASN:N	7:o:1239:PRO:CD	2.66	0.58
1:A:159:ILE:HD11	1:A:418:VAL:HG11	1.84	0.58
1:A:184:LEU:CD2	1:A:184:LEU:C	2.76	0.58
1:A:247:LEU:O	1:A:298:THR:HA	2.04	0.58
2:B:38:GLY:HA3	2:B:474:LEU:HD11	1.84	0.58
2:B:373:THR:CG2	2:B:375:GLN:HG2	2.34	0.58
2:B:407:ALA:O	2:B:410:VAL:HG12	2.03	0.58
2:B:463:ILE:O	2:B:467:ILE:CB	2.52	0.58
3:C:296:ILE:HG23	3:C:320:VAL:HG21	1.85	0.58
4:D:128:ALA:O	4:D:132:VAL:HG23	2.03	0.58
4:D:182:SER:HB2	4:D:187:LYS:HE2	1.85	0.58
4:D:521:ILE:HG12	7:G:62:ILE:HD11	1.86	0.58
6:F:32:VAL:HB	6:F:33:LEU:HD22	1.86	0.58
6:F:201:HIS:HB3	6:F:381:LYS:HE2	1.85	0.58
6:F:201:HIS:CB	6:F:381:LYS:HE2	2.34	0.58
6:F:203:SER:C	6:F:205:LYS:N	2.58	0.58
7:G:125:ILE:HG22	7:G:129:TYR:CE2	2.38	0.58
8:H:427:GLU:HG2	8:H:459:VAL:HG21	1.85	0.58
2:J:32:LEU:HG	6:N:532:GLU:OE1	2.04	0.58
5:M:323:CYS:O	5:M:344:ARG:HA	2.02	0.58
6:N:57:LYS:O	6:N:57:LYS:HG2	2.03	0.58
6:N:105:ALA:C	6:N:107:ARG:H	2.10	0.58
3:c:1255:GLY:N	3:c:1259:THR:HG21	2.18	0.58
4:d:1305:LEU:HD21	4:d:1312:VAL:HG21	1.85	0.58
4:d:1379:ILE:H	4:d:1379:ILE:HD12	1.68	0.58
6:f:1155:ARG:CB	6:f:1171:THR:OG1	2.52	0.58
2:j:1285:ILE:HD13	2:j:1285:ILE:N	2.19	0.58
3:k:1255:GLY:N	3:k:1259:THR:HG21	2.18	0.58
4:l:1305:LEU:HD21	4:l:1312:VAL:HG21	1.85	0.58
6:n:1343:LEU:HG	6:n:1344:SER:HB3	1.85	0.58
8:p:1217:LEU:HA	8:p:1387:ARG:O	2.03	0.58
8:p:1459:VAL:O	8:p:1463:LEU:HD23	2.02	0.58
1:A:463:ALA:HB1	1:A:470:SER:HB2	1.86	0.58
2:B:159:THR:HG21	2:B:488:VAL:H	1.69	0.58
2:B:285:ILE:HD13	2:B:285:ILE:N	2.19	0.58
4:D:104:LEU:HD11	4:D:518:ILE:HD12	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:171:ALA:HB3	4:D:172:PRO:HD3	1.86	0.58
4:D:210:ILE:O	4:D:375:VAL:HG12	2.02	0.58
6:F:66:MET:HE3	6:F:67:GLN:H	1.68	0.58
6:F:125:ALA:HA	6:F:426:LEU:HD21	1.85	0.58
6:F:401:ALA:O	6:F:405:VAL:HG23	2.04	0.58
6:F:541:LEU:HB2	6:F:542:LYS:CB	2.32	0.58
7:G:376:LEU:HD23	7:G:376:LEU:H	1.69	0.58
2:J:200:GLY:O	2:J:371:GLY:N	2.28	0.58
5:M:253:GLN:H	5:M:254:MET:CB	2.16	0.58
5:M:448:VAL:HG21	5:M:498:LEU:HD13	1.86	0.58
6:N:33:LEU:HD21	6:N:63:LEU:HD21	1.85	0.58
6:N:56:THR:HG22	6:N:390:GLN:HB2	1.86	0.58
6:N:175:THR:O	6:N:179:LEU:HG	2.04	0.58
6:N:343:LEU:HG	6:N:344:SER:HB3	1.85	0.58
7:O:126:MET:HE1	7:O:515:ASN:CA	2.33	0.58
7:O:208:ALA:HB3	7:O:211:GLU:HG3	1.84	0.58
7:O:376:LEU:HD23	7:O:376:LEU:H	1.69	0.58
1:a:1548:ASP:OD2	1:a:1548:ASP:N	2.37	0.58
2:b:1242:LYS:HD3	3:c:1269:TRP:CZ2	2.38	0.58
2:b:1285:ILE:HD13	2:b:1285:ILE:N	2.19	0.58
4:d:1521:ILE:CG2	7:g:1052:LEU:H	2.16	0.58
6:f:1175:THR:O	6:f:1179:LEU:HG	2.04	0.58
6:f:1433:LYS:HG3	6:f:1444:ILE:CG1	2.33	0.58
6:f:1447:PHE:CD2	6:f:1451:LEU:HD11	2.39	0.58
1:i:1463:ALA:HB1	1:i:1470:SER:HB2	1.86	0.58
2:j:1213:ILE:H	2:j:1213:ILE:HD12	1.67	0.58
4:l:1012:LYS:HZ2	7:o:1073:LEU:CD2	2.17	0.58
4:l:1521:ILE:CG2	7:o:1052:LEU:H	2.15	0.58
6:n:1033:LEU:HD21	6:n:1063:LEU:HD21	1.85	0.58
6:n:1061:VAL:HG12	6:n:1062:LEU:HD23	1.84	0.58
7:o:1401:LYS:HG3	7:o:1402:ARG:N	2.17	0.58
3:C:514:ILE:HA	3:C:517:ALA:HB3	1.86	0.58
4:D:258:ARG:HD2	8:H:283:GLN:NE2	2.19	0.58
6:F:151:LEU:O	6:F:171:THR:HG22	2.04	0.58
6:F:155:ARG:CB	6:F:171:THR:OG1	2.52	0.58
7:G:401:LYS:HG3	7:G:402:ARG:N	2.17	0.58
8:H:68:ALA:H	8:H:101:ASN:HD21	1.49	0.58
1:I:247:LEU:O	1:I:298:THR:HA	2.04	0.58
4:L:77:MET:HE1	7:O:384:GLN:HB2	1.84	0.58
5:M:350:GLU:O	5:M:351:LEU:C	2.46	0.58
8:P:288:MET:CE	8:P:313:LEU:HG	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1247:LEU:O	1:a:1298:THR:HA	2.04	0.58
3:c:1250:LEU:CG	3:c:1301:VAL:HG21	2.24	0.58
5:e:1350:GLU:O	5:e:1351:LEU:C	2.46	0.58
5:e:1448:VAL:HG21	5:e:1498:LEU:HD13	1.86	0.58
6:f:1117:ILE:HG12	5:m:1033:LYS:HE2	1.86	0.58
7:g:1208:ALA:HB3	7:g:1211:GLU:HG3	1.84	0.58
7:g:1393:LEU:HD22	7:g:1397:ILE:HG13	1.85	0.58
8:h:1069:ALA:HB2	8:h:1100:THR:HB	1.85	0.58
8:h:1162:MET:HE1	8:h:1411:LEU:CB	2.34	0.58
1:i:1164:MET:O	1:i:1167:LYS:CB	2.51	0.58
1:i:1184:LEU:CD2	1:i:1198:TYR:CG	2.69	0.58
1:i:1548:ASP:OD2	1:i:1548:ASP:N	2.37	0.58
4:l:1171:ALA:HB3	4:l:1172:PRO:HD3	1.86	0.58
1:A:209:HIS:HE1	7:G:89:ALA:HB2	1.69	0.58
2:B:42:MET:HE3	6:F:529:LEU:O	2.03	0.58
4:D:89:ALA:HB1	4:D:503:VAL:HG22	1.85	0.58
4:D:215:LEU:HB3	4:D:217:GLN:HG2	1.86	0.58
5:E:273:THR:HG21	5:E:364:PRO:HA	1.78	0.58
6:F:343:LEU:HG	6:F:344:SER:HB3	1.85	0.58
6:F:540:THR:O	6:F:541:LEU:HD23	2.03	0.58
1:I:93:GLU:CA	1:I:94:ILE:HD12	2.34	0.58
1:I:333:THR:HG22	1:I:377:THR:HG22	1.86	0.58
2:J:72:PRO:CG	3:K:47:MET:HE1	2.34	0.58
3:K:296:ILE:HG23	3:K:320:VAL:HG21	1.85	0.58
4:L:16:LYS:O	4:L:20:VAL:HG23	2.04	0.58
6:N:125:ALA:HA	6:N:426:LEU:HD21	1.86	0.58
6:N:415:ALA:CB	6:N:506:ILE:HG21	2.30	0.58
6:N:447:PHE:CE2	6:N:451:LEU:HD11	2.39	0.58
7:O:218:VAL:HA	7:O:375:THR:HG21	1.86	0.58
2:b:1072:PRO:HB3	3:c:1047:MET:HE1	1.86	0.58
2:b:1088:VAL:HA	2:b:1393:GLN:NE2	2.18	0.58
3:c:1296:ILE:HG23	3:c:1320:VAL:HG21	1.85	0.58
3:c:1514:ILE:HA	3:c:1517:ALA:HB3	1.86	0.58
6:f:1343:LEU:HG	6:f:1344:SER:HB3	1.85	0.58
3:k:1514:ILE:HA	3:k:1517:ALA:HB3	1.86	0.58
6:n:1170:LEU:HA	6:n:1173:ILE:HG22	1.84	0.58
6:n:1415:ALA:CB	6:n:1506:ILE:HG21	2.30	0.58
1:A:55:ASP:HB2	1:A:59:ASP:HB2	1.85	0.58
1:A:158:ASN:CG	1:A:516:GLY:HA2	2.28	0.58
2:B:88:VAL:HA	2:B:393:GLN:NE2	2.19	0.58
3:C:255:GLY:N	3:C:259:THR:HG21	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:291:SER:HA	4:D:315:ASP:HA	1.86	0.58
6:F:193:MET:HE3	6:F:330:LEU:CD1	2.29	0.58
7:G:484:GLU:CB	7:G:485:THR:HA	2.32	0.58
8:H:138:THR:HG22	8:H:434:ILE:CD1	2.34	0.58
8:H:222:VAL:HG22	8:H:384:ILE:HG23	1.86	0.58
4:L:65:LEU:HD13	4:L:79:VAL:HG13	1.85	0.58
4:L:182:SER:HB2	4:L:187:LYS:HE2	1.85	0.58
4:L:521:ILE:HG23	7:O:51:ILE:CA	2.32	0.58
6:N:32:VAL:HB	6:N:33:LEU:HD22	1.86	0.58
6:N:401:ALA:O	6:N:405:VAL:HG23	2.04	0.58
6:N:411:ILE:CG2	6:N:412:ILE:H	2.16	0.58
8:P:69:ALA:HB2	8:P:100:THR:HB	1.85	0.58
8:P:138:THR:HG22	8:P:434:ILE:CD1	2.34	0.58
2:b:1373:THR:CG2	2:b:1375:GLN:HG2	2.33	0.58
6:f:1058:ASP:O	6:f:1062:LEU:HG	2.04	0.58
6:f:1066:MET:HE3	6:f:1067:GLN:H	1.68	0.58
6:f:1105:ALA:C	6:f:1107:ARG:H	2.10	0.58
6:f:1401:ALA:O	6:f:1405:VAL:HG23	2.04	0.58
7:g:1083:LEU:O	7:g:1086:ILE:HG13	2.04	0.58
7:g:1516:LEU:CD2	7:g:1516:LEU:O	2.46	0.58
8:h:1217:LEU:HA	8:h:1387:ARG:O	2.03	0.58
8:h:1243:LYS:C	8:h:1244:LYS:CG	2.77	0.58
6:n:1058:ASP:O	6:n:1062:LEU:HG	2.04	0.58
6:n:1155:ARG:CB	6:n:1171:THR:OG1	2.52	0.58
7:o:1455:GLU:CG	7:o:1461:ALA:CB	2.81	0.58
8:p:1222:VAL:HG22	8:p:1384:ILE:HG23	1.86	0.58
1:A:93:GLU:CA	1:A:94:ILE:HD12	2.34	0.57
2:B:250:PHE:HA	6:F:250:GLY:O	2.04	0.57
2:B:375:GLN:NE2	6:F:75:LEU:HD12	2.19	0.57
8:H:146:VAL:HG13	8:H:147:VAL:H	1.68	0.57
2:J:285:ILE:HD13	2:J:285:ILE:N	2.19	0.57
2:J:407:ALA:O	2:J:410:VAL:HG12	2.03	0.57
3:K:265:LYS:O	3:K:268:ASP:OD1	2.21	0.57
4:L:103:LEU:HD13	4:L:515:VAL:HG21	1.85	0.57
4:L:110:LEU:HD13	4:L:439:ILE:HD12	1.84	0.57
4:L:379:ILE:H	4:L:379:ILE:HD12	1.68	0.57
5:M:68:ARG:HD3	5:M:514:CYS:HB3	1.85	0.57
5:M:350:GLU:C	5:M:352:GLU:H	2.11	0.57
6:N:143:LEU:HD11	6:N:145:ASN:CG	2.29	0.57
6:N:451:LEU:H	6:N:451:LEU:HD12	1.69	0.57
7:O:238:ASN:N	7:O:239:PRO:CD	2.66	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:48:PRO:HA	8:P:169:SER:O	2.04	0.57
8:P:68:ALA:H	8:P:101:ASN:HD21	1.49	0.57
1:a:1350:PHE:CE2	1:a:1354:TYR:CB	2.85	0.57
1:a:1463:ALA:HB1	1:a:1470:SER:HB2	1.86	0.57
2:b:1263:LYS:HB3	2:b:1267:GLU:OE2	2.04	0.57
4:d:1128:ALA:O	4:d:1132:VAL:HG23	2.03	0.57
6:f:1016:ASP:CA	6:f:1019:LEU:HD12	2.28	0.57
6:f:1151:LEU:CG	6:f:1175:THR:HG23	2.31	0.57
6:f:1201:HIS:HB3	6:f:1381:LYS:HE2	1.85	0.57
6:f:1447:PHE:CE2	6:f:1451:LEU:HD11	2.39	0.57
7:g:1126:MET:HE1	7:g:1515:ASN:CA	2.33	0.57
1:i:1092:ARG:HB3	5:m:1388:THR:HA	1.84	0.57
1:i:1159:ILE:HD11	1:i:1418:VAL:HG11	1.84	0.57
3:k:1084:THR:HG21	8:p:1389:ALA:HA	1.85	0.57
4:l:1182:SER:HB2	4:l:1187:LYS:HE2	1.85	0.57
4:l:1291:SER:HA	4:l:1315:ASP:HA	1.86	0.57
5:m:1350:GLU:O	5:m:1351:LEU:C	2.46	0.57
6:n:1066:MET:HE3	6:n:1067:GLN:H	1.68	0.57
6:n:1151:LEU:O	6:n:1171:THR:HG22	2.04	0.57
7:o:1494:LYS:O	7:o:1495:PHE:CB	2.52	0.57
2:B:30:GLY:O	2:B:33:VAL:HG23	2.04	0.57
4:D:171:ALA:O	4:D:175:VAL:HG22	2.04	0.57
7:G:393:LEU:HD22	7:G:397:ILE:HG13	1.85	0.57
1:I:350:PHE:CE2	1:I:354:TYR:CB	2.85	0.57
3:K:255:GLY:N	3:K:259:THR:HG21	2.18	0.57
4:L:305:LEU:HD21	4:L:312:VAL:HG21	1.85	0.57
6:N:66:MET:HE3	6:N:67:GLN:H	1.68	0.57
6:N:221:HIS:HD2	6:N:224:MET:SD	2.27	0.57
7:O:516:LEU:HD13	7:O:517:ILE:N	2.20	0.57
1:a:1033:THR:OG1	1:a:1083:LEU:HD11	2.05	0.57
4:d:1069:ALA:O	8:h:1015:LYS:HE2	2.05	0.57
5:e:1350:GLU:C	5:e:1352:GLU:H	2.11	0.57
6:f:1170:LEU:HA	6:f:1173:ILE:HG22	1.84	0.57
1:i:1055:ASP:HB2	1:i:1059:ASP:HB2	1.85	0.57
4:l:1103:LEU:HD13	4:l:1515:VAL:HG21	1.85	0.57
6:n:1231:ALA:HB1	6:n:1293:PHE:N	2.18	0.57
6:n:1447:PHE:CE2	6:n:1451:LEU:HD11	2.39	0.57
7:o:1376:LEU:HD23	7:o:1376:LEU:H	1.69	0.57
8:p:1138:THR:HG22	8:p:1434:ILE:CD1	2.34	0.57
8:p:1427:GLU:HG2	8:p:1459:VAL:HG21	1.85	0.57
1:A:433:LEU:O	1:A:437:ALA:HB3	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:263:LYS:HB3	2:B:267:GLU:OE2	2.04	0.57
2:B:295:GLU:HB2	6:F:337:GLN:CD	2.29	0.57
4:D:16:LYS:O	4:D:20:VAL:HG23	2.04	0.57
4:D:65:LEU:HD13	4:D:79:VAL:HG13	1.85	0.57
4:D:305:LEU:HD21	4:D:312:VAL:HG21	1.85	0.57
6:F:175:THR:O	6:F:179:LEU:HG	2.04	0.57
6:F:221:HIS:HD2	6:F:224:MET:SD	2.27	0.57
6:F:447:PHE:CD2	6:F:451:LEU:HD11	2.39	0.57
6:F:451:LEU:H	6:F:451:LEU:HD12	1.69	0.57
7:G:294:LEU:HD23	7:G:315:ALA:HB3	1.87	0.57
2:J:30:GLY:O	2:J:33:VAL:HG23	2.04	0.57
2:J:142:ASN:CB	2:J:143:SER:HA	2.18	0.57
3:K:279:GLN:O	3:K:283:MET:HG2	2.05	0.57
4:L:147:ARG:HG2	4:L:148:GLU:N	2.18	0.57
4:L:171:ALA:HB3	4:L:172:PRO:HD3	1.86	0.57
5:M:267:VAL:HA	5:M:319:ASP:OD2	2.04	0.57
5:M:273:THR:HG22	5:M:364:PRO:CA	2.20	0.57
6:N:167:THR:CA	6:N:168:GLU:HB3	2.35	0.57
6:N:231:ALA:HB1	6:N:293:PHE:N	2.18	0.57
8:P:243:LYS:C	8:P:244:LYS:CG	2.77	0.57
2:b:1004:GLN:C	2:b:1005:ILE:CG2	2.73	0.57
4:d:1110:LEU:HD13	4:d:1439:ILE:HD12	1.85	0.57
4:d:1120:ILE:HA	4:d:1123:SER:HB3	1.87	0.57
6:f:1043:LEU:CD2	6:f:1057:LYS:CB	2.78	0.57
6:f:1108:PHE:O	6:f:1113:VAL:HG23	2.04	0.57
6:f:1167:THR:HG21	6:f:1169:VAL:HG23	1.86	0.57
1:i:1093:GLU:CA	1:i:1094:ILE:HD12	2.34	0.57
1:i:1333:THR:HG22	1:i:1377:THR:HG22	1.85	0.57
4:l:1044:MET:HE3	8:p:1531:ALA:HB2	1.86	0.57
6:n:1143:LEU:HD11	6:n:1145:ASN:CG	2.29	0.57
6:n:1541:LEU:HB2	6:n:1542:LYS:HA	0.59	0.57
8:p:1204:VAL:CG2	8:p:1409:LYS:CB	2.82	0.57
8:p:1243:LYS:C	8:p:1244:LYS:CG	2.77	0.57
1:A:418:VAL:HG12	1:A:419:VAL:N	2.17	0.57
2:B:373:THR:HG22	2:B:376:THR:N	2.20	0.57
2:B:463:ILE:HG13	2:B:468:SER:HA	1.85	0.57
3:C:402:VAL:HG13	3:C:502:PRO:HG2	1.86	0.57
6:F:167:THR:HG21	6:F:169:VAL:HG23	1.86	0.57
7:G:83:LEU:O	7:G:86:ILE:HG13	2.04	0.57
7:G:282:LEU:O	7:G:285:VAL:HG12	2.05	0.57
7:G:455:GLU:CG	7:G:461:ALA:CB	2.81	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:516:LEU:HD13	7:G:517:ILE:N	2.20	0.57
1:I:90:GLN:HG3	1:I:101:VAL:CG2	2.19	0.57
1:I:184:LEU:CD2	1:I:184:LEU:C	2.76	0.57
2:J:116:HIS:HE1	2:J:118:GLN:CB	2.18	0.57
2:J:164:LYS:O	2:J:165:ILE:C	2.48	0.57
9:L:601:ADP:H5'2	9:L:601:ADP:O3B	2.04	0.57
5:M:241:ASN:O	5:M:241:ASN:ND2	2.34	0.57
6:N:170:LEU:HA	6:N:173:ILE:HG22	1.84	0.57
7:O:83:LEU:O	7:O:86:ILE:HG13	2.04	0.57
1:a:1055:ASP:HB2	1:a:1059:ASP:HB2	1.85	0.57
2:b:1049:ALA:HB1	6:f:1538:ARG:HB2	1.87	0.57
4:d:1336:ILE:HG23	4:d:1339:PHE:HB3	1.85	0.57
6:f:1221:HIS:HD2	6:f:1224:MET:SD	2.27	0.57
6:f:1352:GLY:CA	6:f:1369:GLU:C	2.48	0.57
7:g:1516:LEU:HD13	7:g:1517:ILE:N	2.20	0.57
2:j:1088:VAL:HA	2:j:1393:GLN:NE2	2.18	0.57
4:l:1016:LYS:O	4:l:1020:VAL:HG23	2.04	0.57
4:l:1171:ALA:O	4:l:1175:VAL:HG22	2.05	0.57
5:m:1281:PRO:HD2	5:m:1285:HIS:HB3	1.84	0.57
5:m:1448:VAL:HG21	5:m:1498:LEU:HD13	1.86	0.57
3:C:9:ASN:HD22	3:C:10:ALA:H	1.53	0.57
4:D:298:ASN:HB3	4:D:299:ASP:HA	1.84	0.57
6:F:231:ALA:HB1	6:F:293:PHE:N	2.18	0.57
2:J:373:THR:HG22	2:J:376:THR:N	2.20	0.57
3:K:353:GLY:H	3:K:370:ASN:HB3	1.70	0.57
4:L:89:ALA:HB1	4:L:503:VAL:HG22	1.85	0.57
4:L:171:ALA:O	4:L:175:VAL:HG22	2.05	0.57
6:N:151:LEU:O	6:N:171:THR:HG22	2.04	0.57
6:N:447:PHE:CD2	6:N:451:LEU:HD11	2.39	0.57
1:a:1093:GLU:CA	1:a:1094:ILE:HD12	2.34	0.57
3:c:1482:THR:HA	3:c:1493:ASP:HA	1.87	0.57
6:f:1167:THR:HB	6:f:1169:VAL:H	1.66	0.57
8:h:1138:THR:HG22	8:h:1434:ILE:CD1	2.34	0.57
3:k:1057:LEU:N	3:k:1057:LEU:CD2	2.57	0.57
3:k:1321:LYS:HB3	3:k:1324:ASP:HB2	1.87	0.57
3:k:1414:PRO:O	3:k:1418:ALA:HB3	2.03	0.57
3:k:1456:LEU:HD21	9:k:2101:ADP:C5'	2.30	0.57
5:m:1350:GLU:C	5:m:1352:GLU:H	2.12	0.57
6:n:1108:PHE:O	6:n:1113:VAL:HG23	2.04	0.57
6:n:1201:HIS:HB3	6:n:1381:LYS:HZ3	1.68	0.57
6:n:1401:ALA:O	6:n:1405:VAL:HG23	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:n:1540:THR:O	6:n:1542:LYS:CG	2.44	0.57
7:o:1083:LEU:O	7:o:1086:ILE:HG13	2.04	0.57
7:o:1126:MET:HE1	7:o:1515:ASN:CA	2.33	0.57
7:o:1189:LEU:O	7:o:1189:LEU:CD1	2.50	0.57
1:A:182:ASP:O	1:A:186:ALA:HB3	2.05	0.57
3:C:113:GLU:HB2	1:I:460:LYS:HD2	1.86	0.57
6:F:58:ASP:O	6:F:62:LEU:HG	2.04	0.57
6:F:167:THR:CA	6:F:168:GLU:HB3	2.34	0.57
8:H:243:LYS:C	8:H:244:LYS:CG	2.77	0.57
8:H:486:GLU:H	8:H:487:PRO:HA	1.69	0.57
2:J:68:PRO:HG2	6:N:536:ALA:HB2	1.86	0.57
2:J:206:SER:CB	2:J:368:VAL:HG13	2.34	0.57
8:P:162:MET:HE1	8:P:411:LEU:CB	2.34	0.57
1:a:1264:ILE:O	1:a:1265:ASP:HB3	2.05	0.57
2:b:1030:GLY:O	2:b:1033:VAL:HG23	2.04	0.57
2:b:1116:HIS:HE1	2:b:1118:GLN:CB	2.18	0.57
2:b:1159:THR:HG21	2:b:1488:VAL:H	1.69	0.57
2:b:1373:THR:HG22	2:b:1376:THR:N	2.20	0.57
3:c:1279:GLN:O	3:c:1283:MET:HG2	2.05	0.57
4:d:1171:ALA:O	4:d:1175:VAL:HG22	2.04	0.57
6:f:1167:THR:CA	6:f:1168:GLU:HB3	2.34	0.57
7:g:1189:LEU:O	7:g:1189:LEU:CD1	2.50	0.57
2:j:1463:ILE:HG13	2:j:1468:SER:HA	1.85	0.57
3:k:1149:ALA:O	3:k:1153:LYS:HG2	2.05	0.57
3:k:1279:GLN:O	3:k:1283:MET:HG2	2.05	0.57
4:l:1120:ILE:HA	4:l:1123:SER:HB3	1.87	0.57
5:m:1055:ARG:HH21	5:m:1134:LEU:HD13	1.67	0.57
6:n:1056:THR:O	6:n:1062:LEU:HD21	2.05	0.57
6:n:1221:HIS:HD2	6:n:1224:MET:SD	2.27	0.57
6:n:1433:LYS:HG3	6:n:1444:ILE:CG1	2.33	0.57
7:o:1282:LEU:O	7:o:1285:VAL:HG12	2.05	0.57
7:o:1516:LEU:HD13	7:o:1517:ILE:N	2.20	0.57
8:p:1162:MET:HE1	8:p:1411:LEU:CB	2.34	0.57
6:F:56:THR:HG22	6:F:390:GLN:HB2	1.86	0.57
7:G:51:ILE:HG22	7:G:53:ILE:HG23	1.87	0.57
7:G:516:LEU:CD2	7:G:516:LEU:O	2.46	0.57
8:H:204:VAL:CG2	8:H:409:LYS:CB	2.82	0.57
1:I:329:ILE:HD13	1:I:374:ILE:HD12	1.87	0.57
2:J:88:VAL:HA	2:J:393:GLN:NE2	2.19	0.57
4:L:41:PRO:HG2	9:L:601:ADP:C6	2.40	0.57
4:L:215:LEU:HB3	4:L:217:GLN:HG2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:291:SER:HA	4:L:315:ASP:HA	1.86	0.57
5:M:352:GLU:HA	6:N:222:PRO:HG3	1.86	0.57
6:N:108:PHE:O	6:N:113:VAL:HG23	2.04	0.57
7:O:393:LEU:HD22	7:O:397:ILE:HG13	1.85	0.57
7:O:494:LYS:O	7:O:495:PHE:CB	2.52	0.57
1:a:1329:ILE:HD13	1:a:1374:ILE:HD12	1.87	0.57
2:b:1200:GLY:O	2:b:1371:GLY:N	2.28	0.57
4:d:1177:SER:O	4:d:1181:ILE:HG12	2.05	0.57
8:h:1204:VAL:CG2	8:h:1409:LYS:CB	2.82	0.57
8:h:1222:VAL:HG22	8:h:1384:ILE:HG23	1.86	0.57
1:i:1182:ASP:O	1:i:1186:ALA:HB3	2.05	0.57
1:i:1252:GLN:HG3	1:i:1253:LYS:N	2.20	0.57
2:j:1164:LYS:O	2:j:1165:ILE:C	2.48	0.57
4:l:1177:SER:O	4:l:1181:ILE:HG12	2.05	0.57
6:n:1125:ALA:HA	6:n:1426:LEU:HD21	1.85	0.57
6:n:1447:PHE:CD2	6:n:1451:LEU:HD11	2.39	0.57
6:n:1485:GLU:O	6:n:1488:TYR:CB	2.52	0.57
2:B:43:ASP:O	6:F:530:CYS:HA	2.04	0.57
4:D:120:ILE:HA	4:D:123:SER:HB3	1.87	0.57
5:E:448:VAL:HG21	5:E:498:LEU:HD13	1.86	0.57
6:F:108:PHE:O	6:F:113:VAL:HG23	2.04	0.57
8:H:146:VAL:C	8:H:148:GLY:H	2.10	0.57
8:H:162:MET:HE1	8:H:411:LEU:CB	2.34	0.57
1:I:433:LEU:O	1:I:437:ALA:HB3	2.05	0.57
2:J:141:ASP:CG	2:J:142:ASN:H	2.13	0.57
6:N:167:THR:HG21	6:N:169:VAL:HG23	1.86	0.57
6:N:280:LEU:HD13	6:N:343:LEU:HD21	1.85	0.57
6:N:485:GLU:O	6:N:488:TYR:CB	2.52	0.57
7:O:294:LEU:HD23	7:O:315:ALA:HB3	1.86	0.57
1:a:1433:LEU:O	1:a:1437:ALA:HB3	2.05	0.57
6:f:1045:MET:HA	6:f:1054:LYS:O	2.05	0.57
6:f:1117:ILE:HD12	5:m:1034:ASP:O	2.05	0.57
6:f:1451:LEU:H	6:f:1451:LEU:HD12	1.69	0.57
7:g:1376:LEU:HD23	7:g:1376:LEU:H	1.69	0.57
7:g:1494:LYS:O	7:g:1495:PHE:CB	2.52	0.57
2:j:1030:GLY:O	2:j:1033:VAL:HG23	2.04	0.57
2:j:1263:LYS:HB3	2:j:1267:GLU:OE2	2.04	0.57
2:j:1463:ILE:O	2:j:1467:ILE:CB	2.52	0.57
6:n:1053:ILE:C	6:n:1053:ILE:CD1	2.62	0.57
6:n:1411:ILE:CG2	6:n:1412:ILE:H	2.16	0.57
6:n:1451:LEU:H	6:n:1451:LEU:HD12	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1218:VAL:HA	7:o:1375:THR:HG21	1.86	0.57
8:p:1048:PRO:HA	8:p:1169:SER:O	2.04	0.57
1:A:264:ILE:O	1:A:265:ASP:HB3	2.05	0.57
6:F:143:LEU:HD11	6:F:145:ASN:CG	2.29	0.57
1:I:33:THR:OG1	1:I:83:LEU:HD11	2.05	0.57
2:J:263:LYS:HB3	2:J:267:GLU:OE2	2.04	0.57
3:K:355:PHE:HB2	3:K:368:LEU:HD13	1.87	0.57
4:L:110:LEU:HD13	4:L:439:ILE:HG23	1.87	0.57
5:M:255:PRO:HG3	5:M:336:LEU:HA	1.87	0.57
6:N:203:SER:C	6:N:205:LYS:N	2.58	0.57
8:P:54:ILE:HG13	8:P:64:ILE:CG1	2.15	0.57
4:d:1215:LEU:HB3	4:d:1217:GLN:HG2	1.86	0.57
4:d:1524:ILE:HG23	7:g:1052:LEU:O	2.05	0.57
6:f:1143:LEU:HD11	6:f:1145:ASN:CG	2.29	0.57
7:g:1109:MET:SD	7:g:1514:THR:HB	2.45	0.57
7:g:1218:VAL:HA	7:g:1375:THR:HG21	1.86	0.57
8:h:1486:GLU:H	8:h:1487:PRO:HA	1.69	0.57
2:j:1047:GLN:OE1	2:j:1054:CYS:HB3	2.05	0.57
2:j:1213:ILE:HG23	2:j:1354:LEU:CD2	2.35	0.57
3:k:1355:PHE:HB2	3:k:1368:LEU:HD13	1.87	0.57
4:l:1110:LEU:HD13	4:l:1439:ILE:HG23	1.87	0.57
4:l:1209:MET:HA	4:l:1377:VAL:HG12	1.86	0.57
4:l:1411:ILE:HG13	4:l:1501:VAL:HG22	1.87	0.57
5:m:1074:LEU:CG	5:m:1093:GLN:HB3	2.35	0.57
6:n:1043:LEU:HD22	6:n:1057:LYS:HB2	1.84	0.57
6:n:1154:ALA:HB2	6:n:1402:VAL:HG22	1.87	0.57
6:n:1215:LEU:HB3	6:n:1217:HIS:CD2	2.36	0.57
1:A:252:GLN:HG3	1:A:253:LYS:N	2.20	0.57
4:D:12:LYS:HZ2	7:G:73:LEU:HD22	1.69	0.57
5:E:68:ARG:HD3	5:E:514:CYS:HB3	1.85	0.57
5:E:267:VAL:HA	5:E:319:ASP:OD2	2.04	0.57
6:F:6:LEU:CD1	6:F:7:ASN:H	2.18	0.57
6:F:38:GLY:N	9:F:601:ADP:H5'1	2.15	0.57
1:I:183:ALA:HB1	1:I:383:SER:HB2	1.87	0.57
2:J:91:GLY:HA2	9:J:601:ADP:O2A	2.05	0.57
2:J:463:ILE:O	2:J:467:ILE:CB	2.52	0.57
3:K:223:VAL:HG12	3:K:224:LEU:N	2.20	0.57
3:K:402:VAL:HG13	3:K:502:PRO:HG2	1.86	0.57
4:L:177:SER:O	4:L:181:ILE:HG12	2.05	0.57
6:N:45:MET:HA	6:N:54:LYS:O	2.05	0.57
6:N:56:THR:O	6:N:62:LEU:HD21	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:58:ASP:O	6:N:62:LEU:HG	2.04	0.57
3:c:1223:VAL:HG12	3:c:1224:LEU:N	2.20	0.57
1:i:1266:ASP:N	1:i:1267:PRO:CD	2.68	0.57
3:k:1402:VAL:HG13	3:k:1502:PRO:HG2	1.86	0.57
3:k:1524:ASP:HB2	8:p:1051:ARG:CB	2.35	0.57
4:l:1215:LEU:HB3	4:l:1217:GLN:HG2	1.86	0.57
6:n:1047:VAL:HG12	6:n:1048:ASP:H	1.70	0.57
6:n:1056:THR:HG22	6:n:1390:GLN:HB2	1.86	0.57
6:n:1424:ARG:HA	6:n:1424:ARG:NE	2.12	0.57
7:o:1516:LEU:CD2	7:o:1516:LEU:O	2.46	0.57
1:A:33:THR:OG1	1:A:83:LEU:HD11	2.05	0.56
2:B:245:ILE:O	2:B:246:PHE:HD2	1.87	0.56
3:C:353:GLY:H	3:C:370:ASN:HB3	1.70	0.56
6:F:447:PHE:CE2	6:F:451:LEU:HD11	2.39	0.56
6:F:452:LEU:O	6:F:455:PRO:CD	2.51	0.56
2:J:159:THR:HG21	2:J:488:VAL:H	1.69	0.56
8:P:300:VAL:HG13	8:P:321:LEU:HB3	1.87	0.56
2:b:1213:ILE:HG23	2:b:1354:LEU:CD2	2.35	0.56
3:c:1250:LEU:CG	3:c:1301:VAL:HG23	2.13	0.56
6:f:1029:LEU:O	6:f:1033:LEU:HD23	2.05	0.56
6:f:1032:VAL:HB	6:f:1033:LEU:HD22	1.86	0.56
6:f:1485:GLU:O	6:f:1488:TYR:CB	2.52	0.56
7:g:1282:LEU:O	7:g:1285:VAL:HG12	2.05	0.56
1:i:1329:ILE:HD13	1:i:1374:ILE:HD12	1.87	0.56
1:i:1345:GLU:CD	1:i:1346:GLY:HA2	2.30	0.56
2:j:1043:ASP:O	6:n:1530:CYS:HA	2.04	0.56
2:j:1116:HIS:HE1	2:j:1118:GLN:CB	2.18	0.56
2:j:1373:THR:HG22	2:j:1376:THR:N	2.20	0.56
6:n:1057:LYS:HG2	6:n:1057:LYS:O	2.03	0.56
1:A:548:ASP:OD2	1:A:548:ASP:N	2.37	0.56
2:B:230:LYS:H	2:B:281:ILE:CG2	2.18	0.56
4:D:36:ARG:HE	4:D:98:ILE:CG2	2.18	0.56
5:E:32:VAL:HG22	5:E:33:LYS:N	2.14	0.56
6:F:29:LEU:O	6:F:33:LEU:HD23	2.05	0.56
7:G:43:THR:CG2	7:G:64:ASN:CB	2.83	0.56
1:I:252:GLN:HG3	1:I:253:LYS:N	2.20	0.56
2:J:213:ILE:HG23	2:J:354:LEU:CD2	2.35	0.56
2:J:371:GLY:O	2:J:372:ALA:C	2.49	0.56
5:M:74:LEU:CG	5:M:93:GLN:HB3	2.35	0.56
5:M:352:GLU:HA	6:N:222:PRO:CG	2.35	0.56
6:N:193:MET:HE3	6:N:330:LEU:CD1	2.29	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:428:SER:O	6:N:431:MET:HG2	2.06	0.56
1:a:1266:ASP:N	1:a:1267:PRO:CD	2.68	0.56
3:c:1118:PRO:O	3:c:1122:ILE:HG13	2.05	0.56
3:c:1269:TRP:HZ3	6:f:1247:VAL:HB	1.70	0.56
4:d:1209:MET:HA	4:d:1377:VAL:HG12	1.86	0.56
4:d:1485:ARG:HD2	4:d:1485:ARG:N	2.20	0.56
5:e:1166:ASP:N	5:e:1167:ASP:CB	2.66	0.56
8:h:1068:ALA:O	8:h:1072:LEU:HG	2.06	0.56
2:j:1016:GLU:HG3	2:j:1017:ASN:H	1.71	0.56
2:j:1159:THR:HG21	2:j:1488:VAL:H	1.69	0.56
2:j:1245:ILE:O	2:j:1246:PHE:HD2	1.87	0.56
3:k:1353:GLY:H	3:k:1370:ASN:HB3	1.70	0.56
3:k:1482:THR:HA	3:k:1493:ASP:HA	1.87	0.56
4:l:1219:ALA:HB1	4:l:1221:LYS:NZ	2.20	0.56
8:p:1300:VAL:HG13	8:p:1321:LEU:HB3	1.87	0.56
1:A:55:ASP:HA	7:G:527:LYS:HB3	1.86	0.56
3:C:80:GLU:O	3:C:84:THR:HG23	2.05	0.56
5:E:428:CYS:HA	5:E:431:ARG:HG3	1.88	0.56
6:F:56:THR:O	6:F:62:LEU:HD21	2.05	0.56
6:F:428:SER:O	6:F:431:MET:HG2	2.05	0.56
8:H:284:ILE:O	8:H:288:MET:HG2	2.06	0.56
1:I:264:ILE:O	1:I:265:ASP:HB3	2.05	0.56
2:J:239:ASP:OD1	2:J:290:ILE:HB	2.06	0.56
2:J:245:ILE:O	2:J:246:PHE:HD2	1.87	0.56
3:K:118:PRO:O	3:K:122:ILE:HG13	2.05	0.56
3:K:302:SER:O	3:K:303:ASP:CB	2.40	0.56
3:K:321:LYS:HB3	3:K:324:ASP:HB2	1.87	0.56
3:K:514:ILE:HA	3:K:517:ALA:HB3	1.86	0.56
4:L:7:SER:HA	7:O:35:ALA:HB1	1.86	0.56
4:L:104:LEU:HD11	4:L:518:ILE:HD12	1.86	0.56
6:N:452:LEU:O	6:N:455:PRO:CD	2.51	0.56
7:O:51:ILE:HG22	7:O:53:ILE:HG23	1.87	0.56
7:O:109:MET:SD	7:O:514:THR:HB	2.45	0.56
8:P:427:GLU:HG2	8:P:459:VAL:HG21	1.85	0.56
1:a:1345:GLU:CD	1:a:1346:GLY:HA2	2.30	0.56
2:b:1402:LEU:HD21	2:b:1483:ARG:CG	2.36	0.56
3:c:1080:GLU:O	3:c:1084:THR:HG23	2.05	0.56
4:d:1291:SER:HA	4:d:1315:ASP:HA	1.86	0.56
4:d:1411:ILE:HG13	4:d:1501:VAL:HG22	1.87	0.56
6:f:1006:LEU:CD1	6:f:1007:ASN:H	2.18	0.56
6:f:1056:THR:O	6:f:1062:LEU:HD21	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g:1455:GLU:CG	7:g:1461:ALA:CB	2.81	0.56
1:i:1033:THR:OG1	1:i:1083:LEU:HD11	2.04	0.56
2:j:1037:LEU:HB2	2:j:1444:LEU:HD13	1.87	0.56
2:j:1045:LEU:CD2	2:j:1056:VAL:HG22	2.36	0.56
2:j:1141:ASP:CG	2:j:1142:ASN:H	2.13	0.56
2:j:1402:LEU:HD11	2:j:1483:ARG:HG3	1.88	0.56
5:m:1088:ALA:CB	5:m:1109:LYS:NZ	2.68	0.56
5:m:1255:PRO:HG3	5:m:1336:LEU:HA	1.87	0.56
6:n:1032:VAL:HB	6:n:1033:LEU:HD22	1.86	0.56
6:n:1452:LEU:O	6:n:1455:PRO:CD	2.51	0.56
6:n:1540:THR:O	6:n:1541:LEU:CD2	2.54	0.56
7:o:1109:MET:SD	7:o:1514:THR:HB	2.45	0.56
8:p:1025:ASP:HA	8:p:1028:ILE:HG13	1.87	0.56
8:p:1486:GLU:H	8:p:1487:PRO:HA	1.69	0.56
1:A:266:ASP:N	1:A:267:PRO:CD	2.68	0.56
1:A:345:GLU:CD	1:A:346:GLY:HA2	2.30	0.56
2:B:213:ILE:HG23	2:B:354:LEU:CD2	2.35	0.56
3:C:149:ALA:O	3:C:153:LYS:HG2	2.05	0.56
3:C:279:GLN:O	3:C:283:MET:HG2	2.05	0.56
7:G:494:LYS:O	7:G:495:PHE:CB	2.52	0.56
8:H:52:ASN:OD1	8:H:66:ASN:HB2	2.06	0.56
3:K:226:ASN:OD1	3:K:365:PHE:HA	2.06	0.56
6:N:6:LEU:CD1	6:N:7:ASN:H	2.18	0.56
8:P:204:VAL:CG2	8:P:409:LYS:CB	2.82	0.56
8:P:486:GLU:H	8:P:487:PRO:HA	1.69	0.56
2:b:1164:LYS:O	2:b:1165:ILE:C	2.48	0.56
2:b:1357:SER:CB	2:b:1360:LYS:CB	2.69	0.56
4:d:1016:LYS:O	4:d:1020:VAL:HG23	2.04	0.56
4:d:1171:ALA:HB3	4:d:1172:PRO:HD3	1.86	0.56
1:i:1183:ALA:HB1	1:i:1383:SER:HB2	1.87	0.56
2:j:1319:LEU:HD22	2:j:1320:VAL:HG13	1.88	0.56
6:n:1167:THR:CA	6:n:1168:GLU:HB3	2.34	0.56
6:n:1415:ALA:O	6:n:1491:VAL:HG23	2.06	0.56
2:B:116:HIS:HE1	2:B:118:GLN:CB	2.18	0.56
2:B:141:ASP:CG	2:B:142:ASN:H	2.13	0.56
3:C:355:PHE:HB2	3:C:368:LEU:HD13	1.87	0.56
4:D:110:LEU:HD13	4:D:439:ILE:HG23	1.87	0.56
4:D:485:ARG:HD2	4:D:485:ARG:N	2.20	0.56
5:E:255:PRO:HG3	5:E:336:LEU:HA	1.87	0.56
6:F:485:GLU:O	6:F:486:THR:C	2.48	0.56
6:F:485:GLU:O	6:F:488:TYR:CB	2.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:71:LYS:HD2	7:G:72:LEU:HD12	1.88	0.56
8:H:300:VAL:HG13	8:H:321:LEU:HB3	1.87	0.56
1:I:159:ILE:O	1:I:162:THR:HG22	2.06	0.56
1:I:463:ALA:HB1	1:I:470:SER:HB2	1.86	0.56
2:J:237:THR:CB	2:J:288:GLN:O	2.54	0.56
3:K:80:GLU:O	3:K:84:THR:HG23	2.05	0.56
4:L:209:MET:HA	4:L:377:VAL:HG12	1.86	0.56
8:P:52:ASN:OD1	8:P:66:ASN:HB2	2.06	0.56
3:c:1402:VAL:HG13	3:c:1502:PRO:HG2	1.86	0.56
4:d:1036:ARG:HE	4:d:1098:ILE:CG2	2.18	0.56
4:d:1219:ALA:HB1	4:d:1221:LYS:NZ	2.20	0.56
6:f:1415:ALA:O	6:f:1491:VAL:HG23	2.06	0.56
9:f:1601:ADP:O2'	9:f:1601:ADP:H8	1.87	0.56
7:g:1294:LEU:HD23	7:g:1315:ALA:HB3	1.87	0.56
1:i:1264:ILE:O	1:i:1265:ASP:HB3	2.05	0.56
1:i:1433:LEU:O	1:i:1437:ALA:HB3	2.05	0.56
2:j:1004:GLN:C	2:j:1005:ILE:CG2	2.73	0.56
2:j:1230:LYS:H	2:j:1281:ILE:CG2	2.18	0.56
3:k:1223:VAL:HG12	3:k:1224:LEU:N	2.20	0.56
3:k:1226:ASN:OD1	3:k:1365:PHE:HA	2.06	0.56
3:k:1322:LYS:HG3	3:k:1323:SER:N	2.21	0.56
1:A:422:GLY:HA2	9:A:601:ADP:N3	2.20	0.56
2:B:45:LEU:CD2	2:B:56:VAL:HG22	2.35	0.56
2:B:237:THR:CB	2:B:288:GLN:O	2.54	0.56
2:B:242:LYS:HD3	3:C:269:TRP:CZ2	2.39	0.56
2:B:319:LEU:HD22	2:B:320:VAL:HG13	1.88	0.56
2:B:450:PHE:CB	2:B:455:LEU:HD22	2.36	0.56
3:C:12:GLN:NE2	3:C:529:GLY:HA2	2.21	0.56
3:C:335:THR:O	3:C:337:VAL:HG23	2.06	0.56
4:D:8:ASN:C	4:D:10:THR:H	2.14	0.56
4:D:372:ARG:N	4:D:373:PRO:HD3	2.21	0.56
5:E:197:HIS:O	5:E:198:ASP:C	2.49	0.56
8:H:68:ALA:O	8:H:72:LEU:HG	2.05	0.56
1:I:345:GLU:CD	1:I:346:GLY:HA2	2.30	0.56
2:J:375:GLN:HE22	6:N:75:LEU:HB2	1.70	0.56
3:K:266:GLU:CD	3:K:266:GLU:N	2.64	0.56
3:K:335:THR:O	3:K:337:VAL:HG23	2.06	0.56
5:M:84:THR:HG22	5:M:86:ASP:N	2.18	0.56
7:O:121:SER:HB3	7:O:123:HIS:CE1	2.41	0.56
7:O:282:LEU:O	7:O:285:VAL:HG12	2.05	0.56
8:P:123:SER:OG	8:P:126:GLU:HG3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1016:GLU:HG3	2:b:1017:ASN:H	1.71	0.56
3:c:1523:VAL:HA	8:h:1052:ASN:O	2.05	0.56
5:e:1255:PRO:HG3	5:e:1336:LEU:HA	1.87	0.56
8:h:1300:VAL:HG13	8:h:1321:LEU:HB3	1.87	0.56
1:i:1076:GLN:O	1:i:1077:HIS:HB3	2.06	0.56
1:i:1187:VAL:HB	1:i:1382:SER:N	2.21	0.56
1:i:1541:ILE:HD11	5:m:1083:ILE:HD13	1.88	0.56
3:k:1080:GLU:O	3:k:1084:THR:HG23	2.05	0.56
4:l:1254:VAL:HG22	8:p:1264:THR:O	2.05	0.56
6:n:1006:LEU:CD1	6:n:1007:ASN:H	2.18	0.56
6:n:1167:THR:HG21	6:n:1169:VAL:HG23	1.86	0.56
7:o:1294:LEU:HD23	7:o:1315:ALA:HB3	1.87	0.56
1:A:76:GLN:O	1:A:77:HIS:HB3	2.06	0.56
2:B:164:LYS:O	2:B:165:ILE:C	2.48	0.56
4:D:177:SER:O	4:D:181:ILE:HG12	2.05	0.56
4:D:219:ALA:HB1	4:D:221:LYS:NZ	2.20	0.56
6:F:154:ALA:HB2	6:F:402:VAL:HG22	1.87	0.56
6:F:415:ALA:O	6:F:491:VAL:HG23	2.06	0.56
6:F:424:ARG:HG2	6:F:483:SER:CA	2.34	0.56
7:G:323:MET:HA	7:G:326:VAL:HG22	1.88	0.56
1:I:209:HIS:HE1	7:O:89:ALA:HB2	1.71	0.56
2:J:16:GLU:HG3	2:J:17:ASN:H	1.70	0.56
3:K:9:ASN:HD22	3:K:10:ALA:H	1.53	0.56
3:K:149:ALA:O	3:K:153:LYS:HG2	2.05	0.56
5:M:197:HIS:O	5:M:198:ASP:C	2.49	0.56
6:N:29:LEU:O	6:N:33:LEU:HD23	2.05	0.56
6:N:541:LEU:HB2	6:N:542:LYS:HA	0.59	0.56
7:O:43:THR:CG2	7:O:64:ASN:CB	2.83	0.56
8:P:284:ILE:O	8:P:288:MET:HG2	2.05	0.56
2:b:1045:LEU:CD2	2:b:1056:VAL:HG22	2.35	0.56
2:b:1319:LEU:HD22	2:b:1320:VAL:HG13	1.88	0.56
2:b:1463:ILE:O	2:b:1467:ILE:CB	2.52	0.56
3:c:1266:GLU:CD	3:c:1266:GLU:N	2.64	0.56
3:c:1353:GLY:H	3:c:1370:ASN:HB3	1.70	0.56
4:d:1104:LEU:HD11	4:d:1518:ILE:HD12	1.86	0.56
5:e:1241:ASN:O	5:e:1241:ASN:ND2	2.34	0.56
6:f:1056:THR:HG22	6:f:1390:GLN:HB2	1.86	0.56
6:f:1428:SER:O	6:f:1431:MET:HG2	2.05	0.56
6:f:1485:GLU:O	6:f:1486:THR:C	2.49	0.56
8:h:1025:ASP:HA	8:h:1028:ILE:HG13	1.87	0.56
2:j:1402:LEU:HD21	2:j:1483:ARG:CG	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:k:1009:ASN:HD22	3:k:1010:ALA:H	1.53	0.56
6:n:1485:GLU:O	6:n:1486:THR:C	2.48	0.56
1:A:183:ALA:HB1	1:A:383:SER:HB2	1.87	0.56
2:B:32:LEU:HD12	6:F:532:GLU:OE2	2.05	0.56
2:B:239:ASP:OD1	2:B:290:ILE:HB	2.06	0.56
3:C:118:PRO:O	3:C:122:ILE:HG13	2.05	0.56
7:G:23:LYS:HA	7:G:26:ILE:CG2	2.36	0.56
2:J:37:LEU:HB2	2:J:444:LEU:HD13	1.87	0.56
2:J:47:GLN:OE1	2:J:54:CYS:HB3	2.05	0.56
3:K:264:GLU:O	3:K:265:LYS:CB	2.54	0.56
4:L:120:ILE:HA	4:L:123:SER:HB3	1.87	0.56
4:L:219:ALA:HB1	4:L:221:LYS:NZ	2.20	0.56
4:L:242:SER:O	4:L:244:PRO:HD3	2.06	0.56
5:M:428:CYS:HA	5:M:431:ARG:HG3	1.88	0.56
1:a:1159:ILE:O	1:a:1162:THR:HG22	2.06	0.56
1:a:1187:VAL:HB	1:a:1382:SER:N	2.20	0.56
2:b:1450:PHE:CB	2:b:1455:LEU:HD22	2.36	0.56
3:c:1149:ALA:O	3:c:1153:LYS:HG2	2.05	0.56
3:c:1264:GLU:O	3:c:1265:LYS:CB	2.54	0.56
4:d:1242:SER:O	4:d:1244:PRO:HD3	2.06	0.56
5:e:1045:GLU:C	5:e:1047:LYS:H	2.14	0.56
5:e:1088:ALA:CB	5:e:1119:THR:HB	2.29	0.56
7:g:1121:SER:HB3	7:g:1123:HIS:CE1	2.41	0.56
1:i:1225:ASN:C	1:i:1225:ASN:HD22	2.13	0.56
2:j:1196:ILE:O	2:j:1367:ILE:HA	2.06	0.56
3:k:1266:GLU:CD	3:k:1266:GLU:N	2.64	0.56
4:l:1036:ARG:HE	4:l:1098:ILE:CG2	2.18	0.56
5:m:1045:GLU:C	5:m:1047:LYS:H	2.14	0.56
5:m:1241:ASN:O	5:m:1241:ASN:ND2	2.34	0.56
6:n:1045:MET:HA	6:n:1054:LYS:O	2.05	0.56
6:n:1538:ARG:HH11	6:n:1538:ARG:HG3	1.71	0.56
7:o:1023:LYS:HA	7:o:1026:ILE:CG2	2.36	0.56
7:o:1121:SER:HB3	7:o:1123:HIS:CE1	2.41	0.56
8:p:1284:ILE:O	8:p:1288:MET:HG2	2.05	0.56
1:A:187:VAL:HB	1:A:382:SER:N	2.21	0.56
2:B:326:VAL:CG1	3:C:304:LEU:HD22	2.36	0.56
3:C:223:VAL:HG12	3:C:224:LEU:N	2.20	0.56
4:D:265:LYS:HZ2	8:H:343:ARG:HD3	1.69	0.56
9:D:601:ADP:O3'	9:D:601:ADP:C8	2.59	0.56
6:F:424:ARG:NH1	6:F:479:ASP:CB	2.69	0.56
6:F:541:LEU:HB2	6:F:542:LYS:HA	0.60	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:121:SER:HB3	7:G:123:HIS:CE1	2.41	0.56
7:G:420:VAL:HG23	7:G:446:LEU:HD13	1.88	0.56
2:J:402:LEU:HD21	2:J:483:ARG:CG	2.36	0.56
2:J:450:PHE:CB	2:J:455:LEU:HD22	2.36	0.56
6:N:47:VAL:HG12	6:N:48:ASP:H	1.71	0.56
6:N:92:THR:HG21	10:N:602:BEF:F3	1.95	0.56
7:O:41:LYS:N	7:O:42:PRO:CD	2.69	0.56
8:P:25:ASP:HA	8:P:28:ILE:HG13	1.87	0.56
8:P:323:VAL:HG23	8:P:323:VAL:O	2.06	0.56
1:a:1541:ILE:HD13	5:e:1073:ILE:HG13	1.87	0.56
2:b:1037:LEU:HB2	2:b:1444:LEU:HD13	1.87	0.56
4:d:1110:LEU:HD13	4:d:1439:ILE:HG23	1.87	0.56
6:f:1209:PHE:CZ	6:f:1211:LYS:HD2	2.41	0.56
6:f:1424:ARG:NH1	6:f:1479:ASP:CB	2.69	0.56
7:g:1071:LYS:HD2	7:g:1072:LEU:HD12	1.88	0.56
7:g:1420:VAL:HG23	7:g:1446:LEU:HD13	1.88	0.56
7:g:1492:PHE:HA	7:g:1497:TRP:NE1	2.21	0.56
1:i:1233:MET:HE2	1:i:1315:ILE:O	2.06	0.56
2:j:1450:PHE:CB	2:j:1455:LEU:HD22	2.36	0.56
8:p:1029:ILE:CG2	8:p:1030:LYS:N	2.69	0.56
1:A:159:ILE:O	1:A:162:THR:HG22	2.06	0.56
2:B:37:LEU:HB2	2:B:444:LEU:HD13	1.87	0.56
2:B:47:GLN:OE1	2:B:54:CYS:HB3	2.05	0.56
2:B:63:ILE:HG23	2:B:64:LEU:HG	1.88	0.56
2:B:371:GLY:O	2:B:372:ALA:C	2.49	0.56
4:D:242:SER:O	4:D:244:PRO:HD3	2.06	0.56
8:H:25:ASP:HA	8:H:28:ILE:HG13	1.87	0.56
8:H:29:ILE:CG2	8:H:30:LYS:N	2.69	0.56
1:I:76:GLN:O	1:I:77:HIS:HB3	2.06	0.56
1:I:266:ASP:N	1:I:267:PRO:CD	2.68	0.56
2:J:63:ILE:HG23	2:J:64:LEU:HG	1.88	0.56
2:J:230:LYS:H	2:J:281:ILE:CG2	2.18	0.56
4:L:44:MET:HE3	8:P:531:ALA:HB2	1.88	0.56
4:L:527:SER:HB3	4:L:528:ARG:HH21	1.71	0.56
5:M:506:LYS:C	5:M:507:ILE:HD12	2.31	0.56
6:N:540:THR:O	6:N:541:LEU:CD2	2.54	0.56
7:O:323:MET:HA	7:O:326:VAL:HG22	1.88	0.56
1:a:1076:GLN:O	1:a:1077:HIS:HB3	2.06	0.56
1:a:1182:ASP:O	1:a:1186:ALA:HB3	2.05	0.56
1:a:1183:ALA:HB1	1:a:1383:SER:HB2	1.87	0.56
1:a:1252:GLN:HG3	1:a:1253:LYS:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1063:ILE:HG23	2:b:1064:LEU:HG	1.88	0.56
3:c:1012:GLN:NE2	3:c:1529:GLY:HA2	2.21	0.56
6:f:1541:LEU:HB2	6:f:1542:LYS:CB	2.32	0.56
7:g:1023:LYS:HA	7:g:1026:ILE:CG2	2.36	0.56
7:g:1041:LYS:N	7:g:1042:PRO:CD	2.69	0.56
7:g:1377:LEU:H	7:g:1377:LEU:CD1	2.19	0.56
8:h:1323:VAL:HG23	8:h:1323:VAL:O	2.06	0.56
2:j:1326:VAL:CG1	3:k:1304:LEU:HD13	2.35	0.56
2:j:1460:ARG:O	2:j:1463:ILE:HG22	2.06	0.56
2:j:1511:VAL:HB	2:j:1514:ILE:HD11	1.88	0.56
4:l:1394:LEU:HA	4:l:1397:ALA:HB3	1.89	0.56
5:m:1166:ASP:N	5:m:1167:ASP:CB	2.66	0.56
1:A:233:MET:HE2	1:A:315:ILE:O	2.06	0.55
1:A:252:GLN:HG3	1:A:253:LYS:H	1.71	0.55
1:A:329:ILE:HD13	1:A:374:ILE:HD12	1.87	0.55
2:B:16:GLU:HG3	2:B:17:ASN:H	1.71	0.55
2:B:402:LEU:HD11	2:B:483:ARG:HG3	1.88	0.55
2:B:475:ASN:HD22	2:B:475:ASN:N	1.92	0.55
5:E:35:GLN:OE1	5:E:36:GLY:HA3	2.06	0.55
5:E:74:LEU:CG	5:E:93:GLN:HB3	2.35	0.55
6:F:195:GLU:CG	6:F:197:MET:HE1	2.36	0.55
1:I:187:VAL:HB	1:I:382:SER:N	2.21	0.55
1:I:225:ASN:C	1:I:225:ASN:HD22	2.13	0.55
1:I:517:VAL:O	1:I:518:LEU:CD2	2.54	0.55
2:J:5:ILE:O	3:K:71:ALA:N	2.39	0.55
4:L:372:ARG:N	4:L:373:PRO:HD3	2.21	0.55
4:L:394:LEU:HA	4:L:397:ALA:HB3	1.88	0.55
5:M:45:GLU:C	5:M:47:LYS:H	2.14	0.55
5:M:181:LEU:HA	5:M:205:VAL:HG21	1.89	0.55
1:a:1517:VAL:O	1:a:1518:LEU:CD2	2.54	0.55
2:b:1141:ASP:CG	2:b:1142:ASN:H	2.13	0.55
3:c:1321:LYS:HB3	3:c:1324:ASP:HB2	1.87	0.55
4:d:1008:ASN:C	4:d:1010:THR:H	2.14	0.55
4:d:1394:LEU:HA	4:d:1397:ALA:HB3	1.89	0.55
5:e:1032:VAL:HG22	5:e:1033:LYS:N	2.13	0.55
5:e:1506:LYS:C	5:e:1507:ILE:HD12	2.31	0.55
6:f:1214:VAL:O	6:f:1215:LEU:HD23	2.07	0.55
6:f:1538:ARG:HH11	6:f:1538:ARG:HG3	1.71	0.55
8:h:1284:ILE:O	8:h:1288:MET:HG2	2.05	0.55
7:o:1294:LEU:CD2	7:o:1315:ALA:HB3	2.36	0.55
1:A:500:TYR:HA	1:A:511:ASP:HA	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:517:VAL:O	1:A:518:LEU:CD2	2.54	0.55
2:B:115:ILE:HG12	5:M:492:ILE:HD11	1.88	0.55
3:C:226:ASN:OD1	3:C:365:PHE:HA	2.06	0.55
3:C:321:LYS:HB3	3:C:324:ASP:HB2	1.87	0.55
6:F:45:MET:HA	6:F:54:LYS:O	2.05	0.55
6:F:47:VAL:HG12	6:F:48:ASP:H	1.70	0.55
1:I:182:ASP:O	1:I:186:ALA:HB3	2.05	0.55
3:K:482:THR:HA	3:K:493:ASP:HA	1.87	0.55
4:L:8:ASN:C	4:L:10:THR:H	2.14	0.55
6:N:68:ILE:HD13	6:N:74:VAL:HG22	1.89	0.55
6:N:195:GLU:CG	6:N:197:MET:HE1	2.36	0.55
6:N:209:PHE:CZ	6:N:211:LYS:HD2	2.41	0.55
1:a:1209:HIS:HE1	7:g:1089:ALA:HB2	1.70	0.55
2:b:1047:GLN:OE1	2:b:1054:CYS:HB3	2.05	0.55
2:b:1402:LEU:HD11	2:b:1483:ARG:HG3	1.88	0.55
3:c:1104:LEU:HD21	3:c:1517:ALA:HA	1.89	0.55
4:d:1207:THR:HB	4:d:1378:VAL:O	2.07	0.55
4:d:1527:SER:HB3	4:d:1528:ARG:HH21	1.71	0.55
6:f:1047:VAL:HG12	6:f:1048:ASP:H	1.70	0.55
1:i:1055:ASP:HA	7:o:1527:LYS:HB3	1.89	0.55
1:i:1159:ILE:O	1:i:1162:THR:HG22	2.06	0.55
2:j:1324:GLU:H	3:k:1311:LYS:NZ	2.03	0.55
3:k:1335:THR:O	3:k:1337:VAL:HG23	2.06	0.55
6:n:1193:MET:HE3	6:n:1330:LEU:CD1	2.29	0.55
8:p:1323:VAL:HG23	8:p:1323:VAL:O	2.07	0.55
1:A:350:PHE:CE2	1:A:354:TYR:CB	2.85	0.55
3:C:322:LYS:HG3	3:C:323:SER:N	2.21	0.55
4:D:209:MET:HA	4:D:377:VAL:HG12	1.86	0.55
4:D:411:ILE:HG13	4:D:501:VAL:HG22	1.87	0.55
5:E:181:LEU:HA	5:E:205:VAL:HG21	1.88	0.55
5:E:351:LEU:HD13	5:E:351:LEU:N	2.22	0.55
6:F:68:ILE:HD13	6:F:74:VAL:HG22	1.89	0.55
6:F:151:LEU:CG	6:F:175:THR:HG23	2.31	0.55
1:I:273:ILE:HG21	5:M:295:TYR:CE2	2.41	0.55
2:J:511:VAL:HB	2:J:514:ILE:HD11	1.88	0.55
3:K:506:LYS:O	3:K:510:VAL:HG23	2.06	0.55
5:M:273:THR:CG2	5:M:364:PRO:CA	2.72	0.55
5:M:351:LEU:HD13	5:M:351:LEU:N	2.22	0.55
8:P:68:ALA:O	8:P:72:LEU:HG	2.06	0.55
2:b:1230:LYS:H	2:b:1281:ILE:CG2	2.18	0.55
2:b:1237:THR:CB	2:b:1288:GLN:O	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1242:LYS:HA	3:c:1269:TRP:HE1	1.71	0.55
4:d:1372:ARG:N	4:d:1373:PRO:HD3	2.21	0.55
5:e:1181:LEU:HA	5:e:1205:VAL:HG21	1.88	0.55
5:e:1351:LEU:HD13	5:e:1351:LEU:N	2.22	0.55
5:e:1352:GLU:HA	6:f:1222:PRO:CG	2.36	0.55
6:f:1035:THR:HG22	6:f:1042:THR:H	1.72	0.55
8:h:1029:ILE:CG2	8:h:1030:LYS:N	2.69	0.55
1:i:1517:VAL:O	1:i:1518:LEU:CD2	2.54	0.55
3:k:1523:VAL:HA	8:p:1052:ASN:O	2.07	0.55
4:l:1485:ARG:HD2	4:l:1485:ARG:N	2.20	0.55
4:l:1521:ILE:HG12	7:o:1062:ILE:HD11	1.88	0.55
4:l:1527:SER:HB3	4:l:1528:ARG:HH21	1.71	0.55
8:p:1052:ASN:OD1	8:p:1066:ASN:HB2	2.06	0.55
8:p:1068:ALA:O	8:p:1072:LEU:HG	2.05	0.55
2:B:402:LEU:HD21	2:B:483:ARG:CG	2.36	0.55
6:F:540:THR:O	6:F:541:LEU:CD2	2.54	0.55
7:G:58:GLN:NE2	7:G:58:GLN:HA	2.22	0.55
1:I:484:SER:OG	1:I:498:ARG:CB	2.55	0.55
2:J:319:LEU:HD22	2:J:320:VAL:HG13	1.88	0.55
4:L:521:ILE:HD11	7:O:62:ILE:HD12	1.82	0.55
7:O:23:LYS:HA	7:O:26:ILE:CG2	2.36	0.55
7:O:492:PHE:HA	7:O:497:TRP:NE1	2.21	0.55
8:P:29:ILE:CG2	8:P:30:LYS:N	2.69	0.55
1:a:1233:MET:HE2	1:a:1315:ILE:O	2.06	0.55
1:a:1252:GLN:HG3	1:a:1253:LYS:H	1.71	0.55
1:a:1500:TYR:HA	1:a:1511:ASP:HA	1.89	0.55
2:b:1371:GLY:O	2:b:1372:ALA:C	2.49	0.55
4:d:1298:ASN:CB	4:d:1299:ASP:HA	2.37	0.55
5:e:1428:CYS:HA	5:e:1431:ARG:HG3	1.88	0.55
6:f:1452:LEU:O	6:f:1455:PRO:CD	2.51	0.55
7:g:1051:ILE:HG22	7:g:1053:ILE:HG23	1.87	0.55
2:j:1173:PHE:HA	2:j:1176:LEU:HD12	1.89	0.55
2:j:1210:GLU:HB3	2:j:1357:SER:O	2.07	0.55
3:k:1118:PRO:O	3:k:1122:ILE:HG13	2.05	0.55
4:l:1008:ASN:C	4:l:1010:THR:H	2.14	0.55
5:m:1181:LEU:HA	5:m:1205:VAL:HG21	1.88	0.55
6:n:1151:LEU:CG	6:n:1175:THR:HG23	2.32	0.55
6:n:1195:GLU:CG	6:n:1197:MET:HE1	2.36	0.55
7:o:1051:ILE:HG22	7:o:1053:ILE:HG23	1.87	0.55
1:A:225:ASN:C	1:A:225:ASN:HD22	2.14	0.55
1:A:252:GLN:HB2	1:A:303:ASP:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:40:LYS:HZ2	6:F:117:ILE:HG13	1.71	0.55
3:C:104:LEU:HD21	3:C:517:ALA:HA	1.89	0.55
3:C:266:GLU:CD	3:C:266:GLU:N	2.64	0.55
7:G:109:MET:SD	7:G:514:THR:HB	2.45	0.55
7:G:294:LEU:CD2	7:G:315:ALA:HB3	2.37	0.55
2:J:402:LEU:HD11	2:J:483:ARG:HG3	1.88	0.55
2:J:460:ARG:O	2:J:463:ILE:HG22	2.07	0.55
4:L:524:ILE:O	4:L:524:ILE:HG22	2.06	0.55
6:N:35:THR:HG22	6:N:42:THR:H	1.72	0.55
6:N:160:THR:H	6:N:164:ALA:CB	2.20	0.55
6:N:415:ALA:O	6:N:491:VAL:HG23	2.06	0.55
6:N:424:ARG:NH1	6:N:479:ASP:CB	2.69	0.55
6:N:485:GLU:O	6:N:486:THR:C	2.48	0.55
3:c:1009:ASN:HD22	3:c:1010:ALA:H	1.53	0.55
3:c:1335:THR:O	3:c:1337:VAL:HG23	2.06	0.55
6:f:1068:ILE:HD13	6:f:1074:VAL:HG22	1.89	0.55
6:f:1171:THR:O	6:f:1175:THR:CB	2.55	0.55
8:h:1007:GLN:HB3	4:l:1071:LEU:O	2.07	0.55
1:i:1500:TYR:HA	1:i:1511:ASP:HA	1.89	0.55
3:k:1301:VAL:HG13	3:k:1301:VAL:O	2.07	0.55
4:l:1207:THR:HB	4:l:1378:VAL:O	2.07	0.55
6:n:1043:LEU:CD2	6:n:1057:LYS:CB	2.78	0.55
6:n:1195:GLU:CG	6:n:1197:MET:SD	2.94	0.55
8:p:1123:SER:OG	8:p:1126:GLU:HG3	2.06	0.55
1:A:484:SER:OG	1:A:498:ARG:CB	2.55	0.55
4:D:207:THR:HB	4:D:378:VAL:O	2.07	0.55
6:F:209:PHE:CZ	6:F:211:LYS:HD2	2.41	0.55
8:H:323:VAL:HG23	8:H:323:VAL:O	2.06	0.55
1:I:76:GLN:O	1:I:77:HIS:CB	2.55	0.55
1:I:252:GLN:HG3	1:I:253:LYS:H	1.71	0.55
2:J:45:LEU:CD2	2:J:56:VAL:HG22	2.36	0.55
3:K:170:LYS:C	3:K:170:LYS:HD3	2.32	0.55
4:L:298:ASN:CB	4:L:299:ASP:HA	2.37	0.55
4:L:485:ARG:HD2	4:L:485:ARG:N	2.20	0.55
5:M:470:ARG:O	5:M:474:GLN:HG3	2.07	0.55
7:O:115:PHE:O	7:O:119:GLY:HA3	2.07	0.55
8:P:328:GLU:HG3	8:P:331:ARG:HH12	1.72	0.55
2:b:1210:GLU:HB3	2:b:1357:SER:O	2.07	0.55
3:c:1226:ASN:OD1	3:c:1365:PHE:HA	2.06	0.55
3:c:1355:PHE:HB2	3:c:1368:LEU:HD13	1.87	0.55
3:c:1506:LYS:O	3:c:1510:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1033:LEU:HD22	6:f:1033:LEU:N	2.21	0.55
6:f:1540:THR:O	6:f:1541:LEU:CD2	2.54	0.55
7:g:1323:MET:HA	7:g:1326:VAL:HG22	1.88	0.55
8:h:1123:SER:OG	8:h:1126:GLU:HG3	2.06	0.55
2:j:1237:THR:CB	2:j:1288:GLN:O	2.54	0.55
6:n:1209:PHE:CZ	6:n:1211:LYS:HD2	2.41	0.55
6:n:1214:VAL:O	6:n:1215:LEU:HD23	2.06	0.55
6:n:1428:SER:O	6:n:1431:MET:HG2	2.05	0.55
7:o:1034:VAL:O	7:o:1038:GLU:HG2	2.06	0.55
8:p:1463:LEU:HD21	9:p:1601:ADP:O2'	2.06	0.55
1:A:92:ARG:HB3	5:E:388:THR:HA	1.89	0.55
3:C:482:THR:HA	3:C:493:ASP:HA	1.87	0.55
4:D:394:LEU:HA	4:D:397:ALA:HB3	1.89	0.55
6:F:92:THR:CG2	10:F:602:BEF:F3	2.44	0.55
6:F:160:THR:H	6:F:164:ALA:CB	2.20	0.55
6:F:214:VAL:O	6:F:215:LEU:HD23	2.06	0.55
7:G:34:VAL:O	7:G:38:GLU:HG2	2.06	0.55
7:G:41:LYS:N	7:G:42:PRO:CD	2.69	0.55
2:J:42:MET:HE3	6:N:529:LEU:O	2.07	0.55
3:K:104:LEU:HD21	3:K:517:ALA:HA	1.89	0.55
3:K:508:GLN:HG2	8:P:215:GLY:HA2	1.89	0.55
2:b:1460:ARG:O	2:b:1463:ILE:HG22	2.07	0.55
5:e:1470:ARG:O	5:e:1474:GLN:HG3	2.07	0.55
6:f:1439:LYS:HZ2	5:m:1034:ASP:CB	2.19	0.55
1:i:1063:THR:HG22	1:i:1065:ASP:N	2.22	0.55
3:k:1370:ASN:OD1	3:k:2054:GLY:HA2	2.07	0.55
6:n:1068:ILE:HD13	6:n:1074:VAL:HG22	1.89	0.55
6:n:1160:THR:H	6:n:1164:ALA:CB	2.20	0.55
6:n:1424:ARG:NH1	6:n:1479:ASP:CB	2.69	0.55
8:p:1328:GLU:HG3	8:p:1331:ARG:HH12	1.72	0.55
2:B:229:ALA:HB3	2:B:339:GLU:O	2.07	0.55
2:B:292:ASP:HA	2:B:295:GLU:CD	2.32	0.55
2:B:460:ARG:O	2:B:463:ILE:HG22	2.07	0.55
2:B:514:ILE:CD1	3:C:47:MET:HB3	2.35	0.55
3:C:264:GLU:O	3:C:265:LYS:CB	2.54	0.55
5:E:173:ASP:HB3	5:E:437:SER:HB3	1.87	0.55
2:J:4:GLN:N	2:J:5:ILE:HG12	2.19	0.55
2:J:173:PHE:HA	2:J:176:LEU:HD12	1.89	0.55
2:J:475:ASN:HD22	2:J:475:ASN:N	1.92	0.55
3:K:322:LYS:HG3	3:K:323:SER:N	2.21	0.55
4:L:38:SER:HB3	4:L:46:LYS:HZ2	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:81:VAL:HG22	7:O:382:ALA:HB2	1.89	0.55
4:L:207:THR:HB	4:L:378:VAL:O	2.07	0.55
4:L:410:LEU:HD22	4:L:498:LEU:HB3	1.89	0.55
4:L:430:ARG:O	4:L:431:SER:C	2.50	0.55
6:N:195:GLU:CG	6:N:197:MET:SD	2.94	0.55
6:N:214:VAL:O	6:N:215:LEU:HD23	2.07	0.55
6:N:277:ILE:HG21	6:N:295:ILE:HG13	1.89	0.55
7:O:386:ILE:O	7:O:389:VAL:HB	2.07	0.55
8:P:24:ALA:CB	8:P:531:ALA:HB1	2.37	0.55
1:a:1225:ASN:C	1:a:1225:ASN:HD22	2.13	0.55
2:b:1031:ASP:OD1	2:b:1032:LEU:N	2.40	0.55
5:e:1074:LEU:CG	5:e:1093:GLN:HB3	2.35	0.55
5:e:1088:ALA:CB	5:e:1109:LYS:NZ	2.68	0.55
6:f:1075:LEU:HD21	6:f:1523:ILE:HG23	1.89	0.55
6:f:1171:THR:O	6:f:1175:THR:OG1	2.24	0.55
6:f:1195:GLU:CG	6:f:1197:MET:SD	2.94	0.55
6:f:1411:ILE:CG2	6:f:1412:ILE:H	2.16	0.55
8:h:1052:ASN:OD1	8:h:1066:ASN:HB2	2.06	0.55
1:i:1484:SER:OG	1:i:1498:ARG:CB	2.55	0.55
2:j:1040:LYS:HA	6:n:1116:ARG:HG3	1.89	0.55
2:j:1095:VAL:HG22	2:j:1497:VAL:HG22	1.89	0.55
2:j:1235:ASN:ND2	3:k:1304:LEU:HD21	2.21	0.55
2:j:1371:GLY:O	2:j:1372:ALA:C	2.49	0.55
2:j:1505:ALA:O	2:j:1509:LEU:HB2	2.07	0.55
6:n:1005:LEU:CA	6:n:1006:LEU:HB2	2.34	0.55
6:n:1409:LYS:H	6:n:1409:LYS:CD	2.14	0.55
7:o:1058:GLN:HA	7:o:1058:GLN:NE2	2.22	0.55
2:B:3:VAL:C	2:B:5:ILE:HG12	2.32	0.55
2:B:95:VAL:HG22	2:B:497:VAL:HG22	1.89	0.55
2:B:173:PHE:HA	2:B:176:LEU:HD12	1.89	0.55
3:C:275:ILE:CA	8:H:274:LEU:HD21	2.37	0.55
4:D:375:VAL:HG12	4:D:376:SER:N	2.22	0.55
6:F:277:ILE:HG21	6:F:295:ILE:HG13	1.89	0.55
6:F:353:LEU:N	6:F:369:GLU:HB3	2.22	0.55
6:F:372:ASP:N	6:F:373:PRO:HD3	2.22	0.55
1:I:233:MET:HE2	1:I:315:ILE:O	2.06	0.55
2:J:39:PRO:HA	2:J:163:SER:CA	2.37	0.55
3:K:523:VAL:HA	8:P:52:ASN:O	2.06	0.55
5:M:35:GLN:OE1	5:M:36:GLY:HA3	2.06	0.55
6:N:171:THR:O	6:N:175:THR:CB	2.55	0.55
6:N:538:ARG:HH11	6:N:538:ARG:HG3	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:541:LEU:HB2	6:N:542:LYS:CB	2.32	0.55
7:O:71:LYS:HD2	7:O:72:LEU:HD12	1.88	0.55
1:a:1012:THR:CG2	5:e:1097:ASP:H	2.17	0.55
2:b:1192:HIS:CD2	2:b:1193:ILE:HG23	2.42	0.55
4:d:1214:VAL:HG13	4:d:1362:ARG:HG2	1.89	0.55
5:e:1355:ALA:CB	6:f:1222:PRO:HG2	2.35	0.55
6:f:1199:MET:O	6:f:1381:LYS:CE	2.55	0.55
7:g:1034:VAL:O	7:g:1038:GLU:HG2	2.06	0.55
7:g:1058:GLN:HA	7:g:1058:GLN:NE2	2.22	0.55
2:j:1039:PRO:HA	2:j:1163:SER:CA	2.37	0.55
2:j:1063:ILE:HG23	2:j:1064:LEU:HG	1.88	0.55
2:j:1239:ASP:OD1	2:j:1290:ILE:HB	2.06	0.55
3:k:1170:LYS:HD3	3:k:1170:LYS:C	2.32	0.55
3:k:1527:VAL:HG11	8:p:1075:LEU:HD21	1.89	0.55
4:l:1242:SER:O	4:l:1244:PRO:HD3	2.06	0.55
4:l:1372:ARG:N	4:l:1373:PRO:HD3	2.21	0.55
4:l:1386:ILE:C	4:l:1388:ASP:H	2.15	0.55
4:l:1430:ARG:O	4:l:1431:SER:C	2.50	0.55
8:p:1138:THR:HG21	8:p:1452:PHE:HE1	1.72	0.55
8:p:1428:ILE:HD13	8:p:1478:LEU:HD13	1.89	0.55
3:C:124:ALA:HB1	3:C:441:PRO:CB	2.37	0.55
5:E:88:ALA:CB	5:E:109:LYS:NZ	2.68	0.55
6:F:199:MET:O	6:F:381:LYS:CE	2.55	0.55
6:F:538:ARG:HH11	6:F:538:ARG:HG3	1.71	0.55
8:H:123:SER:OG	8:H:126:GLU:HG3	2.06	0.55
1:I:252:GLN:HB2	1:I:303:ASP:HB2	1.89	0.55
4:L:411:ILE:HG13	4:L:501:VAL:HG22	1.87	0.55
6:N:372:ASP:N	6:N:373:PRO:HD3	2.22	0.55
7:O:33:CYS:HG	7:O:83:LEU:HD11	1.71	0.55
7:O:455:GLU:HG3	7:O:461:ALA:HB2	1.88	0.55
1:a:1252:GLN:HB2	1:a:1303:ASP:HB2	1.89	0.55
2:b:1284:PHE:HB3	2:b:1305:SER:HB3	1.89	0.55
2:b:1295:GLU:OE2	6:f:1338:ASN:HB2	2.07	0.55
2:b:1367:ILE:HG23	2:b:1367:ILE:O	2.06	0.55
4:d:1028:ALA:HB1	4:d:1078:LEU:HD11	1.89	0.55
4:d:1044:MET:HG3	8:h:1531:ALA:HB3	1.88	0.55
4:d:1196:LEU:HD22	4:d:1377:VAL:CG2	2.37	0.55
4:d:1524:ILE:HG22	4:d:1524:ILE:O	2.06	0.55
6:f:1043:LEU:HD22	6:f:1057:LYS:HB2	1.84	0.55
6:f:1409:LYS:H	6:f:1409:LYS:CD	2.14	0.55
8:h:1328:GLU:HG3	8:h:1331:ARG:HH12	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1284:PHE:HB3	2:j:1305:SER:HB3	1.89	0.55
5:m:1470:ARG:O	5:m:1474:GLN:HG3	2.07	0.55
5:m:1506:LYS:C	5:m:1507:ILE:HD12	2.31	0.55
6:n:1033:LEU:HD22	6:n:1033:LEU:N	2.21	0.55
6:n:1481:GLN:O	6:n:1485:GLU:HG2	2.07	0.55
7:o:1323:MET:HA	7:o:1326:VAL:HG22	1.88	0.55
1:A:94:ILE:HD11	1:A:526:LYS:HB2	1.89	0.54
1:A:460:LYS:HD2	3:K:113:GLU:HB2	1.89	0.54
2:B:422:ILE:HG21	2:B:427:SER:CB	2.36	0.54
3:C:170:LYS:C	3:C:170:LYS:HD3	2.32	0.54
3:C:370:ASN:OD1	3:C:1054:GLY:HA2	2.07	0.54
4:D:196:LEU:HD22	4:D:377:VAL:CG2	2.37	0.54
4:D:214:VAL:HG13	4:D:362:ARG:HG2	1.89	0.54
4:D:524:ILE:HG22	4:D:524:ILE:O	2.07	0.54
5:E:45:GLU:C	5:E:47:LYS:H	2.14	0.54
7:G:191:ARG:HB3	7:G:193:ASP:O	2.07	0.54
7:G:440:ASN:O	7:G:444:LYS:HD3	2.08	0.54
2:J:127:ALA:CB	2:J:430:VAL:HG22	2.31	0.54
2:J:210:GLU:HB3	2:J:357:SER:O	2.07	0.54
3:K:432:LYS:HA	3:K:439:GLN:HE21	1.72	0.54
4:L:499:GLN:HE22	9:L:601:ADP:H1'	1.72	0.54
6:N:33:LEU:HD22	6:N:33:LEU:N	2.22	0.54
6:N:353:LEU:N	6:N:369:GLU:HB3	2.22	0.54
3:c:1170:LYS:HD3	3:c:1170:LYS:C	2.32	0.54
6:f:1277:ILE:HG21	6:f:1295:ILE:HG13	1.89	0.54
6:f:1541:LEU:HB2	6:f:1542:LYS:HA	0.59	0.54
7:g:1115:PHE:O	7:g:1119:GLY:HA3	2.07	0.54
7:g:1294:LEU:CD2	7:g:1315:ALA:HB3	2.37	0.54
8:h:1252:CYS:HB2	8:h:1343:ARG:H	1.72	0.54
3:k:1012:GLN:NE2	3:k:1529:GLY:HA2	2.21	0.54
3:k:1264:GLU:O	3:k:1265:LYS:CB	2.54	0.54
3:k:1432:LYS:HA	3:k:1439:GLN:HE21	1.72	0.54
4:l:1196:LEU:HD22	4:l:1377:VAL:CG2	2.37	0.54
6:n:1372:ASP:N	6:n:1373:PRO:HD3	2.22	0.54
8:p:1237:LYS:HB2	8:p:1314:ASN:CB	2.31	0.54
2:B:192:HIS:CD2	2:B:193:ILE:HG23	2.42	0.54
2:B:511:VAL:HB	2:B:514:ILE:HD11	1.88	0.54
4:D:418:GLU:HG2	4:D:450:ILE:HB	1.89	0.54
4:D:430:ARG:O	4:D:431:SER:C	2.50	0.54
5:E:506:LYS:C	5:E:507:ILE:HD12	2.31	0.54
6:F:171:THR:O	6:F:175:THR:CB	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:215:LEU:HB3	6:F:217:HIS:CD2	2.36	0.54
1:I:548:ASP:OD2	1:I:548:ASP:N	2.37	0.54
2:J:505:ALA:O	2:J:509:LEU:HB2	2.07	0.54
4:L:418:GLU:HG2	4:L:450:ILE:HB	1.89	0.54
6:N:75:LEU:HD21	6:N:523:ILE:HG23	1.89	0.54
6:N:199:MET:O	6:N:381:LYS:CE	2.55	0.54
6:N:424:ARG:HG2	6:N:483:SER:CA	2.34	0.54
7:O:294:LEU:CD2	7:O:315:ALA:HB3	2.36	0.54
2:b:1295:GLU:OE1	6:f:1339:SER:HB3	2.07	0.54
4:d:1423:ARG:HH12	4:d:1473:HIS:CD2	2.26	0.54
6:f:1458:LEU:HD12	6:f:1458:LEU:C	2.33	0.54
8:h:1482:HIS:C	8:h:1484:VAL:N	2.65	0.54
1:i:1044:LEU:HD21	1:i:1103:ILE:HD12	1.89	0.54
1:i:1252:GLN:HB2	1:i:1303:ASP:HB2	1.89	0.54
1:i:1532:LEU:HD22	1:i:1536:VAL:HG23	1.90	0.54
3:k:1416:GLY:HA2	9:k:2101:ADP:HI'	1.88	0.54
6:n:1029:LEU:O	6:n:1033:LEU:HD23	2.05	0.54
6:n:1199:MET:O	6:n:1381:LYS:CE	2.55	0.54
7:o:1115:PHE:O	7:o:1119:GLY:HA3	2.07	0.54
7:o:1117:GLU:CD	7:o:1117:GLU:H	2.15	0.54
7:o:1377:LEU:H	7:o:1377:LEU:CD1	2.19	0.54
1:A:90:GLN:NE2	1:A:527:SER:HB3	2.22	0.54
2:B:4:GLN:N	2:B:5:ILE:HG12	2.19	0.54
4:D:527:SER:HB3	4:D:528:ARG:HH21	1.71	0.54
5:E:84:THR:HG23	5:E:418:GLU:OE2	2.08	0.54
5:E:470:ARG:O	5:E:474:GLN:HG3	2.07	0.54
6:F:75:LEU:HD21	6:F:523:ILE:HG23	1.89	0.54
6:F:324:ASN:O	6:F:328:LEU:N	2.33	0.54
7:G:117:GLU:CD	7:G:117:GLU:H	2.15	0.54
8:H:138:THR:HG21	8:H:452:PHE:HE1	1.72	0.54
2:J:326:VAL:HG13	3:K:304:LEU:HD22	1.90	0.54
3:K:12:GLN:NE2	3:K:529:GLY:HA2	2.21	0.54
6:N:501:PRO:O	6:N:504:GLU:N	2.39	0.54
7:O:420:VAL:HG23	7:O:446:LEU:HD13	1.88	0.54
1:a:1063:THR:HG22	1:a:1065:ASP:N	2.22	0.54
1:a:1484:SER:OG	1:a:1498:ARG:CB	2.55	0.54
2:b:1115:ILE:HG12	5:m:1492:ILE:HD11	1.89	0.54
3:c:1334:ALA:HB2	3:c:1349:GLY:N	2.23	0.54
4:d:1410:LEU:HD22	4:d:1498:LEU:HB3	1.89	0.54
6:f:1324:ASN:O	6:f:1328:LEU:N	2.33	0.54
6:f:1481:GLN:O	6:f:1485:GLU:HG2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g:1397:ILE:O	7:g:1400:VAL:HG22	2.07	0.54
8:h:1428:ILE:HD13	8:h:1478:LEU:HD13	1.90	0.54
2:j:1292:ASP:HA	2:j:1295:GLU:CD	2.32	0.54
3:k:1506:LYS:O	3:k:1510:VAL:HG23	2.06	0.54
5:m:1351:LEU:HD13	5:m:1351:LEU:N	2.22	0.54
6:n:1057:LYS:NZ	6:n:1057:LYS:O	2.40	0.54
6:n:1353:LEU:N	6:n:1369:GLU:HB3	2.22	0.54
1:A:412:THR:OG1	1:A:520:PRO:HG3	2.08	0.54
2:B:284:PHE:HB3	2:B:305:SER:HB3	1.89	0.54
2:B:289:LEU:HD13	2:B:294:PRO:HG3	1.90	0.54
2:B:326:VAL:CG2	3:C:304:LEU:HD22	2.37	0.54
3:C:262:GLU:H	8:H:266:LEU:HD11	1.73	0.54
4:D:196:LEU:HD22	4:D:377:VAL:HG22	1.89	0.54
6:F:171:THR:O	6:F:175:THR:OG1	2.24	0.54
2:J:31:ASP:OD1	2:J:32:LEU:N	2.40	0.54
2:J:95:VAL:HG22	2:J:497:VAL:HG22	1.89	0.54
2:J:196:ILE:O	2:J:367:ILE:HA	2.07	0.54
2:J:284:PHE:HB3	2:J:305:SER:HB3	1.89	0.54
4:L:28:ALA:HB1	4:L:78:LEU:HD11	1.89	0.54
4:L:46:LYS:HG3	8:P:532:THR:HG23	1.89	0.54
4:L:214:VAL:HG13	4:L:362:ARG:HG2	1.89	0.54
4:L:386:ILE:C	4:L:388:ASP:H	2.15	0.54
5:M:173:ASP:HB3	5:M:437:SER:HB3	1.87	0.54
6:N:155:ARG:CB	6:N:171:THR:HG23	2.38	0.54
7:O:117:GLU:CD	7:O:117:GLU:H	2.15	0.54
7:O:397:ILE:O	7:O:400:VAL:HG22	2.07	0.54
2:b:1173:PHE:HA	2:b:1176:LEU:HD12	1.89	0.54
3:c:1301:VAL:HG13	3:c:1301:VAL:O	2.07	0.54
3:c:1370:ASN:OD1	3:c:2054:GLY:HA2	2.07	0.54
3:c:1508:GLN:CG	8:h:1215:GLY:HA2	2.37	0.54
4:d:1418:GLU:HG2	4:d:1450:ILE:HB	1.89	0.54
5:e:1197:HIS:O	5:e:1198:ASP:C	2.49	0.54
6:f:1089:ASP:OD1	9:f:1601:ADP:O1B	2.25	0.54
6:f:1434:LEU:O	6:f:1438:GLY:HA2	2.08	0.54
7:g:1386:ILE:O	7:g:1389:VAL:HB	2.07	0.54
2:j:1003:VAL:C	2:j:1005:ILE:HG12	2.32	0.54
2:j:1192:HIS:CD2	2:j:1193:ILE:HG23	2.42	0.54
3:k:1124:ALA:HB1	3:k:1441:PRO:CB	2.37	0.54
5:m:1084:THR:HG22	5:m:1086:ASP:N	2.19	0.54
6:n:1488:TYR:O	6:n:1489:VAL:CB	2.56	0.54
7:o:1041:LYS:N	7:o:1042:PRO:CD	2.69	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1071:LYS:HD2	7:o:1072:LEU:HD12	1.88	0.54
7:o:1492:PHE:HA	7:o:1497:TRP:NE1	2.21	0.54
1:A:44:LEU:HD21	1:A:103:ILE:HD12	1.89	0.54
2:B:504:ALA:O	2:B:508:LEU:HB3	2.07	0.54
6:F:33:LEU:HD22	6:F:33:LEU:N	2.21	0.54
6:F:35:THR:HG22	6:F:42:THR:H	1.72	0.54
7:G:115:PHE:O	7:G:119:GLY:HA3	2.07	0.54
1:I:500:TYR:HA	1:I:511:ASP:HA	1.89	0.54
2:J:192:HIS:CD2	2:J:193:ILE:HG23	2.42	0.54
2:J:292:ASP:HA	2:J:295:GLU:CD	2.32	0.54
3:K:334:ALA:HB2	3:K:349:GLY:N	2.23	0.54
3:K:370:ASN:OD1	3:K:1054:GLY:HA2	2.07	0.54
5:M:476:LEU:HD11	5:M:538:ILE:HD11	1.90	0.54
6:N:229:LYS:C	6:N:231:ALA:H	2.16	0.54
6:N:488:TYR:O	6:N:489:VAL:CB	2.56	0.54
7:O:34:VAL:O	7:O:38:GLU:HG2	2.06	0.54
1:a:1090:GLN:NE2	1:a:1527:SER:HB3	2.23	0.54
1:a:1094:ILE:HD11	1:a:1526:LYS:HB2	1.89	0.54
2:b:1213:ILE:HG23	2:b:1354:LEU:HD23	1.90	0.54
2:b:1292:ASP:HA	2:b:1295:GLU:CD	2.32	0.54
2:b:1504:ALA:O	2:b:1508:LEU:HB3	2.07	0.54
4:d:1254:VAL:HG22	8:h:1264:THR:O	2.06	0.54
5:e:1035:GLN:OE1	5:e:1036:GLY:HA3	2.06	0.54
6:f:1215:LEU:HB3	6:f:1217:HIS:CD2	2.36	0.54
6:f:1451:LEU:O	6:f:1455:PRO:HD3	2.07	0.54
6:f:1488:TYR:O	6:f:1489:VAL:CB	2.56	0.54
2:j:1027:ILE:HA	2:j:1100:ALA:HB1	1.88	0.54
2:j:1445:ALA:HB2	2:j:1455:LEU:HD23	1.90	0.54
2:j:1504:ALA:O	2:j:1508:LEU:HB3	2.07	0.54
4:l:1423:ARG:HH12	4:l:1473:HIS:CD2	2.26	0.54
5:m:1273:THR:HG22	5:m:1364:PRO:CA	2.20	0.54
7:o:1206:GLY:O	7:o:1379:ARG:HD2	2.07	0.54
7:o:1440:ASN:O	7:o:1444:LYS:HD3	2.08	0.54
1:A:76:GLN:O	1:A:77:HIS:CB	2.55	0.54
2:B:455:LEU:HG	2:B:472:LEU:HD13	1.90	0.54
3:C:241:PRO:O	3:C:350:THR:HG23	2.08	0.54
3:C:515:GLU:OE2	8:H:390:THR:HG22	2.08	0.54
4:D:28:ALA:HB1	4:D:78:LEU:HD11	1.89	0.54
7:G:397:ILE:O	7:G:400:VAL:HG22	2.07	0.54
8:H:131:TYR:HD2	8:H:452:PHE:CD2	2.24	0.54
1:I:350:PHE:HE2	1:I:354:TYR:CB	2.16	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:532:LEU:HD22	1:I:536:VAL:HG23	1.90	0.54
2:J:27:ILE:HA	2:J:100:ALA:HB1	1.88	0.54
2:J:70:ASP:HB3	6:N:5:LEU:HD22	1.87	0.54
4:L:246:PRO:HB2	4:L:250:ASN:CG	2.33	0.54
6:N:434:LEU:O	6:N:438:GLY:HA2	2.08	0.54
7:O:440:ASN:O	7:O:444:LYS:HD3	2.08	0.54
1:a:1544:MET:HG2	1:a:1546:THR:HG23	1.90	0.54
2:b:1039:PRO:HA	2:b:1163:SER:CA	2.37	0.54
2:b:1511:VAL:HB	2:b:1514:ILE:HD11	1.88	0.54
4:d:1386:ILE:C	4:d:1388:ASP:H	2.15	0.54
6:f:1053:ILE:C	6:f:1053:ILE:CD1	2.62	0.54
6:f:1195:GLU:CG	6:f:1197:MET:HE1	2.36	0.54
6:f:1439:LYS:HG3	5:m:1034:ASP:CB	2.37	0.54
7:g:1043:THR:CG2	7:g:1064:ASN:CB	2.83	0.54
7:g:1075:VAL:HG11	7:g:1080:ALA:HB1	1.89	0.54
7:g:1440:ASN:O	7:g:1444:LYS:HD3	2.08	0.54
2:j:1359:CYS:CB	2:j:1360:LYS:HA	2.38	0.54
3:k:1334:ALA:HB2	3:k:1349:GLY:N	2.23	0.54
4:l:1246:PRO:HB2	4:l:1250:ASN:CG	2.33	0.54
4:l:1410:LEU:HD22	4:l:1498:LEU:HB3	1.89	0.54
6:n:1016:ASP:O	6:n:1019:LEU:HB2	2.08	0.54
6:n:1016:ASP:CA	6:n:1019:LEU:HD12	2.28	0.54
6:n:1171:THR:O	6:n:1175:THR:CB	2.55	0.54
2:B:459:LEU:CD2	2:B:472:LEU:HG	2.33	0.54
2:B:505:ALA:O	2:B:509:LEU:HB2	2.07	0.54
3:C:334:ALA:HB2	3:C:349:GLY:N	2.23	0.54
4:D:273:ASN:HD22	7:G:268:GLN:HE22	1.56	0.54
5:E:350:GLU:C	5:E:352:GLU:H	2.11	0.54
6:F:434:LEU:O	6:F:438:GLY:HA2	2.08	0.54
6:F:501:PRO:O	6:F:504:GLU:N	2.39	0.54
8:H:237:LYS:HB2	8:H:314:ASN:CB	2.31	0.54
1:I:431:ILE:HG13	1:I:435:ASN:HD22	1.73	0.54
2:J:245:ILE:O	2:J:246:PHE:CB	2.56	0.54
2:J:445:ALA:HB2	2:J:455:LEU:HD23	1.90	0.54
2:J:455:LEU:HG	2:J:472:LEU:HD13	1.90	0.54
2:J:514:ILE:CD1	3:K:47:MET:HB3	2.30	0.54
5:M:88:ALA:CB	5:M:109:LYS:NZ	2.68	0.54
6:N:451:LEU:O	6:N:455:PRO:HD3	2.07	0.54
6:N:458:LEU:HD12	6:N:458:LEU:C	2.33	0.54
7:O:241:ILE:HG12	7:O:292:ILE:HG23	1.89	0.54
8:P:131:TYR:HD2	8:P:452:PHE:CD2	2.24	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1045:GLY:C	1:a:1166:SER:HB2	2.33	0.54
2:b:1027:ILE:HA	2:b:1100:ALA:HB1	1.88	0.54
2:b:1239:ASP:OD1	2:b:1290:ILE:HB	2.06	0.54
2:b:1455:LEU:HG	2:b:1472:LEU:HD13	1.90	0.54
2:b:1505:ALA:O	2:b:1509:LEU:HB2	2.07	0.54
4:d:1375:VAL:HG12	4:d:1376:SER:N	2.22	0.54
4:d:1430:ARG:O	4:d:1431:SER:C	2.50	0.54
5:e:1084:THR:HG23	5:e:1418:GLU:OE2	2.08	0.54
8:h:1024:ALA:CB	8:h:1531:ALA:HB1	2.37	0.54
1:i:1090:GLN:NE2	1:i:1527:SER:HB3	2.23	0.54
1:i:1431:ILE:HG13	1:i:1435:ASN:HD22	1.73	0.54
3:k:1104:LEU:HD21	3:k:1517:ALA:HA	1.89	0.54
5:m:1197:HIS:O	5:m:1198:ASP:C	2.49	0.54
5:m:1428:CYS:HA	5:m:1431:ARG:HG3	1.88	0.54
6:n:1125:ALA:CA	6:n:1426:LEU:HD21	2.38	0.54
6:n:1451:LEU:O	6:n:1455:PRO:HD3	2.07	0.54
7:o:1397:ILE:O	7:o:1400:VAL:HG22	2.07	0.54
1:A:350:PHE:CD2	1:A:351:GLU:N	2.72	0.54
2:B:40:LYS:HA	6:F:116:ARG:HG3	1.90	0.54
2:B:213:ILE:HG23	2:B:354:LEU:HD23	1.90	0.54
3:C:506:LYS:O	3:C:510:VAL:HG23	2.06	0.54
6:F:155:ARG:CB	6:F:171:THR:HG23	2.38	0.54
6:F:229:LYS:C	6:F:231:ALA:H	2.16	0.54
6:F:236:LEU:O	6:F:297:ASN:HA	2.08	0.54
6:F:481:GLN:O	6:F:485:GLU:HG2	2.07	0.54
7:G:206:GLY:O	7:G:379:ARG:HD2	2.07	0.54
7:G:455:GLU:HG3	7:G:461:ALA:HB2	1.88	0.54
8:H:482:HIS:C	8:H:484:VAL:N	2.65	0.54
1:I:12:THR:HB	5:M:96:LEU:HA	1.90	0.54
1:I:45:GLY:C	1:I:166:SER:HB2	2.33	0.54
2:J:242:LYS:HE2	2:J:247:GLY:H	1.69	0.54
2:J:359:CYS:CB	2:J:360:LYS:HA	2.38	0.54
3:K:124:ALA:HB1	3:K:441:PRO:CB	2.37	0.54
6:N:2:SER:C	6:N:3:LEU:HD22	2.32	0.54
6:N:125:ALA:CA	6:N:426:LEU:HD21	2.38	0.54
7:O:208:ALA:HB1	7:O:210:GLU:OE1	2.08	0.54
8:P:138:THR:HG21	8:P:452:PHE:HE1	1.72	0.54
1:a:1076:GLN:O	1:a:1077:HIS:CB	2.55	0.54
2:b:1242:LYS:HE2	2:b:1247:GLY:H	1.69	0.54
3:c:1124:ALA:HB1	3:c:1441:PRO:CB	2.37	0.54
4:d:1520:ARG:O	7:g:1049:SER:CB	2.47	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:1084:THR:HG22	5:e:1086:ASP:N	2.18	0.54
7:g:1206:GLY:O	7:g:1379:ARG:HD2	2.07	0.54
8:h:1138:THR:HG21	8:h:1452:PHE:HE1	1.72	0.54
1:i:1412:THR:OG1	1:i:1520:PRO:HG3	2.08	0.54
2:j:1165:ILE:HD13	6:n:1526:ASN:HB2	1.89	0.54
4:l:1041:PRO:CG	9:l:1601:ADP:C5	2.91	0.54
4:l:1081:VAL:HG22	7:o:1382:ALA:HB2	1.88	0.54
4:l:1214:VAL:HG13	4:l:1362:ARG:HG2	1.89	0.54
4:l:1499:GLN:HE22	9:l:1601:ADP:C2'	2.21	0.54
6:n:1183:ASP:OD1	6:n:1183:ASP:N	2.41	0.54
7:o:1191:ARG:HB3	7:o:1193:ASP:O	2.07	0.54
7:o:1208:ALA:HB1	7:o:1210:GLU:OE1	2.08	0.54
7:o:1386:ILE:O	7:o:1389:VAL:HB	2.07	0.54
7:o:1455:GLU:HG3	7:o:1461:ALA:HB2	1.88	0.54
2:B:45:LEU:HB2	6:F:533:LEU:CB	2.38	0.54
2:B:49:ALA:HB1	6:F:538:ARG:HB2	1.90	0.54
2:B:359:CYS:CB	2:B:360:LYS:HA	2.38	0.54
4:D:110:LEU:CD1	4:D:439:ILE:HG23	2.38	0.54
6:F:488:TYR:O	6:F:489:VAL:CB	2.56	0.54
2:J:213:ILE:HG23	2:J:354:LEU:HD23	1.90	0.54
5:M:188:LEU:CB	5:M:197:HIS:HB2	2.38	0.54
6:N:15:ARG:O	6:N:18:ALA:HB3	2.08	0.54
6:N:154:ALA:HB2	6:N:402:VAL:HG22	1.87	0.54
7:O:377:LEU:H	7:O:377:LEU:CD1	2.19	0.54
2:b:1229:ALA:HB3	2:b:1339:GLU:O	2.07	0.54
3:c:1302:SER:O	3:c:1303:ASP:CB	2.40	0.54
5:e:1188:LEU:CB	5:e:1197:HIS:HB2	2.38	0.54
5:e:1476:LEU:HD11	5:e:1538:ILE:HD11	1.90	0.54
5:e:1544:LEU:HD23	6:f:1384:THR:HG21	1.90	0.54
6:f:1171:THR:N	6:f:1172:PRO:CD	2.71	0.54
1:i:1076:GLN:O	1:i:1077:HIS:CB	2.55	0.54
1:i:1252:GLN:HG3	1:i:1253:LYS:H	1.71	0.54
1:i:1363:GLN:HA	1:i:1372:ILE:HA	1.90	0.54
1:i:1544:MET:HG2	1:i:1546:THR:HG23	1.90	0.54
2:j:1289:LEU:HD12	2:j:1289:LEU:O	2.08	0.54
3:k:1241:PRO:O	3:k:1350:THR:HG23	2.08	0.54
4:l:1418:GLU:HG2	4:l:1450:ILE:HB	1.89	0.54
5:m:1061:ILE:HD13	5:m:1061:ILE:O	2.08	0.54
5:m:1188:LEU:CB	5:m:1197:HIS:HB2	2.38	0.54
6:n:1229:LYS:C	6:n:1231:ALA:H	2.16	0.54
7:o:1043:THR:CG2	7:o:1064:ASN:CB	2.83	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:27:ILE:HA	2:B:100:ALA:HB1	1.88	0.54
2:B:32:LEU:HG	6:F:532:GLU:CD	2.33	0.54
2:B:32:LEU:HD11	6:F:532:GLU:CD	2.33	0.54
2:B:210:GLU:HB3	2:B:357:SER:O	2.07	0.54
3:C:457:ILE:HD11	3:C:467:LEU:HD22	1.90	0.54
5:E:61:ILE:O	5:E:61:ILE:HD13	2.08	0.54
5:E:355:ALA:HB2	5:E:362:ILE:HD11	1.90	0.54
6:F:2:SER:C	6:F:3:LEU:HD22	2.32	0.54
6:F:16:ASP:O	6:F:19:LEU:HB2	2.08	0.54
6:F:43:LEU:HD22	6:F:57:LYS:HB2	1.84	0.54
7:G:174:ASN:ND2	7:G:209:MET:SD	2.80	0.54
7:G:208:ALA:HB1	7:G:210:GLU:OE1	2.08	0.54
7:G:492:PHE:HA	7:G:497:TRP:NE1	2.21	0.54
8:H:24:ALA:CB	8:H:531:ALA:O	2.56	0.54
8:H:252:CYS:HB2	8:H:343:ARG:H	1.73	0.54
1:I:90:GLN:NE2	1:I:527:SER:HB3	2.22	0.54
1:I:458:ILE:N	1:I:458:ILE:HD12	2.24	0.54
2:J:3:VAL:C	2:J:5:ILE:HG12	2.32	0.54
2:J:289:LEU:HD12	2:J:289:LEU:O	2.08	0.54
2:J:289:LEU:HD13	2:J:294:PRO:HG3	1.90	0.54
4:L:521:ILE:CG2	7:O:50:ASP:O	2.55	0.54
2:b:1124:TYR:O	2:b:1128:SER:HB2	2.08	0.54
5:e:1061:ILE:HD13	5:e:1061:ILE:O	2.08	0.54
6:f:1154:ALA:HB2	6:f:1402:VAL:HG22	1.87	0.54
6:f:1160:THR:H	6:f:1164:ALA:CB	2.20	0.54
6:f:1229:LYS:C	6:f:1231:ALA:H	2.16	0.54
6:f:1236:LEU:O	6:f:1297:ASN:HA	2.08	0.54
7:g:1117:GLU:CD	7:g:1117:GLU:H	2.15	0.54
7:g:1208:ALA:HB1	7:g:1210:GLU:OE1	2.08	0.54
1:i:1020:ILE:CB	1:i:1025:ILE:HG12	2.38	0.54
2:j:1455:LEU:HG	2:j:1472:LEU:HD13	1.90	0.54
4:l:1298:ASN:CB	4:l:1299:ASP:HA	2.37	0.54
5:m:1476:LEU:HD11	5:m:1538:ILE:HD11	1.90	0.54
6:n:1171:THR:O	6:n:1175:THR:OG1	2.24	0.54
7:o:1174:ASN:ND2	7:o:1209:MET:SD	2.80	0.54
8:p:1024:ALA:CB	8:p:1531:ALA:HB1	2.37	0.54
8:p:1229:ASN:HA	8:p:1368:VAL:HG22	1.90	0.54
8:p:1482:HIS:C	8:p:1484:VAL:N	2.65	0.54
1:A:36:VAL:HG13	1:A:70:LEU:HD22	1.89	0.53
4:D:258:ARG:CD	8:H:283:GLN:HE21	2.20	0.53
4:D:386:ILE:C	4:D:388:ASP:H	2.15	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:423:ARG:HH12	4:D:473:HIS:CD2	2.26	0.53
4:D:485:ARG:HH22	9:D:601:ADP:HN62	1.55	0.53
5:E:88:ALA:CB	5:E:119:THR:HB	2.29	0.53
6:F:117:ILE:HD12	5:M:34:ASP:C	2.33	0.53
6:F:183:ASP:N	6:F:183:ASP:OD1	2.41	0.53
6:F:451:LEU:O	6:F:455:PRO:HD3	2.07	0.53
7:G:44:LEU:C	7:G:46:PRO:HD2	2.33	0.53
7:G:75:VAL:HG11	7:G:80:ALA:HB1	1.89	0.53
7:G:377:LEU:H	7:G:377:LEU:CD1	2.19	0.53
7:G:386:ILE:O	7:G:389:VAL:HB	2.07	0.53
8:H:354:LEU:HD23	8:H:354:LEU:H	1.73	0.53
2:J:504:ALA:O	2:J:508:LEU:HB3	2.07	0.53
3:K:241:PRO:O	3:K:350:THR:HG23	2.08	0.53
4:L:196:LEU:HD22	4:L:377:VAL:HG22	1.89	0.53
6:N:16:ASP:O	6:N:19:LEU:HB2	2.08	0.53
6:N:481:GLN:O	6:N:485:GLU:HG2	2.08	0.53
8:P:24:ALA:CB	8:P:531:ALA:O	2.56	0.53
2:b:1095:VAL:HG22	2:b:1497:VAL:HG22	1.89	0.53
2:b:1289:LEU:HD13	2:b:1294:PRO:HG3	1.90	0.53
2:b:1359:CYS:CB	2:b:1360:LYS:HA	2.38	0.53
3:c:1241:PRO:O	3:c:1350:THR:HG23	2.08	0.53
3:c:1322:LYS:HG3	3:c:1323:SER:N	2.21	0.53
5:e:1093:GLN:NE2	5:e:1093:GLN:HA	2.23	0.53
6:f:1015:ARG:O	6:f:1018:ALA:HB3	2.08	0.53
1:i:1094:ILE:HD11	1:i:1526:LYS:HB2	1.89	0.53
2:j:1165:ILE:HG12	6:n:1529:LEU:CD1	2.36	0.53
2:j:1213:ILE:HG23	2:j:1354:LEU:HD23	1.90	0.53
4:l:1491:ASN:HB2	4:l:1494:GLU:OE1	2.09	0.53
5:m:1471:GLY:HA2	5:m:1474:GLN:OE1	2.08	0.53
6:n:1236:LEU:O	6:n:1297:ASN:HA	2.08	0.53
7:o:1420:VAL:CG2	7:o:1446:LEU:HD13	2.38	0.53
7:o:1420:VAL:HG23	7:o:1446:LEU:HD13	1.88	0.53
8:p:1067:ASP:HB3	8:p:1070:THR:OG1	2.08	0.53
8:p:1131:TYR:HD2	8:p:1452:PHE:CD2	2.24	0.53
1:A:20:ILE:CB	1:A:25:ILE:HG12	2.38	0.53
2:B:196:ILE:O	2:B:367:ILE:HA	2.09	0.53
4:D:410:LEU:HD22	4:D:498:LEU:HB3	1.89	0.53
6:F:125:ALA:CA	6:F:426:LEU:HD21	2.38	0.53
6:F:352:GLY:C	6:F:367:VAL:CG1	2.78	0.53
7:G:127:LYS:HD3	7:G:127:LYS:C	2.34	0.53
7:G:420:VAL:CG2	7:G:446:LEU:HD13	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:363:GLN:HA	1:I:372:ILE:HA	1.90	0.53
2:J:422:ILE:HG21	2:J:427:SER:CB	2.36	0.53
4:L:196:LEU:HD22	4:L:377:VAL:CG2	2.37	0.53
4:L:375:VAL:HG12	4:L:376:SER:N	2.22	0.53
6:N:57:LYS:NZ	6:N:57:LYS:O	2.40	0.53
6:N:236:LEU:O	6:N:297:ASN:HA	2.08	0.53
7:O:58:GLN:NE2	7:O:58:GLN:HA	2.22	0.53
7:O:127:LYS:HD3	7:O:127:LYS:C	2.34	0.53
8:P:354:LEU:HD23	8:P:354:LEU:H	1.74	0.53
1:a:1458:ILE:HD12	1:a:1458:ILE:N	2.23	0.53
4:d:1196:LEU:HD22	4:d:1377:VAL:HG22	1.89	0.53
4:d:1491:ASN:HB2	4:d:1494:GLU:OE1	2.08	0.53
6:f:1353:LEU:N	6:f:1369:GLU:HB3	2.22	0.53
6:f:1372:ASP:N	6:f:1373:PRO:HD3	2.22	0.53
8:h:1024:ALA:CB	8:h:1531:ALA:O	2.56	0.53
8:h:1472:ASN:ND2	7:o:1120:ILE:HG23	2.23	0.53
2:j:1031:ASP:OD1	2:j:1032:LEU:N	2.40	0.53
2:j:1242:LYS:HE2	2:j:1247:GLY:H	1.69	0.53
4:l:1044:MET:HG3	8:p:1531:ALA:HB3	1.89	0.53
4:l:1110:LEU:CD1	4:l:1439:ILE:HG23	2.38	0.53
4:l:1375:VAL:HG12	4:l:1376:SER:N	2.22	0.53
5:m:1084:THR:HG23	5:m:1418:GLU:OE2	2.08	0.53
6:n:1015:ARG:O	6:n:1018:ALA:HB3	2.08	0.53
6:n:1277:ILE:HG21	6:n:1295:ILE:HG13	1.89	0.53
2:B:31:ASP:OD1	2:B:32:LEU:N	2.40	0.53
2:B:39:PRO:HA	2:B:163:SER:CA	2.37	0.53
2:B:198:ILE:O	2:B:377:LEU:CD2	2.55	0.53
5:E:476:LEU:HD11	5:E:538:ILE:HD11	1.90	0.53
8:H:24:ALA:CB	8:H:531:ALA:HB1	2.37	0.53
1:I:63:THR:HG22	1:I:65:ASP:N	2.22	0.53
1:I:94:ILE:HD11	1:I:526:LYS:HB2	1.89	0.53
1:I:412:THR:OG1	1:I:520:PRO:HG3	2.08	0.53
2:J:459:LEU:CD2	2:J:472:LEU:HG	2.33	0.53
7:O:75:VAL:HG11	7:O:80:ALA:HB1	1.89	0.53
8:P:428:ILE:HD13	8:P:478:LEU:HD13	1.89	0.53
2:b:1127:ALA:CB	2:b:1430:VAL:HG22	2.31	0.53
2:b:1422:ILE:HG21	2:b:1427:SER:CB	2.36	0.53
4:d:1246:PRO:HB2	4:d:1250:ASN:CG	2.33	0.53
1:i:1036:VAL:HG13	1:i:1070:LEU:HD22	1.89	0.53
5:m:1498:LEU:HD11	5:m:1512:VAL:HG23	1.91	0.53
6:n:1155:ARG:CB	6:n:1171:THR:HG23	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1241:ILE:HG12	7:o:1292:ILE:HG23	1.89	0.53
8:p:1354:LEU:HD23	8:p:1354:LEU:H	1.74	0.53
4:D:367:ARG:C	4:D:369:ASN:N	2.67	0.53
6:F:117:ILE:CG1	5:M:33:LYS:HE2	2.34	0.53
2:J:49:ALA:HB2	6:N:536:ALA:O	2.08	0.53
2:J:229:ALA:HB3	2:J:339:GLU:O	2.07	0.53
3:K:457:ILE:HD11	3:K:467:LEU:HD22	1.90	0.53
4:L:110:LEU:CD1	4:L:439:ILE:HG23	2.38	0.53
5:M:84:THR:HG23	5:M:418:GLU:OE2	2.08	0.53
8:P:229:ASN:HA	8:P:368:VAL:HG22	1.90	0.53
8:P:420:LEU:HD23	8:P:421:PRO:N	2.24	0.53
1:a:1036:VAL:HG13	1:a:1070:LEU:HD22	1.89	0.53
1:a:1044:LEU:HD21	1:a:1103:ILE:HD12	1.89	0.53
2:b:1039:PRO:HD2	2:b:1474:LEU:HD12	1.91	0.53
6:f:1045:MET:HA	6:f:1055:LEU:HA	1.91	0.53
6:f:1155:ARG:CB	6:f:1171:THR:HG23	2.38	0.53
2:j:1045:LEU:HD12	6:n:1533:LEU:HD13	1.89	0.53
2:j:1049:ALA:HB2	6:n:1536:ALA:O	2.09	0.53
2:j:1376:THR:HA	2:j:1379:GLU:HB2	1.91	0.53
3:k:1409:SER:C	3:k:1411:SER:H	2.17	0.53
9:k:2101:ADP:C8	9:k:2101:ADP:C4'	2.92	0.53
4:l:1196:LEU:HD22	4:l:1377:VAL:HG22	1.89	0.53
6:n:1105:ALA:C	6:n:1107:ARG:N	2.67	0.53
1:A:431:ILE:HG13	1:A:435:ASN:HD22	1.73	0.53
1:A:532:LEU:HD22	1:A:536:VAL:HG23	1.90	0.53
2:B:124:TYR:O	2:B:128:SER:HB2	2.08	0.53
2:B:127:ALA:CB	2:B:430:VAL:HG22	2.31	0.53
2:B:201:GLY:N	6:F:86:ILE:HD12	2.21	0.53
2:B:319:LEU:CD2	2:B:357:SER:OG	2.57	0.53
3:C:409:SER:C	3:C:411:SER:H	2.17	0.53
3:C:432:LYS:HA	3:C:439:GLN:HE21	1.72	0.53
6:F:35:THR:HG21	6:F:42:THR:O	2.08	0.53
7:G:201:ILE:HG21	7:G:390:GLU:HG3	1.90	0.53
7:G:225:SER:HB3	7:G:314:CYS:O	2.09	0.53
8:H:420:LEU:HD23	8:H:421:PRO:N	2.24	0.53
3:K:409:SER:C	3:K:411:SER:H	2.17	0.53
4:L:491:ASN:HB2	4:L:494:GLU:OE1	2.09	0.53
5:M:471:GLY:HA2	5:M:474:GLN:OE1	2.08	0.53
6:N:183:ASP:N	6:N:183:ASP:OD1	2.41	0.53
7:O:206:GLY:O	7:O:379:ARG:HD2	2.07	0.53
1:a:1363:GLN:HA	1:a:1372:ILE:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1245:ILE:O	2:b:1246:PHE:CG	2.62	0.53
2:b:1249:LYS:O	6:f:1250:GLY:N	2.22	0.53
3:c:1457:ILE:HD11	3:c:1467:LEU:HD22	1.90	0.53
6:f:1002:SER:C	6:f:1003:LEU:HD22	2.32	0.53
6:f:1125:ALA:CA	6:f:1426:LEU:HD21	2.38	0.53
6:f:1345:PRO:O	6:f:1347:ILE:HG13	2.09	0.53
6:f:1352:GLY:C	6:f:1367:VAL:CG1	2.78	0.53
6:f:1501:PRO:O	6:f:1504:GLU:N	2.39	0.53
7:g:1241:ILE:HG12	7:g:1292:ILE:HG23	1.89	0.53
3:k:1422:ALA:HA	3:k:1475:HIS:CE1	2.44	0.53
4:l:1028:ALA:HB1	4:l:1078:LEU:HD11	1.89	0.53
4:l:1198:LYS:HD3	4:l:1198:LYS:H	1.74	0.53
4:l:1367:ARG:C	4:l:1369:ASN:N	2.67	0.53
5:m:1035:GLN:OE1	5:m:1036:GLY:HA3	2.06	0.53
5:m:1355:ALA:HB2	5:m:1362:ILE:HD11	1.90	0.53
6:n:1035:THR:HG22	6:n:1042:THR:H	1.72	0.53
6:n:1171:THR:N	6:n:1172:PRO:CD	2.71	0.53
8:p:1420:LEU:HD23	8:p:1421:PRO:N	2.24	0.53
1:A:63:THR:HG22	1:A:65:ASP:N	2.22	0.53
4:D:12:LYS:HZ2	7:G:73:LEU:CD2	2.22	0.53
6:F:36:ASN:HA	6:F:57:LYS:CD	2.38	0.53
6:F:105:ALA:HA	6:F:108:PHE:CD2	2.44	0.53
6:F:416:GLY:HA2	6:F:419:TYR:CD2	2.44	0.53
6:F:437:LYS:HE2	6:F:437:LYS:CA	2.33	0.53
8:H:27:GLN:O	8:H:31:SER:N	2.33	0.53
1:I:20:ILE:CB	1:I:25:ILE:HG12	2.38	0.53
2:J:30:GLY:CA	2:J:33:VAL:CG2	2.86	0.53
2:J:124:TYR:O	2:J:128:SER:HB2	2.08	0.53
3:K:422:ALA:HA	3:K:475:HIS:CE1	2.44	0.53
4:L:36:ARG:HE	4:L:98:ILE:CG2	2.18	0.53
4:L:423:ARG:HH12	4:L:473:HIS:CD2	2.26	0.53
6:N:83:GLN:CD	6:N:94:VAL:HG21	2.34	0.53
7:O:44:LEU:C	7:O:46:PRO:HD2	2.33	0.53
7:O:191:ARG:HB3	7:O:193:ASP:O	2.08	0.53
1:a:1412:THR:OG1	1:a:1520:PRO:HG3	2.08	0.53
2:b:1003:VAL:C	2:b:1005:ILE:HG12	2.32	0.53
2:b:1201:GLY:H	6:f:1086:ILE:HD12	1.72	0.53
4:d:1147:ARG:HG2	4:d:1148:GLU:H	1.74	0.53
6:f:1016:ASP:O	6:f:1019:LEU:HB2	2.08	0.53
7:g:1044:LEU:C	7:g:1046:PRO:HD2	2.33	0.53
2:j:1200:GLY:O	2:j:1371:GLY:N	2.28	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1245:ILE:O	2:j:1246:PHE:CB	2.56	0.53
2:j:1319:LEU:CD2	2:j:1357:SER:OG	2.57	0.53
4:l:1524:ILE:HG22	4:l:1524:ILE:O	2.07	0.53
6:n:1002:SER:C	6:n:1003:LEU:HD22	2.32	0.53
3:C:269:TRP:HH2	6:F:248:ASN:H	1.56	0.53
4:D:77:MET:CE	7:G:384:GLN:HB2	2.39	0.53
5:E:58:ALA:CB	5:E:127:SER:HB3	2.39	0.53
5:E:100:ILE:O	5:E:103:LEU:HB2	2.08	0.53
6:F:45:MET:HA	6:F:55:LEU:HA	1.91	0.53
1:I:44:LEU:HD21	1:I:103:ILE:HD12	1.89	0.53
2:J:43:ASP:O	6:N:530:CYS:HA	2.09	0.53
2:J:45:LEU:HD12	6:N:533:LEU:HD13	1.91	0.53
2:J:250:PHE:HA	6:N:250:GLY:C	2.32	0.53
3:K:413:SER:HB3	3:K:419:THR:HG21	1.91	0.53
4:L:249:GLU:O	7:O:259:VAL:HG12	2.09	0.53
5:M:58:ALA:CB	5:M:127:SER:HB3	2.39	0.53
5:M:227:GLN:O	5:M:407:PHE:HA	2.09	0.53
6:N:105:ALA:HA	6:N:108:PHE:CD2	2.44	0.53
1:a:1351:GLU:C	1:a:1353:SER:H	2.17	0.53
2:b:1245:ILE:O	2:b:1246:PHE:CB	2.56	0.53
3:c:1165:ILE:HA	3:c:1168:SER:HB3	1.91	0.53
3:c:1432:LYS:HA	3:c:1439:GLN:HE21	1.72	0.53
5:e:1310:ILE:HD11	5:e:1331:ALA:HB1	1.91	0.53
5:e:1471:GLY:HA2	5:e:1474:GLN:OE1	2.08	0.53
6:f:1183:ASP:OD1	6:f:1183:ASP:N	2.41	0.53
7:g:1191:ARG:HB3	7:g:1193:ASP:O	2.08	0.53
7:g:1377:LEU:O	7:g:1377:LEU:HD22	2.09	0.53
1:i:1045:GLY:C	1:i:1166:SER:HB2	2.33	0.53
2:j:1124:TYR:O	2:j:1128:SER:HB2	2.08	0.53
2:j:1513:ASN:O	2:j:1514:ILE:CD1	2.45	0.53
5:m:1100:ILE:O	5:m:1103:LEU:HB2	2.08	0.53
6:n:1035:THR:HG21	6:n:1042:THR:O	2.08	0.53
6:n:1036:ASN:HA	6:n:1057:LYS:CD	2.38	0.53
6:n:1345:PRO:O	6:n:1347:ILE:HG13	2.09	0.53
6:n:1458:LEU:HD12	6:n:1458:LEU:C	2.33	0.53
7:o:1044:LEU:C	7:o:1046:PRO:HD2	2.33	0.53
7:o:1075:VAL:HG11	7:o:1080:ALA:HB1	1.89	0.53
7:o:1413:GLY:CA	7:o:1491:ASN:HD21	2.22	0.53
2:B:376:THR:HA	2:B:379:GLU:HB2	1.91	0.53
4:D:246:PRO:HB2	4:D:250:ASN:CG	2.33	0.53
5:E:188:LEU:CB	5:E:197:HIS:HB2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:273:THR:CG2	5:E:364:PRO:CA	2.72	0.53
6:F:5:LEU:CA	6:F:6:LEU:HB2	2.34	0.53
6:F:15:ARG:O	6:F:18:ALA:HB3	2.08	0.53
6:F:433:LYS:O	6:F:436:ALA:C	2.52	0.53
1:I:498:ARG:O	1:I:499:ASN:CB	2.56	0.53
6:N:76:ILE:CG2	6:N:95:VAL:HG13	2.39	0.53
7:O:201:ILE:HG21	7:O:390:GLU:HG3	1.90	0.53
8:P:226:MET:HE1	8:P:328:GLU:HG2	1.91	0.53
1:a:1020:ILE:CB	1:a:1025:ILE:HG12	2.38	0.53
1:a:1501:GLY:HA3	1:a:1512:GLU:CG	2.39	0.53
2:b:1329:PHE:CD2	2:b:1329:PHE:O	2.53	0.53
3:c:1409:SER:C	3:c:1411:SER:H	2.17	0.53
5:e:1058:ALA:HB3	5:e:1127:SER:HB3	1.91	0.53
5:e:1512:VAL:O	9:e:1601:ADP:H2	1.92	0.53
6:f:1083:GLN:CD	6:f:1094:VAL:HG21	2.34	0.53
7:g:1455:GLU:HG3	7:g:1461:ALA:HB2	1.88	0.53
1:i:1458:ILE:HD12	1:i:1458:ILE:N	2.24	0.53
1:i:1501:GLY:HA3	1:i:1512:GLU:CG	2.39	0.53
2:j:1324:GLU:H	3:k:1311:LYS:HZ3	1.55	0.53
2:j:1422:ILE:HG21	2:j:1427:SER:CB	2.36	0.53
7:o:1127:LYS:C	7:o:1127:LYS:HD3	2.34	0.53
8:p:1252:CYS:HB2	8:p:1343:ARG:H	1.73	0.53
8:p:1288:MET:HE2	8:p:1313:LEU:HG	1.91	0.53
1:A:363:GLN:HA	1:A:372:ILE:HA	1.90	0.53
2:B:91:GLY:HA2	9:B:601:ADP:PA	2.48	0.53
4:D:263:ILE:O	4:D:263:ILE:HD13	2.09	0.53
4:D:448:GLU:C	4:D:451:PRO:HD2	2.34	0.53
4:D:524:ILE:HG23	7:G:52:LEU:HD22	1.91	0.53
5:E:58:ALA:HB3	5:E:127:SER:HB3	1.91	0.53
8:H:237:LYS:HB3	8:H:314:ASN:HB3	1.63	0.53
8:H:288:MET:HE2	8:H:313:LEU:HG	1.91	0.53
2:J:39:PRO:HD2	2:J:474:LEU:HD12	1.91	0.53
6:N:35:THR:HG21	6:N:42:THR:O	2.08	0.53
6:N:171:THR:N	6:N:172:PRO:CD	2.71	0.53
6:N:324:ASN:O	6:N:328:LEU:N	2.33	0.53
8:P:67:ASP:HB3	8:P:70:THR:OG1	2.08	0.53
1:a:1164:MET:HE3	1:a:1169:ILE:HB	1.91	0.53
1:a:1532:LEU:HD22	1:a:1536:VAL:HG23	1.90	0.53
2:b:1289:LEU:HD12	2:b:1289:LEU:O	2.08	0.53
4:d:1521:ILE:HG21	7:g:1052:LEU:H	1.73	0.53
5:e:1509:ASN:HB3	5:e:1521:ASP:CB	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1076:ILE:CG2	6:f:1095:VAL:HG13	2.39	0.53
2:j:1229:ALA:HB3	2:j:1339:GLU:O	2.07	0.53
6:n:1075:LEU:HD21	6:n:1523:ILE:HG23	1.89	0.53
7:o:1091:ASP:O	7:o:1095:GLY:CA	2.57	0.53
7:o:1225:SER:HB3	7:o:1314:CYS:O	2.09	0.53
2:B:32:LEU:CD1	6:F:532:GLU:CD	2.82	0.53
2:B:289:LEU:HD12	2:B:289:LEU:O	2.08	0.53
3:C:269:TRP:CZ3	6:F:247:VAL:HB	2.44	0.53
3:C:422:ALA:HA	3:C:475:HIS:CE1	2.44	0.53
4:D:491:ASN:HB2	4:D:494:GLU:OE1	2.09	0.53
6:F:167:THR:HB	6:F:169:VAL:H	1.66	0.53
6:F:171:THR:N	6:F:172:PRO:CD	2.71	0.53
6:F:195:GLU:CG	6:F:197:MET:SD	2.94	0.53
6:F:345:PRO:O	6:F:347:ILE:HG13	2.09	0.53
7:G:43:THR:HB	7:G:99:THR:CG2	2.40	0.53
1:I:541:ILE:HD13	5:M:73:ILE:HG13	1.90	0.53
1:I:544:MET:HG2	1:I:546:THR:HG23	1.90	0.53
5:M:61:ILE:O	5:M:61:ILE:HD13	2.08	0.53
6:N:276:LYS:O	6:N:279:ASP:N	2.42	0.53
6:N:345:PRO:O	6:N:347:ILE:HG13	2.09	0.53
9:N:601:ADP:C8	9:N:601:ADP:O2'	2.62	0.53
1:a:1351:GLU:C	1:a:1353:SER:N	2.66	0.53
2:b:1102:LEU:HD21	2:b:1124:TYR:HD2	1.74	0.53
5:e:1058:ALA:CB	5:e:1127:SER:HB3	2.39	0.53
6:f:1276:LYS:O	6:f:1279:ASP:N	2.43	0.53
6:f:1406:LEU:HB3	6:f:1407:LYS:NZ	2.24	0.53
8:h:1226:MET:HE1	8:h:1328:GLU:HG2	1.91	0.53
8:h:1420:LEU:HD23	8:h:1421:PRO:N	2.24	0.53
2:j:1004:GLN:N	2:j:1005:ILE:HG12	2.19	0.53
2:j:1045:LEU:HB2	6:n:1533:LEU:HB3	1.91	0.53
2:j:1072:PRO:HB3	3:k:1047:MET:CE	2.39	0.53
2:j:1198:ILE:O	2:j:1377:LEU:CD2	2.55	0.53
2:j:1245:ILE:O	2:j:1246:PHE:CG	2.62	0.53
2:j:1367:ILE:HG23	2:j:1367:ILE:O	2.08	0.53
2:j:1459:LEU:CD2	2:j:1472:LEU:HG	2.33	0.53
4:l:1241:ILE:HD13	4:l:1292:ILE:HG23	1.91	0.53
5:m:1058:ALA:CB	5:m:1127:SER:HB3	2.39	0.53
5:m:1273:THR:CG2	5:m:1364:PRO:CA	2.72	0.53
5:m:1373:LYS:HE2	6:n:1311:LYS:NZ	2.24	0.53
6:n:1406:LEU:HB3	6:n:1407:LYS:NZ	2.24	0.53
1:A:544:MET:HG2	1:A:546:THR:HG23	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:39:PRO:HD2	2:B:474:LEU:HD12	1.91	0.52
4:D:195:ARG:O	4:D:196:LEU:HD23	2.10	0.52
5:E:471:GLY:HA2	5:E:474:GLN:OE1	2.08	0.52
6:F:83:GLN:CD	6:F:94:VAL:HG21	2.34	0.52
6:F:458:LEU:HD12	6:F:458:LEU:C	2.33	0.52
7:G:307:PHE:CD1	7:G:312:ILE:HG23	2.44	0.52
2:J:64:LEU:HD23	2:J:67:ILE:HD12	1.91	0.52
2:J:263:LYS:HZ1	3:K:266:GLU:HB3	1.66	0.52
5:M:310:ILE:HD11	5:M:331:ALA:HB1	1.91	0.52
5:M:401:THR:C	5:M:402:LYS:CG	2.70	0.52
7:O:225:SER:HB3	7:O:314:CYS:O	2.09	0.52
7:O:377:LEU:O	7:O:377:LEU:HD22	2.09	0.52
8:P:252:CYS:HB2	8:P:343:ARG:H	1.73	0.52
2:b:1422:ILE:CB	2:b:1427:SER:CB	2.79	0.52
3:c:1104:LEU:CD1	3:c:1520:LEU:HD12	2.39	0.52
3:c:1250:LEU:CD1	3:c:1301:VAL:CG2	2.72	0.52
4:d:1110:LEU:CD1	4:d:1439:ILE:HG23	2.38	0.52
6:f:1143:LEU:CD1	6:f:1145:ASN:OD1	2.58	0.52
7:g:1291:ASN:C	7:g:1312:ILE:HG13	2.34	0.52
7:g:1420:VAL:CG2	7:g:1446:LEU:HD13	2.38	0.52
8:h:1354:LEU:HD23	8:h:1354:LEU:H	1.73	0.52
1:i:1498:ARG:O	1:i:1499:ASN:CB	2.57	0.52
3:k:1457:ILE:HD11	3:k:1467:LEU:HD22	1.90	0.52
4:l:1263:ILE:O	4:l:1263:ILE:HD13	2.09	0.52
6:n:1045:MET:HA	6:n:1055:LEU:HA	1.91	0.52
6:n:1105:ALA:HA	6:n:1108:PHE:CD2	2.44	0.52
6:n:1167:THR:OG1	6:n:1169:VAL:HB	2.09	0.52
6:n:1434:LEU:O	6:n:1438:GLY:HA2	2.08	0.52
8:p:1160:LEU:HA	8:p:1163:ILE:HG22	1.92	0.52
1:A:45:GLY:C	1:A:166:SER:HB2	2.33	0.52
1:A:498:ARG:O	1:A:499:ASN:CB	2.57	0.52
2:B:102:LEU:HD21	2:B:124:TYR:HD2	1.75	0.52
2:B:445:ALA:HB2	2:B:455:LEU:HD23	1.90	0.52
5:E:48:LYS:O	5:E:51:ILE:HG22	2.09	0.52
7:G:241:ILE:HG12	7:G:292:ILE:HG23	1.89	0.52
8:H:328:GLU:HG3	8:H:331:ARG:HH12	1.72	0.52
1:I:501:GLY:HA3	1:I:512:GLU:CG	2.39	0.52
2:J:106:ALA:HB1	2:J:509:LEU:HD11	1.91	0.52
4:L:310:ILE:HG22	4:L:312:VAL:HG23	1.92	0.52
5:M:100:ILE:O	5:M:103:LEU:HB2	2.08	0.52
6:N:45:MET:HA	6:N:55:LEU:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:167:THR:OG1	6:N:169:VAL:HB	2.09	0.52
6:N:231:ALA:O	6:N:351:SER:OG	2.22	0.52
8:P:423:ALA:HA	9:P:601:ADP:H2'	1.90	0.52
2:b:1153:LEU:HB3	2:b:1178:THR:HG22	1.92	0.52
2:b:1319:LEU:CD2	2:b:1357:SER:OG	2.57	0.52
4:d:1195:ARG:O	4:d:1196:LEU:HD23	2.10	0.52
4:d:1448:GLU:C	4:d:1451:PRO:HD2	2.34	0.52
5:e:1227:GLN:O	5:e:1407:PHE:HA	2.09	0.52
6:f:1167:THR:OG1	6:f:1169:VAL:HB	2.09	0.52
8:h:1006:PRO:N	4:l:1071:LEU:CB	2.73	0.52
2:j:1127:ALA:CB	2:j:1430:VAL:HG22	2.31	0.52
2:j:1295:GLU:OE1	6:n:1339:SER:HB3	2.08	0.52
2:j:1422:ILE:CB	2:j:1427:SER:CB	2.79	0.52
3:k:1320:VAL:O	3:k:1321:LYS:O	2.28	0.52
6:n:1076:ILE:CG2	6:n:1095:VAL:HG13	2.39	0.52
6:n:1416:GLY:HA2	6:n:1419:TYR:CD2	2.44	0.52
8:p:1024:ALA:CB	8:p:1531:ALA:O	2.56	0.52
2:B:88:VAL:HG13	2:B:393:GLN:NE2	2.21	0.52
5:E:74:LEU:HG	5:E:93:GLN:CB	2.39	0.52
5:E:84:THR:HG22	5:E:86:ASP:N	2.19	0.52
5:E:498:LEU:HD11	5:E:512:VAL:HG23	1.91	0.52
7:G:66:GLY:HA2	7:G:69:ILE:HG22	1.92	0.52
8:H:428:ILE:HD13	8:H:478:LEU:HD13	1.90	0.52
1:I:36:VAL:HG13	1:I:70:LEU:HD22	1.89	0.52
1:I:351:GLU:C	1:I:353:SER:N	2.66	0.52
4:L:241:ILE:HD13	4:L:292:ILE:HG23	1.92	0.52
6:N:129:SER:HB2	6:N:426:LEU:HD23	1.91	0.52
7:O:420:VAL:CG2	7:O:446:LEU:HD13	2.38	0.52
1:a:1431:ILE:HG13	1:a:1435:ASN:HD22	1.73	0.52
4:d:1310:ILE:HG22	4:d:1312:VAL:HG23	1.92	0.52
5:e:1355:ALA:HB2	5:e:1362:ILE:HD11	1.90	0.52
6:f:1353:LEU:O	6:f:1367:VAL:HG12	2.09	0.52
7:g:1174:ASN:ND2	7:g:1209:MET:SD	2.80	0.52
7:g:1225:SER:HB3	7:g:1314:CYS:O	2.09	0.52
8:h:1288:MET:HE2	8:h:1313:LEU:HG	1.91	0.52
2:j:1064:LEU:HD23	2:j:1067:ILE:HD12	1.91	0.52
2:j:1106:ALA:HB1	2:j:1509:LEU:HD11	1.91	0.52
4:l:1419:ILE:O	4:l:1423:ARG:HG3	2.10	0.52
6:n:1167:THR:HA	6:n:1168:GLU:CB	2.40	0.52
6:n:1433:LYS:O	6:n:1436:ALA:C	2.52	0.52
8:p:1138:THR:HG21	8:p:1452:PHE:CE1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:458:ILE:N	1:A:458:ILE:HD12	2.24	0.52
2:B:407:ALA:O	2:B:411:MET:HG2	2.10	0.52
4:D:198:LYS:HD3	4:D:198:LYS:H	1.74	0.52
6:F:76:ILE:CG2	6:F:95:VAL:HG13	2.39	0.52
6:F:129:SER:HB2	6:F:426:LEU:HD23	1.91	0.52
6:F:406:LEU:HB3	6:F:407:LYS:NZ	2.24	0.52
8:H:226:MET:HE1	8:H:328:GLU:HG2	1.91	0.52
2:J:102:LEU:O	2:J:105:GLU:HB2	2.10	0.52
2:J:514:ILE:HG22	2:J:515:ILE:N	2.24	0.52
3:K:320:VAL:CG1	3:K:324:ASP:HB3	2.40	0.52
4:L:69:ALA:O	8:P:15:LYS:HE2	2.09	0.52
4:L:72:HIS:CD2	8:P:15:LYS:HZ2	2.28	0.52
5:M:355:ALA:HB2	5:M:362:ILE:HD11	1.90	0.52
5:M:498:LEU:HD11	5:M:512:VAL:HG23	1.91	0.52
5:M:544:LEU:HD23	6:N:384:THR:CG2	2.40	0.52
6:N:171:THR:O	6:N:175:THR:OG1	2.24	0.52
6:N:433:LYS:O	6:N:436:ALA:C	2.52	0.52
8:P:463:LEU:HD11	9:P:601:ADP:H8	1.73	0.52
2:b:1102:LEU:O	2:b:1105:GLU:HB2	2.10	0.52
2:b:1445:ALA:HB2	2:b:1455:LEU:HD23	1.90	0.52
3:c:1320:VAL:O	3:c:1321:LYS:O	2.28	0.52
3:c:1457:ILE:HD13	3:c:1467:LEU:CD1	2.19	0.52
5:e:1048:LYS:O	5:e:1051:ILE:HG22	2.09	0.52
5:e:1100:ILE:O	5:e:1103:LEU:HB2	2.09	0.52
5:e:1186:THR:HG23	5:e:1187:SER:N	2.24	0.52
6:f:1143:LEU:HD13	6:f:1145:ASN:OD1	2.10	0.52
6:f:1488:TYR:O	6:f:1489:VAL:HB	2.10	0.52
8:h:1067:ASP:HB3	8:h:1070:THR:OG1	2.08	0.52
8:h:1138:THR:HG21	8:h:1452:PHE:CE1	2.45	0.52
8:h:1160:LEU:HA	8:h:1163:ILE:HG22	1.92	0.52
1:i:1351:GLU:C	1:i:1353:SER:N	2.66	0.52
2:j:1045:LEU:HB2	6:n:1533:LEU:HB2	1.91	0.52
2:j:1289:LEU:HD13	2:j:1294:PRO:HG3	1.90	0.52
5:m:1093:GLN:HA	5:m:1093:GLN:NE2	2.23	0.52
5:m:1186:THR:HG23	5:m:1187:SER:N	2.25	0.52
5:m:1227:GLN:O	5:m:1407:PHE:HA	2.09	0.52
6:n:1129:SER:HB2	6:n:1426:LEU:HD23	1.91	0.52
6:n:1352:GLY:C	6:n:1367:VAL:CG1	2.78	0.52
7:o:1291:ASN:C	7:o:1312:ILE:HG13	2.34	0.52
2:B:102:LEU:HD21	2:B:124:TYR:CD2	2.45	0.52
5:E:166:ASP:N	5:E:167:ASP:CB	2.66	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:186:THR:HG23	5:E:187:SER:N	2.24	0.52
7:G:516:LEU:HD13	7:G:517:ILE:H	1.75	0.52
8:H:54:ILE:HG13	8:H:64:ILE:CG1	2.15	0.52
8:H:160:LEU:HA	8:H:163:ILE:HG22	1.92	0.52
2:J:102:LEU:HD21	2:J:124:TYR:CD2	2.45	0.52
2:J:245:ILE:O	2:J:246:PHE:CG	2.62	0.52
2:J:319:LEU:HD23	2:J:319:LEU:C	2.35	0.52
2:J:319:LEU:CD2	2:J:357:SER:OG	2.57	0.52
5:M:48:LYS:O	5:M:51:ILE:HG22	2.09	0.52
5:M:58:ALA:HB3	5:M:127:SER:HB3	1.91	0.52
7:O:91:ASP:O	7:O:95:GLY:CA	2.57	0.52
8:P:138:THR:HG21	8:P:452:PHE:CE1	2.45	0.52
8:P:160:LEU:HA	8:P:163:ILE:HG22	1.92	0.52
2:b:1159:THR:HG21	2:b:1488:VAL:N	2.25	0.52
4:d:1094:THR:O	4:d:1098:ILE:HG12	2.10	0.52
2:j:1514:ILE:HG22	2:j:1515:ILE:N	2.24	0.52
3:k:1320:VAL:CG1	3:k:1324:ASP:HB3	2.40	0.52
4:l:1178:VAL:CG1	4:l:1401:ILE:HD11	2.40	0.52
4:l:1195:ARG:O	4:l:1196:LEU:HD23	2.10	0.52
4:l:1448:GLU:C	4:l:1451:PRO:HD2	2.34	0.52
5:m:1509:ASN:HB3	5:m:1521:ASP:CB	2.36	0.52
6:n:1143:LEU:CD1	6:n:1145:ASN:OD1	2.58	0.52
8:p:1226:MET:HE1	8:p:1328:GLU:HG2	1.91	0.52
2:B:106:ALA:HB1	2:B:509:LEU:HD11	1.91	0.52
3:C:320:VAL:CG1	3:C:324:ASP:HB3	2.40	0.52
3:C:341:GLU:OE1	8:H:281:GLU:OE1	2.28	0.52
3:C:413:SER:HB3	3:C:419:THR:HG21	1.91	0.52
5:E:37:ASN:HD22	6:N:114:HIS:CD2	2.27	0.52
4:L:85:GLN:NE2	4:L:507:ALA:HB2	2.25	0.52
4:L:195:ARG:O	4:L:196:LEU:HD23	2.10	0.52
4:L:263:ILE:O	4:L:263:ILE:HD13	2.09	0.52
4:L:448:GLU:C	4:L:451:PRO:HD2	2.34	0.52
6:N:436:ALA:HA	6:N:437:LYS:HE2	1.92	0.52
8:P:288:MET:HE2	8:P:313:LEU:HG	1.91	0.52
2:b:1064:LEU:HD23	2:b:1067:ILE:HD12	1.91	0.52
2:b:1102:LEU:HD21	2:b:1124:TYR:CD2	2.45	0.52
2:b:1231:ILE:HD13	2:b:1282:ASN:HB2	1.92	0.52
2:b:1319:LEU:HD23	2:b:1319:LEU:C	2.35	0.52
3:c:1320:VAL:CG1	3:c:1324:ASP:HB3	2.40	0.52
3:c:1413:SER:HB3	3:c:1419:THR:HG21	1.91	0.52
6:f:1056:THR:OG1	6:f:1061:VAL:HG11	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1167:THR:HA	6:f:1168:GLU:CB	2.40	0.52
1:i:1543:THR:O	5:m:1072:LYS:HB3	2.10	0.52
4:l:1007:SER:HA	7:o:1035:ALA:HB1	1.91	0.52
4:l:1310:ILE:HG22	4:l:1312:VAL:HG23	1.92	0.52
5:m:1373:LYS:HE2	6:n:1311:LYS:HZ3	1.74	0.52
5:m:1547:MET:SD	6:n:1387:ALA:HA	2.49	0.52
6:n:1424:ARG:HG2	6:n:1483:SER:CA	2.34	0.52
2:B:30:GLY:CA	2:B:33:VAL:CG2	2.86	0.52
2:B:153:LEU:HB3	2:B:178:THR:HG22	1.92	0.52
2:B:245:ILE:O	2:B:246:PHE:CB	2.56	0.52
3:C:184:LYS:HA	3:C:198:ILE:C	2.35	0.52
3:C:320:VAL:O	3:C:321:LYS:O	2.28	0.52
4:D:94:THR:O	4:D:98:ILE:HG12	2.10	0.52
4:D:135:LEU:HD11	4:D:411:ILE:HD11	1.92	0.52
4:D:292:ILE:HG13	4:D:293:LEU:CA	2.40	0.52
7:G:91:ASP:O	7:G:95:GLY:CA	2.57	0.52
7:G:243:SER:HB2	7:G:334:ILE:HD13	1.92	0.52
8:H:229:ASN:HA	8:H:368:VAL:HG22	1.91	0.52
1:I:226:CYS:SG	1:I:318:VAL:HG12	2.50	0.52
2:J:102:LEU:HD21	2:J:124:TYR:HD2	1.74	0.52
2:J:159:THR:HG21	2:J:488:VAL:N	2.25	0.52
2:J:376:THR:HA	2:J:379:GLU:HB2	1.91	0.52
2:J:492:LYS:H	2:J:492:LYS:HZ1	1.57	0.52
3:K:60:ASP:OD1	3:K:93:THR:HG21	2.10	0.52
6:N:275:LYS:O	6:N:276:LYS:C	2.52	0.52
7:O:307:PHE:CD1	7:O:312:ILE:HG23	2.44	0.52
7:O:516:LEU:CD2	7:O:516:LEU:O	2.46	0.52
1:a:1344:LEU:CD1	1:a:1345:GLU:H	2.23	0.52
1:a:1494:ARG:CB	1:a:1496:SER:H	2.21	0.52
1:a:1498:ARG:O	1:a:1499:ASN:CB	2.57	0.52
2:b:1004:GLN:N	2:b:1005:ILE:HG12	2.19	0.52
2:b:1376:THR:HA	2:b:1379:GLU:HB2	1.91	0.52
2:b:1459:LEU:CD2	2:b:1472:LEU:HG	2.33	0.52
4:d:1198:LYS:HD3	4:d:1198:LYS:H	1.74	0.52
6:f:1416:GLY:HA2	6:f:1419:TYR:CD2	2.44	0.52
6:f:1420:ILE:CB	6:f:1482:ASP:OD1	2.58	0.52
6:f:1433:LYS:O	6:f:1436:ALA:C	2.52	0.52
7:g:1043:THR:HB	7:g:1099:THR:CG2	2.39	0.52
7:g:1127:LYS:C	7:g:1127:LYS:HD3	2.34	0.52
7:g:1156:GLU:OE1	7:g:1157:LEU:HB2	2.10	0.52
7:g:1413:GLY:CA	7:g:1491:ASN:HD21	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:h:1229:ASN:HA	8:h:1368:VAL:HG22	1.90	0.52
1:i:1344:LEU:CD1	1:i:1345:GLU:H	2.23	0.52
1:i:1351:GLU:C	1:i:1353:SER:H	2.17	0.52
2:j:1102:LEU:HD21	2:j:1124:TYR:CD2	2.45	0.52
3:k:1184:LYS:HA	3:k:1198:ILE:C	2.35	0.52
5:m:1173:ASP:HB3	5:m:1437:SER:HB3	1.87	0.52
6:n:1420:ILE:CB	6:n:1482:ASP:OD1	2.58	0.52
7:o:1201:ILE:HG21	7:o:1390:GLU:HG3	1.90	0.52
7:o:1243:SER:HB2	7:o:1334:ILE:HD13	1.92	0.52
7:o:1377:LEU:O	7:o:1377:LEU:HD22	2.09	0.52
1:A:147:SER:OG	1:A:418:VAL:HB	2.10	0.52
1:A:344:LEU:CD1	1:A:345:GLU:H	2.23	0.52
2:B:64:LEU:HD23	2:B:67:ILE:HD12	1.91	0.52
2:B:68:PRO:HG2	6:F:536:ALA:HB2	1.92	0.52
2:B:245:ILE:O	2:B:246:PHE:CG	2.62	0.52
4:D:85:GLN:NE2	4:D:507:ALA:HB2	2.25	0.52
4:D:178:VAL:CG1	4:D:401:ILE:HD11	2.40	0.52
6:F:16:ASP:CA	6:F:19:LEU:HD12	2.28	0.52
6:F:420:ILE:CB	6:F:482:ASP:OD1	2.58	0.52
6:F:515:ASN:ND2	6:F:516:ALA:N	2.58	0.52
7:G:156:GLU:OE1	7:G:157:LEU:HB2	2.10	0.52
7:G:303:ALA:O	7:G:307:PHE:HD2	1.93	0.52
8:H:138:THR:HG21	8:H:452:PHE:CE1	2.45	0.52
2:J:231:ILE:HD13	2:J:282:ASN:HB2	1.92	0.52
2:J:256:ALA:HB1	3:K:266:GLU:OE2	2.10	0.52
2:J:295:GLU:HB2	6:N:337:GLN:CD	2.35	0.52
2:J:407:ALA:O	2:J:411:MET:HG2	2.10	0.52
3:K:184:LYS:HA	3:K:198:ILE:C	2.35	0.52
4:L:449:VAL:O	4:L:453:THR:HG23	2.10	0.52
5:M:74:LEU:HG	5:M:93:GLN:CB	2.39	0.52
6:N:246:GLU:CD	6:N:246:GLU:H	2.18	0.52
6:N:420:ILE:CB	6:N:482:ASP:OD1	2.58	0.52
2:b:1422:ILE:HG22	2:b:1424:GLY:H	1.75	0.52
3:c:1060:ASP:OD1	3:c:1093:THR:HG21	2.10	0.52
4:d:1263:ILE:O	4:d:1263:ILE:HD13	2.09	0.52
6:f:1105:ALA:HA	6:f:1108:PHE:CD2	2.44	0.52
6:f:1367:VAL:HG12	6:f:1369:GLU:O	2.10	0.52
1:i:1164:MET:HE3	1:i:1169:ILE:HB	1.91	0.52
2:j:1102:LEU:O	2:j:1105:GLU:HB2	2.10	0.52
4:l:1147:ARG:HG2	4:l:1148:GLU:H	1.74	0.52
4:l:1292:ILE:HG13	4:l:1293:LEU:CA	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:501:GLY:HA3	1:A:512:GLU:CG	2.39	0.52
2:B:102:LEU:O	2:B:105:GLU:HB2	2.10	0.52
2:B:514:ILE:HG22	2:B:515:ILE:N	2.24	0.52
3:C:165:ILE:HA	3:C:168:SER:HB3	1.91	0.52
4:D:241:ILE:HD13	4:D:292:ILE:HG23	1.91	0.52
6:F:57:LYS:NZ	6:F:57:LYS:O	2.40	0.52
6:F:137:LYS:O	6:F:138:ILE:HB	2.10	0.52
6:F:353:LEU:O	6:F:367:VAL:HG12	2.09	0.52
7:G:424:LEU:O	7:G:427:TYR:N	2.43	0.52
4:L:20:VAL:HG13	4:L:524:ILE:HD12	1.92	0.52
4:L:292:ILE:HG13	4:L:293:LEU:CA	2.40	0.52
4:L:521:ILE:CD1	7:O:62:ILE:HD12	2.36	0.52
6:N:36:ASN:HA	6:N:57:LYS:CD	2.38	0.52
6:N:143:LEU:CD1	6:N:145:ASN:OD1	2.58	0.52
6:N:342:ASP:O	6:N:345:PRO:HD3	2.10	0.52
6:N:367:VAL:HG12	6:N:369:GLU:O	2.10	0.52
6:N:488:TYR:O	6:N:489:VAL:HB	2.10	0.52
7:O:243:SER:HB2	7:O:334:ILE:HD13	1.92	0.52
7:O:303:ALA:O	7:O:307:PHE:HD2	1.92	0.52
2:b:1032:LEU:CD1	6:f:1532:GLU:OE2	2.58	0.52
2:b:1198:ILE:O	2:b:1377:LEU:CD2	2.55	0.52
2:b:1513:ASN:O	2:b:1514:ILE:CD1	2.46	0.52
2:b:1514:ILE:HG22	2:b:1515:ILE:N	2.24	0.52
4:d:1449:VAL:O	4:d:1453:THR:HG23	2.10	0.52
6:f:1057:LYS:NZ	6:f:1057:LYS:O	2.40	0.52
6:f:1138:ILE:O	6:f:1138:ILE:CG2	2.58	0.52
6:f:1515:ASN:HD22	6:f:1515:ASN:C	2.18	0.52
7:g:1091:ASP:O	7:g:1095:GLY:CA	2.57	0.52
7:g:1201:ILE:HG21	7:g:1390:GLU:HG3	1.90	0.52
7:g:1303:ALA:O	7:g:1307:PHE:HD2	1.93	0.52
1:i:1092:ARG:HG2	5:m:1388:THR:CB	2.40	0.52
1:i:1147:SER:OG	1:i:1418:VAL:HB	2.10	0.52
2:j:1319:LEU:HD23	2:j:1319:LEU:C	2.35	0.52
4:l:1135:LEU:HD11	4:l:1411:ILE:HD11	1.92	0.52
4:l:1449:VAL:O	4:l:1453:THR:HG23	2.10	0.52
5:m:1048:LYS:O	5:m:1051:ILE:HG22	2.09	0.52
6:n:1342:ASP:O	6:n:1345:PRO:HD3	2.10	0.52
7:o:1225:SER:O	7:o:1226:TYR:HB3	2.10	0.52
1:A:164:MET:HE3	1:A:169:ILE:HB	1.91	0.52
2:B:159:THR:HG21	2:B:488:VAL:N	2.25	0.52
4:D:419:ILE:O	4:D:423:ARG:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:143:LEU:HD13	6:F:145:ASN:CB	2.40	0.52
7:G:291:ASN:C	7:G:312:ILE:HG13	2.34	0.52
8:H:67:ASP:HB3	8:H:70:THR:OG1	2.08	0.52
8:H:243:LYS:HB3	8:H:244:LYS:CE	2.40	0.52
2:J:198:ILE:O	2:J:377:LEU:CD2	2.55	0.52
4:L:94:THR:O	4:L:98:ILE:HG12	2.10	0.52
4:L:419:ILE:O	4:L:423:ARG:HG3	2.10	0.52
6:N:416:GLY:HA2	6:N:419:TYR:CD2	2.44	0.52
7:O:516:LEU:HD13	7:O:517:ILE:H	1.75	0.52
2:b:1319:LEU:HD11	2:b:1355:LYS:O	2.10	0.52
3:c:1422:ALA:HA	3:c:1475:HIS:CE1	2.44	0.52
6:f:1439:LYS:N	6:f:1439:LYS:CD	2.67	0.52
7:g:1066:GLY:HA2	7:g:1069:ILE:HG22	1.91	0.52
7:g:1242:LEU:HB2	7:g:1293:VAL:HG12	1.92	0.52
7:g:1516:LEU:HD13	7:g:1517:ILE:H	1.75	0.52
8:h:1452:PHE:CE1	8:h:1456:PHE:HE2	2.28	0.52
2:j:1032:LEU:HG	6:n:1532:GLU:CD	2.35	0.52
3:k:1508:GLN:HG2	8:p:1215:GLY:HA2	1.92	0.52
1:A:549:PRO:HA	5:E:77:PRO:O	2.10	0.51
3:C:104:LEU:CD1	3:C:520:LEU:HD12	2.39	0.51
3:C:491:ILE:HD13	3:C:491:ILE:H	1.75	0.51
4:D:310:ILE:HG22	4:D:312:VAL:HG23	1.91	0.51
5:E:509:ASN:O	5:E:521:ASP:HA	2.09	0.51
6:F:92:THR:OG1	9:F:601:ADP:O2B	2.28	0.51
6:F:143:LEU:CD1	6:F:145:ASN:OD1	2.58	0.51
6:F:167:THR:OG1	6:F:169:VAL:HB	2.09	0.51
6:F:276:LYS:O	6:F:279:ASP:N	2.43	0.51
6:F:488:TYR:O	6:F:489:VAL:HG12	2.10	0.51
7:G:377:LEU:O	7:G:377:LEU:HD22	2.09	0.51
2:J:45:LEU:HB2	6:N:533:LEU:HB2	1.92	0.51
2:J:250:PHE:CA	6:N:250:GLY:O	2.56	0.51
4:L:226:PRO:CB	4:L:311:MET:HG2	2.40	0.51
6:N:201:HIS:HB3	6:N:381:LYS:HZ3	1.74	0.51
8:P:463:LEU:CD1	9:P:601:ADP:H8	2.23	0.51
1:a:1147:SER:OG	1:a:1418:VAL:HB	2.10	0.51
2:b:1242:LYS:HE3	2:b:1247:GLY:N	2.25	0.51
3:c:1250:LEU:N	3:c:1250:LEU:HD23	2.26	0.51
3:c:1491:ILE:HD13	3:c:1491:ILE:H	1.75	0.51
5:e:1076:SER:HB2	5:e:1079:GLY:H	1.75	0.51
5:e:1498:LEU:HD11	5:e:1512:VAL:HG23	1.91	0.51
6:f:1143:LEU:HD13	6:f:1145:ASN:CB	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g:1243:SER:HB2	7:g:1334:ILE:HD13	1.92	0.51
7:g:1292:ILE:HA	7:g:1313:PHE:O	2.10	0.51
2:j:1153:LEU:HB3	2:j:1178:THR:HG22	1.92	0.51
4:l:1523:ASP:O	7:o:1051:ILE:CG2	2.49	0.51
2:B:43:ASP:OD1	6:F:529:LEU:HD22	2.11	0.51
2:B:319:LEU:HD11	2:B:355:LYS:O	2.10	0.51
4:D:226:PRO:CB	4:D:311:MET:HG2	2.40	0.51
5:E:197:HIS:O	5:E:200:PHE:N	2.44	0.51
5:E:310:ILE:HD11	5:E:331:ALA:HB1	1.91	0.51
5:E:431:ARG:O	5:E:434:VAL:HG12	2.10	0.51
6:F:356:GLN:CB	6:F:365:THR:HG22	2.40	0.51
6:F:488:TYR:O	6:F:489:VAL:HB	2.10	0.51
2:J:153:LEU:HB3	2:J:178:THR:HG22	1.92	0.51
7:O:225:SER:O	7:O:226:TYR:HB3	2.10	0.51
7:O:242:LEU:HB2	7:O:293:VAL:HG12	1.93	0.51
3:c:1153:LYS:HD3	3:c:1500:TRP:CD1	2.46	0.51
4:d:1292:ILE:HG13	4:d:1293:LEU:CA	2.40	0.51
4:d:1419:ILE:O	4:d:1423:ARG:HG3	2.10	0.51
5:e:1074:LEU:HG	5:e:1093:GLN:CB	2.39	0.51
5:e:1509:ASN:O	5:e:1521:ASP:HA	2.09	0.51
6:f:1037:LEU:HB3	9:f:1601:ADP:O2A	2.09	0.51
6:f:1230:ASN:H	6:f:1353:LEU:HD23	1.76	0.51
8:h:1250:PHE:CE2	8:h:1299:ILE:HD12	2.45	0.51
3:k:1060:ASP:OD1	3:k:1093:THR:HG21	2.10	0.51
4:l:1219:ALA:HB1	4:l:1221:LYS:HZ3	1.75	0.51
4:l:1226:PRO:CB	4:l:1311:MET:HG2	2.40	0.51
4:l:1390:THR:O	4:l:1394:LEU:HD23	2.10	0.51
5:m:1058:ALA:HB3	5:m:1127:SER:HB3	1.91	0.51
5:m:1310:ILE:HD11	5:m:1331:ALA:HB1	1.91	0.51
5:m:1509:ASN:O	5:m:1521:ASP:HA	2.09	0.51
6:n:1056:THR:OG1	6:n:1061:VAL:HG11	2.10	0.51
6:n:1083:GLN:CD	6:n:1094:VAL:HG21	2.34	0.51
6:n:1353:LEU:O	6:n:1367:VAL:HG12	2.09	0.51
6:n:1424:ARG:HD3	6:n:1483:SER:OG	2.11	0.51
7:o:1516:LEU:HD13	7:o:1517:ILE:H	1.75	0.51
3:C:38:CYS:HA	3:C:44:MET:H	1.75	0.51
4:D:192:ASN:HB2	7:G:361:ARG:HH21	1.76	0.51
6:F:39:PRO:HA	6:F:160:THR:CB	2.40	0.51
6:F:342:ASP:O	6:F:345:PRO:HD3	2.10	0.51
6:F:515:ASN:HD22	6:F:515:ASN:C	2.18	0.51
3:K:49:LEU:HD21	3:K:55:LEU:HD23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:250:LEU:N	3:K:250:LEU:HD23	2.26	0.51
4:L:147:ARG:HG2	4:L:148:GLU:H	1.74	0.51
5:M:431:ARG:O	5:M:434:VAL:HG12	2.10	0.51
6:N:92:THR:HG23	10:N:602:BEF:F3	2.00	0.51
6:N:138:ILE:O	6:N:138:ILE:CG2	2.58	0.51
6:N:356:GLN:CB	6:N:365:THR:HG22	2.40	0.51
7:O:413:GLY:CA	7:O:491:ASN:HD21	2.22	0.51
8:P:304:GLY:N	8:P:323:VAL:HG11	2.26	0.51
2:b:1195:ILE:HG21	2:b:1381:GLU:HB2	1.92	0.51
2:b:1242:LYS:HB2	3:c:1269:TRP:CZ2	2.34	0.51
4:d:1085:GLN:NE2	4:d:1507:ALA:HB2	2.25	0.51
8:h:1031:SER:O	8:h:1035:ILE:HG12	2.11	0.51
1:i:1147:SER:HB3	1:i:1418:VAL:O	2.11	0.51
2:j:1039:PRO:HD2	2:j:1474:LEU:HD12	1.91	0.51
3:k:1250:LEU:N	3:k:1250:LEU:HD23	2.26	0.51
5:m:1197:HIS:O	5:m:1200:PHE:N	2.44	0.51
5:m:1556:ILE:HG23	6:n:1047:VAL:HB	1.92	0.51
6:n:1129:SER:O	6:n:1422:LEU:HD23	2.10	0.51
6:n:1151:LEU:CD2	6:n:1175:THR:HG23	2.41	0.51
6:n:1488:TYR:O	6:n:1489:VAL:HG12	2.10	0.51
7:o:1303:ALA:O	7:o:1307:PHE:HD2	1.93	0.51
2:B:242:LYS:HE2	2:B:247:GLY:H	1.69	0.51
5:E:76:SER:HB2	5:E:79:GLY:H	1.75	0.51
6:F:129:SER:O	6:F:422:LEU:HD23	2.10	0.51
8:H:163:ILE:CG2	8:H:179:SER:HB2	2.40	0.51
2:J:88:VAL:HG13	2:J:393:GLN:NE2	2.21	0.51
3:K:165:ILE:HA	3:K:168:SER:HB3	1.91	0.51
5:M:76:SER:HB2	5:M:79:GLY:H	1.75	0.51
5:M:186:THR:HG23	5:M:187:SER:N	2.24	0.51
6:N:488:TYR:O	6:N:489:VAL:HG12	2.10	0.51
2:b:1049:ALA:HB2	6:f:1536:ALA:O	2.10	0.51
6:f:1043:LEU:CD2	6:f:1161:LYS:HA	2.40	0.51
6:f:1129:SER:HB2	6:f:1426:LEU:HD23	1.91	0.51
6:f:1538:ARG:CG	6:f:1538:ARG:NH1	2.72	0.51
7:g:1307:PHE:CD1	7:g:1312:ILE:HG23	2.44	0.51
8:h:1304:GLY:N	8:h:1323:VAL:HG11	2.26	0.51
1:i:1221:GLY:HA3	1:i:1374:ILE:O	2.11	0.51
2:j:1102:LEU:HD21	2:j:1124:TYR:HD2	1.75	0.51
3:k:1049:LEU:HD21	3:k:1055:LEU:HD23	1.92	0.51
5:m:1074:LEU:HG	5:m:1093:GLN:CB	2.39	0.51
6:n:1143:LEU:HD13	6:n:1145:ASN:CB	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:n:1230:ASN:H	6:n:1353:LEU:HD23	1.76	0.51
6:n:1436:ALA:HA	6:n:1437:LYS:HE2	1.92	0.51
6:n:1515:ASN:ND2	6:n:1516:ALA:N	2.58	0.51
7:o:1307:PHE:CD1	7:o:1312:ILE:HG23	2.44	0.51
7:o:1459:PHE:HB3	7:o:1460:ASP:HB3	1.93	0.51
8:p:1304:GLY:N	8:p:1323:VAL:HG11	2.26	0.51
1:A:12:THR:HB	5:E:96:LEU:HA	1.91	0.51
1:A:351:GLU:C	1:A:353:SER:N	2.66	0.51
4:D:147:ARG:HG2	4:D:148:GLU:H	1.74	0.51
4:D:390:THR:O	4:D:394:LEU:HD23	2.10	0.51
5:E:341:PRO:O	5:E:343:VAL:HG23	2.11	0.51
6:F:92:THR:OG1	9:F:601:ADP:O3B	2.28	0.51
6:F:143:LEU:HD13	6:F:145:ASN:OD1	2.10	0.51
7:G:242:LEU:HB2	7:G:293:VAL:HG12	1.92	0.51
8:H:452:PHE:CE1	8:H:456:PHE:HE2	2.28	0.51
2:J:93:THR:HG21	9:J:601:ADP:O3B	2.10	0.51
2:J:319:LEU:HD11	2:J:355:LYS:O	2.10	0.51
5:M:166:ASP:N	5:M:167:ASP:CB	2.66	0.51
5:M:197:HIS:O	5:M:200:PHE:N	2.44	0.51
6:N:143:LEU:HD13	6:N:145:ASN:CG	2.36	0.51
6:N:424:ARG:HD3	6:N:483:SER:OG	2.11	0.51
6:N:515:ASN:HD22	6:N:515:ASN:C	2.18	0.51
7:O:291:ASN:C	7:O:312:ILE:HG13	2.34	0.51
8:P:31:SER:O	8:P:35:ILE:HG12	2.11	0.51
2:b:1046:LEU:HD11	2:b:1063:ILE:HA	1.93	0.51
2:b:1407:ALA:O	2:b:1411:MET:HG2	2.10	0.51
3:c:1049:LEU:HD21	3:c:1055:LEU:HD23	1.92	0.51
4:d:1241:ILE:HD13	4:d:1292:ILE:HG23	1.91	0.51
5:e:1197:HIS:O	5:e:1200:PHE:N	2.44	0.51
6:f:1129:SER:O	6:f:1422:LEU:HD23	2.10	0.51
6:f:1356:GLN:CB	6:f:1365:THR:HG22	2.40	0.51
7:g:1036:VAL:HG22	7:g:1083:LEU:HD13	1.93	0.51
3:k:1104:LEU:CD1	3:k:1520:LEU:HD12	2.39	0.51
3:k:1153:LYS:HD3	3:k:1500:TRP:CD1	2.46	0.51
3:k:1413:SER:HB3	3:k:1419:THR:HG21	1.91	0.51
6:n:1137:LYS:O	6:n:1138:ILE:HB	2.10	0.51
6:n:1276:LYS:O	6:n:1279:ASP:N	2.43	0.51
7:o:1066:GLY:HA2	7:o:1069:ILE:HG22	1.91	0.51
2:B:58:ASN:C	2:B:58:ASN:ND2	2.69	0.51
2:B:402:LEU:CD1	2:B:483:ARG:HE	2.24	0.51
2:B:408:GLU:CD	2:B:440:LEU:HD23	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:153:LYS:HD3	3:C:500:TRP:CD1	2.46	0.51
4:D:298:ASN:CB	4:D:299:ASP:HA	2.37	0.51
6:F:114:HIS:HA	5:M:37:ASN:HB2	1.92	0.51
6:F:231:ALA:O	6:F:351:SER:OG	2.22	0.51
6:F:354:VAL:HA	6:F:367:VAL:HA	1.93	0.51
7:G:225:SER:O	7:G:226:TYR:HB3	2.10	0.51
1:I:350:PHE:CD2	1:I:351:GLU:N	2.72	0.51
2:J:46:LEU:HD11	2:J:63:ILE:HA	1.93	0.51
3:K:104:LEU:CD1	3:K:520:LEU:HD12	2.39	0.51
3:K:320:VAL:O	3:K:321:LYS:O	2.28	0.51
5:M:509:ASN:O	5:M:521:ASP:HA	2.09	0.51
6:N:56:THR:OG1	6:N:61:VAL:HG11	2.10	0.51
6:N:143:LEU:HD13	6:N:145:ASN:CB	2.40	0.51
6:N:209:PHE:HB2	6:N:378:ILE:CB	2.40	0.51
8:P:15:LYS:HE3	8:P:16:GLN:N	2.26	0.51
8:P:163:ILE:CG2	8:P:179:SER:HB2	2.40	0.51
8:P:243:LYS:HB3	8:P:244:LYS:CE	2.41	0.51
3:c:1465:ILE:HD12	3:c:1465:ILE:N	2.26	0.51
5:e:1171:SER:HA	5:e:1438:ARG:HA	1.93	0.51
5:e:1431:ARG:O	5:e:1434:VAL:HG12	2.10	0.51
6:f:1424:ARG:HD3	6:f:1483:SER:OG	2.10	0.51
1:i:1540:ARG:O	5:m:1070:LEU:HB3	2.10	0.51
3:k:1038:CYS:HA	3:k:1044:MET:H	1.74	0.51
3:k:1491:ILE:HD13	3:k:1491:ILE:H	1.75	0.51
4:l:1030:SER:O	4:l:1033:ASP:HB2	2.11	0.51
4:l:1085:GLN:NE2	4:l:1507:ALA:HB2	2.25	0.51
6:n:1167:THR:HG22	6:n:1168:GLU:HB3	1.93	0.51
6:n:1246:GLU:CD	6:n:1246:GLU:H	2.18	0.51
6:n:1367:VAL:HG12	6:n:1369:GLU:O	2.10	0.51
1:A:226:CYS:SG	1:A:318:VAL:HG12	2.50	0.51
1:A:351:GLU:C	1:A:353:SER:H	2.17	0.51
2:B:442:THR:HG23	2:B:452:SER:CB	2.34	0.51
4:D:449:VAL:O	4:D:453:THR:HG23	2.10	0.51
5:E:55:ARG:NH2	5:E:134:LEU:HD13	2.26	0.51
5:E:227:GLN:O	5:E:407:PHE:HA	2.09	0.51
6:F:143:LEU:HD13	6:F:145:ASN:CG	2.36	0.51
7:G:292:ILE:HA	7:G:313:PHE:O	2.10	0.51
3:K:38:CYS:HA	3:K:44:MET:H	1.75	0.51
6:N:151:LEU:CD2	6:N:175:THR:HG23	2.41	0.51
6:N:167:THR:HG22	6:N:168:GLU:HB3	1.93	0.51
7:O:156:GLU:OE1	7:O:157:LEU:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:459:PHE:HB3	7:O:460:ASP:HB3	1.93	0.51
8:P:250:PHE:CE2	8:P:299:ILE:HD12	2.45	0.51
3:c:1038:CYS:HA	3:c:1044:MET:H	1.75	0.51
4:d:1020:VAL:HG13	4:d:1524:ILE:HD12	1.92	0.51
6:f:1342:ASP:O	6:f:1345:PRO:HD3	2.10	0.51
6:f:1484:ASP:OD1	6:f:1484:ASP:N	2.44	0.51
9:g:1601:ADP:H8	9:g:1601:ADP:O3'	1.94	0.51
2:j:1046:LEU:HD11	2:j:1063:ILE:HA	1.93	0.51
2:j:1058:ASN:ND2	2:j:1058:ASN:C	2.69	0.51
2:j:1407:ALA:O	2:j:1411:MET:HG2	2.10	0.51
4:l:1094:THR:O	4:l:1098:ILE:HG12	2.10	0.51
4:l:1221:LYS:HE2	4:l:1225:GLY:CA	2.41	0.51
5:m:1171:SER:HA	5:m:1438:ARG:HA	1.93	0.51
6:n:1143:LEU:HD13	6:n:1145:ASN:OD1	2.10	0.51
6:n:1354:VAL:HA	6:n:1367:VAL:HA	1.93	0.51
6:n:1356:GLN:CB	6:n:1365:THR:HG22	2.40	0.51
6:n:1437:LYS:HE2	6:n:1437:LYS:CA	2.33	0.51
8:p:1169:SER:HB2	9:p:1601:ADP:O1A	2.10	0.51
8:p:1243:LYS:HB3	8:p:1244:LYS:CE	2.41	0.51
2:B:375:GLN:HE22	6:F:75:LEU:HB2	1.75	0.51
3:C:60:ASP:OD1	3:C:93:THR:HG21	2.10	0.51
3:C:109:PRO:O	3:C:113:GLU:HG2	2.11	0.51
3:C:335:THR:CB	8:H:237:LYS:HE2	2.30	0.51
4:D:221:LYS:HE2	4:D:225:GLY:CA	2.41	0.51
6:F:167:THR:HG22	6:F:168:GLU:HB3	1.93	0.51
6:F:436:ALA:HA	6:F:437:LYS:HE2	1.92	0.51
1:I:147:SER:OG	1:I:418:VAL:HB	2.10	0.51
3:K:491:ILE:HD13	3:K:491:ILE:H	1.75	0.51
6:N:39:PRO:HA	6:N:160:THR:CB	2.41	0.51
6:N:143:LEU:HD13	6:N:145:ASN:OD1	2.10	0.51
6:N:230:ASN:H	6:N:353:LEU:HD23	1.76	0.51
6:N:354:VAL:HA	6:N:367:VAL:HA	1.93	0.51
6:N:437:LYS:HE2	6:N:437:LYS:CA	2.33	0.51
6:N:515:ASN:ND2	6:N:516:ALA:N	2.58	0.51
1:a:1221:GLY:HA3	1:a:1374:ILE:O	2.11	0.51
1:a:1540:ARG:HA	5:e:1070:LEU:HD22	1.91	0.51
5:e:1055:ARG:NH2	5:e:1134:LEU:HD13	2.26	0.51
6:f:1143:LEU:HD13	6:f:1145:ASN:CG	2.36	0.51
6:f:1436:ALA:HA	6:f:1437:LYS:HE2	1.92	0.51
6:f:1488:TYR:O	6:f:1489:VAL:HG12	2.10	0.51
1:i:1104:ILE:HG12	1:i:1458:ILE:HD11	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1164:LYS:O	2:j:1167:SER:N	2.40	0.51
2:j:1242:LYS:HE2	2:j:1247:GLY:N	2.26	0.51
2:j:1408:GLU:CD	2:j:1440:LEU:HD23	2.36	0.51
4:l:1041:PRO:HG2	9:l:1601:ADP:C5	2.46	0.51
6:n:1484:ASP:OD1	6:n:1484:ASP:N	2.44	0.51
6:n:1541:LEU:HB2	6:n:1542:LYS:CB	2.32	0.51
8:p:1031:SER:O	8:p:1035:ILE:HG12	2.11	0.51
2:B:319:LEU:HD23	2:B:319:LEU:C	2.35	0.51
5:E:483:LEU:HD11	9:E:601:ADP:H1'	1.92	0.51
6:F:367:VAL:HG12	6:F:369:GLU:O	2.10	0.51
8:H:304:GLY:N	8:H:323:VAL:HG11	2.26	0.51
1:I:104:ILE:HG12	1:I:458:ILE:HD11	1.93	0.51
1:I:221:GLY:HA3	1:I:374:ILE:O	2.11	0.51
1:I:351:GLU:C	1:I:353:SER:H	2.17	0.51
2:J:422:ILE:HG22	2:J:424:GLY:H	1.75	0.51
3:K:109:PRO:O	3:K:113:GLU:HG2	2.11	0.51
3:K:153:LYS:HD3	3:K:500:TRP:CD1	2.46	0.51
6:N:16:ASP:CA	6:N:19:LEU:HD12	2.28	0.51
6:N:129:SER:O	6:N:422:LEU:HD23	2.10	0.51
8:P:29:ILE:O	8:P:32:ILE:HG22	2.11	0.51
1:a:1012:THR:HB	5:e:1096:LEU:HA	1.93	0.51
1:a:1273:ILE:HG21	5:e:1295:TYR:CE2	2.45	0.51
3:c:1117:HIS:HE1	8:h:1050:GLY:O	1.94	0.51
3:c:1475:HIS:O	3:c:1478:GLY:O	2.28	0.51
4:d:1030:SER:O	4:d:1033:ASP:HB2	2.11	0.51
6:f:1036:ASN:HA	6:f:1057:LYS:CD	2.38	0.51
6:f:1151:LEU:CD2	6:f:1175:THR:HG23	2.41	0.51
7:g:1304:THR:HA	7:g:1307:PHE:CE2	2.46	0.51
2:j:1271:ASN:ND2	2:j:1328:THR:OG1	2.44	0.51
4:l:1077:MET:CE	7:o:1384:GLN:HB2	2.40	0.51
7:o:1062:ILE:O	7:o:1063:SER:HB3	2.11	0.51
7:o:1115:PHE:CD1	7:o:1437:MET:HB3	2.46	0.51
8:p:1029:ILE:O	8:p:1032:ILE:HG22	2.11	0.51
1:A:159:ILE:HD12	1:A:412:THR:HG21	1.93	0.51
1:A:351:GLU:O	1:A:353:SER:N	2.44	0.51
3:C:269:TRP:HZ3	6:F:247:VAL:HB	1.76	0.51
5:E:93:GLN:NE2	5:E:93:GLN:HA	2.23	0.51
5:E:450:MET:HE3	5:E:454:VAL:HG23	1.93	0.51
6:F:151:LEU:CD2	6:F:175:THR:HG23	2.41	0.51
6:F:230:ASN:H	6:F:353:LEU:HD23	1.76	0.51
1:I:164:MET:HE3	1:I:169:ILE:HB	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:390:THR:O	4:L:394:LEU:HD23	2.10	0.51
4:L:450:ILE:HB	4:L:451:PRO:HD3	1.93	0.51
5:M:90:ILE:O	5:M:94:MET:HG2	2.11	0.51
5:M:513:ASP:OD2	5:M:525:LEU:HD13	2.11	0.51
7:O:62:ILE:O	7:O:63:SER:HB3	2.11	0.51
7:O:292:ILE:HA	7:O:313:PHE:O	2.10	0.51
8:P:457:GLU:C	8:P:460:PRO:HD2	2.36	0.51
1:a:1159:ILE:HD12	1:a:1412:THR:HG21	1.93	0.51
1:a:1226:CYS:SG	1:a:1318:VAL:HG12	2.50	0.51
4:d:1418:GLU:HG3	4:d:1447:LEU:O	2.11	0.51
6:f:1039:PRO:HA	6:f:1160:THR:CB	2.40	0.51
6:f:1137:LYS:O	6:f:1138:ILE:HB	2.10	0.51
6:f:1209:PHE:HB2	6:f:1378:ILE:CB	2.40	0.51
6:f:1437:LYS:HE2	6:f:1437:LYS:CA	2.33	0.51
7:g:1062:ILE:O	7:g:1063:SER:HB3	2.11	0.51
8:h:1015:LYS:HE3	8:h:1016:GLN:N	2.26	0.51
8:h:1131:TYR:HD2	8:h:1452:PHE:CD2	2.24	0.51
2:j:1043:ASP:OD1	6:n:1529:LEU:HD22	2.11	0.51
2:j:1049:ALA:HB1	6:n:1538:ARG:HB2	1.93	0.51
3:k:1165:ILE:HA	3:k:1168:SER:HB3	1.91	0.51
3:k:1242:ARG:CB	3:k:1292:PRO:HA	2.42	0.51
6:n:1143:LEU:HD13	6:n:1145:ASN:CG	2.36	0.51
8:p:1015:LYS:HE3	8:p:1016:GLN:N	2.26	0.51
8:p:1452:PHE:CE1	8:p:1456:PHE:HE2	2.28	0.51
2:B:46:LEU:HD11	2:B:63:ILE:HA	1.93	0.50
3:C:242:ARG:CB	3:C:292:PRO:HA	2.42	0.50
6:F:56:THR:OG1	6:F:61:VAL:HG11	2.10	0.50
6:F:90:GLY:O	6:F:94:VAL:CG2	2.34	0.50
6:F:424:ARG:HD3	6:F:483:SER:OG	2.11	0.50
6:F:433:LYS:O	6:F:436:ALA:O	2.30	0.50
8:H:457:GLU:C	8:H:460:PRO:HD2	2.36	0.50
2:J:46:LEU:HD11	2:J:63:ILE:HD12	1.93	0.50
2:J:242:LYS:HE3	2:J:247:GLY:N	2.25	0.50
2:J:271:ASN:ND2	2:J:328:THR:OG1	2.44	0.50
2:J:408:GLU:CD	2:J:440:LEU:HD23	2.36	0.50
4:L:135:LEU:HD11	4:L:411:ILE:HD11	1.92	0.50
4:L:198:LYS:HD3	4:L:198:LYS:H	1.74	0.50
4:L:229:LYS:CB	4:L:232:ALA:HB2	2.42	0.50
6:N:433:LYS:O	6:N:436:ALA:O	2.30	0.50
6:N:484:ASP:N	6:N:484:ASP:OD1	2.44	0.50
7:O:66:GLY:HA2	7:O:69:ILE:HG22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:115:PHE:CD1	7:O:437:MET:HB3	2.46	0.50
8:P:452:PHE:CE1	8:P:456:PHE:HE2	2.28	0.50
2:b:1088:VAL:HG13	2:b:1393:GLN:NE2	2.21	0.50
2:b:1490:SER:HB2	2:b:1492:LYS:NZ	2.26	0.50
3:c:1109:PRO:O	3:c:1113:GLU:HG2	2.11	0.50
4:d:1178:VAL:CG1	4:d:1401:ILE:HD11	2.40	0.50
5:e:1513:ASP:OD2	5:e:1525:LEU:HD13	2.11	0.50
6:f:1433:LYS:O	6:f:1436:ALA:O	2.29	0.50
6:f:1515:ASN:ND2	6:f:1516:ALA:N	2.58	0.50
8:h:1049:CYS:O	8:h:1466:THR:CB	2.57	0.50
8:h:1226:MET:HA	8:h:1383:THR:OG1	2.11	0.50
1:i:1226:CYS:SG	1:i:1318:VAL:HG12	2.50	0.50
2:j:1046:LEU:HD11	2:j:1063:ILE:HD12	1.93	0.50
4:l:1009:ALA:HB1	7:o:1076:VAL:H	1.74	0.50
4:l:1020:VAL:HG13	4:l:1524:ILE:HD12	1.92	0.50
4:l:1239:PHE:C	4:l:1290:LYS:HG3	2.36	0.50
6:n:1039:PRO:HA	6:n:1160:THR:CB	2.40	0.50
6:n:1488:TYR:O	6:n:1489:VAL:HB	2.10	0.50
7:o:1346:LEU:H	7:o:1346:LEU:HD23	1.76	0.50
4:D:20:VAL:HG13	4:D:524:ILE:HD12	1.92	0.50
4:D:30:SER:O	4:D:33:ASP:HB2	2.11	0.50
4:D:469:LEU:C	4:D:471:SER:H	2.19	0.50
5:E:513:ASP:OD2	5:E:525:LEU:HD13	2.11	0.50
6:F:484:ASP:N	6:F:484:ASP:OD1	2.44	0.50
8:H:226:MET:HA	8:H:383:THR:OG1	2.11	0.50
1:I:351:GLU:O	1:I:353:SER:N	2.44	0.50
2:J:3:VAL:HB	2:J:4:GLN:OE1	2.12	0.50
3:K:242:ARG:CB	3:K:292:PRO:HA	2.42	0.50
5:M:341:PRO:O	5:M:343:VAL:HG23	2.11	0.50
6:N:137:LYS:O	6:N:138:ILE:HB	2.10	0.50
6:N:353:LEU:O	6:N:367:VAL:HG12	2.09	0.50
1:a:1161:LYS:HA	1:a:1164:MET:HG2	1.93	0.50
2:b:1408:GLU:CD	2:b:1440:LEU:HD23	2.36	0.50
3:c:1184:LYS:HA	3:c:1198:ILE:C	2.35	0.50
5:e:1090:ILE:O	5:e:1094:MET:HG2	2.11	0.50
5:e:1273:THR:O	5:e:1274:CYS:CB	2.59	0.50
6:f:1167:THR:HG22	6:f:1168:GLU:HB3	1.93	0.50
6:f:1436:ALA:HA	6:f:1437:LYS:CE	2.42	0.50
7:g:1115:PHE:CD1	7:g:1437:MET:HB3	2.46	0.50
7:g:1225:SER:O	7:g:1226:TYR:HB3	2.10	0.50
1:i:1379:LYS:N	1:i:1379:LYS:HD2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1042:MET:HE3	6:n:1529:LEU:O	2.12	0.50
2:j:1442:THR:HG23	2:j:1452:SER:CB	2.34	0.50
3:k:1465:ILE:HD12	3:k:1465:ILE:N	2.26	0.50
4:l:1469:LEU:C	4:l:1471:SER:H	2.19	0.50
6:n:1353:LEU:HB2	6:n:1368:THR:HG1	1.76	0.50
6:n:1433:LYS:O	6:n:1436:ALA:O	2.30	0.50
6:n:1489:VAL:O	6:n:1489:VAL:HG13	2.11	0.50
7:o:1156:GLU:OE1	7:o:1157:LEU:HB2	2.10	0.50
7:o:1292:ILE:HA	7:o:1313:PHE:O	2.10	0.50
2:B:34:LYS:O	2:B:37:LEU:HG	2.12	0.50
2:B:490:SER:HB2	2:B:492:LYS:NZ	2.26	0.50
4:D:38:SER:HB3	4:D:46:LYS:HZ2	1.76	0.50
4:D:115:ILE:HG21	4:D:439:ILE:HG13	1.94	0.50
6:F:246:GLU:CD	6:F:246:GLU:H	2.18	0.50
4:L:418:GLU:HG3	4:L:447:LEU:O	2.11	0.50
5:M:88:ALA:CB	5:M:119:THR:HB	2.29	0.50
5:M:556:ILE:HG23	6:N:47:VAL:HB	1.93	0.50
6:N:105:ALA:C	6:N:107:ARG:N	2.67	0.50
6:N:440:THR:O	6:N:444:ILE:HG12	2.12	0.50
7:O:346:LEU:HD23	7:O:346:LEU:H	1.76	0.50
7:O:396:ALA:O	7:O:397:ILE:C	2.55	0.50
8:P:31:SER:CB	8:P:79:HIS:HE1	2.24	0.50
8:P:287:MET:O	8:P:291:ILE:HG12	2.12	0.50
1:a:1147:SER:HB3	1:a:1418:VAL:O	2.11	0.50
2:b:1245:ILE:O	2:b:1246:PHE:HD2	1.87	0.50
2:b:1271:ASN:ND2	2:b:1328:THR:OG1	2.44	0.50
4:d:1115:ILE:HG21	4:d:1439:ILE:HG13	1.94	0.50
4:d:1390:THR:O	4:d:1394:LEU:HD23	2.10	0.50
6:f:1246:GLU:CD	6:f:1246:GLU:H	2.18	0.50
6:f:1440:THR:O	6:f:1444:ILE:HG12	2.12	0.50
7:g:1057:ASN:O	7:g:1058:GLN:NE2	2.45	0.50
8:h:1243:LYS:HB3	8:h:1244:LYS:CE	2.41	0.50
1:i:1129:PHE:HB3	1:i:1532:LEU:HD21	1.93	0.50
1:i:1350:PHE:HE2	1:i:1354:TYR:CB	2.16	0.50
1:i:1351:GLU:O	1:i:1353:SER:N	2.44	0.50
2:j:1159:THR:HG21	2:j:1488:VAL:N	2.25	0.50
2:j:1195:ILE:HG21	2:j:1381:GLU:HB2	1.93	0.50
2:j:1319:LEU:HD11	2:j:1355:LYS:O	2.10	0.50
4:l:1521:ILE:CB	7:o:1050:ASP:O	2.59	0.50
5:m:1273:THR:O	5:m:1274:CYS:CB	2.59	0.50
5:m:1364:PRO:O	5:m:1365:ARG:CB	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:n:1124:ILE:HB	6:n:1444:ILE:HD12	1.94	0.50
6:n:1436:ALA:HA	6:n:1437:LYS:CE	2.42	0.50
6:n:1501:PRO:O	6:n:1504:GLU:N	2.39	0.50
1:A:221:GLY:HA3	1:A:374:ILE:O	2.11	0.50
2:B:3:VAL:HB	2:B:4:GLN:OE1	2.12	0.50
2:B:367:ILE:HG23	2:B:367:ILE:O	2.11	0.50
5:E:273:THR:O	5:E:274:CYS:CB	2.59	0.50
6:F:105:ALA:C	6:F:107:ARG:N	2.67	0.50
6:F:541:LEU:HB3	6:F:543:GLU:N	2.26	0.50
8:H:49:CYS:O	8:H:466:THR:CB	2.57	0.50
1:I:379:LYS:HD2	1:I:379:LYS:N	2.26	0.50
2:J:58:ASN:C	2:J:58:ASN:ND2	2.69	0.50
3:K:465:ILE:N	3:K:465:ILE:HD12	2.26	0.50
3:K:475:HIS:O	3:K:478:GLY:O	2.28	0.50
4:L:198:LYS:HD3	4:L:198:LYS:N	2.27	0.50
5:M:131:ASP:O	5:M:134:LEU:HB3	2.12	0.50
5:M:364:PRO:O	5:M:365:ARG:CB	2.59	0.50
6:N:406:LEU:HB3	6:N:407:LYS:NZ	2.24	0.50
6:N:538:ARG:CG	6:N:538:ARG:NH1	2.72	0.50
7:O:171:ILE:O	7:O:171:ILE:HG22	2.12	0.50
1:a:1350:PHE:CD2	1:a:1351:GLU:N	2.72	0.50
2:b:1242:LYS:HE2	2:b:1247:GLY:N	2.26	0.50
4:d:1229:LYS:CB	4:d:1232:ALA:HB2	2.42	0.50
5:e:1364:PRO:O	5:e:1365:ARG:CB	2.59	0.50
6:f:1114:HIS:CD2	5:m:1037:ASN:HD22	2.29	0.50
6:f:1232:TYR:HA	6:f:1351:SER:OG	2.12	0.50
6:f:1409:LYS:HD3	6:f:1409:LYS:N	2.16	0.50
6:f:1489:VAL:O	6:f:1489:VAL:HG13	2.11	0.50
8:h:1301:ALA:O	8:h:1323:VAL:HA	2.11	0.50
1:i:1077:HIS:CG	1:i:1078:PRO:HD2	2.47	0.50
1:i:1159:ILE:HD12	1:i:1412:THR:HG21	1.93	0.50
2:j:1003:VAL:HB	2:j:1004:GLN:OE1	2.12	0.50
4:l:1198:LYS:HD3	4:l:1198:LYS:N	2.27	0.50
5:m:1431:ARG:O	5:m:1434:VAL:HG12	2.10	0.50
5:m:1535:LYS:O	5:m:1539:LEU:HG	2.11	0.50
7:o:1057:ASN:O	7:o:1058:GLN:NE2	2.45	0.50
8:p:1287:MET:O	8:p:1291:ILE:HG12	2.12	0.50
1:A:147:SER:HB3	1:A:418:VAL:O	2.11	0.50
1:A:161:LYS:HA	1:A:164:MET:HG2	1.93	0.50
1:A:205:VAL:C	1:A:206:LEU:HD23	2.36	0.50
1:A:379:LYS:HD2	1:A:379:LYS:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:475:HIS:O	3:C:478:GLY:O	2.28	0.50
4:D:239:PHE:C	4:D:290:LYS:HG3	2.36	0.50
4:D:450:ILE:HB	4:D:451:PRO:HD3	1.93	0.50
5:E:171:SER:HA	5:E:438:ARG:HA	1.93	0.50
5:E:210:ASN:HD22	5:E:210:ASN:N	2.08	0.50
5:E:364:PRO:O	5:E:365:ARG:CB	2.59	0.50
6:F:440:THR:O	6:F:444:ILE:HG12	2.12	0.50
1:I:147:SER:HB3	1:I:418:VAL:O	2.11	0.50
1:I:159:ILE:HD12	1:I:412:THR:HG21	1.93	0.50
4:L:239:PHE:C	4:L:290:LYS:HG3	2.36	0.50
5:M:55:ARG:NH2	5:M:134:LEU:HD13	2.26	0.50
6:N:124:ILE:HB	6:N:444:ILE:HD12	1.94	0.50
6:N:167:THR:HA	6:N:168:GLU:CB	2.40	0.50
6:N:489:VAL:O	6:N:489:VAL:HG13	2.11	0.50
1:a:1077:HIS:CG	1:a:1078:PRO:HD2	2.47	0.50
1:a:1205:VAL:C	1:a:1206:LEU:HD23	2.36	0.50
2:b:1106:ALA:HB1	2:b:1509:LEU:HD11	1.91	0.50
5:e:1341:PRO:O	5:e:1343:VAL:HG23	2.11	0.50
6:f:1406:LEU:O	6:f:1406:LEU:HD23	2.12	0.50
7:g:1455:GLU:CG	7:g:1461:ALA:HB3	2.42	0.50
1:i:1121:HIS:CE1	5:m:1068:ARG:HG3	2.46	0.50
2:j:1131:ALA:HB2	2:j:1415:VAL:CG2	2.42	0.50
4:l:1418:GLU:HG3	4:l:1447:LEU:O	2.11	0.50
6:n:1515:ASN:HD22	6:n:1515:ASN:C	2.18	0.50
8:p:1226:MET:HA	8:p:1383:THR:OG1	2.11	0.50
8:p:1250:PHE:CE2	8:p:1299:ILE:HD12	2.45	0.50
8:p:1457:GLU:C	8:p:1460:PRO:HD2	2.36	0.50
2:B:46:LEU:HD11	2:B:63:ILE:HD12	1.93	0.50
2:B:271:ASN:ND2	2:B:328:THR:OG1	2.44	0.50
3:C:250:LEU:N	3:C:250:LEU:HD23	2.26	0.50
3:C:465:ILE:N	3:C:465:ILE:HD12	2.26	0.50
6:F:108:PHE:C	6:F:108:PHE:CD1	2.90	0.50
6:F:209:PHE:HB2	6:F:378:ILE:CB	2.40	0.50
7:G:455:GLU:CG	7:G:461:ALA:HB3	2.42	0.50
7:G:459:PHE:HB3	7:G:460:ASP:HB3	1.93	0.50
1:I:129:PHE:HB3	1:I:532:LEU:HD21	1.93	0.50
1:I:205:VAL:C	1:I:206:LEU:HD23	2.36	0.50
2:J:422:ILE:O	2:J:423:ASP:OD2	2.30	0.50
2:J:464:TYR:HA	2:J:467:ILE:CD1	2.42	0.50
4:L:178:VAL:CG1	4:L:401:ILE:HD11	2.40	0.50
6:N:436:ALA:HA	6:N:437:LYS:CE	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1034:LYS:O	2:b:1037:LEU:HG	2.12	0.50
2:b:1131:ALA:HB2	2:b:1415:VAL:CG2	2.42	0.50
2:b:1164:LYS:O	2:b:1167:SER:N	2.40	0.50
2:b:1263:LYS:HZ1	3:c:1266:GLU:CB	2.24	0.50
4:d:1071:LEU:CA	8:p:1006:PRO:HG2	2.41	0.50
4:d:1221:LYS:HE2	4:d:1225:GLY:CA	2.41	0.50
4:d:1239:PHE:C	4:d:1290:LYS:HG3	2.36	0.50
5:e:1131:ASP:O	5:e:1134:LEU:HB3	2.12	0.50
6:f:1036:ASN:HB3	6:f:1057:LYS:HZ3	0.72	0.50
6:f:1354:VAL:HA	6:f:1367:VAL:HA	1.93	0.50
7:g:1346:LEU:HD23	7:g:1346:LEU:H	1.76	0.50
8:h:1007:GLN:CB	4:l:1071:LEU:O	2.59	0.50
8:h:1072:LEU:HA	8:h:1075:LEU:HB2	1.94	0.50
8:h:1457:GLU:C	8:h:1460:PRO:HD2	2.36	0.50
3:k:1109:PRO:O	3:k:1113:GLU:HG2	2.11	0.50
3:k:1119:VAL:HG21	8:p:1049:CYS:HA	1.94	0.50
3:k:1475:HIS:O	3:k:1478:GLY:O	2.28	0.50
4:l:1450:ILE:HB	4:l:1451:PRO:HD3	1.93	0.50
5:m:1513:ASP:OD2	5:m:1525:LEU:HD13	2.11	0.50
6:n:1193:MET:HB3	6:n:1330:LEU:HD12	1.94	0.50
6:n:1209:PHE:HB2	6:n:1378:ILE:CB	2.40	0.50
7:o:1143:LEU:HD22	7:o:1411:ALA:HB2	1.94	0.50
2:B:422:ILE:O	2:B:423:ASP:OD2	2.30	0.50
2:B:507:VAL:HG13	3:C:57:LEU:HD12	1.94	0.50
3:C:49:LEU:HD21	3:C:55:LEU:HD23	1.93	0.50
4:D:60:ASP:HB3	4:D:63:THR:OG1	2.12	0.50
5:E:90:ILE:O	5:E:94:MET:HG2	2.11	0.50
6:F:167:THR:HA	6:F:168:GLU:CB	2.40	0.50
6:F:387:ALA:O	6:F:391:THR:HG23	2.12	0.50
6:F:411:ILE:CG2	6:F:412:ILE:H	2.16	0.50
7:G:191:ARG:NH1	7:G:192:ASN:HB2	2.27	0.50
8:H:31:SER:CB	8:H:79:HIS:HE1	2.25	0.50
8:H:31:SER:O	8:H:35:ILE:HG12	2.11	0.50
8:H:79:HIS:ND1	8:H:81:ALA:HB3	2.27	0.50
1:I:344:LEU:CD1	1:I:345:GLU:H	2.23	0.50
5:M:93:GLN:NE2	5:M:93:GLN:HA	2.23	0.50
5:M:535:LYS:O	5:M:539:LEU:HG	2.11	0.50
6:N:193:MET:HB3	6:N:330:LEU:HD12	1.94	0.50
6:N:352:GLY:C	6:N:367:VAL:CG1	2.78	0.50
6:N:409:LYS:HD3	6:N:409:LYS:N	2.16	0.50
6:N:430:ASN:O	6:N:433:LYS:CA	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1351:GLU:O	1:a:1353:SER:N	2.44	0.50
4:d:1135:LEU:HD11	4:d:1411:ILE:HD11	1.92	0.50
6:f:1035:THR:HG21	6:f:1042:THR:O	2.08	0.50
6:f:1213:LEU:HD23	6:f:1377:THR:CG2	2.40	0.50
6:f:1387:ALA:O	6:f:1391:THR:HG23	2.12	0.50
7:g:1459:PHE:HB3	7:g:1460:ASP:HB3	1.93	0.50
8:h:1079:HIS:ND1	8:h:1081:ALA:HB3	2.27	0.50
1:i:1132:ALA:HB2	1:i:1448:ILE:HD13	1.94	0.50
2:j:1231:ILE:HD13	2:j:1282:ASN:HB2	1.92	0.50
3:k:1009:ASN:HB2	8:p:1078:VAL:HG13	1.92	0.50
5:m:1055:ARG:NH2	5:m:1134:LEU:HD13	2.26	0.50
5:m:1076:SER:HB2	5:m:1079:GLY:H	1.75	0.50
5:m:1090:ILE:O	5:m:1094:MET:HG2	2.11	0.50
5:m:1341:PRO:O	5:m:1343:VAL:HG23	2.11	0.50
6:n:1440:THR:O	6:n:1444:ILE:HG12	2.12	0.50
7:o:1023:LYS:HA	7:o:1026:ILE:HG22	1.93	0.50
8:p:1083:LYS:O	8:p:1087:MET:HG2	2.12	0.50
1:A:104:ILE:HG12	1:A:458:ILE:HD11	1.93	0.50
2:B:131:ALA:HB2	2:B:415:VAL:CG2	2.42	0.50
2:B:231:ILE:HD13	2:B:282:ASN:HB2	1.92	0.50
2:B:423:ASP:O	2:B:423:ASP:OD1	2.30	0.50
6:F:436:ALA:HA	6:F:437:LYS:CE	2.42	0.50
6:F:489:VAL:O	6:F:489:VAL:HG13	2.11	0.50
7:G:75:VAL:O	7:G:81:LYS:HE3	2.12	0.50
7:G:115:PHE:CD1	7:G:437:MET:HB3	2.46	0.50
7:G:193:ASP:O	7:G:193:ASP:OD1	2.30	0.50
8:H:29:ILE:O	8:H:32:ILE:HG22	2.11	0.50
8:H:259:THR:HG21	8:H:263:GLY:HA3	1.94	0.50
8:H:482:HIS:C	8:H:484:VAL:H	2.18	0.50
2:J:4:GLN:C	2:J:5:ILE:CG2	2.73	0.50
2:J:490:SER:HB2	2:J:492:LYS:NZ	2.26	0.50
4:L:30:SER:HA	4:L:33:ASP:CG	2.37	0.50
4:L:30:SER:O	4:L:33:ASP:HB2	2.11	0.50
4:L:115:ILE:HG21	4:L:439:ILE:HG13	1.94	0.50
6:N:387:ALA:O	6:N:391:THR:HG23	2.12	0.50
7:O:23:LYS:HA	7:O:26:ILE:HG22	1.93	0.50
7:O:193:ASP:O	7:O:193:ASP:OD1	2.30	0.50
1:a:1129:PHE:HB3	1:a:1532:LEU:HD21	1.93	0.50
2:b:1242:LYS:HD3	3:c:1269:TRP:CE2	2.47	0.50
3:c:1242:ARG:CB	3:c:1292:PRO:HA	2.42	0.50
4:d:1450:ILE:HB	4:d:1451:PRO:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:h:1005:LEU:O	8:h:1006:PRO:O	2.30	0.50
8:h:1029:ILE:O	8:h:1032:ILE:HG22	2.11	0.50
2:j:1326:VAL:HG11	3:k:1304:LEU:HD13	1.94	0.50
2:j:1409:MET:HA	2:j:1409:MET:CE	2.38	0.50
4:l:1041:PRO:HG2	9:l:1601:ADP:C4	2.47	0.50
7:o:1193:ASP:O	7:o:1193:ASP:OD1	2.30	0.50
8:p:1031:SER:CB	8:p:1079:HIS:HE1	2.25	0.50
8:p:1049:CYS:O	8:p:1466:THR:CB	2.57	0.50
2:B:236:THR:HA	2:B:287:ARG:HD2	1.94	0.50
2:B:464:TYR:HA	2:B:467:ILE:CD1	2.42	0.50
4:D:229:LYS:CB	4:D:232:ALA:HB2	2.42	0.50
4:D:418:GLU:HG3	4:D:447:LEU:O	2.11	0.50
7:G:23:LYS:HA	7:G:26:ILE:HG22	1.93	0.50
7:G:483:PHE:CB	9:G:601:ADP:N6	2.74	0.50
8:H:15:LYS:HE3	8:H:16:GLN:N	2.26	0.50
1:I:92:ARG:HB3	5:M:388:THR:HA	1.93	0.50
2:J:235:ASN:ND2	3:K:304:LEU:HD21	2.27	0.50
3:K:29:LYS:O	3:K:33:ASP:HB2	2.12	0.50
4:L:195:ARG:O	4:L:376:SER:HA	2.12	0.50
5:M:264:SER:O	5:M:266:GLY:O	2.30	0.50
5:M:509:ASN:HB3	5:M:521:ASP:CB	2.36	0.50
6:N:108:PHE:C	6:N:108:PHE:CD1	2.90	0.50
6:N:232:TYR:HA	6:N:351:SER:OG	2.12	0.50
7:O:57:ASN:O	7:O:58:GLN:NE2	2.45	0.50
8:P:83:LYS:O	8:P:87:MET:HG2	2.12	0.50
8:P:226:MET:HE2	8:P:228:PHE:CZ	2.47	0.50
2:b:1502:SER:HA	2:b:1505:ALA:HB3	1.94	0.50
4:d:1060:ASP:HB3	4:d:1063:THR:OG1	2.12	0.50
5:e:1088:ALA:HB1	5:e:1109:LYS:HZ2	1.76	0.50
6:f:1224:MET:HE1	6:f:1316:ALA:N	2.16	0.50
7:g:1236:PHE:O	7:g:1351:LEU:HA	2.12	0.50
2:j:1464:TYR:HA	2:j:1467:ILE:CD1	2.42	0.50
3:k:1029:LYS:O	3:k:1033:ASP:HB2	2.12	0.50
4:l:1195:ARG:O	4:l:1376:SER:HA	2.12	0.50
6:n:1411:ILE:CG2	6:n:1412:ILE:N	2.75	0.50
7:o:1043:THR:HB	7:o:1099:THR:CG2	2.39	0.50
7:o:1191:ARG:NH1	7:o:1192:ASN:HB2	2.27	0.50
7:o:1236:PHE:O	7:o:1351:LEU:HA	2.12	0.50
8:p:1259:THR:HG21	8:p:1263:GLY:HA3	1.94	0.50
2:B:164:LYS:O	2:B:167:SER:N	2.40	0.49
4:D:198:LYS:HD3	4:D:198:LYS:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:406:LEU:O	6:F:406:LEU:HD23	2.12	0.49
1:I:77:HIS:CG	1:I:78:PRO:HD2	2.47	0.49
2:J:34:LYS:O	2:J:37:LEU:HG	2.12	0.49
2:J:195:ILE:HG21	2:J:381:GLU:HB2	1.93	0.49
2:J:242:LYS:HE2	2:J:247:GLY:N	2.26	0.49
4:L:221:LYS:HE2	4:L:225:GLY:CA	2.41	0.49
4:L:524:ILE:HA	7:O:52:LEU:C	2.31	0.49
5:M:132:GLN:HE21	5:M:132:GLN:HA	1.77	0.49
7:O:36:VAL:HG22	7:O:83:LEU:HD13	1.93	0.49
7:O:75:VAL:O	7:O:81:LYS:HE3	2.12	0.49
7:O:214:PHE:CD1	7:O:376:LEU:HB3	2.46	0.49
8:P:226:MET:HA	8:P:383:THR:OG1	2.11	0.49
2:b:1203:LEU:O	2:b:1204:SER:OG	2.30	0.49
2:b:1402:LEU:CD1	2:b:1483:ARG:HE	2.24	0.49
2:b:1422:ILE:O	2:b:1423:ASP:OD2	2.30	0.49
6:f:1124:ILE:HB	6:f:1444:ILE:HD12	1.94	0.49
6:f:1411:ILE:CG2	6:f:1412:ILE:N	2.75	0.49
6:f:1541:LEU:HB3	6:f:1543:GLU:N	2.26	0.49
8:h:1259:THR:HG21	8:h:1263:GLY:HA3	1.94	0.49
1:i:1205:VAL:C	1:i:1206:LEU:HD23	2.36	0.49
4:l:1524:ILE:HG23	7:o:1052:LEU:HD22	1.93	0.49
6:n:1108:PHE:CD1	6:n:1108:PHE:C	2.90	0.49
7:o:1075:VAL:O	7:o:1081:LYS:HE3	2.12	0.49
1:A:129:PHE:HB3	1:A:532:LEU:HD21	1.93	0.49
2:B:4:GLN:O	3:C:72:HIS:CB	2.60	0.49
2:B:60:GLY:H	2:B:93:THR:CG2	2.25	0.49
3:C:29:LYS:O	3:C:33:ASP:HB2	2.12	0.49
5:E:509:ASN:HB3	5:E:521:ASP:CB	2.36	0.49
6:F:23:VAL:HG22	6:F:102:LEU:CD1	2.42	0.49
7:G:346:LEU:HD23	7:G:346:LEU:H	1.76	0.49
8:H:83:LYS:O	8:H:87:MET:HG2	2.12	0.49
4:L:469:LEU:C	4:L:471:SER:H	2.19	0.49
5:M:325:TRP:CG	5:M:326:GLY:N	2.80	0.49
6:N:215:LEU:HB3	6:N:217:HIS:CD2	2.36	0.49
6:N:406:LEU:O	6:N:406:LEU:HD23	2.12	0.49
6:N:491:VAL:HG12	6:N:492:ASP:N	2.27	0.49
8:P:72:LEU:HA	8:P:75:LEU:HB2	1.94	0.49
8:P:259:THR:HG21	8:P:263:GLY:HA3	1.94	0.49
2:b:1030:GLY:CA	2:b:1033:VAL:CG2	2.86	0.49
2:b:1274:ALA:HB1	2:b:1329:PHE:HA	1.94	0.49
2:b:1427:SER:O	2:b:1430:VAL:HB	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1226:PRO:CB	4:d:1311:MET:HG2	2.40	0.49
5:e:1264:SER:O	5:e:1266:GLY:O	2.30	0.49
6:f:1005:LEU:CA	6:f:1006:LEU:HB2	2.34	0.49
7:g:1023:LYS:HA	7:g:1026:ILE:HG22	1.93	0.49
8:h:1083:LYS:O	8:h:1087:MET:HG2	2.12	0.49
8:h:1237:LYS:HB3	8:h:1314:ASN:HB3	1.63	0.49
1:i:1161:LYS:HA	1:i:1164:MET:HG2	1.93	0.49
6:n:1387:ALA:O	6:n:1391:THR:HG23	2.12	0.49
7:o:1242:LEU:HB2	7:o:1293:VAL:HG12	1.92	0.49
8:p:1249:VAL:HG13	8:p:1300:VAL:O	2.12	0.49
8:p:1301:ALA:O	8:p:1323:VAL:HA	2.11	0.49
3:C:124:ALA:HB2	3:C:438:GLN:HE22	1.77	0.49
6:F:43:LEU:CD2	6:F:161:LYS:HA	2.40	0.49
6:F:193:MET:HB3	6:F:330:LEU:HD12	1.94	0.49
6:F:213:LEU:HD23	6:F:377:THR:CG2	2.40	0.49
7:G:236:PHE:O	7:G:351:LEU:HA	2.12	0.49
8:H:249:VAL:HG13	8:H:300:VAL:O	2.13	0.49
8:H:287:MET:O	8:H:291:ILE:HG12	2.12	0.49
2:J:42:MET:HB3	6:N:531:ASP:HB2	1.95	0.49
2:J:131:ALA:HB2	2:J:415:VAL:CG2	2.42	0.49
2:J:236:THR:HA	2:J:287:ARG:HD2	1.94	0.49
3:K:124:ALA:HB2	3:K:438:GLN:HE22	1.77	0.49
5:M:364:PRO:HG3	6:N:307:ASP:CB	2.41	0.49
6:N:154:ALA:O	6:N:157:SER:CB	2.60	0.49
8:P:301:ALA:O	8:P:323:VAL:HA	2.11	0.49
1:a:1379:LYS:N	1:a:1379:LYS:HD2	2.26	0.49
2:b:1046:LEU:HD11	2:b:1063:ILE:HD12	1.93	0.49
5:e:1132:GLN:HE21	5:e:1132:GLN:HA	1.77	0.49
5:e:1173:ASP:HB3	5:e:1437:SER:HB3	1.87	0.49
5:e:1450:MET:HE3	5:e:1454:VAL:HG23	1.93	0.49
6:f:1105:ALA:C	6:f:1107:ARG:N	2.67	0.49
7:g:1214:PHE:CD1	7:g:1376:LEU:HB3	2.46	0.49
8:h:1031:SER:CB	8:h:1079:HIS:HE1	2.25	0.49
8:h:1226:MET:HE2	8:h:1228:PHE:CZ	2.47	0.49
1:i:1433:LEU:O	1:i:1437:ALA:CB	2.61	0.49
2:j:1236:THR:HA	2:j:1287:ARG:HD2	1.94	0.49
2:j:1490:SER:HB2	2:j:1492:LYS:NZ	2.26	0.49
4:l:1030:SER:HA	4:l:1033:ASP:CG	2.37	0.49
5:m:1264:SER:O	5:m:1266:GLY:O	2.30	0.49
5:m:1554:VAL:HG22	6:n:1045:MET:CB	2.42	0.49
6:n:1071:PRO:HG2	6:n:1533:LEU:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:n:1233:VAL:HG13	6:n:1351:SER:CB	2.43	0.49
6:n:1355:TYR:O	6:n:1366:TYR:O	2.31	0.49
6:n:1406:LEU:O	6:n:1406:LEU:HD23	2.12	0.49
6:n:1430:ASN:O	6:n:1433:LYS:CA	2.60	0.49
7:o:1036:VAL:HG22	7:o:1083:LEU:HD13	1.93	0.49
7:o:1171:ILE:O	7:o:1171:ILE:HG22	2.12	0.49
7:o:1455:GLU:CG	7:o:1461:ALA:HB3	2.42	0.49
1:A:8:SER:N	2:J:21:SER:OG	2.43	0.49
1:A:77:HIS:CG	1:A:78:PRO:HD2	2.47	0.49
2:B:160:THR:HG21	2:B:390:VAL:HG21	1.94	0.49
2:B:195:ILE:HG21	2:B:381:GLU:HB2	1.93	0.49
6:F:71:PRO:HG2	6:F:533:LEU:HD12	1.94	0.49
6:F:121:GLY:O	6:F:444:ILE:HD13	2.12	0.49
6:F:124:ILE:HB	6:F:444:ILE:HD12	1.94	0.49
6:F:275:LYS:O	6:F:276:LYS:C	2.52	0.49
6:F:342:ASP:CG	6:F:345:PRO:HG2	2.38	0.49
7:G:214:PHE:CD1	7:G:376:LEU:HB3	2.46	0.49
8:H:301:ALA:O	8:H:323:VAL:HA	2.11	0.49
1:I:161:LYS:HA	1:I:164:MET:HG2	1.93	0.49
2:J:170:LYS:HB2	2:J:170:LYS:NZ	2.28	0.49
3:K:16:THR:HA	3:K:525:ASP:HB3	1.95	0.49
5:M:273:THR:O	5:M:274:CYS:CB	2.59	0.49
7:O:304:THR:HA	7:O:307:PHE:CE2	2.46	0.49
7:O:470:LEU:O	7:O:473:SER:OG	2.29	0.49
8:P:249:VAL:HG13	8:P:300:VAL:O	2.12	0.49
2:b:1003:VAL:HB	2:b:1004:GLN:OE1	2.12	0.49
2:b:1285:ILE:HD13	2:b:1285:ILE:H	1.78	0.49
2:b:1423:ASP:OD1	2:b:1423:ASP:O	2.30	0.49
3:c:1103:ILE:HD12	3:c:1445:VAL:HG22	1.95	0.49
4:d:1198:LYS:HD3	4:d:1198:LYS:N	2.27	0.49
6:f:1121:GLY:O	6:f:1444:ILE:HD13	2.13	0.49
7:g:1193:ASP:O	7:g:1193:ASP:OD1	2.30	0.49
2:j:1170:LYS:HB2	2:j:1170:LYS:NZ	2.28	0.49
2:j:1402:LEU:CD1	2:j:1483:ARG:HE	2.24	0.49
3:k:1124:ALA:HB2	3:k:1438:GLN:HE22	1.78	0.49
5:m:1084:THR:CG2	5:m:1086:ASP:H	2.20	0.49
5:m:1132:GLN:HE21	5:m:1132:GLN:HA	1.77	0.49
5:m:1189:GLY:O	5:m:1190:SER:CB	2.61	0.49
6:n:1023:VAL:HG22	6:n:1102:LEU:CD1	2.42	0.49
6:n:1324:ASN:O	6:n:1328:LEU:N	2.33	0.49
8:p:1079:HIS:ND1	8:p:1081:ALA:HB3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:p:1226:MET:HE2	8:p:1228:PHE:CZ	2.47	0.49
2:B:242:LYS:HE3	2:B:247:GLY:N	2.25	0.49
2:B:274:ALA:HB1	2:B:329:PHE:HA	1.94	0.49
3:C:103:ILE:HD12	3:C:445:VAL:HG22	1.95	0.49
5:E:84:THR:CG2	5:E:86:ASP:H	2.20	0.49
5:E:131:ASP:O	5:E:134:LEU:HB3	2.12	0.49
5:E:535:LYS:O	5:E:539:LEU:HG	2.11	0.49
6:F:280:LEU:HD23	6:F:280:LEU:N	2.27	0.49
6:F:446:ALA:HA	6:F:449:GLU:HG3	1.95	0.49
7:G:36:VAL:HG22	7:G:83:LEU:HD13	1.93	0.49
2:J:423:ASP:O	2:J:423:ASP:OD1	2.30	0.49
5:M:171:SER:HA	5:M:438:ARG:HA	1.93	0.49
6:N:446:ALA:HA	6:N:449:GLU:HG3	1.95	0.49
1:a:1123:THR:HG21	5:e:1068:ARG:NE	2.23	0.49
1:a:1132:ALA:HB2	1:a:1448:ILE:HD13	1.94	0.49
2:b:1042:MET:HE3	6:f:1529:LEU:O	2.12	0.49
2:b:1160:THR:HG21	2:b:1390:VAL:HG21	1.94	0.49
2:b:1170:LYS:HB2	2:b:1170:LYS:NZ	2.28	0.49
2:b:1183:ARG:O	2:b:1184:LEU:CB	2.60	0.49
2:b:1459:LEU:HD13	2:b:1472:LEU:CD2	2.43	0.49
2:b:1464:TYR:HA	2:b:1467:ILE:CD1	2.42	0.49
6:f:1430:ASN:O	6:f:1433:LYS:CA	2.60	0.49
1:i:1013:LEU:HD22	1:i:1014:PHE:H	1.78	0.49
2:j:1242:LYS:HE3	2:j:1247:GLY:N	2.25	0.49
3:k:1103:ILE:HD12	3:k:1445:VAL:HG22	1.95	0.49
4:l:1041:PRO:HG3	9:l:1601:ADP:C5	2.47	0.49
4:l:1135:LEU:CD1	4:l:1411:ILE:HD11	2.43	0.49
6:n:1280:LEU:HD23	6:n:1280:LEU:N	2.27	0.49
7:o:1317:ARG:O	7:o:1317:ARG:CD	2.61	0.49
7:o:1470:LEU:O	7:o:1473:SER:OG	2.30	0.49
1:A:433:LEU:O	1:A:437:ALA:CB	2.61	0.49
5:E:132:GLN:HE21	5:E:132:GLN:HA	1.77	0.49
6:F:154:ALA:O	6:F:157:SER:CB	2.60	0.49
6:F:430:ASN:O	6:F:433:LYS:CA	2.60	0.49
7:G:317:ARG:O	7:G:317:ARG:CD	2.61	0.49
8:H:250:PHE:CE2	8:H:299:ILE:HD12	2.45	0.49
1:I:433:LEU:O	1:I:437:ALA:CB	2.61	0.49
1:I:501:GLY:HA3	1:I:512:GLU:HG2	1.95	0.49
2:J:502:SER:HA	2:J:505:ALA:HB3	1.94	0.49
7:O:191:ARG:NH1	7:O:192:ASN:HB2	2.27	0.49
7:O:236:PHE:O	7:O:351:LEU:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:79:HIS:ND1	8:P:81:ALA:HB3	2.27	0.49
1:a:1433:LEU:O	1:a:1437:ALA:CB	2.61	0.49
3:c:1230:VAL:CG1	3:c:1302:SER:HG	2.15	0.49
5:e:1084:THR:CG2	5:e:1086:ASP:H	2.20	0.49
5:e:1210:ASN:HD22	5:e:1210:ASN:N	2.08	0.49
5:e:1240:ILE:HG12	5:e:1244:ILE:HG21	1.95	0.49
5:e:1535:LYS:O	5:e:1539:LEU:HG	2.11	0.49
6:f:1061:VAL:O	6:f:1065:GLU:HB2	2.13	0.49
6:f:1199:MET:O	6:f:1381:LYS:HE2	2.13	0.49
7:g:1029:ASN:OD1	7:g:1079:ALA:HB2	2.12	0.49
7:g:1191:ARG:NH1	7:g:1192:ASN:HB2	2.27	0.49
7:g:1317:ARG:O	7:g:1317:ARG:CD	2.61	0.49
8:h:1482:HIS:C	8:h:1484:VAL:H	2.18	0.49
2:j:1423:ASP:OD1	2:j:1423:ASP:O	2.30	0.49
3:k:1016:THR:HA	3:k:1525:ASP:HB3	1.95	0.49
4:l:1229:LYS:CB	4:l:1232:ALA:HB2	2.42	0.49
5:m:1450:MET:HE3	5:m:1454:VAL:HG23	1.93	0.49
6:n:1232:TYR:HA	6:n:1351:SER:OG	2.12	0.49
7:o:1214:PHE:CD1	7:o:1376:LEU:HB3	2.46	0.49
8:p:1079:HIS:CE1	8:p:1081:ALA:HB3	2.48	0.49
1:A:96:ASP:OD1	9:A:601:ADP:O1B	2.31	0.49
3:C:430:LYS:O	3:C:433:GLN:CG	2.57	0.49
5:E:264:SER:O	5:E:266:GLY:O	2.30	0.49
6:F:61:VAL:O	6:F:65:GLU:HB2	2.13	0.49
6:F:237:ASN:HA	6:F:297:ASN:OD1	2.13	0.49
7:G:452:GLN:CD	7:G:452:GLN:H	2.21	0.49
8:H:29:ILE:HG22	8:H:30:LYS:N	2.28	0.49
2:J:5:ILE:HD12	2:J:7:GLY:H	1.78	0.49
2:J:183:ARG:O	2:J:184:LEU:CB	2.60	0.49
6:N:23:VAL:HG22	6:N:102:LEU:CD1	2.42	0.49
8:P:463:LEU:HD11	9:P:601:ADP:C8	2.48	0.49
2:b:1060:GLY:H	2:b:1093:THR:CG2	2.25	0.49
2:b:1236:THR:HA	2:b:1287:ARG:HD2	1.94	0.49
4:d:1077:MET:HE1	7:g:1384:GLN:HB2	1.95	0.49
6:f:1237:ASN:HA	6:f:1297:ASN:OD1	2.13	0.49
6:f:1424:ARG:HG2	6:f:1483:SER:CA	2.34	0.49
6:f:1491:VAL:HG12	6:f:1492:ASP:N	2.27	0.49
7:g:1075:VAL:O	7:g:1081:LYS:HE3	2.12	0.49
7:g:1171:ILE:O	7:g:1171:ILE:HG22	2.12	0.49
8:h:1249:VAL:HG13	8:h:1300:VAL:O	2.13	0.49
1:i:1350:PHE:CD2	1:i:1351:GLU:N	2.72	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1060:GLY:H	2:j:1093:THR:CG2	2.25	0.49
2:j:1183:ARG:O	2:j:1184:LEU:CB	2.60	0.49
2:j:1233:ILE:O	2:j:1325:VAL:N	2.46	0.49
8:p:1029:ILE:HG22	8:p:1030:LYS:N	2.28	0.49
2:B:72:PRO:CG	3:C:47:MET:HE1	2.41	0.49
4:D:46:LYS:HG3	8:H:532:THR:CG2	2.40	0.49
5:E:148:ASN:HA	5:E:151:ASP:HB2	1.95	0.49
6:F:232:TYR:HA	6:F:351:SER:OG	2.12	0.49
7:G:516:LEU:HD22	7:G:517:ILE:CA	2.42	0.49
1:I:12:THR:CG2	5:M:97:ASP:H	2.18	0.49
2:J:242:LYS:HZ1	2:J:247:GLY:C	2.04	0.49
3:K:103:ILE:HD12	3:K:445:VAL:HG22	1.95	0.49
7:O:455:GLU:CG	7:O:461:ALA:HB3	2.42	0.49
8:P:79:HIS:CE1	8:P:81:ALA:HB3	2.48	0.49
2:b:1045:LEU:HD12	6:f:1533:LEU:HB3	1.94	0.49
5:e:1189:GLY:O	5:e:1190:SER:CB	2.61	0.49
6:f:1167:THR:CB	6:f:1169:VAL:N	2.64	0.49
6:f:1275:LYS:O	6:f:1276:LYS:C	2.52	0.49
9:g:1601:ADP:O1A	9:g:1601:ADP:H3'	2.13	0.49
8:h:1029:ILE:HG22	8:h:1030:LYS:N	2.28	0.49
8:h:1287:MET:O	8:h:1291:ILE:HG12	2.12	0.49
1:i:1090:GLN:HG3	1:i:1101:VAL:CG2	2.19	0.49
3:k:1457:ILE:HD13	3:k:1467:LEU:CD1	2.19	0.49
4:l:1298:ASN:HB3	4:l:1299:ASP:CA	2.43	0.49
5:m:1131:ASP:O	5:m:1134:LEU:HB3	2.12	0.49
5:m:1148:ASN:HA	5:m:1151:ASP:HB2	1.95	0.49
6:n:1275:LYS:O	6:n:1276:LYS:C	2.52	0.49
2:B:183:ARG:O	2:B:184:LEU:CB	2.60	0.49
2:B:464:TYR:HA	2:B:467:ILE:HD11	1.94	0.49
3:C:515:GLU:CD	8:H:389:ALA:HB3	2.38	0.49
4:D:30:SER:HA	4:D:33:ASP:CG	2.37	0.49
4:D:195:ARG:O	4:D:376:SER:HA	2.12	0.49
5:E:558:GLY:HA2	6:F:48:ASP:HB2	1.94	0.49
6:F:138:ILE:O	6:F:138:ILE:CG2	2.58	0.49
6:F:199:MET:O	6:F:381:LYS:HE2	2.13	0.49
7:G:43:THR:HG21	7:G:64:ASN:O	2.13	0.49
7:G:57:ASN:O	7:G:58:GLN:NE2	2.45	0.49
7:G:143:LEU:HD22	7:G:411:ALA:HB2	1.94	0.49
8:H:163:ILE:HG23	8:H:179:SER:CB	2.42	0.49
8:H:226:MET:HE2	8:H:228:PHE:CZ	2.47	0.49
8:H:356:GLU:HB2	8:H:374:GLU:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:13:LEU:HD22	1:I:14:PHE:H	1.78	0.49
2:J:160:THR:HG21	2:J:390:VAL:HG21	1.94	0.49
2:J:427:SER:O	2:J:430:VAL:HB	2.12	0.49
6:N:355:TYR:O	6:N:366:TYR:O	2.31	0.49
6:N:405:VAL:HG22	6:N:509:SER:HB2	1.94	0.49
7:O:29:ASN:OD1	7:O:79:ALA:HB2	2.12	0.49
7:O:317:ARG:O	7:O:317:ARG:CD	2.61	0.49
2:b:1464:TYR:HA	2:b:1467:ILE:HD11	1.94	0.49
3:c:1306:GLN:C	3:c:1310:LEU:HG	2.37	0.49
6:f:1023:VAL:HG22	6:f:1102:LEU:CD1	2.42	0.49
6:f:1108:PHE:CD1	6:f:1108:PHE:C	2.90	0.49
6:f:1154:ALA:O	6:f:1157:SER:CB	2.60	0.49
6:f:1160:THR:N	6:f:1164:ALA:CB	2.76	0.49
6:f:1193:MET:HB3	6:f:1330:LEU:HD12	1.94	0.49
6:f:1424:ARG:HA	6:f:1424:ARG:NE	2.12	0.49
2:j:1005:ILE:HD12	2:j:1007:GLY:H	1.78	0.49
2:j:1427:SER:O	2:j:1430:VAL:HB	2.12	0.49
3:k:1306:GLN:C	3:k:1310:LEU:HG	2.37	0.49
4:l:1060:ASP:HB3	4:l:1063:THR:OG1	2.12	0.49
6:n:1199:MET:O	6:n:1381:LYS:HE2	2.13	0.49
6:n:1541:LEU:HB3	6:n:1543:GLU:N	2.26	0.49
7:o:1029:ASN:OD1	7:o:1079:ALA:HB2	2.12	0.49
7:o:1452:GLN:CD	7:o:1452:GLN:H	2.21	0.49
8:p:1072:LEU:HA	8:p:1075:LEU:HB2	1.94	0.49
1:A:116:VAL:HG12	1:A:120:ILE:HG22	1.95	0.49
2:B:170:LYS:HB2	2:B:170:LYS:NZ	2.28	0.49
2:B:233:ILE:O	2:B:325:VAL:N	2.46	0.49
2:B:382:ARG:HG3	2:B:382:ARG:HH11	1.78	0.49
4:D:135:LEU:CD1	4:D:411:ILE:HD11	2.43	0.49
6:F:16:ASP:OD1	6:F:16:ASP:N	2.36	0.49
7:G:413:GLY:CA	7:G:491:ASN:HD21	2.22	0.49
1:I:132:ALA:HB2	1:I:448:ILE:HD13	1.94	0.49
2:J:459:LEU:HD13	2:J:472:LEU:CD2	2.43	0.49
3:K:430:LYS:O	3:K:433:GLN:CG	2.57	0.49
5:M:148:ASN:HA	5:M:151:ASP:HB2	1.95	0.49
5:M:450:MET:HE3	5:M:454:VAL:HG23	1.93	0.49
6:N:121:GLY:O	6:N:444:ILE:HD13	2.12	0.49
7:O:44:LEU:HB2	7:O:456:ASN:ND2	2.28	0.49
8:P:49:CYS:O	8:P:466:THR:CB	2.57	0.49
2:b:1057:THR:HG21	2:b:1382:ARG:NH1	2.28	0.49
2:b:1233:ILE:O	2:b:1325:VAL:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1382:ARG:HH11	2:b:1382:ARG:HG3	1.78	0.49
4:d:1195:ARG:O	4:d:1376:SER:HA	2.12	0.49
5:e:1148:ASN:HA	5:e:1151:ASP:HB2	1.95	0.49
6:f:1047:VAL:HG12	6:f:1048:ASP:N	2.28	0.49
6:f:1231:ALA:O	6:f:1351:SER:OG	2.22	0.49
6:f:1342:ASP:CG	6:f:1345:PRO:HG2	2.38	0.49
6:f:1353:LEU:H	6:f:1369:GLU:HB3	1.77	0.49
7:g:1143:LEU:HD22	7:g:1411:ALA:HB2	1.94	0.49
8:h:1163:ILE:CG2	8:h:1179:SER:HB2	2.40	0.49
8:h:1248:ALA:HB2	8:h:1352:LEU:HD13	1.95	0.49
8:h:1443:GLY:O	8:h:1446:GLN:HG3	2.13	0.49
1:i:1501:GLY:HA3	1:i:1512:GLU:HG2	1.95	0.49
2:j:1034:LYS:O	2:j:1037:LEU:HG	2.12	0.49
2:j:1382:ARG:HH11	2:j:1382:ARG:HG3	1.78	0.49
2:j:1422:ILE:O	2:j:1423:ASP:OD2	2.30	0.49
5:m:1240:ILE:HG12	5:m:1244:ILE:HG21	1.94	0.49
6:n:1154:ALA:O	6:n:1157:SER:CB	2.60	0.49
1:A:14:PHE:CB	1:A:15:LEU:HA	2.43	0.48
1:A:121:HIS:CE1	5:E:68:ARG:HG3	2.48	0.48
1:A:132:ALA:HB2	1:A:448:ILE:HD13	1.94	0.48
3:C:306:GLN:C	3:C:310:LEU:HG	2.37	0.48
4:D:254:VAL:CG2	4:D:254:VAL:O	2.61	0.48
5:E:535:LYS:HD2	5:E:535:LYS:C	2.38	0.48
6:F:224:MET:HE1	6:F:316:ALA:N	2.16	0.48
7:G:62:ILE:O	7:G:63:SER:HB3	2.11	0.48
7:G:396:ALA:O	7:G:397:ILE:C	2.55	0.48
1:I:164:MET:CE	1:I:169:ILE:HB	2.43	0.48
2:J:60:GLY:H	2:J:93:THR:CG2	2.25	0.48
2:J:263:LYS:NZ	3:K:266:GLU:CG	2.76	0.48
2:J:464:TYR:HA	2:J:467:ILE:HD11	1.94	0.48
2:J:514:ILE:HG22	2:J:515:ILE:H	1.78	0.48
3:K:41:PRO:CA	3:K:161:THR:HG21	2.43	0.48
4:L:135:LEU:CD1	4:L:411:ILE:HD11	2.43	0.48
4:L:204:ILE:O	4:L:207:THR:HG23	2.13	0.48
4:L:325:SER:O	4:L:329:GLY:N	2.46	0.48
8:P:334:ARG:HD3	8:P:380:ARG:HH11	1.78	0.48
1:a:1008:SER:N	2:j:1021:SER:OG	2.43	0.48
2:b:1348:LEU:HG	6:f:1086:ILE:CA	2.43	0.48
3:c:1029:LYS:O	3:c:1033:ASP:HB2	2.12	0.48
4:d:1469:LEU:C	4:d:1471:SER:H	2.20	0.48
5:e:1033:LYS:HE2	6:n:1117:ILE:CG1	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:1037:ASN:HB2	6:n:1114:HIS:HA	1.95	0.48
8:h:1079:HIS:CE1	8:h:1081:ALA:HB3	2.48	0.48
1:i:1010:SER:O	1:i:1011:ASP:O	2.31	0.48
4:l:1523:ASP:C	7:o:1051:ILE:HG23	2.36	0.48
6:n:1061:VAL:O	6:n:1065:GLU:HB2	2.13	0.48
6:n:1342:ASP:CG	6:n:1345:PRO:HG2	2.38	0.48
1:A:10:SER:O	1:A:11:ASP:O	2.31	0.48
1:A:164:MET:CE	1:A:169:ILE:HB	2.43	0.48
2:B:5:ILE:HD12	2:B:7:GLY:H	1.78	0.48
2:B:72:PRO:HB2	3:C:47:MET:HE1	1.88	0.48
2:B:514:ILE:HG22	2:B:515:ILE:H	1.78	0.48
3:C:16:THR:HA	3:C:525:ASP:HB3	1.95	0.48
3:C:414:PRO:O	3:C:419:THR:HG23	2.14	0.48
5:E:189:GLY:O	5:E:190:SER:CB	2.61	0.48
5:E:547:MET:SD	6:F:387:ALA:HA	2.53	0.48
6:F:160:THR:N	6:F:164:ALA:CB	2.76	0.48
6:F:491:VAL:HG12	6:F:492:ASP:N	2.27	0.48
7:G:107:GLU:HG2	7:G:448:VAL:HG21	1.95	0.48
7:G:470:LEU:O	7:G:473:SER:OG	2.30	0.48
8:H:334:ARG:HD3	8:H:380:ARG:HH11	1.78	0.48
2:J:274:ALA:HB1	2:J:329:PHE:HA	1.94	0.48
2:J:382:ARG:HG3	2:J:382:ARG:HH11	1.78	0.48
2:J:463:ILE:CG2	2:J:464:TYR:N	2.76	0.48
5:M:193:VAL:O	5:M:193:VAL:HG12	2.14	0.48
7:O:145:VAL:O	7:O:408:LEU:CA	2.58	0.48
8:P:29:ILE:HG22	8:P:30:LYS:N	2.28	0.48
8:P:356:GLU:HB2	8:P:374:GLU:HA	1.95	0.48
1:a:1116:VAL:HG12	1:a:1120:ILE:HG22	1.95	0.48
2:b:1058:ASN:ND2	2:b:1058:ASN:C	2.69	0.48
2:b:1263:LYS:HZ1	3:c:1266:GLU:HG2	1.78	0.48
4:d:1254:VAL:CG2	4:d:1254:VAL:O	2.61	0.48
5:e:1373:LYS:HE2	6:f:1311:LYS:HZ3	1.78	0.48
7:g:1044:LEU:HB2	7:g:1456:ASN:ND2	2.28	0.48
8:h:1027:GLN:O	8:h:1031:SER:N	2.33	0.48
1:i:1116:VAL:HG12	1:i:1120:ILE:HG22	1.95	0.48
1:i:1164:MET:CE	1:i:1169:ILE:HB	2.43	0.48
2:j:1057:THR:HG21	2:j:1382:ARG:NH1	2.28	0.48
2:j:1274:ALA:HB1	2:j:1329:PHE:HA	1.94	0.48
4:l:1044:MET:HE3	8:p:1531:ALA:CB	2.43	0.48
4:l:1204:ILE:O	4:l:1207:THR:HG23	2.13	0.48
6:n:1121:GLY:O	6:n:1444:ILE:HD13	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:p:1248:ALA:HB2	8:p:1352:LEU:HD13	1.95	0.48
1:A:13:LEU:HD22	1:A:14:PHE:H	1.78	0.48
2:B:57:THR:HG21	2:B:382:ARG:NH1	2.28	0.48
2:B:377:LEU:H	2:B:377:LEU:HD12	1.78	0.48
2:B:459:LEU:HD13	2:B:472:LEU:CD2	2.43	0.48
4:D:254:VAL:HG13	8:H:264:THR:O	2.14	0.48
7:G:29:ASN:OD1	7:G:79:ALA:HB2	2.12	0.48
7:G:44:LEU:HB2	7:G:456:ASN:ND2	2.28	0.48
8:H:72:LEU:HA	8:H:75:LEU:HB2	1.94	0.48
1:I:264:ILE:O	1:I:264:ILE:HD12	2.13	0.48
1:I:540:ARG:HA	5:M:70:LEU:HD22	1.95	0.48
3:K:9:ASN:HD22	3:K:10:ALA:N	2.11	0.48
3:K:35:ILE:C	3:K:37:THR:H	2.21	0.48
4:L:60:ASP:HB3	4:L:63:THR:OG1	2.12	0.48
5:M:240:ILE:HG12	5:M:244:ILE:HG21	1.94	0.48
6:N:160:THR:N	6:N:164:ALA:CB	2.76	0.48
6:N:199:MET:O	6:N:381:LYS:HE2	2.13	0.48
7:O:249:GLU:O	7:O:250:LEU:C	2.55	0.48
8:P:443:GLY:O	8:P:446:GLN:HG3	2.13	0.48
1:a:1104:ILE:HG12	1:a:1458:ILE:HD11	1.93	0.48
1:a:1162:THR:HG21	1:a:1518:LEU:O	2.13	0.48
2:b:1042:MET:HB3	6:f:1531:ASP:HB2	1.95	0.48
2:b:1242:LYS:HZ1	2:b:1247:GLY:C	2.02	0.48
3:c:1414:PRO:O	3:c:1419:THR:HG23	2.14	0.48
4:d:1046:LYS:HG3	8:h:1532:THR:HG23	1.94	0.48
6:f:1159:LEU:CA	6:f:1164:ALA:HB2	2.41	0.48
6:f:1280:LEU:HD23	6:f:1280:LEU:N	2.27	0.48
6:f:1355:TYR:O	6:f:1366:TYR:O	2.31	0.48
2:j:1042:MET:HB3	6:n:1531:ASP:HB2	1.95	0.48
2:j:1102:LEU:HD23	2:j:1102:LEU:C	2.39	0.48
2:j:1256:ALA:HB1	3:k:1266:GLU:OE2	2.13	0.48
2:j:1463:ILE:CG2	2:j:1464:TYR:N	2.76	0.48
2:j:1464:TYR:HA	2:j:1467:ILE:HD11	1.94	0.48
3:k:1456:LEU:HD21	9:k:2101:ADP:O4'	2.14	0.48
6:n:1405:VAL:HG22	6:n:1509:SER:HB2	1.94	0.48
8:p:1482:HIS:C	8:p:1484:VAL:H	2.18	0.48
2:B:118:GLN:O	2:B:121:ILE:HG12	2.14	0.48
2:B:427:SER:O	2:B:430:VAL:HB	2.12	0.48
2:B:467:ILE:HA	2:B:468:SER:HA	1.59	0.48
3:C:9:ASN:HD22	3:C:10:ALA:N	2.11	0.48
4:D:8:ASN:OD1	4:D:8:ASN:O	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:204:ILE:O	4:D:207:THR:HG23	2.13	0.48
4:D:260:MET:O	4:D:263:ILE:HG22	2.13	0.48
5:E:346:VAL:O	5:E:347:GLY:C	2.57	0.48
6:F:405:VAL:HG22	6:F:509:SER:HB2	1.94	0.48
8:H:348:THR:O	8:H:352:LEU:HD23	2.13	0.48
2:J:442:THR:HG23	2:J:452:SER:CB	2.34	0.48
5:M:32:VAL:CG2	5:M:33:LYS:H	2.15	0.48
5:M:84:THR:CG2	5:M:86:ASP:H	2.20	0.48
6:N:342:ASP:CG	6:N:345:PRO:HG2	2.38	0.48
6:N:353:LEU:H	6:N:369:GLU:HB3	1.77	0.48
6:N:395:VAL:O	6:N:399:LEU:HB3	2.14	0.48
7:O:97:GLY:O	7:O:101:VAL:HG23	2.14	0.48
7:O:217:GLY:HA3	7:O:366:GLN:HA	1.95	0.48
8:P:248:ALA:HB2	8:P:352:LEU:HD13	1.95	0.48
1:a:1013:LEU:HD22	1:a:1014:PHE:H	1.77	0.48
3:c:1041:PRO:CA	3:c:1161:THR:HG21	2.43	0.48
7:g:1043:THR:HG21	7:g:1064:ASN:O	2.13	0.48
7:g:1249:GLU:O	7:g:1250:LEU:C	2.55	0.48
8:h:1348:THR:O	8:h:1352:LEU:HD23	2.13	0.48
8:h:1356:GLU:HB2	8:h:1374:GLU:HA	1.95	0.48
1:i:1264:ILE:O	1:i:1264:ILE:HD12	2.14	0.48
4:l:1008:ASN:OD1	4:l:1008:ASN:O	2.31	0.48
4:l:1115:ILE:HG21	4:l:1439:ILE:HG13	1.94	0.48
5:m:1352:GLU:HA	6:n:1222:PRO:HG3	1.93	0.48
6:n:1395:VAL:O	6:n:1399:LEU:HB3	2.14	0.48
7:o:1107:GLU:HG2	7:o:1448:VAL:HG21	1.95	0.48
8:p:1356:GLU:HB2	8:p:1374:GLU:HA	1.95	0.48
2:B:502:SER:HA	2:B:505:ALA:HB3	1.94	0.48
3:C:9:ASN:ND2	3:C:10:ALA:H	2.11	0.48
3:C:35:ILE:C	3:C:37:THR:H	2.22	0.48
6:F:355:TYR:O	6:F:366:TYR:O	2.31	0.48
7:G:214:PHE:O	7:G:214:PHE:CG	2.67	0.48
8:H:31:SER:HB2	8:H:79:HIS:HE1	1.78	0.48
8:H:85:LEU:HD13	8:H:107:ALA:HB1	1.95	0.48
1:I:10:SER:O	1:I:11:ASP:O	2.31	0.48
1:I:12:THR:CB	5:M:96:LEU:HA	2.43	0.48
2:J:57:THR:HG21	2:J:382:ARG:NH1	2.28	0.48
2:J:162:SER:O	2:J:163:SER:OG	2.30	0.48
6:N:61:VAL:O	6:N:65:GLU:HB2	2.13	0.48
7:O:516:LEU:HD22	7:O:517:ILE:CA	2.42	0.48
8:P:27:GLN:O	8:P:31:SER:N	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:237:LYS:HB2	8:P:314:ASN:CB	2.31	0.48
2:b:1068:PRO:HG2	6:f:1536:ALA:HB2	1.95	0.48
2:b:1463:ILE:CG2	2:b:1464:TYR:N	2.76	0.48
3:c:1162:LYS:C	3:c:1164:VAL:H	2.22	0.48
4:d:1030:SER:HA	4:d:1033:ASP:CG	2.37	0.48
6:f:1243:GLU:OE2	6:f:1243:GLU:CA	2.52	0.48
6:f:1414:GLY:O	6:f:1415:ALA:CB	2.62	0.48
7:g:1097:GLY:O	7:g:1101:VAL:HG23	2.14	0.48
7:g:1214:PHE:CG	7:g:1214:PHE:O	2.67	0.48
7:g:1217:GLY:HA3	7:g:1366:GLN:HA	1.95	0.48
1:i:1546:THR:HA	5:m:1075:ILE:HB	1.95	0.48
2:j:1088:VAL:HG13	2:j:1393:GLN:NE2	2.21	0.48
3:k:1117:HIS:HE1	8:p:1050:GLY:O	1.96	0.48
6:n:1491:VAL:HG12	6:n:1492:ASP:N	2.27	0.48
7:o:1304:THR:HA	7:o:1307:PHE:CE2	2.46	0.48
7:o:1516:LEU:HD22	7:o:1517:ILE:CA	2.42	0.48
2:B:463:ILE:CG2	2:B:464:TYR:N	2.76	0.48
3:C:162:LYS:C	3:C:164:VAL:H	2.22	0.48
3:C:318:ARG:O	3:C:319:ARG:C	2.56	0.48
4:D:523:ASP:O	7:G:51:ILE:CG2	2.53	0.48
6:F:47:VAL:HG12	6:F:48:ASP:N	2.28	0.48
7:G:171:ILE:O	7:G:171:ILE:HG22	2.12	0.48
4:L:81:VAL:HG21	4:L:514:CYS:SG	2.54	0.48
4:L:291:SER:HA	4:L:315:ASP:CA	2.44	0.48
6:N:486:THR:O	6:N:487:ARG:CB	2.62	0.48
7:O:108:LEU:O	7:O:108:LEU:HD23	2.13	0.48
7:O:452:GLN:CD	7:O:452:GLN:H	2.21	0.48
1:a:1010:SER:O	1:a:1011:ASP:O	2.31	0.48
2:b:1237:THR:N	2:b:1287:ARG:HD2	2.28	0.48
2:b:1328:THR:O	2:b:1329:PHE:CB	2.62	0.48
3:c:1479:ASN:HB3	3:c:1482:THR:OG1	2.14	0.48
4:d:1081:VAL:HG22	7:g:1382:ALA:HB2	1.94	0.48
4:d:1219:ALA:HB1	4:d:1221:LYS:HZ1	1.77	0.48
4:d:1298:ASN:HB3	4:d:1299:ASP:CA	2.43	0.48
7:g:1108:LEU:O	7:g:1108:LEU:HD23	2.13	0.48
1:i:1086:LEU:HD23	1:i:1086:LEU:C	2.39	0.48
1:i:1221:GLY:HA2	1:i:1382:SER:CB	2.42	0.48
5:m:1325:TRP:CG	5:m:1326:GLY:N	2.80	0.48
6:n:1420:ILE:CG2	6:n:1482:ASP:CG	2.86	0.48
8:p:1085:LEU:HD13	8:p:1107:ALA:HB1	1.95	0.48
1:A:494:ARG:CB	1:A:496:SER:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:215:ASP:O	5:E:216:ARG:CB	2.62	0.48
5:E:351:LEU:HD22	5:E:352:GLU:N	2.29	0.48
6:F:28:GLY:C	6:F:30:GLN:H	2.22	0.48
6:F:486:THR:O	6:F:487:ARG:CB	2.62	0.48
8:H:65:THR:HG22	8:H:396:ASP:OD1	2.14	0.48
8:H:443:GLY:O	8:H:446:GLN:HG3	2.13	0.48
2:J:59:ASP:HB3	2:J:62:THR:OG1	2.14	0.48
2:J:206:SER:HB2	2:J:368:VAL:HG22	1.94	0.48
2:J:314:VAL:HG11	3:K:232:PRO:HD3	1.95	0.48
2:J:438:ARG:O	2:J:441:PRO:HG2	2.14	0.48
3:K:318:ARG:O	3:K:319:ARG:C	2.56	0.48
4:L:72:HIS:CD2	8:P:15:LYS:NZ	2.82	0.48
5:M:215:ASP:O	5:M:216:ARG:CB	2.62	0.48
6:N:195:GLU:CD	6:N:197:MET:SD	2.97	0.48
6:N:237:ASN:HA	6:N:297:ASN:OD1	2.13	0.48
6:N:430:ASN:HA	6:N:433:LYS:HB2	1.96	0.48
7:O:500:ALA:O	7:O:504:ILE:HG13	2.14	0.48
8:P:85:LEU:HD13	8:P:107:ALA:HB1	1.95	0.48
1:a:1501:GLY:HA3	1:a:1512:GLU:HG2	1.95	0.48
2:b:1005:ILE:HD12	2:b:1007:GLY:H	1.78	0.48
2:b:1251:LYS:N	6:f:1251:PHE:HA	2.21	0.48
3:c:1009:ASN:HD22	3:c:1010:ALA:N	2.11	0.48
3:c:1124:ALA:HB2	3:c:1438:GLN:HE22	1.78	0.48
5:e:1175:LEU:HD12	5:e:1175:LEU:O	2.14	0.48
5:e:1250:SER:HB3	5:e:1342:ALA:O	2.14	0.48
6:f:1086:ILE:HG23	6:f:1087:THR:HG23	1.96	0.48
7:g:1241:ILE:HG12	7:g:1292:ILE:CG2	2.44	0.48
7:g:1452:GLN:CD	7:g:1452:GLN:H	2.21	0.48
7:g:1483:PHE:CB	9:g:1601:ADP:HN62	2.26	0.48
8:h:1031:SER:HB2	8:h:1079:HIS:HE1	1.78	0.48
1:i:1094:ILE:HD12	1:i:1094:ILE:N	2.29	0.48
2:j:1422:ILE:HG22	2:j:1424:GLY:H	1.75	0.48
2:j:1459:LEU:HD13	2:j:1472:LEU:CD2	2.43	0.48
3:k:1414:PRO:O	3:k:1419:THR:HG23	2.14	0.48
4:l:1081:VAL:HG21	4:l:1514:CYS:SG	2.54	0.48
4:l:1174:ALA:O	4:l:1178:VAL:HG23	2.13	0.48
4:l:1254:VAL:CG2	4:l:1254:VAL:O	2.61	0.48
5:m:1175:LEU:HD12	5:m:1175:LEU:O	2.14	0.48
5:m:1250:SER:HB3	5:m:1342:ALA:O	2.14	0.48
7:o:1108:LEU:O	7:o:1108:LEU:HD23	2.13	0.48
8:p:1065:THR:HG22	8:p:1396:ASP:OD1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:p:1163:ILE:CG2	8:p:1179:SER:HB2	2.40	0.48
1:A:92:ARG:HG2	5:E:388:THR:CB	2.43	0.48
1:A:156:LEU:HD23	1:A:156:LEU:O	2.14	0.48
6:F:22:ASN:O	6:F:72:THR:HG21	2.14	0.48
7:G:97:GLY:O	7:G:101:VAL:HG23	2.14	0.48
8:H:310:LEU:HD13	8:H:314:ASN:OD1	2.14	0.48
1:I:86:LEU:HD23	1:I:86:LEU:C	2.39	0.48
2:J:102:LEU:HD23	2:J:102:LEU:C	2.39	0.48
5:M:250:SER:HB3	5:M:342:ALA:O	2.14	0.48
6:N:332:THR:HB	6:N:351:SER:HA	1.96	0.48
6:N:414:GLY:O	6:N:415:ALA:CB	2.62	0.48
6:N:429:ALA:O	6:N:433:LYS:HD3	2.14	0.48
6:N:485:GLU:CG	6:N:489:VAL:HB	2.44	0.48
7:O:107:GLU:HG2	7:O:448:VAL:HG21	1.95	0.48
8:P:48:PRO:HB3	8:P:172:TYR:CD1	2.49	0.48
1:a:1090:GLN:HG3	1:a:1101:VAL:CG2	2.19	0.48
3:c:1174:LEU:HG	3:c:1219:VAL:HG22	1.96	0.48
4:d:1081:VAL:HG21	4:d:1514:CYS:SG	2.54	0.48
4:d:1204:ILE:O	4:d:1207:THR:HG23	2.13	0.48
5:e:1037:ASN:HD22	6:n:1114:HIS:CD2	2.31	0.48
6:f:1071:PRO:HG2	6:f:1533:LEU:HD12	1.94	0.48
6:f:1405:VAL:HG22	6:f:1509:SER:HB2	1.94	0.48
6:f:1446:ALA:HA	6:f:1449:GLU:HG3	1.95	0.48
7:g:1107:GLU:HG2	7:g:1448:VAL:HG21	1.95	0.48
8:h:1035:ILE:HD13	8:h:1082:VAL:HA	1.95	0.48
8:h:1334:ARG:HD3	8:h:1380:ARG:HH11	1.77	0.48
1:i:1494:ARG:CB	1:i:1496:SER:H	2.21	0.48
2:j:1059:ASP:HB3	2:j:1062:THR:OG1	2.14	0.48
3:k:1009:ASN:HD22	3:k:1010:ALA:N	2.11	0.48
3:k:1035:ILE:C	3:k:1037:THR:H	2.22	0.48
3:k:1471:LEU:HG	3:k:1491:ILE:HG13	1.96	0.48
7:o:1235:LYS:CB	7:o:1353:GLU:HA	2.44	0.48
7:o:1249:GLU:O	7:o:1250:LEU:C	2.55	0.48
7:o:1500:ALA:O	7:o:1504:ILE:HG13	2.14	0.48
8:p:1027:GLN:O	8:p:1031:SER:N	2.33	0.48
8:p:1035:ILE:HD13	8:p:1082:VAL:HA	1.95	0.48
8:p:1048:PRO:HB3	8:p:1172:TYR:CD1	2.49	0.48
8:p:1243:LYS:HB3	8:p:1244:LYS:NZ	2.29	0.48
8:p:1334:ARG:HD3	8:p:1380:ARG:HH11	1.77	0.48
8:p:1396:ASP:HA	8:p:1399:ARG:HH11	1.79	0.48
2:B:263:LYS:NZ	3:C:266:GLU:CB	2.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:479:ASN:HB3	3:C:482:THR:OG1	2.14	0.48
4:D:44:MET:HG3	8:H:531:ALA:CB	2.41	0.48
5:E:127:SER:O	5:E:128:ALA:C	2.57	0.48
5:E:193:VAL:O	5:E:193:VAL:HG12	2.14	0.48
6:F:429:ALA:O	6:F:433:LYS:HD3	2.14	0.48
7:G:241:ILE:HG12	7:G:292:ILE:CG2	2.44	0.48
2:J:32:LEU:HG	6:N:532:GLU:CD	2.37	0.48
2:J:233:ILE:O	2:J:325:VAL:N	2.46	0.48
2:J:285:ILE:HD13	2:J:285:ILE:H	1.78	0.48
2:J:377:LEU:H	2:J:377:LEU:HD12	1.78	0.48
3:K:268:ASP:O	3:K:272:ILE:HG12	2.14	0.48
4:L:91:ASP:OD1	10:L:602:BEF:F1	2.22	0.48
5:M:351:LEU:HD22	5:M:352:GLU:N	2.29	0.48
6:N:2:SER:HA	6:N:3:LEU:CB	2.35	0.48
7:O:43:THR:HB	7:O:99:THR:CG2	2.39	0.48
8:P:65:THR:HG22	8:P:396:ASP:OD1	2.14	0.48
1:a:1086:LEU:C	1:a:1086:LEU:HD23	2.39	0.48
2:b:1059:ASP:HB3	2:b:1062:THR:OG1	2.14	0.48
2:b:1070:ASP:HB3	6:f:1005:LEU:HD22	1.92	0.48
2:b:1243:VAL:HG22	3:c:1273:LEU:HA	1.95	0.48
2:b:1438:ARG:O	2:b:1441:PRO:HG2	2.14	0.48
4:d:1134:ILE:HD12	4:d:1421:ILE:HD13	1.95	0.48
5:e:1074:LEU:HD12	5:e:1093:GLN:HB3	1.96	0.48
5:e:1325:TRP:CG	5:e:1326:GLY:N	2.80	0.48
5:e:1535:LYS:HD2	5:e:1535:LYS:C	2.39	0.48
8:h:1065:THR:HG22	8:h:1396:ASP:OD1	2.14	0.48
8:h:1248:ALA:HB2	8:h:1352:LEU:CD1	2.44	0.48
2:j:1124:TYR:N	2:j:1124:TYR:HD1	2.12	0.48
4:l:1260:MET:O	4:l:1263:ILE:HG22	2.13	0.48
4:l:1352:GLU:HA	4:l:1361:VAL:HA	1.95	0.48
4:l:1499:GLN:NE2	9:l:1601:ADP:O2'	2.46	0.48
5:m:1193:VAL:O	5:m:1193:VAL:HG12	2.14	0.48
6:n:1047:VAL:HG12	6:n:1048:ASP:N	2.28	0.48
6:n:1332:THR:HB	6:n:1351:SER:HA	1.96	0.48
6:n:1414:GLY:O	6:n:1415:ALA:CB	2.62	0.48
6:n:1446:ALA:HA	6:n:1449:GLU:HG3	1.95	0.48
7:o:1241:ILE:HG12	7:o:1292:ILE:CG2	2.44	0.48
7:o:1455:GLU:N	7:o:1461:ALA:HB2	2.29	0.48
8:p:1423:ALA:H	9:p:1601:ADP:H3'	1.77	0.48
8:p:1443:GLY:O	8:p:1446:GLN:HG3	2.13	0.48
1:A:86:LEU:HD23	1:A:86:LEU:C	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:94:ILE:HD12	1:A:94:ILE:N	2.29	0.48
1:A:264:ILE:O	1:A:264:ILE:HD12	2.14	0.48
1:A:501:GLY:HA3	1:A:512:GLU:HG2	1.95	0.48
3:C:268:ASP:O	3:C:272:ILE:HG12	2.14	0.48
3:C:471:LEU:HG	3:C:491:ILE:HG13	1.96	0.48
5:E:133:ALA:HB2	5:E:150:PHE:HE2	1.79	0.48
5:E:325:TRP:CG	5:E:326:GLY:N	2.80	0.48
6:F:332:THR:HB	6:F:351:SER:HA	1.96	0.48
6:F:353:LEU:H	6:F:369:GLU:HB3	1.77	0.48
6:F:420:ILE:CG2	6:F:482:ASP:CG	2.86	0.48
6:F:430:ASN:C	6:F:432:ASN:H	2.22	0.48
7:G:145:VAL:O	7:G:408:LEU:CA	2.58	0.48
7:G:455:GLU:N	7:G:461:ALA:HB2	2.29	0.48
8:H:48:PRO:HB3	8:H:172:TYR:CD1	2.49	0.48
1:I:116:VAL:HG12	1:I:120:ILE:HG22	1.95	0.48
3:K:306:GLN:C	3:K:310:LEU:HG	2.37	0.48
4:L:254:VAL:O	4:L:254:VAL:CG2	2.61	0.48
6:N:420:ILE:CG2	6:N:482:ASP:CG	2.86	0.48
6:N:541:LEU:HB3	6:N:543:GLU:N	2.26	0.48
7:O:174:ASN:ND2	7:O:209:MET:SD	2.80	0.48
8:P:163:ILE:HG23	8:P:179:SER:CB	2.42	0.48
1:a:1164:MET:CE	1:a:1169:ILE:HB	2.44	0.48
2:b:1375:GLN:HE22	6:f:1075:LEU:HB2	1.79	0.48
3:c:1016:THR:HA	3:c:1525:ASP:HB3	1.95	0.48
4:d:1260:MET:O	4:d:1263:ILE:HG22	2.13	0.48
6:f:1016:ASP:OD1	6:f:1016:ASP:N	2.36	0.48
6:f:1076:ILE:HG21	6:f:1095:VAL:HG13	1.96	0.48
8:h:1048:PRO:HB3	8:h:1172:TYR:CD1	2.49	0.48
8:h:1085:LEU:HD13	8:h:1107:ALA:HB1	1.95	0.48
2:j:1377:LEU:H	2:j:1377:LEU:HD12	1.78	0.48
2:j:1403:GLY:O	2:j:1482:MET:HG3	2.14	0.48
3:k:1041:PRO:CA	3:k:1161:THR:HG21	2.43	0.48
3:k:1112:ILE:HG13	3:k:1113:GLU:N	2.29	0.48
6:n:1043:LEU:CD2	6:n:1161:LYS:HA	2.40	0.48
6:n:1160:THR:N	6:n:1164:ALA:CB	2.76	0.48
6:n:1353:LEU:H	6:n:1369:GLU:HB3	1.77	0.48
6:n:1485:GLU:CG	6:n:1489:VAL:HB	2.44	0.48
7:o:1044:LEU:HB2	7:o:1456:ASN:ND2	2.28	0.48
8:p:1310:LEU:HD13	8:p:1314:ASN:OD1	2.14	0.48
1:A:162:THR:HG21	1:A:518:LEU:O	2.13	0.47
2:B:88:VAL:CG1	2:B:393:GLN:HE22	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:124:TYR:N	2:B:124:TYR:HD1	2.12	0.47
2:B:282:ASN:ND2	2:B:303:ILE:HB	2.29	0.47
3:C:39:LEU:CB	9:C:1101:ADP:O2A	2.62	0.47
3:C:225:LEU:HD13	3:C:320:VAL:HG11	1.96	0.47
4:D:81:VAL:HG21	4:D:514:CYS:SG	2.54	0.47
5:E:85:ASN:ND2	9:E:601:ADP:O3B	2.46	0.47
6:F:167:THR:CB	6:F:169:VAL:N	2.64	0.47
7:G:208:ALA:O	7:G:211:GLU:HB2	2.14	0.47
7:G:500:ALA:O	7:G:504:ILE:HG13	2.14	0.47
8:H:79:HIS:CE1	8:H:81:ALA:HB3	2.48	0.47
1:I:162:THR:HG21	1:I:518:LEU:O	2.13	0.47
3:K:225:LEU:HD13	3:K:320:VAL:HG11	1.96	0.47
3:K:471:LEU:HG	3:K:491:ILE:HG13	1.96	0.47
4:L:8:ASN:O	4:L:8:ASN:OD1	2.31	0.47
4:L:260:MET:O	4:L:263:ILE:HG22	2.13	0.47
4:L:298:ASN:HB3	4:L:299:ASP:CA	2.43	0.47
4:L:523:ASP:C	7:O:51:ILE:HG23	2.37	0.47
5:M:355:ALA:CB	6:N:222:PRO:HG2	2.43	0.47
6:N:47:VAL:HG12	6:N:48:ASP:N	2.28	0.47
6:N:71:PRO:HG2	6:N:533:LEU:HD12	1.94	0.47
6:N:81:ALA:O	6:N:82:ALA:C	2.57	0.47
6:N:454:ILE:N	6:N:455:PRO:HD2	2.29	0.47
7:O:115:PHE:CE1	7:O:437:MET:HB3	2.49	0.47
7:O:214:PHE:O	7:O:214:PHE:CG	2.67	0.47
8:P:310:LEU:HD13	8:P:314:ASN:OD1	2.14	0.47
8:P:396:ASP:HA	8:P:399:ARG:HH11	1.79	0.47
1:a:1264:ILE:O	1:a:1264:ILE:HD12	2.14	0.47
2:b:1469:THR:CG2	2:b:1481:ASP:HB2	2.44	0.47
2:b:1514:ILE:HG22	2:b:1515:ILE:H	1.78	0.47
3:c:1035:ILE:C	3:c:1037:THR:H	2.22	0.47
5:e:1193:VAL:O	5:e:1193:VAL:HG12	2.14	0.47
6:f:1022:ASN:O	6:f:1072:THR:HG21	2.14	0.47
6:f:1195:GLU:CD	6:f:1197:MET:SD	2.97	0.47
6:f:1224:MET:HE2	6:f:1315:LEU:HA	1.96	0.47
7:g:1051:ILE:HB	7:g:1069:ILE:HD11	1.96	0.47
2:j:1063:ILE:CG2	2:j:1064:LEU:HG	2.44	0.47
2:j:1160:THR:HG21	2:j:1390:VAL:HG21	1.94	0.47
2:j:1502:SER:HA	2:j:1505:ALA:HB3	1.94	0.47
3:k:1142:PRO:HG3	3:k:1411:SER:CA	2.44	0.47
3:k:1202:ARG:O	3:k:1204:VAL:O	2.32	0.47
5:m:1032:VAL:CG2	5:m:1033:LYS:H	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:n:1028:GLY:C	6:n:1030:GLN:H	2.22	0.47
6:n:1237:ASN:HA	6:n:1297:ASN:OD1	2.13	0.47
6:n:1436:ALA:HA	6:n:1437:LYS:HA	1.66	0.47
2:B:242:LYS:HE2	2:B:247:GLY:N	2.26	0.47
4:D:174:ALA:O	4:D:178:VAL:HG23	2.13	0.47
4:D:298:ASN:HB3	4:D:299:ASP:CA	2.43	0.47
4:D:436:GLN:H	4:D:436:GLN:CD	2.22	0.47
5:E:32:VAL:CG2	5:E:33:LYS:H	2.15	0.47
5:E:175:LEU:HD12	5:E:175:LEU:O	2.14	0.47
5:E:250:SER:HB3	5:E:342:ALA:O	2.14	0.47
5:E:277:GLU:CB	5:E:278:PRO:HD2	2.44	0.47
6:F:81:ALA:O	6:F:82:ALA:C	2.57	0.47
6:F:414:GLY:O	6:F:415:ALA:CB	2.62	0.47
7:G:108:LEU:O	7:G:108:LEU:HD23	2.13	0.47
7:G:120:ILE:HG23	8:P:472:ASN:ND2	2.30	0.47
8:H:6:PRO:CG	4:L:71:LEU:HA	2.35	0.47
8:H:167:ILE:HD11	8:H:182:VAL:HG21	1.96	0.47
8:H:248:ALA:HB2	8:H:352:LEU:HD13	1.95	0.47
2:J:237:THR:N	2:J:287:ARG:HD2	2.28	0.47
2:J:410:VAL:HB	2:J:468:SER:OG	2.13	0.47
3:K:129:LEU:HD23	3:K:510:VAL:HG12	1.96	0.47
4:L:434:GLY:HA3	4:L:436:GLN:OE1	2.14	0.47
6:N:86:ILE:HG23	6:N:87:THR:HG23	1.96	0.47
7:O:241:ILE:HG12	7:O:292:ILE:CG2	2.44	0.47
8:P:248:ALA:HB2	8:P:352:LEU:CD1	2.44	0.47
8:P:482:HIS:C	8:P:484:VAL:N	2.65	0.47
2:b:1032:LEU:HG	6:f:1532:GLU:OE1	2.13	0.47
2:b:1063:ILE:CG2	2:b:1064:LEU:HG	2.44	0.47
2:b:1102:LEU:HD23	2:b:1102:LEU:C	2.39	0.47
2:b:1142:ASN:CB	2:b:1143:SER:HA	2.18	0.47
2:b:1477:GLY:O	2:b:1478:THR:CB	2.62	0.47
3:c:1119:VAL:HG21	8:h:1049:CYS:HA	1.96	0.47
3:c:1202:ARG:O	3:c:1204:VAL:O	2.32	0.47
4:d:1291:SER:HA	4:d:1315:ASP:CA	2.44	0.47
6:f:1420:ILE:CG2	6:f:1482:ASP:CG	2.86	0.47
6:f:1430:ASN:HA	6:f:1433:LYS:HB2	1.96	0.47
7:g:1396:ALA:O	7:g:1397:ILE:C	2.55	0.47
8:h:1310:LEU:HD13	8:h:1314:ASN:OD1	2.14	0.47
2:j:1118:GLN:O	2:j:1121:ILE:HG12	2.14	0.47
2:j:1492:LYS:H	2:j:1492:LYS:HZ1	1.63	0.47
4:l:1434:GLY:HA3	4:l:1436:GLN:OE1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:m:1535:LYS:HD2	5:m:1535:LYS:C	2.38	0.47
6:n:1195:GLU:CD	6:n:1197:MET:SD	2.97	0.47
7:o:1217:GLY:HA3	7:o:1366:GLN:HA	1.95	0.47
7:o:1396:ALA:O	7:o:1397:ILE:C	2.55	0.47
8:p:1031:SER:HB2	8:p:1079:HIS:HE1	1.78	0.47
8:p:1248:ALA:HB2	8:p:1352:LEU:CD1	2.44	0.47
1:A:540:ARG:HA	5:E:70:LEU:HD22	1.95	0.47
2:B:59:ASP:HB3	2:B:62:THR:OG1	2.14	0.47
2:B:422:ILE:HG22	2:B:424:GLY:H	1.75	0.47
4:D:328:LEU:O	4:D:345:ASP:CG	2.57	0.47
5:E:74:LEU:HD12	5:E:93:GLN:HB3	1.96	0.47
5:E:428:CYS:O	5:E:431:ARG:HG3	2.15	0.47
6:F:5:LEU:HB3	6:F:6:LEU:C	2.39	0.47
7:G:249:GLU:O	7:G:250:LEU:C	2.55	0.47
8:H:248:ALA:HB2	8:H:352:LEU:CD1	2.44	0.47
1:I:14:PHE:CB	1:I:15:LEU:HA	2.43	0.47
2:J:124:TYR:N	2:J:124:TYR:CD1	2.82	0.47
3:K:84:THR:HG21	8:P:389:ALA:HA	1.97	0.47
3:K:117:HIS:HE1	8:P:50:GLY:O	1.97	0.47
3:K:170:LYS:HD3	3:K:170:LYS:O	2.14	0.47
3:K:479:ASN:HB3	3:K:482:THR:OG1	2.14	0.47
4:L:350:VAL:HG22	4:L:363:VAL:HG13	1.97	0.47
7:O:143:LEU:HD22	7:O:411:ALA:HB2	1.94	0.47
8:P:482:HIS:C	8:P:484:VAL:H	2.18	0.47
1:a:1336:THR:HB	1:a:1354:TYR:HD1	1.80	0.47
1:a:1350:PHE:HE2	1:a:1354:TYR:CB	2.16	0.47
2:b:1243:VAL:HG12	2:b:1245:ILE:N	2.29	0.47
3:c:1142:PRO:HG3	3:c:1411:SER:CA	2.44	0.47
4:d:1135:LEU:CD1	4:d:1411:ILE:HD11	2.43	0.47
4:d:1352:GLU:HA	4:d:1361:VAL:HA	1.95	0.47
5:e:1035:GLN:CD	5:e:1036:GLY:CA	2.86	0.47
5:e:1127:SER:O	5:e:1128:ALA:C	2.57	0.47
5:e:1215:ASP:O	5:e:1216:ARG:CB	2.62	0.47
6:f:1485:GLU:CG	6:f:1489:VAL:HB	2.44	0.47
8:h:1077:ILE:H	8:h:1077:ILE:CD1	2.26	0.47
8:h:1396:ASP:HA	8:h:1399:ARG:HH11	1.79	0.47
3:k:1129:LEU:HD23	3:k:1510:VAL:HG12	1.96	0.47
3:k:1348:VAL:HG12	3:k:1349:GLY:N	2.30	0.47
5:m:1176:PHE:O	5:m:1180:LEU:HD23	2.15	0.47
6:n:1076:ILE:HG21	6:n:1095:VAL:HG13	1.96	0.47
7:o:1043:THR:HG21	7:o:1064:ASN:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1051:ILE:HB	7:o:1069:ILE:HD11	1.96	0.47
8:p:1348:THR:O	8:p:1352:LEU:HD23	2.13	0.47
8:p:1442:PRO:HA	8:p:1446:GLN:HE21	1.80	0.47
8:H:423:ALA:CA	9:H:601:ADP:H2'	2.31	0.47
1:I:221:GLY:HA2	1:I:382:SER:CB	2.42	0.47
2:J:63:ILE:CG2	2:J:64:LEU:HG	2.44	0.47
2:J:118:GLN:O	2:J:121:ILE:HG12	2.14	0.47
2:J:263:LYS:HZ1	3:K:266:GLU:HG2	1.78	0.47
2:J:282:ASN:ND2	2:J:303:ILE:HB	2.29	0.47
2:J:469:THR:CG2	2:J:481:ASP:HB2	2.44	0.47
3:K:237:HIS:C	3:K:238:ILE:HG13	2.40	0.47
3:K:495:VAL:HG23	3:K:500:TRP:CH2	2.48	0.47
5:M:175:LEU:HD12	5:M:175:LEU:O	2.14	0.47
6:N:213:LEU:HD23	6:N:377:THR:CG2	2.40	0.47
9:N:601:ADP:O2'	9:N:601:ADP:H8	1.97	0.47
7:O:43:THR:HG21	7:O:64:ASN:O	2.13	0.47
2:b:1124:TYR:N	2:b:1124:TYR:CD1	2.82	0.47
2:b:1377:LEU:HD12	2:b:1377:LEU:H	1.79	0.47
3:c:1175:ALA:O	3:c:1179:VAL:HG23	2.15	0.47
5:e:1346:VAL:O	5:e:1347:GLY:C	2.57	0.47
5:e:1428:CYS:O	5:e:1431:ARG:HG3	2.15	0.47
6:f:1430:ASN:C	6:f:1432:ASN:H	2.22	0.47
6:f:1486:THR:O	6:f:1487:ARG:CB	2.62	0.47
7:g:1208:ALA:O	7:g:1211:GLU:HB2	2.14	0.47
2:j:1027:ILE:O	2:j:1027:ILE:HG12	2.15	0.47
2:j:1285:ILE:HD13	2:j:1285:ILE:H	1.78	0.47
3:k:1479:ASN:HB3	3:k:1482:THR:OG1	2.14	0.47
4:l:1292:ILE:N	4:l:1293:LEU:CA	2.73	0.47
4:l:1350:VAL:HG22	4:l:1363:VAL:HG13	1.97	0.47
5:m:1133:ALA:HB2	5:m:1150:PHE:HE2	1.79	0.47
5:m:1215:ASP:O	5:m:1216:ARG:CB	2.62	0.47
5:m:1450:MET:HE3	5:m:1454:VAL:CG2	2.45	0.47
6:n:1060:LYS:O	6:n:1064:THR:OG1	2.25	0.47
8:p:1164:LYS:HB3	8:p:1165:PRO:HD3	1.96	0.47
1:A:419:VAL:CG1	1:A:425:VAL:HG21	2.44	0.47
2:B:285:ILE:HD13	2:B:285:ILE:H	1.78	0.47
2:B:289:LEU:HD21	2:B:304:ASN:OD1	2.15	0.47
2:B:410:VAL:HB	2:B:468:SER:OG	2.13	0.47
2:B:514:ILE:HG23	3:C:47:MET:O	2.14	0.47
3:C:47:MET:HG2	3:C:48:LEU:N	2.30	0.47
3:C:457:ILE:HG22	3:C:462:GLY:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:81:VAL:HA	7:G:382:ALA:HB2	1.96	0.47
5:E:150:PHE:CD1	5:E:472:PHE:CE2	3.03	0.47
6:F:224:MET:HE2	6:F:315:LEU:HA	1.96	0.47
6:F:424:ARG:HA	6:F:424:ARG:NE	2.12	0.47
7:G:117:GLU:CD	7:G:117:GLU:N	2.73	0.47
7:G:217:GLY:O	7:G:375:THR:HG22	2.15	0.47
7:G:235:LYS:CB	7:G:353:GLU:HA	2.44	0.47
8:H:164:LYS:HB3	8:H:165:PRO:HD3	1.96	0.47
8:H:243:LYS:HB3	8:H:244:LYS:NZ	2.29	0.47
2:J:289:LEU:HD21	2:J:304:ASN:OD1	2.15	0.47
2:J:402:LEU:CD1	2:J:483:ARG:HE	2.24	0.47
3:K:108:ALA:O	3:K:112:ILE:HG23	2.15	0.47
3:K:174:LEU:HG	3:K:219:VAL:HG22	1.96	0.47
3:K:414:PRO:O	3:K:419:THR:HG23	2.14	0.47
4:L:292:ILE:N	4:L:293:LEU:CA	2.73	0.47
5:M:133:ALA:HB2	5:M:150:PHE:HE2	1.79	0.47
5:M:189:GLY:O	5:M:190:SER:CB	2.61	0.47
6:N:108:PHE:CE1	6:N:118:ILE:HG13	2.50	0.47
6:N:352:GLY:C	6:N:367:VAL:HG12	2.40	0.47
7:O:117:GLU:CD	7:O:117:GLU:N	2.73	0.47
7:O:452:GLN:HA	7:O:455:GLU:HB2	1.96	0.47
8:P:31:SER:HB2	8:P:79:HIS:HE1	1.78	0.47
8:P:243:LYS:HB3	8:P:244:LYS:NZ	2.29	0.47
8:P:348:THR:O	8:P:352:LEU:HD23	2.13	0.47
1:a:1094:ILE:HD12	1:a:1094:ILE:N	2.29	0.47
2:b:1282:ASN:ND2	2:b:1303:ILE:HB	2.29	0.47
3:c:1471:LEU:HG	3:c:1491:ILE:HG13	1.96	0.47
4:d:1174:ALA:O	4:d:1178:VAL:HG23	2.13	0.47
4:d:1350:VAL:HG22	4:d:1363:VAL:HG13	1.97	0.47
6:f:1028:GLY:C	6:f:1030:GLN:H	2.22	0.47
7:g:1115:PHE:CE1	7:g:1437:MET:HB3	2.49	0.47
7:g:1144:ALA:HA	7:g:1409:ILE:O	2.14	0.47
7:g:1217:GLY:O	7:g:1375:THR:HG22	2.15	0.47
7:g:1452:GLN:HA	7:g:1455:GLU:HB2	1.96	0.47
7:g:1455:GLU:HG3	7:g:1461:ALA:HB3	1.96	0.47
1:i:1162:THR:HG21	1:i:1518:LEU:O	2.13	0.47
2:j:1459:LEU:HD11	2:j:1471:GLY:C	2.40	0.47
2:j:1477:GLY:O	2:j:1478:THR:CB	2.62	0.47
2:j:1514:ILE:HG22	2:j:1515:ILE:H	1.78	0.47
5:m:1351:LEU:HD22	5:m:1352:GLU:N	2.29	0.47
5:m:1428:CYS:O	5:m:1431:ARG:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:93:THR:OG1	9:B:601:ADP:O2A	2.31	0.47
6:F:195:GLU:CD	6:F:197:MET:SD	2.97	0.47
1:I:145:SER:O	1:I:148:VAL:HG23	2.15	0.47
3:K:162:LYS:C	3:K:164:VAL:H	2.22	0.47
5:M:150:PHE:CD1	5:M:472:PHE:CE2	3.03	0.47
5:M:535:LYS:HD2	5:M:535:LYS:C	2.38	0.47
6:N:280:LEU:HD23	6:N:280:LEU:N	2.27	0.47
2:b:1003:VAL:HB	2:b:1004:GLN:CD	2.40	0.47
2:b:1027:ILE:O	2:b:1027:ILE:HG12	2.15	0.47
2:b:1118:GLN:O	2:b:1121:ILE:HG12	2.14	0.47
2:b:1490:SER:HB2	2:b:1492:LYS:HZ1	1.79	0.47
3:c:1009:ASN:ND2	3:c:1010:ALA:H	2.11	0.47
3:c:1237:HIS:C	3:c:1238:ILE:HG13	2.40	0.47
5:e:1373:LYS:HE2	6:f:1311:LYS:NZ	2.28	0.47
7:g:1017:THR:HG22	7:g:1526:ASN:HD22	1.80	0.47
7:g:1235:LYS:CB	7:g:1353:GLU:HA	2.44	0.47
7:g:1516:LEU:HD22	7:g:1517:ILE:CA	2.42	0.47
8:h:1164:LYS:HB3	8:h:1165:PRO:HD3	1.96	0.47
8:h:1243:LYS:HB3	8:h:1244:LYS:NZ	2.29	0.47
1:i:1156:LEU:HD23	1:i:1156:LEU:O	2.14	0.47
3:k:1108:ALA:O	3:k:1112:ILE:HG23	2.15	0.47
3:k:1117:HIS:CG	3:k:1118:PRO:HD2	2.50	0.47
4:l:1291:SER:HA	4:l:1315:ASP:CA	2.44	0.47
5:m:1477:ASP:C	5:m:1480:PRO:HD2	2.39	0.47
6:n:1086:ILE:HG23	6:n:1087:THR:HG23	1.96	0.47
6:n:1454:ILE:N	6:n:1455:PRO:HD2	2.29	0.47
6:n:1486:THR:O	6:n:1487:ARG:CB	2.62	0.47
7:o:1097:GLY:O	7:o:1101:VAL:HG23	2.14	0.47
7:o:1117:GLU:CD	7:o:1117:GLU:N	2.73	0.47
1:A:178:ASN:HD21	1:A:182:ASP:CG	2.23	0.47
2:B:102:LEU:HD23	2:B:102:LEU:C	2.39	0.47
2:B:124:TYR:N	2:B:124:TYR:CD1	2.82	0.47
2:B:142:ASN:CB	2:B:143:SER:HA	2.18	0.47
2:B:463:ILE:HD11	2:B:468:SER:OG	2.15	0.47
3:C:108:ALA:O	3:C:112:ILE:HG23	2.15	0.47
3:C:112:ILE:HG13	3:C:113:GLU:N	2.29	0.47
3:C:117:HIS:CG	3:C:118:PRO:HD2	2.50	0.47
3:C:174:LEU:HG	3:C:219:VAL:HG22	1.96	0.47
4:D:24:ASN:ND2	4:D:524:ILE:HD11	2.29	0.47
4:D:72:HIS:CD2	8:H:15:LYS:HZ2	2.33	0.47
4:D:350:VAL:HG22	4:D:363:VAL:HG13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:352:GLU:HA	4:D:361:VAL:HA	1.95	0.47
4:D:521:ILE:CB	7:G:50:ASP:O	2.61	0.47
5:E:88:ALA:HB1	5:E:109:LYS:HZ2	1.77	0.47
6:F:3:LEU:N	6:F:3:LEU:HD22	2.30	0.47
6:F:86:ILE:HG23	6:F:87:THR:HG23	1.96	0.47
6:F:424:ARG:HE	6:F:424:ARG:CA	2.17	0.47
6:F:485:GLU:CG	6:F:489:VAL:HB	2.44	0.47
7:G:204:ILE:O	7:G:379:ARG:HD3	2.14	0.47
7:G:217:GLY:HA3	7:G:366:GLN:HA	1.95	0.47
7:G:279:PHE:O	7:G:282:LEU:HD12	2.15	0.47
7:G:292:ILE:N	7:G:312:ILE:HG13	2.30	0.47
8:H:35:ILE:HD13	8:H:82:VAL:HA	1.95	0.47
8:H:99:GLY:O	8:H:103:VAL:HG23	2.15	0.47
8:H:396:ASP:HA	8:H:399:ARG:HH11	1.79	0.47
1:I:156:LEU:HD23	1:I:156:LEU:O	2.14	0.47
1:I:178:ASN:HD21	1:I:182:ASP:CG	2.23	0.47
1:I:476:LYS:C	1:I:509:ILE:HD11	2.40	0.47
2:J:3:VAL:HB	2:J:4:GLN:CD	2.40	0.47
2:J:60:GLY:O	2:J:63:ILE:HG22	2.15	0.47
2:J:403:GLY:O	2:J:482:MET:HG3	2.14	0.47
2:J:463:ILE:HD11	2:J:468:SER:OG	2.15	0.47
3:K:25:ILE:HD13	3:K:26:THR:N	2.30	0.47
3:K:142:PRO:HG3	3:K:411:SER:CA	2.44	0.47
3:K:175:ALA:O	3:K:179:VAL:HG23	2.14	0.47
3:K:457:ILE:HG22	3:K:462:GLY:O	2.14	0.47
4:L:436:GLN:H	4:L:436:GLN:CD	2.22	0.47
5:M:127:SER:O	5:M:128:ALA:C	2.57	0.47
5:M:477:ASP:C	5:M:480:PRO:HD2	2.39	0.47
6:N:3:LEU:N	6:N:3:LEU:HD22	2.30	0.47
6:N:5:LEU:HB3	6:N:6:LEU:C	2.39	0.47
6:N:22:ASN:O	6:N:72:THR:HG21	2.14	0.47
6:N:430:ASN:C	6:N:432:ASN:H	2.22	0.47
7:O:51:ILE:HB	7:O:69:ILE:HD11	1.96	0.47
1:a:1014:PHE:CB	1:a:1015:LEU:HA	2.43	0.47
1:a:1156:LEU:HD23	1:a:1156:LEU:O	2.14	0.47
2:b:1289:LEU:HD21	2:b:1304:ASN:OD1	2.15	0.47
2:b:1463:ILE:HD11	2:b:1468:SER:OG	2.15	0.47
3:c:1115:ASN:CB	1:i:1470:SER:H	2.28	0.47
3:c:1170:LYS:HD3	3:c:1170:LYS:O	2.14	0.47
3:c:1230:VAL:HG21	3:c:1303:ASP:H	1.80	0.47
3:c:1318:ARG:O	3:c:1319:ARG:C	2.56	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1008:ASN:OD1	4:d:1008:ASN:O	2.31	0.47
4:d:1436:GLN:H	4:d:1436:GLN:CD	2.22	0.47
5:e:1351:LEU:HD22	5:e:1352:GLU:N	2.29	0.47
5:e:1450:MET:HE3	5:e:1454:VAL:CG2	2.45	0.47
6:f:1081:ALA:O	6:f:1082:ALA:C	2.57	0.47
6:f:1143:LEU:HD21	6:f:1145:ASN:HB3	1.97	0.47
6:f:1415:ALA:HA	9:f:1601:ADP:H1'	1.95	0.47
7:g:1060:THR:HG23	7:g:1060:THR:O	2.15	0.47
7:g:1083:LEU:HD23	7:g:1086:ILE:CD1	2.44	0.47
7:g:1455:GLU:N	7:g:1461:ALA:HB2	2.29	0.47
1:i:1014:PHE:CB	1:i:1015:LEU:HA	2.43	0.47
1:i:1047:VAL:HG13	7:o:1123:HIS:NE2	2.29	0.47
1:i:1273:ILE:HG23	5:m:1292:VAL:HB	1.96	0.47
1:i:1480:TYR:O	1:i:1483:ALA:CB	2.63	0.47
2:j:1003:VAL:HB	2:j:1004:GLN:CD	2.40	0.47
2:j:1060:GLY:O	2:j:1063:ILE:HG22	2.15	0.47
2:j:1083:VAL:HG13	3:k:1211:GLY:HA2	1.96	0.47
2:j:1124:TYR:N	2:j:1124:TYR:CD1	2.82	0.47
2:j:1282:ASN:ND2	2:j:1303:ILE:HB	2.29	0.47
2:j:1438:ARG:O	2:j:1441:PRO:HG2	2.14	0.47
3:k:1025:ILE:HD13	3:k:1026:THR:N	2.30	0.47
3:k:1162:LYS:C	3:k:1164:VAL:H	2.22	0.47
3:k:1318:ARG:O	3:k:1319:ARG:C	2.56	0.47
4:l:1081:VAL:HA	7:o:1382:ALA:HB2	1.97	0.47
6:n:1003:LEU:N	6:n:1003:LEU:HD22	2.30	0.47
6:n:1182:TYR:C	6:n:1184:ALA:N	2.73	0.47
6:n:1224:MET:HE1	6:n:1316:ALA:N	2.16	0.47
6:n:1429:ALA:O	6:n:1433:LYS:HD3	2.14	0.47
6:n:1430:ASN:HA	6:n:1433:LYS:HB2	1.96	0.47
7:o:1017:THR:HG22	7:o:1526:ASN:HD22	1.80	0.47
7:o:1144:ALA:HA	7:o:1409:ILE:O	2.15	0.47
7:o:1208:ALA:O	7:o:1211:GLU:HB2	2.14	0.47
7:o:1214:PHE:O	7:o:1214:PHE:CG	2.67	0.47
7:o:1292:ILE:N	7:o:1312:ILE:HG13	2.30	0.47
8:p:1006:PRO:CB	8:p:1007:GLN:HG3	2.38	0.47
8:p:1184:GLU:O	8:p:1188:HIS:HD2	1.97	0.47
2:B:3:VAL:HB	2:B:4:GLN:CD	2.40	0.47
2:B:162:SER:O	2:B:163:SER:OG	2.30	0.47
2:B:232:LEU:HD22	2:B:233:ILE:H	1.80	0.47
2:B:328:THR:O	2:B:329:PHE:CB	2.62	0.47
3:C:25:ILE:HD13	3:C:26:THR:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:41:PRO:CA	3:C:161:THR:HG21	2.43	0.47
3:C:262:GLU:H	8:H:266:LEU:CD1	2.28	0.47
5:E:84:THR:CG2	5:E:85:ASN:N	2.78	0.47
5:E:176:PHE:O	5:E:180:LEU:HD23	2.15	0.47
5:E:450:MET:HE3	5:E:454:VAL:CG2	2.45	0.47
5:E:477:ASP:C	5:E:480:PRO:HD2	2.39	0.47
7:G:409:ILE:CG2	7:G:410:VAL:H	2.28	0.47
3:K:9:ASN:ND2	3:K:10:ALA:H	2.11	0.47
3:K:117:HIS:CG	3:K:118:PRO:HD2	2.50	0.47
5:M:428:CYS:O	5:M:431:ARG:HG3	2.14	0.47
5:M:547:MET:SD	6:N:387:ALA:HA	2.55	0.47
6:N:16:ASP:OD1	6:N:16:ASP:N	2.36	0.47
6:N:76:ILE:HG21	6:N:95:VAL:HG13	1.96	0.47
6:N:224:MET:HE1	6:N:316:ALA:N	2.16	0.47
6:N:224:MET:HE2	6:N:315:LEU:HA	1.96	0.47
6:N:353:LEU:HB2	6:N:368:THR:HG1	1.80	0.47
7:O:94:VAL:CG1	7:O:95:GLY:H	2.28	0.47
7:O:217:GLY:HA3	7:O:365:PHE:O	2.15	0.47
7:O:455:GLU:N	7:O:461:ALA:HB2	2.29	0.47
3:c:1225:LEU:HD13	3:c:1320:VAL:HG11	1.96	0.47
3:c:1268:ASP:O	3:c:1272:ILE:HG12	2.14	0.47
4:d:1066:LYS:HA	4:d:1066:LYS:HD2	1.62	0.47
8:h:1442:PRO:HA	8:h:1446:GLN:HE21	1.80	0.47
1:i:1128:GLY:O	1:i:1448:ILE:HD13	2.15	0.47
1:i:1336:THR:HB	1:i:1354:TYR:HD1	1.80	0.47
2:j:1040:LYS:NZ	6:n:1117:ILE:HG13	2.29	0.47
2:j:1328:THR:O	2:j:1329:PHE:CB	2.62	0.47
2:j:1469:THR:CG2	2:j:1481:ASP:HB2	2.44	0.47
3:k:1175:ALA:O	3:k:1179:VAL:HG23	2.15	0.47
4:l:1254:VAL:HG21	8:p:1265:VAL:HG22	1.96	0.47
5:m:1127:SER:O	5:m:1128:ALA:C	2.57	0.47
5:m:1301:TYR:HA	5:m:1304:ASP:OD2	2.15	0.47
5:m:1527:VAL:HG13	9:m:1601:ADP:HN61	1.78	0.47
6:n:1056:THR:HB	6:n:1390:GLN:HE22	1.79	0.47
6:n:1081:ALA:O	6:n:1082:ALA:C	2.57	0.47
6:n:1138:ILE:O	6:n:1138:ILE:CG2	2.58	0.47
6:n:1243:GLU:OE2	6:n:1243:GLU:CA	2.52	0.47
6:n:1430:ASN:C	6:n:1432:ASN:H	2.22	0.47
7:o:1060:THR:HG23	7:o:1060:THR:O	2.15	0.47
7:o:1115:PHE:CE1	7:o:1437:MET:HB3	2.49	0.47
7:o:1204:ILE:O	7:o:1379:ARG:HD3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:p:1099:GLY:O	8:p:1103:VAL:HG23	2.15	0.47
1:A:12:THR:CB	5:E:96:LEU:HA	2.44	0.47
1:A:480:TYR:O	1:A:483:ALA:CB	2.63	0.47
2:B:42:MET:HE3	2:B:42:MET:HA	1.96	0.47
2:B:403:GLY:O	2:B:482:MET:HG3	2.14	0.47
3:C:142:PRO:HG3	3:C:411:SER:CA	2.44	0.47
3:C:202:ARG:O	3:C:204:VAL:O	2.32	0.47
3:C:348:VAL:HG12	3:C:349:GLY:N	2.30	0.47
4:D:70:ILE:HA	8:H:15:LYS:HZ3	1.79	0.47
4:D:178:VAL:CB	4:D:401:ILE:HD11	2.45	0.47
6:F:430:ASN:HA	6:F:433:LYS:HB2	1.96	0.47
6:F:454:ILE:HB	6:F:455:PRO:HD3	1.97	0.47
2:J:324:GLU:H	3:K:311:LYS:NZ	2.12	0.47
2:J:494:LYS:HD2	2:J:494:LYS:HA	1.79	0.47
3:K:112:ILE:HG13	3:K:113:GLU:N	2.29	0.47
3:K:246:LEU:O	3:K:247:ASP:HB3	2.15	0.47
3:K:348:VAL:HG12	3:K:349:GLY:N	2.30	0.47
4:L:92:GLY:O	4:L:96:VAL:HG23	2.15	0.47
4:L:134:ILE:HD12	4:L:421:ILE:HD13	1.95	0.47
4:L:174:ALA:O	4:L:178:VAL:HG23	2.13	0.47
4:L:352:GLU:HA	4:L:361:VAL:HA	1.95	0.47
4:L:461:ASN:HD22	4:L:462:SER:N	2.13	0.47
4:L:523:ASP:O	7:O:51:ILE:CG2	2.53	0.47
5:M:277:GLU:CB	5:M:278:PRO:HD2	2.44	0.47
5:M:450:MET:HE3	5:M:454:VAL:CG2	2.45	0.47
7:O:455:GLU:HG3	7:O:461:ALA:HB3	1.97	0.47
8:P:35:ILE:HD13	8:P:82:VAL:HA	1.95	0.47
8:P:99:GLY:O	8:P:103:VAL:HG23	2.15	0.47
1:a:1128:GLY:O	1:a:1448:ILE:HD13	2.15	0.47
2:b:1045:LEU:HD12	6:f:1533:LEU:HD13	1.97	0.47
2:b:1348:LEU:HD21	6:f:1086:ILE:O	2.15	0.47
2:b:1403:GLY:O	2:b:1482:MET:HG3	2.14	0.47
3:c:1047:MET:HG2	3:c:1048:LEU:N	2.30	0.47
3:c:1112:ILE:HG13	3:c:1113:GLU:N	2.29	0.47
4:d:1461:ASN:HD22	4:d:1462:SER:N	2.13	0.47
5:e:1034:ASP:C	6:n:1117:ILE:HD12	2.40	0.47
5:e:1176:PHE:O	5:e:1180:LEU:HD23	2.15	0.47
5:e:1297:LYS:HD2	5:e:1297:LYS:HA	1.66	0.47
6:f:1454:ILE:N	6:f:1455:PRO:HD2	2.29	0.47
7:g:1500:ALA:O	7:g:1504:ILE:HG13	2.14	0.47
6:n:1538:ARG:CG	6:n:1538:ARG:NH1	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:29:VAL:C	2:B:33:VAL:CG2	2.88	0.47
2:B:165:ILE:HD13	6:F:526:ASN:HB2	1.97	0.47
2:B:438:ARG:O	2:B:441:PRO:HG2	2.14	0.47
3:C:275:ILE:O	8:H:274:LEU:HD21	2.15	0.47
4:D:292:ILE:N	4:D:293:LEU:CA	2.73	0.47
4:D:434:GLY:HA3	4:D:436:GLN:OE1	2.14	0.47
5:E:240:ILE:HG12	5:E:244:ILE:HG21	1.94	0.47
5:E:262:GLU:HA	5:E:263:GLY:HA2	1.67	0.47
6:F:141:THR:CB	6:F:409:LYS:HG3	2.45	0.47
7:G:217:GLY:HA3	7:G:365:PHE:O	2.15	0.47
8:H:6:PRO:CB	8:H:7:GLN:HG3	2.38	0.47
1:I:29:ASN:HD22	1:I:538:ILE:HG23	1.80	0.47
1:I:419:VAL:CG1	1:I:425:VAL:HG21	2.44	0.47
2:J:263:LYS:HZ1	3:K:266:GLU:CG	2.26	0.47
2:J:477:GLY:O	2:J:478:THR:CB	2.62	0.47
5:M:210:ASN:HD22	5:M:210:ASN:N	2.08	0.47
7:O:279:PHE:O	7:O:282:LEU:HD12	2.15	0.47
7:O:354:GLU:HA	7:O:363:ASN:HA	1.97	0.47
1:a:1476:LYS:C	1:a:1509:ILE:HD11	2.40	0.47
2:b:1186:GLY:HA2	2:b:1187:SER:HA	1.47	0.47
3:c:1246:LEU:O	3:c:1247:ASP:HB3	2.15	0.47
4:d:1434:GLY:HA3	4:d:1436:GLN:OE1	2.14	0.47
5:e:1032:VAL:CG2	5:e:1033:LYS:H	2.15	0.47
5:e:1301:TYR:HA	5:e:1304:ASP:OD2	2.15	0.47
6:f:1352:GLY:C	6:f:1367:VAL:HG12	2.40	0.47
7:g:1279:PHE:O	7:g:1282:LEU:HD12	2.15	0.47
8:h:1184:GLU:O	8:h:1188:HIS:HD2	1.97	0.47
1:i:1069:ILE:O	1:i:1073:LEU:HD13	2.15	0.47
1:i:1145:SER:O	1:i:1148:VAL:HG23	2.15	0.47
1:i:1476:LYS:C	1:i:1509:ILE:HD11	2.40	0.47
3:k:1457:ILE:HG22	3:k:1462:GLY:O	2.14	0.47
4:l:1436:GLN:H	4:l:1436:GLN:CD	2.22	0.47
5:m:1277:GLU:CB	5:m:1278:PRO:HD2	2.44	0.47
5:m:1346:VAL:O	5:m:1347:GLY:C	2.57	0.47
6:n:1166:LEU:HG	6:n:1167:THR:OG1	2.15	0.47
7:o:1279:PHE:O	7:o:1282:LEU:HD12	2.15	0.47
7:o:1354:GLU:HA	7:o:1363:ASN:HA	1.97	0.47
7:o:1455:GLU:HG3	7:o:1461:ALA:HB3	1.96	0.47
8:p:1237:LYS:HB3	8:p:1314:ASN:HB3	1.63	0.47
1:A:16:GLY:CA	1:A:548:ASP:HB3	2.44	0.46
1:A:128:GLY:O	1:A:448:ILE:HD13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:145:SER:O	1:A:148:VAL:HG23	2.15	0.46
4:D:496:HIS:O	4:D:498:LEU:HD12	2.15	0.46
4:D:521:ILE:CD1	7:G:62:ILE:HD12	2.44	0.46
6:F:395:VAL:O	6:F:399:LEU:HB3	2.14	0.46
7:G:17:THR:HG22	7:G:526:ASN:HD22	1.80	0.46
7:G:115:PHE:CE1	7:G:437:MET:HB3	2.49	0.46
7:G:354:GLU:HA	7:G:363:ASN:HA	1.97	0.46
8:H:442:PRO:HA	8:H:446:GLN:HE21	1.80	0.46
1:I:54:VAL:C	1:I:56:ASP:H	2.23	0.46
1:I:480:TYR:O	1:I:483:ALA:CB	2.63	0.46
2:J:30:GLY:HA2	2:J:33:VAL:HG21	1.97	0.46
2:J:459:LEU:HD11	2:J:471:GLY:C	2.40	0.46
3:K:202:ARG:O	3:K:204:VAL:O	2.32	0.46
5:M:84:THR:CG2	5:M:85:ASN:N	2.78	0.46
5:M:346:VAL:O	5:M:347:GLY:C	2.57	0.46
7:O:204:ILE:O	7:O:379:ARG:HD3	2.14	0.46
7:O:235:LYS:CB	7:O:353:GLU:HA	2.44	0.46
1:a:1016:GLY:HA3	1:a:1548:ASP:CB	2.45	0.46
2:b:1088:VAL:CG1	2:b:1393:GLN:HE22	2.22	0.46
3:c:1430:LYS:O	3:c:1433:GLN:CG	2.57	0.46
4:d:1209:MET:HE1	4:d:1375:VAL:HG11	1.97	0.46
4:d:1292:ILE:N	4:d:1293:LEU:CA	2.73	0.46
5:e:1038:LYS:HD2	5:e:1038:LYS:HA	1.70	0.46
6:f:1005:LEU:HB3	6:f:1006:LEU:C	2.39	0.46
6:f:1166:LEU:HG	6:f:1167:THR:OG1	2.15	0.46
6:f:1221:HIS:HB2	6:f:1224:MET:CG	2.43	0.46
6:f:1454:ILE:HB	6:f:1455:PRO:HD3	1.97	0.46
8:h:1099:GLY:O	8:h:1103:VAL:HG23	2.15	0.46
2:j:1162:SER:O	2:j:1163:SER:CB	2.63	0.46
3:k:1142:PRO:HB3	3:k:1410:PRO:O	2.15	0.46
6:n:1016:ASP:O	6:n:1020:LYS:N	2.46	0.46
6:n:1022:ASN:O	6:n:1072:THR:HG21	2.14	0.46
6:n:1213:LEU:HD23	6:n:1377:THR:CG2	2.40	0.46
7:o:1170:LEU:O	7:o:1170:LEU:CD2	2.58	0.46
7:o:1217:GLY:O	7:o:1375:THR:HG22	2.15	0.46
7:o:1452:GLN:HA	7:o:1455:GLU:HB2	1.96	0.46
1:A:16:GLY:HA3	1:A:548:ASP:CB	2.44	0.46
1:A:143:VAL:HG12	1:A:419:VAL:HG22	1.97	0.46
2:B:26:ALA:HB1	2:B:77:LEU:HD11	1.98	0.46
2:B:444:LEU:HD21	9:B:601:ADP:C1'	2.46	0.46
2:B:513:ASN:O	2:B:514:ILE:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:175:ALA:O	3:C:179:VAL:HG23	2.15	0.46
3:C:250:LEU:CG	3:C:301:VAL:CB	2.92	0.46
5:E:103:LEU:HA	5:E:106:GLN:HE21	1.81	0.46
5:E:301:TYR:HA	5:E:304:ASP:OD2	2.15	0.46
6:F:76:ILE:HG21	6:F:95:VAL:HG13	1.96	0.46
6:F:332:THR:HB	6:F:350:PHE:O	2.15	0.46
6:F:332:THR:O	6:F:333:GLY:C	2.58	0.46
6:F:422:LEU:HD13	6:F:517:ILE:HD11	1.98	0.46
6:F:454:ILE:N	6:F:455:PRO:HD2	2.29	0.46
7:G:304:THR:HA	7:G:307:PHE:CE2	2.46	0.46
3:K:202:ARG:HH21	3:K:323:SER:HB3	1.81	0.46
3:K:229:VAL:HG12	3:K:230:VAL:H	1.80	0.46
4:L:194:ILE:O	4:L:194:ILE:HG12	2.15	0.46
5:M:35:GLN:CD	5:M:36:GLY:CA	2.86	0.46
5:M:176:PHE:O	5:M:180:LEU:HD23	2.15	0.46
6:N:143:LEU:HD21	6:N:145:ASN:HB3	1.97	0.46
7:O:60:THR:O	7:O:60:THR:HG23	2.15	0.46
7:O:83:LEU:HD23	7:O:86:ILE:CD1	2.45	0.46
7:O:208:ALA:O	7:O:211:GLU:HB2	2.14	0.46
8:P:167:ILE:HD11	8:P:182:VAL:HG21	1.96	0.46
1:a:1419:VAL:CG1	1:a:1425:VAL:HG21	2.44	0.46
2:b:1162:SER:O	2:b:1163:SER:OG	2.30	0.46
2:b:1232:LEU:HD22	2:b:1233:ILE:H	1.80	0.46
2:b:1513:ASN:C	2:b:1514:ILE:HD13	2.36	0.46
4:d:1263:ILE:C	4:d:1265:LYS:H	2.23	0.46
4:d:1284:ASN:O	4:d:1310:ILE:CG2	2.63	0.46
6:f:1233:VAL:HG13	6:f:1351:SER:CB	2.43	0.46
6:f:1429:ALA:O	6:f:1433:LYS:HD3	2.14	0.46
7:g:1117:GLU:CD	7:g:1117:GLU:N	2.73	0.46
1:i:1256:MET:H	7:o:1255:ASP:CB	2.29	0.46
3:k:1170:LYS:HD3	3:k:1170:LYS:O	2.14	0.46
3:k:1174:LEU:HG	3:k:1219:VAL:HG22	1.96	0.46
4:l:1461:ASN:HD22	4:l:1462:SER:N	2.13	0.46
5:m:1035:GLN:CD	5:m:1036:GLY:CA	2.86	0.46
5:m:1150:PHE:CD1	5:m:1472:PHE:CE2	3.03	0.46
6:n:1409:LYS:HD3	6:n:1409:LYS:N	2.16	0.46
6:n:1458:LEU:HG	6:n:1459:VAL:HG23	1.97	0.46
7:o:1528:GLY:HA3	7:o:1529:SER:C	2.41	0.46
1:A:54:VAL:C	1:A:56:ASP:H	2.23	0.46
1:A:118:ASN:C	1:A:119:LYS:CD	2.88	0.46
2:B:459:LEU:HD11	2:B:471:GLY:C	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:469:THR:CG2	2:B:481:ASP:HB2	2.44	0.46
3:C:170:LYS:HD3	3:C:170:LYS:O	2.14	0.46
5:E:314:LYS:HZ1	5:E:338:ASN:HA	1.81	0.46
6:F:362:GLU:CG	6:F:364:PHE:CE2	2.93	0.46
7:G:507:LEU:C	7:G:507:LEU:HD13	2.40	0.46
7:G:528:GLY:HA3	7:G:529:SER:C	2.41	0.46
8:H:32:ILE:HD11	8:H:111:LEU:C	2.41	0.46
8:H:184:GLU:O	8:H:188:HIS:HD2	1.97	0.46
2:J:124:TYR:N	2:J:124:TYR:HD1	2.12	0.46
4:L:147:ARG:O	4:L:151:VAL:HG23	2.16	0.46
4:L:178:VAL:CB	4:L:401:ILE:HD11	2.45	0.46
5:M:114:GLU:HB3	6:N:201:HIS:CE1	2.50	0.46
5:M:301:TYR:HA	5:M:304:ASP:OD2	2.15	0.46
6:N:16:ASP:HA	6:N:19:LEU:CG	2.45	0.46
6:N:166:LEU:HG	6:N:167:THR:OG1	2.15	0.46
6:N:427:ARG:HG2	6:N:448:ALA:CB	2.46	0.46
6:N:454:ILE:HB	6:N:455:PRO:HD3	1.97	0.46
7:O:292:ILE:N	7:O:312:ILE:HG13	2.30	0.46
8:P:32:ILE:HD11	8:P:111:LEU:C	2.41	0.46
8:P:442:PRO:HA	8:P:446:GLN:HE21	1.80	0.46
3:c:1457:ILE:HG22	3:c:1462:GLY:O	2.14	0.46
4:d:1496:HIS:O	4:d:1498:LEU:HD12	2.15	0.46
5:e:1277:GLU:CB	5:e:1278:PRO:HD2	2.44	0.46
6:f:1003:LEU:N	6:f:1003:LEU:HD22	2.30	0.46
6:f:1016:ASP:HA	6:f:1019:LEU:CG	2.45	0.46
7:g:1204:ILE:O	7:g:1379:ARG:HD3	2.14	0.46
7:g:1491:ASN:OD1	7:g:1496:VAL:CG2	2.64	0.46
8:h:1032:ILE:O	8:h:1032:ILE:HD13	2.16	0.46
8:h:1032:ILE:HD11	8:h:1111:LEU:C	2.41	0.46
1:i:1016:GLY:CA	1:i:1548:ASP:HB3	2.44	0.46
1:i:1118:ASN:C	1:i:1119:LYS:CD	2.88	0.46
1:i:1419:VAL:CG1	1:i:1425:VAL:HG21	2.44	0.46
2:j:1030:GLY:CA	2:j:1033:VAL:CG2	2.86	0.46
2:j:1463:ILE:HD11	2:j:1468:SER:OG	2.15	0.46
3:k:1229:VAL:HG12	3:k:1230:VAL:H	1.80	0.46
3:k:1237:HIS:C	3:k:1238:ILE:HG13	2.40	0.46
4:l:1178:VAL:CB	4:l:1401:ILE:HD11	2.46	0.46
4:l:1234:ILE:HG22	4:l:1236:LEU:HD22	1.97	0.46
5:m:1038:LYS:HD2	5:m:1038:LYS:HA	1.70	0.46
5:m:1423:LEU:C	5:m:1425:ASP:N	2.73	0.46
6:n:1454:ILE:HB	6:n:1455:PRO:HD3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1236:PHE:O	7:o:1239:PRO:CG	2.64	0.46
8:p:1291:ILE:HD12	8:p:1347:PRO:HG2	1.96	0.46
1:A:476:LYS:C	1:A:509:ILE:HD11	2.40	0.46
2:B:242:LYS:HA	3:C:269:TRP:HE1	1.81	0.46
2:B:360:LYS:HA	2:B:361:ALA:HA	1.69	0.46
2:B:477:GLY:O	2:B:478:THR:CB	2.62	0.46
4:D:92:GLY:O	4:D:96:VAL:HG23	2.15	0.46
4:D:134:ILE:HD12	4:D:421:ILE:HD13	1.95	0.46
9:D:601:ADP:C8	9:D:601:ADP:C3'	2.98	0.46
6:F:16:ASP:HA	6:F:19:LEU:CG	2.45	0.46
6:F:370:ASN:HD22	6:F:370:ASN:N	2.14	0.46
7:G:51:ILE:HB	7:G:69:ILE:HD11	1.96	0.46
7:G:144:ALA:HA	7:G:409:ILE:O	2.14	0.46
1:I:92:ARG:HG2	5:M:388:THR:CB	2.46	0.46
2:J:162:SER:O	2:J:163:SER:CB	2.64	0.46
2:J:165:ILE:HD13	6:N:526:ASN:HB2	1.98	0.46
2:J:328:THR:O	2:J:329:PHE:CB	2.62	0.46
4:L:254:VAL:HG22	8:P:264:THR:O	2.16	0.46
5:M:114:GLU:HG2	6:N:201:HIS:ND1	2.31	0.46
7:O:80:ALA:O	7:O:84:VAL:HG23	2.16	0.46
7:O:217:GLY:O	7:O:375:THR:HG22	2.15	0.46
8:P:164:LYS:HB3	8:P:165:PRO:HD3	1.96	0.46
8:P:487:PRO:HA	8:P:488:GLY:HA3	1.69	0.46
2:b:1026:ALA:HB1	2:b:1077:LEU:HD11	1.98	0.46
2:b:1224:LYS:O	2:b:1343:ILE:HA	2.16	0.46
2:b:1459:LEU:HD11	2:b:1471:GLY:C	2.40	0.46
3:c:1025:ILE:HD13	3:c:1026:THR:N	2.30	0.46
3:c:1117:HIS:CG	3:c:1118:PRO:HD2	2.50	0.46
3:c:1512:THR:HG23	8:h:1389:ALA:CB	2.44	0.46
4:d:1092:GLY:O	4:d:1096:VAL:HG23	2.15	0.46
4:d:1234:ILE:HG22	4:d:1236:LEU:HD22	1.97	0.46
5:e:1150:PHE:CD1	5:e:1472:PHE:CE2	3.03	0.46
5:e:1477:ASP:C	5:e:1480:PRO:HD2	2.39	0.46
6:f:1108:PHE:CE1	6:f:1118:ILE:HG13	2.50	0.46
6:f:1332:THR:HB	6:f:1350:PHE:O	2.15	0.46
6:f:1332:THR:HB	6:f:1351:SER:HA	1.96	0.46
6:f:1422:LEU:HD13	6:f:1517:ILE:HD11	1.98	0.46
7:g:1316:GLY:O	7:g:1317:ARG:CB	2.52	0.46
7:g:1329:ALA:HA	7:g:1371:ALA:HB1	1.98	0.46
7:g:1507:LEU:C	7:g:1507:LEU:HD13	2.40	0.46
8:h:1487:PRO:HA	8:h:1488:GLY:HA3	1.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1467:ILE:HA	2:j:1468:SER:HA	1.59	0.46
3:k:1268:ASP:O	3:k:1272:ILE:HG12	2.14	0.46
4:l:1092:GLY:O	4:l:1096:VAL:HG23	2.15	0.46
4:l:1134:ILE:HD12	4:l:1421:ILE:HD13	1.95	0.46
4:l:1194:ILE:O	4:l:1194:ILE:HG12	2.15	0.46
4:l:1496:HIS:O	4:l:1498:LEU:HD12	2.15	0.46
5:m:1084:THR:HG22	5:m:1085:ASN:N	2.31	0.46
6:n:1332:THR:O	6:n:1333:GLY:C	2.58	0.46
7:o:1217:GLY:HA3	7:o:1365:PHE:O	2.15	0.46
7:o:1409:ILE:CG2	7:o:1410:VAL:H	2.28	0.46
8:p:1167:ILE:HD11	8:p:1182:VAL:HG21	1.96	0.46
4:D:209:MET:HE1	4:D:375:VAL:HG11	1.97	0.46
4:D:234:ILE:HG22	4:D:236:LEU:HD22	1.97	0.46
4:D:461:ASN:HD22	4:D:462:SER:N	2.13	0.46
4:D:521:ILE:HG23	7:G:50:ASP:C	2.40	0.46
7:G:80:ALA:O	7:G:84:VAL:HG23	2.16	0.46
7:G:83:LEU:HD23	7:G:86:ILE:CD1	2.45	0.46
7:G:454:CYS:HB3	7:G:461:ALA:HA	1.98	0.46
8:H:32:ILE:HD13	8:H:32:ILE:O	2.16	0.46
2:J:164:LYS:O	2:J:167:SER:N	2.40	0.46
2:J:331:GLU:HA	2:J:332:PRO:HD3	1.79	0.46
3:K:47:MET:HG2	3:K:48:LEU:N	2.30	0.46
3:K:51:PRO:O	3:K:52:MET:CG	2.63	0.46
3:K:402:VAL:HG13	3:K:502:PRO:CG	2.45	0.46
4:L:263:ILE:C	4:L:265:LYS:H	2.23	0.46
4:L:284:ASN:O	4:L:310:ILE:CG2	2.63	0.46
4:L:305:LEU:C	4:L:305:LEU:HD23	2.41	0.46
5:M:74:LEU:HD12	5:M:93:GLN:HB3	1.96	0.46
6:N:539:SER:O	6:N:540:THR:C	2.58	0.46
7:O:236:PHE:O	7:O:239:PRO:CG	2.64	0.46
7:O:454:CYS:HB3	7:O:461:ALA:HA	1.98	0.46
7:O:507:LEU:C	7:O:507:LEU:HD13	2.40	0.46
8:P:6:PRO:CB	8:P:7:GLN:CA	2.93	0.46
8:P:184:GLU:O	8:P:188:HIS:HD2	1.97	0.46
1:a:1480:TYR:O	1:a:1483:ALA:CB	2.63	0.46
3:c:1108:ALA:O	3:c:1112:ILE:HG23	2.15	0.46
3:c:1129:LEU:HD23	3:c:1510:VAL:HG12	1.96	0.46
3:c:1202:ARG:HH21	3:c:1323:SER:HB3	1.81	0.46
3:c:1348:VAL:HG12	3:c:1349:GLY:N	2.30	0.46
4:d:1178:VAL:CB	4:d:1401:ILE:HD11	2.45	0.46
5:e:1084:THR:CG2	5:e:1085:ASN:N	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:1103:LEU:HA	5:e:1106:GLN:HE21	1.81	0.46
5:e:1133:ALA:HB2	5:e:1150:PHE:HE2	1.79	0.46
6:f:1330:LEU:O	6:f:1372:ASP:O	2.34	0.46
7:g:1033:CYS:SG	7:g:1106:GLY:HA2	2.56	0.46
7:g:1354:GLU:HA	7:g:1363:ASN:HA	1.97	0.46
8:h:1167:ILE:HD11	8:h:1182:VAL:HG21	1.96	0.46
2:j:1142:ASN:CB	2:j:1143:SER:HA	2.18	0.46
2:j:1237:THR:N	2:j:1287:ARG:HD2	2.28	0.46
2:j:1289:LEU:HD21	2:j:1304:ASN:OD1	2.15	0.46
3:k:1246:LEU:O	3:k:1247:ASP:HB3	2.15	0.46
4:l:1241:ILE:HD12	4:l:1241:ILE:N	2.30	0.46
4:l:1284:ASN:O	4:l:1310:ILE:CG2	2.63	0.46
5:m:1297:LYS:HD2	5:m:1297:LYS:HA	1.66	0.46
6:n:1422:LEU:HD13	6:n:1517:ILE:HD11	1.98	0.46
7:o:1080:ALA:O	7:o:1084:VAL:HG23	2.16	0.46
1:A:29:ASN:HD22	1:A:538:ILE:HG23	1.81	0.46
2:B:224:LYS:O	2:B:343:ILE:HA	2.16	0.46
2:B:286:ASN:HD22	2:B:287:ARG:N	2.14	0.46
3:C:229:VAL:HG12	3:C:230:VAL:H	1.80	0.46
4:D:291:SER:HA	4:D:315:ASP:CA	2.44	0.46
6:F:166:LEU:HG	6:F:167:THR:OG1	2.15	0.46
6:F:343:LEU:HA	6:F:344:SER:HA	1.48	0.46
6:F:420:ILE:HB	6:F:482:ASP:OD1	2.16	0.46
2:J:42:MET:HE3	2:J:42:MET:HA	1.97	0.46
2:J:324:GLU:H	3:K:311:LYS:HZ1	1.62	0.46
2:J:409:MET:HA	2:J:409:MET:CE	2.38	0.46
2:J:411:MET:CE	2:J:498:VAL:HG21	2.45	0.46
4:L:77:MET:CE	7:O:384:GLN:HB2	2.45	0.46
4:L:496:HIS:O	4:L:498:LEU:HD12	2.15	0.46
5:M:423:LEU:C	5:M:425:ASP:N	2.73	0.46
6:N:5:LEU:CA	6:N:6:LEU:HB2	2.35	0.46
6:N:28:GLY:C	6:N:30:GLN:H	2.22	0.46
7:O:17:THR:HG22	7:O:526:ASN:HD22	1.80	0.46
7:O:144:ALA:HA	7:O:409:ILE:O	2.15	0.46
7:O:200:GLY:O	7:O:375:THR:HA	2.16	0.46
2:b:1045:LEU:HB2	6:f:1533:LEU:HB2	1.97	0.46
2:b:1060:GLY:O	2:b:1063:ILE:HG22	2.15	0.46
2:b:1124:TYR:N	2:b:1124:TYR:HD1	2.12	0.46
2:b:1197:LYS:C	2:b:1198:ILE:HD12	2.41	0.46
3:c:1142:PRO:HB3	3:c:1410:PRO:O	2.15	0.46
4:d:1305:LEU:HD23	4:d:1305:LEU:C	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1485:ARG:H	4:d:1485:ARG:CD	2.27	0.46
5:e:1556:ILE:HG23	6:f:1047:VAL:HB	1.97	0.46
6:f:1343:LEU:HA	6:f:1344:SER:HA	1.48	0.46
6:f:1420:ILE:HB	6:f:1482:ASP:OD1	2.16	0.46
7:g:1296:LYS:HA	7:g:1318:VAL:HG23	1.97	0.46
3:k:1202:ARG:HH21	3:k:1323:SER:HB3	1.81	0.46
3:k:1230:VAL:HG21	3:k:1303:ASP:H	1.80	0.46
3:k:1436:GLY:C	3:k:1438:GLN:H	2.24	0.46
5:m:1084:THR:CG2	5:m:1085:ASN:N	2.78	0.46
5:m:1103:LEU:HA	5:m:1106:GLN:HE21	1.81	0.46
6:n:1108:PHE:CE1	6:n:1118:ILE:HG13	2.50	0.46
6:n:1221:HIS:CD2	6:n:1224:MET:SD	3.09	0.46
6:n:1224:MET:HE2	6:n:1315:LEU:HA	1.96	0.46
7:o:1491:ASN:OD1	7:o:1496:VAL:CG2	2.64	0.46
8:p:1386:LEU:H	8:p:1386:LEU:HD12	1.81	0.46
2:B:60:GLY:O	2:B:63:ILE:HG22	2.15	0.46
2:B:63:ILE:CG2	2:B:64:LEU:HG	2.44	0.46
3:C:129:LEU:HD23	3:C:510:VAL:HG12	1.96	0.46
7:G:60:THR:O	7:G:60:THR:HG23	2.15	0.46
7:G:207:GLY:HA3	7:G:379:ARG:HH11	1.81	0.46
7:G:491:ASN:OD1	7:G:496:VAL:CG2	2.64	0.46
8:H:94:ILE:H	8:H:94:ILE:HG13	1.50	0.46
2:J:197:LYS:C	2:J:198:ILE:HD12	2.41	0.46
2:J:242:LYS:HD3	3:K:269:TRP:CZ2	2.50	0.46
4:L:392:ARG:HD3	4:L:393:SER:N	2.31	0.46
6:N:182:TYR:C	6:N:184:ALA:N	2.73	0.46
6:N:233:VAL:HG13	6:N:351:SER:CB	2.43	0.46
8:P:32:ILE:HD13	8:P:32:ILE:O	2.16	0.46
1:a:1012:THR:CB	5:e:1096:LEU:HA	2.46	0.46
5:e:1269:LEU:HD22	5:e:1269:LEU:N	2.31	0.46
6:f:1332:THR:O	6:f:1333:GLY:C	2.58	0.46
6:f:1395:VAL:O	6:f:1399:LEU:HB3	2.14	0.46
7:g:1292:ILE:N	7:g:1312:ILE:HG13	2.30	0.46
8:h:1163:ILE:HG23	8:h:1179:SER:CB	2.42	0.46
2:j:1026:ALA:HB1	2:j:1077:LEU:HD11	1.98	0.46
4:l:1147:ARG:O	4:l:1151:VAL:HG23	2.16	0.46
5:m:1314:LYS:HZ1	5:m:1338:ASN:HA	1.80	0.46
5:m:1352:GLU:H	5:m:1352:GLU:HG3	1.59	0.46
6:n:1141:THR:CG2	6:n:1142:ASN:N	2.78	0.46
6:n:1427:ARG:HG2	6:n:1448:ALA:CB	2.46	0.46
7:o:1033:CYS:SG	7:o:1106:GLY:HA2	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1454:CYS:HB3	7:o:1461:ALA:HA	1.98	0.46
4:D:182:SER:HB2	4:D:187:LYS:CE	2.46	0.46
4:D:305:LEU:HD23	4:D:305:LEU:C	2.41	0.46
5:E:269:LEU:HD22	5:E:269:LEU:N	2.31	0.46
6:F:233:VAL:HG13	6:F:351:SER:CB	2.43	0.46
6:F:427:ARG:HG2	6:F:448:ALA:CB	2.46	0.46
6:F:458:LEU:HG	6:F:459:VAL:HG23	1.97	0.46
7:G:33:CYS:SG	7:G:106:GLY:HA2	2.56	0.46
7:G:200:GLY:O	7:G:375:THR:HA	2.15	0.46
7:G:296:LYS:HA	7:G:318:VAL:HG23	1.97	0.46
8:H:251:THR:O	8:H:252:CYS:C	2.59	0.46
8:H:464:ALA:HB1	8:H:474:VAL:HG21	1.98	0.46
3:K:298:GLU:HA	3:K:320:VAL:H	1.81	0.46
4:L:234:ILE:HG22	4:L:236:LEU:HD22	1.97	0.46
4:L:367:ARG:C	4:L:369:ASN:N	2.67	0.46
6:N:122:PHE:HD1	6:N:447:PHE:HD1	1.63	0.46
6:N:332:THR:HB	6:N:350:PHE:O	2.15	0.46
6:N:458:LEU:HG	6:N:459:VAL:HG23	1.97	0.46
7:O:33:CYS:SG	7:O:106:GLY:HA2	2.56	0.46
7:O:234:LYS:HA	7:O:234:LYS:HD3	1.34	0.46
7:O:491:ASN:OD1	7:O:496:VAL:CG2	2.64	0.46
1:a:1145:SER:O	1:a:1148:VAL:HG23	2.15	0.46
2:b:1042:MET:HE3	2:b:1042:MET:HA	1.97	0.46
2:b:1162:SER:O	2:b:1163:SER:CB	2.63	0.46
4:d:1044:MET:HE3	8:h:1531:ALA:CB	2.45	0.46
4:d:1299:ASP:OD1	4:d:1301:ALA:HB3	2.16	0.46
5:e:1423:LEU:C	5:e:1425:ASP:N	2.73	0.46
6:f:1072:THR:O	6:f:1075:LEU:HB3	2.16	0.46
6:f:1109:ILE:O	5:m:1039:LYS:HE2	2.16	0.46
7:g:1317:ARG:O	7:g:1317:ARG:HD2	2.16	0.46
1:i:1143:VAL:HG12	1:i:1419:VAL:HG22	1.97	0.46
1:i:1419:VAL:HG13	1:i:1425:VAL:HG21	1.98	0.46
2:j:1042:MET:HE3	2:j:1042:MET:HA	1.97	0.46
4:l:1046:LYS:HG3	8:p:1532:THR:HG23	1.98	0.46
5:m:1269:LEU:HD22	5:m:1269:LEU:N	2.31	0.46
6:n:1146:ASP:O	6:n:1147:ARG:C	2.59	0.46
7:o:1200:GLY:O	7:o:1375:THR:HA	2.15	0.46
1:A:486:MET:CB	1:A:487:ALA:HB2	2.46	0.46
2:B:162:SER:O	2:B:163:SER:CB	2.63	0.46
3:C:246:LEU:O	3:C:247:ASP:HB3	2.15	0.46
4:D:344:LEU:O	4:D:345:ASP:OD1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:392:ARG:HD3	4:D:393:SER:N	2.31	0.46
4:D:417:PRO:O	4:D:421:ILE:HG12	2.16	0.46
5:E:239:LEU:HD23	5:E:240:ILE:N	2.31	0.46
5:E:412:ASN:C	5:E:414:MET:H	2.24	0.46
5:E:423:LEU:C	5:E:425:ASP:N	2.73	0.46
6:F:330:LEU:O	6:F:372:ASP:O	2.34	0.46
6:F:497:ASP:CG	6:F:498:SER:N	2.74	0.46
1:I:143:VAL:HG12	1:I:419:VAL:HG22	1.97	0.46
2:J:26:ALA:HB1	2:J:77:LEU:HD11	1.97	0.46
2:J:109:LEU:C	2:J:111:ASP:H	2.24	0.46
2:J:242:LYS:HA	3:K:269:TRP:HE1	1.80	0.46
3:K:142:PRO:HB3	3:K:410:PRO:O	2.15	0.46
4:L:144:LEU:HD23	4:L:144:LEU:N	2.31	0.46
5:M:184:ALA:O	5:M:188:LEU:CB	2.64	0.46
1:a:1069:ILE:O	1:a:1073:LEU:HD13	2.16	0.46
1:a:1118:ASN:C	1:a:1119:LYS:CD	2.88	0.46
1:a:1178:ASN:HD21	1:a:1182:ASP:CG	2.23	0.46
2:b:1109:LEU:C	2:b:1111:ASP:H	2.24	0.46
2:b:1360:LYS:HA	2:b:1361:ALA:HA	1.69	0.46
2:b:1409:MET:HA	2:b:1409:MET:CE	2.38	0.46
2:b:1411:MET:CE	2:b:1498:VAL:HG21	2.46	0.46
3:c:1051:PRO:O	3:c:1052:MET:CG	2.63	0.46
4:d:1147:ARG:O	4:d:1151:VAL:HG23	2.16	0.46
5:e:1107:LEU:CD2	5:e:1544:LEU:HG	2.35	0.46
5:e:1184:ALA:O	5:e:1188:LEU:CB	2.64	0.46
6:f:1056:THR:HB	6:f:1390:GLN:HE22	1.79	0.46
6:f:1182:TYR:C	6:f:1184:ALA:N	2.73	0.46
6:f:1337:GLN:HG2	6:f:1347:ILE:CD1	2.46	0.46
7:g:1200:GLY:O	7:g:1375:THR:HA	2.15	0.46
7:g:1236:PHE:O	7:g:1239:PRO:CG	2.64	0.46
7:g:1528:GLY:HA3	7:g:1529:SER:C	2.41	0.46
1:i:1120:ILE:O	1:i:1120:ILE:HD13	2.16	0.46
1:i:1178:ASN:HD21	1:i:1182:ASP:CG	2.23	0.46
2:j:1030:GLY:HA2	2:j:1033:VAL:HG21	1.97	0.46
4:l:1157:SER:C	4:l:1159:SER:H	2.24	0.46
4:l:1209:MET:HE1	4:l:1375:VAL:HG11	1.97	0.46
5:m:1239:LEU:HD23	5:m:1240:ILE:N	2.31	0.46
7:o:1083:LEU:HD23	7:o:1086:ILE:CD1	2.45	0.46
7:o:1145:VAL:O	7:o:1408:LEU:CA	2.58	0.46
1:A:210:GLY:O	1:A:211:LYS:CB	2.64	0.46
1:A:218:LEU:HD23	1:A:385:ILE:HG12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:95:THR:HG23	9:C:1101:ADP:O1A	2.15	0.46
9:C:1101:ADP:C8	9:C:1101:ADP:O3'	2.69	0.46
4:D:144:LEU:N	4:D:144:LEU:HD23	2.31	0.46
4:D:161:LYS:HA	4:D:161:LYS:HD2	1.66	0.46
4:D:284:ASN:O	4:D:310:ILE:CG2	2.63	0.46
7:G:126:MET:HA	7:G:126:MET:CE	2.40	0.46
7:G:236:PHE:O	7:G:239:PRO:CG	2.64	0.46
7:G:291:ASN:HA	7:G:312:ILE:HB	1.97	0.46
8:H:175:GLU:H	8:H:175:GLU:HG3	1.45	0.46
8:H:291:ILE:HD12	8:H:347:PRO:HG3	1.97	0.46
1:I:224:LEU:CD1	1:I:226:CYS:CB	2.90	0.46
2:J:286:ASN:HD22	2:J:287:ARG:N	2.14	0.46
4:L:9:ALA:CB	7:O:76:VAL:H	2.27	0.46
4:L:120:ILE:CG1	4:L:439:ILE:HG21	2.44	0.46
4:L:241:ILE:HD12	4:L:241:ILE:N	2.30	0.46
6:N:141:THR:CG2	6:N:142:ASN:N	2.78	0.46
2:b:1286:ASN:HD22	2:b:1287:ARG:N	2.14	0.46
4:d:1144:LEU:N	4:d:1144:LEU:HD23	2.31	0.46
4:d:1163:VAL:O	4:d:1167:SER:OG	2.31	0.46
6:f:1458:LEU:HG	6:f:1459:VAL:HG23	1.97	0.46
7:g:1217:GLY:HA3	7:g:1365:PHE:O	2.15	0.46
7:g:1470:LEU:O	7:g:1473:SER:OG	2.29	0.46
8:h:1054:ILE:HG13	8:h:1064:ILE:CG1	2.15	0.46
8:h:1464:ALA:HB1	8:h:1474:VAL:HG21	1.98	0.46
1:i:1433:LEU:O	1:i:1437:ALA:CA	2.64	0.46
2:j:1141:ASP:CG	2:j:1142:ASN:N	2.75	0.46
2:j:1217:LYS:HB3	2:j:1217:LYS:HE2	1.75	0.46
2:j:1295:GLU:HB2	6:n:1337:GLN:CD	2.41	0.46
2:j:1466:GLY:C	2:j:1467:ILE:HG13	2.41	0.46
4:l:1263:ILE:C	4:l:1265:LYS:H	2.23	0.46
4:l:1299:ASP:OD1	4:l:1301:ALA:HB3	2.16	0.46
4:l:1521:ILE:HG23	7:o:1050:ASP:C	2.38	0.46
6:n:1072:THR:O	6:n:1075:LEU:HB3	2.16	0.46
6:n:1141:THR:CB	6:n:1409:LYS:HG3	2.45	0.46
7:o:1507:LEU:C	7:o:1507:LEU:HD13	2.41	0.46
8:p:1464:ALA:HB1	8:p:1474:VAL:HG21	1.98	0.46
2:B:197:LYS:C	2:B:198:ILE:HD12	2.41	0.45
4:D:185:ASN:H	4:D:187:LYS:N	2.14	0.45
4:D:329:GLY:C	4:D:345:ASP:OD1	2.59	0.45
4:D:521:ILE:CG2	7:G:51:ILE:HA	2.40	0.45
6:F:72:THR:O	6:F:75:LEU:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:243:GLU:OE2	6:F:243:GLU:CA	2.52	0.45
6:F:296:ILE:HD12	6:F:328:LEU:HD22	1.99	0.45
6:F:540:THR:CB	6:F:541:LEU:HD22	2.44	0.45
7:G:452:GLN:HA	7:G:455:GLU:HB2	1.96	0.45
8:H:386:LEU:H	8:H:386:LEU:HD12	1.81	0.45
1:I:12:THR:HA	1:I:13:LEU:HA	1.69	0.45
1:I:66:GLY:CA	1:I:99:THR:HG22	2.47	0.45
2:J:203:LEU:O	2:J:204:SER:OG	2.30	0.45
2:J:219:GLY:HA3	2:J:304:ASN:ND2	2.31	0.45
3:K:47:MET:HE3	3:K:49:LEU:HD21	1.98	0.45
4:L:24:ASN:ND2	4:L:524:ILE:HD11	2.30	0.45
4:L:157:SER:C	4:L:159:SER:H	2.24	0.45
5:M:88:ALA:HB1	5:M:109:LYS:HZ2	1.80	0.45
5:M:103:LEU:HA	5:M:106:GLN:HE21	1.80	0.45
5:M:239:LEU:HD23	5:M:240:ILE:N	2.31	0.45
6:N:153:VAL:CB	6:N:507:TRP:CB	2.94	0.45
8:P:169:SER:HB2	9:P:601:ADP:O2A	2.15	0.45
1:a:1054:VAL:HG12	1:a:1056:ASP:N	2.30	0.45
1:a:1143:VAL:HG12	1:a:1419:VAL:HG22	1.97	0.45
1:a:1221:GLY:HA2	1:a:1382:SER:CB	2.42	0.45
1:a:1486:MET:CB	1:a:1487:ALA:HB2	2.46	0.45
4:d:1050:THR:HG22	4:d:1054:GLU:N	2.31	0.45
4:d:1418:GLU:HG2	4:d:1451:PRO:HD3	1.98	0.45
6:f:1141:THR:CG2	6:f:1142:ASN:N	2.79	0.45
6:f:1427:ARG:HG2	6:f:1448:ALA:CB	2.46	0.45
7:g:1080:ALA:O	7:g:1084:VAL:HG23	2.16	0.45
7:g:1409:ILE:CG2	7:g:1410:VAL:H	2.28	0.45
1:i:1458:ILE:HD12	1:i:1458:ILE:H	1.82	0.45
2:j:1045:LEU:HD12	6:n:1533:LEU:HB3	1.99	0.45
2:j:1232:LEU:HD22	2:j:1233:ILE:H	1.80	0.45
4:l:1120:ILE:CG1	4:l:1439:ILE:HG21	2.44	0.45
4:l:1392:ARG:HD3	4:l:1393:SER:N	2.31	0.45
5:m:1074:LEU:HD12	5:m:1093:GLN:HB3	1.96	0.45
5:m:1114:GLU:HG2	6:n:1201:HIS:ND1	2.31	0.45
6:n:1005:LEU:HB3	6:n:1006:LEU:C	2.39	0.45
6:n:1330:LEU:O	6:n:1372:ASP:O	2.34	0.45
6:n:1337:GLN:HG2	6:n:1347:ILE:CD1	2.46	0.45
8:p:1414:PRO:HA	8:p:1415:SER:HA	1.60	0.45
8:p:1426:THR:HG23	8:p:1427:GLU:N	2.31	0.45
1:A:420:PRO:O	1:A:424:CYS:HB3	2.16	0.45
2:B:116:HIS:CE1	2:B:118:GLN:CB	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:116:HIS:HA	2:B:117:PRO:HD3	1.74	0.45
2:B:210:GLU:CB	2:B:357:SER:O	2.65	0.45
3:C:335:THR:HB	8:H:237:LYS:CE	2.34	0.45
4:D:50:THR:HG22	4:D:54:GLU:N	2.31	0.45
4:D:98:ILE:HG12	4:D:98:ILE:H	1.57	0.45
4:D:325:SER:O	4:D:329:GLY:N	2.47	0.45
4:D:418:GLU:HG2	4:D:451:PRO:HD3	1.98	0.45
6:F:43:LEU:HD21	6:F:161:LYS:CA	2.42	0.45
6:F:160:THR:N	6:F:164:ALA:HB3	2.31	0.45
6:F:182:TYR:C	6:F:184:ALA:N	2.73	0.45
1:I:336:THR:HB	1:I:354:TYR:HD1	1.80	0.45
1:I:420:PRO:O	1:I:424:CYS:HB3	2.16	0.45
1:I:433:LEU:O	1:I:437:ALA:CA	2.65	0.45
2:J:27:ILE:O	2:J:27:ILE:HG12	2.15	0.45
4:L:50:THR:HG22	4:L:54:GLU:N	2.30	0.45
4:L:182:SER:HB2	4:L:187:LYS:CE	2.46	0.45
4:L:499:GLN:HA	4:L:500:PRO:HD3	1.86	0.45
5:M:396:GLU:HA	5:M:397:GLN:HA	1.53	0.45
6:N:56:THR:HB	6:N:390:GLN:CD	2.42	0.45
6:N:296:ILE:HG12	6:N:317:LEU:HB2	1.98	0.45
6:N:337:GLN:HG2	6:N:347:ILE:CD1	2.46	0.45
7:O:296:LYS:HA	7:O:318:VAL:HG23	1.97	0.45
7:O:329:ALA:HA	7:O:371:ALA:HB1	1.98	0.45
8:P:426:THR:HG23	8:P:427:GLU:N	2.31	0.45
1:a:1433:LEU:O	1:a:1437:ALA:CA	2.64	0.45
2:b:1386:ASP:O	2:b:1390:VAL:HG23	2.17	0.45
3:c:1298:GLU:HA	3:c:1320:VAL:H	1.81	0.45
4:d:1226:PRO:CG	4:d:1311:MET:HG2	2.47	0.45
5:e:1084:THR:HG22	5:e:1085:ASN:N	2.31	0.45
5:e:1396:GLU:HA	5:e:1397:GLN:HA	1.53	0.45
6:f:1109:ILE:CG1	5:m:1039:LYS:HZ3	2.30	0.45
6:f:1122:PHE:HD1	6:f:1447:PHE:HD1	1.63	0.45
6:f:1209:PHE:CE2	6:f:1376:CYS:SG	2.97	0.45
8:h:1437:TYR:C	8:h:1437:TYR:CD2	2.95	0.45
1:i:1012:THR:OG1	5:m:1096:LEU:HA	2.16	0.45
1:i:1029:ASN:HD22	1:i:1538:ILE:HG23	1.80	0.45
2:j:1068:PRO:HG2	6:n:1536:ALA:HB2	1.98	0.45
2:j:1197:LYS:C	2:j:1198:ILE:HD12	2.41	0.45
2:j:1293:TYR:O	2:j:1297:LEU:HD23	2.17	0.45
4:l:1050:THR:HG22	4:l:1054:GLU:N	2.31	0.45
4:l:1144:LEU:N	4:l:1144:LEU:HD23	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l:1305:LEU:HD23	4:l:1305:LEU:C	2.41	0.45
4:l:1325:SER:O	4:l:1329:GLY:N	2.46	0.45
6:n:1332:THR:HB	6:n:1350:PHE:O	2.15	0.45
7:o:1317:ARG:O	7:o:1317:ARG:HD2	2.16	0.45
8:p:1032:ILE:O	8:p:1032:ILE:HD13	2.16	0.45
8:p:1032:ILE:HD11	8:p:1111:LEU:C	2.41	0.45
8:p:1163:ILE:HG23	8:p:1179:SER:CB	2.42	0.45
1:A:69:ILE:O	1:A:73:LEU:HD13	2.15	0.45
2:B:411:MET:CE	2:B:498:VAL:HG21	2.46	0.45
2:B:492:LYS:H	2:B:492:LYS:HZ1	1.63	0.45
3:C:142:PRO:HB3	3:C:410:PRO:O	2.15	0.45
3:C:174:LEU:HG	3:C:219:VAL:CG2	2.47	0.45
4:D:194:ILE:O	4:D:194:ILE:HG12	2.15	0.45
6:F:159:LEU:CA	6:F:164:ALA:HB2	2.41	0.45
6:F:167:THR:CB	6:F:168:GLU:HB3	2.47	0.45
6:F:352:GLY:C	6:F:367:VAL:HG12	2.40	0.45
8:H:426:THR:HG23	8:H:427:GLU:N	2.31	0.45
8:H:437:TYR:C	8:H:437:TYR:CD2	2.95	0.45
1:I:94:ILE:HD12	1:I:94:ILE:N	2.29	0.45
1:I:128:GLY:O	1:I:448:ILE:HD13	2.15	0.45
1:I:210:GLY:O	1:I:211:LYS:CB	2.64	0.45
2:J:293:TYR:O	2:J:297:LEU:HD23	2.17	0.45
3:K:471:LEU:HD12	3:K:491:ILE:HG21	1.98	0.45
6:N:79:ALA:HB1	6:N:523:ILE:HD11	1.98	0.45
6:N:221:HIS:HB2	6:N:224:MET:CG	2.43	0.45
6:N:332:THR:O	6:N:333:GLY:C	2.58	0.45
6:N:415:ALA:HA	9:N:601:ADP:H1'	1.97	0.45
6:N:420:ILE:HB	6:N:482:ASP:OD1	2.15	0.45
7:O:191:ARG:NE	7:O:191:ARG:C	2.75	0.45
8:P:252:CYS:HB2	8:P:343:ARG:N	2.32	0.45
1:a:1016:GLY:CA	1:a:1548:ASP:HB3	2.44	0.45
1:a:1112:ALA:HB1	1:a:1539:LEU:HD21	1.98	0.45
2:b:1116:HIS:CE1	2:b:1118:GLN:CB	2.99	0.45
2:b:1141:ASP:CG	2:b:1142:ASN:N	2.75	0.45
2:b:1222:GLN:HB3	2:b:1223:PRO:HD2	1.98	0.45
2:b:1466:GLY:C	2:b:1467:ILE:HG13	2.41	0.45
3:c:1064:ILE:HG22	3:c:1065:LEU:N	2.32	0.45
3:c:1084:THR:HG22	8:h:1213:MET:SD	2.56	0.45
4:d:1182:SER:HB2	4:d:1187:LYS:CE	2.46	0.45
4:d:1417:PRO:O	4:d:1421:ILE:HG12	2.16	0.45
5:e:1118:GLY:HA2	9:e:1601:ADP:O1A	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:1340:LEU:HD23	5:e:1340:LEU:H	1.81	0.45
6:f:1342:ASP:O	6:f:1343:LEU:C	2.59	0.45
8:h:1291:ILE:HD12	8:h:1347:PRO:HG3	1.97	0.45
1:i:1054:VAL:C	1:i:1056:ASP:H	2.23	0.45
1:i:1486:MET:CB	1:i:1487:ALA:HB2	2.46	0.45
2:j:1243:VAL:HG12	2:j:1245:ILE:N	2.29	0.45
2:j:1411:MET:CE	2:j:1498:VAL:HG21	2.46	0.45
3:k:1402:VAL:HG13	3:k:1502:PRO:CG	2.45	0.45
6:n:1056:THR:HB	6:n:1390:GLN:CD	2.42	0.45
6:n:1122:PHE:HD1	6:n:1447:PHE:HD1	1.63	0.45
7:o:1094:VAL:CG1	7:o:1095:GLY:H	2.28	0.45
2:B:109:LEU:C	2:B:111:ASP:H	2.24	0.45
2:B:295:GLU:C	6:F:337:GLN:NE2	2.67	0.45
3:C:64:ILE:HG22	3:C:65:LEU:N	2.31	0.45
3:C:237:HIS:C	3:C:238:ILE:HG13	2.39	0.45
5:E:84:THR:HG22	5:E:85:ASN:N	2.31	0.45
6:F:122:PHE:HD1	6:F:447:PHE:HD1	1.63	0.45
6:F:420:ILE:HG22	6:F:482:ASP:CG	2.41	0.45
1:I:120:ILE:HD13	1:I:120:ILE:O	2.16	0.45
1:I:419:VAL:HG13	1:I:425:VAL:HG21	1.98	0.45
1:I:458:ILE:HD12	1:I:458:ILE:H	1.82	0.45
2:J:210:GLU:CB	2:J:357:SER:O	2.64	0.45
3:K:230:VAL:HG21	3:K:303:ASP:H	1.80	0.45
3:K:508:GLN:CG	8:P:215:GLY:HA2	2.46	0.45
5:M:269:LEU:HD22	5:M:269:LEU:N	2.31	0.45
6:N:221:HIS:CD2	6:N:224:MET:SD	3.09	0.45
7:O:241:ILE:HD12	7:O:330:VAL:HG21	1.98	0.45
7:O:400:VAL:O	7:O:404:LEU:HB2	2.17	0.45
8:P:386:LEU:HD12	8:P:386:LEU:H	1.81	0.45
2:b:1045:LEU:HB2	6:f:1533:LEU:HB3	1.98	0.45
2:b:1348:LEU:CG	6:f:1086:ILE:CA	2.87	0.45
3:c:1229:VAL:HG12	3:c:1230:VAL:H	1.80	0.45
3:c:1231:HIS:HA	3:c:1232:PRO:HD3	1.72	0.45
4:d:1120:ILE:CG1	4:d:1439:ILE:HG21	2.44	0.45
4:d:1194:ILE:O	4:d:1194:ILE:HG12	2.15	0.45
4:d:1292:ILE:HG13	4:d:1293:LEU:C	2.42	0.45
4:d:1325:SER:O	4:d:1329:GLY:N	2.46	0.45
4:d:1392:ARG:HD3	4:d:1393:SER:N	2.31	0.45
5:e:1273:THR:CG2	5:e:1364:PRO:CA	2.72	0.45
6:f:1109:ILE:HG13	5:m:1039:LYS:NZ	2.32	0.45
6:f:1238:VAL:HG22	6:f:1239:SER:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1330:LEU:HB3	6:f:1375:SER:OG	2.17	0.45
6:f:1424:ARG:HE	6:f:1424:ARG:CA	2.17	0.45
6:f:1454:ILE:O	6:f:1457:THR:OG1	2.30	0.45
7:g:1241:ILE:HD12	7:g:1330:VAL:HG21	1.98	0.45
7:g:1291:ASN:HA	7:g:1312:ILE:HB	1.97	0.45
8:h:1414:PRO:HA	8:h:1415:SER:HA	1.60	0.45
1:i:1129:PHE:CD2	1:i:1129:PHE:N	2.84	0.45
1:i:1420:PRO:O	1:i:1424:CYS:HB3	2.16	0.45
1:i:1532:LEU:O	1:i:1536:VAL:HG23	2.16	0.45
2:j:1224:LYS:O	2:j:1343:ILE:HA	2.16	0.45
7:o:1109:MET:SD	7:o:1514:THR:CB	3.05	0.45
7:o:1226:TYR:CE1	7:o:1229:PHE:CB	3.00	0.45
7:o:1282:LEU:HD23	7:o:1303:ALA:O	2.17	0.45
7:o:1454:CYS:HB2	7:o:1461:ALA:HB1	1.98	0.45
8:p:1113:VAL:CG1	8:p:1451:GLN:HG3	2.37	0.45
1:A:66:GLY:CA	1:A:99:THR:HG22	2.47	0.45
2:B:466:GLY:C	2:B:467:ILE:HG13	2.41	0.45
3:C:202:ARG:HH21	3:C:323:SER:HB3	1.81	0.45
4:D:292:ILE:CG1	4:D:293:LEU:HA	2.47	0.45
5:E:297:LYS:HD2	5:E:297:LYS:HA	1.66	0.45
6:F:56:THR:HB	6:F:390:GLN:CD	2.42	0.45
6:F:337:GLN:HG2	6:F:347:ILE:CD1	2.46	0.45
7:G:165:ALA:CB	7:G:399:ILE:HG21	2.46	0.45
7:G:282:LEU:HD23	7:G:303:ALA:O	2.17	0.45
8:H:101:ASN:N	9:H:601:ADP:O2B	2.43	0.45
8:H:291:ILE:HD12	8:H:347:PRO:HG2	1.96	0.45
8:H:329:LEU:HD23	8:H:329:LEU:O	2.17	0.45
1:I:86:LEU:HD21	1:I:101:VAL:HG12	1.99	0.45
2:J:88:VAL:HG12	2:J:89:GLY:N	2.32	0.45
2:J:234:ALA:HA	2:J:325:VAL:HB	1.99	0.45
2:J:386:ASP:O	2:J:390:VAL:HG23	2.17	0.45
3:K:64:ILE:HG22	3:K:65:LEU:N	2.32	0.45
4:L:94:THR:C	4:L:96:VAL:H	2.25	0.45
4:L:185:ASN:H	4:L:187:LYS:N	2.14	0.45
6:N:342:ASP:O	6:N:343:LEU:C	2.59	0.45
8:P:247:VAL:HG22	8:P:248:ALA:N	2.32	0.45
8:P:437:TYR:C	8:P:437:TYR:CD2	2.95	0.45
2:b:1210:GLU:CB	2:b:1357:SER:O	2.64	0.45
2:b:1295:GLU:HB2	6:f:1337:GLN:CD	2.41	0.45
4:d:1254:VAL:HG21	8:h:1265:VAL:HG22	1.97	0.45
4:d:1367:ARG:C	4:d:1369:ASN:N	2.67	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1399:LEU:HD12	6:f:1399:LEU:O	2.17	0.45
7:g:1109:MET:SD	7:g:1514:THR:CB	3.05	0.45
1:i:1025:ILE:HG22	1:i:1026:ARG:N	2.32	0.45
2:j:1037:LEU:CB	2:j:1444:LEU:HD13	2.47	0.45
2:j:1389:SER:O	2:j:1393:GLN:HG3	2.17	0.45
3:k:1064:ILE:HG22	3:k:1065:LEU:N	2.31	0.45
4:l:1094:THR:C	4:l:1096:VAL:H	2.25	0.45
4:l:1273:ASN:HD22	7:o:1268:GLN:HE22	1.65	0.45
5:m:1500:SER:O	5:m:1504:LYS:HG2	2.17	0.45
6:n:1016:ASP:HA	6:n:1019:LEU:CG	2.45	0.45
6:n:1497:ASP:CG	6:n:1498:SER:N	2.74	0.45
8:p:1006:PRO:CB	8:p:1007:GLN:CA	2.93	0.45
8:p:1247:VAL:HG22	8:p:1248:ALA:N	2.32	0.45
1:A:55:ASP:O	1:A:57:ILE:N	2.50	0.45
1:A:86:LEU:HD21	1:A:101:VAL:HG12	1.99	0.45
1:A:336:THR:HB	1:A:354:TYR:HD1	1.80	0.45
2:B:4:GLN:CB	3:C:71:ALA:HB3	2.45	0.45
3:C:47:MET:HE3	3:C:49:LEU:HD21	1.99	0.45
3:C:298:GLU:HA	3:C:320:VAL:H	1.81	0.45
4:D:226:PRO:CG	4:D:311:MET:HG2	2.47	0.45
5:E:189:GLY:O	5:E:190:SER:HB2	2.17	0.45
5:E:439:VAL:HB	5:E:528:VAL:HG13	1.99	0.45
6:F:141:THR:CG2	6:F:142:ASN:N	2.78	0.45
6:F:146:ASP:O	6:F:147:ARG:C	2.59	0.45
6:F:173:ILE:HD11	6:F:209:PHE:N	2.32	0.45
6:F:238:VAL:HG22	6:F:239:SER:N	2.32	0.45
7:G:317:ARG:O	7:G:317:ARG:HD2	2.16	0.45
8:H:96:MET:CB	8:H:515:GLU:OE1	2.65	0.45
1:I:69:ILE:O	1:I:73:LEU:HD13	2.16	0.45
1:I:486:MET:CB	1:I:487:ALA:HB2	2.46	0.45
2:J:232:LEU:HD22	2:J:233:ILE:H	1.80	0.45
2:J:456:VAL:HG13	2:J:457:SER:N	2.32	0.45
2:J:466:GLY:C	2:J:467:ILE:HG13	2.41	0.45
4:L:226:PRO:CG	4:L:311:MET:HG2	2.47	0.45
5:M:84:THR:HG22	5:M:85:ASN:N	2.31	0.45
5:M:439:VAL:HB	5:M:528:VAL:HG13	1.99	0.45
6:N:238:VAL:HG22	6:N:239:SER:N	2.32	0.45
6:N:399:LEU:O	6:N:399:LEU:HD12	2.17	0.45
7:O:207:GLY:HA3	7:O:379:ARG:HH11	1.81	0.45
7:O:317:ARG:O	7:O:317:ARG:HD2	2.16	0.45
7:O:528:GLY:HA3	7:O:529:SER:C	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:96:MET:CB	8:P:515:GLU:OE1	2.65	0.45
8:P:464:ALA:HB1	8:P:474:VAL:HG21	1.98	0.45
1:a:1054:VAL:C	1:a:1056:ASP:H	2.23	0.45
1:a:1120:ILE:O	1:a:1120:ILE:HD13	2.17	0.45
1:a:1218:LEU:HD23	1:a:1385:ILE:HG12	1.98	0.45
3:c:1174:LEU:HG	3:c:1219:VAL:CG2	2.47	0.45
3:c:1402:VAL:HG13	3:c:1502:PRO:CG	2.45	0.45
3:c:1471:LEU:HD12	3:c:1491:ILE:HG21	1.99	0.45
4:d:1157:SER:C	4:d:1159:SER:H	2.24	0.45
6:f:1016:ASP:O	6:f:1020:LYS:N	2.46	0.45
6:f:1296:ILE:HD12	6:f:1328:LEU:HD22	1.99	0.45
7:g:1159:GLU:O	7:g:1179:VAL:HG11	2.17	0.45
7:g:1400:VAL:O	7:g:1404:LEU:HB2	2.17	0.45
2:j:1109:LEU:C	2:j:1111:ASP:H	2.24	0.45
2:j:1222:GLN:HB3	2:j:1223:PRO:HD2	1.98	0.45
2:j:1386:ASP:O	2:j:1390:VAL:HG23	2.17	0.45
3:k:1047:MET:HG2	3:k:1048:LEU:N	2.30	0.45
3:k:1174:LEU:HG	3:k:1219:VAL:CG2	2.47	0.45
4:l:1250:ASN:HA	7:o:1259:VAL:CG1	2.32	0.45
5:m:1210:ASN:HD22	5:m:1210:ASN:N	2.08	0.45
6:n:1173:ILE:HD11	6:n:1209:PHE:N	2.32	0.45
6:n:1370:ASN:HD22	6:n:1370:ASN:N	2.14	0.45
7:o:1329:ALA:HA	7:o:1371:ALA:HB1	1.98	0.45
8:p:1209:VAL:CG2	8:p:1386:LEU:HD11	2.35	0.45
8:p:1251:THR:O	8:p:1252:CYS:C	2.59	0.45
1:A:532:LEU:O	1:A:536:VAL:HG23	2.16	0.45
2:B:30:GLY:HA2	2:B:33:VAL:HG21	1.97	0.45
2:B:386:ASP:O	2:B:390:VAL:HG23	2.17	0.45
3:C:222:GLY:HA3	3:C:368:LEU:O	2.17	0.45
3:C:230:VAL:HG21	3:C:303:ASP:H	1.80	0.45
9:C:1101:ADP:O1A	10:C:1102:BEF:F3	2.24	0.45
4:D:103:LEU:HD22	4:D:515:VAL:HG21	1.99	0.45
4:D:157:SER:C	4:D:159:SER:H	2.24	0.45
6:F:108:PHE:CE1	6:F:118:ILE:HG13	2.50	0.45
6:F:296:ILE:HG12	6:F:317:LEU:HB2	1.98	0.45
7:G:191:ARG:NE	7:G:191:ARG:C	2.75	0.45
2:J:45:LEU:HB2	6:N:533:LEU:HB3	1.95	0.45
3:K:436:GLY:C	3:K:438:GLN:H	2.24	0.45
4:L:299:ASP:OD1	4:L:301:ALA:HB3	2.16	0.45
9:L:601:ADP:N3	9:L:601:ADP:H2'	2.31	0.45
6:N:72:THR:O	6:N:75:LEU:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:173:ILE:HD11	6:N:209:PHE:N	2.32	0.45
7:O:226:TYR:CE1	7:O:229:PHE:CB	3.00	0.45
7:O:291:ASN:HA	7:O:312:ILE:HB	1.97	0.45
8:P:63:ILE:HD12	8:P:74:GLU:CG	2.45	0.45
8:P:71:MET:O	8:P:75:LEU:HG	2.17	0.45
8:P:251:THR:O	8:P:252:CYS:C	2.59	0.45
4:d:1313:VAL:HG11	4:d:1361:VAL:HG21	1.99	0.45
6:f:1153:VAL:CB	6:f:1507:TRP:CB	2.94	0.45
6:f:1207:THR:HB	6:f:1380:ILE:HA	1.99	0.45
6:f:1362:GLU:CG	6:f:1364:PHE:CE2	2.93	0.45
7:g:1094:VAL:CG1	7:g:1095:GLY:H	2.28	0.45
7:g:1191:ARG:NE	7:g:1191:ARG:C	2.75	0.45
7:g:1207:GLY:HA3	7:g:1379:ARG:HH11	1.81	0.45
7:g:1438:ILE:HD12	7:g:1438:ILE:N	2.32	0.45
8:h:1134:ALA:O	8:h:1138:THR:HG23	2.17	0.45
1:i:1143:VAL:HG11	1:i:1425:VAL:HG22	1.99	0.45
1:i:1256:MET:HE3	1:i:1260:VAL:O	2.17	0.45
2:j:1219:GLY:HA3	2:j:1304:ASN:ND2	2.31	0.45
2:j:1286:ASN:HD22	2:j:1287:ARG:N	2.14	0.45
3:k:1048:LEU:HD21	3:k:1064:ILE:HD13	1.99	0.45
3:k:1219:VAL:HG13	3:k:1379:ILE:HD12	1.99	0.45
3:k:1471:LEU:HD12	3:k:1491:ILE:HG21	1.99	0.45
5:m:1184:ALA:O	5:m:1188:LEU:CB	2.64	0.45
5:m:1439:VAL:HB	5:m:1528:VAL:HG13	1.99	0.45
6:n:1342:ASP:O	6:n:1343:LEU:C	2.59	0.45
6:n:1420:ILE:HB	6:n:1482:ASP:OD1	2.15	0.45
9:n:1601:ADP:C8	9:n:1601:ADP:O2'	2.69	0.45
7:o:1296:LYS:HA	7:o:1318:VAL:HG23	1.97	0.45
2:B:219:GLY:HA3	2:B:304:ASN:ND2	2.31	0.45
2:B:293:TYR:O	2:B:297:LEU:HD23	2.17	0.45
3:C:414:PRO:HG2	3:C:481:THR:CG2	2.47	0.45
3:C:471:LEU:HD12	3:C:491:ILE:HG21	1.98	0.45
4:D:263:ILE:C	4:D:265:LYS:H	2.23	0.45
4:D:292:ILE:HG13	4:D:293:LEU:C	2.42	0.45
6:F:207:THR:HB	6:F:380:ILE:HA	1.99	0.45
6:F:342:ASP:O	6:F:343:LEU:C	2.59	0.45
6:F:436:ALA:HA	6:F:437:LYS:HA	1.66	0.45
8:H:146:VAL:C	8:H:148:GLY:N	2.75	0.45
8:H:247:VAL:HG22	8:H:248:ALA:N	2.32	0.45
1:I:55:ASP:O	1:I:57:ILE:N	2.50	0.45
3:K:10:ALA:HA	3:K:11:SER:HA	1.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:209:MET:HE1	4:L:375:VAL:HG11	1.97	0.45
4:L:313:VAL:HG11	4:L:361:VAL:HG21	1.99	0.45
5:M:314:LYS:HZ1	5:M:338:ASN:HA	1.82	0.45
6:N:491:VAL:HG12	6:N:492:ASP:H	1.82	0.45
6:N:540:THR:CB	6:N:541:LEU:HD22	2.44	0.45
8:P:226:MET:HE1	8:P:328:GLU:CG	2.47	0.45
1:a:1419:VAL:HG13	1:a:1425:VAL:HG21	1.98	0.45
2:b:1219:GLY:HA3	2:b:1304:ASN:ND2	2.31	0.45
2:b:1456:VAL:HG13	2:b:1457:SER:N	2.32	0.45
3:c:1048:LEU:HD21	3:c:1064:ILE:HD13	1.99	0.45
5:e:1084:THR:HA	5:e:1418:GLU:OE1	2.17	0.45
5:e:1500:SER:O	5:e:1504:LYS:HG2	2.17	0.45
6:f:1539:SER:O	6:f:1540:THR:C	2.58	0.45
7:g:1282:LEU:HD23	7:g:1303:ALA:O	2.17	0.45
8:h:1175:GLU:H	8:h:1175:GLU:HG3	1.45	0.45
8:h:1237:LYS:HB2	8:h:1314:ASN:CB	2.31	0.45
2:j:1370:ARG:O	2:j:1372:ALA:N	2.50	0.45
3:k:1222:GLY:HA3	3:k:1368:LEU:O	2.17	0.45
4:l:1103:LEU:HD22	4:l:1515:VAL:HG21	1.99	0.45
4:l:1185:ASN:H	4:l:1187:LYS:N	2.14	0.45
5:m:1084:THR:HA	5:m:1418:GLU:OE1	2.17	0.45
5:m:1267:VAL:HG12	5:m:1268:LYS:N	2.32	0.45
5:m:1340:LEU:HD23	5:m:1340:LEU:H	1.81	0.45
6:n:1491:VAL:HG12	6:n:1492:ASP:H	1.82	0.45
7:o:1165:ALA:CB	7:o:1399:ILE:HG21	2.46	0.45
8:p:1329:LEU:HD23	8:p:1329:LEU:O	2.17	0.45
8:p:1332:LEU:O	8:p:1335:VAL:HB	2.17	0.45
1:A:25:ILE:HG22	1:A:26:ARG:N	2.32	0.45
1:A:129:PHE:N	1:A:129:PHE:CD2	2.84	0.45
2:B:74:ALA:O	2:B:78:VAL:HG23	2.17	0.45
2:B:222:GLN:HB3	2:B:223:PRO:HD2	1.98	0.45
3:C:219:VAL:HG13	3:C:379:ILE:HD12	1.99	0.45
5:E:35:GLN:CD	5:E:36:GLY:CA	2.86	0.45
5:E:500:SER:O	5:E:504:LYS:HG2	2.17	0.45
6:F:92:THR:OG1	9:F:601:ADP:PB	2.74	0.45
6:F:117:ILE:HG12	5:M:33:LYS:CE	2.39	0.45
7:G:170:LEU:O	7:G:170:LEU:CD2	2.58	0.45
1:I:62:VAL:O	1:I:397:GLU:HG3	2.17	0.45
2:J:40:LYS:HA	6:N:116:ARG:HG3	1.99	0.45
2:J:88:VAL:CG1	2:J:393:GLN:HE22	2.22	0.45
5:M:267:VAL:HG12	5:M:268:LYS:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:412:ASN:C	5:M:414:MET:H	2.24	0.45
5:M:456:GLU:HA	5:M:456:GLU:OE2	2.17	0.45
5:M:500:SER:O	5:M:504:LYS:HG2	2.17	0.45
6:N:166:LEU:CD2	6:N:205:LYS:HA	2.47	0.45
6:N:167:THR:CA	6:N:168:GLU:CB	2.95	0.45
6:N:178:VAL:HG21	6:N:402:VAL:CG1	2.47	0.45
6:N:207:THR:HB	6:N:380:ILE:HA	1.99	0.45
6:N:296:ILE:HD12	6:N:328:LEU:HD22	1.99	0.45
6:N:330:LEU:O	6:N:372:ASP:O	2.34	0.45
7:O:438:ILE:N	7:O:438:ILE:HD12	2.32	0.45
1:a:1012:THR:HA	1:a:1013:LEU:HA	1.68	0.45
1:a:1062:VAL:O	1:a:1397:GLU:HG3	2.17	0.45
1:a:1066:GLY:CA	1:a:1099:THR:HG22	2.47	0.45
1:a:1420:PRO:O	1:a:1424:CYS:HB3	2.16	0.45
2:b:1088:VAL:HG12	2:b:1089:GLY:N	2.32	0.45
2:b:1235:ASN:ND2	3:c:1304:LEU:HD21	2.32	0.45
2:b:1278:LYS:C	2:b:1280:GLY:H	2.25	0.45
3:c:1112:ILE:C	3:c:1114:LYS:N	2.74	0.45
3:c:1113:GLU:HB2	1:i:1460:LYS:HD2	1.98	0.45
5:e:1351:LEU:HD22	5:e:1352:GLU:H	1.82	0.45
6:f:1079:ALA:HB1	6:f:1523:ILE:HD11	1.99	0.45
6:f:1420:ILE:HG22	6:f:1482:ASP:CG	2.41	0.45
7:g:1454:CYS:HB3	7:g:1461:ALA:HA	1.98	0.45
8:h:1062:ILE:HD13	8:h:1063:ILE:N	2.32	0.45
2:j:1029:VAL:C	2:j:1033:VAL:CG2	2.88	0.45
2:j:1314:VAL:HG12	3:k:1231:HIS:ND1	2.32	0.45
6:n:1296:ILE:HD12	6:n:1328:LEU:HD22	1.99	0.45
6:n:1343:LEU:HA	6:n:1344:SER:HA	1.48	0.45
6:n:1415:ALA:HA	9:n:1601:ADP:H1'	1.98	0.45
7:o:1159:GLU:O	7:o:1179:VAL:HG11	2.17	0.45
7:o:1191:ARG:NE	7:o:1191:ARG:C	2.75	0.45
7:o:1207:GLY:HA3	7:o:1379:ARG:HH11	1.81	0.45
7:o:1400:VAL:O	7:o:1404:LEU:HB2	2.17	0.45
8:p:1335:VAL:HG13	8:p:1379:SER:CB	2.46	0.45
1:A:120:ILE:HD13	1:A:120:ILE:O	2.16	0.45
1:A:256:MET:HE3	1:A:260:VAL:O	2.17	0.45
2:B:15:ALA:O	2:B:16:GLU:C	2.60	0.45
2:B:368:VAL:O	2:B:377:LEU:HD23	2.17	0.45
2:B:456:VAL:HG13	2:B:457:SER:N	2.32	0.45
3:C:402:VAL:HG13	3:C:502:PRO:CG	2.45	0.45
5:E:84:THR:HA	5:E:418:GLU:OE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:150:PHE:CD1	5:E:472:PHE:HE2	2.35	0.45
5:E:255:PRO:HG3	5:E:336:LEU:CB	2.47	0.45
6:F:204:PRO:C	6:F:207:THR:HG23	2.42	0.45
6:F:399:LEU:O	6:F:399:LEU:HD12	2.17	0.45
6:F:491:VAL:HG12	6:F:492:ASP:H	1.82	0.45
7:G:159:GLU:O	7:G:179:VAL:HG11	2.17	0.45
8:H:62:ILE:HD13	8:H:63:ILE:N	2.32	0.45
8:H:252:CYS:HB2	8:H:343:ARG:N	2.32	0.45
8:H:332:LEU:O	8:H:335:VAL:HB	2.17	0.45
8:H:335:VAL:HG13	8:H:379:SER:CB	2.46	0.45
1:I:129:PHE:N	1:I:129:PHE:CD2	2.84	0.45
1:I:218:LEU:HD23	1:I:385:ILE:HG12	1.98	0.45
2:J:32:LEU:HD12	6:N:532:GLU:OE2	2.17	0.45
2:J:222:GLN:HB3	2:J:223:PRO:HD2	1.98	0.45
3:K:222:GLY:HA3	3:K:368:LEU:O	2.17	0.45
4:L:418:GLU:HG2	4:L:451:PRO:HD3	1.98	0.45
5:M:416:VAL:C	5:M:418:GLU:H	2.25	0.45
6:N:539:SER:HB2	6:N:542:LYS:HD3	1.99	0.45
7:O:204:ILE:HA	7:O:205:PRO:HD3	1.79	0.45
8:P:134:ALA:O	8:P:138:THR:HG23	2.17	0.45
1:a:1187:VAL:CG1	1:a:1382:SER:H	2.30	0.45
3:c:1047:MET:HE3	3:c:1049:LEU:HD21	1.99	0.45
4:d:1094:THR:C	4:d:1096:VAL:H	2.25	0.45
4:d:1181:ILE:HD11	4:d:1375:VAL:HG23	1.98	0.45
4:d:1241:ILE:HD12	4:d:1241:ILE:N	2.30	0.45
5:e:1267:VAL:HG12	5:e:1268:LYS:N	2.32	0.45
6:f:1167:THR:CB	6:f:1168:GLU:HB3	2.47	0.45
6:f:1497:ASP:CG	6:f:1498:SER:N	2.74	0.45
8:h:1096:MET:CB	8:h:1515:GLU:OE1	2.65	0.45
8:h:1252:CYS:HB2	8:h:1343:ARG:N	2.32	0.45
1:i:1187:VAL:CG1	1:i:1382:SER:H	2.30	0.45
3:k:1225:LEU:HD13	3:k:1320:VAL:HG11	1.96	0.45
3:k:1298:GLU:HA	3:k:1320:VAL:H	1.81	0.45
4:l:1417:PRO:O	4:l:1421:ILE:HG12	2.16	0.45
8:p:1226:MET:HE1	8:p:1328:GLU:CG	2.47	0.45
8:p:1437:TYR:C	8:p:1437:TYR:CD2	2.95	0.45
1:A:120:ILE:HG21	1:A:125:ILE:CG1	2.47	0.44
2:B:203:LEU:O	2:B:204:SER:OG	2.30	0.44
2:B:411:MET:HG2	2:B:411:MET:H	1.53	0.44
3:C:495:VAL:HG23	3:C:500:TRP:CH2	2.49	0.44
4:D:147:ARG:O	4:D:151:VAL:HG23	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:238:GLN:HE22	4:D:318:ARG:NH1	2.15	0.44
4:D:299:ASP:OD1	4:D:301:ALA:HB3	2.16	0.44
5:E:84:THR:O	5:E:90:ILE:HD11	2.18	0.44
5:E:184:ALA:O	5:E:188:LEU:CB	2.64	0.44
6:F:83:GLN:OE1	6:F:515:ASN:ND2	2.50	0.44
6:F:122:PHE:CD1	6:F:447:PHE:HD1	2.35	0.44
6:F:539:SER:HB2	6:F:542:LYS:HD3	2.00	0.44
7:G:438:ILE:N	7:G:438:ILE:HD12	2.32	0.44
1:I:118:ASN:C	1:I:119:LYS:CD	2.88	0.44
3:K:250:LEU:CG	3:K:301:VAL:CB	2.92	0.44
3:K:450:GLU:C	3:K:453:PRO:HD2	2.42	0.44
4:L:181:ILE:HD11	4:L:375:VAL:HG23	1.98	0.44
4:L:524:ILE:CB	7:O:52:LEU:O	2.64	0.44
6:N:122:PHE:CD1	6:N:447:PHE:HD1	2.35	0.44
6:N:167:THR:CB	6:N:168:GLU:HB3	2.47	0.44
6:N:216:ASP:C	6:N:217:HIS:CG	2.96	0.44
6:N:422:LEU:HD13	6:N:517:ILE:HD11	1.98	0.44
6:N:497:ASP:CG	6:N:498:SER:N	2.74	0.44
7:O:109:MET:SD	7:O:514:THR:CB	3.05	0.44
7:O:123:HIS:ND1	7:O:123:HIS:N	2.65	0.44
8:P:428:ILE:CD1	8:P:478:LEU:HD13	2.48	0.44
1:a:1029:ASN:HD22	1:a:1538:ILE:HG23	1.80	0.44
1:a:1086:LEU:HD21	1:a:1101:VAL:HG12	1.99	0.44
1:a:1145:SER:C	1:a:1147:SER:H	2.25	0.44
2:b:1424:GLY:O	2:b:1427:SER:OG	2.33	0.44
4:d:1392:ARG:HD3	4:d:1392:ARG:C	2.42	0.44
6:f:1167:THR:CA	6:f:1168:GLU:CB	2.95	0.44
8:h:1251:THR:O	8:h:1252:CYS:C	2.59	0.44
2:j:1088:VAL:HG12	2:j:1089:GLY:N	2.32	0.44
2:j:1234:ALA:HA	2:j:1325:VAL:HB	1.99	0.44
2:j:1326:VAL:HG13	3:k:1304:LEU:HD22	1.99	0.44
2:j:1456:VAL:HG13	2:j:1457:SER:N	2.32	0.44
3:k:1084:THR:O	3:k:1085:GLN:C	2.60	0.44
3:k:1306:GLN:O	3:k:1307:HIS:C	2.59	0.44
3:k:1414:PRO:HG2	3:k:1481:THR:CG2	2.47	0.44
4:l:1038:SER:HB3	4:l:1046:LYS:HZ2	1.83	0.44
4:l:1182:SER:HB2	4:l:1187:LYS:CE	2.46	0.44
4:l:1226:PRO:CG	4:l:1311:MET:HG2	2.47	0.44
6:n:1143:LEU:CD1	6:n:1145:ASN:CB	2.96	0.44
6:n:1153:VAL:CB	6:n:1507:TRP:CB	2.94	0.44
6:n:1296:ILE:HG12	6:n:1317:LEU:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1291:ASN:HA	7:o:1312:ILE:HB	1.97	0.44
8:p:1071:MET:O	8:p:1075:LEU:HG	2.17	0.44
8:p:1146:VAL:C	8:p:1148:GLY:N	2.75	0.44
8:p:1424:GLY:O	8:p:1428:ILE:HG13	2.18	0.44
1:A:221:GLY:HA2	1:A:382:SER:CB	2.42	0.44
1:A:419:VAL:HG13	1:A:425:VAL:HG21	1.98	0.44
1:A:433:LEU:O	1:A:437:ALA:CA	2.64	0.44
2:B:37:LEU:CB	2:B:444:LEU:HD13	2.47	0.44
3:C:306:GLN:O	3:C:307:HIS:C	2.59	0.44
4:D:94:THR:C	4:D:96:VAL:H	2.25	0.44
5:E:271:ILE:CB	5:E:362:ILE:HA	2.48	0.44
5:E:387:THR:HA	5:E:388:THR:HA	1.61	0.44
6:F:153:VAL:CB	6:F:507:TRP:CB	2.94	0.44
6:F:433:LYS:HG3	6:F:444:ILE:CG2	2.46	0.44
7:G:109:MET:SD	7:G:514:THR:CB	3.05	0.44
7:G:241:ILE:HD12	7:G:330:VAL:HG21	1.98	0.44
8:H:256:ILE:HD13	8:H:280:GLU:OE1	2.17	0.44
1:I:112:ALA:HB1	1:I:539:LEU:HD21	1.98	0.44
2:J:370:ARG:O	2:J:372:ALA:N	2.50	0.44
3:K:414:PRO:HG2	3:K:481:THR:CG2	2.47	0.44
4:L:521:ILE:CG2	7:O:52:LEU:N	2.78	0.44
5:M:45:GLU:C	5:M:47:LYS:N	2.75	0.44
5:M:73:ILE:O	5:M:74:LEU:HD22	2.17	0.44
5:M:84:THR:HA	5:M:418:GLU:OE1	2.17	0.44
6:N:90:GLY:O	6:N:94:VAL:CG2	2.34	0.44
6:N:214:VAL:HG22	6:N:377:THR:OG1	2.18	0.44
7:O:159:GLU:O	7:O:179:VAL:HG11	2.17	0.44
7:O:241:ILE:HD12	7:O:330:VAL:CG2	2.48	0.44
8:P:62:ILE:HD13	8:P:63:ILE:N	2.32	0.44
2:b:1029:VAL:C	2:b:1033:VAL:CG2	2.88	0.44
2:b:1389:SER:O	2:b:1393:GLN:HG3	2.17	0.44
3:c:1414:PRO:HG2	3:c:1481:THR:CG2	2.47	0.44
5:e:1239:LEU:HD23	5:e:1240:ILE:N	2.31	0.44
6:f:1122:PHE:CD1	6:f:1447:PHE:HD1	2.35	0.44
6:f:1141:THR:CB	6:f:1409:LYS:HG3	2.45	0.44
6:f:1146:ASP:O	6:f:1147:ARG:C	2.59	0.44
7:g:1058:GLN:NE2	8:p:1006:PRO:O	2.50	0.44
7:g:1241:ILE:HD12	7:g:1330:VAL:CG2	2.48	0.44
7:g:1382:ALA:O	7:g:1386:ILE:HG13	2.18	0.44
8:h:1332:LEU:O	8:h:1335:VAL:HB	2.17	0.44
1:i:1120:ILE:HG21	1:i:1125:ILE:CG1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:1210:GLY:O	1:i:1211:LYS:CB	2.64	0.44
1:i:1218:LEU:HD23	1:i:1385:ILE:HG12	1.98	0.44
2:j:1088:VAL:CG1	2:j:1393:GLN:HE22	2.22	0.44
2:j:1417:THR:HG23	2:j:1418:GLU:N	2.33	0.44
2:j:1424:GLY:O	2:j:1427:SER:OG	2.33	0.44
2:j:1513:ASN:C	2:j:1514:ILE:HD13	2.36	0.44
3:k:1508:GLN:CG	8:p:1215:GLY:HA2	2.47	0.44
4:l:1313:VAL:HG11	4:l:1361:VAL:HG21	1.99	0.44
5:m:1083:ILE:HG13	5:m:1414:MET:HE2	1.99	0.44
5:m:1084:THR:O	5:m:1090:ILE:HD11	2.18	0.44
6:n:1083:GLN:OE1	6:n:1515:ASN:ND2	2.51	0.44
6:n:1178:VAL:HG21	6:n:1402:VAL:CG1	2.47	0.44
6:n:1330:LEU:HB3	6:n:1375:SER:OG	2.17	0.44
7:o:1241:ILE:HD12	7:o:1330:VAL:CG2	2.48	0.44
8:p:1256:ILE:HD13	8:p:1280:GLU:OE1	2.17	0.44
2:B:263:LYS:HZ1	3:C:266:GLU:HG2	1.82	0.44
2:B:278:LYS:C	2:B:280:GLY:H	2.25	0.44
2:B:370:ARG:O	2:B:371:GLY:C	2.61	0.44
4:D:370:ASN:O	4:D:373:PRO:HD3	2.18	0.44
5:E:83:ILE:HG13	5:E:414:MET:HE2	1.99	0.44
5:E:267:VAL:HG12	5:E:268:LYS:N	2.32	0.44
5:E:351:LEU:HD22	5:E:352:GLU:H	1.82	0.44
6:F:216:ASP:C	6:F:217:HIS:CG	2.96	0.44
7:G:329:ALA:HA	7:G:371:ALA:HB1	1.98	0.44
8:H:428:ILE:CD1	8:H:478:LEU:HD13	2.48	0.44
1:I:90:GLN:CD	1:I:101:VAL:HG21	2.42	0.44
2:J:224:LYS:O	2:J:343:ILE:HA	2.16	0.44
2:J:278:LYS:C	2:J:280:GLY:H	2.25	0.44
3:K:306:GLN:O	3:K:307:HIS:C	2.59	0.44
3:K:457:ILE:HD13	3:K:467:LEU:CD1	2.19	0.44
4:L:138:MET:HE3	4:L:138:MET:HB3	1.88	0.44
4:L:392:ARG:HD3	4:L:392:ARG:C	2.42	0.44
5:M:189:GLY:O	5:M:190:SER:HB2	2.17	0.44
5:M:340:LEU:HD23	5:M:340:LEU:H	1.81	0.44
6:N:330:LEU:HB3	6:N:375:SER:OG	2.17	0.44
6:N:420:ILE:HG22	6:N:482:ASP:CG	2.41	0.44
7:O:244:LEU:HB3	7:O:246:VAL:HG22	1.99	0.44
2:b:1234:ALA:HA	2:b:1325:VAL:HB	1.99	0.44
2:b:1250:PHE:HA	6:f:1250:GLY:C	2.42	0.44
2:b:1482:MET:SD	2:b:1487:ILE:HB	2.57	0.44
5:e:1073:ILE:O	5:e:1074:LEU:HD22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1043:LEU:HD21	6:f:1161:LYS:CA	2.42	0.44
8:h:1416:GLY:C	8:h:1418:LYS:H	2.25	0.44
8:h:1426:THR:HG23	8:h:1427:GLU:N	2.31	0.44
1:i:1055:ASP:O	1:i:1057:ILE:N	2.50	0.44
2:j:1116:HIS:HA	2:j:1117:PRO:HD3	1.74	0.44
2:j:1326:VAL:CG2	3:k:1304:LEU:HD22	2.44	0.44
3:k:1450:GLU:C	3:k:1453:PRO:HD2	2.43	0.44
4:l:1392:ARG:HD3	4:l:1392:ARG:C	2.42	0.44
5:m:1351:LEU:HD22	5:m:1352:GLU:H	1.83	0.44
5:m:1416:VAL:C	5:m:1418:GLU:H	2.25	0.44
5:m:1429:VAL:O	5:m:1432:ASN:HB2	2.18	0.44
5:m:1555:ILE:O	6:n:1046:LEU:HA	2.18	0.44
6:n:1133:LEU:CD1	6:n:1422:LEU:HD21	2.28	0.44
6:n:1195:GLU:OE1	6:n:1197:MET:CE	2.65	0.44
6:n:1352:GLY:C	6:n:1367:VAL:HG12	2.40	0.44
7:o:1241:ILE:HD12	7:o:1330:VAL:HG21	1.98	0.44
7:o:1438:ILE:HD12	7:o:1438:ILE:N	2.32	0.44
7:o:1448:VAL:HA	7:o:1451:ARG:HB2	2.00	0.44
8:p:1101:ASN:HD22	8:p:1101:ASN:N	2.16	0.44
8:p:1204:VAL:CG1	8:p:1405:VAL:CG1	2.92	0.44
8:p:1252:CYS:HB2	8:p:1343:ARG:N	2.32	0.44
8:p:1416:GLY:C	8:p:1418:LYS:H	2.25	0.44
1:A:90:GLN:HE21	1:A:527:SER:HB3	1.83	0.44
1:A:145:SER:C	1:A:147:SER:H	2.26	0.44
2:B:417:THR:HG23	2:B:418:GLU:N	2.33	0.44
4:D:313:VAL:HG11	4:D:361:VAL:HG21	1.99	0.44
5:E:37:ASN:HB2	6:N:114:HIS:HA	2.00	0.44
5:E:45:GLU:C	5:E:47:LYS:N	2.75	0.44
5:E:340:LEU:HD23	5:E:340:LEU:H	1.81	0.44
6:F:101:LEU:O	6:F:101:LEU:HD23	2.17	0.44
7:G:424:LEU:O	7:G:425:ARG:C	2.61	0.44
8:H:134:ALA:O	8:H:138:THR:HG23	2.17	0.44
1:I:54:VAL:HG12	1:I:56:ASP:N	2.29	0.44
1:I:91:ASP:HA	1:I:95:GLY:HA2	2.00	0.44
4:L:417:PRO:O	4:L:421:ILE:HG12	2.16	0.44
6:N:101:LEU:O	6:N:101:LEU:HD23	2.17	0.44
6:N:159:LEU:CA	6:N:164:ALA:HB2	2.41	0.44
8:P:101:ASN:N	8:P:101:ASN:HD22	2.16	0.44
8:P:209:VAL:CG2	8:P:386:LEU:HD11	2.35	0.44
8:P:332:LEU:O	8:P:335:VAL:HB	2.17	0.44
8:P:416:GLY:C	8:P:418:LYS:H	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:424:GLY:O	8:P:425:ALA:C	2.61	0.44
1:a:1129:PHE:CD2	1:a:1129:PHE:N	2.84	0.44
1:a:1143:VAL:HG11	1:a:1425:VAL:HG22	1.99	0.44
1:a:1256:MET:HE3	1:a:1260:VAL:O	2.17	0.44
2:b:1217:LYS:HB3	2:b:1217:LYS:HE2	1.75	0.44
2:b:1370:ARG:O	2:b:1371:GLY:C	2.61	0.44
2:b:1370:ARG:O	2:b:1372:ALA:N	2.50	0.44
2:b:1417:THR:HG23	2:b:1418:GLU:N	2.33	0.44
3:c:1222:GLY:HA3	3:c:1368:LEU:O	2.17	0.44
3:c:1467:LEU:HD21	3:c:1491:ILE:CG2	2.46	0.44
4:d:1038:SER:HB3	4:d:1046:LYS:HZ2	1.82	0.44
4:d:1370:ASN:O	4:d:1373:PRO:HD3	2.18	0.44
5:e:1034:ASP:CA	6:n:1117:ILE:HD12	2.41	0.44
5:e:1429:VAL:O	5:e:1432:ASN:HB2	2.18	0.44
6:f:1160:THR:N	6:f:1164:ALA:HB3	2.31	0.44
6:f:1166:LEU:CD2	6:f:1205:LYS:HA	2.47	0.44
6:f:1204:PRO:C	6:f:1207:THR:HG23	2.42	0.44
6:f:1433:LYS:HB3	6:f:1444:ILE:HG13	2.00	0.44
6:f:1539:SER:HB2	6:f:1542:LYS:HD3	2.00	0.44
7:g:1082:THR:HG21	7:g:1517:ILE:HD11	1.99	0.44
7:g:1235:LYS:CB	7:g:1352:PHE:C	2.91	0.44
8:h:1071:MET:O	8:h:1075:LEU:HG	2.17	0.44
8:h:1311:HIS:CG	8:h:1312:TYR:N	2.86	0.44
8:h:1424:GLY:O	8:h:1428:ILE:HG13	2.17	0.44
1:i:1112:ALA:HB1	1:i:1539:LEU:HD21	1.98	0.44
2:j:1074:ALA:O	2:j:1078:VAL:HG23	2.17	0.44
2:j:1116:HIS:CE1	2:j:1118:GLN:CB	2.99	0.44
3:k:1051:PRO:O	3:k:1052:MET:CG	2.63	0.44
3:k:1310:LEU:HD21	3:k:1316:VAL:HG22	1.99	0.44
6:n:1016:ASP:OD1	6:n:1016:ASP:N	2.36	0.44
6:n:1043:LEU:HD21	6:n:1161:LYS:CA	2.42	0.44
6:n:1079:ALA:HB1	6:n:1523:ILE:HD11	1.98	0.44
6:n:1101:LEU:O	6:n:1101:LEU:HD23	2.17	0.44
6:n:1167:THR:CB	6:n:1168:GLU:HB3	2.47	0.44
6:n:1212:GLY:O	6:n:1213:LEU:C	2.60	0.44
6:n:1399:LEU:HD12	6:n:1399:LEU:O	2.17	0.44
8:p:1424:GLY:O	8:p:1425:ALA:C	2.61	0.44
1:A:62:VAL:O	1:A:397:GLU:HG3	2.17	0.44
3:C:463:ASP:O	3:C:467:LEU:HB2	2.18	0.44
4:D:181:ILE:HD11	4:D:375:VAL:HG23	1.98	0.44
5:E:276:PHE:HB3	5:E:327:PHE:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:456:GLU:HA	5:E:456:GLU:OE2	2.17	0.44
6:F:36:ASN:HB3	6:F:57:LYS:HZ3	0.68	0.44
6:F:89:ASP:OD1	9:F:601:ADP:O1B	2.35	0.44
6:F:114:HIS:CD2	5:M:37:ASN:HD22	2.35	0.44
6:F:212:GLY:O	6:F:213:LEU:C	2.60	0.44
6:F:330:LEU:HB3	6:F:375:SER:OG	2.17	0.44
7:G:226:TYR:CE1	7:G:229:PHE:CB	3.00	0.44
7:G:241:ILE:HD12	7:G:330:VAL:CG2	2.48	0.44
7:G:244:LEU:HB3	7:G:246:VAL:HG22	1.99	0.44
8:H:6:PRO:CB	8:H:7:GLN:CA	2.93	0.44
8:H:186:VAL:C	8:H:188:HIS:H	2.26	0.44
8:H:226:MET:HE1	8:H:328:GLU:CG	2.47	0.44
8:H:416:GLY:C	8:H:418:LYS:H	2.25	0.44
8:H:424:GLY:O	8:H:428:ILE:HG13	2.18	0.44
1:I:183:ALA:CB	1:I:383:SER:HB2	2.47	0.44
2:J:74:ALA:O	2:J:78:VAL:HG23	2.17	0.44
2:J:243:VAL:HG12	2:J:245:ILE:N	2.29	0.44
4:L:134:ILE:HB	4:L:421:ILE:CD1	2.48	0.44
4:L:219:ALA:HB1	4:L:221:LYS:HZ2	1.83	0.44
4:L:238:GLN:HE22	4:L:318:ARG:NH1	2.15	0.44
4:L:370:ASN:O	4:L:373:PRO:HD3	2.18	0.44
5:M:340:LEU:HA	5:M:341:PRO:HD3	1.83	0.44
5:M:373:LYS:HE2	6:N:311:LYS:NZ	2.31	0.44
6:N:141:THR:CB	6:N:409:LYS:HG3	2.45	0.44
6:N:503:ILE:O	6:N:503:ILE:HG22	2.18	0.44
7:O:170:LEU:O	7:O:170:LEU:CD2	2.58	0.44
7:O:186:VAL:HG21	7:O:400:VAL:HG22	1.98	0.44
8:P:113:VAL:CG1	8:P:451:GLN:HG3	2.37	0.44
8:P:155:ASP:HB3	8:P:156:LYS:H	1.48	0.44
8:P:256:ILE:HD13	8:P:280:GLU:OE1	2.17	0.44
8:P:329:LEU:HD23	8:P:329:LEU:O	2.17	0.44
1:a:1055:ASP:O	1:a:1057:ILE:N	2.50	0.44
2:b:1036:THR:HG22	2:b:1042:MET:O	2.18	0.44
2:b:1263:LYS:NZ	3:c:1266:GLU:CG	2.81	0.44
3:c:1521:LEU:C	3:c:1523:VAL:H	2.26	0.44
5:e:1150:PHE:CD1	5:e:1472:PHE:HE2	2.36	0.44
6:f:1221:HIS:CD2	6:f:1224:MET:SD	3.09	0.44
6:f:1436:ALA:HA	6:f:1437:LYS:HA	1.66	0.44
7:g:1204:ILE:HA	7:g:1205:PRO:HD3	1.79	0.44
7:g:1346:LEU:HD23	7:g:1346:LEU:N	2.33	0.44
8:h:1106:LEU:O	8:h:1107:ALA:C	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:h:1250:PHE:N	8:h:1250:PHE:CD2	2.86	0.44
8:h:1256:ILE:HD13	8:h:1280:GLU:OE1	2.17	0.44
8:h:1393:ASN:O	8:h:1397:ILE:HG13	2.18	0.44
1:i:1086:LEU:HD21	1:i:1101:VAL:HG12	1.99	0.44
1:i:1545:ILE:HG21	5:m:1094:MET:HA	2.00	0.44
2:j:1036:THR:HG22	2:j:1042:MET:O	2.18	0.44
2:j:1422:ILE:O	2:j:1423:ASP:C	2.61	0.44
3:k:1467:LEU:HD21	3:k:1491:ILE:CG2	2.46	0.44
9:k:2101:ADP:O1B	9:k:2101:ADP:O2A	2.36	0.44
4:l:1370:ASN:O	4:l:1373:PRO:HD3	2.18	0.44
6:n:1122:PHE:CD1	6:n:1447:PHE:HD1	2.35	0.44
7:o:1235:LYS:CB	7:o:1352:PHE:C	2.91	0.44
8:p:1175:GLU:H	8:p:1175:GLU:HG3	1.45	0.44
1:A:17:GLY:HA2	1:A:546:THR:O	2.18	0.44
1:A:112:ALA:HB1	1:A:539:LEU:HD21	1.98	0.44
2:B:36:THR:HG22	2:B:42:MET:O	2.18	0.44
2:B:186:GLY:HA2	2:B:187:SER:HA	1.47	0.44
2:B:389:SER:O	2:B:393:GLN:HG3	2.17	0.44
4:D:7:SER:HA	7:G:35:ALA:HB1	2.00	0.44
4:D:273:ASN:ND2	7:G:268:GLN:HE22	2.15	0.44
4:D:401:ILE:C	4:D:401:ILE:HD12	2.43	0.44
5:E:429:VAL:O	5:E:432:ASN:HB2	2.18	0.44
6:F:166:LEU:CD2	6:F:205:LYS:HA	2.47	0.44
8:H:113:VAL:CG1	8:H:451:GLN:HG3	2.37	0.44
8:H:482:HIS:O	8:H:483:ASN:C	2.58	0.44
1:I:16:GLY:CA	1:I:548:ASP:HB3	2.44	0.44
1:I:17:GLY:HA2	1:I:546:THR:O	2.18	0.44
1:I:90:GLN:HE21	1:I:527:SER:HB3	1.83	0.44
1:I:120:ILE:CG2	1:I:121:HIS:N	2.81	0.44
1:I:532:LEU:O	1:I:536:VAL:HG23	2.16	0.44
1:I:538:ILE:HA	1:I:541:ILE:HD12	2.00	0.44
2:J:250:PHE:CB	6:N:250:GLY:O	2.65	0.44
3:K:219:VAL:HG13	3:K:379:ILE:HD12	1.99	0.44
6:N:146:ASP:O	6:N:147:ARG:C	2.59	0.44
6:N:209:PHE:CE2	6:N:376:CYS:SG	2.97	0.44
7:O:454:CYS:HB2	7:O:461:ALA:HB1	1.98	0.44
8:P:106:LEU:O	8:P:107:ALA:C	2.61	0.44
1:a:1120:ILE:HG21	1:a:1125:ILE:CG1	2.48	0.44
2:b:1074:ALA:O	2:b:1078:VAL:HG23	2.17	0.44
2:b:1293:TYR:O	2:b:1297:LEU:HD23	2.17	0.44
3:c:1050:ASP:OD1	3:c:1054:GLY:HA3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:1084:THR:O	3:c:1085:GLN:C	2.60	0.44
3:c:1310:LEU:HD21	3:c:1316:VAL:HG22	1.99	0.44
4:d:1098:ILE:HG12	4:d:1098:ILE:H	1.57	0.44
4:d:1185:ASN:H	4:d:1187:LYS:N	2.14	0.44
5:e:1083:ILE:HG13	5:e:1414:MET:HE2	1.99	0.44
5:e:1132:GLN:HA	5:e:1132:GLN:NE2	2.32	0.44
5:e:1189:GLY:O	5:e:1190:SER:HB2	2.17	0.44
5:e:1255:PRO:HG3	5:e:1336:LEU:CB	2.47	0.44
5:e:1416:VAL:C	5:e:1418:GLU:H	2.25	0.44
5:e:1456:GLU:HA	5:e:1456:GLU:OE2	2.18	0.44
5:e:1483:LEU:HD21	9:e:1601:ADP:N3	2.33	0.44
5:e:1544:LEU:HD23	6:f:1384:THR:CG2	2.47	0.44
6:f:1083:GLN:OE1	6:f:1515:ASN:ND2	2.51	0.44
6:f:1171:THR:CB	6:f:1172:PRO:HD3	2.48	0.44
6:f:1212:GLY:O	6:f:1213:LEU:C	2.60	0.44
7:g:1303:ALA:O	7:g:1307:PHE:CD2	2.70	0.44
8:h:1101:ASN:HD22	8:h:1101:ASN:N	2.16	0.44
1:i:1017:GLY:HA2	1:i:1546:THR:O	2.18	0.44
3:k:1463:ASP:O	3:k:1467:LEU:HB2	2.18	0.44
4:l:1181:ILE:HD11	4:l:1375:VAL:HG23	1.98	0.44
4:l:1242:SER:HB3	4:l:1298:ASN:HB2	2.00	0.44
4:l:1292:ILE:HG13	4:l:1293:LEU:C	2.42	0.44
4:l:1418:GLU:HG2	4:l:1451:PRO:HD3	1.99	0.44
5:m:1245:LEU:HD22	5:m:1245:LEU:HA	1.80	0.44
5:m:1556:ILE:HG23	6:n:1047:VAL:C	2.43	0.44
6:n:1166:LEU:CD2	6:n:1205:LYS:HA	2.47	0.44
6:n:1190:ASP:O	6:n:1193:MET:HG2	2.18	0.44
6:n:1209:PHE:HZ	6:n:1211:LYS:HD2	1.83	0.44
6:n:1420:ILE:HG22	6:n:1482:ASP:CG	2.41	0.44
8:p:1096:MET:CB	8:p:1515:GLU:OE1	2.65	0.44
1:A:90:GLN:CD	1:A:101:VAL:HG21	2.42	0.44
1:A:120:ILE:HG21	1:A:125:ILE:HG12	2.00	0.44
2:B:482:MET:SD	2:B:487:ILE:HB	2.58	0.44
3:C:114:LYS:CA	3:C:115:ASN:CB	2.94	0.44
3:C:436:GLY:C	3:C:438:GLN:H	2.24	0.44
3:C:521:LEU:C	3:C:523:VAL:H	2.26	0.44
6:F:79:ALA:HB1	6:F:523:ILE:HD11	1.98	0.44
1:I:120:ILE:HG21	1:I:125:ILE:CG1	2.48	0.44
1:I:419:VAL:HA	1:I:420:PRO:HD3	1.86	0.44
2:J:8:ASP:OD1	2:J:8:ASP:N	2.51	0.44
2:J:231:ILE:H	2:J:231:ILE:HG12	1.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:292:ILE:HG13	4:L:293:LEU:C	2.42	0.44
4:L:401:ILE:C	4:L:401:ILE:HD12	2.43	0.44
5:M:351:LEU:HD22	5:M:352:GLU:H	1.83	0.44
6:N:83:GLN:OE1	6:N:515:ASN:ND2	2.51	0.44
6:N:195:GLU:HG2	6:N:197:MET:CE	2.48	0.44
8:P:15:LYS:HG3	8:P:16:GLN:H	1.83	0.44
8:P:186:VAL:C	8:P:188:HIS:H	2.26	0.44
1:a:1090:GLN:CD	1:a:1101:VAL:HG21	2.42	0.44
1:a:1458:ILE:HD12	1:a:1458:ILE:H	1.81	0.44
1:a:1532:LEU:HD22	1:a:1536:VAL:CG2	2.48	0.44
1:a:1532:LEU:O	1:a:1536:VAL:HG23	2.16	0.44
2:b:1169:ASP:HB2	2:b:1172:HIS:HB2	2.00	0.44
2:b:1326:VAL:HG13	3:c:1304:LEU:HD22	2.00	0.44
3:c:1219:VAL:O	3:c:1219:VAL:HG12	2.18	0.44
3:c:1219:VAL:HG13	3:c:1379:ILE:HD12	1.99	0.44
3:c:1436:GLY:C	3:c:1438:GLN:H	2.24	0.44
3:c:1463:ASP:O	3:c:1467:LEU:HB2	2.18	0.44
4:d:1184:GLU:HA	4:d:1187:LYS:HG2	2.00	0.44
6:f:1195:GLU:OE1	6:f:1197:MET:CE	2.65	0.44
7:g:1492:PHE:CB	7:g:1497:TRP:HZ2	2.31	0.44
8:h:1186:VAL:C	8:h:1188:HIS:H	2.26	0.44
8:h:1291:ILE:HD12	8:h:1347:PRO:HG2	1.96	0.44
8:h:1386:LEU:H	8:h:1386:LEU:HD12	1.81	0.44
1:i:1066:GLY:CA	1:i:1099:THR:HG22	2.47	0.44
1:i:1121:HIS:HA	1:i:1122:PRO:HD2	1.81	0.44
1:i:1129:PHE:CB	1:i:1532:LEU:HD21	2.48	0.44
2:j:1032:LEU:HD11	6:n:1532:GLU:CD	2.43	0.44
2:j:1210:GLU:CB	2:j:1357:SER:O	2.64	0.44
2:j:1278:LYS:C	2:j:1280:GLY:H	2.25	0.44
2:j:1401:VAL:HG22	2:j:1402:LEU:N	2.33	0.44
4:l:1135:LEU:HD22	4:l:1135:LEU:HA	1.87	0.44
5:m:1280:LYS:HA	5:m:1281:PRO:HD3	1.80	0.44
6:n:1143:LEU:HD21	6:n:1145:ASN:HB3	1.97	0.44
6:n:1506:ILE:HD13	9:n:1601:ADP:C2	2.52	0.44
1:A:350:PHE:HE2	1:A:354:TYR:CB	2.16	0.44
1:A:458:ILE:HD12	1:A:458:ILE:H	1.82	0.44
2:B:141:ASP:CG	2:B:142:ASN:N	2.75	0.44
3:C:28:ALA:HB2	3:C:74:ALA:O	2.18	0.44
4:D:44:MET:HE3	8:H:531:ALA:HB2	1.99	0.44
4:D:134:ILE:HB	4:D:421:ILE:CD1	2.48	0.44
4:D:234:ILE:HB	4:D:345:ASP:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:447:LEU:C	4:D:449:VAL:H	2.26	0.44
5:E:416:VAL:C	5:E:418:GLU:H	2.25	0.44
5:E:492:ILE:CD1	2:J:115:ILE:HG12	2.45	0.44
6:F:174:VAL:O	6:F:178:VAL:HG23	2.18	0.44
7:G:123:HIS:ND1	7:G:123:HIS:N	2.65	0.44
7:G:235:LYS:CB	7:G:352:PHE:C	2.91	0.44
8:H:106:LEU:O	8:H:107:ALA:C	2.61	0.44
8:H:243:LYS:HD3	8:H:243:LYS:HA	1.87	0.44
8:H:393:ASN:O	8:H:397:ILE:HG13	2.18	0.44
1:I:256:MET:HE3	1:I:260:VAL:O	2.17	0.44
2:J:37:LEU:CB	2:J:444:LEU:HD13	2.47	0.44
2:J:92:THR:HA	2:J:95:VAL:HG23	2.00	0.44
2:J:482:MET:SD	2:J:487:ILE:HB	2.57	0.44
5:M:255:PRO:HG3	5:M:336:LEU:CB	2.47	0.44
6:N:124:ILE:HB	6:N:444:ILE:CD1	2.48	0.44
6:N:370:ASN:N	6:N:370:ASN:HD22	2.14	0.44
6:N:422:LEU:O	6:N:426:LEU:HB2	2.17	0.44
7:O:162:ALA:CB	7:O:179:VAL:HG13	2.47	0.44
7:O:282:LEU:HD23	7:O:303:ALA:O	2.17	0.44
2:b:1092:THR:HA	2:b:1095:VAL:HG23	2.00	0.44
2:b:1100:ALA:O	2:b:1104:ARG:HG3	2.18	0.44
2:b:1226:ILE:HG13	2:b:1282:ASN:OD1	2.18	0.44
3:c:1306:GLN:O	3:c:1307:HIS:C	2.59	0.44
3:c:1441:PRO:O	3:c:1444:ALA:HB3	2.18	0.44
3:c:1450:GLU:C	3:c:1453:PRO:HD2	2.43	0.44
3:c:1483:GLY:O	3:c:1491:ILE:HB	2.18	0.44
4:d:1161:LYS:HA	4:d:1161:LYS:HD2	1.66	0.44
4:d:1242:SER:HB3	4:d:1298:ASN:HB2	2.00	0.44
4:d:1401:ILE:C	4:d:1401:ILE:HD12	2.43	0.44
5:e:1245:LEU:CD1	5:e:1247:LYS:H	2.25	0.44
5:e:1276:PHE:HB3	5:e:1327:PHE:HA	2.00	0.44
5:e:1439:VAL:HB	5:e:1528:VAL:HG13	1.99	0.44
6:f:1101:LEU:O	6:f:1101:LEU:HD23	2.17	0.44
6:f:1178:VAL:HG21	6:f:1402:VAL:CG1	2.47	0.44
6:f:1195:GLU:HG2	6:f:1197:MET:CE	2.48	0.44
7:g:1126:MET:HA	7:g:1126:MET:CE	2.40	0.44
7:g:1178:PHE:CZ	7:g:1389:VAL:HG13	2.53	0.44
7:g:1226:TYR:CE1	7:g:1229:PHE:CB	3.00	0.44
7:g:1244:LEU:HB3	7:g:1246:VAL:HG22	1.99	0.44
8:h:1338:ALA:N	8:h:1353:GLY:HA3	2.33	0.44
1:i:1538:ILE:HA	1:i:1541:ILE:HD12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1092:THR:HA	2:j:1095:VAL:HG23	2.00	0.44
2:j:1314:VAL:HG11	3:k:1232:PRO:HD3	2.00	0.44
2:j:1366:THR:O	2:j:1366:THR:OG1	2.30	0.44
3:k:1047:MET:HE3	3:k:1049:LEU:HD21	1.99	0.44
4:l:1041:PRO:CG	9:l:1601:ADP:C4	3.00	0.44
4:l:1192:ASN:HB2	7:o:1361:ARG:HH21	1.83	0.44
4:l:1401:ILE:C	4:l:1401:ILE:HD12	2.43	0.44
4:l:1499:GLN:HA	4:l:1500:PRO:HD3	1.86	0.44
5:m:1150:PHE:CD1	5:m:1472:PHE:HE2	2.35	0.44
5:m:1271:ILE:CB	5:m:1362:ILE:HA	2.48	0.44
5:m:1340:LEU:HA	5:m:1341:PRO:HD3	1.83	0.44
6:n:1204:PRO:C	6:n:1207:THR:HG23	2.42	0.44
6:n:1207:THR:HB	6:n:1380:ILE:HA	1.99	0.44
6:n:1214:VAL:HG22	6:n:1377:THR:OG1	2.18	0.44
6:n:1422:LEU:O	6:n:1426:LEU:HB2	2.17	0.44
6:n:1539:SER:O	6:n:1540:THR:C	2.58	0.44
7:o:1062:ILE:O	7:o:1062:ILE:HG23	2.17	0.44
7:o:1334:ILE:H	7:o:1334:ILE:HG12	1.65	0.44
1:A:129:PHE:CB	1:A:532:LEU:HD21	2.48	0.44
1:A:143:VAL:HG11	1:A:425:VAL:HG22	1.99	0.44
1:A:185:LEU:HD23	1:A:185:LEU:HA	1.85	0.44
1:A:267:PRO:CA	1:A:268:GLU:CB	2.95	0.44
2:B:231:ILE:HG22	2:B:232:LEU:H	1.83	0.44
2:B:234:ALA:HA	2:B:325:VAL:HB	1.99	0.44
2:B:237:THR:N	2:B:287:ARG:HD2	2.28	0.44
2:B:409:MET:HA	2:B:409:MET:CE	2.38	0.44
2:B:459:LEU:HD13	2:B:472:LEU:HD23	2.00	0.44
4:D:485:ARG:H	4:D:485:ARG:CD	2.27	0.44
5:E:107:LEU:CD2	5:E:544:LEU:HG	2.35	0.44
6:F:167:THR:CA	6:F:168:GLU:CB	2.95	0.44
6:F:178:VAL:HG21	6:F:402:VAL:CG1	2.47	0.44
6:F:190:ASP:O	6:F:193:MET:HG2	2.18	0.44
6:F:238:VAL:HG22	6:F:239:SER:H	1.83	0.44
6:F:451:LEU:O	6:F:455:PRO:CG	2.66	0.44
6:F:539:SER:O	6:F:540:THR:C	2.58	0.44
7:G:400:VAL:O	7:G:404:LEU:HB2	2.17	0.44
1:I:16:GLY:HA3	1:I:548:ASP:CB	2.45	0.44
1:I:267:PRO:CA	1:I:268:GLU:CB	2.95	0.44
2:J:100:ALA:O	2:J:104:ARG:HG3	2.18	0.44
2:J:389:SER:O	2:J:393:GLN:HG3	2.17	0.44
2:J:401:VAL:HG22	2:J:402:LEU:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:50:ASP:OD1	3:K:54:GLY:HA3	2.18	0.44
3:K:350:THR:O	3:K:350:THR:HG22	2.18	0.44
3:K:483:GLY:O	3:K:491:ILE:HB	2.18	0.44
4:L:379:ILE:HD12	4:L:379:ILE:N	2.33	0.44
5:M:83:ILE:HG13	5:M:414:MET:HE2	1.99	0.44
5:M:150:PHE:CD1	5:M:472:PHE:HE2	2.35	0.44
6:N:70:SER:O	6:N:71:PRO:C	2.61	0.44
6:N:143:LEU:CD1	6:N:145:ASN:CB	2.96	0.44
6:N:204:PRO:C	6:N:207:THR:HG23	2.42	0.44
6:N:280:LEU:CD1	6:N:343:LEU:HD11	2.48	0.44
7:O:382:ALA:O	7:O:386:ILE:HG13	2.18	0.44
7:O:454:CYS:CB	7:O:461:ALA:HA	2.48	0.44
1:a:1210:GLY:O	1:a:1211:LYS:CB	2.64	0.44
2:b:1324:GLU:H	3:c:1311:LYS:NZ	2.15	0.44
3:c:1456:LEU:HD22	3:c:1456:LEU:HA	1.79	0.44
3:c:1495:VAL:HG23	3:c:1500:TRP:CH2	2.48	0.44
4:d:1024:ASN:ND2	4:d:1524:ILE:HD11	2.29	0.44
4:d:1077:MET:O	4:d:1081:VAL:HG23	2.18	0.44
4:d:1159:SER:C	4:d:1161:LYS:N	2.76	0.44
6:f:1216:ASP:C	6:f:1217:HIS:CG	2.96	0.44
6:f:1324:ASN:HA	6:f:1327:ARG:HB2	2.00	0.44
7:g:1412:GLY:C	7:g:1491:ASN:ND2	2.76	0.44
8:h:1113:VAL:CG1	8:h:1451:GLN:HG3	2.37	0.44
1:i:1073:LEU:O	1:i:1074:ASP:OD1	2.36	0.44
1:i:1145:SER:C	1:i:1147:SER:H	2.25	0.44
1:i:1183:ALA:CB	1:i:1383:SER:HB2	2.47	0.44
2:j:1459:LEU:HD13	2:j:1472:LEU:HD23	2.00	0.44
3:k:1483:GLY:O	3:k:1491:ILE:HB	2.18	0.44
4:l:1292:ILE:CG1	4:l:1293:LEU:HA	2.47	0.44
5:m:1132:GLN:HA	5:m:1132:GLN:NE2	2.33	0.44
6:n:1124:ILE:HB	6:n:1444:ILE:CD1	2.48	0.44
7:o:1178:PHE:CZ	7:o:1389:VAL:HG13	2.53	0.44
7:o:1244:LEU:HB3	7:o:1246:VAL:HG22	1.99	0.44
8:p:1464:ALA:HB2	8:p:1474:VAL:HG11	2.00	0.44
2:B:100:ALA:O	2:B:104:ARG:HG3	2.18	0.43
2:B:329:PHE:CD2	2:B:329:PHE:O	2.53	0.43
3:C:467:LEU:HD21	3:C:491:ILE:CG2	2.46	0.43
3:C:523:VAL:HG22	8:H:54:ILE:CD1	2.48	0.43
4:D:125:GLN:HB2	7:G:173:ASN:ND2	2.32	0.43
4:D:392:ARG:HD3	4:D:392:ARG:C	2.42	0.43
5:E:142:HIS:CD2	5:E:144:ILE:HB	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:352:GLU:CD	5:E:353:HIS:H	2.26	0.43
6:F:105:ALA:HA	6:F:108:PHE:CE2	2.54	0.43
6:F:195:GLU:OE1	6:F:197:MET:CE	2.65	0.43
6:F:422:LEU:O	6:F:426:LEU:HB2	2.17	0.43
7:G:62:ILE:O	7:G:62:ILE:HG23	2.17	0.43
7:G:303:ALA:O	7:G:307:PHE:CD2	2.70	0.43
7:G:454:CYS:HB2	7:G:461:ALA:HB1	1.98	0.43
8:H:71:MET:O	8:H:75:LEU:HG	2.17	0.43
8:H:424:GLY:O	8:H:425:ALA:C	2.61	0.43
1:I:120:ILE:HG21	1:I:125:ILE:HG12	2.00	0.43
1:I:143:VAL:HG11	1:I:425:VAL:HG22	1.99	0.43
2:J:93:THR:OG1	9:J:601:ADP:O3A	2.33	0.43
3:K:28:ALA:HB2	3:K:74:ALA:O	2.18	0.43
3:K:174:LEU:HG	3:K:219:VAL:CG2	2.47	0.43
5:M:132:GLN:HA	5:M:132:GLN:NE2	2.32	0.43
7:O:62:ILE:O	7:O:62:ILE:HG23	2.17	0.43
8:P:6:PRO:CB	8:P:7:GLN:HG3	2.38	0.43
8:P:291:ILE:HD12	8:P:347:PRO:HG2	1.96	0.43
1:a:1129:PHE:CB	1:a:1532:LEU:HD21	2.48	0.43
1:a:1183:ALA:CB	1:a:1383:SER:HB2	2.47	0.43
1:a:1350:PHE:O	1:a:1351:GLU:OE2	2.36	0.43
2:b:1282:ASN:CG	2:b:1303:ILE:HB	2.43	0.43
2:b:1459:LEU:HD13	2:b:1472:LEU:HD23	2.00	0.43
3:c:1129:LEU:HD21	3:c:1511:LYS:HA	2.00	0.43
5:e:1084:THR:O	5:e:1090:ILE:HD11	2.18	0.43
6:f:1152:GLN:HG2	6:f:1153:VAL:N	2.32	0.43
6:f:1190:ASP:O	6:f:1193:MET:HG2	2.18	0.43
6:f:1214:VAL:HG22	6:f:1377:THR:OG1	2.18	0.43
6:f:1280:LEU:CD1	6:f:1343:LEU:HD11	2.48	0.43
6:f:1370:ASN:HD22	6:f:1370:ASN:N	2.14	0.43
6:f:1422:LEU:O	6:f:1426:LEU:HB2	2.17	0.43
8:h:1247:VAL:HG22	8:h:1248:ALA:N	2.32	0.43
8:h:1329:LEU:HD23	8:h:1329:LEU:O	2.17	0.43
1:i:1090:GLN:CD	1:i:1101:VAL:HG21	2.42	0.43
2:j:1060:GLY:H	2:j:1093:THR:HG22	1.83	0.43
2:j:1282:ASN:CG	2:j:1303:ILE:HB	2.43	0.43
2:j:1482:MET:SD	2:j:1487:ILE:HB	2.57	0.43
3:k:1350:THR:HG22	3:k:1350:THR:O	2.18	0.43
4:l:1077:MET:O	4:l:1081:VAL:HG23	2.18	0.43
5:m:1073:ILE:HG12	5:m:1083:ILE:CG1	2.44	0.43
5:m:1118:GLY:HA2	9:m:1601:ADP:O2A	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:m:1189:GLY:O	5:m:1190:SER:HB2	2.17	0.43
5:m:1255:PRO:HG3	5:m:1336:LEU:CB	2.47	0.43
5:m:1412:ASN:C	5:m:1414:MET:H	2.24	0.43
6:n:1083:GLN:HB2	6:n:1091:THR:HG22	2.00	0.43
6:n:1160:THR:N	6:n:1164:ALA:HB3	2.31	0.43
6:n:1167:THR:CB	6:n:1169:VAL:N	2.64	0.43
6:n:1195:GLU:HG2	6:n:1197:MET:CE	2.48	0.43
6:n:1221:HIS:HB2	6:n:1224:MET:CG	2.43	0.43
6:n:1238:VAL:HG22	6:n:1239:SER:H	1.83	0.43
6:n:1238:VAL:HG22	6:n:1239:SER:N	2.32	0.43
8:p:1035:ILE:HD13	8:p:1082:VAL:HG22	2.00	0.43
1:A:12:THR:CG2	5:E:97:ASP:H	2.24	0.43
2:B:88:VAL:HG12	2:B:89:GLY:N	2.32	0.43
2:B:282:ASN:CG	2:B:303:ILE:HB	2.43	0.43
2:B:370:ARG:O	2:B:372:ALA:N	2.50	0.43
3:C:51:PRO:O	3:C:52:MET:CG	2.63	0.43
3:C:219:VAL:O	3:C:219:VAL:HG12	2.18	0.43
3:C:224:LEU:C	3:C:225:LEU:HD23	2.43	0.43
3:C:441:PRO:O	3:C:444:ALA:HB3	2.18	0.43
3:C:450:GLU:C	3:C:453:PRO:HD2	2.43	0.43
4:D:523:ASP:C	7:G:51:ILE:HG23	2.39	0.43
5:E:170:ALA:N	5:E:523:LYS:HZ1	2.17	0.43
5:E:396:GLU:HA	5:E:397:GLN:HA	1.53	0.43
6:F:538:ARG:CG	6:F:538:ARG:NH1	2.72	0.43
7:G:30:ILE:O	7:G:33:CYS:HB3	2.19	0.43
7:G:346:LEU:HD23	7:G:346:LEU:N	2.33	0.43
8:H:15:LYS:HG3	8:H:16:GLN:H	1.83	0.43
1:I:25:ILE:HG22	1:I:26:ARG:N	2.32	0.43
2:J:15:ALA:O	2:J:16:GLU:C	2.60	0.43
3:K:48:LEU:HD21	3:K:64:ILE:HD13	1.99	0.43
3:K:84:THR:O	3:K:85:GLN:C	2.60	0.43
3:K:114:LYS:CA	3:K:115:ASN:CB	2.94	0.43
3:K:467:LEU:HD21	3:K:491:ILE:CG2	2.46	0.43
4:L:94:THR:HG23	9:L:601:ADP:O3B	2.18	0.43
4:L:236:LEU:O	4:L:332:PRO:HA	2.18	0.43
5:M:276:PHE:HB3	5:M:327:PHE:HA	2.00	0.43
9:M:601:ADP:C8	9:M:601:ADP:C4'	3.01	0.43
6:N:190:ASP:O	6:N:193:MET:HG2	2.18	0.43
6:N:234:LEU:HD12	6:N:280:LEU:HD11	2.00	0.43
7:O:492:PHE:CB	7:O:497:TRP:HZ2	2.31	0.43
1:a:1045:GLY:N	9:a:1601:ADP:H5'1	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1442:THR:HG23	2:b:1452:SER:CB	2.34	0.43
4:d:1103:LEU:HD22	4:d:1515:VAL:HG21	1.99	0.43
4:d:1134:ILE:HB	4:d:1421:ILE:CD1	2.48	0.43
5:e:1142:HIS:CD2	5:e:1144:ILE:HB	2.53	0.43
6:f:1011:GLU:OE2	6:f:1011:GLU:N	2.52	0.43
6:f:1105:ALA:HA	6:f:1108:PHE:CE2	2.54	0.43
6:f:1143:LEU:CD1	6:f:1145:ASN:CB	2.96	0.43
6:f:1185:GLN:HB3	6:f:1407:LYS:HD3	2.00	0.43
6:f:1451:LEU:O	6:f:1455:PRO:CG	2.66	0.43
7:g:1166:MET:O	7:g:1171:ILE:HB	2.18	0.43
7:g:1409:ILE:CG2	7:g:1410:VAL:N	2.82	0.43
7:g:1454:CYS:CB	7:g:1461:ALA:HA	2.48	0.43
1:i:1062:VAL:O	1:i:1397:GLU:HG3	2.17	0.43
1:i:1544:MET:HG3	5:m:1073:ILE:CG2	2.48	0.43
1:i:1555:ASP:HA	1:i:1556:PRO:HD3	1.90	0.43
3:k:1112:ILE:C	3:k:1114:LYS:N	2.74	0.43
3:k:1209:ILE:HG23	3:k:1382:ARG:HA	1.99	0.43
4:l:1184:GLU:HA	4:l:1187:LYS:HG2	2.00	0.43
5:m:1073:ILE:O	5:m:1074:LEU:HD22	2.18	0.43
5:m:1142:HIS:CD2	5:m:1144:ILE:HB	2.53	0.43
5:m:1431:ARG:HA	5:m:1434:VAL:HG12	2.00	0.43
6:n:1171:THR:CB	6:n:1172:PRO:HD3	2.48	0.43
6:n:1426:LEU:C	6:n:1426:LEU:HD13	2.44	0.43
6:n:1433:LYS:HG3	6:n:1444:ILE:CG2	2.46	0.43
7:o:1030:ILE:O	7:o:1033:CYS:HB3	2.19	0.43
7:o:1126:MET:HA	7:o:1126:MET:CE	2.40	0.43
1:A:532:LEU:HD22	1:A:536:VAL:CG2	2.48	0.43
9:B:601:ADP:O1A	9:B:601:ADP:O3'	2.29	0.43
3:C:10:ALA:HA	3:C:11:SER:HA	1.59	0.43
3:C:48:LEU:HD21	3:C:64:ILE:HD13	1.99	0.43
3:C:457:ILE:HD13	3:C:467:LEU:CD1	2.19	0.43
3:C:508:GLN:CG	8:H:215:GLY:HA2	2.46	0.43
4:D:146:ASP:HB2	4:D:149:GLN:HB2	2.00	0.43
4:D:184:GLU:HA	4:D:187:LYS:HG2	2.00	0.43
6:F:147:ARG:HH22	6:F:409:LYS:HA	1.84	0.43
6:F:280:LEU:CD1	6:F:343:LEU:HD11	2.48	0.43
7:G:412:GLY:C	7:G:491:ASN:ND2	2.76	0.43
7:G:448:VAL:HA	7:G:451:ARG:HB2	2.00	0.43
1:I:494:ARG:CB	1:I:496:SER:H	2.21	0.43
2:J:29:VAL:C	2:J:33:VAL:CG2	2.88	0.43
2:J:36:THR:HG22	2:J:42:MET:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:146:LYS:HD3	2:J:146:LYS:N	2.33	0.43
2:J:282:ASN:CG	2:J:303:ILE:HB	2.43	0.43
3:K:209:ILE:HG23	3:K:382:ARG:HA	1.99	0.43
3:K:463:ASP:O	3:K:467:LEU:HB2	2.18	0.43
4:L:517:SER:O	4:L:521:ILE:HG13	2.19	0.43
6:N:11:GLU:N	6:N:11:GLU:OE2	2.52	0.43
6:N:83:GLN:HB2	6:N:91:THR:HG22	2.00	0.43
6:N:105:ALA:HA	6:N:108:PHE:CE2	2.54	0.43
6:N:362:GLU:CG	6:N:364:PHE:CE2	2.93	0.43
7:O:73:LEU:C	7:O:73:LEU:HD13	2.44	0.43
7:O:165:ALA:CB	7:O:399:ILE:HG21	2.46	0.43
7:O:409:ILE:CG2	7:O:410:VAL:H	2.28	0.43
8:P:250:PHE:N	8:P:250:PHE:CD2	2.86	0.43
8:P:338:ALA:N	8:P:353:GLY:HA3	2.33	0.43
8:P:393:ASN:O	8:P:397:ILE:HG13	2.18	0.43
1:a:1187:VAL:O	1:a:1381:SER:CA	2.67	0.43
2:b:1037:LEU:CB	2:b:1444:LEU:HD13	2.47	0.43
2:b:1146:LYS:HD3	2:b:1146:LYS:N	2.34	0.43
2:b:1401:VAL:HG22	2:b:1402:LEU:N	2.33	0.43
3:c:1524:ASP:HB2	8:h:1051:ARG:CB	2.49	0.43
5:e:1170:ALA:N	5:e:1523:LYS:HZ1	2.17	0.43
5:e:1456:GLU:C	5:e:1458:ALA:H	2.26	0.43
6:f:1173:ILE:HD11	6:f:1209:PHE:N	2.32	0.43
6:f:1174:VAL:O	6:f:1178:VAL:HG23	2.18	0.43
6:f:1238:VAL:HG22	6:f:1239:SER:H	1.83	0.43
7:g:1062:ILE:O	7:g:1062:ILE:HG23	2.17	0.43
8:h:1339:THR:HA	8:h:1340:PRO:HD3	1.86	0.43
8:h:1482:HIS:O	8:h:1483:ASN:C	2.58	0.43
1:i:1115:LEU:HD23	1:i:1115:LEU:HA	1.80	0.43
1:i:1177:SER:O	1:i:1181:VAL:HG23	2.19	0.43
1:i:1418:VAL:CG1	1:i:1419:VAL:H	2.30	0.43
1:i:1460:LYS:O	1:i:1464:VAL:HG23	2.18	0.43
1:i:1550:GLU:HA	1:i:1551:PRO:HD3	1.88	0.43
2:j:1226:ILE:HG13	2:j:1282:ASN:OD1	2.18	0.43
3:k:1456:LEU:HD21	9:k:2101:ADP:C4'	2.48	0.43
4:l:1238:GLN:HE22	4:l:1318:ARG:NH1	2.15	0.43
5:m:1276:PHE:HB3	5:m:1327:PHE:HA	2.00	0.43
6:n:1147:ARG:HH22	6:n:1409:LYS:HA	1.84	0.43
6:n:1167:THR:CA	6:n:1168:GLU:CB	2.95	0.43
6:n:1174:VAL:O	6:n:1178:VAL:HG23	2.18	0.43
6:n:1216:ASP:C	6:n:1217:HIS:CG	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:n:1362:GLU:CG	6:n:1364:PHE:CE2	2.93	0.43
7:o:1066:GLY:C	7:o:1068:THR:H	2.26	0.43
7:o:1382:ALA:O	7:o:1386:ILE:HG13	2.18	0.43
8:p:1338:ALA:N	8:p:1353:GLY:HA3	2.33	0.43
1:A:118:ASN:O	1:A:119:LYS:CG	2.65	0.43
1:A:538:ILE:HA	1:A:541:ILE:HD12	2.00	0.43
2:B:5:ILE:O	3:C:70:VAL:HA	2.18	0.43
2:B:146:LYS:HD3	2:B:146:LYS:N	2.33	0.43
3:C:129:LEU:HD21	3:C:511:LYS:HA	2.00	0.43
4:D:242:SER:HB3	4:D:298:ASN:HB2	2.00	0.43
4:D:518:ILE:HA	4:D:521:ILE:HD12	2.01	0.43
6:F:171:THR:CB	6:F:172:PRO:HD3	2.48	0.43
6:F:209:PHE:HZ	6:F:211:LYS:HD2	1.83	0.43
6:F:214:VAL:HG22	6:F:377:THR:OG1	2.18	0.43
7:G:82:THR:HG21	7:G:517:ILE:HD11	1.99	0.43
7:G:454:CYS:CB	7:G:461:ALA:HA	2.48	0.43
7:G:492:PHE:CB	7:G:497:TRP:HZ2	2.31	0.43
8:H:311:HIS:CG	8:H:312:TYR:N	2.86	0.43
1:I:351:GLU:N	1:I:351:GLU:OE2	2.51	0.43
2:J:40:LYS:HZ2	6:N:117:ILE:HG13	1.83	0.43
2:J:141:ASP:CG	2:J:142:ASN:N	2.74	0.43
3:K:310:LEU:HD21	3:K:316:VAL:HG22	1.99	0.43
4:L:161:LYS:HA	4:L:161:LYS:HD2	1.66	0.43
5:M:142:HIS:CD2	5:M:144:ILE:HB	2.53	0.43
5:M:162:GLU:C	5:M:164:THR:H	2.27	0.43
5:M:271:ILE:CB	5:M:362:ILE:HA	2.48	0.43
6:N:171:THR:CB	6:N:172:PRO:HD3	2.48	0.43
6:N:185:GLN:HB3	6:N:407:LYS:HD3	2.00	0.43
6:N:195:GLU:OE1	6:N:197:MET:CE	2.65	0.43
6:N:221:HIS:HA	6:N:222:PRO:HD3	1.92	0.43
7:O:66:GLY:C	7:O:68:THR:H	2.27	0.43
7:O:412:GLY:C	7:O:491:ASN:ND2	2.76	0.43
8:P:467:ALA:HB2	8:P:493:ASP:CB	2.49	0.43
1:a:1090:GLN:HE21	1:a:1527:SER:HB3	1.83	0.43
2:b:1015:ALA:O	2:b:1016:GLU:C	2.60	0.43
2:b:1422:ILE:O	2:b:1423:ASP:C	2.61	0.43
3:c:1303:ASP:HB3	3:c:1304:LEU:H	1.46	0.43
4:d:1058:SER:HA	4:d:1392:ARG:HH12	1.84	0.43
4:d:1221:LYS:HE3	4:d:1306:SER:CB	2.49	0.43
4:d:1379:ILE:HD12	4:d:1379:ILE:N	2.33	0.43
4:d:1499:GLN:HA	4:d:1500:PRO:HD3	1.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1517:SER:O	4:d:1521:ILE:HG13	2.19	0.43
6:f:1036:ASN:CB	6:f:1057:LYS:HZ2	2.15	0.43
6:f:1056:THR:HB	6:f:1390:GLN:CD	2.42	0.43
6:f:1171:THR:N	6:f:1172:PRO:HD2	2.33	0.43
6:f:1296:ILE:HG12	6:f:1317:LEU:HB2	1.98	0.43
7:g:1030:ILE:O	7:g:1033:CYS:HB3	2.19	0.43
7:g:1033:CYS:HG	7:g:1083:LEU:HD11	1.82	0.43
8:h:1063:ILE:HD12	8:h:1074:GLU:CG	2.45	0.43
8:h:1523:THR:HA	8:h:1526:PHE:HD2	1.83	0.43
2:j:1329:PHE:CD2	2:j:1329:PHE:O	2.53	0.43
3:k:1441:PRO:O	3:k:1444:ALA:HB3	2.18	0.43
3:k:1525:ASP:OD1	8:p:1053:LYS:CB	2.66	0.43
4:l:1134:ILE:HB	4:l:1421:ILE:CD1	2.48	0.43
4:l:1146:ASP:HB2	4:l:1149:GLN:HB2	2.01	0.43
4:l:1517:SER:O	4:l:1521:ILE:HG13	2.19	0.43
5:m:1527:VAL:HG13	9:m:1601:ADP:N6	2.33	0.43
6:n:1280:LEU:CD1	6:n:1343:LEU:HD11	2.48	0.43
8:p:1186:VAL:C	8:p:1188:HIS:H	2.26	0.43
1:A:177:SER:O	1:A:181:VAL:HG23	2.19	0.43
2:B:169:ASP:HB2	2:B:172:HIS:HB2	2.00	0.43
2:B:226:ILE:HG13	2:B:282:ASN:OD1	2.18	0.43
3:C:61:GLY:CA	3:C:94:THR:HG22	2.49	0.43
3:C:113:GLU:OE1	1:I:460:LYS:NZ	2.47	0.43
3:C:152:LYS:HG2	3:C:176:LEU:HG	2.01	0.43
3:C:516:SER:C	3:C:518:CYS:H	2.27	0.43
4:D:66:LYS:HA	4:D:66:LYS:HD2	1.62	0.43
4:D:248:THR:O	4:D:250:ASN:OD1	2.37	0.43
4:D:461:ASN:CB	4:D:464:LYS:HG2	2.47	0.43
6:F:324:ASN:HA	6:F:327:ARG:HB2	2.00	0.43
8:H:250:PHE:N	8:H:250:PHE:CD2	2.86	0.43
8:H:333:CYS:SG	8:H:339:THR:HA	2.59	0.43
8:H:464:ALA:HB2	8:H:474:VAL:HG11	2.00	0.43
1:I:54:VAL:HB	7:O:525:THR:HA	2.00	0.43
1:I:73:LEU:O	1:I:74:ASP:OD1	2.36	0.43
1:I:187:VAL:CG1	1:I:382:SER:H	2.31	0.43
1:I:460:LYS:O	1:I:464:VAL:HG23	2.18	0.43
2:J:422:ILE:CB	2:J:427:SER:CB	2.79	0.43
2:J:459:LEU:HD13	2:J:472:LEU:HD23	2.00	0.43
2:J:515:ILE:O	3:K:48:LEU:HA	2.19	0.43
3:K:9:ASN:HB2	8:P:78:VAL:HG13	2.00	0.43
3:K:268:ASP:O	3:K:269:TRP:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:22:LYS:O	4:L:26:ILE:HG13	2.19	0.43
5:M:73:ILE:HG12	5:M:83:ILE:CG1	2.44	0.43
5:M:352:GLU:CD	5:M:353:HIS:H	2.26	0.43
7:O:51:ILE:HD12	7:O:69:ILE:HD11	2.01	0.43
7:O:130:ARG:HA	7:O:130:ARG:HE	1.84	0.43
7:O:452:GLN:O	7:O:456:ASN:N	2.49	0.43
2:b:1494:LYS:HD2	2:b:1494:LYS:HA	1.79	0.43
4:d:1226:PRO:HD2	4:d:1311:MET:HG2	2.01	0.43
4:d:1248:THR:O	4:d:1250:ASN:OD1	2.37	0.43
4:d:1253:ILE:H	4:d:1253:ILE:HG12	1.64	0.43
5:e:1162:GLU:C	5:e:1164:THR:H	2.27	0.43
6:f:1114:HIS:ND1	6:f:1115:PRO:HD2	2.34	0.43
6:f:1147:ARG:HH22	6:f:1409:LYS:HA	1.84	0.43
6:f:1234:LEU:HD12	6:f:1280:LEU:HD11	2.00	0.43
7:g:1448:VAL:HA	7:g:1451:ARG:HB2	2.00	0.43
8:h:1424:GLY:O	8:h:1425:ALA:C	2.61	0.43
8:h:1463:LEU:HD11	9:h:1601:ADP:C8	2.54	0.43
1:i:1544:MET:HG3	5:m:1073:ILE:HG22	2.00	0.43
2:j:1100:ALA:O	2:j:1104:ARG:HG3	2.18	0.43
2:j:1146:LYS:HD3	2:j:1146:LYS:N	2.34	0.43
2:j:1169:ASP:HB2	2:j:1172:HIS:HB2	2.00	0.43
2:j:1370:ARG:O	2:j:1371:GLY:C	2.61	0.43
2:j:1372:ALA:HA	6:n:1519:GLY:HA2	2.00	0.43
3:k:1224:LEU:C	3:k:1225:LEU:HD23	2.43	0.43
3:k:1231:HIS:HA	3:k:1232:PRO:HD3	1.72	0.43
3:k:1268:ASP:O	3:k:1269:TRP:C	2.62	0.43
4:l:1379:ILE:HD12	4:l:1379:ILE:N	2.33	0.43
4:l:1447:LEU:C	4:l:1449:VAL:H	2.26	0.43
5:m:1456:GLU:HA	5:m:1456:GLU:OE2	2.17	0.43
6:n:1011:GLU:OE2	6:n:1011:GLU:N	2.52	0.43
6:n:1070:SER:O	6:n:1071:PRO:C	2.61	0.43
6:n:1419:TYR:O	6:n:1422:LEU:HB2	2.19	0.43
7:o:1220:PHE:C	7:o:1222:LYS:H	2.26	0.43
7:o:1316:GLY:O	7:o:1317:ARG:CB	2.52	0.43
7:o:1346:LEU:HD23	7:o:1346:LEU:N	2.33	0.43
7:o:1454:CYS:CB	7:o:1461:ALA:HA	2.48	0.43
8:p:1311:HIS:CG	8:p:1312:TYR:N	2.86	0.43
1:A:54:VAL:HG12	1:A:56:ASP:N	2.30	0.43
1:A:187:VAL:CG1	1:A:382:SER:H	2.30	0.43
1:A:224:LEU:CD1	1:A:226:CYS:CB	2.90	0.43
1:A:460:LYS:O	1:A:464:VAL:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:45:LEU:HD12	6:F:533:LEU:HD13	2.00	0.43
2:B:401:VAL:HG22	2:B:402:LEU:N	2.33	0.43
3:C:209:ILE:HG23	3:C:382:ARG:HA	2.00	0.43
3:C:229:VAL:HG11	3:C:234:MET:CE	2.49	0.43
4:D:386:ILE:C	4:D:388:ASP:N	2.76	0.43
5:E:73:ILE:O	5:E:74:LEU:HD22	2.18	0.43
6:F:114:HIS:ND1	6:F:115:PRO:HD2	2.34	0.43
6:F:221:HIS:CD2	6:F:224:MET:SD	3.09	0.43
7:G:130:ARG:HA	7:G:130:ARG:HE	1.84	0.43
7:G:162:ALA:CB	7:G:179:VAL:HG13	2.47	0.43
7:G:166:MET:O	7:G:171:ILE:HB	2.18	0.43
7:G:382:ALA:O	7:G:386:ILE:HG13	2.18	0.43
8:H:155:ASP:HB3	8:H:156:LYS:H	1.48	0.43
2:J:164:LYS:C	2:J:166:LEU:N	2.77	0.43
2:J:329:PHE:CD2	2:J:329:PHE:O	2.53	0.43
2:J:370:ARG:O	2:J:371:GLY:C	2.61	0.43
2:J:513:ASN:C	2:J:514:ILE:HD13	2.36	0.43
3:K:152:LYS:HG2	3:K:176:LEU:HG	2.01	0.43
4:L:146:ASP:HB2	4:L:149:GLN:HB2	2.01	0.43
4:L:369:ASN:C	4:L:371:ALA:H	2.27	0.43
4:L:386:ILE:C	4:L:388:ASP:N	2.76	0.43
5:M:262:GLU:HA	5:M:263:GLY:HA2	1.67	0.43
5:M:431:ARG:HA	5:M:434:VAL:HG12	2.01	0.43
6:N:527:LEU:HA	6:N:527:LEU:HD23	1.71	0.43
7:O:83:LEU:HA	7:O:86:ILE:HD11	2.01	0.43
8:P:35:ILE:HG23	8:P:85:LEU:HD12	2.01	0.43
8:P:333:CYS:SG	8:P:339:THR:HA	2.59	0.43
8:P:420:LEU:HD23	8:P:421:PRO:HD2	2.01	0.43
8:P:424:GLY:O	8:P:428:ILE:HG13	2.18	0.43
1:a:1177:SER:O	1:a:1181:VAL:HG23	2.18	0.43
2:b:1161:LEU:HD22	2:b:1166:LEU:HD11	2.01	0.43
2:b:1440:LEU:N	2:b:1441:PRO:HD2	2.33	0.43
2:b:1515:ILE:O	3:c:1048:LEU:HA	2.18	0.43
3:c:1028:ALA:HB2	3:c:1074:ALA:O	2.18	0.43
3:c:1035:ILE:CD1	3:c:1065:LEU:HG	2.47	0.43
6:f:1419:TYR:O	6:f:1422:LEU:HB2	2.19	0.43
8:h:1420:LEU:HD23	8:h:1421:PRO:HD2	2.01	0.43
8:h:1464:ALA:HB2	8:h:1474:VAL:HG11	2.00	0.43
2:j:1008:ASP:OD1	2:j:1008:ASP:N	2.51	0.43
2:j:1015:ALA:O	2:j:1016:GLU:C	2.60	0.43
2:j:1032:LEU:HD12	6:n:1532:GLU:OE2	2.15	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:k:1430:LYS:O	3:k:1433:GLN:CG	2.57	0.43
4:l:1236:LEU:O	4:l:1332:PRO:HA	2.18	0.43
4:l:1325:SER:HB3	4:l:1332:PRO:CG	2.49	0.43
7:o:1303:ALA:O	7:o:1307:PHE:CD2	2.70	0.43
8:p:1106:LEU:O	8:p:1107:ALA:C	2.61	0.43
8:p:1333:CYS:SG	8:p:1339:THR:HA	2.59	0.43
8:p:1467:ALA:HB2	8:p:1493:ASP:CB	2.49	0.43
1:A:90:GLN:HG3	1:A:101:VAL:CG2	2.19	0.43
1:A:350:PHE:O	1:A:351:GLU:OE2	2.36	0.43
1:A:396:ASP:O	1:A:399:GLU:HB3	2.19	0.43
1:A:434:ASP:O	1:A:438:THR:HG23	2.19	0.43
2:B:8:ASP:N	2:B:8:ASP:OD1	2.51	0.43
2:B:490:SER:HB2	2:B:492:LYS:CE	2.49	0.43
3:C:174:LEU:HD21	3:C:379:ILE:HG21	2.01	0.43
3:C:341:GLU:OE2	8:H:281:GLU:OE2	2.37	0.43
4:D:461:ASN:HB3	4:D:464:LYS:CG	2.48	0.43
6:F:390:GLN:HE21	6:F:390:GLN:HA	1.84	0.43
6:F:419:TYR:O	6:F:422:LEU:HB2	2.19	0.43
7:G:516:LEU:CD2	7:G:517:ILE:N	2.68	0.43
8:H:101:ASN:N	8:H:101:ASN:HD22	2.16	0.43
8:H:467:ALA:HB2	8:H:493:ASP:CB	2.49	0.43
8:H:523:THR:HA	8:H:526:PHE:HD2	1.83	0.43
2:J:417:THR:HG23	2:J:418:GLU:N	2.33	0.43
2:J:422:ILE:O	2:J:423:ASP:C	2.61	0.43
3:K:521:LEU:C	3:K:523:VAL:H	2.26	0.43
4:L:58:SER:HA	4:L:392:ARG:HH12	1.84	0.43
4:L:233:LYS:C	4:L:234:ILE:HD12	2.44	0.43
4:L:469:LEU:HD23	4:L:469:LEU:HA	1.87	0.43
5:M:170:ALA:N	5:M:523:LYS:HZ1	2.17	0.43
5:M:429:VAL:O	5:M:432:ASN:HB2	2.18	0.43
7:O:55:THR:HG21	7:O:72:LEU:HD23	2.01	0.43
7:O:132:ALA:HB2	7:O:439:ILE:HD13	2.01	0.43
7:O:139:LYS:CB	7:O:420:VAL:HG12	2.49	0.43
7:O:220:PHE:C	7:O:222:LYS:H	2.26	0.43
7:O:235:LYS:CB	7:O:352:PHE:C	2.91	0.43
1:a:1363:GLN:HE21	1:a:1363:GLN:HB2	1.66	0.43
1:a:1538:ILE:HA	1:a:1541:ILE:HD12	1.99	0.43
2:b:1008:ASP:OD1	2:b:1008:ASP:N	2.51	0.43
3:c:1152:LYS:HG2	3:c:1176:LEU:HG	2.01	0.43
3:c:1209:ILE:HG23	3:c:1382:ARG:HA	1.99	0.43
4:d:1236:LEU:O	4:d:1332:PRO:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1238:GLN:HE22	4:d:1318:ARG:NH1	2.15	0.43
5:e:1447:GLU:HG2	5:e:1479:ILE:HB	2.01	0.43
6:f:1430:ASN:CA	6:f:1433:LYS:HB2	2.48	0.43
7:g:1066:GLY:C	7:g:1068:THR:H	2.27	0.43
8:h:1428:ILE:CD1	8:h:1478:LEU:HD13	2.48	0.43
1:i:1016:GLY:HA3	1:i:1548:ASP:CB	2.44	0.43
1:i:1066:GLY:HA3	1:i:1099:THR:HG22	2.01	0.43
2:j:1162:SER:O	2:j:1163:SER:OG	2.30	0.43
2:j:1203:LEU:O	2:j:1204:SER:OG	2.30	0.43
2:j:1206:SER:HB2	2:j:1368:VAL:HG22	2.00	0.43
2:j:1218:PHE:HA	2:j:1304:ASN:O	2.19	0.43
2:j:1231:ILE:HG22	2:j:1232:LEU:H	1.83	0.43
3:k:1243:VAL:O	3:k:1348:VAL:HG13	2.19	0.43
4:l:1200:VAL:HA	4:l:1381:GLY:O	2.18	0.43
5:m:1352:GLU:CD	5:m:1353:HIS:H	2.26	0.43
5:m:1485:GLU:HB2	5:m:1491:PRO:HG3	2.01	0.43
6:n:1037:LEU:HB3	9:n:1601:ADP:O2A	2.18	0.43
6:n:1451:LEU:O	6:n:1455:PRO:CG	2.66	0.43
8:p:1062:ILE:HD13	8:p:1063:ILE:N	2.32	0.43
8:p:1393:ASN:O	8:p:1397:ILE:HG13	2.18	0.43
1:A:66:GLY:HA3	1:A:99:THR:HG22	2.01	0.43
1:A:431:ILE:HG21	1:A:482:ALA:HA	2.01	0.43
2:B:243:VAL:HG12	2:B:245:ILE:N	2.29	0.43
2:B:326:VAL:HG13	3:C:304:LEU:CD2	2.48	0.43
3:C:310:LEU:HD21	3:C:316:VAL:HG22	1.99	0.43
4:D:55:ILE:HD12	8:H:80:PRO:HB3	2.01	0.43
4:D:58:SER:HA	4:D:392:ARG:HH12	1.84	0.43
5:E:364:PRO:HG3	6:F:307:ASP:CB	2.49	0.43
6:F:195:GLU:HG2	6:F:197:MET:CE	2.48	0.43
6:F:426:LEU:C	6:F:426:LEU:HD13	2.44	0.43
7:G:66:GLY:C	7:G:68:THR:H	2.27	0.43
7:G:234:LYS:HA	7:G:234:LYS:HD3	1.34	0.43
8:H:335:VAL:HG23	8:H:381:THR:OG1	2.19	0.43
1:I:129:PHE:CB	1:I:532:LEU:HD21	2.48	0.43
1:I:187:VAL:O	1:I:381:SER:CA	2.67	0.43
1:I:267:PRO:HB2	1:I:269:GLN:CB	2.49	0.43
2:J:60:GLY:H	2:J:93:THR:HG22	1.83	0.43
2:J:350:GLU:H	2:J:350:GLU:HG2	1.37	0.43
3:K:224:LEU:C	3:K:225:LEU:HD23	2.43	0.43
5:M:33:LYS:O	5:M:33:LYS:HG2	2.19	0.43
5:M:87:GLY:HA3	5:M:120:THR:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:447:GLU:HG2	5:M:479:ILE:HB	2.01	0.43
6:N:114:HIS:ND1	6:N:115:PRO:HD2	2.34	0.43
6:N:160:THR:N	6:N:164:ALA:HB3	2.31	0.43
7:O:101:VAL:HG22	7:O:506:ALA:HA	2.01	0.43
8:P:335:VAL:HG23	8:P:381:THR:OG1	2.19	0.43
1:a:1301:GLY:HA2	1:a:1320:ARG:H	1.84	0.43
1:a:1434:ASP:O	1:a:1438:THR:HG23	2.19	0.43
2:b:1319:LEU:HD23	2:b:1319:LEU:O	2.19	0.43
3:c:1114:LYS:CA	3:c:1115:ASN:CB	2.94	0.43
3:c:1291:ARG:N	3:c:1292:PRO:CD	2.80	0.43
8:h:1163:ILE:HG12	8:h:1182:VAL:HG11	2.01	0.43
8:h:1226:MET:HE1	8:h:1328:GLU:CG	2.47	0.43
8:h:1333:CYS:SG	8:h:1339:THR:HA	2.59	0.43
1:i:1054:VAL:HG12	1:i:1056:ASP:N	2.30	0.43
1:i:1118:ASN:O	1:i:1119:LYS:CG	2.65	0.43
1:i:1120:ILE:HG21	1:i:1125:ILE:HG12	2.00	0.43
1:i:1434:ASP:O	1:i:1438:THR:HG23	2.19	0.43
3:k:1219:VAL:O	3:k:1219:VAL:HG12	2.18	0.43
3:k:1286:GLN:OE1	3:k:1340:VAL:HG22	2.19	0.43
4:l:1159:SER:C	4:l:1161:LYS:N	2.76	0.43
4:l:1161:LYS:HA	4:l:1161:LYS:HD2	1.66	0.43
6:n:1114:HIS:ND1	6:n:1115:PRO:HD2	2.34	0.43
6:n:1185:GLN:HB3	6:n:1407:LYS:HD3	2.00	0.43
6:n:1430:ASN:CA	6:n:1433:LYS:HB2	2.48	0.43
7:o:1082:THR:HG21	7:o:1517:ILE:HD11	1.99	0.43
7:o:1132:ALA:HB2	7:o:1439:ILE:HD13	2.01	0.43
7:o:1166:MET:O	7:o:1171:ILE:HB	2.18	0.43
7:o:1492:PHE:CB	7:o:1497:TRP:HZ2	2.31	0.43
8:p:1134:ALA:O	8:p:1138:THR:HG23	2.17	0.43
8:p:1163:ILE:HG12	8:p:1182:VAL:HG11	2.01	0.43
8:p:1428:ILE:CD1	8:p:1478:LEU:HD13	2.48	0.43
1:A:129:PHE:N	1:A:129:PHE:HD2	2.17	0.43
1:A:345:GLU:HA	1:A:346:GLY:HA2	1.67	0.43
1:A:351:GLU:OE2	1:A:351:GLU:N	2.52	0.43
2:B:27:ILE:O	2:B:27:ILE:HG12	2.15	0.43
2:B:92:THR:HA	2:B:95:VAL:HG23	2.00	0.43
3:C:35:ILE:CD1	3:C:65:LEU:HG	2.47	0.43
3:C:108:ALA:N	3:C:109:PRO:CD	2.81	0.43
4:D:22:LYS:O	4:D:26:ILE:HG13	2.19	0.43
4:D:134:ILE:HB	4:D:421:ILE:HD13	2.01	0.43
4:D:233:LYS:C	4:D:234:ILE:HD12	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:325:SER:HB3	4:D:332:PRO:CG	2.49	0.43
5:E:87:GLY:HA3	5:E:120:THR:HG22	2.01	0.43
5:E:162:GLU:C	5:E:164:THR:H	2.27	0.43
5:E:245:LEU:HD22	5:E:245:LEU:HA	1.80	0.43
5:E:447:GLU:HG2	5:E:479:ILE:HB	2.01	0.43
6:F:83:GLN:HB2	6:F:91:THR:HG22	2.00	0.43
6:F:185:GLN:HB3	6:F:407:LYS:HD3	2.00	0.43
6:F:234:LEU:HD12	6:F:280:LEU:HD11	2.00	0.43
6:F:429:ALA:O	6:F:432:ASN:HB2	2.19	0.43
6:F:433:LYS:HB3	6:F:444:ILE:HG13	2.00	0.43
6:F:503:ILE:O	6:F:503:ILE:HG22	2.18	0.43
7:G:17:THR:HG21	7:G:525:THR:O	2.19	0.43
7:G:51:ILE:HD12	7:G:69:ILE:HD11	2.01	0.43
7:G:55:THR:HG21	7:G:72:LEU:HD23	2.01	0.43
7:G:113:LYS:O	7:G:116:LEU:HB2	2.19	0.43
1:I:177:SER:O	1:I:181:VAL:HG23	2.19	0.43
2:J:58:ASN:HD21	2:J:93:THR:HG21	1.84	0.43
2:J:243:VAL:CG1	2:J:245:ILE:HG13	2.49	0.43
3:K:219:VAL:O	3:K:219:VAL:HG12	2.18	0.43
3:K:282:LEU:O	3:K:286:GLN:HG3	2.19	0.43
4:L:103:LEU:HD22	4:L:515:VAL:HG21	1.99	0.43
4:L:461:ASN:HB3	4:L:464:LYS:CG	2.48	0.43
5:M:84:THR:O	5:M:90:ILE:HD11	2.18	0.43
5:M:483:LEU:HD21	9:M:601:ADP:H1'	2.00	0.43
6:N:113:VAL:CB	6:N:118:ILE:HD11	2.47	0.43
6:N:324:ASN:HA	6:N:327:ARG:HB2	2.00	0.43
6:N:426:LEU:C	6:N:426:LEU:HD13	2.44	0.43
6:N:451:LEU:O	6:N:455:PRO:CG	2.66	0.43
7:O:82:THR:HG21	7:O:517:ILE:HD11	1.99	0.43
1:a:1017:GLY:HA2	1:a:1546:THR:O	2.18	0.43
1:a:1073:LEU:O	1:a:1074:ASP:OD1	2.36	0.43
1:a:1120:ILE:CG2	1:a:1121:HIS:N	2.81	0.43
1:a:1494:ARG:CA	1:a:1495:ARG:C	2.92	0.43
2:b:1218:PHE:HA	2:b:1304:ASN:O	2.19	0.43
2:b:1402:LEU:CD2	2:b:1483:ARG:HG3	2.46	0.43
3:c:1250:LEU:CG	3:c:1301:VAL:HB	2.49	0.43
3:c:1286:GLN:OE1	3:c:1340:VAL:HG22	2.19	0.43
4:d:1386:ILE:C	4:d:1388:ASP:N	2.76	0.43
5:e:1271:ILE:CB	5:e:1362:ILE:HA	2.48	0.43
7:g:1130:ARG:HA	7:g:1130:ARG:HE	1.84	0.43
7:g:1145:VAL:O	7:g:1408:LEU:CA	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:h:1015:LYS:HG3	8:h:1016:GLN:H	1.83	0.43
8:h:1302:GLY:HA2	8:h:1324:PRO:HD2	2.01	0.43
2:j:1047:GLN:HE22	2:j:1053:THR:N	2.17	0.43
2:j:1308:HIS:CE1	2:j:1313:GLY:HA3	2.54	0.43
2:j:1440:LEU:N	2:j:1441:PRO:HD2	2.33	0.43
2:j:1490:SER:HB2	2:j:1492:LYS:CE	2.49	0.43
3:k:1035:ILE:CD1	3:k:1065:LEU:HG	2.47	0.43
3:k:1170:LYS:C	3:k:1170:LYS:CD	2.92	0.43
4:l:1066:LYS:HA	4:l:1066:LYS:HD2	1.62	0.43
4:l:1226:PRO:HD2	4:l:1311:MET:HG2	2.01	0.43
5:m:1297:LYS:HB3	6:n:1256:ALA:CB	2.49	0.43
5:m:1350:GLU:O	5:m:1353:HIS:N	2.52	0.43
5:m:1364:PRO:HG3	6:n:1307:ASP:CB	2.49	0.43
5:m:1447:GLU:HG2	5:m:1479:ILE:HB	2.01	0.43
6:n:1105:ALA:HA	6:n:1108:PHE:CE2	2.54	0.43
6:n:1390:GLN:HA	6:n:1390:GLN:HE21	1.84	0.43
6:n:1540:THR:CB	6:n:1541:LEU:HD22	2.44	0.43
7:o:1409:ILE:CG2	7:o:1410:VAL:N	2.82	0.43
8:p:1250:PHE:CD2	8:p:1250:PHE:N	2.86	0.43
2:B:308:HIS:CE1	2:B:313:GLY:HA3	2.54	0.43
3:C:47:MET:CE	3:C:49:LEU:HD21	2.49	0.43
3:C:50:ASP:OD1	3:C:54:GLY:HA3	2.18	0.43
3:C:350:THR:O	3:C:350:THR:HG22	2.18	0.43
3:C:483:GLY:O	3:C:491:ILE:HB	2.18	0.43
4:D:241:ILE:HD12	4:D:241:ILE:N	2.30	0.43
4:D:253:ILE:H	4:D:253:ILE:HG12	1.64	0.43
6:F:221:HIS:HB2	6:F:224:MET:CG	2.43	0.43
7:G:73:LEU:HD13	7:G:73:LEU:C	2.44	0.43
8:H:77:ILE:H	8:H:77:ILE:CD1	2.26	0.43
8:H:420:LEU:HD23	8:H:421:PRO:HD2	2.01	0.43
1:I:281:VAL:O	1:I:285:VAL:HG23	2.19	0.43
1:I:434:ASP:O	1:I:438:THR:HG23	2.19	0.43
2:J:47:GLN:HE22	2:J:53:THR:N	2.17	0.43
2:J:165:ILE:HG12	6:N:529:LEU:CD1	2.43	0.43
2:J:169:ASP:HB2	2:J:172:HIS:HB2	2.00	0.43
2:J:294:PRO:HA	2:J:297:LEU:HB2	2.00	0.43
2:J:440:LEU:N	2:J:441:PRO:HD2	2.33	0.43
2:J:467:ILE:HA	2:J:468:SER:HA	1.59	0.43
3:K:441:PRO:O	3:K:444:ALA:HB3	2.18	0.43
4:L:184:GLU:HA	4:L:187:LYS:HG2	2.00	0.43
4:L:221:LYS:HE3	4:L:306:SER:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:226:PRO:HD2	4:L:311:MET:HG2	2.01	0.43
4:L:389:GLU:O	4:L:392:ARG:HD3	2.19	0.43
4:L:423:ARG:O	4:L:427:LYS:HG2	2.19	0.43
5:M:310:ILE:HG23	5:M:335:LEU:HD23	2.01	0.43
6:N:151:LEU:O	6:N:171:THR:HG21	2.19	0.43
6:N:174:VAL:O	6:N:178:VAL:HG23	2.18	0.43
6:N:420:ILE:O	6:N:424:ARG:N	2.40	0.43
6:N:426:LEU:HD22	6:N:426:LEU:HA	1.86	0.43
7:O:17:THR:HG21	7:O:525:THR:O	2.19	0.43
8:P:464:ALA:HB2	8:P:474:VAL:HG11	2.00	0.43
2:b:1308:HIS:CE1	2:b:1313:GLY:HA3	2.54	0.43
2:b:1331:GLU:HA	2:b:1332:PRO:HD3	1.79	0.43
3:c:1243:VAL:O	3:c:1348:VAL:HG13	2.19	0.43
3:c:1268:ASP:O	3:c:1269:TRP:C	2.62	0.43
3:c:1350:THR:HG22	3:c:1350:THR:O	2.18	0.43
5:e:1445:ALA:CB	5:e:1510:ILE:O	2.67	0.43
5:e:1477:ASP:O	5:e:1480:PRO:HD2	2.19	0.43
6:f:1083:GLN:O	6:f:1084:ASP:C	2.62	0.43
6:f:1503:ILE:O	6:f:1503:ILE:HG22	2.18	0.43
8:h:1269:ASN:O	8:h:1272:GLU:HB2	2.19	0.43
1:i:1091:ASP:HA	1:i:1095:GLY:HA2	2.00	0.43
1:i:1185:LEU:HD23	1:i:1185:LEU:HA	1.85	0.43
1:i:1262:ILE:HD13	5:m:1295:TYR:OH	2.18	0.43
1:i:1281:VAL:O	1:i:1285:VAL:HG23	2.19	0.43
1:i:1351:GLU:N	1:i:1351:GLU:OE2	2.51	0.43
1:i:1431:ILE:HG21	1:i:1482:ALA:HA	2.01	0.43
2:j:1120:ILE:HG23	2:j:1124:TYR:CE1	2.54	0.43
2:j:1243:VAL:CG1	2:j:1245:ILE:HG13	2.49	0.43
2:j:1350:GLU:H	2:j:1350:GLU:HG2	1.37	0.43
3:k:1028:ALA:HB2	3:k:1074:ALA:O	2.18	0.43
3:k:1084:THR:HG22	8:p:1213:MET:SD	2.59	0.43
3:k:1174:LEU:HD21	3:k:1379:ILE:HG21	2.01	0.43
3:k:1512:THR:HG23	8:p:1389:ALA:CB	2.49	0.43
4:l:1094:THR:O	4:l:1096:VAL:N	2.52	0.43
4:l:1098:ILE:HG12	4:l:1098:ILE:H	1.57	0.43
4:l:1134:ILE:HB	4:l:1421:ILE:HD13	2.01	0.43
5:m:1170:ALA:N	5:m:1523:LYS:HZ1	2.17	0.43
5:m:1445:ALA:CB	5:m:1510:ILE:O	2.67	0.43
8:p:1035:ILE:HG23	8:p:1085:LEU:HD12	2.01	0.43
8:p:1291:ILE:HD12	8:p:1347:PRO:HG3	1.97	0.43
1:A:55:ASP:C	1:A:57:ILE:N	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:109:LEU:O	1:A:110:LYS:C	2.62	0.42
1:A:546:THR:HA	5:E:75:ILE:HB	2.01	0.42
2:B:294:PRO:HA	2:B:297:LEU:HB2	2.00	0.42
2:B:319:LEU:HD23	2:B:319:LEU:O	2.19	0.42
2:B:422:ILE:O	2:B:423:ASP:C	2.61	0.42
2:B:440:LEU:N	2:B:441:PRO:HD2	2.33	0.42
3:C:282:LEU:O	3:C:286:GLN:HG3	2.19	0.42
4:D:159:SER:C	4:D:161:LYS:N	2.76	0.42
5:E:132:GLN:HA	5:E:132:GLN:NE2	2.33	0.42
5:E:431:ARG:HA	5:E:434:VAL:HG12	2.00	0.42
6:F:143:LEU:CD1	6:F:145:ASN:CB	2.96	0.42
7:G:101:VAL:HG22	7:G:506:ALA:HA	2.01	0.42
7:G:178:PHE:CZ	7:G:389:VAL:HG13	2.53	0.42
7:G:282:LEU:HD12	7:G:283:ARG:N	2.34	0.42
8:H:35:ILE:HG23	8:H:85:LEU:HD12	2.01	0.42
8:H:302:GLY:HA2	8:H:324:PRO:HD2	2.01	0.42
1:I:145:SER:C	1:I:147:SER:H	2.25	0.42
1:I:543:THR:O	5:M:72:LYS:HB3	2.19	0.42
2:J:218:PHE:HA	2:J:304:ASN:O	2.19	0.42
2:J:319:LEU:HD23	2:J:319:LEU:O	2.19	0.42
2:J:397:GLU:HG2	2:J:492:LYS:HZ3	1.84	0.42
3:K:99:LEU:O	3:K:100:ALA:C	2.62	0.42
4:L:77:MET:O	4:L:81:VAL:HG23	2.18	0.42
4:L:134:ILE:HB	4:L:421:ILE:HD13	2.01	0.42
5:M:477:ASP:O	5:M:480:PRO:HD2	2.19	0.42
6:N:92:THR:OG1	9:N:601:ADP:O2B	2.35	0.42
6:N:147:ARG:HH22	6:N:409:LYS:HA	1.84	0.42
6:N:212:GLY:O	6:N:213:LEU:C	2.60	0.42
7:O:236:PHE:O	7:O:239:PRO:HG3	2.19	0.42
8:P:137:PHE:HE2	8:P:434:ILE:HA	1.84	0.42
8:P:318:ILE:HG22	8:P:319:LEU:O	2.19	0.42
1:a:1120:ILE:HG21	1:a:1125:ILE:HG12	2.00	0.42
2:b:1196:ILE:O	2:b:1367:ILE:HA	2.19	0.42
2:b:1317:LEU:O	2:b:1321:THR:N	2.50	0.42
4:d:1022:LYS:O	4:d:1026:ILE:HG13	2.19	0.42
4:d:1134:ILE:HB	4:d:1421:ILE:HD13	2.01	0.42
4:d:1232:ALA:O	4:d:1234:ILE:HD12	2.19	0.42
4:d:1233:LYS:C	4:d:1234:ILE:HD12	2.44	0.42
4:d:1439:ILE:O	4:d:1439:ILE:HG22	2.19	0.42
5:e:1269:LEU:HD22	5:e:1269:LEU:H	1.84	0.42
5:e:1348:GLY:O	5:e:1351:LEU:HD12	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1083:GLN:HB2	6:f:1091:THR:HG22	2.00	0.42
6:f:1390:GLN:HA	6:f:1390:GLN:HE21	1.84	0.42
6:f:1429:ALA:O	6:f:1432:ASN:HB2	2.19	0.42
6:f:1540:THR:CB	6:f:1541:LEU:HD22	2.44	0.42
7:g:1236:PHE:O	7:g:1239:PRO:HD3	2.19	0.42
7:g:1236:PHE:O	7:g:1239:PRO:HG3	2.19	0.42
8:h:1137:PHE:HE2	8:h:1434:ILE:HA	1.84	0.42
8:h:1177:ILE:O	8:h:1181:LEU:HD12	2.19	0.42
8:h:1296:VAL:HG11	8:h:1299:ILE:HD11	2.01	0.42
1:i:1090:GLN:HE21	1:i:1527:SER:HB3	1.83	0.42
1:i:1120:ILE:CG2	1:i:1121:HIS:N	2.81	0.42
2:j:1164:LYS:C	2:j:1166:LEU:N	2.77	0.42
3:k:1009:ASN:HB2	8:p:1078:VAL:CG1	2.49	0.42
3:k:1047:MET:CE	3:k:1049:LEU:HD21	2.49	0.42
3:k:1355:PHE:HE2	3:k:1366:SER:HB3	1.84	0.42
4:l:1022:LYS:O	4:l:1026:ILE:HG13	2.19	0.42
4:l:1232:ALA:O	4:l:1234:ILE:HD12	2.19	0.42
5:m:1087:GLY:HA3	5:m:1120:THR:HG22	2.01	0.42
5:m:1396:GLU:HA	5:m:1397:GLN:HA	1.53	0.42
6:n:1136:PHE:O	6:n:1138:ILE:HG13	2.19	0.42
6:n:1539:SER:HB2	6:n:1542:LYS:HD3	1.99	0.42
8:p:1293:ASP:C	8:p:1295:GLY:H	2.27	0.42
8:p:1296:VAL:HG11	8:p:1299:ILE:HD11	2.01	0.42
2:B:494:LYS:HA	2:B:494:LYS:HD2	1.79	0.42
4:D:200:VAL:HA	4:D:381:GLY:O	2.18	0.42
4:D:219:ALA:HB1	4:D:221:LYS:HZ1	1.82	0.42
4:D:236:LEU:O	4:D:332:PRO:HA	2.18	0.42
4:D:423:ARG:O	4:D:427:LYS:HG2	2.19	0.42
4:D:517:SER:O	4:D:521:ILE:HG13	2.19	0.42
5:E:263:GLY:HA3	5:E:380:ILE:O	2.19	0.42
5:E:466:GLN:HG3	5:E:467:TYR:CD2	2.54	0.42
5:E:485:GLU:HB2	5:E:491:PRO:HG3	2.01	0.42
6:F:70:SER:O	6:F:71:PRO:C	2.61	0.42
6:F:143:LEU:HD21	6:F:145:ASN:HB3	1.97	0.42
6:F:430:ASN:CA	6:F:433:LYS:HB2	2.48	0.42
1:I:66:GLY:HA3	1:I:99:THR:HG22	2.01	0.42
2:J:120:ILE:HG23	2:J:124:TYR:CE1	2.54	0.42
2:J:287:ARG:H	2:J:287:ARG:HG2	1.58	0.42
4:L:200:VAL:HA	4:L:381:GLY:O	2.18	0.42
4:L:447:LEU:C	4:L:449:VAL:H	2.26	0.42
4:L:518:ILE:HA	4:L:521:ILE:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:16:ASP:O	6:N:20:LYS:N	2.46	0.42
6:N:195:GLU:HG2	6:N:197:MET:HE1	2.01	0.42
6:N:233:VAL:HG12	6:N:294:VAL:CG2	2.49	0.42
6:N:419:TYR:O	6:N:422:LEU:HB2	2.19	0.42
6:N:430:ASN:CA	6:N:433:LYS:HB2	2.48	0.42
7:O:36:VAL:CG2	7:O:37:GLN:N	2.83	0.42
7:O:178:PHE:CZ	7:O:389:VAL:HG13	2.53	0.42
8:P:48:PRO:HG3	8:P:169:SER:HA	2.02	0.42
1:a:1115:LEU:HD23	1:a:1115:LEU:HA	1.80	0.42
1:a:1296:VAL:O	1:a:1297:LEU:HD23	2.19	0.42
2:b:1120:ILE:HG23	2:b:1124:TYR:CE1	2.54	0.42
2:b:1490:SER:HB2	2:b:1492:LYS:CE	2.49	0.42
3:c:1224:LEU:C	3:c:1225:LEU:HD23	2.43	0.42
3:c:1229:VAL:HG11	3:c:1234:MET:CE	2.49	0.42
3:c:1355:PHE:HE2	3:c:1366:SER:HB3	1.84	0.42
4:d:1447:LEU:C	4:d:1449:VAL:H	2.26	0.42
5:e:1263:GLY:HA3	5:e:1380:ILE:O	2.19	0.42
5:e:1350:GLU:O	5:e:1353:HIS:N	2.52	0.42
5:e:1412:ASN:C	5:e:1414:MET:H	2.24	0.42
5:e:1476:LEU:HD13	5:e:1476:LEU:HA	1.89	0.42
6:f:1002:SER:HA	6:f:1003:LEU:CB	2.35	0.42
6:f:1124:ILE:HB	6:f:1444:ILE:CD1	2.48	0.42
6:f:1196:ILE:O	6:f:1197:MET:HE3	2.19	0.42
6:f:1233:VAL:HG12	6:f:1294:VAL:CG2	2.49	0.42
7:g:1083:LEU:HA	7:g:1086:ILE:HD11	2.01	0.42
7:g:1113:LYS:O	7:g:1116:LEU:HB2	2.19	0.42
7:g:1234:LYS:HA	7:g:1234:LYS:HD3	1.34	0.42
7:g:1450:PRO:O	7:g:1453:LEU:HB2	2.20	0.42
7:g:1516:LEU:CD2	7:g:1517:ILE:N	2.68	0.42
1:i:1267:PRO:HB2	1:i:1269:GLN:CB	2.49	0.42
1:i:1532:LEU:HD22	1:i:1536:VAL:CG2	2.48	0.42
2:j:1236:THR:HA	2:j:1287:ARG:CD	2.50	0.42
2:j:1294:PRO:HA	2:j:1297:LEU:HB2	2.00	0.42
2:j:1319:LEU:HD23	2:j:1319:LEU:O	2.19	0.42
3:k:1061:GLY:CA	3:k:1094:THR:HG22	2.49	0.42
3:k:1229:VAL:HG11	3:k:1234:MET:CE	2.49	0.42
4:l:1221:LYS:HE3	4:l:1306:SER:CB	2.49	0.42
4:l:1389:GLU:O	4:l:1392:ARG:HD3	2.19	0.42
4:l:1439:ILE:O	4:l:1439:ILE:HG22	2.19	0.42
4:l:1485:ARG:H	4:l:1485:ARG:CD	2.27	0.42
6:n:1171:THR:N	6:n:1172:PRO:HD2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:n:1196:ILE:O	6:n:1197:MET:HE3	2.19	0.42
6:n:1234:LEU:HD12	6:n:1280:LEU:HD11	2.00	0.42
6:n:1503:ILE:O	6:n:1503:ILE:HG22	2.18	0.42
8:p:1015:LYS:HG3	8:p:1016:GLN:H	1.83	0.42
8:p:1137:PHE:HE2	8:p:1434:ILE:HA	1.84	0.42
1:A:17:GLY:HA2	1:A:547:VAL:HA	2.01	0.42
1:A:478:ARG:O	1:A:479:SER:C	2.62	0.42
1:A:482:ALA:O	1:A:485:GLN:O	2.37	0.42
2:B:236:THR:HA	2:B:287:ARG:CD	2.50	0.42
2:B:317:LEU:C	2:B:319:LEU:H	2.28	0.42
3:C:228:ASP:OD2	3:C:229:VAL:N	2.53	0.42
3:C:291:ARG:N	3:C:292:PRO:CD	2.80	0.42
4:D:72:HIS:CD2	8:H:15:LYS:NZ	2.87	0.42
4:D:205:ASP:C	4:D:207:THR:H	2.28	0.42
4:D:232:ALA:O	4:D:234:ILE:HD12	2.19	0.42
4:D:254:VAL:HG22	8:H:265:VAL:CA	2.34	0.42
5:E:273:THR:HG21	5:E:364:PRO:CA	2.47	0.42
6:F:527:LEU:HD23	6:F:527:LEU:HA	1.71	0.42
7:G:236:PHE:O	7:G:239:PRO:HD3	2.19	0.42
7:G:236:PHE:O	7:G:239:PRO:HG3	2.19	0.42
8:H:35:ILE:CD1	8:H:82:VAL:HA	2.49	0.42
8:H:338:ALA:N	8:H:353:GLY:HA3	2.33	0.42
1:I:109:LEU:O	1:I:110:LYS:C	2.62	0.42
1:I:363:GLN:HE21	1:I:363:GLN:HB2	1.66	0.42
2:J:226:ILE:HG13	2:J:282:ASN:OD1	2.18	0.42
2:J:490:SER:HB2	2:J:492:LYS:CE	2.49	0.42
2:J:513:ASN:O	2:J:514:ILE:CD1	2.46	0.42
3:K:61:GLY:CA	3:K:94:THR:HG22	2.49	0.42
3:K:229:VAL:HG11	3:K:234:MET:CE	2.49	0.42
5:M:297:LYS:HA	5:M:297:LYS:HD2	1.66	0.42
5:M:320:VAL:HG22	5:M:341:PRO:CD	2.40	0.42
7:O:86:ILE:HG13	7:O:86:ILE:H	1.58	0.42
7:O:346:LEU:HD23	7:O:346:LEU:N	2.33	0.42
8:P:35:ILE:HD13	8:P:82:VAL:HG22	2.00	0.42
8:P:177:ILE:O	8:P:181:LEU:HD12	2.19	0.42
8:P:486:GLU:N	8:P:487:PRO:HA	2.34	0.42
1:a:1091:ASP:HA	1:a:1095:GLY:HA2	2.00	0.42
1:a:1431:ILE:HD12	1:a:1431:ILE:HA	1.94	0.42
1:a:1460:LYS:O	1:a:1464:VAL:HG23	2.18	0.42
4:d:1094:THR:O	4:d:1096:VAL:N	2.52	0.42
4:d:1518:ILE:HA	4:d:1521:ILE:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1521:ILE:CD1	7:g:1062:ILE:HD12	2.46	0.42
5:e:1485:GLU:HB2	5:e:1491:PRO:HG3	2.01	0.42
6:f:1491:VAL:HG12	6:f:1492:ASP:H	1.82	0.42
7:g:1139:LYS:CB	7:g:1420:VAL:HG12	2.49	0.42
7:g:1220:PHE:C	7:g:1222:LYS:H	2.26	0.42
7:g:1282:LEU:HD12	7:g:1283:ARG:N	2.34	0.42
8:h:1035:ILE:CD1	8:h:1082:VAL:HA	2.49	0.42
8:h:1463:LEU:CD1	9:h:1601:ADP:H8	2.32	0.42
1:i:1296:VAL:O	1:i:1297:LEU:HD23	2.19	0.42
1:i:1396:ASP:O	1:i:1399:GLU:HB3	2.19	0.42
2:j:1159:THR:CG2	2:j:1487:ILE:HA	2.50	0.42
3:k:1050:ASP:OD1	3:k:1054:GLY:HA3	2.18	0.42
3:k:1516:SER:C	3:k:1518:CYS:H	2.27	0.42
4:l:1521:ILE:CG2	7:o:1051:ILE:HA	2.37	0.42
5:m:1477:ASP:O	5:m:1480:PRO:HD2	2.19	0.42
6:n:1433:LYS:HB3	6:n:1444:ILE:HG13	2.00	0.42
7:o:1113:LYS:O	7:o:1116:LEU:HB2	2.19	0.42
7:o:1189:LEU:CB	7:o:1190:ASP:HB3	2.46	0.42
7:o:1282:LEU:HD12	7:o:1283:ARG:N	2.34	0.42
1:A:183:ALA:CB	1:A:383:SER:HB2	2.47	0.42
1:A:281:VAL:O	1:A:285:VAL:HG23	2.19	0.42
1:A:301:GLY:HA2	1:A:320:ARG:H	1.84	0.42
2:B:218:PHE:HA	2:B:304:ASN:O	2.19	0.42
2:B:326:VAL:HG11	3:C:304:LEU:HD13	2.01	0.42
2:B:372:ALA:HA	6:F:519:GLY:HA2	2.01	0.42
4:D:77:MET:O	4:D:81:VAL:HG23	2.18	0.42
6:F:6:LEU:HD12	6:F:7:ASN:H	1.85	0.42
6:F:136:PHE:O	6:F:138:ILE:HG13	2.19	0.42
6:F:209:PHE:CE2	6:F:376:CYS:SG	2.97	0.42
6:F:433:LYS:CG	6:F:444:ILE:HG13	2.48	0.42
6:F:485:GLU:O	6:F:488:TYR:N	2.53	0.42
8:H:137:PHE:HE2	8:H:434:ILE:HA	1.84	0.42
8:H:306:GLY:O	8:H:310:LEU:HB2	2.20	0.42
1:I:17:GLY:HA2	1:I:547:VAL:HA	2.01	0.42
1:I:133:LEU:HG	1:I:532:LEU:HD12	2.01	0.42
1:I:296:VAL:O	1:I:297:LEU:HD23	2.19	0.42
1:I:301:GLY:HA2	1:I:320:ARG:H	1.84	0.42
2:J:76:VAL:O	2:J:79:ASN:HB2	2.20	0.42
3:K:75:ALA:C	3:K:77:SER:N	2.77	0.42
3:K:228:ASP:OD2	3:K:229:VAL:N	2.52	0.42
3:K:320:VAL:HG12	3:K:324:ASP:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:94:THR:O	4:L:96:VAL:N	2.52	0.42
4:L:242:SER:HB3	4:L:298:ASN:HB2	2.00	0.42
4:L:248:THR:O	4:L:250:ASN:OD1	2.37	0.42
4:L:325:SER:HB3	4:L:332:PRO:CG	2.49	0.42
5:M:252:PRO:C	5:M:254:MET:O	2.63	0.42
6:N:238:VAL:HG22	6:N:239:SER:H	1.83	0.42
6:N:433:LYS:HB3	6:N:444:ILE:HG13	2.00	0.42
7:O:448:VAL:HA	7:O:451:ARG:HB2	2.00	0.42
8:P:296:VAL:HG11	8:P:299:ILE:HD11	2.01	0.42
8:P:335:VAL:HG13	8:P:379:SER:CB	2.46	0.42
1:a:1025:ILE:HG22	1:a:1026:ARG:N	2.32	0.42
1:a:1143:VAL:CG1	1:a:1420:PRO:HD2	2.50	0.42
1:a:1281:VAL:O	1:a:1285:VAL:HG23	2.19	0.42
1:a:1478:ARG:O	1:a:1479:SER:C	2.62	0.42
2:b:1060:GLY:H	2:b:1093:THR:HG22	1.83	0.42
2:b:1294:PRO:HA	2:b:1297:LEU:HB2	2.00	0.42
3:c:1516:SER:C	3:c:1518:CYS:H	2.27	0.42
4:d:1234:ILE:HD12	4:d:1234:ILE:N	2.35	0.42
4:d:1325:SER:HB3	4:d:1332:PRO:CG	2.49	0.42
4:d:1389:GLU:O	4:d:1392:ARG:HD3	2.19	0.42
5:e:1352:GLU:CD	5:e:1353:HIS:H	2.26	0.42
6:f:1147:ARG:O	6:f:1147:ARG:HG3	2.20	0.42
7:g:1104:LEU:O	7:g:1108:LEU:HB2	2.20	0.42
7:g:1132:ALA:HB2	7:g:1439:ILE:HD13	2.01	0.42
8:h:1467:ALA:HB2	8:h:1493:ASP:CB	2.49	0.42
2:j:1287:ARG:H	2:j:1287:ARG:HG2	1.58	0.42
3:k:1034:VAL:HG12	3:k:1035:ILE:N	2.35	0.42
3:k:1495:VAL:HG23	3:k:1500:TRP:CH2	2.48	0.42
4:l:1205:ASP:C	4:l:1207:THR:N	2.77	0.42
6:n:1324:ASN:HA	6:n:1327:ARG:HB2	2.00	0.42
6:n:1430:ASN:C	6:n:1432:ASN:N	2.78	0.42
7:o:1017:THR:HG21	7:o:1525:THR:O	2.19	0.42
7:o:1055:THR:HG21	7:o:1072:LEU:HD23	2.01	0.42
7:o:1236:PHE:O	7:o:1239:PRO:HG3	2.19	0.42
8:p:1163:ILE:HD11	8:p:1404:GLY:CA	2.50	0.42
8:p:1302:GLY:HA2	8:p:1324:PRO:HD2	2.01	0.42
8:p:1318:ILE:HG22	8:p:1319:LEU:O	2.19	0.42
8:p:1420:LEU:HD23	8:p:1421:PRO:HD2	2.01	0.42
8:p:1523:THR:HA	8:p:1526:PHE:HD2	1.83	0.42
1:A:187:VAL:O	1:A:381:SER:CA	2.67	0.42
1:A:296:VAL:O	1:A:297:LEU:HD23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:159:THR:CG2	2:B:487:ILE:HA	2.50	0.42
2:B:415:VAL:HB	2:B:434:ALA:HB2	2.02	0.42
3:C:243:VAL:O	3:C:348:VAL:HG13	2.19	0.42
3:C:298:GLU:HG3	3:C:325:ASN:HD22	1.84	0.42
3:C:332:THR:HB	3:C:349:GLY:CA	2.49	0.42
3:C:415:GLY:HA3	3:C:501:GLU:OE1	2.20	0.42
4:D:389:GLU:O	4:D:392:ARG:HD3	2.19	0.42
5:E:269:LEU:HD22	5:E:269:LEU:H	1.84	0.42
5:E:350:GLU:O	5:E:353:HIS:N	2.52	0.42
5:E:445:ALA:CB	5:E:510:ILE:O	2.67	0.42
6:F:124:ILE:HB	6:F:444:ILE:CD1	2.48	0.42
6:F:147:ARG:HG3	6:F:147:ARG:O	2.20	0.42
1:I:431:ILE:HG21	1:I:482:ALA:HA	2.01	0.42
1:I:532:LEU:HD22	1:I:536:VAL:CG2	2.48	0.42
2:J:132:LEU:HD21	2:J:495:ARG:CG	2.43	0.42
2:J:213:ILE:HG23	2:J:354:LEU:HD21	2.02	0.42
2:J:404:GLY:HA2	9:J:601:ADP:N3	2.34	0.42
3:K:129:LEU:HD21	3:K:511:LYS:HA	2.00	0.42
3:K:213:ASP:CG	3:K:214:VAL:N	2.78	0.42
3:K:243:VAL:O	3:K:348:VAL:HG13	2.19	0.42
3:K:286:GLN:OE1	3:K:340:VAL:HG22	2.19	0.42
4:L:439:ILE:O	4:L:439:ILE:HG22	2.19	0.42
4:L:486:ARG:C	4:L:488:GLY:H	2.28	0.42
6:N:171:THR:N	6:N:172:PRO:HD2	2.33	0.42
7:O:41:LYS:N	7:O:42:PRO:HD2	2.34	0.42
7:O:455:GLU:CG	7:O:461:ALA:HB2	2.49	0.42
8:P:77:ILE:H	8:P:77:ILE:CD1	2.26	0.42
8:P:269:ASN:O	8:P:272:GLU:HB2	2.19	0.42
1:a:1066:GLY:HA3	1:a:1099:THR:HG22	2.01	0.42
1:a:1133:LEU:HG	1:a:1532:LEU:HD12	2.01	0.42
2:b:1047:GLN:HE22	2:b:1053:THR:N	2.17	0.42
2:b:1231:ILE:HG22	2:b:1232:LEU:H	1.83	0.42
3:c:1061:GLY:CA	3:c:1094:THR:HG22	2.49	0.42
3:c:1213:ASP:CG	3:c:1214:VAL:N	2.78	0.42
4:d:1292:ILE:CG1	4:d:1293:LEU:HA	2.47	0.42
4:d:1486:ARG:C	4:d:1488:GLY:H	2.28	0.42
5:e:1252:PRO:C	5:e:1254:MET:O	2.63	0.42
5:e:1310:ILE:HG23	5:e:1335:LEU:HD23	2.01	0.42
5:e:1362:ILE:HD12	5:e:1362:ILE:N	2.34	0.42
6:f:1420:ILE:O	6:f:1424:ARG:N	2.40	0.42
7:g:1073:LEU:C	7:g:1073:LEU:HD13	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:h:1335:VAL:HG23	8:h:1381:THR:OG1	2.19	0.42
1:i:1133:LEU:HD13	1:i:1133:LEU:C	2.45	0.42
1:i:1335:ALA:HB2	1:i:1356:GLY:CA	2.49	0.42
1:i:1478:ARG:O	1:i:1479:SER:C	2.62	0.42
2:j:1070:ASP:HB3	6:n:1005:LEU:HD22	1.93	0.42
2:j:1213:ILE:HG23	2:j:1354:LEU:HD21	2.02	0.42
3:k:1140:SER:HB2	3:k:1411:SER:HB2	2.02	0.42
3:k:1182:VAL:HG23	3:k:1184:LYS:HG3	2.02	0.42
3:k:1250:LEU:CG	3:k:1301:VAL:HB	2.49	0.42
4:l:1038:SER:HB3	4:l:1046:LYS:HZ3	1.84	0.42
4:l:1058:SER:HA	4:l:1392:ARG:HH12	1.84	0.42
4:l:1205:ASP:C	4:l:1207:THR:H	2.28	0.42
5:m:1263:GLY:HA3	5:m:1380:ILE:O	2.20	0.42
6:n:1331:VAL:O	6:n:1332:THR:CB	2.68	0.42
6:n:1429:ALA:O	6:n:1432:ASN:HB2	2.19	0.42
6:n:1485:GLU:O	6:n:1488:TYR:N	2.53	0.42
7:o:1516:LEU:CD2	7:o:1517:ILE:N	2.68	0.42
8:p:1269:ASN:O	8:p:1272:GLU:HB2	2.19	0.42
1:A:550:GLU:HA	1:A:551:PRO:HD3	1.88	0.42
3:C:75:ALA:C	3:C:77:SER:N	2.77	0.42
3:C:140:SER:HB2	3:C:411:SER:HB2	2.02	0.42
4:D:94:THR:O	4:D:96:VAL:N	2.52	0.42
5:E:476:LEU:HD13	5:E:476:LEU:HA	1.89	0.42
6:F:11:GLU:N	6:F:11:GLU:OE2	2.52	0.42
6:F:230:ASN:N	6:F:353:LEU:HD23	2.35	0.42
7:G:83:LEU:HA	7:G:86:ILE:HD11	2.01	0.42
7:G:220:PHE:C	7:G:222:LYS:H	2.26	0.42
8:H:177:ILE:O	8:H:181:LEU:HD12	2.20	0.42
8:H:296:VAL:HG11	8:H:299:ILE:HD11	2.01	0.42
8:H:318:ILE:HG22	8:H:319:LEU:O	2.19	0.42
1:I:115:LEU:HA	1:I:115:LEU:HD23	1.80	0.42
1:I:351:GLU:H	1:I:354:TYR:HD2	1.68	0.42
2:J:116:HIS:CE1	2:J:118:GLN:CB	2.99	0.42
2:J:231:ILE:HG22	2:J:232:LEU:H	1.83	0.42
2:J:415:VAL:HB	2:J:434:ALA:HB2	2.02	0.42
3:K:9:ASN:HB2	8:P:78:VAL:CG1	2.50	0.42
4:L:178:VAL:HG11	4:L:401:ILE:CD1	2.48	0.42
4:L:234:ILE:HD12	4:L:234:ILE:N	2.35	0.42
4:L:521:ILE:HD13	7:O:52:LEU:HB2	2.00	0.42
5:M:263:GLY:HA3	5:M:380:ILE:O	2.20	0.42
5:M:269:LEU:HD22	5:M:269:LEU:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:280:LYS:HA	5:M:281:PRO:HD3	1.80	0.42
5:M:445:ALA:CB	5:M:510:ILE:O	2.67	0.42
5:M:466:GLN:HG3	5:M:467:TYR:CD2	2.54	0.42
6:N:6:LEU:HD13	6:N:7:ASN:H	1.85	0.42
6:N:196:ILE:O	6:N:197:MET:HE3	2.20	0.42
7:O:113:LYS:O	7:O:116:LEU:HB2	2.19	0.42
7:O:282:LEU:HD12	7:O:283:ARG:N	2.34	0.42
8:P:94:ILE:H	8:P:94:ILE:HG13	1.50	0.42
8:P:163:ILE:HD11	8:P:404:GLY:CA	2.50	0.42
8:P:311:HIS:CG	8:P:312:TYR:N	2.86	0.42
1:a:1219:VAL:HG12	1:a:1221:GLY:N	2.35	0.42
1:a:1267:PRO:CA	1:a:1268:GLU:CB	2.95	0.42
1:a:1267:PRO:HB2	1:a:1269:GLN:CB	2.49	0.42
1:a:1351:GLU:H	1:a:1354:TYR:HD2	1.68	0.42
1:a:1431:ILE:HG21	1:a:1482:ALA:HA	2.01	0.42
2:b:1030:GLY:HA2	2:b:1033:VAL:HG21	1.98	0.42
2:b:1459:LEU:CD1	2:b:1471:GLY:O	2.68	0.42
2:b:1474:LEU:N	2:b:1474:LEU:HD23	2.35	0.42
4:d:1200:VAL:HA	4:d:1381:GLY:O	2.18	0.42
5:e:1314:LYS:HZ1	5:e:1338:ASN:HA	1.84	0.42
5:e:1338:ASN:HB2	5:e:1340:LEU:HD22	2.01	0.42
5:e:1431:ARG:HA	5:e:1434:VAL:HG12	2.00	0.42
5:e:1497:THR:O	5:e:1501:LYS:HG2	2.20	0.42
6:f:1003:LEU:CA	6:f:1005:LEU:HG	2.42	0.42
6:f:1136:PHE:O	6:f:1138:ILE:HG13	2.19	0.42
6:f:1422:LEU:CD1	6:f:1517:ILE:HD11	2.50	0.42
6:f:1426:LEU:C	6:f:1426:LEU:HD13	2.44	0.42
7:g:1017:THR:HG21	7:g:1525:THR:O	2.19	0.42
8:h:1146:VAL:HG22	8:h:1147:VAL:N	2.35	0.42
1:i:1109:LEU:O	1:i:1110:LYS:C	2.62	0.42
2:j:1027:ILE:HG21	2:j:1104:ARG:HD2	2.02	0.42
2:j:1058:ASN:HD21	2:j:1093:THR:HG21	1.84	0.42
2:j:1160:THR:HG21	2:j:1390:VAL:HG11	2.01	0.42
2:j:1245:ILE:O	2:j:1246:PHE:HB3	2.19	0.42
2:j:1317:LEU:C	2:j:1319:LEU:H	2.28	0.42
3:k:1099:LEU:O	3:k:1100:ALA:C	2.62	0.42
3:k:1282:LEU:O	3:k:1286:GLN:HG3	2.19	0.42
5:m:1088:ALA:HB1	5:m:1109:LYS:HZ2	1.80	0.42
5:m:1162:GLU:C	5:m:1164:THR:H	2.27	0.42
5:m:1348:GLY:O	5:m:1351:LEU:HD12	2.17	0.42
7:o:1051:ILE:HD12	7:o:1069:ILE:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1130:ARG:HA	7:o:1130:ARG:HE	1.84	0.42
7:o:1139:LYS:CB	7:o:1420:VAL:HG12	2.49	0.42
1:A:12:THR:HA	1:A:13:LEU:HA	1.69	0.42
2:B:49:ALA:HB2	6:F:536:ALA:O	2.20	0.42
2:B:60:GLY:H	2:B:93:THR:HG22	1.84	0.42
3:C:34:VAL:HG12	3:C:35:ILE:N	2.35	0.42
3:C:104:LEU:CD2	3:C:517:ALA:HA	2.49	0.42
3:C:268:ASP:O	3:C:269:TRP:C	2.62	0.42
3:C:320:VAL:HG12	3:C:324:ASP:HB3	2.02	0.42
4:D:221:LYS:HE2	4:D:221:LYS:HB2	1.94	0.42
4:D:221:LYS:HE3	4:D:306:SER:CB	2.49	0.42
4:D:369:ASN:C	4:D:371:ALA:H	2.27	0.42
4:D:499:GLN:HA	4:D:500:PRO:HD3	1.86	0.42
5:E:116:GLY:HA3	5:E:428:CYS:CB	2.50	0.42
6:F:53:ILE:O	6:F:53:ILE:CG1	2.68	0.42
6:F:456:LYS:O	6:F:460:LYS:N	2.53	0.42
7:G:450:PRO:O	7:G:453:LEU:HB2	2.20	0.42
8:H:24:ALA:HB2	8:H:531:ALA:O	2.20	0.42
1:I:129:PHE:N	1:I:129:PHE:HD2	2.17	0.42
2:J:27:ILE:HG21	2:J:104:ARG:HD2	2.02	0.42
2:J:47:GLN:HE22	2:J:52:ASN:C	2.28	0.42
2:J:232:LEU:CD1	2:J:234:ALA:HB2	2.50	0.42
2:J:236:THR:HA	2:J:287:ARG:CD	2.50	0.42
2:J:511:VAL:O	2:J:513:ASN:N	2.49	0.42
3:K:47:MET:CE	3:K:49:LEU:HD21	2.49	0.42
3:K:104:LEU:CD2	3:K:517:ALA:HA	2.49	0.42
3:K:170:LYS:C	3:K:170:LYS:CD	2.92	0.42
3:K:207:GLU:HB2	3:K:380:MET:HA	2.02	0.42
5:M:362:ILE:N	5:M:362:ILE:HD12	2.34	0.42
6:N:56:THR:HB	6:N:390:GLN:HE22	1.79	0.42
7:O:30:ILE:O	7:O:33:CYS:HB3	2.19	0.42
8:P:291:ILE:HD12	8:P:347:PRO:HG3	1.97	0.42
8:P:420:LEU:HD23	8:P:421:PRO:CD	2.50	0.42
8:P:459:VAL:O	8:P:462:THR:HG22	2.20	0.42
1:a:1224:LEU:CD1	1:a:1226:CYS:CB	2.90	0.42
1:a:1335:ALA:HB2	1:a:1356:GLY:CA	2.49	0.42
2:b:1058:ASN:HD21	2:b:1093:THR:HG21	1.84	0.42
2:b:1206:SER:HB2	2:b:1368:VAL:HG22	2.00	0.42
3:c:1085:GLN:NE2	3:c:1508:GLN:OE1	2.53	0.42
3:c:1099:LEU:O	3:c:1100:ALA:C	2.62	0.42
3:c:1207:GLU:HB2	3:c:1380:MET:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1178:VAL:HG11	4:d:1401:ILE:CD1	2.48	0.42
6:f:1070:SER:O	6:f:1071:PRO:C	2.61	0.42
6:f:1331:VAL:O	6:f:1332:THR:CB	2.68	0.42
7:g:1036:VAL:CG2	7:g:1037:GLN:N	2.83	0.42
7:g:1101:VAL:HG22	7:g:1506:ALA:HA	2.01	0.42
8:h:1035:ILE:HD13	8:h:1082:VAL:HG22	2.00	0.42
8:h:1048:PRO:CA	8:h:1169:SER:O	2.68	0.42
8:h:1226:MET:HE2	8:h:1228:PHE:CE2	2.55	0.42
8:h:1293:ASP:C	8:h:1295:GLY:H	2.27	0.42
1:i:1187:VAL:O	1:i:1381:SER:CA	2.67	0.42
1:i:1344:LEU:HD12	1:i:1345:GLU:H	1.85	0.42
1:i:1363:GLN:HE21	1:i:1363:GLN:HB2	1.66	0.42
1:i:1541:ILE:HD13	5:m:1073:ILE:HG13	2.01	0.42
2:j:1032:LEU:CD1	6:n:1532:GLU:CD	2.93	0.42
2:j:1076:VAL:O	2:j:1079:ASN:HB2	2.20	0.42
2:j:1127:ALA:HB1	2:j:1430:VAL:HG13	2.02	0.42
3:k:1320:VAL:HG12	3:k:1324:ASP:HB3	2.02	0.42
4:l:1524:ILE:CB	7:o:1052:LEU:O	2.68	0.42
5:m:1268:LYS:O	5:m:1319:ASP:N	2.53	0.42
6:n:1195:GLU:HG2	6:n:1197:MET:HE1	2.01	0.42
6:n:1233:VAL:HG12	6:n:1294:VAL:CG2	2.49	0.42
6:n:1422:LEU:CD1	6:n:1517:ILE:HD11	2.50	0.42
7:o:1073:LEU:C	7:o:1073:LEU:HD13	2.44	0.42
7:o:1101:VAL:HG22	7:o:1506:ALA:HA	2.01	0.42
7:o:1204:ILE:HA	7:o:1205:PRO:HD3	1.79	0.42
1:A:91:ASP:HA	1:A:95:GLY:HA2	2.00	0.42
1:A:143:VAL:CG1	1:A:420:PRO:HD2	2.50	0.42
1:A:335:ALA:HB2	1:A:356:GLY:CA	2.49	0.42
2:B:120:ILE:HG23	2:B:124:TYR:CE1	2.54	0.42
2:B:243:VAL:CG1	2:B:245:ILE:HG13	2.49	0.42
2:B:507:VAL:HG21	3:C:388:ILE:HG12	2.01	0.42
2:B:513:ASN:C	2:B:514:ILE:HD13	2.36	0.42
3:C:84:THR:O	3:C:85:GLN:C	2.60	0.42
3:C:182:VAL:HG23	3:C:184:LYS:HG3	2.02	0.42
3:C:207:GLU:HB2	3:C:380:MET:HA	2.02	0.42
3:C:286:GLN:OE1	3:C:340:VAL:HG22	2.19	0.42
4:D:81:VAL:HG22	7:G:382:ALA:CB	2.49	0.42
4:D:99:LEU:HA	4:D:449:VAL:HG11	2.02	0.42
4:D:439:ILE:O	4:D:439:ILE:HG22	2.19	0.42
4:D:486:ARG:C	4:D:488:GLY:H	2.28	0.42
6:F:454:ILE:O	6:F:457:THR:OG1	2.30	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:35:ILE:HD13	8:H:82:VAL:HG22	2.00	0.42
8:H:420:LEU:HD23	8:H:421:PRO:CD	2.50	0.42
1:I:396:ASP:O	1:I:399:GLU:HB3	2.19	0.42
2:J:161:LEU:HD22	2:J:166:LEU:HD11	2.01	0.42
2:J:424:GLY:O	2:J:427:SER:OG	2.33	0.42
3:K:112:ILE:C	3:K:114:LYS:N	2.74	0.42
3:K:456:LEU:HD22	3:K:456:LEU:HA	1.79	0.42
3:K:527:VAL:HG11	8:P:75:LEU:HD21	2.02	0.42
6:N:320:ALA:O	6:N:321:LYS:C	2.63	0.42
6:N:422:LEU:CD1	6:N:517:ILE:HD11	2.50	0.42
7:O:358:GLY:C	7:O:360:GLU:H	2.28	0.42
8:P:302:GLY:HA2	8:P:324:PRO:HD2	2.01	0.42
8:P:523:THR:HA	8:P:526:PHE:HD2	1.83	0.42
1:a:1133:LEU:HD13	1:a:1133:LEU:C	2.45	0.42
3:c:1075:ALA:C	3:c:1077:SER:N	2.77	0.42
3:c:1170:LYS:C	3:c:1170:LYS:CD	2.92	0.42
4:d:1038:SER:HB3	4:d:1046:LYS:HZ3	1.85	0.42
4:d:1205:ASP:C	4:d:1207:THR:N	2.77	0.42
5:e:1045:GLU:C	5:e:1047:LYS:N	2.75	0.42
5:e:1268:LYS:O	5:e:1319:ASP:N	2.53	0.42
5:e:1466:GLN:HG3	5:e:1467:TYR:CD2	2.54	0.42
6:f:1430:ASN:C	6:f:1432:ASN:N	2.78	0.42
7:g:1051:ILE:HD12	7:g:1069:ILE:HD11	2.01	0.42
7:g:1165:ALA:CB	7:g:1399:ILE:HG21	2.46	0.42
7:g:1454:CYS:HB2	7:g:1461:ALA:HB1	1.98	0.42
8:h:1163:ILE:HD11	8:h:1404:GLY:CA	2.50	0.42
8:h:1300:VAL:HG11	8:h:1332:LEU:CD2	2.49	0.42
4:l:1176:ASP:HB3	4:l:1209:MET:HE2	2.02	0.42
4:l:1248:THR:O	4:l:1250:ASN:CG	2.63	0.42
4:l:1369:ASN:C	4:l:1371:ALA:N	2.78	0.42
6:n:1068:ILE:HD13	6:n:1074:VAL:HG13	2.02	0.42
6:n:1159:LEU:CA	6:n:1164:ALA:HB2	2.41	0.42
6:n:1356:GLN:HA	6:n:1365:THR:HA	2.02	0.42
6:n:1434:LEU:HD23	6:n:1441:LYS:CB	2.40	0.42
7:o:1236:PHE:O	7:o:1239:PRO:HD3	2.19	0.42
1:A:256:MET:H	7:G:255:ASP:CB	2.32	0.42
2:B:155:HIS:O	2:B:159:THR:HG23	2.20	0.42
3:C:99:LEU:O	3:C:100:ALA:C	2.62	0.42
3:C:103:ILE:CG2	3:C:517:ALA:HB1	2.50	0.42
3:C:213:ASP:CG	3:C:214:VAL:N	2.78	0.42
3:C:241:PRO:O	3:C:350:THR:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:9:ALA:HB1	7:G:76:VAL:H	1.85	0.42
4:D:60:ASP:N	4:D:392:ARG:NH2	2.68	0.42
4:D:205:ASP:C	4:D:207:THR:N	2.77	0.42
4:D:226:PRO:HD2	4:D:311:MET:HG2	2.01	0.42
5:E:125:LEU:C	5:E:127:SER:N	2.78	0.42
5:E:252:PRO:C	5:E:254:MET:O	2.63	0.42
5:E:477:ASP:O	5:E:480:PRO:HD2	2.19	0.42
6:F:171:THR:N	6:F:172:PRO:HD2	2.33	0.42
6:F:196:ILE:O	6:F:197:MET:HE3	2.20	0.42
6:F:356:GLN:HA	6:F:365:THR:HA	2.02	0.42
6:F:430:ASN:C	6:F:432:ASN:N	2.78	0.42
7:G:109:MET:SD	7:G:514:THR:HG21	2.59	0.42
7:G:132:ALA:HB2	7:G:439:ILE:HD13	2.01	0.42
7:G:455:GLU:CG	7:G:461:ALA:HB2	2.49	0.42
1:I:55:ASP:C	1:I:57:ILE:N	2.77	0.42
1:I:335:ALA:HB2	1:I:356:GLY:CA	2.50	0.42
2:J:308:HIS:CE1	2:J:313:GLY:HA3	2.54	0.42
2:J:424:GLY:H	2:J:427:SER:HB3	1.85	0.42
4:L:60:ASP:N	4:L:392:ARG:NH2	2.68	0.42
4:L:113:LYS:HB2	4:L:113:LYS:HE3	1.86	0.42
5:M:268:LYS:O	5:M:319:ASP:N	2.53	0.42
5:M:350:GLU:O	5:M:353:HIS:N	2.52	0.42
6:N:83:GLN:O	6:N:84:ASP:C	2.62	0.42
6:N:243:GLU:OE2	6:N:243:GLU:CA	2.52	0.42
6:N:356:GLN:HA	6:N:365:THR:HA	2.02	0.42
7:O:104:LEU:O	7:O:108:LEU:HB2	2.20	0.42
7:O:409:ILE:CG2	7:O:410:VAL:N	2.82	0.42
8:P:256:ILE:HD11	8:P:308:LEU:HD13	2.02	0.42
2:b:1160:THR:HG21	2:b:1390:VAL:HG11	2.01	0.42
2:b:1236:THR:HA	2:b:1287:ARG:CD	2.50	0.42
2:b:1366:THR:O	2:b:1366:THR:OG1	2.30	0.42
3:c:1034:VAL:HG12	3:c:1035:ILE:N	2.35	0.42
3:c:1241:PRO:O	3:c:1350:THR:HA	2.20	0.42
4:d:1065:LEU:HA	4:d:1065:LEU:HD23	1.83	0.42
4:d:1146:ASP:HB2	4:d:1149:GLN:HB2	2.01	0.42
4:d:1423:ARG:O	4:d:1427:LYS:HG2	2.19	0.42
5:e:1087:GLY:HA3	5:e:1120:THR:HG22	2.01	0.42
5:e:1418:GLU:OE2	5:e:1418:GLU:HA	2.20	0.42
8:h:1048:PRO:HG3	8:h:1169:SER:HA	2.01	0.42
1:i:1129:PHE:N	1:i:1129:PHE:HD2	2.17	0.42
1:i:1219:VAL:HG12	1:i:1221:GLY:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:1345:GLU:HA	1:i:1346:GLY:HA2	1.67	0.42
2:j:1424:GLY:O	2:j:1427:SER:HB3	2.20	0.42
4:l:1233:LYS:C	4:l:1234:ILE:HD12	2.44	0.42
4:l:1248:THR:O	4:l:1250:ASN:OD1	2.37	0.42
5:m:1332:ASN:HA	5:m:1335:LEU:HD12	2.02	0.42
7:o:1083:LEU:HA	7:o:1086:ILE:HD11	2.01	0.42
7:o:1182:CYS:SG	7:o:1183:VAL:N	2.93	0.42
8:p:1420:LEU:HD23	8:p:1421:PRO:CD	2.50	0.42
1:A:73:LEU:O	1:A:74:ASP:OD1	2.36	0.42
1:A:543:THR:O	5:E:72:LYS:HB3	2.20	0.42
2:B:47:GLN:HE22	2:B:53:THR:N	2.17	0.42
2:B:232:LEU:CD1	2:B:234:ALA:HB2	2.50	0.42
2:B:422:ILE:HG22	2:B:424:GLY:CA	2.50	0.42
2:B:459:LEU:CD1	2:B:471:GLY:O	2.68	0.42
4:D:328:LEU:C	4:D:345:ASP:CG	2.88	0.42
5:E:362:ILE:N	5:E:362:ILE:HD12	2.34	0.42
6:F:68:ILE:HD13	6:F:74:VAL:HG13	2.02	0.42
6:F:133:LEU:HD12	6:F:422:LEU:HD11	2.02	0.42
6:F:309:PHE:HB3	6:F:314:ILE:O	2.20	0.42
6:F:422:LEU:CD1	6:F:517:ILE:HD11	2.50	0.42
7:G:83:LEU:HA	7:G:86:ILE:CD1	2.50	0.42
7:G:139:LYS:CB	7:G:420:VAL:HG12	2.49	0.42
8:H:48:PRO:HG3	8:H:169:SER:HA	2.01	0.42
8:H:256:ILE:HD11	8:H:308:LEU:HD13	2.02	0.42
1:I:250:ASN:HD21	1:I:252:GLN:HG2	1.85	0.42
1:I:350:PHE:O	1:I:351:GLU:OE2	2.36	0.42
1:I:549:PRO:HA	5:M:77:PRO:O	2.20	0.42
2:J:57:THR:HG21	2:J:382:ARG:CD	2.46	0.42
2:J:245:ILE:O	2:J:246:PHE:HB3	2.19	0.42
3:K:85:GLN:NE2	3:K:508:GLN:OE1	2.53	0.42
4:L:226:PRO:CD	4:L:311:MET:HG2	2.50	0.42
4:L:232:ALA:O	4:L:234:ILE:HD12	2.19	0.42
4:L:485:ARG:H	4:L:485:ARG:CD	2.27	0.42
5:M:273:THR:HG21	5:M:364:PRO:CA	2.47	0.42
5:M:332:ASN:HA	5:M:335:LEU:HD12	2.02	0.42
6:N:53:ILE:O	6:N:53:ILE:CG1	2.68	0.42
6:N:230:ASN:N	6:N:353:LEU:HD23	2.35	0.42
6:N:309:PHE:HB3	6:N:314:ILE:O	2.20	0.42
7:O:166:MET:O	7:O:171:ILE:HB	2.18	0.42
7:O:182:CYS:SG	7:O:183:VAL:N	2.93	0.42
8:P:226:MET:HE2	8:P:228:PHE:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1351:GLU:N	1:a:1351:GLU:OE2	2.52	0.42
1:a:1396:ASP:O	1:a:1399:GLU:HB3	2.19	0.42
2:b:1155:HIS:O	2:b:1159:THR:HG23	2.20	0.42
2:b:1164:LYS:C	2:b:1166:LEU:N	2.77	0.42
2:b:1213:ILE:HG23	2:b:1354:LEU:HD21	2.01	0.42
3:c:1047:MET:CE	3:c:1049:LEU:HD21	2.49	0.42
3:c:1182:VAL:HG23	3:c:1184:LYS:HG3	2.02	0.42
6:f:1016:ASP:HA	6:f:1019:LEU:HB2	2.02	0.42
6:f:1320:ALA:O	6:f:1321:LYS:C	2.63	0.42
7:g:1083:LEU:HA	7:g:1086:ILE:CD1	2.50	0.42
8:h:1318:ILE:HG22	8:h:1319:LEU:O	2.19	0.42
1:i:1017:GLY:HA2	1:i:1547:VAL:HA	2.01	0.42
1:i:1548:ASP:HA	1:i:1549:PRO:HD3	1.85	0.42
3:k:1152:LYS:HG2	3:k:1176:LEU:HG	2.01	0.42
5:m:1099:GLU:O	5:m:1102:LYS:HB2	2.20	0.42
5:m:1107:LEU:CD2	5:m:1544:LEU:HG	2.35	0.42
5:m:1456:GLU:C	5:m:1458:ALA:H	2.27	0.42
7:o:1104:LEU:O	7:o:1108:LEU:HB2	2.20	0.42
7:o:1358:GLY:C	7:o:1360:GLU:H	2.28	0.42
8:p:1335:VAL:HG23	8:p:1381:THR:OG1	2.19	0.42
1:A:219:VAL:HG12	1:A:221:GLY:N	2.34	0.41
1:A:267:PRO:HB2	1:A:269:GLN:CB	2.49	0.41
2:B:15:ALA:O	2:B:19:ARG:HG2	2.20	0.41
2:B:58:ASN:HD21	2:B:93:THR:HG21	1.84	0.41
2:B:408:GLU:CD	2:B:408:GLU:H	2.28	0.41
3:C:303:ASP:HB3	3:C:304:LEU:H	1.46	0.41
4:D:234:ILE:HD12	4:D:234:ILE:N	2.35	0.41
4:D:379:ILE:HD12	4:D:379:ILE:N	2.33	0.41
7:G:358:GLY:C	7:G:360:GLU:H	2.28	0.41
8:H:186:VAL:HA	8:H:207:ILE:HD11	2.02	0.41
8:H:226:MET:HE2	8:H:228:PHE:CE2	2.55	0.41
1:I:143:VAL:CG1	1:I:420:PRO:HD2	2.50	0.41
1:I:219:VAL:HG12	1:I:221:GLY:N	2.35	0.41
2:J:474:LEU:HG	9:J:601:ADP:C2	2.55	0.41
3:K:298:GLU:HG3	3:K:325:ASN:HD22	1.84	0.41
4:L:248:THR:O	4:L:250:ASN:CG	2.63	0.41
4:L:265:LYS:NZ	8:P:343:ARG:HD3	2.36	0.41
4:L:491:ASN:HB2	4:L:494:GLU:CD	2.45	0.41
6:N:36:ASN:CG	6:N:57:LYS:HZ3	2.24	0.41
6:N:147:ARG:O	6:N:147:ARG:HG3	2.20	0.41
6:N:433:LYS:HG3	6:N:444:ILE:CG2	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:434:LEU:HD23	6:N:441:LYS:CB	2.40	0.41
7:O:145:VAL:O	7:O:409:ILE:N	2.52	0.41
7:O:450:PRO:O	7:O:453:LEU:HB2	2.20	0.41
8:P:146:VAL:C	8:P:148:GLY:N	2.75	0.41
8:P:163:ILE:HG12	8:P:182:VAL:HG11	2.01	0.41
2:b:1243:VAL:CG1	2:b:1245:ILE:HG13	2.49	0.41
2:b:1317:LEU:C	2:b:1319:LEU:H	2.27	0.41
2:b:1415:VAL:HB	2:b:1434:ALA:HB2	2.02	0.41
3:c:1140:SER:HB2	3:c:1411:SER:HB2	2.02	0.41
5:e:1036:GLY:O	6:n:1112:GLY:O	2.37	0.41
6:f:1063:LEU:HD11	6:f:1095:VAL:HG21	2.02	0.41
6:f:1439:LYS:CG	5:m:1034:ASP:CB	2.98	0.41
7:g:1123:HIS:ND1	7:g:1123:HIS:N	2.66	0.41
7:g:1358:GLY:C	7:g:1360:GLU:H	2.28	0.41
7:g:1436:GLN:C	7:g:1438:ILE:H	2.28	0.41
1:i:1307:LEU:O	1:i:1311:VAL:N	2.53	0.41
2:j:1047:GLN:HE22	2:j:1052:ASN:C	2.28	0.41
2:j:1161:LEU:HD22	2:j:1166:LEU:HD11	2.01	0.41
3:k:1228:ASP:OD2	3:k:1229:VAL:N	2.53	0.41
3:k:1298:GLU:HG3	3:k:1325:ASN:HD22	1.84	0.41
6:n:1154:ALA:HB3	6:n:1402:VAL:CG2	2.47	0.41
6:n:1209:PHE:CE2	6:n:1376:CYS:SG	2.97	0.41
8:p:1054:ILE:CG2	8:p:1055:ILE:N	2.83	0.41
8:p:1226:MET:HE2	8:p:1228:PHE:CE2	2.55	0.41
2:B:47:GLN:HE22	2:B:52:ASN:C	2.28	0.41
2:B:164:LYS:C	2:B:166:LEU:N	2.77	0.41
2:B:424:GLY:H	2:B:427:SER:HB3	1.85	0.41
3:C:170:LYS:C	3:C:170:LYS:CD	2.92	0.41
3:C:516:SER:C	3:C:518:CYS:N	2.78	0.41
4:D:65:LEU:HD23	4:D:65:LEU:HA	1.84	0.41
5:E:38:LYS:HD2	5:E:38:LYS:HA	1.70	0.41
5:E:81:ILE:HD12	5:E:81:ILE:N	2.35	0.41
5:E:268:LYS:O	5:E:319:ASP:N	2.53	0.41
5:E:456:GLU:C	5:E:458:ALA:H	2.27	0.41
6:F:63:LEU:HD11	6:F:95:VAL:HG21	2.03	0.41
6:F:533:LEU:HD23	6:F:533:LEU:N	2.35	0.41
7:G:23:LYS:O	7:G:26:ILE:HG22	2.20	0.41
7:G:104:LEU:O	7:G:108:LEU:HB2	2.20	0.41
7:G:182:CYS:SG	7:G:183:VAL:N	2.93	0.41
7:G:396:ALA:O	7:G:400:VAL:HG13	2.20	0.41
1:I:482:ALA:O	1:I:485:GLN:O	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:38:GLY:HA3	2:J:474:LEU:HD12	2.02	0.41
2:J:105:GLU:O	2:J:109:LEU:HD23	2.21	0.41
3:K:174:LEU:HD21	3:K:379:ILE:HG21	2.01	0.41
3:K:355:PHE:HE2	3:K:366:SER:HB3	1.84	0.41
3:K:516:SER:C	3:K:518:CYS:H	2.27	0.41
5:M:55:ARG:HG3	5:M:131:ASP:CG	2.45	0.41
5:M:81:ILE:N	5:M:81:ILE:HD12	2.35	0.41
5:M:125:LEU:C	5:M:127:SER:N	2.78	0.41
5:M:418:GLU:OE2	5:M:418:GLU:HA	2.20	0.41
5:M:456:GLU:C	5:M:458:ALA:H	2.27	0.41
6:N:196:ILE:HG22	6:N:378:ILE:HG23	2.02	0.41
6:N:429:ALA:O	6:N:432:ASN:HB2	2.19	0.41
6:N:456:LYS:O	6:N:460:LYS:N	2.53	0.41
6:N:485:GLU:O	6:N:488:TYR:N	2.53	0.41
7:O:109:MET:SD	7:O:514:THR:HG21	2.59	0.41
1:a:1119:LYS:HE3	1:a:1119:LYS:HB3	1.76	0.41
2:b:1159:THR:CG2	2:b:1487:ILE:HA	2.50	0.41
3:c:1056:VAL:CA	3:c:1057:LEU:HD23	2.50	0.41
3:c:1174:LEU:HD21	3:c:1379:ILE:HG21	2.01	0.41
4:d:1248:THR:O	4:d:1250:ASN:CG	2.63	0.41
4:d:1524:ILE:CG2	7:g:1052:LEU:O	2.68	0.41
5:e:1250:SER:O	5:e:1251:HIS:O	2.38	0.41
6:f:1057:LYS:HZ2	6:f:1057:LYS:HG2	1.62	0.41
6:f:1068:ILE:HD13	6:f:1074:VAL:HG13	2.01	0.41
6:f:1075:LEU:HD23	6:f:1076:ILE:N	2.36	0.41
6:f:1090:GLY:O	6:f:1094:VAL:CG2	2.34	0.41
6:f:1196:ILE:HG22	6:f:1378:ILE:HG23	2.02	0.41
6:f:1456:LYS:O	6:f:1460:LYS:N	2.53	0.41
6:f:1485:GLU:O	6:f:1488:TYR:N	2.53	0.41
7:g:1023:LYS:O	7:g:1026:ILE:HG22	2.20	0.41
8:h:1062:ILE:HG23	8:h:1392:ASN:OD1	2.20	0.41
8:h:1459:VAL:O	8:h:1462:THR:HG22	2.20	0.41
2:j:1232:LEU:C	2:j:1232:LEU:HD13	2.45	0.41
2:j:1474:LEU:HD23	2:j:1474:LEU:N	2.35	0.41
3:k:1129:LEU:HD21	3:k:1511:LYS:HA	2.00	0.41
3:k:1241:PRO:O	3:k:1350:THR:HA	2.20	0.41
4:l:1024:ASN:ND2	4:l:1524:ILE:HD11	2.30	0.41
4:l:1425:LEU:HD12	4:l:1444:ALA:HA	2.03	0.41
5:m:1120:THR:O	5:m:1124:VAL:HG23	2.20	0.41
5:m:1127:SER:OG	5:m:1128:ALA:N	2.53	0.41
5:m:1250:SER:O	5:m:1251:HIS:O	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:m:1252:PRO:C	5:m:1254:MET:O	2.63	0.41
5:m:1472:PHE:HZ	5:m:1542:THR:HG22	1.86	0.41
6:n:1053:ILE:O	6:n:1053:ILE:CG1	2.68	0.41
6:n:1181:VAL:O	6:n:1184:ALA:HB3	2.20	0.41
6:n:1237:ASN:O	6:n:1237:ASN:CG	2.63	0.41
7:o:1041:LYS:N	7:o:1042:PRO:HD2	2.34	0.41
7:o:1449:ILE:CB	7:o:1450:PRO:HD3	2.50	0.41
8:p:1048:PRO:HG3	8:p:1169:SER:HA	2.01	0.41
8:p:1486:GLU:N	8:p:1487:PRO:HA	2.34	0.41
1:A:273:ILE:HG21	5:E:295:TYR:CE2	2.54	0.41
1:A:351:GLU:H	1:A:354:TYR:HD2	1.68	0.41
1:A:498:ARG:O	1:A:499:ASN:HB3	2.20	0.41
2:B:27:ILE:HG21	2:B:104:ARG:HD2	2.02	0.41
2:B:57:THR:HG21	2:B:382:ARG:CD	2.46	0.41
2:B:320:VAL:HG21	2:B:337:LEU:CA	2.51	0.41
2:B:492:LYS:O	2:B:495:ARG:HB3	2.20	0.41
3:C:219:VAL:O	3:C:220:LEU:C	2.64	0.41
3:C:229:VAL:CG1	3:C:230:VAL:N	2.84	0.41
4:D:248:THR:O	4:D:250:ASN:CG	2.63	0.41
4:D:411:ILE:O	4:D:498:LEU:HB3	2.21	0.41
5:E:73:ILE:HG12	5:E:83:ILE:CG1	2.44	0.41
5:E:167:ASP:HB3	5:E:168:ILE:H	1.58	0.41
6:F:221:HIS:HA	6:F:222:PRO:HD3	1.92	0.41
6:F:524:ALA:O	6:F:528:LEU:HG	2.21	0.41
7:G:58:GLN:C	8:P:7:GLN:HE22	2.27	0.41
8:H:54:ILE:CG2	8:H:55:ILE:N	2.83	0.41
8:H:269:ASN:O	8:H:272:GLU:HB2	2.19	0.41
2:J:45:LEU:HD23	2:J:56:VAL:HG13	2.02	0.41
2:J:159:THR:CG2	2:J:487:ILE:HA	2.49	0.41
2:J:160:THR:HG21	2:J:390:VAL:HG11	2.01	0.41
2:J:263:LYS:NZ	3:K:266:GLU:HG2	2.35	0.41
2:J:422:ILE:HG22	2:J:424:GLY:CA	2.50	0.41
2:J:474:LEU:HD23	2:J:474:LEU:N	2.35	0.41
2:J:492:LYS:O	2:J:495:ARG:HB3	2.21	0.41
3:K:103:ILE:CG2	3:K:517:ALA:HB1	2.50	0.41
3:K:140:SER:HB2	3:K:411:SER:HB2	2.02	0.41
3:K:244:VAL:HG22	3:K:348:VAL:HG22	2.03	0.41
3:K:415:GLY:HA3	3:K:501:GLU:OE1	2.20	0.41
4:L:157:SER:C	4:L:159:SER:N	2.79	0.41
4:L:195:ARG:C	4:L:196:LEU:HD23	2.45	0.41
5:M:485:GLU:HB2	5:M:491:PRO:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:133:LEU:HD12	6:N:422:LEU:HD11	2.02	0.41
7:O:23:LYS:O	7:O:26:ILE:HG22	2.20	0.41
7:O:236:PHE:O	7:O:239:PRO:HD3	2.19	0.41
7:O:303:ALA:O	7:O:307:PHE:CD2	2.70	0.41
8:P:24:ALA:HB2	8:P:531:ALA:O	2.20	0.41
8:P:62:ILE:HG23	8:P:392:ASN:OD1	2.20	0.41
8:P:92:GLN:HE21	8:P:92:GLN:HB3	1.63	0.41
8:P:293:ASP:C	8:P:295:GLY:H	2.27	0.41
1:a:1017:GLY:HA2	1:a:1547:VAL:HA	2.01	0.41
1:a:1109:LEU:O	1:a:1110:LYS:C	2.62	0.41
2:b:1043:ASP:O	6:f:1530:CYS:HA	2.20	0.41
2:b:1081:SER:C	2:b:1083:VAL:H	2.28	0.41
2:b:1232:LEU:C	2:b:1232:LEU:HD13	2.45	0.41
2:b:1408:GLU:CD	2:b:1408:GLU:H	2.28	0.41
3:c:1103:ILE:CG2	3:c:1517:ALA:HB1	2.50	0.41
3:c:1230:VAL:O	3:c:1231:HIS:CG	2.74	0.41
3:c:1245:LEU:HA	3:c:1296:ILE:O	2.21	0.41
3:c:1282:LEU:O	3:c:1286:GLN:HG3	2.19	0.41
4:d:1369:ASN:C	4:d:1371:ALA:H	2.27	0.41
4:d:1461:ASN:HD22	4:d:1462:SER:H	1.69	0.41
5:e:1086:ASP:O	5:e:1090:ILE:HG13	2.20	0.41
5:e:1158:ILE:CB	5:e:1539:LEU:HD21	2.51	0.41
5:e:1451:SER:O	5:e:1455:SER:HB2	2.21	0.41
6:f:1309:PHE:HB3	6:f:1314:ILE:O	2.20	0.41
6:f:1533:LEU:N	6:f:1533:LEU:HD23	2.35	0.41
7:g:1449:ILE:CB	7:g:1450:PRO:HD3	2.50	0.41
8:h:1306:GLY:O	8:h:1310:LEU:HB2	2.20	0.41
8:h:1420:LEU:HD23	8:h:1421:PRO:CD	2.50	0.41
8:h:1463:LEU:HD11	9:h:1601:ADP:H8	1.84	0.41
1:i:1133:LEU:HG	1:i:1532:LEU:HD12	2.01	0.41
2:j:1081:SER:C	2:j:1083:VAL:H	2.28	0.41
2:j:1088:VAL:HG12	2:j:1090:ASP:H	1.85	0.41
2:j:1155:HIS:O	2:j:1159:THR:HG23	2.20	0.41
2:j:1232:LEU:CD1	2:j:1234:ALA:HB2	2.50	0.41
2:j:1441:PRO:O	2:j:1442:THR:C	2.64	0.41
2:j:1459:LEU:CD1	2:j:1471:GLY:O	2.68	0.41
3:k:1056:VAL:CA	3:k:1057:LEU:HD23	2.50	0.41
3:k:1085:GLN:NE2	3:k:1508:GLN:OE1	2.53	0.41
4:l:1226:PRO:CD	4:l:1311:MET:HG2	2.50	0.41
4:l:1423:ARG:O	4:l:1427:LYS:HG2	2.19	0.41
4:l:1518:ILE:HA	4:l:1521:ILE:HD12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:m:1116:GLY:HA3	5:m:1428:CYS:CB	2.50	0.41
5:m:1362:ILE:HD12	5:m:1362:ILE:N	2.34	0.41
5:m:1451:SER:O	5:m:1455:SER:HB2	2.20	0.41
6:n:1016:ASP:HA	6:n:1019:LEU:HB2	2.02	0.41
6:n:1048:ASP:CG	6:n:1050:ALA:H	2.29	0.41
7:o:1123:HIS:ND1	7:o:1123:HIS:N	2.65	0.41
7:o:1396:ALA:O	7:o:1400:VAL:HG13	2.20	0.41
1:A:541:ILE:HD11	5:E:83:ILE:HD13	2.02	0.41
2:B:76:VAL:O	2:B:79:ASN:HB2	2.20	0.41
2:B:127:ALA:HB1	2:B:430:VAL:HG13	2.02	0.41
2:B:161:LEU:HD22	2:B:166:LEU:HD11	2.01	0.41
2:B:246:PHE:CD1	2:B:247:GLY:N	2.89	0.41
2:B:326:VAL:O	2:B:327:SER:HB3	2.21	0.41
3:C:230:VAL:O	3:C:231:HIS:CG	2.74	0.41
4:D:157:SER:C	4:D:159:SER:N	2.79	0.41
5:E:99:GLU:O	5:E:102:LYS:HB2	2.20	0.41
6:F:137:LYS:O	6:F:138:ILE:CB	2.68	0.41
6:F:195:GLU:HG2	6:F:197:MET:HE1	2.01	0.41
8:H:146:VAL:HG22	8:H:147:VAL:N	2.35	0.41
1:I:345:GLU:HA	1:I:346:GLY:HA2	1.67	0.41
2:J:246:PHE:CD1	2:J:247:GLY:N	2.89	0.41
2:J:317:LEU:C	2:J:319:LEU:H	2.27	0.41
2:J:408:GLU:CD	2:J:408:GLU:H	2.28	0.41
5:M:86:ASP:O	5:M:90:ILE:HG13	2.20	0.41
5:M:99:GLU:O	5:M:102:LYS:HB2	2.20	0.41
5:M:451:SER:O	5:M:455:SER:HB2	2.20	0.41
6:N:89:ASP:OD1	6:N:90:GLY:N	2.43	0.41
6:N:89:ASP:OD1	9:N:601:ADP:O3B	2.38	0.41
6:N:136:PHE:O	6:N:138:ILE:HG13	2.19	0.41
6:N:167:THR:CB	6:N:169:VAL:N	2.64	0.41
6:N:181:VAL:O	6:N:184:ALA:HB3	2.20	0.41
6:N:415:ALA:HB2	6:N:506:ILE:HD13	2.03	0.41
8:P:35:ILE:CD1	8:P:82:VAL:HA	2.50	0.41
1:a:1209:HIS:HE1	7:g:1089:ALA:CB	2.34	0.41
2:b:1005:ILE:CD1	2:b:1007:GLY:H	2.34	0.41
2:b:1038:GLY:HA3	2:b:1474:LEU:HD12	2.02	0.41
3:c:1184:LYS:HA	3:c:1198:ILE:CA	2.51	0.41
3:c:1244:VAL:HG22	3:c:1348:VAL:HG22	2.03	0.41
3:c:1413:SER:HA	3:c:1414:PRO:HD3	1.90	0.41
3:c:1415:GLY:HA3	3:c:1501:GLU:OE1	2.20	0.41
4:d:1205:ASP:C	4:d:1207:THR:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:1057:VAL:C	5:e:1059:SER:H	2.29	0.41
5:e:1127:SER:OG	5:e:1128:ALA:N	2.53	0.41
5:e:1250:SER:O	5:e:1251:HIS:CG	2.74	0.41
5:e:1273:THR:HG21	5:e:1364:PRO:CA	2.47	0.41
6:f:1181:VAL:O	6:f:1184:ALA:HB3	2.20	0.41
7:g:1516:LEU:HD11	7:g:1517:ILE:CG1	2.48	0.41
8:h:1035:ILE:HG23	8:h:1085:LEU:HD12	2.01	0.41
1:i:1143:VAL:CG1	1:i:1420:PRO:HD2	2.50	0.41
1:i:1301:GLY:HA2	1:i:1320:ARG:H	1.84	0.41
2:j:1032:LEU:HD11	6:n:1532:GLU:OE2	2.19	0.41
2:j:1408:GLU:CD	2:j:1408:GLU:H	2.28	0.41
3:k:1015:THR:C	3:k:1016:THR:O	2.62	0.41
3:k:1213:ASP:CG	3:k:1214:VAL:N	2.78	0.41
3:k:1245:LEU:HA	3:k:1296:ILE:O	2.21	0.41
4:l:1369:ASN:C	4:l:1371:ALA:H	2.27	0.41
4:l:1386:ILE:C	4:l:1388:ASP:N	2.76	0.41
5:m:1055:ARG:HG3	5:m:1131:ASP:CG	2.45	0.41
5:m:1310:ILE:HG23	5:m:1335:LEU:HD23	2.01	0.41
5:m:1418:GLU:OE2	5:m:1418:GLU:HA	2.20	0.41
5:m:1497:THR:O	5:m:1501:LYS:HG2	2.20	0.41
6:n:1063:LEU:HD11	6:n:1095:VAL:HG21	2.02	0.41
6:n:1083:GLN:O	6:n:1084:ASP:C	2.62	0.41
6:n:1533:LEU:HD23	6:n:1533:LEU:N	2.35	0.41
8:p:1153:LYS:HD2	8:p:1153:LYS:N	2.31	0.41
8:p:1177:ILE:O	8:p:1181:LEU:HD12	2.19	0.41
1:A:94:ILE:HG22	1:A:95:GLY:N	2.36	0.41
1:A:156:LEU:HD21	1:A:409:VAL:HG13	2.02	0.41
2:B:45:LEU:HB2	6:F:533:LEU:HB2	2.03	0.41
5:E:310:ILE:HG23	5:E:335:LEU:HD23	2.01	0.41
5:E:352:GLU:H	5:E:352:GLU:HG3	1.59	0.41
6:F:48:ASP:CG	6:F:50:ALA:H	2.29	0.41
6:F:171:THR:O	6:F:175:THR:N	2.45	0.41
6:F:178:VAL:HG11	6:F:402:VAL:HG12	2.03	0.41
6:F:212:GLY:HA2	6:F:370:ASN:OD1	2.21	0.41
6:F:466:PRO:O	6:F:468:ASP:N	2.54	0.41
7:G:452:GLN:O	7:G:456:ASN:N	2.49	0.41
8:H:163:ILE:HG12	8:H:182:VAL:HG11	2.01	0.41
2:J:217:LYS:HB3	2:J:217:LYS:HE2	1.75	0.41
2:J:242:LYS:HD2	2:J:243:VAL:N	2.35	0.41
3:K:182:VAL:HG23	3:K:184:LYS:HG3	2.02	0.41
5:M:116:GLY:HA3	5:M:428:CYS:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:120:THR:O	5:M:124:VAL:HG23	2.20	0.41
6:N:154:ALA:HB3	6:N:402:VAL:CG2	2.47	0.41
6:N:390:GLN:HE21	6:N:390:GLN:HA	1.84	0.41
8:P:473:GLU:C	8:P:476:PRO:HD2	2.45	0.41
1:a:1129:PHE:N	1:a:1129:PHE:HD2	2.17	0.41
1:a:1307:LEU:O	1:a:1311:VAL:N	2.53	0.41
2:b:1326:VAL:O	2:b:1327:SER:HB3	2.21	0.41
4:d:1099:LEU:HA	4:d:1449:VAL:HG11	2.02	0.41
4:d:1183:ASP:O	4:d:1187:LYS:HA	2.21	0.41
4:d:1185:ASN:CB	4:d:1186:SER:CB	2.92	0.41
4:d:1195:ARG:C	4:d:1196:LEU:HD23	2.45	0.41
4:d:1521:ILE:CG2	7:g:1050:ASP:O	2.67	0.41
6:f:1048:ASP:CG	6:f:1050:ALA:H	2.29	0.41
6:f:1114:HIS:HA	6:f:1115:PRO:HD3	1.96	0.41
6:f:1447:PHE:CE1	6:f:1521:THR:HG22	2.56	0.41
7:g:1041:LYS:N	7:g:1042:PRO:HD2	2.34	0.41
7:g:1396:ALA:O	7:g:1400:VAL:HG13	2.20	0.41
8:h:1007:GLN:CG	4:l:1071:LEU:O	2.69	0.41
2:j:1317:LEU:O	2:j:1321:THR:N	2.50	0.41
2:j:1397:GLU:HG2	2:j:1492:LYS:HZ3	1.86	0.41
4:l:1060:ASP:N	4:l:1392:ARG:NH2	2.68	0.41
5:m:1057:VAL:C	5:m:1059:SER:H	2.29	0.41
5:m:1250:SER:O	5:m:1251:HIS:CG	2.74	0.41
5:m:1466:GLN:HG3	5:m:1467:TYR:CD2	2.54	0.41
6:n:1426:LEU:HD22	6:n:1426:LEU:HA	1.86	0.41
6:n:1447:PHE:CE1	6:n:1521:THR:HG22	2.56	0.41
6:n:1533:LEU:C	6:n:1534:LEU:HD23	2.46	0.41
7:o:1455:GLU:CG	7:o:1461:ALA:HB2	2.49	0.41
2:B:45:LEU:HD23	2:B:56:VAL:HG13	2.02	0.41
2:B:57:THR:HB	2:B:379:GLU:HG3	2.03	0.41
2:B:105:GLU:O	2:B:109:LEU:HD23	2.21	0.41
2:B:459:LEU:HD22	2:B:472:LEU:CD1	2.51	0.41
3:C:184:LYS:HA	3:C:198:ILE:CA	2.51	0.41
3:C:355:PHE:HE2	3:C:366:SER:HB3	1.84	0.41
4:D:183:ASP:O	4:D:187:LYS:HA	2.21	0.41
4:D:273:ASN:HD22	7:G:268:GLN:NE2	2.17	0.41
4:D:369:ASN:C	4:D:371:ALA:N	2.78	0.41
5:E:250:SER:O	5:E:251:HIS:O	2.38	0.41
5:E:497:THR:O	5:E:501:LYS:HG2	2.20	0.41
6:F:488:TYR:O	6:F:489:VAL:CG1	2.69	0.41
7:G:28:SER:HA	7:G:31:ASN:OD1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:63:ILE:HD12	8:H:74:GLU:CG	2.45	0.41
8:H:293:ASP:C	8:H:295:GLY:H	2.27	0.41
2:J:116:HIS:HA	2:J:117:PRO:HD3	1.74	0.41
2:J:155:HIS:O	2:J:159:THR:HG23	2.20	0.41
2:J:196:ILE:N	2:J:196:ILE:HD12	2.36	0.41
2:J:459:LEU:CD1	2:J:471:GLY:O	2.68	0.41
3:K:184:LYS:HA	3:K:198:ILE:CA	2.51	0.41
4:L:85:GLN:O	4:L:89:ALA:HB3	2.21	0.41
4:L:183:ASP:O	4:L:187:LYS:HA	2.21	0.41
4:L:198:LYS:H	4:L:198:LYS:CD	2.33	0.41
4:L:461:ASN:HD22	4:L:462:SER:H	1.68	0.41
5:M:38:LYS:HA	5:M:38:LYS:HD2	1.70	0.41
6:N:137:LYS:O	6:N:138:ILE:CB	2.69	0.41
7:O:33:CYS:HA	7:O:83:LEU:CD1	2.51	0.41
7:O:488:ILE:H	7:O:488:ILE:CD1	2.21	0.41
8:P:163:ILE:HD11	8:P:404:GLY:C	2.46	0.41
8:P:455:ALA:O	8:P:458:VAL:HG23	2.21	0.41
1:a:1047:VAL:HG13	7:g:1123:HIS:NE2	2.36	0.41
1:a:1055:ASP:C	1:a:1057:ILE:N	2.77	0.41
1:a:1250:ASN:HD21	1:a:1252:GLN:HG2	1.85	0.41
2:b:1004:GLN:HB2	3:c:1071:ALA:HB3	2.03	0.41
2:b:1045:LEU:HD23	2:b:1056:VAL:HG13	2.02	0.41
2:b:1088:VAL:HG12	2:b:1090:ASP:H	1.86	0.41
2:b:1314:VAL:HG11	3:c:1232:PRO:HD3	2.03	0.41
2:b:1424:GLY:H	2:b:1427:SER:HB3	1.85	0.41
3:c:1298:GLU:HG3	3:c:1325:ASN:HD22	1.84	0.41
4:d:1069:ALA:O	8:h:1016:GLN:HB2	2.20	0.41
4:d:1085:GLN:O	4:d:1089:ALA:HB3	2.21	0.41
4:d:1094:THR:C	4:d:1096:VAL:N	2.79	0.41
4:d:1369:ASN:C	4:d:1371:ALA:N	2.78	0.41
4:d:1461:ASN:CB	4:d:1464:LYS:HG2	2.47	0.41
4:d:1521:ILE:HD11	7:g:1062:ILE:HD12	1.94	0.41
5:e:1125:LEU:C	5:e:1127:SER:N	2.78	0.41
5:e:1332:ASN:HA	5:e:1335:LEU:HD12	2.02	0.41
6:f:1182:TYR:C	6:f:1184:ALA:H	2.28	0.41
6:f:1207:THR:O	6:f:1208:THR:HG23	2.21	0.41
6:f:1237:ASN:O	6:f:1237:ASN:CG	2.63	0.41
7:g:1055:THR:HG21	7:g:1072:LEU:HD23	2.01	0.41
7:g:1170:LEU:O	7:g:1170:LEU:CD2	2.58	0.41
7:g:1356:GLN:HG2	7:g:1361:ARG:HD3	2.03	0.41
7:g:1459:PHE:HA	7:g:1460:ASP:HA	1.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:1109:LEU:HD23	1:i:1109:LEU:HA	1.92	0.41
1:i:1482:ALA:O	1:i:1485:GLN:O	2.37	0.41
2:j:1181:ILE:HG21	2:j:1391:LEU:O	2.21	0.41
2:j:1317:LEU:C	2:j:1319:LEU:N	2.79	0.41
2:j:1415:VAL:HB	2:j:1434:ALA:HB2	2.02	0.41
3:k:1244:VAL:HG22	3:k:1348:VAL:HG22	2.03	0.41
4:l:1234:ILE:HD12	4:l:1234:ILE:N	2.35	0.41
4:l:1464:LYS:O	4:l:1468:GLU:HG3	2.20	0.41
5:m:1158:ILE:CB	5:m:1539:LEU:HD21	2.51	0.41
5:m:1225:LYS:O	5:m:1225:LYS:HG3	2.21	0.41
5:m:1262:GLU:HA	5:m:1263:GLY:HA2	1.67	0.41
6:n:1006:LEU:HD13	6:n:1007:ASN:H	1.85	0.41
6:n:1182:TYR:C	6:n:1184:ALA:H	2.28	0.41
6:n:1221:HIS:HA	6:n:1222:PRO:HD3	1.92	0.41
6:n:1309:PHE:HB3	6:n:1314:ILE:O	2.20	0.41
6:n:1415:ALA:HB2	6:n:1506:ILE:HD13	2.02	0.41
6:n:1420:ILE:O	6:n:1424:ARG:N	2.40	0.41
7:o:1036:VAL:CG2	7:o:1037:GLN:N	2.83	0.41
8:p:1035:ILE:CD1	8:p:1082:VAL:HA	2.49	0.41
8:p:1062:ILE:HG23	8:p:1392:ASN:OD1	2.20	0.41
1:A:344:LEU:HD12	1:A:345:GLU:H	1.85	0.41
2:B:88:VAL:HG12	2:B:90:ASP:H	1.85	0.41
2:B:160:THR:HG21	2:B:390:VAL:HG11	2.01	0.41
2:B:213:ILE:HG23	2:B:354:LEU:HD21	2.01	0.41
2:B:317:LEU:C	2:B:319:LEU:N	2.79	0.41
3:C:244:VAL:HG22	3:C:348:VAL:HG22	2.03	0.41
4:D:79:VAL:C	4:D:81:VAL:H	2.29	0.41
5:E:158:ILE:CB	5:E:539:LEU:HD21	2.51	0.41
5:E:338:ASN:HB2	5:E:340:LEU:HD22	2.02	0.41
5:E:418:GLU:OE2	5:E:418:GLU:HA	2.20	0.41
6:F:105:ALA:O	6:F:107:ARG:N	2.54	0.41
6:F:233:VAL:HG12	6:F:294:VAL:CG2	2.49	0.41
7:G:36:VAL:CG2	7:G:37:GLN:N	2.83	0.41
7:G:41:LYS:N	7:G:42:PRO:HD2	2.34	0.41
7:G:356:GLN:HG2	7:G:361:ARG:HD3	2.03	0.41
7:G:449:ILE:CB	7:G:450:PRO:HD3	2.50	0.41
8:H:62:ILE:HG23	8:H:392:ASN:OD1	2.20	0.41
8:H:92:GLN:HE21	8:H:92:GLN:HB3	1.63	0.41
8:H:459:VAL:HB	8:H:460:PRO:HD3	2.02	0.41
8:H:473:GLU:C	8:H:476:PRO:HD2	2.45	0.41
8:H:487:PRO:HA	8:H:488:GLY:HA3	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:133:LEU:C	1:I:133:LEU:HD13	2.45	0.41
1:I:494:ARG:CA	1:I:495:ARG:C	2.92	0.41
1:I:498:ARG:O	1:I:499:ASN:HB3	2.20	0.41
2:J:232:LEU:HD13	2:J:232:LEU:C	2.45	0.41
3:K:230:VAL:O	3:K:231:HIS:CG	2.74	0.41
4:L:79:VAL:C	4:L:81:VAL:H	2.29	0.41
4:L:176:ASP:HB3	4:L:209:MET:HE2	2.02	0.41
4:L:247:ASP:CG	7:O:250:LEU:HD23	2.45	0.41
4:L:464:LYS:O	4:L:468:GLU:HG3	2.20	0.41
5:M:84:THR:HG21	5:M:421:ARG:HD3	2.03	0.41
5:M:107:LEU:CD2	5:M:544:LEU:HG	2.34	0.41
6:N:63:LEU:HD11	6:N:95:VAL:HG21	2.02	0.41
6:N:207:THR:O	6:N:208:THR:HG23	2.21	0.41
6:N:447:PHE:CE1	6:N:521:THR:HG22	2.56	0.41
7:O:356:GLN:HG2	7:O:361:ARG:HD3	2.03	0.41
8:P:294:MET:HE3	8:P:294:MET:HB3	1.98	0.41
2:b:1061:ALA:HB2	2:b:1085:ASP:HB2	2.02	0.41
2:b:1492:LYS:O	2:b:1495:ARG:HB3	2.20	0.41
3:c:1228:ASP:OD2	3:c:1229:VAL:N	2.53	0.41
3:c:1240:ASN:HA	3:c:1352:CYS:O	2.21	0.41
4:d:1176:ASP:HB3	4:d:1209:MET:HE2	2.02	0.41
4:d:1425:LEU:HD12	4:d:1444:ALA:HA	2.02	0.41
5:e:1084:THR:HG21	5:e:1421:ARG:HD3	2.03	0.41
5:e:1099:GLU:O	5:e:1102:LYS:HB2	2.20	0.41
5:e:1262:GLU:HA	5:e:1263:GLY:HA2	1.67	0.41
5:e:1412:ASN:O	5:e:1413:LYS:CB	2.69	0.41
6:f:1133:LEU:HD12	6:f:1422:LEU:HD11	2.02	0.41
6:f:1195:GLU:HG2	6:f:1197:MET:HE1	2.01	0.41
6:f:1198:GLN:HE21	6:f:1198:GLN:H	1.66	0.41
6:f:1221:HIS:HA	6:f:1222:PRO:HD3	1.92	0.41
6:f:1230:ASN:N	6:f:1353:LEU:HD23	2.35	0.41
6:f:1331:VAL:HG23	6:f:1375:SER:OG	2.21	0.41
6:f:1524:ALA:O	6:f:1528:LEU:HG	2.21	0.41
7:g:1182:CYS:SG	7:g:1183:VAL:N	2.93	0.41
8:h:1024:ALA:HB2	8:h:1531:ALA:O	2.20	0.41
8:h:1178:LEU:HD23	8:h:1178:LEU:HA	1.93	0.41
8:h:1473:GLU:C	8:h:1476:PRO:HD2	2.45	0.41
1:i:1351:GLU:H	1:i:1354:TYR:HD2	1.68	0.41
1:i:1498:ARG:O	1:i:1499:ASN:HB3	2.20	0.41
2:j:1105:GLU:O	2:j:1109:LEU:HD23	2.21	0.41
2:j:1326:VAL:O	2:j:1327:SER:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:k:1240:ASN:HA	3:k:1352:CYS:O	2.21	0.41
3:k:1521:LEU:C	3:k:1523:VAL:H	2.26	0.41
4:l:1138:MET:HE3	4:l:1138:MET:HB3	1.88	0.41
4:l:1157:SER:C	4:l:1159:SER:N	2.79	0.41
4:l:1461:ASN:HD22	4:l:1462:SER:H	1.69	0.41
4:l:1486:ARG:C	4:l:1488:GLY:H	2.28	0.41
5:m:1338:ASN:HB2	5:m:1340:LEU:HD22	2.02	0.41
6:n:1141:THR:HG23	6:n:1142:ASN:N	2.36	0.41
6:n:1466:PRO:O	6:n:1468:ASP:N	2.54	0.41
6:n:1488:TYR:O	6:n:1489:VAL:CG1	2.69	0.41
7:o:1033:CYS:HA	7:o:1083:LEU:CD1	2.51	0.41
7:o:1109:MET:SD	7:o:1514:THR:HG21	2.59	0.41
7:o:1232:GLN:HA	7:o:1233:PRO:HD3	1.90	0.41
7:o:1436:GLN:C	7:o:1438:ILE:H	2.29	0.41
8:p:1146:VAL:HG22	8:p:1147:VAL:N	2.35	0.41
8:p:1306:GLY:O	8:p:1310:LEU:HB2	2.20	0.41
8:p:1473:GLU:C	8:p:1476:PRO:HD2	2.45	0.41
1:A:133:LEU:HG	1:A:532:LEU:HD12	2.02	0.41
2:B:242:LYS:HD2	2:B:243:VAL:N	2.35	0.41
3:C:85:GLN:NE2	3:C:508:GLN:OE1	2.53	0.41
3:C:129:LEU:HD13	3:C:130:THR:N	2.36	0.41
4:D:72:HIS:HA	4:D:73:PRO:HD3	1.96	0.41
4:D:176:ASP:HB3	4:D:209:MET:HE2	2.02	0.41
5:E:557:SER:OG	6:F:67:GLN:N	2.53	0.41
6:F:141:THR:HG23	6:F:142:ASN:N	2.36	0.41
7:G:182:CYS:O	7:G:186:VAL:HG23	2.21	0.41
7:G:399:ILE:HD13	7:G:399:ILE:O	2.21	0.41
8:H:163:ILE:HD11	8:H:404:GLY:C	2.46	0.41
8:H:486:GLU:N	8:H:487:PRO:HA	2.34	0.41
2:J:422:ILE:HD13	2:J:422:ILE:HA	1.93	0.41
3:K:321:LYS:O	3:K:324:ASP:HB2	2.21	0.41
4:L:66:LYS:HA	4:L:66:LYS:HD2	1.62	0.41
4:L:185:ASN:CB	4:L:186:SER:CB	2.92	0.41
5:M:497:THR:O	5:M:501:LYS:HG2	2.20	0.41
6:N:6:LEU:HD12	6:N:7:ASN:H	1.85	0.41
6:N:20:LYS:O	6:N:21:VAL:C	2.64	0.41
6:N:48:ASP:CG	6:N:50:ALA:H	2.29	0.41
6:N:212:GLY:HA2	6:N:370:ASN:OD1	2.21	0.41
6:N:237:ASN:O	6:N:237:ASN:CG	2.63	0.41
6:N:524:ALA:O	6:N:528:LEU:HG	2.21	0.41
6:N:533:LEU:N	6:N:533:LEU:HD23	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:386:LEU:HD12	8:P:386:LEU:N	2.36	0.41
1:a:1054:VAL:HB	7:g:1525:THR:HA	2.02	0.41
1:a:1118:ASN:O	1:a:1119:LYS:CG	2.65	0.41
1:a:1482:ALA:O	1:a:1485:GLN:O	2.37	0.41
2:b:1005:ILE:CG1	2:b:1006:PHE:N	2.81	0.41
2:b:1055:MET:HA	2:b:1055:MET:HE3	2.03	0.41
2:b:1511:VAL:O	2:b:1513:ASN:N	2.49	0.41
3:c:1104:LEU:CD2	3:c:1517:ALA:HA	2.49	0.41
4:d:1060:ASP:N	4:d:1392:ARG:NH2	2.68	0.41
4:d:1123:SER:OG	4:d:1440:TRP:HA	2.21	0.41
4:d:1226:PRO:CD	4:d:1311:MET:HG2	2.50	0.41
6:f:1020:LYS:O	6:f:1021:VAL:C	2.64	0.41
1:i:1055:ASP:C	1:i:1057:ILE:N	2.77	0.41
1:i:1156:LEU:HD22	1:i:1181:VAL:CG1	2.47	0.41
1:i:1156:LEU:HD21	1:i:1409:VAL:HG13	2.02	0.41
2:j:1004:GLN:HB2	3:k:1071:ALA:HB3	2.03	0.41
2:j:1045:LEU:HD23	2:j:1056:VAL:HG13	2.02	0.41
3:k:1104:LEU:CD2	3:k:1517:ALA:HA	2.49	0.41
3:k:1207:GLU:HB2	3:k:1380:MET:HA	2.02	0.41
3:k:1291:ARG:N	3:k:1292:PRO:CD	2.80	0.41
4:l:1035:ILE:HG22	4:l:1098:ILE:HD11	2.03	0.41
4:l:1099:LEU:HA	4:l:1449:VAL:HG11	2.02	0.41
5:m:1281:PRO:C	5:m:1283:THR:H	2.28	0.41
6:n:1020:LYS:O	6:n:1021:VAL:C	2.64	0.41
6:n:1456:LYS:O	6:n:1460:LYS:N	2.53	0.41
7:o:1401:LYS:HB2	7:o:1401:LYS:HE2	1.88	0.41
8:p:1267:LEU:N	8:p:1267:LEU:HD23	2.36	0.41
8:p:1386:LEU:HD12	8:p:1386:LEU:N	2.36	0.41
1:A:51:LYS:O	1:A:62:VAL:HA	2.20	0.41
1:A:209:HIS:HE1	7:G:89:ALA:CB	2.34	0.41
1:A:250:ASN:HD21	1:A:252:GLN:HG2	1.85	0.41
2:B:5:ILE:CD1	2:B:7:GLY:H	2.34	0.41
2:B:142:ASN:CB	2:B:143:SER:CA	2.95	0.41
2:B:232:LEU:HD13	2:B:232:LEU:C	2.45	0.41
2:B:397:GLU:HG2	2:B:492:LYS:HZ3	1.86	0.41
3:C:250:LEU:O	3:C:251:GLU:C	2.64	0.41
3:C:269:TRP:C	3:C:269:TRP:CD1	2.99	0.41
4:D:48:ILE:CD1	8:H:534:ALA:HB3	2.51	0.41
4:D:108:GLU:O	4:D:112:ASN:N	2.50	0.41
4:D:385:MET:HA	4:D:388:ASP:OD2	2.21	0.41
4:D:491:ASN:HB2	4:D:494:GLU:CD	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:225:LYS:HG3	5:E:225:LYS:O	2.21	0.41
5:E:250:SER:O	5:E:251:HIS:CG	2.74	0.41
5:E:341:PRO:O	5:E:342:ALA:C	2.64	0.41
5:E:412:ASN:O	5:E:413:LYS:CB	2.69	0.41
6:F:16:ASP:HA	6:F:19:LEU:HB2	2.02	0.41
6:F:16:ASP:O	6:F:20:LYS:N	2.46	0.41
6:F:151:LEU:O	6:F:171:THR:HG21	2.19	0.41
6:F:152:GLN:HG2	6:F:153:VAL:N	2.32	0.41
6:F:181:VAL:O	6:F:184:ALA:HB3	2.20	0.41
6:F:207:THR:O	6:F:208:THR:HG23	2.21	0.41
6:F:447:PHE:CE1	6:F:521:THR:HG22	2.56	0.41
8:H:38:LEU:HD23	8:H:38:LEU:HA	1.92	0.41
8:H:75:LEU:HD23	8:H:75:LEU:HA	1.93	0.41
8:H:146:VAL:HG22	8:H:148:GLY:H	1.86	0.41
8:H:163:ILE:HD11	8:H:404:GLY:CA	2.50	0.41
1:I:51:LYS:O	1:I:62:VAL:HA	2.20	0.41
1:I:118:ASN:O	1:I:119:LYS:CG	2.65	0.41
1:I:344:LEU:HD12	1:I:345:GLU:H	1.85	0.41
2:J:5:ILE:CD1	2:J:7:GLY:H	2.34	0.41
2:J:14:ARG:O	2:J:15:ALA:HB3	2.21	0.41
2:J:45:LEU:HD12	6:N:533:LEU:HB3	2.02	0.41
2:J:55:MET:HA	2:J:55:MET:HE3	2.03	0.41
2:J:81:SER:C	2:J:83:VAL:H	2.28	0.41
2:J:127:ALA:HB1	2:J:430:VAL:HG13	2.02	0.41
2:J:320:VAL:HG21	2:J:337:LEU:CA	2.51	0.41
2:J:326:VAL:O	2:J:327:SER:HB3	2.21	0.41
3:K:219:VAL:O	3:K:220:LEU:C	2.64	0.41
3:K:223:VAL:HG11	3:K:328:ILE:HG12	2.03	0.41
3:K:241:PRO:O	3:K:350:THR:HA	2.20	0.41
3:K:409:SER:C	3:K:411:SER:N	2.78	0.41
4:L:35:ILE:HG22	4:L:98:ILE:HD11	2.03	0.41
4:L:99:LEU:HA	4:L:449:VAL:HG11	2.02	0.41
4:L:159:SER:C	4:L:161:LYS:N	2.76	0.41
4:L:205:ASP:C	4:L:207:THR:H	2.28	0.41
4:L:454:LEU:CD1	9:L:601:ADP:H8	2.34	0.41
5:M:57:VAL:C	5:M:59:SER:H	2.29	0.41
5:M:158:ILE:CB	5:M:539:LEU:HD21	2.51	0.41
5:M:338:ASN:HB2	5:M:340:LEU:HD22	2.02	0.41
5:M:472:PHE:HZ	5:M:542:THR:HG22	1.86	0.41
6:N:75:LEU:HD23	6:N:76:ILE:N	2.36	0.41
6:N:105:ALA:O	6:N:108:PHE:CD2	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:331:VAL:O	6:N:332:THR:CB	2.68	0.41
6:N:444:ILE:HG12	6:N:444:ILE:H	1.66	0.41
6:N:466:PRO:O	6:N:468:ASP:N	2.54	0.41
6:N:488:TYR:O	6:N:489:VAL:CG1	2.69	0.41
7:O:83:LEU:C	7:O:85:ASP:N	2.79	0.41
7:O:182:CYS:O	7:O:186:VAL:HG23	2.21	0.41
7:O:396:ALA:O	7:O:400:VAL:HG13	2.20	0.41
7:O:399:ILE:O	7:O:399:ILE:HD13	2.21	0.41
8:P:8:ASN:HA	8:P:9:PRO:HD3	1.90	0.41
8:P:48:PRO:CA	8:P:169:SER:O	2.68	0.41
8:P:253:PRO:HA	8:P:303:ALA:O	2.21	0.41
8:P:267:LEU:N	8:P:267:LEU:HD23	2.36	0.41
8:P:306:GLY:O	8:P:310:LEU:HB2	2.20	0.41
1:a:1048:GLY:C	1:a:1049:LEU:HD22	2.46	0.41
1:a:1077:HIS:HA	1:a:1078:PRO:HD3	1.91	0.41
1:a:1156:LEU:HD21	1:a:1409:VAL:HG13	2.02	0.41
2:b:1014:ARG:O	2:b:1015:ALA:HB3	2.21	0.41
2:b:1015:ALA:O	2:b:1019:ARG:HG2	2.21	0.41
2:b:1024:VAL:HA	2:b:1027:ILE:CG2	2.51	0.41
2:b:1145:ASP:C	2:b:1147:THR:N	2.78	0.41
2:b:1165:ILE:HG12	6:f:1529:LEU:CD1	2.45	0.41
2:b:1317:LEU:C	2:b:1319:LEU:N	2.79	0.41
2:b:1422:ILE:HG22	2:b:1424:GLY:CA	2.50	0.41
2:b:1441:PRO:O	2:b:1442:THR:C	2.64	0.41
2:b:1459:LEU:HD22	2:b:1472:LEU:CD1	2.51	0.41
2:b:1467:ILE:HA	2:b:1468:SER:HA	1.59	0.41
3:c:1219:VAL:O	3:c:1220:LEU:C	2.64	0.41
3:c:1238:ILE:O	3:c:1241:PRO:HG3	2.21	0.41
3:c:1321:LYS:O	3:c:1324:ASP:HB2	2.21	0.41
4:d:1079:VAL:C	4:d:1081:VAL:H	2.29	0.41
4:d:1157:SER:C	4:d:1159:SER:N	2.79	0.41
4:d:1242:SER:HA	4:d:1243:PRO:HD3	1.92	0.41
4:d:1411:ILE:O	4:d:1498:LEU:HB3	2.21	0.41
5:e:1116:GLY:HA3	5:e:1428:CYS:CB	2.50	0.41
5:e:1472:PHE:HZ	5:e:1542:THR:HG22	1.86	0.41
6:f:1053:ILE:O	6:f:1053:ILE:CG1	2.68	0.41
6:f:1212:GLY:HA2	6:f:1370:ASN:OD1	2.21	0.41
6:f:1213:LEU:CD2	6:f:1377:THR:HG23	2.46	0.41
6:f:1533:LEU:C	6:f:1534:LEU:HD23	2.46	0.41
7:g:1028:SER:HA	7:g:1031:ASN:OD1	2.21	0.41
7:g:1033:CYS:HA	7:g:1083:LEU:CD1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g:1182:CYS:O	7:g:1186:VAL:HG23	2.21	0.41
7:g:1452:GLN:O	7:g:1456:ASN:N	2.49	0.41
8:h:1253:PRO:HA	8:h:1303:ALA:O	2.21	0.41
8:h:1256:ILE:HD11	8:h:1308:LEU:HD13	2.02	0.41
8:h:1267:LEU:N	8:h:1267:LEU:HD23	2.36	0.41
8:h:1486:GLU:N	8:h:1487:PRO:HA	2.34	0.41
9:h:1601:ADP:PB	10:h:1602:BEF:F2	2.69	0.41
1:i:1256:MET:SD	7:o:1256:ASN:O	2.79	0.41
1:i:1350:PHE:O	1:i:1351:GLU:OE2	2.36	0.41
2:j:1038:GLY:HA3	2:j:1474:LEU:HD12	2.02	0.41
2:j:1242:LYS:HD2	2:j:1243:VAL:N	2.35	0.41
2:j:1402:LEU:CD2	2:j:1483:ARG:HG3	2.46	0.41
2:j:1422:ILE:HG22	2:j:1424:GLY:CA	2.50	0.41
2:j:1459:LEU:HD22	2:j:1472:LEU:CD1	2.51	0.41
2:j:1511:VAL:O	2:j:1513:ASN:N	2.49	0.41
3:k:1010:ALA:HA	3:k:1011:SER:HA	1.59	0.41
3:k:1103:ILE:CG2	3:k:1517:ALA:HB1	2.50	0.41
3:k:1250:LEU:O	3:k:1251:GLU:C	2.64	0.41
3:k:1415:GLY:HA3	3:k:1501:GLU:OE1	2.20	0.41
4:l:1041:PRO:HG2	9:l:1601:ADP:C6	2.56	0.41
4:l:1085:GLN:O	4:l:1089:ALA:HB3	2.21	0.41
4:l:1411:ILE:O	4:l:1498:LEU:HB3	2.21	0.41
5:m:1081:ILE:HD12	5:m:1081:ILE:N	2.35	0.41
5:m:1114:GLU:HB3	6:n:1201:HIS:CE1	2.56	0.41
5:m:1320:VAL:HG22	5:m:1341:PRO:CD	2.40	0.41
5:m:1412:ASN:O	5:m:1413:LYS:CB	2.69	0.41
6:n:1030:GLN:C	6:n:1032:VAL:N	2.79	0.41
6:n:1137:LYS:O	6:n:1138:ILE:CB	2.69	0.41
6:n:1147:ARG:O	6:n:1147:ARG:HG3	2.20	0.41
6:n:1207:THR:O	6:n:1208:THR:HG23	2.21	0.41
6:n:1515:ASN:C	6:n:1517:ILE:N	2.77	0.41
7:o:1083:LEU:HA	7:o:1086:ILE:CD1	2.50	0.41
7:o:1094:VAL:CG1	7:o:1095:GLY:N	2.83	0.41
7:o:1188:SER:O	7:o:1190:ASP:CG	2.64	0.41
7:o:1214:PHE:O	7:o:1214:PHE:CD2	2.74	0.41
7:o:1368:CYS:HA	7:o:1369:PRO:HD3	1.80	0.41
7:o:1450:PRO:O	7:o:1453:LEU:HB2	2.20	0.41
8:p:1163:ILE:HD11	8:p:1404:GLY:C	2.46	0.41
8:p:1256:ILE:HD11	8:p:1308:LEU:HD13	2.02	0.41
8:p:1459:VAL:O	8:p:1462:THR:HG22	2.20	0.41
8:p:1459:VAL:HB	8:p:1460:PRO:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:397:GLU:HA	1:A:400:ARG:HH11	1.86	0.41
2:B:245:ILE:O	2:B:246:PHE:HB3	2.19	0.41
3:C:78:MET:HA	3:C:78:MET:HE2	2.03	0.41
3:C:240:ASN:HA	3:C:352:CYS:O	2.21	0.41
4:D:123:SER:OG	4:D:440:TRP:HA	2.21	0.41
4:D:226:PRO:CD	4:D:311:MET:HG2	2.50	0.41
5:E:120:THR:O	5:E:124:VAL:HG23	2.20	0.41
5:E:451:SER:O	5:E:455:SER:HB2	2.20	0.41
6:F:23:VAL:O	6:F:25:SER:N	2.54	0.41
6:F:83:GLN:O	6:F:84:ASP:C	2.62	0.41
6:F:113:VAL:CB	6:F:118:ILE:HD11	2.47	0.41
6:F:331:VAL:O	6:F:332:THR:CB	2.68	0.41
7:G:43:THR:HG23	7:G:64:ASN:HB3	2.00	0.41
7:G:145:VAL:O	7:G:409:ILE:N	2.52	0.41
7:G:214:PHE:O	7:G:214:PHE:CD2	2.74	0.41
8:H:48:PRO:CA	8:H:169:SER:O	2.68	0.41
8:H:253:PRO:HA	8:H:303:ALA:O	2.21	0.41
8:H:294:MET:HE3	8:H:294:MET:HB3	1.98	0.41
8:H:386:LEU:HD12	8:H:386:LEU:N	2.36	0.41
8:H:414:PRO:HA	8:H:415:SER:HA	1.60	0.41
8:H:459:VAL:O	8:H:462:THR:HG22	2.20	0.41
1:I:48:GLY:C	1:I:49:LEU:HD22	2.46	0.41
1:I:94:ILE:HG22	1:I:95:GLY:N	2.36	0.41
1:I:191:ASN:HA	1:I:195:GLU:O	2.21	0.41
1:I:203:VAL:O	1:I:205:VAL:HG23	2.21	0.41
1:I:478:ARG:O	1:I:479:SER:C	2.62	0.41
2:J:81:SER:C	2:J:83:VAL:N	2.79	0.41
2:J:186:GLY:HA2	2:J:187:SER:HA	1.47	0.41
2:J:242:LYS:HB2	3:K:269:TRP:CZ2	2.45	0.41
2:J:317:LEU:C	2:J:319:LEU:N	2.79	0.41
2:J:459:LEU:HD22	2:J:472:LEU:CD1	2.51	0.41
3:K:129:LEU:HD13	3:K:130:THR:N	2.36	0.41
3:K:238:ILE:O	3:K:241:PRO:HG3	2.21	0.41
3:K:240:ASN:HA	3:K:352:CYS:O	2.21	0.41
4:L:44:MET:HE3	8:P:531:ALA:CB	2.49	0.41
4:L:154:ALA:C	4:L:156:THR:H	2.29	0.41
4:L:219:ALA:HB1	4:L:221:LYS:HZ3	1.85	0.41
4:L:369:ASN:C	4:L:371:ALA:N	2.78	0.41
5:M:355:ALA:HB2	5:M:362:ILE:CD1	2.51	0.41
6:N:105:ALA:O	6:N:107:ARG:N	2.54	0.41
6:N:178:VAL:HG11	6:N:402:VAL:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:539:SER:HB2	6:N:542:LYS:CG	2.51	0.41
7:O:83:LEU:HA	7:O:86:ILE:CD1	2.50	0.41
7:O:214:PHE:O	7:O:214:PHE:CD2	2.74	0.41
7:O:516:LEU:HD11	7:O:517:ILE:CG1	2.48	0.41
8:P:54:ILE:CG2	8:P:55:ILE:N	2.83	0.41
8:P:141:GLU:O	8:P:145:MET:HG2	2.21	0.41
8:P:146:VAL:HG22	8:P:148:GLY:N	2.36	0.41
1:a:1094:ILE:HG22	1:a:1095:GLY:N	2.36	0.41
1:a:1498:ARG:O	1:a:1499:ASN:HB3	2.20	0.41
1:a:1543:THR:O	5:e:1072:LYS:HB3	2.21	0.41
2:b:1047:GLN:HE22	2:b:1052:ASN:C	2.28	0.41
2:b:1201:GLY:O	2:b:1202:LYS:CB	2.69	0.41
2:b:1232:LEU:CD1	2:b:1234:ALA:HB2	2.50	0.41
2:b:1245:ILE:O	2:b:1246:PHE:HB3	2.19	0.41
2:b:1263:LYS:HZ1	3:c:1266:GLU:CG	2.33	0.41
2:b:1320:VAL:HG21	2:b:1337:LEU:CA	2.51	0.41
2:b:1511:VAL:O	2:b:1512:ASP:HB3	2.21	0.41
3:c:1108:ALA:N	3:c:1109:PRO:CD	2.81	0.41
3:c:1129:LEU:HD13	3:c:1130:THR:N	2.36	0.41
3:c:1250:LEU:O	3:c:1251:GLU:C	2.64	0.41
3:c:1320:VAL:HG12	3:c:1324:ASP:HB3	2.02	0.41
4:d:1072:HIS:CD2	8:h:1015:LYS:NZ	2.89	0.41
4:d:1086:ASP:HB2	4:d:1093:THR:HG22	2.03	0.41
4:d:1385:MET:HA	4:d:1388:ASP:OD2	2.21	0.41
5:e:1094:MET:HG2	5:e:1094:MET:H	1.71	0.41
5:e:1387:THR:HA	5:e:1388:THR:HA	1.61	0.41
6:f:1105:ALA:O	6:f:1107:ARG:N	2.54	0.41
6:f:1178:VAL:HG11	6:f:1402:VAL:HG12	2.03	0.41
7:g:1214:PHE:O	7:g:1214:PHE:CD2	2.74	0.41
8:h:1146:VAL:HG22	8:h:1148:GLY:N	2.36	0.41
1:i:1545:ILE:O	5:m:1074:LEU:HA	2.20	0.41
2:j:1015:ALA:O	2:j:1019:ARG:HG2	2.20	0.41
2:j:1057:THR:HB	2:j:1379:GLU:HG3	2.03	0.41
2:j:1140:VAL:HG23	2:j:1483:ARG:NH2	2.36	0.41
2:j:1201:GLY:O	2:j:1202:LYS:CB	2.69	0.41
2:j:1320:VAL:HG21	2:j:1337:LEU:CA	2.51	0.41
2:j:1331:GLU:HA	2:j:1332:PRO:HD3	1.79	0.41
2:j:1492:LYS:O	2:j:1495:ARG:HB3	2.20	0.41
3:k:1009:ASN:ND2	3:k:1010:ALA:H	2.11	0.41
3:k:1238:ILE:O	3:k:1241:PRO:HG3	2.21	0.41
3:k:1407:MET:SD	3:k:1407:MET:C	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:k:1409:SER:C	3:k:1411:SER:N	2.78	0.41
5:m:1107:LEU:HD12	5:m:1107:LEU:O	2.21	0.41
5:m:1125:LEU:C	5:m:1127:SER:N	2.78	0.41
6:n:1230:ASN:N	6:n:1353:LEU:HD23	2.35	0.41
7:o:1023:LYS:O	7:o:1026:ILE:HG22	2.20	0.41
7:o:1447:GLU:OE1	7:o:1465:LEU:HD21	2.22	0.41
8:p:1071:MET:HE2	8:p:1071:MET:HB3	1.95	0.41
8:p:1455:ALA:O	8:p:1458:VAL:HG23	2.21	0.41
8:p:1482:HIS:O	8:p:1483:ASN:C	2.58	0.41
1:A:431:ILE:CG2	1:A:432:TYR:N	2.84	0.40
3:C:407:MET:SD	3:C:407:MET:C	3.04	0.40
4:D:292:ILE:HG13	4:D:294:ARG:N	2.36	0.40
4:D:425:LEU:HD12	4:D:444:ALA:HA	2.03	0.40
6:F:6:LEU:HD13	6:F:7:ASN:H	1.85	0.40
6:F:105:ALA:O	6:F:108:PHE:CD2	2.74	0.40
6:F:113:VAL:O	6:F:114:HIS:C	2.64	0.40
6:F:320:ALA:O	6:F:321:LYS:C	2.63	0.40
7:G:33:CYS:HA	7:G:83:LEU:CD1	2.51	0.40
1:I:431:ILE:CG2	1:I:432:TYR:N	2.84	0.40
2:J:88:VAL:HG12	2:J:90:ASP:H	1.86	0.40
3:K:245:LEU:HA	3:K:296:ILE:O	2.21	0.40
3:K:407:MET:SD	3:K:407:MET:C	3.04	0.40
4:L:205:ASP:C	4:L:207:THR:N	2.77	0.40
4:L:411:ILE:O	4:L:498:LEU:HB3	2.21	0.40
4:L:425:LEU:HD12	4:L:444:ALA:HA	2.03	0.40
5:M:71:ASP:OD2	5:M:85:ASN:HB2	2.21	0.40
5:M:250:SER:O	5:M:251:HIS:O	2.38	0.40
6:N:68:ILE:HD13	6:N:74:VAL:HG13	2.02	0.40
6:N:430:ASN:C	6:N:432:ASN:N	2.78	0.40
7:O:28:SER:HA	7:O:31:ASN:OD1	2.21	0.40
8:P:122:LEU:HD23	8:P:126:GLU:OE1	2.21	0.40
8:P:146:VAL:HG22	8:P:147:VAL:N	2.35	0.40
8:P:186:VAL:HA	8:P:207:ILE:HD11	2.02	0.40
8:P:459:VAL:HB	8:P:460:PRO:HD3	2.02	0.40
1:a:1191:ASN:HA	1:a:1195:GLU:O	2.21	0.40
2:b:1076:VAL:O	2:b:1079:ASN:HB2	2.20	0.40
2:b:1088:VAL:HG11	2:b:1493:LEU:HB2	2.03	0.40
6:f:1459:VAL:O	6:f:1463:GLY:N	2.55	0.40
6:f:1539:SER:HB2	6:f:1542:LYS:CG	2.51	0.40
8:h:1209:VAL:CG2	8:h:1386:LEU:HD11	2.35	0.40
8:h:1335:VAL:HG13	8:h:1379:SER:CB	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:h:1455:ALA:O	8:h:1458:VAL:HG23	2.21	0.40
1:i:1012:THR:HA	1:i:1013:LEU:HA	1.68	0.40
1:i:1048:GLY:C	1:i:1049:LEU:HD22	2.46	0.40
2:j:1004:GLN:HB3	2:j:1005:ILE:HG12	2.02	0.40
2:j:1055:MET:HE3	2:j:1055:MET:HA	2.03	0.40
3:k:1078:MET:HE2	3:k:1078:MET:HA	2.03	0.40
4:l:1079:VAL:C	4:l:1081:VAL:H	2.29	0.40
4:l:1183:ASP:O	4:l:1187:LYS:HA	2.21	0.40
4:l:1385:MET:HA	4:l:1388:ASP:OD2	2.21	0.40
5:m:1492:ILE:H	5:m:1492:ILE:CD1	2.23	0.40
6:n:1105:ALA:O	6:n:1108:PHE:CD2	2.74	0.40
6:n:1218:GLY:O	6:n:1317:LEU:HA	2.22	0.40
6:n:1527:LEU:HA	6:n:1527:LEU:HD23	1.71	0.40
7:o:1129:TYR:O	7:o:1132:ALA:HB3	2.21	0.40
7:o:1399:ILE:HD13	7:o:1399:ILE:O	2.21	0.40
8:p:1005:LEU:HA	8:p:1006:PRO:HD3	1.87	0.40
1:A:48:GLY:C	1:A:49:LEU:HD22	2.46	0.40
1:A:115:LEU:HA	1:A:115:LEU:HD23	1.80	0.40
1:A:133:LEU:C	1:A:133:LEU:HD13	2.45	0.40
1:A:191:ASN:HA	1:A:195:GLU:O	2.21	0.40
1:A:198:TYR:CE2	1:A:413:LEU:CB	3.05	0.40
1:A:267:PRO:CB	1:A:268:GLU:C	2.95	0.40
2:B:145:ASP:C	2:B:147:THR:N	2.79	0.40
2:B:317:LEU:O	2:B:321:THR:N	2.50	0.40
5:E:115:ILE:CB	5:E:432:ASN:HD21	2.35	0.40
5:E:332:ASN:HA	5:E:335:LEU:HD12	2.02	0.40
5:E:355:ALA:HB2	5:E:362:ILE:CD1	2.51	0.40
6:F:56:THR:HB	6:F:390:GLN:HE22	1.79	0.40
6:F:75:LEU:HD23	6:F:76:ILE:N	2.36	0.40
6:F:158:LEU:O	6:F:158:LEU:CG	2.69	0.40
6:F:414:GLY:C	6:F:506:ILE:HG22	2.46	0.40
6:F:459:VAL:O	6:F:463:GLY:N	2.54	0.40
7:G:94:VAL:CG1	7:G:95:GLY:H	2.28	0.40
7:G:129:TYR:O	7:G:132:ALA:HB3	2.21	0.40
1:I:397:GLU:HA	1:I:400:ARG:HH11	1.86	0.40
2:J:15:ALA:O	2:J:19:ARG:HG2	2.21	0.40
2:J:140:VAL:HG23	2:J:483:ARG:NH2	2.36	0.40
2:J:372:ALA:HA	6:N:519:GLY:HA2	2.02	0.40
4:L:123:SER:OG	4:L:440:TRP:HA	2.21	0.40
4:L:292:ILE:HG13	4:L:294:ARG:N	2.36	0.40
4:L:454:LEU:HD13	9:L:601:ADP:H8	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:338:ASN:HD22	5:M:338:ASN:N	2.16	0.40
6:N:158:LEU:O	6:N:158:LEU:CG	2.69	0.40
6:N:411:ILE:CG2	6:N:412:ILE:N	2.75	0.40
1:a:1209:HIS:CE1	7:g:1089:ALA:HB2	2.54	0.40
1:a:1431:ILE:CG2	1:a:1432:TYR:N	2.84	0.40
1:a:1456:LEU:O	1:a:1459:PRO:HD2	2.21	0.40
2:b:1140:VAL:HG23	2:b:1483:ARG:NH2	2.36	0.40
2:b:1239:ASP:CG	2:b:1290:ILE:HB	2.46	0.40
2:b:1246:PHE:CD1	2:b:1247:GLY:N	2.89	0.40
4:d:1154:ALA:C	4:d:1156:THR:H	2.29	0.40
4:d:1217:GLN:CD	4:d:1316:ILE:HA	2.47	0.40
5:e:1071:ASP:OD2	5:e:1085:ASN:HB2	2.21	0.40
5:e:1073:ILE:HG12	5:e:1083:ILE:CG1	2.44	0.40
5:e:1120:THR:O	5:e:1124:VAL:HG23	2.20	0.40
5:e:1428:CYS:HA	5:e:1431:ARG:CG	2.52	0.40
6:f:1037:LEU:HB2	9:f:1601:ADP:H5'1	2.02	0.40
6:f:1218:GLY:O	6:f:1317:LEU:HA	2.22	0.40
6:f:1370:ASN:HD22	6:f:1370:ASN:C	2.29	0.40
6:f:1411:ILE:O	6:f:1412:ILE:HB	2.22	0.40
7:g:1129:TYR:O	7:g:1132:ALA:HB3	2.21	0.40
1:i:1250:ASN:HD21	1:i:1252:GLN:HG2	1.85	0.40
1:i:1419:VAL:HA	1:i:1420:PRO:HD3	1.86	0.40
1:i:1456:LEU:O	1:i:1459:PRO:HD2	2.21	0.40
2:j:1005:ILE:CG1	2:j:1006:PHE:N	2.81	0.40
2:j:1081:SER:C	2:j:1083:VAL:N	2.79	0.40
3:k:1040:GLY:N	9:k:2101:ADP:O5'	2.54	0.40
4:l:1292:ILE:HG13	4:l:1294:ARG:N	2.36	0.40
5:m:1269:LEU:HD22	5:m:1269:LEU:H	1.85	0.40
6:n:1105:ALA:O	6:n:1107:ARG:N	2.54	0.40
6:n:1196:ILE:HG22	6:n:1378:ILE:HG23	2.02	0.40
6:n:1246:GLU:CD	6:n:1246:GLU:N	2.79	0.40
6:n:1454:ILE:O	6:n:1457:THR:OG1	2.30	0.40
6:n:1519:GLY:O	6:n:1520:ALA:C	2.64	0.40
8:p:1049:CYS:O	8:p:1466:THR:CG2	2.69	0.40
1:A:224:LEU:HD13	1:A:224:LEU:C	2.46	0.40
1:A:555:ASP:HA	1:A:556:PRO:HD3	1.90	0.40
2:B:164:LYS:O	2:B:166:LEU:HD23	2.22	0.40
2:B:239:ASP:CG	2:B:290:ILE:HB	2.46	0.40
2:B:474:LEU:N	2:B:474:LEU:HD23	2.35	0.40
3:C:56:VAL:CA	3:C:57:LEU:HD23	2.50	0.40
4:D:47:MET:O	8:H:534:ALA:N	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:120:ILE:CG1	4:D:439:ILE:HG21	2.43	0.40
4:D:135:LEU:HD22	4:D:135:LEU:HA	1.87	0.40
4:D:154:ALA:C	4:D:156:THR:H	2.29	0.40
5:E:86:ASP:O	5:E:90:ILE:HG13	2.20	0.40
5:E:88:ALA:CB	5:E:109:LYS:HZ1	2.32	0.40
5:E:261:LYS:O	5:E:341:PRO:HG3	2.21	0.40
5:E:557:SER:CB	6:F:66:MET:HA	2.52	0.40
6:F:196:ILE:HG22	6:F:378:ILE:HG23	2.02	0.40
6:F:198:GLN:HE21	6:F:198:GLN:H	1.66	0.40
6:F:246:GLU:CD	6:F:246:GLU:N	2.80	0.40
6:F:533:LEU:C	6:F:534:LEU:HD23	2.46	0.40
7:G:188:SER:O	7:G:190:ASP:CG	2.64	0.40
7:G:436:GLN:C	7:G:438:ILE:H	2.28	0.40
8:H:7:GLN:HE22	7:O:58:GLN:C	2.29	0.40
8:H:49:CYS:O	8:H:466:THR:CG2	2.69	0.40
8:H:141:GLU:O	8:H:145:MET:HG2	2.21	0.40
8:H:209:VAL:CG2	8:H:386:LEU:HD11	2.36	0.40
1:I:156:LEU:HD21	1:I:409:VAL:HG13	2.02	0.40
1:I:198:TYR:CE2	1:I:413:LEU:CB	3.05	0.40
2:J:24:VAL:HA	2:J:27:ILE:CG2	2.51	0.40
2:J:61:ALA:HB2	2:J:85:ASP:HB2	2.02	0.40
2:J:181:ILE:HG21	2:J:391:LEU:O	2.21	0.40
3:K:250:LEU:O	3:K:251:GLU:C	2.64	0.40
3:K:467:LEU:HD23	3:K:467:LEU:C	2.47	0.40
4:L:65:LEU:HB3	4:L:79:VAL:HG13	2.04	0.40
4:L:72:HIS:HA	4:L:73:PRO:HD3	1.96	0.40
5:M:162:GLU:OE2	5:M:162:GLU:N	2.55	0.40
5:M:261:LYS:O	5:M:341:PRO:HG3	2.21	0.40
5:M:276:PHE:HZ	5:M:310:ILE:HG12	1.86	0.40
5:M:387:THR:HA	5:M:388:THR:HA	1.61	0.40
6:N:370:ASN:N	6:N:370:ASN:ND2	2.70	0.40
6:N:515:ASN:C	6:N:517:ILE:N	2.77	0.40
8:P:75:LEU:HD23	8:P:75:LEU:HA	1.94	0.40
8:P:146:VAL:HG22	8:P:148:GLY:H	1.86	0.40
1:a:1397:GLU:HA	1:a:1400:ARG:HH11	1.86	0.40
2:b:1181:ILE:HG21	2:b:1391:LEU:O	2.21	0.40
2:b:1242:LYS:HD2	2:b:1243:VAL:N	2.35	0.40
3:c:1229:VAL:CG1	3:c:1230:VAL:N	2.84	0.40
3:c:1269:TRP:C	3:c:1269:TRP:CD1	2.99	0.40
3:c:1332:THR:HB	3:c:1349:GLY:CA	2.49	0.40
5:e:1033:LYS:O	5:e:1033:LYS:HG2	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:1162:GLU:OE2	5:e:1162:GLU:N	2.55	0.40
6:f:1330:LEU:HD13	6:f:1374:LYS:O	2.22	0.40
7:g:1195:ASP:C	7:g:1197:LYS:H	2.29	0.40
7:g:1282:LEU:HD22	7:g:1307:PHE:N	2.37	0.40
7:g:1399:ILE:O	7:g:1399:ILE:HD13	2.21	0.40
8:h:1141:GLU:O	8:h:1145:MET:HG2	2.21	0.40
8:h:1208:ARG:O	8:h:1383:THR:HA	2.22	0.40
1:i:1198:TYR:CE2	1:i:1413:LEU:CB	3.05	0.40
1:i:1224:LEU:CD1	1:i:1226:CYS:CB	2.90	0.40
1:i:1339:SER:HB2	5:m:1333:HIS:ND1	2.37	0.40
2:j:1164:LYS:O	2:j:1166:LEU:HD23	2.22	0.40
2:j:1354:LEU:HD13	2:j:1356:PHE:CE2	2.56	0.40
3:k:1006:VAL:HA	8:p:1079:HIS:HD2	1.87	0.40
3:k:1114:LYS:CA	3:k:1115:ASN:CB	2.94	0.40
3:k:1229:VAL:CG1	3:k:1230:VAL:N	2.84	0.40
3:k:1516:SER:C	3:k:1518:CYS:N	2.78	0.40
4:l:1116:HIS:HA	4:l:1117:PRO:HD3	1.99	0.40
4:l:1154:ALA:C	4:l:1156:THR:H	2.29	0.40
4:l:1491:ASN:HB2	4:l:1494:GLU:CD	2.45	0.40
5:m:1071:ASP:OD2	5:m:1085:ASN:HB2	2.21	0.40
5:m:1162:GLU:OE2	5:m:1162:GLU:N	2.55	0.40
6:n:1006:LEU:HD12	6:n:1007:ASN:H	1.85	0.40
6:n:1411:ILE:O	6:n:1412:ILE:HB	2.22	0.40
6:n:1459:VAL:O	6:n:1463:GLY:N	2.54	0.40
8:p:1048:PRO:CA	8:p:1169:SER:O	2.68	0.40
8:p:1146:VAL:HG22	8:p:1148:GLY:N	2.36	0.40
8:p:1300:VAL:HG11	8:p:1332:LEU:CD2	2.49	0.40
1:A:120:ILE:CG2	1:A:121:HIS:N	2.81	0.40
2:B:14:ARG:O	2:B:15:ALA:HB3	2.21	0.40
2:B:81:SER:C	2:B:83:VAL:H	2.28	0.40
2:B:88:VAL:HG11	2:B:493:LEU:HB2	2.04	0.40
2:B:140:VAL:HG23	2:B:483:ARG:NH2	2.36	0.40
2:B:196:ILE:HD12	2:B:196:ILE:N	2.36	0.40
2:B:295:GLU:CB	6:F:337:GLN:NE2	2.79	0.40
2:B:354:LEU:HD13	2:B:356:PHE:CE2	2.56	0.40
3:C:41:PRO:HD3	9:C:1101:ADP:N3	2.36	0.40
3:C:245:LEU:HA	3:C:296:ILE:O	2.21	0.40
3:C:444:ALA:C	3:C:446:ALA:N	2.79	0.40
3:C:467:LEU:C	3:C:467:LEU:HD23	2.47	0.40
4:D:167:SER:C	4:D:169:PHE:H	2.29	0.40
5:E:57:VAL:C	5:E:59:SER:H	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:107:LEU:O	5:E:107:LEU:HD12	2.21	0.40
5:E:245:LEU:CD1	5:E:247:LYS:H	2.25	0.40
5:E:276:PHE:HZ	5:E:310:ILE:HG12	1.86	0.40
5:E:297:LYS:HB3	6:F:256:ALA:CB	2.52	0.40
5:E:428:CYS:HA	5:E:431:ARG:CG	2.52	0.40
6:F:118:ILE:HG22	6:F:122:PHE:CD2	2.57	0.40
7:G:413:GLY:HA2	9:G:601:ADP:C2	2.57	0.40
8:H:5:LEU:HA	8:H:6:PRO:HD3	1.87	0.40
8:H:111:LEU:HD21	8:H:524:LYS:HA	2.04	0.40
8:H:122:LEU:HD23	8:H:126:GLU:OE1	2.22	0.40
2:J:201:GLY:O	2:J:202:LYS:CB	2.69	0.40
2:J:360:LYS:HA	2:J:361:ALA:HA	1.70	0.40
4:L:86:ASP:HB2	4:L:93:THR:HG22	2.03	0.40
4:L:292:ILE:CG1	4:L:293:LEU:HA	2.47	0.40
5:M:412:ASN:O	5:M:413:LYS:CB	2.69	0.40
6:N:16:ASP:HA	6:N:19:LEU:HB2	2.02	0.40
6:N:30:GLN:C	6:N:32:VAL:N	2.79	0.40
6:N:414:GLY:C	6:N:506:ILE:HG22	2.46	0.40
7:O:129:TYR:O	7:O:132:ALA:HB3	2.21	0.40
7:O:449:ILE:CB	7:O:450:PRO:HD3	2.50	0.40
7:O:478:TRP:O	7:O:479:TYR:CB	2.69	0.40
8:P:414:PRO:HA	8:P:415:SER:HA	1.60	0.40
1:a:1115:LEU:CD1	1:a:1125:ILE:HD11	2.51	0.40
1:a:1203:VAL:O	1:a:1205:VAL:HG23	2.21	0.40
2:b:1127:ALA:HB1	2:b:1430:VAL:HG13	2.02	0.40
2:b:1196:ILE:HD12	2:b:1196:ILE:N	2.36	0.40
2:b:1320:VAL:HB	2:b:1338:GLY:H	1.87	0.40
3:c:1527:VAL:HG11	8:h:1075:LEU:HD21	2.03	0.40
5:e:1081:ILE:HD12	5:e:1081:ILE:N	2.35	0.40
5:e:1281:PRO:C	5:e:1283:THR:H	2.28	0.40
5:e:1341:PRO:O	5:e:1342:ALA:C	2.64	0.40
5:e:1421:ARG:C	5:e:1423:LEU:H	2.30	0.40
6:f:1030:GLN:C	6:f:1032:VAL:N	2.79	0.40
6:f:1066:MET:HE3	6:f:1067:GLN:N	2.36	0.40
6:f:1246:GLU:CD	6:f:1246:GLU:N	2.80	0.40
6:f:1519:GLY:O	6:f:1520:ALA:C	2.64	0.40
7:g:1083:LEU:C	7:g:1085:ASP:N	2.79	0.40
7:g:1188:SER:O	7:g:1190:ASP:CG	2.64	0.40
8:h:1386:LEU:HD12	8:h:1386:LEU:N	2.36	0.40
1:i:1051:LYS:O	1:i:1062:VAL:HA	2.20	0.40
1:i:1094:ILE:HG22	1:i:1095:GLY:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1246:PHE:CD1	2:j:1247:GLY:N	2.89	0.40
2:j:1495:ARG:O	2:j:1496:ALA:C	2.64	0.40
3:k:1250:LEU:HG	3:k:1301:VAL:HB	2.02	0.40
4:l:1217:GLN:CD	4:l:1316:ILE:HA	2.47	0.40
5:m:1255:PRO:HG3	5:m:1336:LEU:CA	2.52	0.40
6:n:1178:VAL:HG11	6:n:1402:VAL:HG12	2.03	0.40
6:n:1370:ASN:HD22	6:n:1370:ASN:C	2.29	0.40
6:n:1524:ALA:O	6:n:1528:LEU:HG	2.21	0.40
8:p:1024:ALA:HB2	8:p:1531:ALA:O	2.20	0.40
8:p:1077:ILE:H	8:p:1077:ILE:CD1	2.26	0.40
8:p:1243:LYS:HD3	8:p:1243:LYS:HA	1.87	0.40
1:A:307:LEU:O	1:A:311:VAL:N	2.53	0.40
2:B:201:GLY:O	2:B:202:LYS:CB	2.69	0.40
2:B:354:LEU:HD13	2:B:356:PHE:HE2	1.87	0.40
3:C:112:ILE:C	3:C:114:LYS:N	2.74	0.40
3:C:210:PRO:HB2	3:C:211:GLY:H	1.63	0.40
3:C:413:SER:HA	3:C:414:PRO:HD3	1.90	0.40
4:D:94:THR:C	4:D:96:VAL:N	2.79	0.40
5:E:237:SER:HB3	5:E:408:VAL:HA	2.04	0.40
5:E:472:PHE:HZ	5:E:542:THR:HG22	1.86	0.40
6:F:30:GLN:C	6:F:32:VAL:N	2.79	0.40
6:F:331:VAL:HG23	6:F:375:SER:OG	2.21	0.40
7:G:204:ILE:HA	7:G:205:PRO:HD3	1.79	0.40
8:H:208:ARG:O	8:H:383:THR:HA	2.22	0.40
1:I:303:ASP:OD1	1:I:304:ASP:N	2.55	0.40
2:J:164:LYS:O	2:J:166:LEU:HD23	2.22	0.40
2:J:239:ASP:CG	2:J:290:ILE:HB	2.46	0.40
2:J:320:VAL:HB	2:J:338:GLY:H	1.87	0.40
2:J:402:LEU:CD2	2:J:483:ARG:HG3	2.46	0.40
2:J:495:ARG:O	2:J:496:ALA:C	2.64	0.40
3:K:34:VAL:HG12	3:K:35:ILE:N	2.35	0.40
3:K:489:GLY:O	3:K:490:LYS:C	2.64	0.40
4:L:20:VAL:HG21	4:L:522:ASP:O	2.22	0.40
4:L:65:LEU:HA	4:L:65:LEU:HD23	1.83	0.40
4:L:116:HIS:HA	4:L:117:PRO:HD3	1.99	0.40
4:L:443:PHE:CD2	4:L:443:PHE:C	3.00	0.40
6:N:331:VAL:HG23	6:N:375:SER:OG	2.21	0.40
7:O:94:VAL:CG1	7:O:95:GLY:N	2.83	0.40
8:P:71:MET:HE2	8:P:71:MET:HB3	1.95	0.40
1:a:1344:LEU:HD12	1:a:1345:GLU:H	1.85	0.40
2:b:1057:THR:HB	2:b:1379:GLU:HG3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1220:ASN:CG	2:b:1221:ASN:H	2.30	0.40
2:b:1347:MET:HE2	2:b:1369:LEU:HD21	2.03	0.40
2:b:1387:ALA:O	2:b:1388:LEU:C	2.65	0.40
2:b:1424:GLY:O	2:b:1427:SER:N	2.55	0.40
5:e:1055:ARG:HG3	5:e:1131:ASP:CG	2.45	0.40
5:e:1107:LEU:HD12	5:e:1107:LEU:O	2.21	0.40
5:e:1319:ASP:O	5:e:1340:LEU:HA	2.22	0.40
6:f:1151:LEU:HD22	6:f:1175:THR:HG23	2.04	0.40
6:f:1466:PRO:O	6:f:1468:ASP:N	2.54	0.40
6:f:1515:ASN:C	6:f:1517:ILE:N	2.77	0.40
8:h:1122:LEU:HD23	8:h:1126:GLU:OE1	2.21	0.40
8:h:1163:ILE:HD11	8:h:1404:GLY:C	2.46	0.40
8:h:1186:VAL:HA	8:h:1207:ILE:HD11	2.02	0.40
8:h:1459:VAL:HB	8:h:1460:PRO:HD3	2.02	0.40
2:j:1424:GLY:H	2:j:1427:SER:HB3	1.85	0.40
3:k:1129:LEU:HD13	3:k:1130:THR:N	2.36	0.40
3:k:1223:VAL:HG11	3:k:1328:ILE:HG12	2.03	0.40
3:k:1230:VAL:O	3:k:1231:HIS:CG	2.74	0.40
3:k:1456:LEU:HA	3:k:1456:LEU:HD22	1.79	0.40
4:l:1065:LEU:HA	4:l:1065:LEU:HD23	1.84	0.40
4:l:1443:PHE:CD2	4:l:1443:PHE:C	3.00	0.40
5:m:1319:ASP:O	5:m:1340:LEU:HA	2.22	0.40
6:n:1075:LEU:HD23	6:n:1076:ILE:N	2.36	0.40
6:n:1133:LEU:HD12	6:n:1422:LEU:HD11	2.02	0.40
6:n:1330:LEU:HD13	6:n:1374:LYS:O	2.21	0.40
6:n:1331:VAL:HG23	6:n:1375:SER:OG	2.21	0.40
6:n:1414:GLY:C	6:n:1506:ILE:HG22	2.46	0.40
8:p:1122:LEU:HD23	8:p:1126:GLU:OE1	2.21	0.40
8:p:1141:GLU:O	8:p:1145:MET:HG2	2.21	0.40
8:p:1167:ILE:HD12	8:p:1179:SER:HB3	2.04	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 X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	538/559 (96%)	441 (82%)	78 (14%)	19 (4%)	3	23
1	I	538/559 (96%)	441 (82%)	78 (14%)	19 (4%)	3	23
1	a	538/559 (96%)	441 (82%)	78 (14%)	19 (4%)	3	23
1	i	538/559 (96%)	441 (82%)	78 (14%)	19 (4%)	3	23
2	B	509/527 (97%)	417 (82%)	67 (13%)	25 (5%)	1	17
2	J	509/527 (97%)	417 (82%)	67 (13%)	25 (5%)	1	17
2	b	509/527 (97%)	417 (82%)	68 (13%)	24 (5%)	2	18
2	j	509/527 (97%)	417 (82%)	67 (13%)	25 (5%)	1	17
3	C	508/590 (86%)	420 (83%)	68 (13%)	20 (4%)	2	20
3	K	508/590 (86%)	421 (83%)	67 (13%)	20 (4%)	2	20
3	c	508/590 (86%)	419 (82%)	70 (14%)	19 (4%)	2	21
3	k	508/590 (86%)	420 (83%)	68 (13%)	20 (4%)	2	20
4	D	520/528 (98%)	429 (82%)	79 (15%)	12 (2%)	5	30
4	L	520/528 (98%)	429 (82%)	79 (15%)	12 (2%)	5	30
4	d	520/528 (98%)	429 (82%)	79 (15%)	12 (2%)	5	30
4	l	520/528 (98%)	429 (82%)	79 (15%)	12 (2%)	5	30
5	E	521/562 (93%)	443 (85%)	59 (11%)	19 (4%)	2	22
5	M	521/562 (93%)	443 (85%)	59 (11%)	19 (4%)	2	22
5	e	521/562 (93%)	442 (85%)	60 (12%)	19 (4%)	2	22
5	m	521/562 (93%)	443 (85%)	59 (11%)	19 (4%)	2	22
6	F	529/546 (97%)	429 (81%)	82 (16%)	18 (3%)	3	23
6	N	529/546 (97%)	429 (81%)	82 (16%)	18 (3%)	3	23
6	f	529/546 (97%)	429 (81%)	82 (16%)	18 (3%)	3	23
6	n	529/546 (97%)	429 (81%)	82 (16%)	18 (3%)	3	23
7	G	505/550 (92%)	424 (84%)	60 (12%)	21 (4%)	2	19
7	O	505/550 (92%)	424 (84%)	60 (12%)	21 (4%)	2	19
7	g	505/550 (92%)	424 (84%)	60 (12%)	21 (4%)	2	19
7	o	505/550 (92%)	424 (84%)	60 (12%)	21 (4%)	2	19
8	H	521/568 (92%)	439 (84%)	58 (11%)	24 (5%)	2	18
8	P	521/568 (92%)	439 (84%)	58 (11%)	24 (5%)	2	18

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	h	521/568 (92%)	439 (84%)	58 (11%)	24 (5%)	2	18
8	p	521/568 (92%)	439 (84%)	58 (11%)	24 (5%)	2	18
All	All	16604/17720 (94%)	13767 (83%)	2207 (13%)	630 (4%)	2	21

All (630) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	5	ILE
2	B	165	ILE
2	B	184	LEU
2	B	185	LYS
2	B	307	GLU
2	B	370	ARG
2	B	470	SER
3	C	16	THR
3	C	210	PRO
3	C	252	TYR
3	C	303	ASP
4	D	205	ASP
4	D	427	LYS
5	E	167	ASP
5	E	351	LEU
5	E	369	LEU
6	F	160	THR
6	F	353	LEU
6	F	460	LYS
6	F	489	VAL
6	F	490	GLY
7	G	46	PRO
7	G	190	ASP
7	G	213	LEU
7	G	487	ASN
7	G	495	PHE
8	H	147	VAL
8	H	483	ASN
8	H	490	VAL
2	J	5	ILE
2	J	165	ILE
2	J	184	LEU
2	J	185	LYS
2	J	307	GLU

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Mol	Chain	Res	Type
2	J	370	ARG
2	J	470	SER
3	K	16	THR
3	K	210	PRO
3	K	252	TYR
3	K	303	ASP
4	L	205	ASP
4	L	427	LYS
5	M	167	ASP
5	M	351	LEU
5	M	369	LEU
6	N	160	THR
6	N	353	LEU
6	N	460	LYS
6	N	489	VAL
6	N	490	GLY
7	O	46	PRO
7	O	190	ASP
7	O	213	LEU
7	O	487	ASN
7	O	495	PHE
8	P	147	VAL
8	P	483	ASN
8	P	490	VAL
2	b	1005	ILE
2	b	1165	ILE
2	b	1184	LEU
2	b	1185	LYS
2	b	1307	GLU
2	b	1370	ARG
2	b	1470	SER
3	c	1016	THR
3	c	1210	PRO
3	c	1252	TYR
3	c	1303	ASP
4	d	1205	ASP
4	d	1427	LYS
5	e	1167	ASP
5	e	1351	LEU
5	e	1369	LEU
6	f	1160	THR
6	f	1353	LEU

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Mol	Chain	Res	Type
6	f	1460	LYS
6	f	1489	VAL
6	f	1490	GLY
7	g	1046	PRO
7	g	1190	ASP
7	g	1213	LEU
7	g	1487	ASN
7	g	1495	PHE
8	h	1006	PRO
8	h	1147	VAL
8	h	1483	ASN
8	h	1490	VAL
2	j	1005	ILE
2	j	1165	ILE
2	j	1184	LEU
2	j	1185	LYS
2	j	1307	GLU
2	j	1370	ARG
2	j	1470	SER
3	k	1016	THR
3	k	1210	PRO
3	k	1252	TYR
3	k	1303	ASP
4	l	1205	ASP
4	l	1427	LYS
5	m	1167	ASP
5	m	1351	LEU
5	m	1369	LEU
6	n	1160	THR
6	n	1353	LEU
6	n	1460	LYS
6	n	1489	VAL
6	n	1490	GLY
7	o	1046	PRO
7	o	1190	ASP
7	o	1213	LEU
7	o	1487	ASN
7	o	1495	PHE
8	p	1147	VAL
8	p	1483	ASN
8	p	1490	VAL
1	A	11	ASP

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Mol	Chain	Res	Type
1	A	56	ASP
1	A	94	ILE
1	A	265	ASP
1	A	508	LYS
2	B	35	SER
2	B	50	SER
2	B	142	ASN
2	B	220	ASN
2	B	323	GLY
2	B	371	GLY
3	C	19	GLN
3	C	36	ARG
3	C	144	ASP
3	C	258	GLN
3	C	321	LYS
3	C	454	ARG
4	D	188	ASN
4	D	485	ARG
5	E	251	HIS
5	E	347	GLY
5	E	402	LYS
5	E	438	ARG
6	F	138	ILE
6	F	298	GLN
6	F	333	GLY
6	F	467	LEU
6	F	486	THR
7	G	45	GLY
7	G	224	PHE
7	G	256	ASN
7	G	478	TRP
7	G	502	VAL
1	I	11	ASP
1	I	56	ASP
1	I	94	ILE
1	I	265	ASP
1	I	508	LYS
2	J	35	SER
2	J	50	SER
2	J	142	ASN
2	J	220	ASN
2	J	323	GLY

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Mol	Chain	Res	Type
2	J	371	GLY
3	K	19	GLN
3	K	36	ARG
3	K	144	ASP
3	K	258	GLN
3	K	321	LYS
3	K	454	ARG
4	L	188	ASN
4	L	485	ARG
5	M	251	HIS
5	M	347	GLY
5	M	402	LYS
5	M	438	ARG
6	N	138	ILE
6	N	298	GLN
6	N	333	GLY
6	N	467	LEU
6	N	486	THR
7	O	45	GLY
7	O	224	PHE
7	O	256	ASN
7	O	478	TRP
7	O	502	VAL
1	a	1011	ASP
1	a	1056	ASP
1	a	1094	ILE
1	a	1265	ASP
1	a	1508	LYS
2	b	1035	SER
2	b	1050	SER
2	b	1142	ASN
2	b	1220	ASN
2	b	1323	GLY
2	b	1371	GLY
3	c	1019	GLN
3	c	1036	ARG
3	c	1144	ASP
3	c	1258	GLN
3	c	1321	LYS
3	c	1454	ARG
4	d	1188	ASN
4	d	1485	ARG

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Mol	Chain	Res	Type
5	e	1251	HIS
5	e	1347	GLY
5	e	1402	LYS
5	e	1438	ARG
6	f	1138	ILE
6	f	1298	GLN
6	f	1333	GLY
6	f	1467	LEU
6	f	1486	THR
7	g	1045	GLY
7	g	1224	PHE
7	g	1256	ASN
7	g	1478	TRP
7	g	1502	VAL
1	i	1011	ASP
1	i	1056	ASP
1	i	1094	ILE
1	i	1265	ASP
1	i	1508	LYS
2	j	1035	SER
2	j	1050	SER
2	j	1142	ASN
2	j	1220	ASN
2	j	1323	GLY
2	j	1371	GLY
3	k	1019	GLN
3	k	1036	ARG
3	k	1144	ASP
3	k	1258	GLN
3	k	1321	LYS
3	k	1454	ARG
4	l	1188	ASN
4	l	1485	ARG
5	m	1251	HIS
5	m	1347	GLY
5	m	1402	LYS
5	m	1438	ARG
6	n	1138	ILE
6	n	1298	GLN
6	n	1333	GLY
6	n	1467	LEU
6	n	1486	THR

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Mol	Chain	Res	Type
7	o	1045	GLY
7	o	1224	PHE
7	o	1256	ASN
7	o	1478	TRP
7	o	1502	VAL
1	A	335	ALA
1	A	337	LEU
2	B	15	ALA
2	B	301	LEU
2	B	467	ILE
2	B	478	THR
3	C	52	MET
3	C	256	GLU
3	C	460	ALA
3	C	490	LYS
4	D	17	PRO
4	D	143	SER
4	D	474	GLU
5	E	36	GLY
5	E	190	SER
6	F	204	PRO
7	G	63	SER
7	G	250	LEU
7	G	362	TYR
8	H	6	PRO
8	H	13	LEU
8	H	48	PRO
8	H	146	VAL
8	H	150	ILE
8	H	178	LEU
8	H	343	ARG
8	H	378	ILE
8	H	458	VAL
8	H	460	PRO
8	H	486	GLU
1	I	335	ALA
1	I	337	LEU
2	J	15	ALA
2	J	301	LEU
2	J	467	ILE
2	J	478	THR
3	K	52	MET

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Mol	Chain	Res	Type
3	K	256	GLU
3	K	460	ALA
3	K	490	LYS
4	L	17	PRO
4	L	143	SER
4	L	474	GLU
5	M	36	GLY
5	M	190	SER
6	N	204	PRO
7	O	63	SER
7	O	250	LEU
7	O	362	TYR
8	P	6	PRO
8	P	13	LEU
8	P	48	PRO
8	P	146	VAL
8	P	150	ILE
8	P	178	LEU
8	P	343	ARG
8	P	378	ILE
8	P	458	VAL
8	P	460	PRO
8	P	486	GLU
1	a	1335	ALA
1	a	1337	LEU
2	b	1015	ALA
2	b	1301	LEU
2	b	1467	ILE
2	b	1478	THR
3	c	1052	MET
3	c	1256	GLU
3	c	1460	ALA
3	c	1490	LYS
4	d	1017	PRO
4	d	1143	SER
4	d	1474	GLU
5	e	1036	GLY
5	e	1190	SER
6	f	1204	PRO
7	g	1063	SER
7	g	1250	LEU
7	g	1362	TYR

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Mol	Chain	Res	Type
8	h	1013	LEU
8	h	1048	PRO
8	h	1146	VAL
8	h	1150	ILE
8	h	1178	LEU
8	h	1343	ARG
8	h	1378	ILE
8	h	1458	VAL
8	h	1460	PRO
8	h	1486	GLU
1	i	1335	ALA
1	i	1337	LEU
2	j	1015	ALA
2	j	1301	LEU
2	j	1467	ILE
2	j	1478	THR
3	k	1052	MET
3	k	1256	GLU
3	k	1460	ALA
3	k	1490	LYS
4	l	1017	PRO
4	l	1143	SER
4	l	1474	GLU
5	m	1036	GLY
5	m	1190	SER
6	n	1204	PRO
7	o	1063	SER
7	o	1250	LEU
7	o	1362	TYR
8	p	1006	PRO
8	p	1013	LEU
8	p	1048	PRO
8	p	1146	VAL
8	p	1150	ILE
8	p	1178	LEU
8	p	1343	ARG
8	p	1378	ILE
8	p	1458	VAL
8	p	1460	PRO
8	p	1486	GLU
1	A	74	ASP
1	A	121	HIS

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Mol	Chain	Res	Type
1	A	267	PRO
1	A	518	LEU
2	B	16	GLU
2	B	202	LYS
2	B	246	PHE
2	B	327	SER
3	C	265	LYS
4	D	9	ALA
4	D	95	SER
4	D	382	ALA
5	E	274	CYS
5	E	462	ARG
6	F	167	THR
6	F	343	LEU
7	G	368	CYS
7	G	428	SER
8	H	122	LEU
8	H	233	GLU
8	H	356	GLU
8	H	373	GLN
1	I	74	ASP
1	I	121	HIS
1	I	267	PRO
1	I	518	LEU
2	J	16	GLU
2	J	202	LYS
2	J	246	PHE
2	J	327	SER
3	K	265	LYS
4	L	9	ALA
4	L	95	SER
4	L	382	ALA
5	M	274	CYS
5	M	462	ARG
6	N	167	THR
6	N	343	LEU
7	O	368	CYS
7	O	428	SER
8	P	122	LEU
8	P	233	GLU
8	P	356	GLU
8	P	373	GLN

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Mol	Chain	Res	Type
1	a	1074	ASP
1	a	1121	HIS
1	a	1267	PRO
1	a	1518	LEU
2	b	1016	GLU
2	b	1202	LYS
2	b	1246	PHE
2	b	1327	SER
3	c	1265	LYS
4	d	1009	ALA
4	d	1095	SER
4	d	1382	ALA
5	e	1274	CYS
5	e	1462	ARG
6	f	1167	THR
6	f	1343	LEU
7	g	1368	CYS
7	g	1428	SER
8	h	1122	LEU
8	h	1233	GLU
8	h	1356	GLU
8	h	1373	GLN
1	i	1074	ASP
1	i	1121	HIS
1	i	1267	PRO
1	i	1518	LEU
2	j	1016	GLU
2	j	1202	LYS
2	j	1246	PHE
2	j	1327	SER
3	k	1265	LYS
4	l	1009	ALA
4	l	1095	SER
4	l	1382	ALA
5	m	1274	CYS
5	m	1462	ARG
6	n	1167	THR
6	n	1343	LEU
7	o	1368	CYS
7	o	1428	SER
8	p	1122	LEU
8	p	1233	GLU

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Mol	Chain	Res	Type
8	p	1356	GLU
8	p	1373	GLN
1	A	199	PRO
1	A	367	SER
2	B	293	TYR
3	C	30	ALA
3	C	249	PRO
4	D	294	ARG
4	D	431	SER
5	E	147	ALA
5	E	279	PRO
5	E	376	THR
6	F	24	THR
6	F	188	ASN
7	G	337	THR
8	H	49	CYS
8	H	322	LYS
1	I	199	PRO
1	I	367	SER
2	J	293	TYR
3	K	30	ALA
3	K	249	PRO
4	L	294	ARG
4	L	431	SER
5	M	147	ALA
5	M	279	PRO
5	M	376	THR
6	N	24	THR
6	N	188	ASN
7	O	337	THR
8	P	49	CYS
8	P	322	LYS
1	a	1199	PRO
1	a	1367	SER
2	b	1293	TYR
3	c	1030	ALA
3	c	1249	PRO
4	d	1294	ARG
4	d	1431	SER
5	e	1147	ALA
5	e	1279	PRO
5	e	1376	THR

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Mol	Chain	Res	Type
6	f	1024	THR
6	f	1188	ASN
7	g	1337	THR
8	h	1049	CYS
8	h	1322	LYS
1	i	1199	PRO
1	i	1367	SER
2	j	1293	TYR
3	k	1030	ALA
3	k	1249	PRO
4	l	1294	ARG
4	l	1431	SER
5	m	1147	ALA
5	m	1279	PRO
5	m	1376	THR
6	n	1024	THR
6	n	1188	ASN
7	o	1337	THR
8	p	1049	CYS
8	p	1322	LYS
1	A	55	ASP
1	A	77	HIS
2	B	372	ALA
5	E	254	MET
6	F	183	ASP
7	G	67	ALA
7	G	479	TYR
8	H	187	SER
8	H	484	VAL
1	I	55	ASP
1	I	77	HIS
2	J	372	ALA
5	M	254	MET
6	N	183	ASP
7	O	67	ALA
7	O	479	TYR
8	P	187	SER
8	P	484	VAL
1	a	1055	ASP
1	a	1077	HIS
5	e	1254	MET
6	f	1183	ASP

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Mol	Chain	Res	Type
7	g	1067	ALA
7	g	1479	TYR
8	h	1187	SER
8	h	1484	VAL
1	i	1055	ASP
1	i	1077	HIS
2	j	1372	ALA
5	m	1254	MET
6	n	1183	ASP
7	o	1067	ALA
7	o	1479	TYR
8	p	1187	SER
8	p	1484	VAL
1	A	22	GLY
1	A	376	GLY
1	A	549	PRO
2	B	117	PRO
3	C	410	PRO
5	E	493	GLY
8	H	284	ILE
8	H	324	PRO
1	I	22	GLY
1	I	376	GLY
1	I	549	PRO
2	J	117	PRO
3	K	410	PRO
5	M	493	GLY
8	P	284	ILE
8	P	324	PRO
1	a	1022	GLY
1	a	1376	GLY
1	a	1549	PRO
2	b	1117	PRO
3	c	1410	PRO
5	e	1493	GLY
8	h	1284	ILE
8	h	1324	PRO
1	i	1022	GLY
1	i	1376	GLY
1	i	1549	PRO
2	j	1117	PRO
3	k	1410	PRO

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Mol	Chain	Res	Type
5	m	1493	GLY
8	p	1284	ILE
8	p	1324	PRO
1	A	292	GLY
2	B	88	VAL
5	E	440	VAL
1	I	292	GLY
2	J	88	VAL
5	M	440	VAL
1	a	1292	GLY
2	b	1088	VAL
5	e	1440	VAL
1	i	1292	GLY
2	j	1088	VAL
5	m	1440	VAL
7	G	412	GLY
7	G	528	GLY
7	O	412	GLY
7	O	528	GLY
7	g	1412	GLY
7	g	1528	GLY
7	o	1412	GLY
7	o	1528	GLY
3	C	142	PRO
5	E	386	GLY
6	F	412	ILE
7	G	62	ILE
3	K	142	PRO
5	M	386	GLY
6	N	412	ILE
6	N	512	VAL
7	O	62	ILE
3	c	1142	PRO
5	e	1386	GLY
6	f	1412	ILE
7	g	1062	ILE
3	k	1142	PRO
5	m	1386	GLY
6	n	1412	ILE
7	o	1062	ILE
3	C	50	ASP
5	E	507	ILE

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Mol	Chain	Res	Type
6	F	512	VAL
3	K	50	ASP
5	M	507	ILE
5	e	1507	ILE
6	f	1512	VAL
3	k	1050	ASP
5	m	1507	ILE
6	n	1512	VAL

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	301/471 (64%)	272 (90%)	29 (10%)	8	29
1	I	301/471 (64%)	272 (90%)	29 (10%)	8	29
1	a	301/471 (64%)	272 (90%)	29 (10%)	8	29
1	i	301/471 (64%)	272 (90%)	29 (10%)	8	29
2	B	320/441 (73%)	264 (82%)	56 (18%)	2	12
2	J	320/441 (73%)	264 (82%)	56 (18%)	2	12
2	b	320/441 (73%)	263 (82%)	57 (18%)	2	12
2	j	319/441 (72%)	263 (82%)	56 (18%)	2	12
3	C	295/497 (59%)	267 (90%)	28 (10%)	8	30
3	K	296/497 (60%)	268 (90%)	28 (10%)	8	30
3	c	297/497 (60%)	269 (91%)	28 (9%)	8	30
3	k	297/497 (60%)	269 (91%)	28 (9%)	8	30
4	D	290/454 (64%)	257 (89%)	33 (11%)	5	23
4	L	290/454 (64%)	257 (89%)	33 (11%)	5	23
4	d	290/454 (64%)	258 (89%)	32 (11%)	6	24
4	l	290/454 (64%)	257 (89%)	33 (11%)	5	23
5	E	293/483 (61%)	262 (89%)	31 (11%)	6	26

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	M	293/483 (61%)	262 (89%)	31 (11%)	6	26
5	e	293/483 (61%)	262 (89%)	31 (11%)	6	26
5	m	293/483 (61%)	262 (89%)	31 (11%)	6	26
6	F	334/463 (72%)	261 (78%)	73 (22%)	1	6
6	N	333/463 (72%)	260 (78%)	73 (22%)	1	6
6	f	334/463 (72%)	259 (78%)	75 (22%)	1	5
6	n	333/463 (72%)	259 (78%)	74 (22%)	1	5
7	G	275/454 (61%)	238 (86%)	37 (14%)	4	19
7	O	274/454 (60%)	237 (86%)	37 (14%)	4	19
7	g	274/454 (60%)	237 (86%)	37 (14%)	4	19
7	o	274/454 (60%)	237 (86%)	37 (14%)	4	19
8	H	307/473 (65%)	270 (88%)	37 (12%)	5	21
8	P	307/473 (65%)	270 (88%)	37 (12%)	5	21
8	h	306/473 (65%)	269 (88%)	37 (12%)	5	21
8	p	307/473 (65%)	270 (88%)	37 (12%)	5	21
All	All	9658/14944 (65%)	8359 (87%)	1299 (13%)	4	19

All (1299) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	8	SER
1	A	13	LEU
1	A	25	ILE
1	A	39	VAL
1	A	44	LEU
1	A	74	ASP
1	A	76	GLN
1	A	90	GLN
1	A	91	ASP
1	A	92	ARG
1	A	119	LYS
1	A	120	ILE
1	A	187	VAL
1	A	204	ASN
1	A	225	ASN
1	A	226	CYS
1	A	228	VAL

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Mol	Chain	Res	Type
1	A	248	ASP
1	A	250	ASN
1	A	273	ILE
1	A	344	LEU
1	A	402	LEU
1	A	419	VAL
1	A	446	LEU
1	A	484	SER
1	A	496	SER
1	A	532	LEU
1	A	547	VAL
1	A	548	ASP
2	B	3	VAL
2	B	4	GLN
2	B	5	ILE
2	B	27	ILE
2	B	31	ASP
2	B	32	LEU
2	B	33	VAL
2	B	35	SER
2	B	57	THR
2	B	58	ASN
2	B	66	SER
2	B	80	ILE
2	B	92	THR
2	B	145	ASP
2	B	149	PHE
2	B	170	LYS
2	B	176	LEU
2	B	197	LYS
2	B	203	LEU
2	B	213	ILE
2	B	217	LYS
2	B	231	ILE
2	B	233	ILE
2	B	238	LEU
2	B	239	ASP
2	B	245	ILE
2	B	246	PHE
2	B	268	LYS
2	B	285	ILE
2	B	287	ARG

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Mol	Chain	Res	Type
2	B	289	LEU
2	B	307	GLU
2	B	329	PHE
2	B	331	GLU
2	B	350	GLU
2	B	357	SER
2	B	373	THR
2	B	379	GLU
2	B	382	ARG
2	B	399	ARG
2	B	406	CYS
2	B	409	MET
2	B	427	SER
2	B	444	LEU
2	B	462	SER
2	B	463	ILE
2	B	465	ASN
2	B	467	ILE
2	B	469	THR
2	B	474	LEU
2	B	475	ASN
2	B	490	SER
2	B	492	LYS
2	B	507	VAL
2	B	508	LEU
2	B	512	ASP
3	C	8	MET
3	C	25	ILE
3	C	26	THR
3	C	34	VAL
3	C	44	MET
3	C	48	LEU
3	C	57	LEU
3	C	64	ILE
3	C	67	GLU
3	C	89	VAL
3	C	143	VAL
3	C	165	ILE
3	C	182	VAL
3	C	184	LYS
3	C	209	ILE
3	C	226	ASN

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Mol	Chain	Res	Type
3	C	239	GLU
3	C	248	CYS
3	C	250	LEU
3	C	259	THR
3	C	265	LYS
3	C	297	THR
3	C	302	SER
3	C	433	GLN
3	C	456	LEU
3	C	491	ILE
3	C	492	VAL
3	C	519	LEU
4	D	70	ILE
4	D	94	THR
4	D	95	SER
4	D	98	ILE
4	D	100	THR
4	D	103	LEU
4	D	135	LEU
4	D	144	LEU
4	D	146	ASP
4	D	147	ARG
4	D	161	LYS
4	D	175	VAL
4	D	187	LYS
4	D	194	ILE
4	D	198	LYS
4	D	209	MET
4	D	210	ILE
4	D	241	ILE
4	D	252	ILE
4	D	253	ILE
4	D	263	ILE
4	D	271	LEU
4	D	292	ILE
4	D	363	VAL
4	D	379	ILE
4	D	385	MET
4	D	392	ARG
4	D	410	LEU
4	D	424	ARG
4	D	482	ILE

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Mol	Chain	Res	Type
4	D	502	LEU
4	D	519	LEU
4	D	528	ARG
5	E	51	ILE
5	E	61	ILE
5	E	82	THR
5	E	86	ASP
5	E	93	GLN
5	E	103	LEU
5	E	106	GLN
5	E	107	LEU
5	E	108	SER
5	E	109	LYS
5	E	124	VAL
5	E	148	ASN
5	E	169	SER
5	E	175	LEU
5	E	187	SER
5	E	210	ASN
5	E	241	ASN
5	E	245	LEU
5	E	273	THR
5	E	283	THR
5	E	324	GLN
5	E	325	TRP
5	E	351	LEU
5	E	352	GLU
5	E	382	GLU
5	E	396	GLU
5	E	440	VAL
5	E	483	LEU
5	E	492	ILE
5	E	507	ILE
5	E	547	MET
6	F	1	MET
6	F	3	LEU
6	F	4	GLN
6	F	5	LEU
6	F	6	LEU
6	F	16	ASP
6	F	27	GLU
6	F	37	LEU

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Mol	Chain	Res	Type
6	F	42	THR
6	F	43	LEU
6	F	53	ILE
6	F	62	LEU
6	F	68	ILE
6	F	74	VAL
6	F	93	THR
6	F	102	LEU
6	F	113	VAL
6	F	117	ILE
6	F	133	LEU
6	F	142	ASN
6	F	143	LEU
6	F	152	GLN
6	F	158	LEU
6	F	167	THR
6	F	171	THR
6	F	183	ASP
6	F	196	ILE
6	F	198	GLN
6	F	209	PHE
6	F	213	LEU
6	F	243	GLU
6	F	246	GLU
6	F	294	VAL
6	F	295	ILE
6	F	321	LYS
6	F	328	LEU
6	F	330	LEU
6	F	338	ASN
6	F	370	ASN
6	F	376	CYS
6	F	378	ILE
6	F	390	GLN
6	F	399	LEU
6	F	406	LEU
6	F	407	LYS
6	F	409	LYS
6	F	420	ILE
6	F	424	ARG
6	F	433	LYS
6	F	434	LEU

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Mol	Chain	Res	Type
6	F	437	LYS
6	F	440	THR
6	F	442	THR
6	F	453	VAL
6	F	454	ILE
6	F	457	THR
6	F	458	LEU
6	F	470	LEU
6	F	477	LEU
6	F	483	SER
6	F	484	ASP
6	F	486	THR
6	F	489	VAL
6	F	502	THR
6	F	513	LEU
6	F	515	ASN
6	F	518	THR
6	F	538	ARG
6	F	540	THR
6	F	541	LEU
6	F	542	LYS
6	F	543	GLU
6	F	544	THR
7	G	36	VAL
7	G	37	GLN
7	G	43	THR
7	G	52	LEU
7	G	58	GLN
7	G	64	ASN
7	G	71	LYS
7	G	75	VAL
7	G	82	THR
7	G	86	ILE
7	G	100	SER
7	G	120	ILE
7	G	123	HIS
7	G	157	LEU
7	G	174	ASN
7	G	191	ARG
7	G	232	GLN
7	G	234	LYS
7	G	285	VAL

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Mol	Chain	Res	Type
7	G	305	GLN
7	G	312	ILE
7	G	334	ILE
7	G	346	LEU
7	G	376	LEU
7	G	377	LEU
7	G	393	LEU
7	G	399	ILE
7	G	400	VAL
7	G	401	LYS
7	G	408	LEU
7	G	410	VAL
7	G	418	MET
7	G	488	ILE
7	G	514	THR
7	G	516	LEU
7	G	525	THR
7	G	527	LYS
8	H	15	LYS
8	H	27	GLN
8	H	28	ILE
8	H	29	ILE
8	H	32	ILE
8	H	62	ILE
8	H	66	ASN
8	H	74	GLU
8	H	76	ASP
8	H	77	ILE
8	H	92	GLN
8	H	94	ILE
8	H	101	ASN
8	H	113	VAL
8	H	146	VAL
8	H	153	LYS
8	H	175	GLU
8	H	209	VAL
8	H	216	SER
8	H	237	LYS
8	H	244	LYS
8	H	267	LEU
8	H	310	LEU
8	H	314	ASN

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Mol	Chain	Res	Type
8	H	316	TYR
8	H	320	VAL
8	H	332	LEU
8	H	352	LEU
8	H	386	LEU
8	H	390	THR
8	H	408	VAL
8	H	430	LEU
8	H	451	GLN
8	H	466	THR
8	H	473	GLU
8	H	494	HIS
8	H	532	THR
1	I	8	SER
1	I	13	LEU
1	I	25	ILE
1	I	39	VAL
1	I	44	LEU
1	I	74	ASP
1	I	76	GLN
1	I	90	GLN
1	I	91	ASP
1	I	92	ARG
1	I	119	LYS
1	I	120	ILE
1	I	187	VAL
1	I	204	ASN
1	I	225	ASN
1	I	226	CYS
1	I	228	VAL
1	I	248	ASP
1	I	250	ASN
1	I	273	ILE
1	I	344	LEU
1	I	402	LEU
1	I	419	VAL
1	I	446	LEU
1	I	484	SER
1	I	496	SER
1	I	532	LEU
1	I	547	VAL
1	I	548	ASP

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Mol	Chain	Res	Type
2	J	3	VAL
2	J	4	GLN
2	J	5	ILE
2	J	27	ILE
2	J	31	ASP
2	J	32	LEU
2	J	33	VAL
2	J	35	SER
2	J	57	THR
2	J	58	ASN
2	J	66	SER
2	J	80	ILE
2	J	92	THR
2	J	145	ASP
2	J	149	PHE
2	J	170	LYS
2	J	176	LEU
2	J	197	LYS
2	J	203	LEU
2	J	213	ILE
2	J	217	LYS
2	J	231	ILE
2	J	233	ILE
2	J	238	LEU
2	J	239	ASP
2	J	245	ILE
2	J	246	PHE
2	J	268	LYS
2	J	285	ILE
2	J	287	ARG
2	J	289	LEU
2	J	307	GLU
2	J	329	PHE
2	J	331	GLU
2	J	350	GLU
2	J	357	SER
2	J	373	THR
2	J	379	GLU
2	J	382	ARG
2	J	399	ARG
2	J	406	CYS
2	J	409	MET

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Mol	Chain	Res	Type
2	J	427	SER
2	J	444	LEU
2	J	462	SER
2	J	463	ILE
2	J	465	ASN
2	J	467	ILE
2	J	469	THR
2	J	474	LEU
2	J	475	ASN
2	J	490	SER
2	J	492	LYS
2	J	507	VAL
2	J	508	LEU
2	J	512	ASP
3	K	8	MET
3	K	25	ILE
3	K	26	THR
3	K	34	VAL
3	K	44	MET
3	K	48	LEU
3	K	57	LEU
3	K	64	ILE
3	K	67	GLU
3	K	89	VAL
3	K	143	VAL
3	K	165	ILE
3	K	182	VAL
3	K	184	LYS
3	K	209	ILE
3	K	226	ASN
3	K	239	GLU
3	K	248	CYS
3	K	250	LEU
3	K	259	THR
3	K	265	LYS
3	K	297	THR
3	K	302	SER
3	K	433	GLN
3	K	456	LEU
3	K	491	ILE
3	K	492	VAL
3	K	519	LEU

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Mol	Chain	Res	Type
4	L	70	ILE
4	L	94	THR
4	L	95	SER
4	L	98	ILE
4	L	100	THR
4	L	103	LEU
4	L	135	LEU
4	L	144	LEU
4	L	146	ASP
4	L	147	ARG
4	L	161	LYS
4	L	175	VAL
4	L	187	LYS
4	L	194	ILE
4	L	198	LYS
4	L	209	MET
4	L	210	ILE
4	L	241	ILE
4	L	252	ILE
4	L	253	ILE
4	L	263	ILE
4	L	271	LEU
4	L	292	ILE
4	L	363	VAL
4	L	379	ILE
4	L	385	MET
4	L	392	ARG
4	L	410	LEU
4	L	424	ARG
4	L	482	ILE
4	L	502	LEU
4	L	519	LEU
4	L	528	ARG
5	M	51	ILE
5	M	61	ILE
5	M	82	THR
5	M	86	ASP
5	M	93	GLN
5	M	103	LEU
5	M	106	GLN
5	M	107	LEU
5	M	108	SER

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Mol	Chain	Res	Type
5	M	109	LYS
5	M	124	VAL
5	M	148	ASN
5	M	169	SER
5	M	175	LEU
5	M	187	SER
5	M	210	ASN
5	M	241	ASN
5	M	245	LEU
5	M	273	THR
5	M	283	THR
5	M	324	GLN
5	M	325	TRP
5	M	351	LEU
5	M	352	GLU
5	M	382	GLU
5	M	396	GLU
5	M	440	VAL
5	M	483	LEU
5	M	492	ILE
5	M	507	ILE
5	M	547	MET
6	N	1	MET
6	N	3	LEU
6	N	4	GLN
6	N	5	LEU
6	N	6	LEU
6	N	16	ASP
6	N	27	GLU
6	N	37	LEU
6	N	42	THR
6	N	53	ILE
6	N	62	LEU
6	N	68	ILE
6	N	74	VAL
6	N	75	LEU
6	N	93	THR
6	N	102	LEU
6	N	113	VAL
6	N	117	ILE
6	N	133	LEU
6	N	142	ASN

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Mol	Chain	Res	Type
6	N	143	LEU
6	N	152	GLN
6	N	158	LEU
6	N	167	THR
6	N	171	THR
6	N	183	ASP
6	N	196	ILE
6	N	198	GLN
6	N	209	PHE
6	N	213	LEU
6	N	243	GLU
6	N	246	GLU
6	N	294	VAL
6	N	295	ILE
6	N	321	LYS
6	N	328	LEU
6	N	330	LEU
6	N	338	ASN
6	N	370	ASN
6	N	376	CYS
6	N	378	ILE
6	N	390	GLN
6	N	399	LEU
6	N	406	LEU
6	N	407	LYS
6	N	409	LYS
6	N	420	ILE
6	N	424	ARG
6	N	433	LYS
6	N	434	LEU
6	N	437	LYS
6	N	440	THR
6	N	442	THR
6	N	453	VAL
6	N	454	ILE
6	N	457	THR
6	N	458	LEU
6	N	470	LEU
6	N	477	LEU
6	N	483	SER
6	N	484	ASP
6	N	486	THR

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Mol	Chain	Res	Type
6	N	489	VAL
6	N	502	THR
6	N	513	LEU
6	N	515	ASN
6	N	518	THR
6	N	538	ARG
6	N	540	THR
6	N	541	LEU
6	N	542	LYS
6	N	543	GLU
6	N	544	THR
7	O	36	VAL
7	O	37	GLN
7	O	43	THR
7	O	52	LEU
7	O	58	GLN
7	O	64	ASN
7	O	71	LYS
7	O	75	VAL
7	O	82	THR
7	O	86	ILE
7	O	100	SER
7	O	120	ILE
7	O	123	HIS
7	O	157	LEU
7	O	174	ASN
7	O	191	ARG
7	O	232	GLN
7	O	234	LYS
7	O	285	VAL
7	O	305	GLN
7	O	312	ILE
7	O	334	ILE
7	O	346	LEU
7	O	376	LEU
7	O	377	LEU
7	O	393	LEU
7	O	399	ILE
7	O	400	VAL
7	O	401	LYS
7	O	408	LEU
7	O	410	VAL

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Mol	Chain	Res	Type
7	O	418	MET
7	O	488	ILE
7	O	514	THR
7	O	516	LEU
7	O	525	THR
7	O	527	LYS
8	P	15	LYS
8	P	27	GLN
8	P	28	ILE
8	P	29	ILE
8	P	32	ILE
8	P	62	ILE
8	P	66	ASN
8	P	74	GLU
8	P	76	ASP
8	P	77	ILE
8	P	92	GLN
8	P	94	ILE
8	P	101	ASN
8	P	113	VAL
8	P	146	VAL
8	P	153	LYS
8	P	175	GLU
8	P	209	VAL
8	P	216	SER
8	P	237	LYS
8	P	244	LYS
8	P	267	LEU
8	P	310	LEU
8	P	314	ASN
8	P	316	TYR
8	P	320	VAL
8	P	332	LEU
8	P	352	LEU
8	P	386	LEU
8	P	390	THR
8	P	408	VAL
8	P	430	LEU
8	P	451	GLN
8	P	466	THR
8	P	473	GLU
8	P	494	HIS

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Mol	Chain	Res	Type
8	P	532	THR
1	a	1008	SER
1	a	1013	LEU
1	a	1025	ILE
1	a	1039	VAL
1	a	1044	LEU
1	a	1074	ASP
1	a	1076	GLN
1	a	1090	GLN
1	a	1091	ASP
1	a	1092	ARG
1	a	1119	LYS
1	a	1120	ILE
1	a	1187	VAL
1	a	1204	ASN
1	a	1225	ASN
1	a	1226	CYS
1	a	1228	VAL
1	a	1248	ASP
1	a	1250	ASN
1	a	1273	ILE
1	a	1344	LEU
1	a	1402	LEU
1	a	1419	VAL
1	a	1446	LEU
1	a	1484	SER
1	a	1496	SER
1	a	1532	LEU
1	a	1547	VAL
1	a	1548	ASP
2	b	1003	VAL
2	b	1004	GLN
2	b	1005	ILE
2	b	1027	ILE
2	b	1031	ASP
2	b	1032	LEU
2	b	1033	VAL
2	b	1035	SER
2	b	1057	THR
2	b	1058	ASN
2	b	1066	SER
2	b	1080	ILE

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Mol	Chain	Res	Type
2	b	1092	THR
2	b	1145	ASP
2	b	1149	PHE
2	b	1170	LYS
2	b	1176	LEU
2	b	1197	LYS
2	b	1203	LEU
2	b	1213	ILE
2	b	1217	LYS
2	b	1231	ILE
2	b	1233	ILE
2	b	1238	LEU
2	b	1239	ASP
2	b	1245	ILE
2	b	1246	PHE
2	b	1268	LYS
2	b	1285	ILE
2	b	1287	ARG
2	b	1289	LEU
2	b	1307	GLU
2	b	1329	PHE
2	b	1331	GLU
2	b	1348	LEU
2	b	1350	GLU
2	b	1357	SER
2	b	1373	THR
2	b	1379	GLU
2	b	1382	ARG
2	b	1399	ARG
2	b	1406	CYS
2	b	1409	MET
2	b	1427	SER
2	b	1444	LEU
2	b	1462	SER
2	b	1463	ILE
2	b	1465	ASN
2	b	1467	ILE
2	b	1469	THR
2	b	1474	LEU
2	b	1475	ASN
2	b	1490	SER
2	b	1492	LYS

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Mol	Chain	Res	Type
2	b	1507	VAL
2	b	1508	LEU
2	b	1512	ASP
3	c	1008	MET
3	c	1025	ILE
3	c	1026	THR
3	c	1034	VAL
3	c	1044	MET
3	c	1048	LEU
3	c	1057	LEU
3	c	1064	ILE
3	c	1067	GLU
3	c	1089	VAL
3	c	1143	VAL
3	c	1165	ILE
3	c	1182	VAL
3	c	1184	LYS
3	c	1209	ILE
3	c	1226	ASN
3	c	1239	GLU
3	c	1248	CYS
3	c	1250	LEU
3	c	1259	THR
3	c	1265	LYS
3	c	1297	THR
3	c	1302	SER
3	c	1433	GLN
3	c	1456	LEU
3	c	1491	ILE
3	c	1492	VAL
3	c	1519	LEU
4	d	1070	ILE
4	d	1094	THR
4	d	1095	SER
4	d	1098	ILE
4	d	1100	THR
4	d	1135	LEU
4	d	1144	LEU
4	d	1146	ASP
4	d	1147	ARG
4	d	1161	LYS
4	d	1175	VAL

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Mol	Chain	Res	Type
4	d	1187	LYS
4	d	1194	ILE
4	d	1198	LYS
4	d	1209	MET
4	d	1210	ILE
4	d	1241	ILE
4	d	1252	ILE
4	d	1253	ILE
4	d	1263	ILE
4	d	1271	LEU
4	d	1292	ILE
4	d	1363	VAL
4	d	1379	ILE
4	d	1385	MET
4	d	1392	ARG
4	d	1410	LEU
4	d	1424	ARG
4	d	1482	ILE
4	d	1502	LEU
4	d	1519	LEU
4	d	1528	ARG
5	e	1051	ILE
5	e	1061	ILE
5	e	1082	THR
5	e	1086	ASP
5	e	1093	GLN
5	e	1103	LEU
5	e	1106	GLN
5	e	1107	LEU
5	e	1108	SER
5	e	1109	LYS
5	e	1124	VAL
5	e	1148	ASN
5	e	1169	SER
5	e	1175	LEU
5	e	1187	SER
5	e	1210	ASN
5	e	1241	ASN
5	e	1245	LEU
5	e	1273	THR
5	e	1283	THR
5	e	1324	GLN

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Mol	Chain	Res	Type
5	e	1325	TRP
5	e	1351	LEU
5	e	1352	GLU
5	e	1382	GLU
5	e	1396	GLU
5	e	1440	VAL
5	e	1483	LEU
5	e	1492	ILE
5	e	1507	ILE
5	e	1547	MET
6	f	1001	MET
6	f	1003	LEU
6	f	1004	GLN
6	f	1005	LEU
6	f	1006	LEU
6	f	1016	ASP
6	f	1027	GLU
6	f	1037	LEU
6	f	1042	THR
6	f	1043	LEU
6	f	1053	ILE
6	f	1062	LEU
6	f	1068	ILE
6	f	1074	VAL
6	f	1075	LEU
6	f	1093	THR
6	f	1102	LEU
6	f	1113	VAL
6	f	1117	ILE
6	f	1133	LEU
6	f	1142	ASN
6	f	1143	LEU
6	f	1152	GLN
6	f	1158	LEU
6	f	1167	THR
6	f	1171	THR
6	f	1183	ASP
6	f	1196	ILE
6	f	1198	GLN
6	f	1209	PHE
6	f	1213	LEU
6	f	1243	GLU

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Mol	Chain	Res	Type
6	f	1246	GLU
6	f	1294	VAL
6	f	1295	ILE
6	f	1321	LYS
6	f	1328	LEU
6	f	1330	LEU
6	f	1338	ASN
6	f	1370	ASN
6	f	1376	CYS
6	f	1378	ILE
6	f	1390	GLN
6	f	1399	LEU
6	f	1406	LEU
6	f	1407	LYS
6	f	1409	LYS
6	f	1420	ILE
6	f	1424	ARG
6	f	1433	LYS
6	f	1434	LEU
6	f	1437	LYS
6	f	1439	LYS
6	f	1440	THR
6	f	1442	THR
6	f	1453	VAL
6	f	1454	ILE
6	f	1457	THR
6	f	1458	LEU
6	f	1470	LEU
6	f	1477	LEU
6	f	1483	SER
6	f	1484	ASP
6	f	1486	THR
6	f	1489	VAL
6	f	1502	THR
6	f	1513	LEU
6	f	1515	ASN
6	f	1518	THR
6	f	1538	ARG
6	f	1540	THR
6	f	1541	LEU
6	f	1542	LYS
6	f	1543	GLU

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Mol	Chain	Res	Type
6	f	1544	THR
7	g	1036	VAL
7	g	1037	GLN
7	g	1043	THR
7	g	1052	LEU
7	g	1058	GLN
7	g	1064	ASN
7	g	1071	LYS
7	g	1075	VAL
7	g	1082	THR
7	g	1086	ILE
7	g	1100	SER
7	g	1120	ILE
7	g	1123	HIS
7	g	1157	LEU
7	g	1174	ASN
7	g	1191	ARG
7	g	1232	GLN
7	g	1234	LYS
7	g	1285	VAL
7	g	1305	GLN
7	g	1312	ILE
7	g	1334	ILE
7	g	1346	LEU
7	g	1376	LEU
7	g	1377	LEU
7	g	1393	LEU
7	g	1399	ILE
7	g	1400	VAL
7	g	1401	LYS
7	g	1408	LEU
7	g	1410	VAL
7	g	1418	MET
7	g	1488	ILE
7	g	1514	THR
7	g	1516	LEU
7	g	1525	THR
7	g	1527	LYS
8	h	1015	LYS
8	h	1027	GLN
8	h	1028	ILE
8	h	1029	ILE

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Mol	Chain	Res	Type
8	h	1032	ILE
8	h	1062	ILE
8	h	1066	ASN
8	h	1074	GLU
8	h	1076	ASP
8	h	1077	ILE
8	h	1092	GLN
8	h	1094	ILE
8	h	1101	ASN
8	h	1113	VAL
8	h	1146	VAL
8	h	1153	LYS
8	h	1175	GLU
8	h	1209	VAL
8	h	1216	SER
8	h	1237	LYS
8	h	1244	LYS
8	h	1267	LEU
8	h	1310	LEU
8	h	1314	ASN
8	h	1316	TYR
8	h	1320	VAL
8	h	1332	LEU
8	h	1352	LEU
8	h	1386	LEU
8	h	1390	THR
8	h	1408	VAL
8	h	1430	LEU
8	h	1451	GLN
8	h	1466	THR
8	h	1473	GLU
8	h	1494	HIS
8	h	1532	THR
1	i	1008	SER
1	i	1013	LEU
1	i	1025	ILE
1	i	1039	VAL
1	i	1044	LEU
1	i	1074	ASP
1	i	1076	GLN
1	i	1090	GLN
1	i	1091	ASP

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Mol	Chain	Res	Type
1	i	1092	ARG
1	i	1119	LYS
1	i	1120	ILE
1	i	1187	VAL
1	i	1204	ASN
1	i	1225	ASN
1	i	1226	CYS
1	i	1228	VAL
1	i	1248	ASP
1	i	1250	ASN
1	i	1273	ILE
1	i	1344	LEU
1	i	1402	LEU
1	i	1419	VAL
1	i	1446	LEU
1	i	1484	SER
1	i	1496	SER
1	i	1532	LEU
1	i	1547	VAL
1	i	1548	ASP
2	j	1003	VAL
2	j	1004	GLN
2	j	1005	ILE
2	j	1027	ILE
2	j	1031	ASP
2	j	1032	LEU
2	j	1033	VAL
2	j	1035	SER
2	j	1057	THR
2	j	1058	ASN
2	j	1066	SER
2	j	1080	ILE
2	j	1092	THR
2	j	1145	ASP
2	j	1149	PHE
2	j	1170	LYS
2	j	1176	LEU
2	j	1197	LYS
2	j	1203	LEU
2	j	1213	ILE
2	j	1217	LYS
2	j	1231	ILE

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Mol	Chain	Res	Type
2	j	1233	ILE
2	j	1238	LEU
2	j	1239	ASP
2	j	1245	ILE
2	j	1246	PHE
2	j	1268	LYS
2	j	1285	ILE
2	j	1287	ARG
2	j	1289	LEU
2	j	1307	GLU
2	j	1329	PHE
2	j	1331	GLU
2	j	1350	GLU
2	j	1357	SER
2	j	1373	THR
2	j	1379	GLU
2	j	1382	ARG
2	j	1399	ARG
2	j	1406	CYS
2	j	1409	MET
2	j	1427	SER
2	j	1444	LEU
2	j	1462	SER
2	j	1463	ILE
2	j	1465	ASN
2	j	1467	ILE
2	j	1469	THR
2	j	1474	LEU
2	j	1475	ASN
2	j	1490	SER
2	j	1492	LYS
2	j	1507	VAL
2	j	1508	LEU
2	j	1512	ASP
3	k	1008	MET
3	k	1025	ILE
3	k	1026	THR
3	k	1034	VAL
3	k	1044	MET
3	k	1048	LEU
3	k	1057	LEU
3	k	1064	ILE

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Mol	Chain	Res	Type
3	k	1067	GLU
3	k	1089	VAL
3	k	1143	VAL
3	k	1165	ILE
3	k	1182	VAL
3	k	1184	LYS
3	k	1209	ILE
3	k	1226	ASN
3	k	1239	GLU
3	k	1248	CYS
3	k	1250	LEU
3	k	1259	THR
3	k	1265	LYS
3	k	1297	THR
3	k	1302	SER
3	k	1433	GLN
3	k	1456	LEU
3	k	1491	ILE
3	k	1492	VAL
3	k	1519	LEU
4	l	1070	ILE
4	l	1094	THR
4	l	1095	SER
4	l	1098	ILE
4	l	1100	THR
4	l	1103	LEU
4	l	1135	LEU
4	l	1144	LEU
4	l	1146	ASP
4	l	1147	ARG
4	l	1161	LYS
4	l	1175	VAL
4	l	1187	LYS
4	l	1194	ILE
4	l	1198	LYS
4	l	1209	MET
4	l	1210	ILE
4	l	1241	ILE
4	l	1252	ILE
4	l	1253	ILE
4	l	1263	ILE
4	l	1271	LEU

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Mol	Chain	Res	Type
4	l	1292	ILE
4	l	1363	VAL
4	l	1379	ILE
4	l	1385	MET
4	l	1392	ARG
4	l	1410	LEU
4	l	1424	ARG
4	l	1482	ILE
4	l	1502	LEU
4	l	1519	LEU
4	l	1528	ARG
5	m	1051	ILE
5	m	1061	ILE
5	m	1082	THR
5	m	1086	ASP
5	m	1093	GLN
5	m	1103	LEU
5	m	1106	GLN
5	m	1107	LEU
5	m	1108	SER
5	m	1109	LYS
5	m	1124	VAL
5	m	1148	ASN
5	m	1169	SER
5	m	1175	LEU
5	m	1187	SER
5	m	1210	ASN
5	m	1241	ASN
5	m	1245	LEU
5	m	1273	THR
5	m	1283	THR
5	m	1324	GLN
5	m	1325	TRP
5	m	1351	LEU
5	m	1352	GLU
5	m	1382	GLU
5	m	1396	GLU
5	m	1440	VAL
5	m	1483	LEU
5	m	1492	ILE
5	m	1507	ILE
5	m	1547	MET

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Mol	Chain	Res	Type
6	n	1001	MET
6	n	1003	LEU
6	n	1004	GLN
6	n	1005	LEU
6	n	1006	LEU
6	n	1016	ASP
6	n	1027	GLU
6	n	1037	LEU
6	n	1042	THR
6	n	1043	LEU
6	n	1053	ILE
6	n	1062	LEU
6	n	1068	ILE
6	n	1074	VAL
6	n	1075	LEU
6	n	1093	THR
6	n	1102	LEU
6	n	1113	VAL
6	n	1117	ILE
6	n	1133	LEU
6	n	1142	ASN
6	n	1143	LEU
6	n	1152	GLN
6	n	1158	LEU
6	n	1167	THR
6	n	1171	THR
6	n	1183	ASP
6	n	1196	ILE
6	n	1198	GLN
6	n	1209	PHE
6	n	1213	LEU
6	n	1243	GLU
6	n	1246	GLU
6	n	1294	VAL
6	n	1295	ILE
6	n	1321	LYS
6	n	1328	LEU
6	n	1330	LEU
6	n	1338	ASN
6	n	1370	ASN
6	n	1376	CYS
6	n	1378	ILE

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Mol	Chain	Res	Type
6	n	1390	GLN
6	n	1399	LEU
6	n	1406	LEU
6	n	1407	LYS
6	n	1409	LYS
6	n	1420	ILE
6	n	1424	ARG
6	n	1433	LYS
6	n	1434	LEU
6	n	1437	LYS
6	n	1440	THR
6	n	1442	THR
6	n	1453	VAL
6	n	1454	ILE
6	n	1457	THR
6	n	1458	LEU
6	n	1470	LEU
6	n	1477	LEU
6	n	1483	SER
6	n	1484	ASP
6	n	1486	THR
6	n	1489	VAL
6	n	1502	THR
6	n	1513	LEU
6	n	1515	ASN
6	n	1518	THR
6	n	1538	ARG
6	n	1540	THR
6	n	1541	LEU
6	n	1542	LYS
6	n	1543	GLU
6	n	1544	THR
7	o	1036	VAL
7	o	1037	GLN
7	o	1043	THR
7	o	1052	LEU
7	o	1058	GLN
7	o	1064	ASN
7	o	1071	LYS
7	o	1075	VAL
7	o	1082	THR
7	o	1086	ILE

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Mol	Chain	Res	Type
7	o	1100	SER
7	o	1120	ILE
7	o	1123	HIS
7	o	1157	LEU
7	o	1174	ASN
7	o	1191	ARG
7	o	1232	GLN
7	o	1234	LYS
7	o	1285	VAL
7	o	1305	GLN
7	o	1312	ILE
7	o	1334	ILE
7	o	1346	LEU
7	o	1376	LEU
7	o	1377	LEU
7	o	1393	LEU
7	o	1399	ILE
7	o	1400	VAL
7	o	1401	LYS
7	o	1408	LEU
7	o	1410	VAL
7	o	1418	MET
7	o	1488	ILE
7	o	1514	THR
7	o	1516	LEU
7	o	1525	THR
7	o	1527	LYS
8	p	1015	LYS
8	p	1027	GLN
8	p	1028	ILE
8	p	1029	ILE
8	p	1032	ILE
8	p	1062	ILE
8	p	1066	ASN
8	p	1074	GLU
8	p	1076	ASP
8	p	1077	ILE
8	p	1092	GLN
8	p	1094	ILE
8	p	1101	ASN
8	p	1113	VAL
8	p	1146	VAL

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Mol	Chain	Res	Type
8	p	1153	LYS
8	p	1175	GLU
8	p	1209	VAL
8	p	1216	SER
8	p	1237	LYS
8	p	1244	LYS
8	p	1267	LEU
8	p	1310	LEU
8	p	1314	ASN
8	p	1316	TYR
8	p	1320	VAL
8	p	1332	LEU
8	p	1352	LEU
8	p	1386	LEU
8	p	1390	THR
8	p	1408	VAL
8	p	1430	LEU
8	p	1451	GLN
8	p	1466	THR
8	p	1473	GLU
8	p	1494	HIS
8	p	1532	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (303) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	64	ASN
1	A	90	GLN
1	A	113	ASN
1	A	121	HIS
1	A	178	ASN
1	A	204	ASN
1	A	209	HIS
1	A	250	ASN
1	A	252	GLN
1	A	363	GLN
1	A	391	ASN
1	A	435	ASN
2	B	4	GLN
2	B	9	GLN
2	B	58	ASN
2	B	116	HIS

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Mol	Chain	Res	Type
2	B	228	ASN
2	B	235	ASN
2	B	260	GLN
2	B	271	ASN
2	B	286	ASN
2	B	375	GLN
2	B	385	HIS
2	B	393	GLN
2	B	439	GLN
2	B	475	ASN
3	C	9	ASN
3	C	12	GLN
3	C	24	ASN
3	C	85	GLN
3	C	166	HIS
3	C	270	ASN
3	C	325	ASN
3	C	433	GLN
3	C	439	GLN
3	C	508	GLN
4	D	59	ASN
4	D	72	HIS
4	D	217	GLN
4	D	238	GLN
4	D	259	GLN
4	D	384	ASN
4	D	461	ASN
4	D	499	GLN
5	E	37	ASN
5	E	50	HIS
5	E	93	GLN
5	E	106	GLN
5	E	132	GLN
5	E	210	ASN
5	E	296	GLN
5	E	324	GLN
5	E	338	ASN
5	E	466	GLN
5	E	553	ASN
6	F	104	GLN
6	F	110	GLN
6	F	198	GLN

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Mol	Chain	Res	Type
6	F	217	HIS
6	F	221	HIS
6	F	337	GLN
6	F	494	ASN
6	F	515	ASN
7	G	37	GLN
7	G	58	GLN
7	G	268	GLN
7	G	305	GLN
7	G	472	HIS
7	G	526	ASN
8	H	27	GLN
8	H	66	ASN
8	H	79	HIS
8	H	92	GLN
8	H	101	ASN
8	H	188	HIS
8	H	283	GLN
8	H	373	GLN
8	H	446	GLN
8	H	451	GLN
1	I	29	ASN
1	I	64	ASN
1	I	90	GLN
1	I	113	ASN
1	I	121	HIS
1	I	178	ASN
1	I	204	ASN
1	I	209	HIS
1	I	250	ASN
1	I	252	GLN
1	I	363	GLN
1	I	391	ASN
1	I	435	ASN
2	J	4	GLN
2	J	9	GLN
2	J	58	ASN
2	J	116	HIS
2	J	228	ASN
2	J	235	ASN
2	J	260	GLN
2	J	271	ASN

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Mol	Chain	Res	Type
2	J	286	ASN
2	J	375	GLN
2	J	393	GLN
2	J	439	GLN
2	J	475	ASN
3	K	9	ASN
3	K	24	ASN
3	K	117	HIS
3	K	166	HIS
3	K	325	ASN
3	K	433	GLN
3	K	439	GLN
4	L	59	ASN
4	L	72	HIS
4	L	217	GLN
4	L	238	GLN
4	L	259	GLN
4	L	384	ASN
4	L	461	ASN
4	L	499	GLN
5	M	37	ASN
5	M	50	HIS
5	M	93	GLN
5	M	106	GLN
5	M	132	GLN
5	M	142	HIS
5	M	210	ASN
5	M	296	GLN
5	M	324	GLN
5	M	338	ASN
5	M	466	GLN
6	N	104	GLN
6	N	110	GLN
6	N	198	GLN
6	N	217	HIS
6	N	221	HIS
6	N	337	GLN
6	N	515	ASN
7	O	37	GLN
7	O	58	GLN
7	O	238	ASN
7	O	305	GLN

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Mol	Chain	Res	Type
7	O	356	GLN
7	O	472	HIS
7	O	526	ASN
8	P	27	GLN
8	P	66	ASN
8	P	79	HIS
8	P	92	GLN
8	P	101	ASN
8	P	188	HIS
8	P	373	GLN
8	P	446	GLN
8	P	451	GLN
8	P	472	ASN
1	a	1064	ASN
1	a	1090	GLN
1	a	1113	ASN
1	a	1121	HIS
1	a	1178	ASN
1	a	1204	ASN
1	a	1209	HIS
1	a	1250	ASN
1	a	1252	GLN
1	a	1363	GLN
1	a	1391	ASN
2	b	1004	GLN
2	b	1009	GLN
2	b	1058	ASN
2	b	1116	HIS
2	b	1228	ASN
2	b	1235	ASN
2	b	1260	GLN
2	b	1271	ASN
2	b	1286	ASN
2	b	1375	GLN
2	b	1393	GLN
2	b	1439	GLN
2	b	1475	ASN
3	c	1009	ASN
3	c	1024	ASN
3	c	1085	GLN
3	c	1117	HIS
3	c	1166	HIS

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Mol	Chain	Res	Type
3	c	1325	ASN
3	c	1433	GLN
3	c	1439	GLN
3	c	1508	GLN
4	d	1059	ASN
4	d	1072	HIS
4	d	1217	GLN
4	d	1238	GLN
4	d	1259	GLN
4	d	1384	ASN
4	d	1461	ASN
4	d	1499	GLN
5	e	1035	GLN
5	e	1037	ASN
5	e	1050	HIS
5	e	1093	GLN
5	e	1106	GLN
5	e	1132	GLN
5	e	1142	HIS
5	e	1210	ASN
5	e	1296	GLN
5	e	1324	GLN
5	e	1338	ASN
5	e	1466	GLN
6	f	1110	GLN
6	f	1192	HIS
6	f	1198	GLN
6	f	1217	HIS
6	f	1221	HIS
6	f	1494	ASN
6	f	1515	ASN
7	g	1037	GLN
7	g	1058	GLN
7	g	1238	ASN
7	g	1305	GLN
7	g	1356	GLN
7	g	1472	HIS
8	h	1027	GLN
8	h	1066	ASN
8	h	1079	HIS
8	h	1092	GLN
8	h	1101	ASN

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Mol	Chain	Res	Type
8	h	1188	HIS
8	h	1373	GLN
8	h	1446	GLN
8	h	1451	GLN
1	i	1064	ASN
1	i	1090	GLN
1	i	1121	HIS
1	i	1178	ASN
1	i	1204	ASN
1	i	1209	HIS
1	i	1250	ASN
1	i	1252	GLN
1	i	1363	GLN
1	i	1391	ASN
1	i	1435	ASN
2	j	1004	GLN
2	j	1009	GLN
2	j	1058	ASN
2	j	1116	HIS
2	j	1228	ASN
2	j	1235	ASN
2	j	1260	GLN
2	j	1271	ASN
2	j	1286	ASN
2	j	1375	GLN
2	j	1393	GLN
2	j	1439	GLN
2	j	1475	ASN
3	k	1009	ASN
3	k	1024	ASN
3	k	1085	GLN
3	k	1117	HIS
3	k	1166	HIS
3	k	1433	GLN
3	k	1439	GLN
3	k	1508	GLN
4	l	1059	ASN
4	l	1072	HIS
4	l	1217	GLN
4	l	1238	GLN
4	l	1259	GLN
4	l	1384	ASN

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Mol	Chain	Res	Type
4	l	1461	ASN
4	l	1499	GLN
5	m	1035	GLN
5	m	1037	ASN
5	m	1050	HIS
5	m	1093	GLN
5	m	1132	GLN
5	m	1210	ASN
5	m	1296	GLN
5	m	1324	GLN
5	m	1338	ASN
5	m	1466	GLN
5	m	1553	ASN
6	n	1104	GLN
6	n	1110	GLN
6	n	1198	GLN
6	n	1217	HIS
6	n	1221	HIS
6	n	1494	ASN
6	n	1515	ASN
7	o	1037	GLN
7	o	1058	GLN
7	o	1268	GLN
7	o	1305	GLN
7	o	1472	HIS
7	o	1526	ASN
8	p	1027	GLN
8	p	1066	ASN
8	p	1079	HIS
8	p	1092	GLN
8	p	1101	ASN
8	p	1188	HIS
8	p	1373	GLN
8	p	1446	GLN
8	p	1451	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

56 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
10	BEF	H	602	-	0,3,3	-	-	-		
10	BEF	p	1602	9	0,3,3	-	-	-		
9	ADP	f	1601	-	28,29,29	2.30	8 (28%)	43,45,45	2.17	16 (37%)
10	BEF	G	602	-	0,3,3	-	-	-		
11	SO4	I	600	-	4,4,4	0.26	0	6,6,6	0.17	0
9	ADP	H	601	-	28,29,29	2.28	9 (32%)	43,45,45	2.06	14 (32%)
9	ADP	g	1601	-	28,29,29	2.32	9 (32%)	43,45,45	2.13	16 (37%)
10	BEF	b	1602	9	0,3,3	-	-	-		
10	BEF	J	602	9	0,3,3	-	-	-		
9	ADP	D	601	-	28,29,29	2.33	9 (32%)	43,45,45	2.16	14 (32%)
10	BEF	l	1602	9	0,3,3	-	-	-		
9	ADP	F	601	-	28,29,29	2.36	9 (32%)	43,45,45	2.15	16 (37%)
10	BEF	h	1602	9	0,3,3	-	-	-		
9	ADP	k	2101	10	28,29,29	2.32	9 (32%)	43,45,45	2.14	16 (37%)
10	BEF	k	2102	9	0,3,3	-	-	-		
9	ADP	a	1601	-	28,29,29	2.28	9 (32%)	43,45,45	2.16	14 (32%)
9	ADP	N	601	10	28,29,29	2.27	9 (32%)	43,45,45	2.17	17 (39%)
10	BEF	N	602	9	0,3,3	-	-	-		
9	ADP	L	601	-	28,29,29	2.31	9 (32%)	43,45,45	2.13	15 (34%)
11	SO4	O	600	-	4,4,4	0.27	0	6,6,6	0.14	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
11	SO4	i	1600	-	4,4,4	0.22	0	6,6,6	0.30	0
10	BEF	e	1602	-	0,3,3	-	-	-		
10	BEF	m	1602	-	0,3,3	-	-	-		
10	BEF	F	602	-	0,3,3	-	-	-		
10	BEF	B	602	9	0,3,3	-	-	-		
10	BEF	f	1602	-	0,3,3	-	-	-		
9	ADP	J	601	10	28,29,29	2.27	9 (32%)	43,45,45	2.20	13 (30%)
10	BEF	P	602	-	0,3,3	-	-	-		
9	ADP	C	1101	-	28,29,29	2.25	9 (32%)	43,45,45	2.05	16 (37%)
9	ADP	e	1601	-	28,29,29	2.25	9 (32%)	43,45,45	2.06	14 (32%)
10	BEF	A	602	9	0,3,3	-	-	-		
9	ADP	b	1601	10	28,29,29	2.27	9 (32%)	43,45,45	2.08	15 (34%)
11	SO4	o	1600	-	4,4,4	0.23	0	6,6,6	0.10	0
11	SO4	d	1600	-	4,4,4	0.23	0	6,6,6	0.15	0
10	BEF	n	1602	-	0,3,3	-	-	-		
9	ADP	n	1601	-	28,29,29	2.28	8 (28%)	43,45,45	2.11	16 (37%)
10	BEF	M	602	-	0,3,3	-	-	-		
9	ADP	G	601	-	28,29,29	2.24	9 (32%)	43,45,45	2.17	16 (37%)
10	BEF	g	1602	-	0,3,3	-	-	-		
9	ADP	E	601	10	28,29,29	2.30	9 (32%)	43,45,45	2.16	15 (34%)
9	ADP	h	1601	10	28,29,29	2.29	9 (32%)	43,45,45	1.99	16 (37%)
11	SO4	K	1101	-	4,4,4	0.24	0	6,6,6	0.21	0
9	ADP	B	601	10	28,29,29	2.26	10 (35%)	43,45,45	2.18	14 (32%)
10	BEF	D	602	-	0,3,3	-	-	-		
10	BEF	a	1602	-	0,3,3	-	-	-		
9	ADP	M	601	-	28,29,29	2.26	10 (35%)	43,45,45	2.11	15 (34%)
9	ADP	P	601	-	28,29,29	2.27	9 (32%)	43,45,45	2.04	15 (34%)
9	ADP	l	1601	10	28,29,29	2.35	9 (32%)	43,45,45	2.21	16 (37%)
11	SO4	j	1600	-	4,4,4	0.20	0	6,6,6	0.15	0
9	ADP	m	1601	-	28,29,29	2.29	9 (32%)	43,45,45	2.11	15 (34%)
10	BEF	C	1102	-	0,3,3	-	-	-		
10	BEF	L	602	-	0,3,3	-	-	-		
9	ADP	A	601	10	28,29,29	2.27	9 (32%)	43,45,45	2.18	16 (37%)
11	SO4	c	2101	-	4,4,4	0.28	0	6,6,6	0.16	0
10	BEF	E	602	9	0,3,3	-	-	-		
9	ADP	p	1601	10	28,29,29	2.28	9 (32%)	43,45,45	2.09	14 (32%)

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
9	ADP	f	1601	-	2/2/6/6	6/16/32/32	0/3/3/3
9	ADP	H	601	-	1/1/6/6	7/16/32/32	0/3/3/3
9	ADP	g	1601	-	1/1/6/6	4/16/32/32	0/3/3/3
9	ADP	D	601	-	2/2/6/6	3/16/32/32	0/3/3/3
9	ADP	F	601	-	-	10/16/32/32	0/3/3/3
9	ADP	k	2101	10	2/2/6/6	4/16/32/32	0/3/3/3
9	ADP	a	1601	-	2/2/6/6	7/16/32/32	0/3/3/3
9	ADP	N	601	10	2/2/6/6	7/16/32/32	0/3/3/3
9	ADP	L	601	-	-	5/16/32/32	0/3/3/3
9	ADP	J	601	10	2/2/6/6	6/16/32/32	0/3/3/3
9	ADP	C	1101	-	2/2/6/6	5/16/32/32	0/3/3/3
9	ADP	e	1601	-	2/2/6/6	5/16/32/32	0/3/3/3
9	ADP	b	1601	10	2/2/6/6	8/16/32/32	0/3/3/3
9	ADP	n	1601	-	1/1/6/6	4/16/32/32	0/3/3/3
9	ADP	G	601	-	1/1/6/6	6/16/32/32	0/3/3/3
9	ADP	E	601	10	1/1/6/6	5/16/32/32	0/3/3/3
9	ADP	h	1601	10	1/1/6/6	3/16/32/32	0/3/3/3
9	ADP	B	601	10	2/2/6/6	4/16/32/32	0/3/3/3
9	ADP	M	601	-	2/2/6/6	7/16/32/32	0/3/3/3
9	ADP	P	601	-	1/1/6/6	3/16/32/32	0/3/3/3
9	ADP	l	1601	10	-	3/16/32/32	0/3/3/3
9	ADP	m	1601	-	2/2/6/6	5/16/32/32	0/3/3/3
9	ADP	A	601	10	2/2/6/6	7/16/32/32	0/3/3/3
9	ADP	p	1601	10	1/1/6/6	5/16/32/32	0/3/3/3

All (216) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	D	601	ADP	PA-O3A	5.87	1.65	1.59
9	F	601	ADP	PA-O3A	5.46	1.65	1.59
9	l	1601	ADP	PA-O3A	5.40	1.65	1.59
9	k	2101	ADP	PA-O3A	5.33	1.65	1.59
9	L	601	ADP	PA-O3A	5.21	1.65	1.59
9	n	1601	ADP	PA-O3A	5.18	1.65	1.59
9	H	601	ADP	PA-O3A	5.09	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	g	1601	ADP	PA-O3A	5.06	1.65	1.59
9	f	1601	ADP	PA-O3A	5.05	1.65	1.59
9	h	1601	ADP	PA-O3A	5.03	1.64	1.59
9	p	1601	ADP	PB-O1B	4.97	1.65	1.50
9	E	601	ADP	PA-O3A	4.96	1.64	1.59
9	P	601	ADP	PA-O3A	4.93	1.64	1.59
9	M	601	ADP	PA-O3A	4.91	1.64	1.59
9	N	601	ADP	PB-O1B	4.85	1.65	1.50
9	l	1601	ADP	PB-O1B	4.85	1.65	1.50
9	E	601	ADP	PB-O1B	4.85	1.65	1.50
9	h	1601	ADP	PB-O1B	4.85	1.65	1.50
9	k	2101	ADP	PB-O1B	4.84	1.65	1.50
9	J	601	ADP	PA-O3A	4.83	1.64	1.59
9	f	1601	ADP	PB-O1B	4.82	1.65	1.50
9	C	1101	ADP	PA-O3A	4.81	1.64	1.59
9	b	1601	ADP	PA-O3A	4.81	1.64	1.59
9	m	1601	ADP	PA-O3A	4.81	1.64	1.59
9	F	601	ADP	PB-O1B	4.75	1.65	1.50
9	B	601	ADP	PB-O1B	4.74	1.65	1.50
9	J	601	ADP	PB-O1B	4.74	1.65	1.50
9	g	1601	ADP	PB-O1B	4.73	1.65	1.50
9	a	1601	ADP	PA-O3A	4.72	1.64	1.59
9	p	1601	ADP	PA-O3A	4.72	1.64	1.59
9	A	601	ADP	PB-O1B	4.72	1.65	1.50
9	N	601	ADP	PA-O3A	4.67	1.64	1.59
9	b	1601	ADP	PB-O1B	4.66	1.65	1.50
9	G	601	ADP	PB-O1B	4.62	1.64	1.50
9	A	601	ADP	PA-O3A	4.62	1.64	1.59
9	M	601	ADP	PB-O1B	4.61	1.64	1.50
9	H	601	ADP	PB-O1B	4.61	1.64	1.50
9	e	1601	ADP	PA-O3A	4.61	1.64	1.59
9	l	1601	ADP	C6-N6	4.61	1.46	1.34
9	L	601	ADP	PB-O1B	4.59	1.64	1.50
9	p	1601	ADP	C6-N6	4.59	1.45	1.34
9	f	1601	ADP	C6-N6	4.58	1.45	1.34
9	e	1601	ADP	PB-O1B	4.58	1.64	1.50
9	m	1601	ADP	PB-O1B	4.58	1.64	1.50
9	P	601	ADP	PB-O1B	4.56	1.64	1.50
9	n	1601	ADP	C6-N6	4.56	1.45	1.34
9	a	1601	ADP	PB-O1B	4.55	1.64	1.50
9	k	2101	ADP	C6-N6	4.53	1.45	1.34
9	h	1601	ADP	C6-N6	4.53	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	B	601	ADP	C6-N6	4.51	1.45	1.34
9	n	1601	ADP	PB-O1B	4.51	1.64	1.50
9	M	601	ADP	C6-N6	4.49	1.45	1.34
9	G	601	ADP	PA-O1A	4.49	1.66	1.50
9	P	601	ADP	C6-N6	4.49	1.45	1.34
9	b	1601	ADP	C6-N6	4.48	1.45	1.34
9	C	1101	ADP	PB-O1B	4.47	1.64	1.50
9	m	1601	ADP	C6-N6	4.47	1.45	1.34
9	e	1601	ADP	C6-N6	4.46	1.45	1.34
9	C	1101	ADP	C6-N6	4.46	1.45	1.34
9	J	601	ADP	C6-N6	4.45	1.45	1.34
9	L	601	ADP	C6-N6	4.45	1.45	1.34
9	N	601	ADP	C6-N6	4.45	1.45	1.34
9	H	601	ADP	C6-N6	4.44	1.45	1.34
9	D	601	ADP	PB-O1B	4.43	1.64	1.50
9	a	1601	ADP	C6-N6	4.41	1.45	1.34
9	F	601	ADP	C6-N6	4.40	1.45	1.34
9	g	1601	ADP	C6-N6	4.40	1.45	1.34
9	G	601	ADP	C6-N6	4.38	1.45	1.34
9	A	601	ADP	C6-N6	4.38	1.45	1.34
9	E	601	ADP	C6-N6	4.36	1.45	1.34
9	A	601	ADP	PA-O1A	4.33	1.65	1.50
9	D	601	ADP	C6-N6	4.30	1.45	1.34
9	k	2101	ADP	PA-O1A	4.23	1.65	1.50
9	F	601	ADP	PA-O1A	4.21	1.65	1.50
9	P	601	ADP	PA-O1A	4.19	1.65	1.50
9	g	1601	ADP	PA-O1A	4.19	1.65	1.50
9	H	601	ADP	PA-O1A	4.17	1.65	1.50
9	a	1601	ADP	PA-O1A	4.17	1.65	1.50
9	C	1101	ADP	PA-O1A	4.16	1.65	1.50
9	N	601	ADP	PA-O1A	4.16	1.65	1.50
9	h	1601	ADP	PA-O1A	4.15	1.65	1.50
9	E	601	ADP	PA-O1A	4.12	1.65	1.50
9	f	1601	ADP	PA-O1A	4.12	1.65	1.50
9	n	1601	ADP	PA-O1A	4.12	1.65	1.50
9	b	1601	ADP	PA-O1A	4.09	1.65	1.50
9	m	1601	ADP	PA-O1A	4.09	1.65	1.50
9	e	1601	ADP	PA-O1A	4.08	1.65	1.50
9	l	1601	ADP	PA-O1A	4.07	1.64	1.50
9	B	601	ADP	PA-O1A	4.07	1.64	1.50
9	M	601	ADP	PA-O1A	4.06	1.64	1.50
9	L	601	ADP	PA-O1A	4.05	1.64	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	p	1601	ADP	PA-O1A	4.02	1.64	1.50
9	J	601	ADP	PA-O1A	4.01	1.64	1.50
9	D	601	ADP	PA-O1A	3.99	1.64	1.50
9	B	601	ADP	PA-O3A	3.93	1.63	1.59
9	f	1601	ADP	C8-N7	3.92	1.39	1.31
9	E	601	ADP	C8-N7	3.88	1.39	1.31
9	A	601	ADP	C8-N7	3.87	1.39	1.31
9	m	1601	ADP	C8-N7	3.82	1.39	1.31
9	J	601	ADP	C8-N7	3.81	1.39	1.31
9	n	1601	ADP	C8-N7	3.80	1.39	1.31
9	B	601	ADP	C8-N7	3.80	1.39	1.31
9	C	1101	ADP	C8-N7	3.80	1.39	1.31
9	F	601	ADP	C8-N7	3.79	1.39	1.31
9	l	1601	ADP	C8-N7	3.79	1.39	1.31
9	e	1601	ADP	C8-N7	3.77	1.38	1.31
9	N	601	ADP	C8-N7	3.77	1.38	1.31
9	M	601	ADP	C8-N7	3.76	1.38	1.31
9	b	1601	ADP	C8-N7	3.75	1.38	1.31
9	G	601	ADP	PA-O3A	3.74	1.63	1.59
9	p	1601	ADP	C8-N7	3.73	1.38	1.31
9	D	601	ADP	C8-N7	3.72	1.38	1.31
9	H	601	ADP	C8-N7	3.72	1.38	1.31
9	h	1601	ADP	C8-N7	3.72	1.38	1.31
9	P	601	ADP	C8-N7	3.71	1.38	1.31
9	k	2101	ADP	C8-N7	3.69	1.38	1.31
9	L	601	ADP	C8-N7	3.67	1.38	1.31
9	G	601	ADP	C8-N7	3.64	1.38	1.31
9	a	1601	ADP	C8-N7	3.63	1.38	1.31
9	g	1601	ADP	C8-N7	3.54	1.38	1.31
9	F	601	ADP	C8-N9	-3.06	1.32	1.37
9	G	601	ADP	PB-O2B	3.06	1.66	1.54
9	g	1601	ADP	C8-N9	-3.05	1.32	1.37
9	g	1601	ADP	PB-O2B	3.04	1.66	1.54
9	B	601	ADP	PB-O2B	3.03	1.66	1.54
9	l	1601	ADP	C8-N9	-3.02	1.32	1.37
9	p	1601	ADP	C8-N9	-2.99	1.32	1.37
9	L	601	ADP	C8-N9	-2.98	1.32	1.37
9	m	1601	ADP	C8-N9	-2.98	1.32	1.37
9	e	1601	ADP	C8-N9	-2.95	1.32	1.37
9	P	601	ADP	C8-N9	-2.95	1.32	1.37
9	G	601	ADP	C8-N9	-2.93	1.32	1.37
9	a	1601	ADP	PB-O2B	2.93	1.65	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	m	1601	ADP	PB-O2B	2.91	1.65	1.54
9	L	601	ADP	PB-O2B	2.90	1.65	1.54
9	H	601	ADP	C8-N9	-2.89	1.32	1.37
9	e	1601	ADP	PB-O2B	2.89	1.65	1.54
9	k	2101	ADP	PB-O2B	2.88	1.65	1.54
9	n	1601	ADP	C8-N9	-2.88	1.32	1.37
9	l	1601	ADP	PB-O2B	2.88	1.65	1.54
9	B	601	ADP	C8-N9	-2.87	1.32	1.37
9	h	1601	ADP	C8-N9	-2.87	1.32	1.37
9	F	601	ADP	PB-O2B	2.84	1.65	1.54
9	C	1101	ADP	C8-N9	-2.83	1.32	1.37
9	D	601	ADP	C8-N9	-2.83	1.32	1.37
9	N	601	ADP	C8-N9	-2.82	1.32	1.37
9	E	601	ADP	PB-O2B	2.81	1.65	1.54
9	M	601	ADP	PB-O2B	2.81	1.65	1.54
9	H	601	ADP	PB-O2B	2.80	1.65	1.54
9	p	1601	ADP	PB-O2B	2.80	1.65	1.54
9	N	601	ADP	PB-O2B	2.78	1.65	1.54
9	n	1601	ADP	PB-O2B	2.78	1.65	1.54
9	P	601	ADP	PB-O2B	2.78	1.65	1.54
9	b	1601	ADP	C8-N9	-2.77	1.32	1.37
9	f	1601	ADP	PB-O2B	2.76	1.65	1.54
9	a	1601	ADP	C8-N9	-2.76	1.32	1.37
9	k	2101	ADP	C8-N9	-2.75	1.32	1.37
9	J	601	ADP	PB-O2B	2.75	1.65	1.54
9	D	601	ADP	PB-O2B	2.72	1.64	1.54
9	E	601	ADP	C8-N9	-2.71	1.32	1.37
9	b	1601	ADP	PB-O2B	2.70	1.64	1.54
9	M	601	ADP	C8-N9	-2.70	1.33	1.37
9	h	1601	ADP	PB-O2B	2.69	1.64	1.54
9	A	601	ADP	C8-N9	-2.67	1.33	1.37
9	A	601	ADP	PB-O2B	2.67	1.64	1.54
9	C	1101	ADP	PB-O2B	2.62	1.64	1.54
9	f	1601	ADP	C8-N9	-2.60	1.33	1.37
9	H	601	ADP	C5-C4	-2.60	1.34	1.39
9	J	601	ADP	C8-N9	-2.59	1.33	1.37
9	F	601	ADP	C5-C4	-2.57	1.34	1.39
9	e	1601	ADP	C5-C4	-2.50	1.34	1.39
9	g	1601	ADP	C5-C4	-2.49	1.34	1.39
9	a	1601	ADP	C5-C4	-2.45	1.34	1.39
9	C	1101	ADP	C5-C4	-2.43	1.34	1.39
9	E	601	ADP	C5-C4	-2.42	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	J	601	ADP	C5-C4	-2.41	1.34	1.39
9	P	601	ADP	C5-C4	-2.39	1.34	1.39
9	p	1601	ADP	PB-O3B	-2.38	1.46	1.54
9	E	601	ADP	PB-O3B	-2.37	1.46	1.54
9	h	1601	ADP	C5-C4	-2.37	1.34	1.39
9	D	601	ADP	C5-C4	-2.36	1.34	1.39
9	p	1601	ADP	C5-C4	-2.35	1.34	1.39
9	B	601	ADP	C5-C4	-2.35	1.34	1.39
9	l	1601	ADP	C5-C4	-2.32	1.34	1.39
9	m	1601	ADP	C5-C4	-2.32	1.34	1.39
9	A	601	ADP	PB-O3B	-2.32	1.46	1.54
9	l	1601	ADP	PB-O3B	-2.32	1.46	1.54
9	M	601	ADP	C5-C4	-2.30	1.35	1.39
9	k	2101	ADP	PB-O3B	-2.30	1.46	1.54
9	b	1601	ADP	C5-C4	-2.30	1.35	1.39
9	k	2101	ADP	C5-C4	-2.30	1.35	1.39
9	n	1601	ADP	C5-C4	-2.29	1.35	1.39
9	G	601	ADP	C5-C4	-2.29	1.35	1.39
9	L	601	ADP	PB-O3B	-2.28	1.46	1.54
9	B	601	ADP	PB-O3B	-2.28	1.46	1.54
9	N	601	ADP	C5-C4	-2.27	1.35	1.39
9	G	601	ADP	PB-O3B	-2.27	1.46	1.54
9	m	1601	ADP	PB-O3B	-2.26	1.46	1.54
9	J	601	ADP	PB-O3B	-2.26	1.46	1.54
9	H	601	ADP	PB-O3B	-2.25	1.46	1.54
9	F	601	ADP	PB-O3B	-2.25	1.46	1.54
9	C	1101	ADP	PB-O3B	-2.23	1.46	1.54
9	e	1601	ADP	PB-O3B	-2.22	1.46	1.54
9	g	1601	ADP	PB-O3B	-2.21	1.46	1.54
9	P	601	ADP	PB-O3B	-2.21	1.46	1.54
9	h	1601	ADP	PB-O3B	-2.20	1.46	1.54
9	M	601	ADP	PB-O3B	-2.19	1.46	1.54
9	a	1601	ADP	PB-O3B	-2.19	1.46	1.54
9	L	601	ADP	C5-C4	-2.18	1.35	1.39
9	b	1601	ADP	PB-O3B	-2.16	1.46	1.54
9	D	601	ADP	PB-O3B	-2.16	1.46	1.54
9	A	601	ADP	C5-C4	-2.13	1.35	1.39
9	f	1601	ADP	PB-O3B	-2.11	1.47	1.54
9	N	601	ADP	PB-O3B	-2.10	1.47	1.54
9	B	601	ADP	PA-O2A	-2.08	1.45	1.55
9	M	601	ADP	PA-O2A	-2.04	1.45	1.55

All (364) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	J	601	ADP	N3-C2-N1	-6.09	119.36	128.58
9	H	601	ADP	N3-C2-N1	-5.95	119.58	128.58
9	l	1601	ADP	N3-C2-N1	-5.83	119.76	128.58
9	a	1601	ADP	N3-C2-N1	-5.77	119.86	128.58
9	P	601	ADP	N3-C2-N1	-5.70	119.96	128.58
9	E	601	ADP	N3-C2-N1	-5.69	119.97	128.58
9	C	1101	ADP	N3-C2-N1	-5.68	119.99	128.58
9	M	601	ADP	N3-C2-N1	-5.68	119.99	128.58
9	k	2101	ADP	N3-C2-N1	-5.65	120.03	128.58
9	L	601	ADP	N3-C2-N1	-5.64	120.04	128.58
9	p	1601	ADP	N3-C2-N1	-5.63	120.06	128.58
9	F	601	ADP	N3-C2-N1	-5.63	120.06	128.58
9	D	601	ADP	N3-C2-N1	-5.62	120.07	128.58
9	h	1601	ADP	N3-C2-N1	-5.60	120.10	128.58
9	B	601	ADP	N3-C2-N1	-5.58	120.14	128.58
9	m	1601	ADP	N3-C2-N1	-5.57	120.14	128.58
9	e	1601	ADP	N3-C2-N1	-5.55	120.17	128.58
9	A	601	ADP	N3-C2-N1	-5.52	120.23	128.58
9	a	1601	ADP	C5-C4-N3	-5.50	119.14	126.72
9	N	601	ADP	N3-C2-N1	-5.48	120.28	128.58
9	f	1601	ADP	N3-C2-N1	-5.43	120.36	128.58
9	n	1601	ADP	N3-C2-N1	-5.41	120.39	128.58
9	L	601	ADP	C5-C4-N3	-5.36	119.34	126.72
9	D	601	ADP	C5-C4-N3	-5.35	119.35	126.72
9	G	601	ADP	N3-C2-N1	-5.35	120.49	128.58
9	g	1601	ADP	N3-C2-N1	-5.33	120.52	128.58
9	b	1601	ADP	N3-C2-N1	-5.31	120.54	128.58
9	A	601	ADP	C5-C4-N3	-5.27	119.46	126.72
9	m	1601	ADP	C5-C4-N3	-5.20	119.56	126.72
9	g	1601	ADP	C5-C4-N3	-5.15	119.63	126.72
9	N	601	ADP	C5-C4-N3	-5.14	119.64	126.72
9	C	1101	ADP	C5-C4-N3	-5.13	119.65	126.72
9	B	601	ADP	C5-C4-N3	-5.13	119.65	126.72
9	n	1601	ADP	C5-C4-N3	-5.13	119.66	126.72
9	F	601	ADP	C5-C4-N3	-5.04	119.78	126.72
9	J	601	ADP	C5-C4-N3	-5.03	119.78	126.72
9	M	601	ADP	C5-C4-N3	-5.02	119.81	126.72
9	l	1601	ADP	C5-C4-N3	-5.01	119.82	126.72
9	G	601	ADP	C5-C4-N3	-4.95	119.89	126.72
9	k	2101	ADP	C5-C4-N3	-4.91	119.96	126.72
9	E	601	ADP	C5-C4-N3	-4.81	120.09	126.72
9	p	1601	ADP	C5-C4-N3	-4.80	120.11	126.72
9	f	1601	ADP	C5-C4-N3	-4.77	120.15	126.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	h	1601	ADP	C5-C4-N3	-4.70	120.25	126.72
9	e	1601	ADP	C5-C4-N3	-4.70	120.25	126.72
9	H	601	ADP	C5-C4-N3	-4.68	120.27	126.72
9	b	1601	ADP	C5-C4-N3	-4.57	120.42	126.72
9	P	601	ADP	C5-C4-N3	-4.54	120.46	126.72
9	H	601	ADP	N9-C8-N7	-4.31	107.83	113.94
9	l	1601	ADP	N9-C8-N7	-4.25	107.91	113.94
9	D	601	ADP	O4'-C4'-C5'	4.23	122.90	109.33
9	e	1601	ADP	N9-C8-N7	-4.22	107.94	113.94
9	F	601	ADP	N9-C8-N7	-4.19	108.00	113.94
9	E	601	ADP	O3'-C3'-C4'	4.16	123.03	111.08
9	p	1601	ADP	N9-C8-N7	-4.12	108.08	113.94
9	n	1601	ADP	N9-C8-N7	-4.12	108.08	113.94
9	D	601	ADP	O5'-C5'-C4'	4.08	122.90	108.99
9	g	1601	ADP	N9-C8-N7	-4.07	108.16	113.94
9	N	601	ADP	N9-C8-N7	-4.05	108.19	113.94
9	m	1601	ADP	N9-C8-N7	-4.04	108.20	113.94
9	a	1601	ADP	O4'-C4'-C5'	4.04	122.28	109.33
9	k	2101	ADP	O4'-C4'-C5'	4.03	122.25	109.33
9	E	601	ADP	N9-C8-N7	-3.99	108.28	113.94
9	P	601	ADP	N9-C8-N7	-3.97	108.30	113.94
9	f	1601	ADP	O4'-C4'-C5'	3.94	121.95	109.33
9	b	1601	ADP	N9-C8-N7	-3.94	108.35	113.94
9	k	2101	ADP	N9-C8-N7	-3.93	108.36	113.94
9	C	1101	ADP	N9-C8-N7	-3.92	108.37	113.94
9	G	601	ADP	N9-C8-N7	-3.91	108.39	113.94
9	f	1601	ADP	O5'-C5'-C4'	3.83	122.05	108.99
9	h	1601	ADP	N9-C8-N7	-3.83	108.50	113.94
9	L	601	ADP	N9-C8-N7	-3.80	108.54	113.94
9	M	601	ADP	O4'-C4'-C5'	3.78	121.45	109.33
9	B	601	ADP	N9-C8-N7	-3.77	108.59	113.94
9	f	1601	ADP	N9-C8-N7	-3.76	108.61	113.94
9	D	601	ADP	N9-C8-N7	-3.73	108.64	113.94
9	J	601	ADP	N9-C8-N7	-3.71	108.67	113.94
9	g	1601	ADP	O4'-C4'-C5'	3.68	121.12	109.33
9	G	601	ADP	O4'-C4'-C5'	3.67	121.10	109.33
9	A	601	ADP	O3'-C3'-C4'	3.67	121.62	111.08
9	J	601	ADP	O4'-C4'-C5'	3.66	121.07	109.33
9	f	1601	ADP	O3'-C3'-C4'	3.66	121.60	111.08
9	B	601	ADP	O3'-C3'-C4'	3.66	121.59	111.08
9	a	1601	ADP	N9-C8-N7	-3.64	108.77	113.94
9	J	601	ADP	C2-N3-C4	3.63	120.69	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	M	601	ADP	N9-C8-N7	-3.61	108.81	113.94
9	n	1601	ADP	O4'-C4'-C5'	3.61	120.89	109.33
9	N	601	ADP	O3'-C3'-C4'	3.59	121.39	111.08
9	D	601	ADP	C2-N3-C4	3.58	120.57	111.83
9	a	1601	ADP	N3-C4-N9	3.56	133.22	127.17
9	A	601	ADP	N9-C8-N7	-3.53	108.93	113.94
9	J	601	ADP	O5'-C5'-C4'	3.53	121.01	108.99
9	m	1601	ADP	O3'-C3'-C4'	3.53	121.22	111.08
9	a	1601	ADP	C2-N3-C4	3.51	120.41	111.83
9	B	601	ADP	O5'-C5'-C4'	3.50	120.90	108.99
9	C	1101	ADP	C2-N3-C4	3.49	120.36	111.83
9	F	601	ADP	O5'-C5'-C4'	3.48	120.85	108.99
9	l	1601	ADP	C2-N3-C4	3.48	120.33	111.83
9	m	1601	ADP	C2-N3-C4	3.47	120.31	111.83
9	L	601	ADP	N3-C4-N9	3.47	133.06	127.17
9	H	601	ADP	C2-N3-C4	3.46	120.29	111.83
9	b	1601	ADP	O5'-C5'-C4'	3.46	120.78	108.99
9	L	601	ADP	C2-N3-C4	3.46	120.27	111.83
9	g	1601	ADP	N3-C4-N9	3.45	133.04	127.17
9	l	1601	ADP	O4'-C4'-C5'	3.45	120.37	109.33
9	A	601	ADP	O4'-C4'-C5'	3.44	120.37	109.33
9	A	601	ADP	C2-N3-C4	3.44	120.23	111.83
9	N	601	ADP	C2-N3-C4	3.44	120.23	111.83
9	n	1601	ADP	C2-N3-C4	3.43	120.20	111.83
9	B	601	ADP	O4'-C4'-C5'	3.41	120.27	109.33
9	H	601	ADP	O3'-C3'-C4'	3.41	120.88	111.08
9	p	1601	ADP	O3'-C3'-C4'	3.41	120.87	111.08
9	G	601	ADP	N3-C4-N9	3.39	132.93	127.17
9	b	1601	ADP	O4'-C4'-C5'	3.38	120.16	109.33
9	M	601	ADP	C2-N3-C4	3.38	120.07	111.83
9	M	601	ADP	O3'-C3'-C4'	3.37	120.77	111.08
9	p	1601	ADP	C2-N3-C4	3.37	120.07	111.83
9	F	601	ADP	C2-N3-C4	3.37	120.06	111.83
9	B	601	ADP	C2-N3-C4	3.37	120.06	111.83
9	E	601	ADP	C2-N3-C4	3.35	120.01	111.83
9	m	1601	ADP	O4'-C4'-C5'	3.30	119.92	109.33
9	k	2101	ADP	C2-N3-C4	3.28	119.84	111.83
9	e	1601	ADP	C2-N3-C4	3.26	119.80	111.83
9	N	601	ADP	O4'-C4'-C5'	3.25	119.74	109.33
9	E	601	ADP	O4'-C4'-C5'	3.23	119.67	109.33
9	g	1601	ADP	C2-N3-C4	3.22	119.70	111.83
9	p	1601	ADP	O3'-C3'-C2'	3.22	122.13	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	h	1601	ADP	C2-N3-C4	3.21	119.68	111.83
9	A	601	ADP	O2'-C2'-C1'	3.21	121.15	110.10
9	B	601	ADP	N3-C4-N9	3.20	132.62	127.17
9	f	1601	ADP	C2-N3-C4	3.20	119.65	111.83
9	F	601	ADP	O2'-C2'-C1'	3.20	121.12	110.10
9	k	2101	ADP	O3'-C3'-C4'	3.19	120.26	111.08
9	l	1601	ADP	O3'-C3'-C4'	3.19	120.25	111.08
9	l	1601	ADP	N3-C4-N9	3.19	132.60	127.17
9	e	1601	ADP	O4'-C4'-C5'	3.19	119.56	109.33
9	G	601	ADP	C2-N3-C4	3.18	119.60	111.83
9	A	601	ADP	O5'-C5'-C4'	3.18	119.81	108.99
9	P	601	ADP	C2-N3-C4	3.17	119.57	111.83
9	D	601	ADP	N3-C4-N9	3.17	132.56	127.17
9	N	601	ADP	O5'-C5'-C4'	3.15	119.73	108.99
9	L	601	ADP	O4'-C4'-C5'	3.14	119.38	109.33
9	J	601	ADP	O3'-C3'-C4'	3.13	120.08	111.08
9	F	601	ADP	O4'-C4'-C5'	3.13	119.35	109.33
9	P	601	ADP	O3'-C3'-C4'	3.12	120.05	111.08
9	e	1601	ADP	O3'-C3'-C4'	3.11	120.03	111.08
9	C	1101	ADP	O4'-C4'-C5'	3.11	119.28	109.33
9	m	1601	ADP	N3-C4-N9	3.10	132.44	127.17
9	b	1601	ADP	O3'-C3'-C4'	3.09	119.95	111.08
9	M	601	ADP	O5'-C5'-C4'	3.09	119.50	108.99
9	N	601	ADP	C5-N7-C8	3.08	108.29	103.45
9	m	1601	ADP	C5-N7-C8	3.05	108.25	103.45
9	n	1601	ADP	N3-C4-N9	3.05	132.36	127.17
9	F	601	ADP	C5-N7-C8	3.05	108.25	103.45
9	J	601	ADP	N3-C4-N9	3.05	132.36	127.17
9	l	1601	ADP	O5'-C5'-C4'	3.05	119.37	108.99
9	n	1601	ADP	O3'-C3'-C2'	3.05	121.59	111.82
9	n	1601	ADP	C5-N7-C8	3.05	108.24	103.45
9	C	1101	ADP	N3-C4-N9	3.04	132.34	127.17
9	l	1601	ADP	C5-N7-C8	3.04	108.22	103.45
9	k	2101	ADP	N3-C4-N9	3.02	132.31	127.17
9	n	1601	ADP	O3'-C3'-C4'	3.02	119.77	111.08
9	A	601	ADP	N3-C4-N9	3.02	132.31	127.17
9	h	1601	ADP	O3'-C3'-C4'	3.02	119.75	111.08
9	e	1601	ADP	O2'-C2'-C1'	3.02	120.49	110.10
9	N	601	ADP	N3-C4-N9	3.01	132.28	127.17
9	E	601	ADP	O3'-C3'-C2'	3.00	121.43	111.82
9	p	1601	ADP	O4'-C4'-C3'	-3.00	99.20	105.15
9	b	1601	ADP	C2-N3-C4	2.99	119.12	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	b	1601	ADP	N3-C4-N9	2.98	132.24	127.17
9	B	601	ADP	O2'-C2'-C1'	2.98	120.36	110.10
9	k	2101	ADP	O2'-C2'-C1'	2.97	120.33	110.10
9	F	601	ADP	N3-C4-N9	2.96	132.21	127.17
9	G	601	ADP	O2'-C2'-C1'	2.96	120.31	110.10
9	M	601	ADP	N3-C4-N9	2.96	132.19	127.17
9	P	601	ADP	N3-C4-N9	2.95	132.18	127.17
9	f	1601	ADP	O4'-C1'-N9	2.93	113.72	108.09
9	p	1601	ADP	C5-N7-C8	2.92	108.05	103.45
9	H	601	ADP	C5-N7-C8	2.91	108.03	103.45
9	h	1601	ADP	N3-C4-N9	2.91	132.12	127.17
9	l	1601	ADP	O2'-C2'-C3'	2.90	121.11	111.82
9	P	601	ADP	O4'-C4'-C3'	-2.90	99.40	105.15
9	E	601	ADP	C5-N7-C8	2.90	108.00	103.45
9	C	1101	ADP	C5-N7-C8	2.89	107.99	103.45
9	a	1601	ADP	O5'-C5'-C4'	2.88	118.80	108.99
9	H	601	ADP	N3-C4-N9	2.88	132.06	127.17
9	g	1601	ADP	O2'-C2'-C1'	2.88	120.01	110.10
9	e	1601	ADP	C5-N7-C8	2.87	107.97	103.45
9	N	601	ADP	O2'-C2'-C1'	2.87	119.99	110.10
9	g	1601	ADP	C5-N7-C8	2.86	107.95	103.45
9	e	1601	ADP	N3-C4-N9	2.86	132.03	127.17
9	m	1601	ADP	O3'-C3'-C2'	2.86	120.97	111.82
9	f	1601	ADP	N3-C4-N9	2.85	132.02	127.17
9	p	1601	ADP	N3-C4-N9	2.85	132.02	127.17
9	L	601	ADP	O2'-C2'-C1'	2.85	119.91	110.10
9	L	601	ADP	C5-N7-C8	2.85	107.92	103.45
9	D	601	ADP	C5-N7-C8	2.84	107.92	103.45
9	E	601	ADP	O2'-C2'-C1'	2.84	119.88	110.10
9	D	601	ADP	O3'-C3'-C4'	2.83	119.22	111.08
9	h	1601	ADP	O4'-C4'-C5'	2.83	118.40	109.33
9	k	2101	ADP	C5-N7-C8	2.83	107.89	103.45
9	E	601	ADP	O2'-C2'-C3'	2.82	120.85	111.82
9	L	601	ADP	O5'-C5'-C4'	2.81	118.55	108.99
9	A	601	ADP	C5-N7-C8	2.78	107.82	103.45
9	J	601	ADP	O2'-C2'-C1'	2.77	119.65	110.10
9	l	1601	ADP	O2'-C2'-C1'	2.76	119.62	110.10
9	l	1601	ADP	O3'-C3'-C2'	2.75	120.64	111.82
9	a	1601	ADP	O3'-C3'-C4'	2.75	118.99	111.08
9	a	1601	ADP	C5-N7-C8	2.74	107.76	103.45
9	L	601	ADP	O3'-C3'-C4'	2.72	118.89	111.08
9	L	601	ADP	O2'-C2'-C3'	2.71	120.52	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	N	601	ADP	C4-C5-N7	-2.71	107.48	110.58
9	p	1601	ADP	O4'-C4'-C5'	2.70	117.98	109.33
9	M	601	ADP	O3'-C3'-C2'	2.70	120.47	111.82
9	N	601	ADP	O4'-C1'-N9	2.70	113.28	108.09
9	h	1601	ADP	O3'-C3'-C2'	2.70	120.47	111.82
9	G	601	ADP	O3'-C3'-C4'	2.69	118.82	111.08
9	E	601	ADP	N3-C4-N9	2.69	131.75	127.17
9	B	601	ADP	C5-N7-C8	2.69	107.68	103.45
9	k	2101	ADP	C4'-O4'-C1'	-2.69	103.53	109.47
9	F	601	ADP	O2'-C2'-C3'	2.69	120.44	111.82
9	f	1601	ADP	O3'-C3'-C2'	2.68	120.42	111.82
9	J	601	ADP	O2'-C2'-C3'	2.68	120.41	111.82
9	b	1601	ADP	O4'-C4'-C3'	-2.68	99.84	105.15
9	N	601	ADP	O3'-C3'-C2'	2.67	120.38	111.82
9	n	1601	ADP	C4-C5-N7	-2.66	107.53	110.58
9	f	1601	ADP	C5-N7-C8	2.66	107.64	103.45
9	h	1601	ADP	O4'-C4'-C3'	-2.66	99.87	105.15
9	e	1601	ADP	O3'-C3'-C2'	2.66	120.33	111.82
9	H	601	ADP	C4-N9-C8	2.64	108.51	105.74
9	h	1601	ADP	C5-N7-C8	2.64	107.60	103.45
9	m	1601	ADP	C4-C5-N7	-2.63	107.57	110.58
9	l	1601	ADP	C4-N9-C8	2.63	108.50	105.74
9	G	601	ADP	C5-N7-C8	2.62	107.57	103.45
9	G	601	ADP	O4'-C4'-C3'	-2.62	99.96	105.15
9	m	1601	ADP	O5'-C5'-C4'	2.61	117.88	108.99
9	J	601	ADP	C5-N7-C8	2.61	107.55	103.45
9	H	601	ADP	O2'-C2'-C1'	2.61	119.09	110.10
9	P	601	ADP	C5-N7-C8	2.61	107.55	103.45
9	g	1601	ADP	O3'-C3'-C4'	2.60	118.55	111.08
9	M	601	ADP	C5-N7-C8	2.60	107.53	103.45
9	P	601	ADP	O2'-C2'-C1'	2.59	119.04	110.10
9	b	1601	ADP	C5-N7-C8	2.59	107.52	103.45
9	p	1601	ADP	C4-C5-N7	-2.58	107.63	110.58
9	C	1101	ADP	O3'-C3'-C4'	2.57	118.47	111.08
9	F	601	ADP	C4-C5-N7	-2.57	107.64	110.58
9	f	1601	ADP	O2'-C2'-C1'	2.57	118.94	110.10
9	b	1601	ADP	O3'-C3'-C2'	2.56	120.03	111.82
9	P	601	ADP	O4'-C4'-C5'	2.56	117.53	109.33
9	e	1601	ADP	C4-N9-C8	2.55	108.42	105.74
9	A	601	ADP	O2'-C2'-C3'	2.55	120.00	111.82
9	n	1601	ADP	O2'-C2'-C1'	2.55	118.88	110.10
9	g	1601	ADP	C2'-C1'-N9	-2.54	107.00	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	a	1601	ADP	O2'-C2'-C1'	2.54	118.83	110.10
9	P	601	ADP	O3'-C3'-C2'	2.53	119.92	111.82
9	b	1601	ADP	O2'-C2'-C3'	2.52	119.89	111.82
9	a	1601	ADP	C6-C5-C4	2.52	120.61	117.18
9	P	601	ADP	O5'-C5'-C4'	2.50	117.52	108.99
9	G	601	ADP	C4-N9-C8	2.50	108.36	105.74
9	p	1601	ADP	C4-N9-C8	2.50	108.36	105.74
9	H	601	ADP	O3'-C3'-C2'	2.50	119.82	111.82
9	g	1601	ADP	C4-N9-C8	2.49	108.35	105.74
9	P	601	ADP	C4-N9-C8	2.48	108.35	105.74
9	C	1101	ADP	O3'-C3'-C2'	2.48	119.76	111.82
9	E	601	ADP	C4-C5-N7	-2.46	107.77	110.58
9	k	2101	ADP	O3'-C3'-C2'	2.45	119.68	111.82
9	g	1601	ADP	C6-C5-C4	2.45	120.52	117.18
9	D	601	ADP	C4-C5-N7	-2.45	107.78	110.58
9	l	1601	ADP	C4-C5-N7	-2.44	107.79	110.58
9	e	1601	ADP	O2'-C2'-C3'	2.43	119.60	111.82
9	A	601	ADP	C4-C5-N7	-2.43	107.81	110.58
9	C	1101	ADP	C4-C5-N7	-2.42	107.81	110.58
9	g	1601	ADP	O3'-C3'-C2'	2.42	119.59	111.82
9	b	1601	ADP	C4-N9-C8	2.42	108.28	105.74
9	L	601	ADP	C6-C5-C4	2.42	120.48	117.18
9	J	601	ADP	O3'-C3'-C2'	2.42	119.57	111.82
9	G	601	ADP	C2'-C1'-N9	-2.39	107.36	113.30
9	D	601	ADP	O2'-C2'-C1'	2.39	118.33	110.10
9	p	1601	ADP	O5'-C5'-C4'	2.39	117.13	108.99
9	G	601	ADP	C6-C5-C4	2.38	120.43	117.18
9	a	1601	ADP	O2'-C2'-C3'	2.37	119.42	111.82
9	G	601	ADP	O5'-C5'-C4'	2.37	117.07	108.99
9	a	1601	ADP	O3'-C3'-C2'	2.37	119.41	111.82
9	J	601	ADP	O4'-C4'-C3'	-2.36	100.47	105.15
9	m	1601	ADP	O2'-C2'-C1'	2.35	118.21	110.10
9	h	1601	ADP	O2'-C2'-C1'	2.35	118.20	110.10
9	n	1601	ADP	O5'-C5'-C4'	2.35	116.98	108.99
9	b	1601	ADP	C6-C5-C4	2.34	120.37	117.18
9	e	1601	ADP	O5'-C5'-C4'	2.33	116.94	108.99
9	C	1101	ADP	O2'-C2'-C1'	2.32	118.10	110.10
9	D	601	ADP	O2'-C2'-C3'	2.31	119.23	111.82
9	n	1601	ADP	C4-N9-C8	2.30	108.16	105.74
9	H	601	ADP	O4'-C4'-C3'	-2.30	100.58	105.15
9	e	1601	ADP	C4-C5-N7	-2.30	107.95	110.58
9	b	1601	ADP	O2'-C2'-C1'	2.30	118.02	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	H	601	ADP	C4-C5-N7	-2.29	107.96	110.58
9	L	601	ADP	O3'-C3'-C2'	2.29	119.15	111.82
9	g	1601	ADP	O4'-C4'-C3'	-2.29	100.61	105.15
9	n	1601	ADP	O3B-PB-O3A	2.28	112.29	104.64
9	g	1601	ADP	O5'-C5'-C4'	2.27	116.73	108.99
9	B	601	ADP	C6-C5-C4	2.27	120.28	117.18
9	A	601	ADP	O3'-C3'-C2'	2.27	119.09	111.82
9	f	1601	ADP	C4-C5-N7	-2.26	108.00	110.58
9	L	601	ADP	C4-C5-N7	-2.26	108.00	110.58
9	E	601	ADP	O5'-C5'-C4'	2.26	116.67	108.99
9	h	1601	ADP	O5'-C5'-C4'	2.25	116.66	108.99
9	D	601	ADP	O3'-C3'-C2'	2.25	119.02	111.82
9	F	601	ADP	C4-N9-C8	2.25	108.10	105.74
9	k	2101	ADP	C4-C5-N7	-2.24	108.02	110.58
9	H	601	ADP	O2'-C2'-C3'	2.24	119.00	111.82
9	F	601	ADP	C6-C5-C4	2.23	120.23	117.18
9	H	601	ADP	O4'-C4'-C5'	2.23	116.47	109.33
9	k	2101	ADP	C6-C5-C4	2.23	120.22	117.18
9	l	1601	ADP	C3'-C2'-C1'	2.22	105.67	101.46
9	C	1101	ADP	O2B-PB-O3A	2.22	112.08	104.64
9	A	601	ADP	C5-C4-N9	2.22	108.23	105.81
9	P	601	ADP	O2'-C2'-C3'	2.21	118.92	111.82
9	F	601	ADP	O3'-C3'-C4'	2.21	117.44	111.08
9	p	1601	ADP	O2'-C2'-C3'	2.21	118.90	111.82
9	N	601	ADP	O2'-C2'-C3'	2.19	118.84	111.82
9	m	1601	ADP	C6-C5-C4	2.16	120.13	117.18
9	M	601	ADP	O2'-C2'-C1'	2.16	117.56	110.10
9	G	601	ADP	O3'-C3'-C2'	2.16	118.75	111.82
9	E	601	ADP	C5-C4-N9	2.16	108.16	105.81
9	M	601	ADP	C4-C5-N7	-2.16	108.12	110.58
9	M	601	ADP	C6-C5-C4	2.15	120.11	117.18
9	k	2101	ADP	C4-N9-C8	2.15	108.00	105.74
9	A	601	ADP	C6-C5-C4	2.15	120.11	117.18
9	h	1601	ADP	C4-N9-C8	2.14	107.98	105.74
9	h	1601	ADP	C6-C5-C4	2.14	120.10	117.18
9	m	1601	ADP	C4-N9-C8	2.14	107.98	105.74
9	B	601	ADP	O2'-C2'-C3'	2.13	118.65	111.82
9	N	601	ADP	C4-N9-C8	2.13	107.97	105.74
9	C	1101	ADP	O5'-C5'-C4'	2.13	116.24	108.99
9	f	1601	ADP	C6-C5-C4	2.12	120.07	117.18
9	F	601	ADP	C2'-C3'-C4'	-2.11	98.52	102.61
9	B	601	ADP	C5'-C4'-C3'	2.11	122.79	115.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	G	601	ADP	O2'-C2'-C3'	2.10	118.55	111.82
9	k	2101	ADP	O2'-C2'-C3'	2.10	118.55	111.82
9	D	601	ADP	C5-C4-N9	2.10	108.10	105.81
9	L	601	ADP	C4-N9-C8	2.10	107.94	105.74
9	l	1601	ADP	C6-C5-C4	2.10	120.04	117.18
9	B	601	ADP	C4-C5-N7	-2.09	108.19	110.58
9	f	1601	ADP	C4-N9-C8	2.09	107.93	105.74
9	f	1601	ADP	C5'-C4'-C3'	2.08	122.71	115.21
9	g	1601	ADP	C4-C5-N7	-2.08	108.20	110.58
9	k	2101	ADP	C5'-C4'-C3'	2.07	122.68	115.21
9	N	601	ADP	C5-C4-N9	2.07	108.07	105.81
9	E	601	ADP	O2B-PB-O3A	2.07	111.58	104.64
9	N	601	ADP	O3B-PB-O3A	2.07	111.57	104.64
9	n	1601	ADP	O4'-C1'-N9	2.07	112.06	108.09
9	P	601	ADP	C6-C5-C4	2.06	119.99	117.18
9	n	1601	ADP	C6-C5-C4	2.06	119.99	117.18
9	a	1601	ADP	C5'-C4'-C3'	2.06	122.63	115.21
9	C	1101	ADP	C6-C5-C4	2.05	119.98	117.18
9	h	1601	ADP	O2'-C2'-C3'	2.04	118.37	111.82
9	M	601	ADP	C5'-C4'-C3'	2.03	122.53	115.21
9	C	1101	ADP	C5-C4-N9	2.02	108.02	105.81
9	F	601	ADP	C5-C4-N9	2.02	108.02	105.81
9	C	1101	ADP	O2'-C2'-C3'	2.02	118.29	111.82
9	h	1601	ADP	C4-C5-N7	-2.01	108.28	110.58
9	M	601	ADP	C5-C4-N9	2.01	108.00	105.81
9	m	1601	ADP	C5-C4-N9	2.01	108.00	105.81
9	A	601	ADP	C5'-C4'-C3'	2.00	122.42	115.21

All (34) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
9	A	601	ADP	C4'
9	A	601	ADP	C3'
9	B	601	ADP	C4'
9	B	601	ADP	C3'
9	C	1101	ADP	C4'
9	C	1101	ADP	C3'
9	D	601	ADP	C4'
9	D	601	ADP	C3'
9	E	601	ADP	C4'
9	G	601	ADP	C3'
9	H	601	ADP	C4'

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Mol	Chain	Res	Type	Atom
9	J	601	ADP	C4'
9	J	601	ADP	C3'
9	M	601	ADP	C4'
9	M	601	ADP	C3'
9	N	601	ADP	C2'
9	N	601	ADP	C3'
9	P	601	ADP	C4'
9	a	1601	ADP	C4'
9	a	1601	ADP	C3'
9	b	1601	ADP	C4'
9	b	1601	ADP	C3'
9	e	1601	ADP	C4'
9	e	1601	ADP	C3'
9	f	1601	ADP	C2'
9	f	1601	ADP	C3'
9	g	1601	ADP	C3'
9	h	1601	ADP	C4'
9	k	2101	ADP	C4'
9	k	2101	ADP	C3'
9	m	1601	ADP	C4'
9	m	1601	ADP	C3'
9	n	1601	ADP	C2'
9	p	1601	ADP	C4'

All (129) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
9	A	601	ADP	C5'-O5'-PA-O3A
9	B	601	ADP	PB-O3A-PA-O5'
9	C	1101	ADP	C5'-O5'-PA-O1A
9	C	1101	ADP	C5'-O5'-PA-O3A
9	D	601	ADP	C4'-C5'-O5'-PA
9	E	601	ADP	C5'-O5'-PA-O1A
9	E	601	ADP	C5'-O5'-PA-O2A
9	E	601	ADP	C5'-O5'-PA-O3A
9	F	601	ADP	PA-O3A-PB-O3B
9	F	601	ADP	C5'-O5'-PA-O1A
9	F	601	ADP	C5'-O5'-PA-O2A
9	F	601	ADP	C5'-O5'-PA-O3A
9	F	601	ADP	C2'-C1'-N9-C8
9	G	601	ADP	C5'-O5'-PA-O1A
9	H	601	ADP	O4'-C1'-N9-C8

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Mol	Chain	Res	Type	Atoms
9	H	601	ADP	O4'-C1'-N9-C4
9	J	601	ADP	C5'-O5'-PA-O2A
9	J	601	ADP	C5'-O5'-PA-O3A
9	L	601	ADP	PA-O3A-PB-O2B
9	L	601	ADP	PA-O3A-PB-O3B
9	L	601	ADP	C2'-C1'-N9-C4
9	M	601	ADP	PA-O3A-PB-O2B
9	M	601	ADP	PA-O3A-PB-O3B
9	M	601	ADP	C5'-O5'-PA-O3A
9	N	601	ADP	C5'-O5'-PA-O1A
9	N	601	ADP	C5'-O5'-PA-O3A
9	a	1601	ADP	PA-O3A-PB-O2B
9	a	1601	ADP	PB-O3A-PA-O5'
9	a	1601	ADP	C5'-O5'-PA-O3A
9	b	1601	ADP	PA-O3A-PB-O2B
9	b	1601	ADP	C5'-O5'-PA-O1A
9	b	1601	ADP	C5'-O5'-PA-O3A
9	e	1601	ADP	PA-O3A-PB-O2B
9	f	1601	ADP	PA-O3A-PB-O3B
9	f	1601	ADP	C5'-O5'-PA-O1A
9	f	1601	ADP	C5'-O5'-PA-O3A
9	k	2101	ADP	C3'-C4'-C5'-O5'
9	l	1601	ADP	C5'-O5'-PA-O1A
9	l	1601	ADP	C5'-O5'-PA-O2A
9	l	1601	ADP	C5'-O5'-PA-O3A
9	m	1601	ADP	PB-O3A-PA-O5'
9	m	1601	ADP	C5'-O5'-PA-O1A
9	m	1601	ADP	C5'-O5'-PA-O3A
9	n	1601	ADP	PA-O3A-PB-O3B
9	n	1601	ADP	C5'-O5'-PA-O3A
9	p	1601	ADP	O4'-C4'-C5'-O5'
9	p	1601	ADP	O4'-C1'-N9-C8
9	p	1601	ADP	O4'-C1'-N9-C4
9	e	1601	ADP	C3'-C4'-C5'-O5'
9	m	1601	ADP	C3'-C4'-C5'-O5'
9	p	1601	ADP	C3'-C4'-C5'-O5'
9	L	601	ADP	C2'-C1'-N9-C8
9	C	1101	ADP	C3'-C4'-C5'-O5'
9	e	1601	ADP	O4'-C4'-C5'-O5'
9	g	1601	ADP	O4'-C4'-C5'-O5'
9	g	1601	ADP	C3'-C4'-C5'-O5'
9	F	601	ADP	C2'-C1'-N9-C4

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Mol	Chain	Res	Type	Atoms
9	G	601	ADP	C2'-C1'-N9-C8
9	E	601	ADP	C3'-C4'-C5'-O5'
9	b	1601	ADP	O4'-C4'-C5'-O5'
9	B	601	ADP	O4'-C4'-C5'-O5'
9	k	2101	ADP	O4'-C4'-C5'-O5'
9	G	601	ADP	O4'-C4'-C5'-O5'
9	H	601	ADP	O4'-C4'-C5'-O5'
9	J	601	ADP	O4'-C4'-C5'-O5'
9	L	601	ADP	O4'-C4'-C5'-O5'
9	k	2101	ADP	C4'-C5'-O5'-PA
9	N	601	ADP	C2'-C1'-N9-C8
9	a	1601	ADP	O4'-C4'-C5'-O5'
9	A	601	ADP	O4'-C4'-C5'-O5'
9	B	601	ADP	C4'-C5'-O5'-PA
9	G	601	ADP	C4'-C5'-O5'-PA
9	b	1601	ADP	C4'-C5'-O5'-PA
9	g	1601	ADP	C4'-C5'-O5'-PA
9	C	1101	ADP	PB-O3A-PA-O5'
9	D	601	ADP	PB-O3A-PA-O5'
9	E	601	ADP	PB-O3A-PA-O5'
9	J	601	ADP	PB-O3A-PA-O5'
9	M	601	ADP	PB-O3A-PA-O5'
9	b	1601	ADP	PB-O3A-PA-O5'
9	g	1601	ADP	PB-O3A-PA-O5'
9	a	1601	ADP	C4'-C5'-O5'-PA
9	P	601	ADP	O4'-C1'-N9-C4
9	h	1601	ADP	O4'-C1'-N9-C4
9	D	601	ADP	PA-O3A-PB-O2B
9	H	601	ADP	PA-O3A-PB-O2B
9	e	1601	ADP	PA-O3A-PB-O3B
9	k	2101	ADP	PA-O3A-PB-O3B
9	P	601	ADP	O4'-C1'-N9-C8
9	H	601	ADP	C3'-C4'-C5'-O5'
9	A	601	ADP	C2'-C1'-N9-C8
9	f	1601	ADP	C2'-C1'-N9-C8
9	h	1601	ADP	PB-O3A-PA-O2A
9	A	601	ADP	C4'-C5'-O5'-PA
9	F	601	ADP	C4'-C5'-O5'-PA
9	J	601	ADP	C4'-C5'-O5'-PA
9	m	1601	ADP	C4'-C5'-O5'-PA
9	G	601	ADP	C2'-C1'-N9-C4
9	A	601	ADP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
9	J	601	ADP	C5'-O5'-PA-O1A
9	M	601	ADP	C5'-O5'-PA-O1A
9	a	1601	ADP	C5'-O5'-PA-O1A
9	n	1601	ADP	C5'-O5'-PA-O1A
9	f	1601	ADP	PA-O3A-PB-O1B
9	N	601	ADP	O4'-C4'-C5'-O5'
9	F	601	ADP	PB-O3A-PA-O2A
9	N	601	ADP	C2'-C1'-N9-C4
9	h	1601	ADP	O4'-C1'-N9-C8
9	F	601	ADP	PA-O3A-PB-O1B
9	H	601	ADP	PB-O3A-PA-O2A
9	P	601	ADP	PB-O3A-PA-O2A
9	p	1601	ADP	PB-O3A-PA-O2A
9	A	601	ADP	O4'-C1'-N9-C8
9	A	601	ADP	C2'-C1'-N9-C4
9	b	1601	ADP	C3'-C4'-C5'-O5'
9	b	1601	ADP	PA-O3A-PB-O1B
9	e	1601	ADP	PA-O3A-PB-O1B
9	n	1601	ADP	PA-O3A-PB-O1B
9	a	1601	ADP	PA-O3A-PB-O3B
9	f	1601	ADP	O4'-C1'-N9-C8
9	F	601	ADP	PB-O3A-PA-O1A
9	N	601	ADP	O4'-C1'-N9-C8
9	M	601	ADP	PA-O3A-PB-O1B
9	C	1101	ADP	O4'-C4'-C5'-O5'
9	G	601	ADP	C3'-C4'-C5'-O5'
9	N	601	ADP	C4'-C5'-O5'-PA
9	M	601	ADP	C2'-C1'-N9-C8
9	B	601	ADP	PB-O3A-PA-O2A
9	H	601	ADP	PB-O3A-PA-O1A

There are no ring outliers.

30 monomers are involved in 136 short contacts:

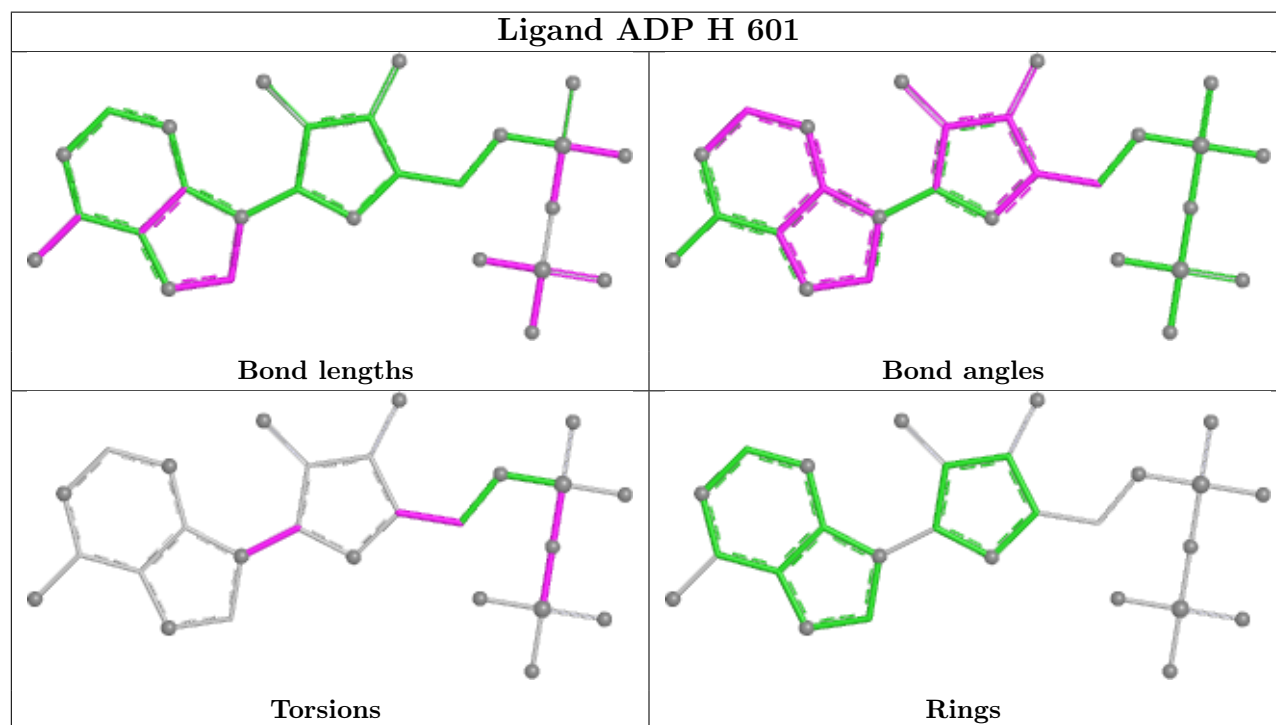
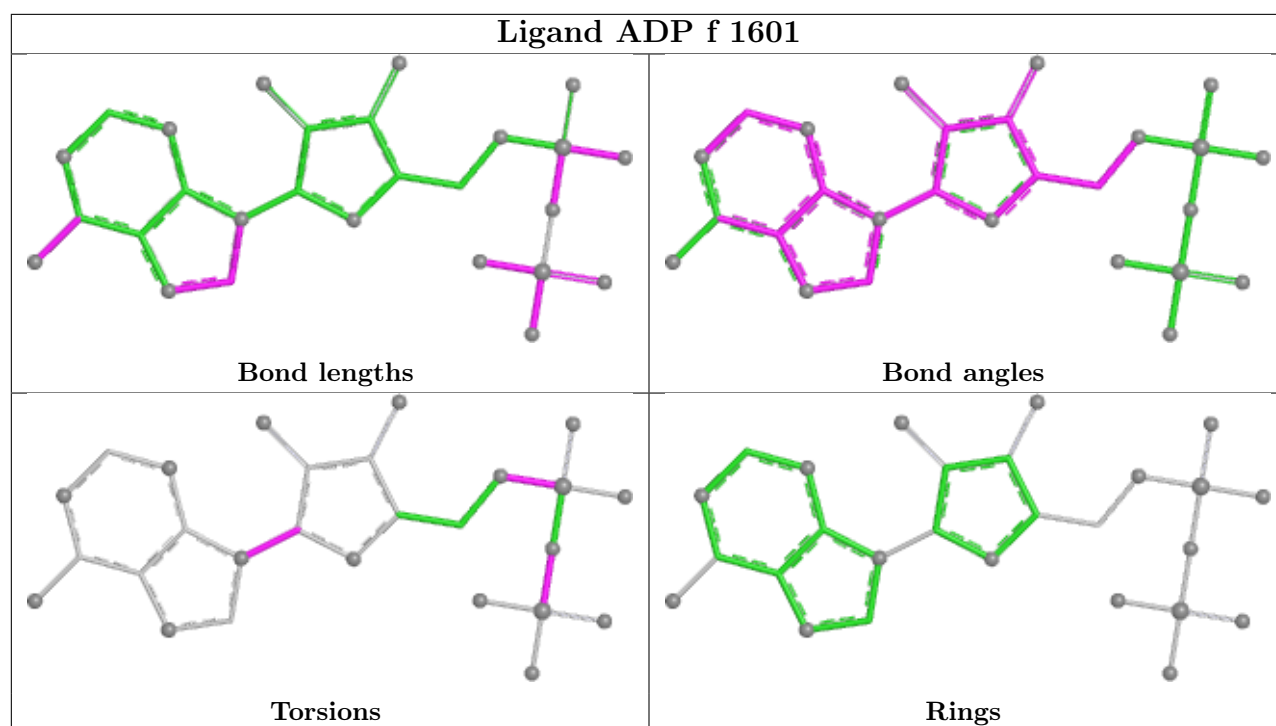
Mol	Chain	Res	Type	Clashes	Symm-Clashes
9	f	1601	ADP	6	0
9	H	601	ADP	3	0
9	g	1601	ADP	8	0
9	D	601	ADP	8	0
9	F	601	ADP	6	0
10	h	1602	BEF	1	0
9	k	2101	ADP	9	0

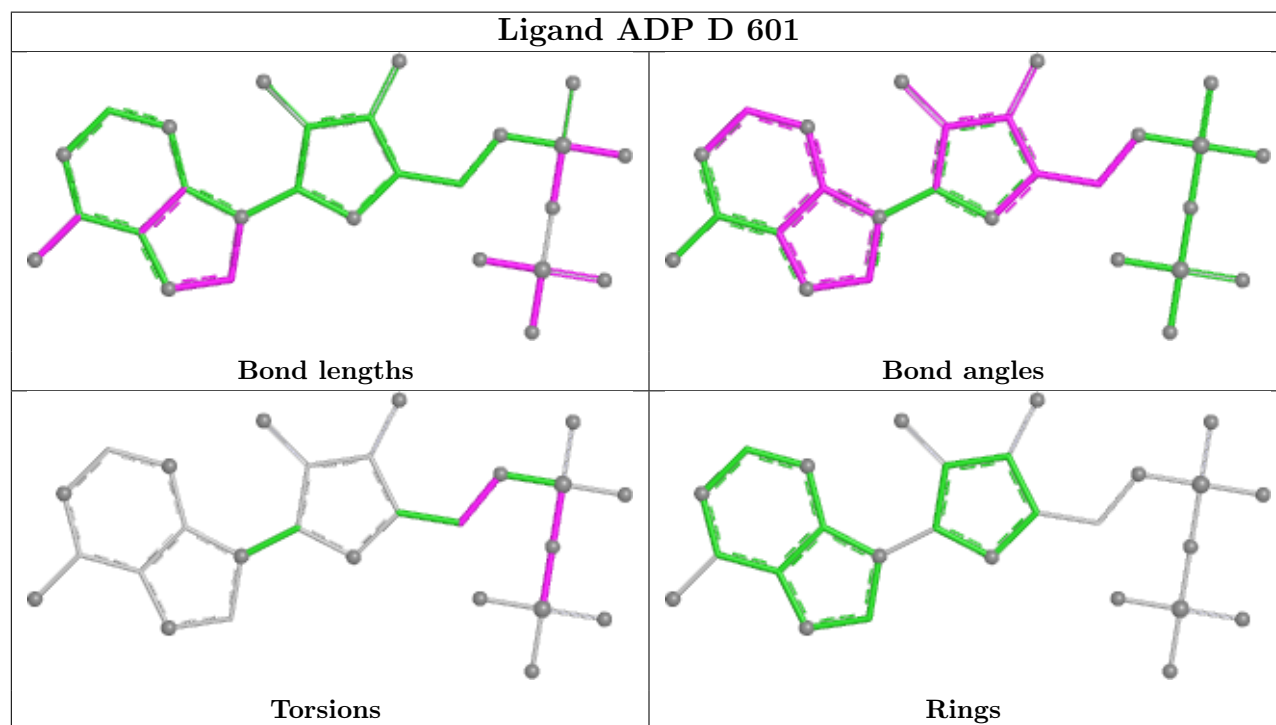
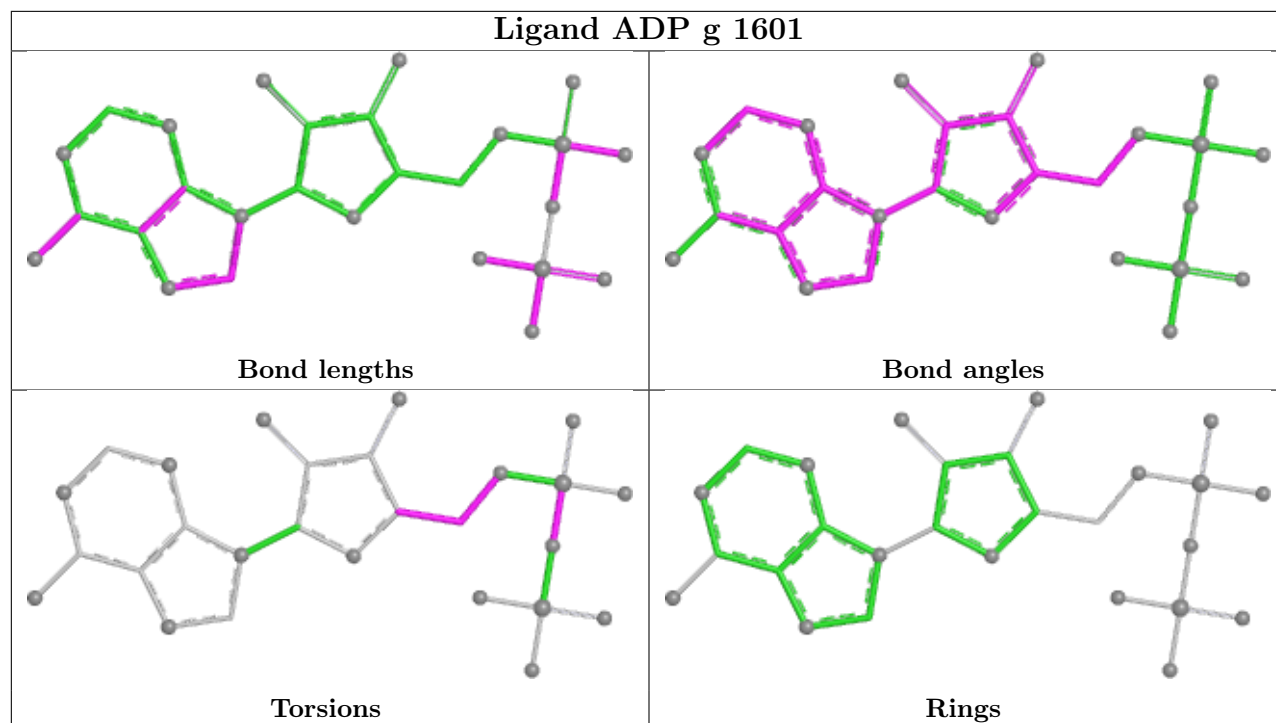
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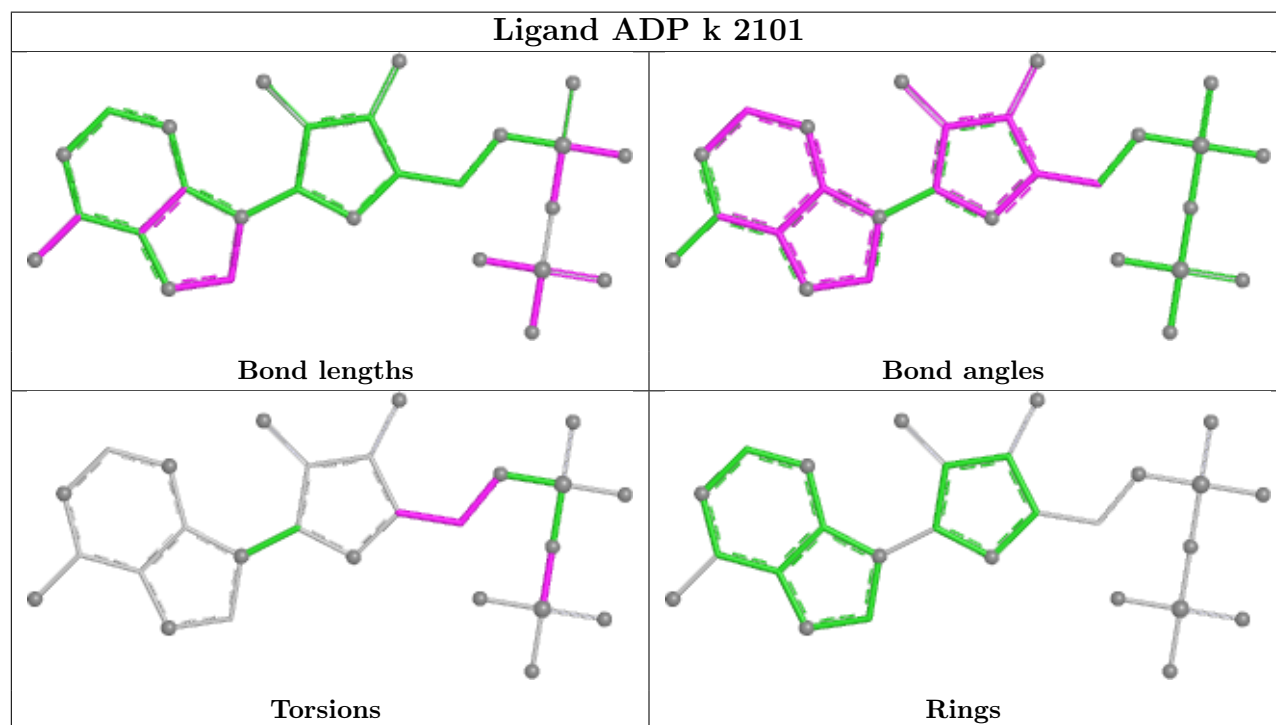
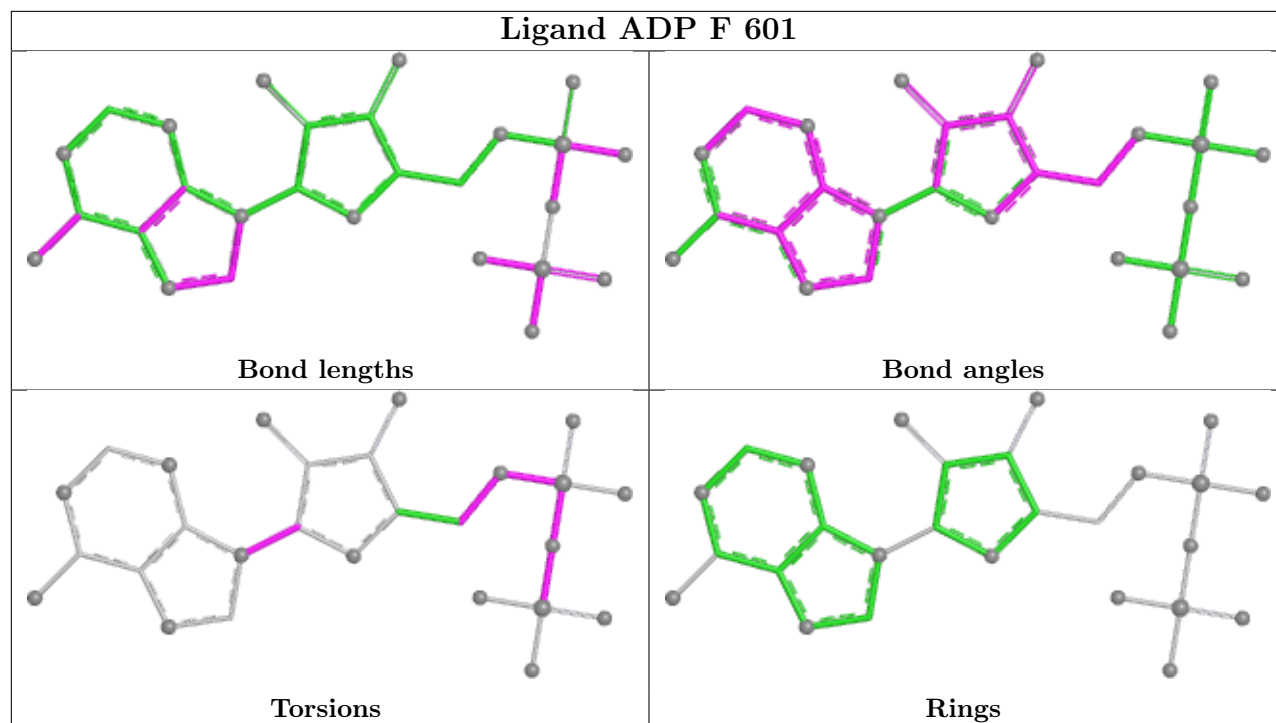
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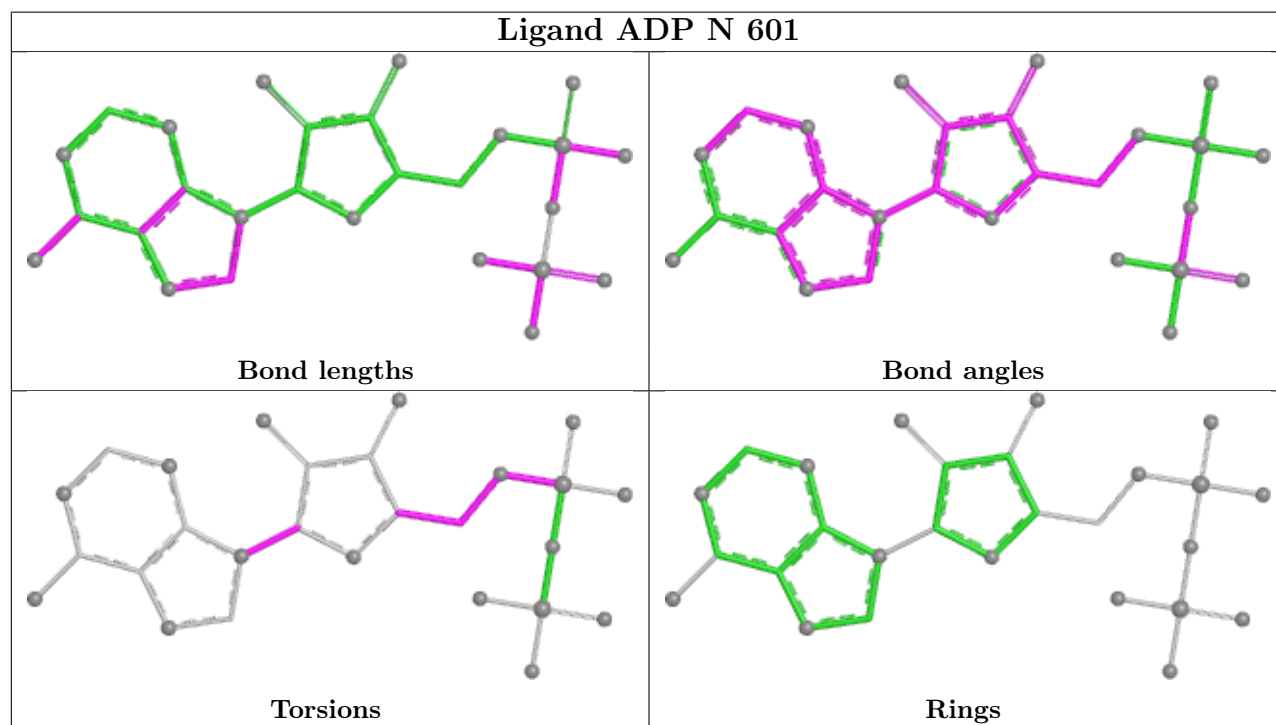
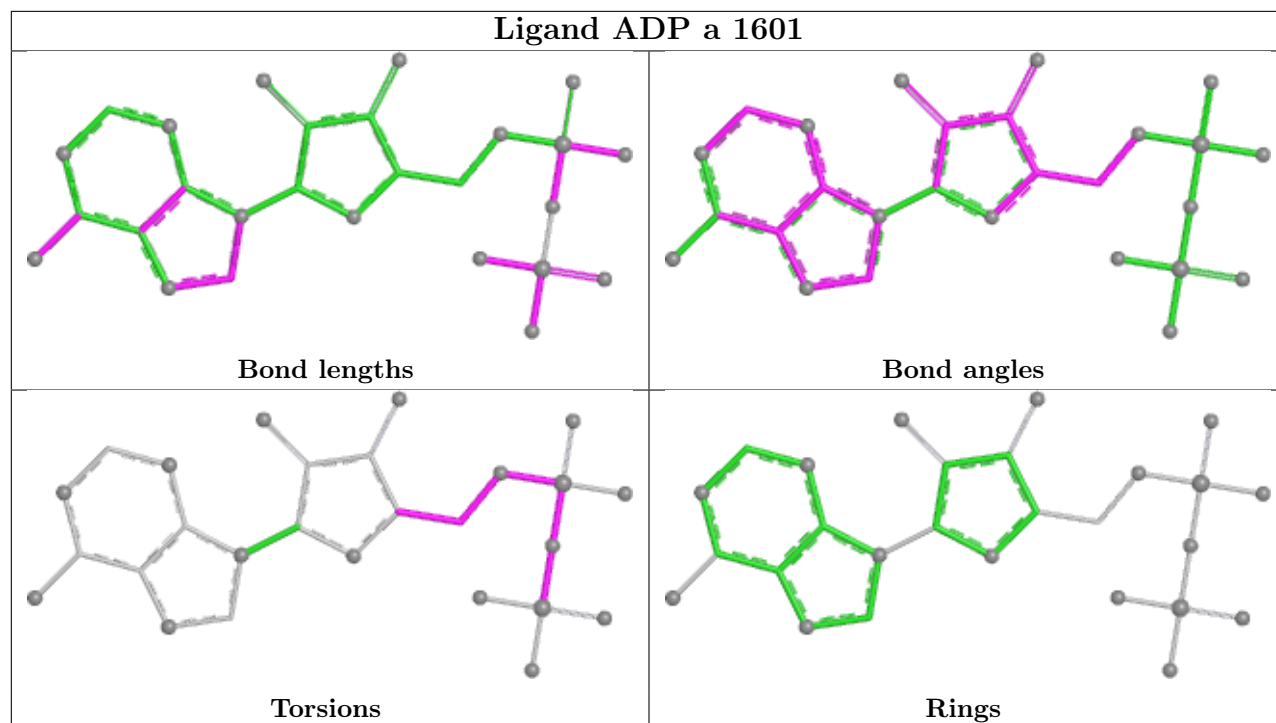
Mol	Chain	Res	Type	Clashes	Symm-Clashes
9	a	1601	ADP	2	0
9	N	601	ADP	6	0
10	N	602	BEF	3	0
9	L	601	ADP	7	0
10	F	602	BEF	2	0
9	J	601	ADP	6	0
9	C	1101	ADP	7	0
9	e	1601	ADP	3	0
9	b	1601	ADP	3	0
9	n	1601	ADP	4	0
9	G	601	ADP	5	0
9	E	601	ADP	2	0
9	h	1601	ADP	5	0
9	B	601	ADP	8	0
9	M	601	ADP	6	0
9	P	601	ADP	5	0
9	l	1601	ADP	8	0
11	j	1600	SO4	1	0
9	m	1601	ADP	4	0
10	C	1102	BEF	3	0
10	L	602	BEF	1	0
9	A	601	ADP	3	0
9	p	1601	ADP	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.

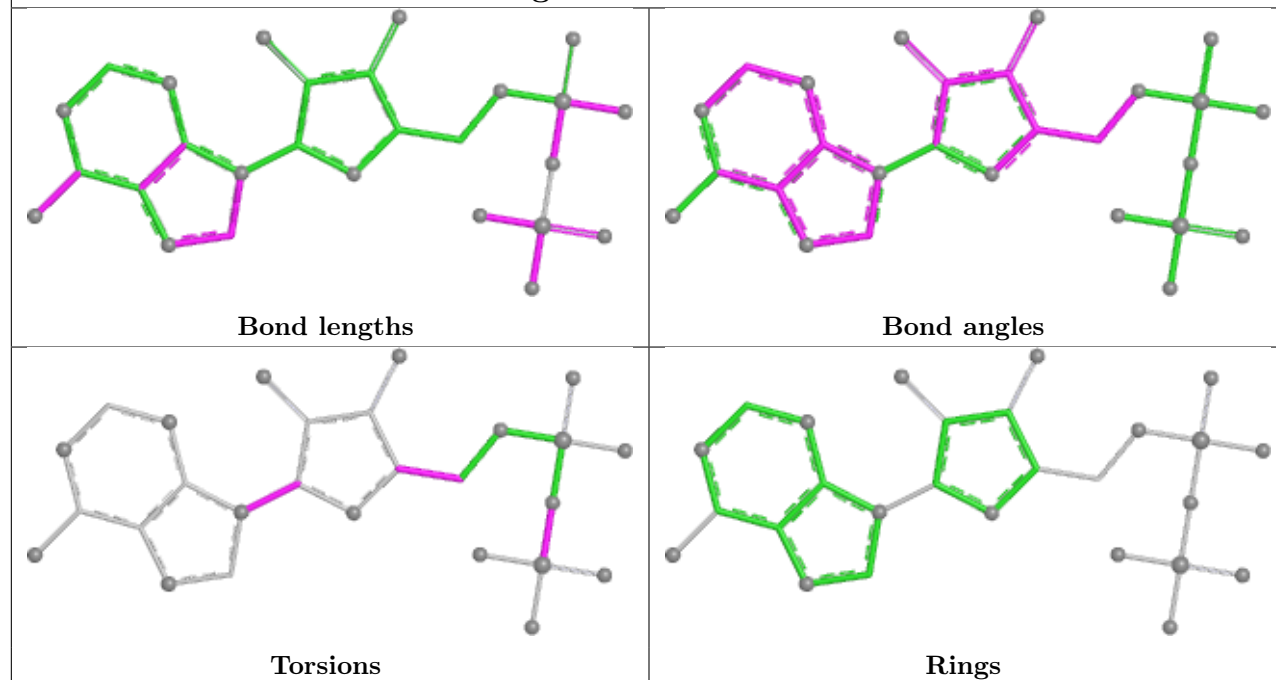




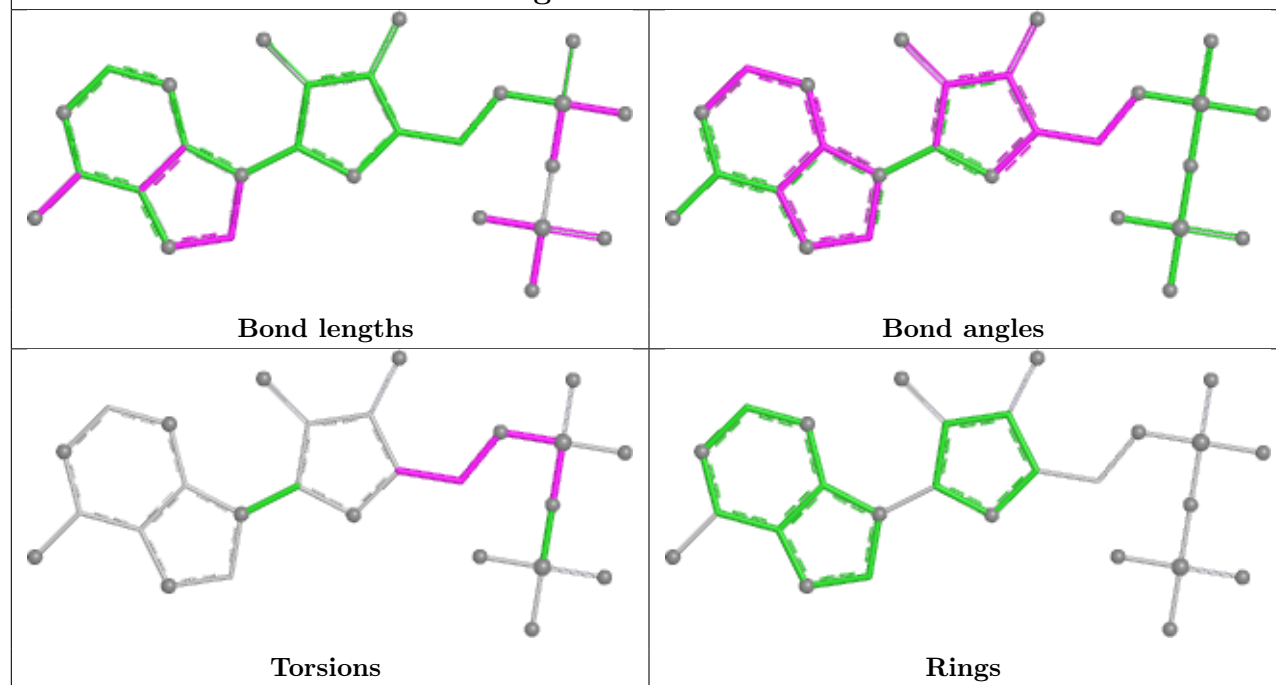




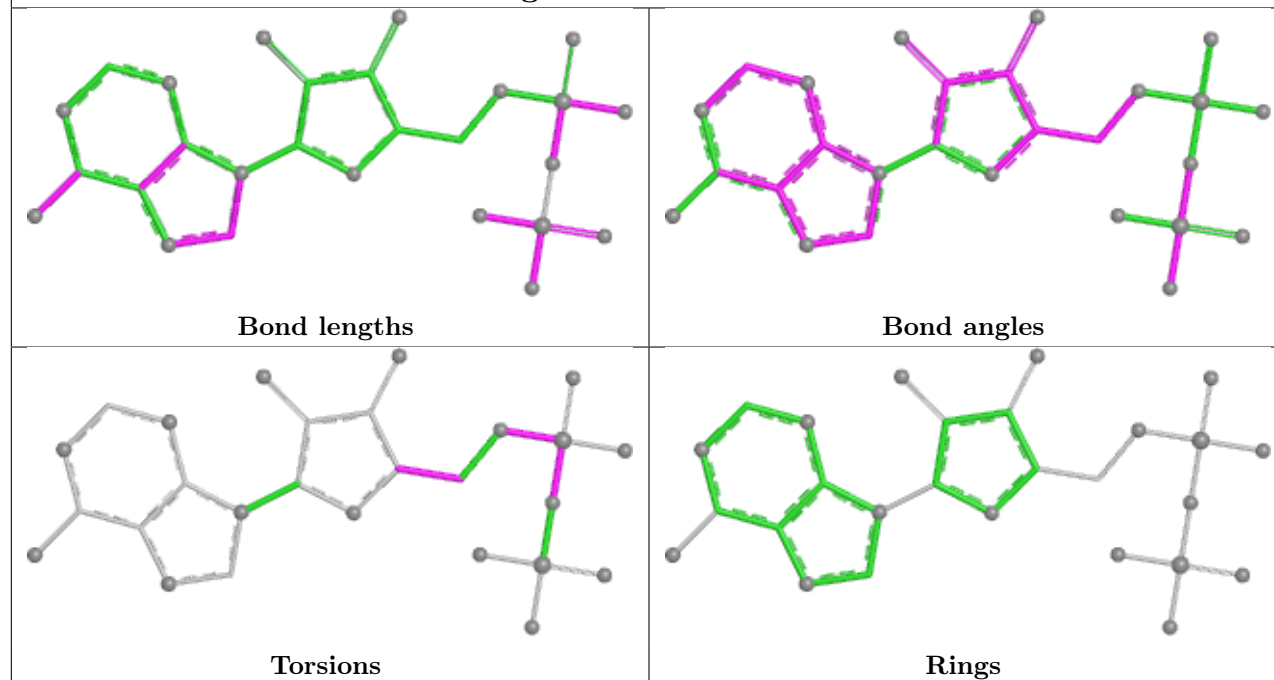
Ligand ADP L 601



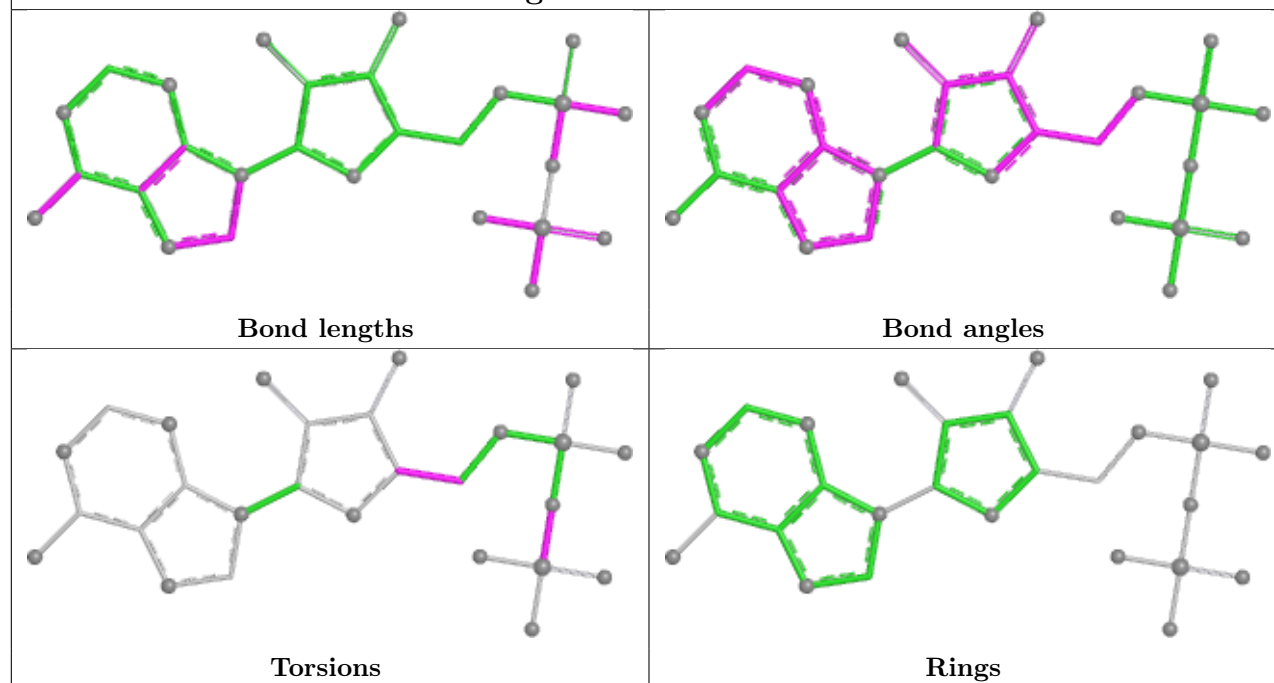
Ligand ADP J 601

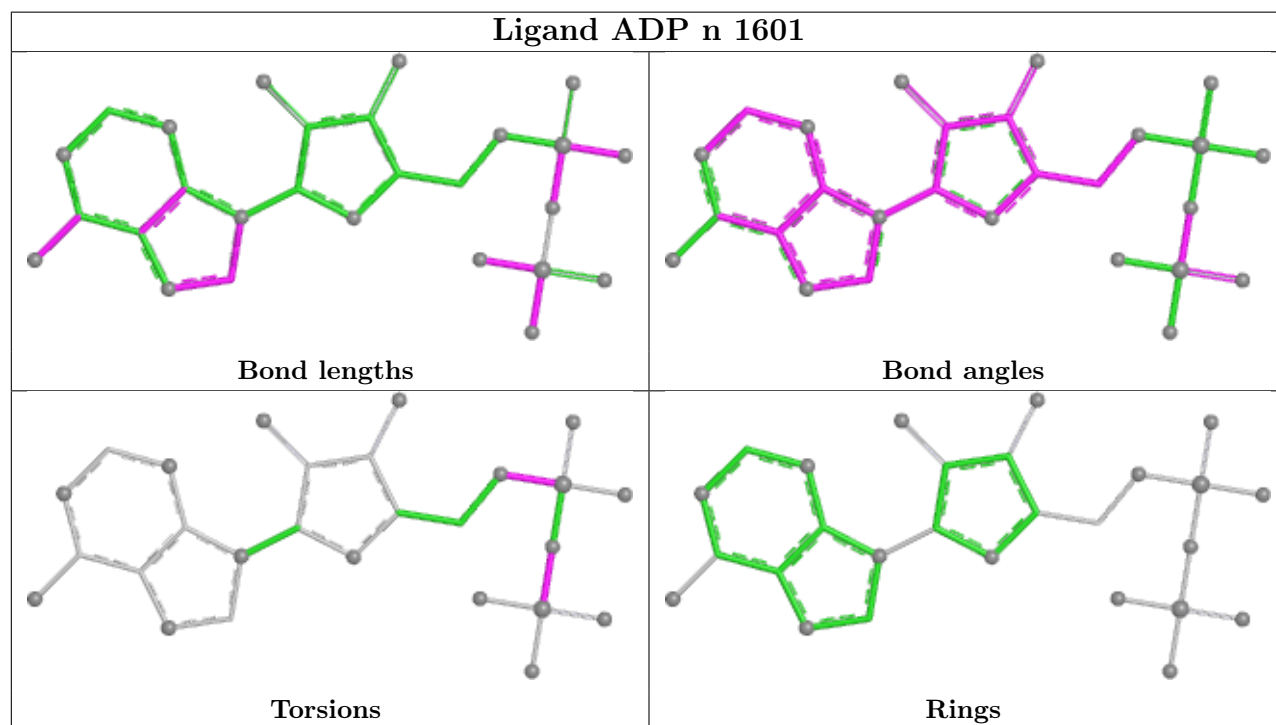
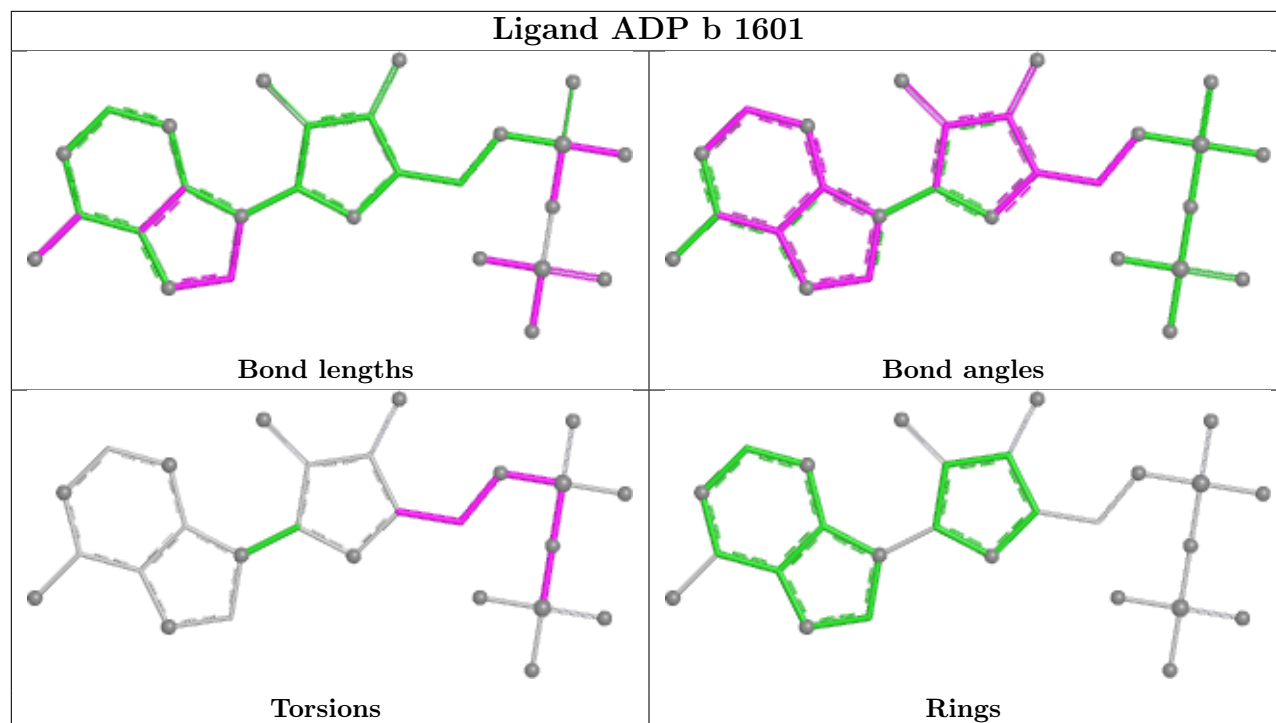


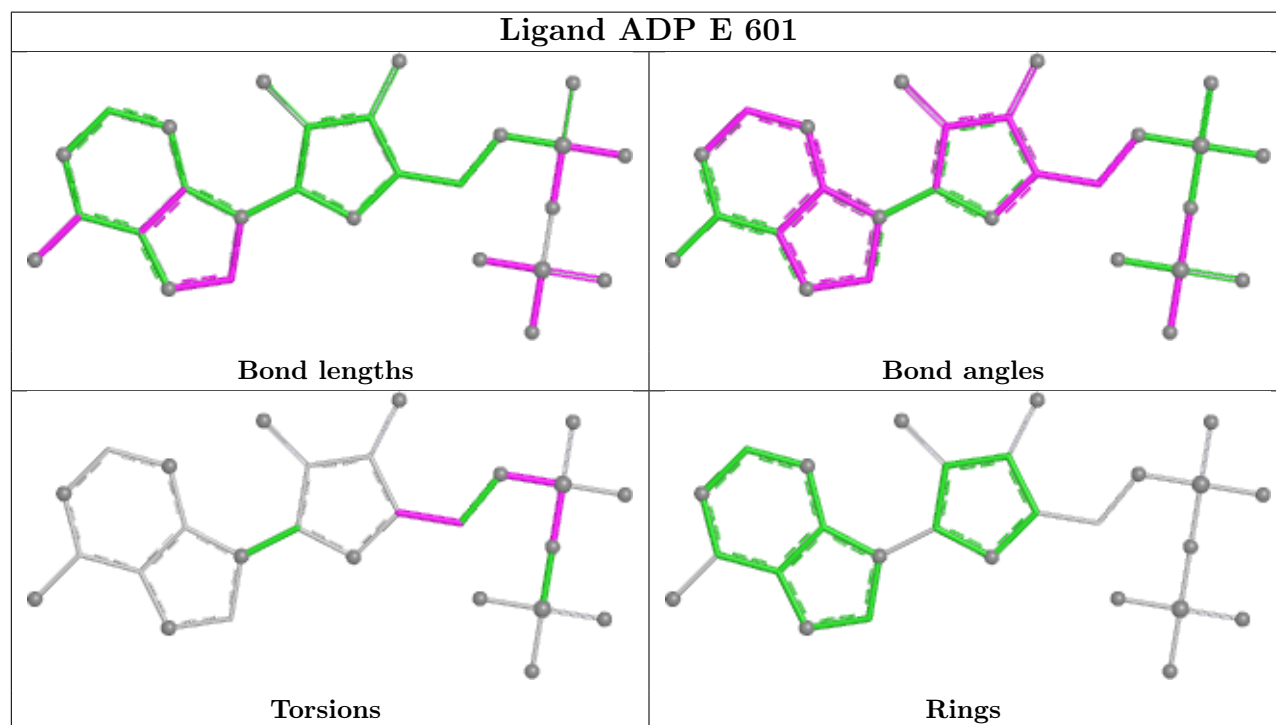
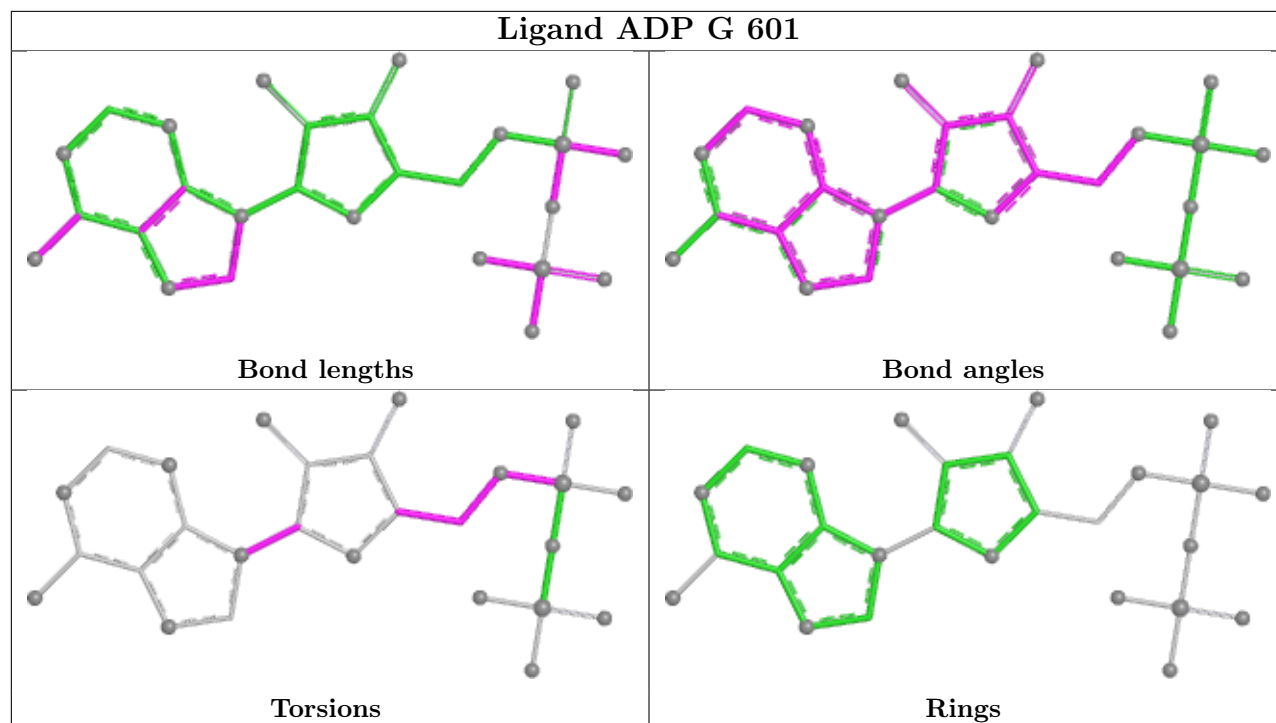
Ligand ADP C 1101

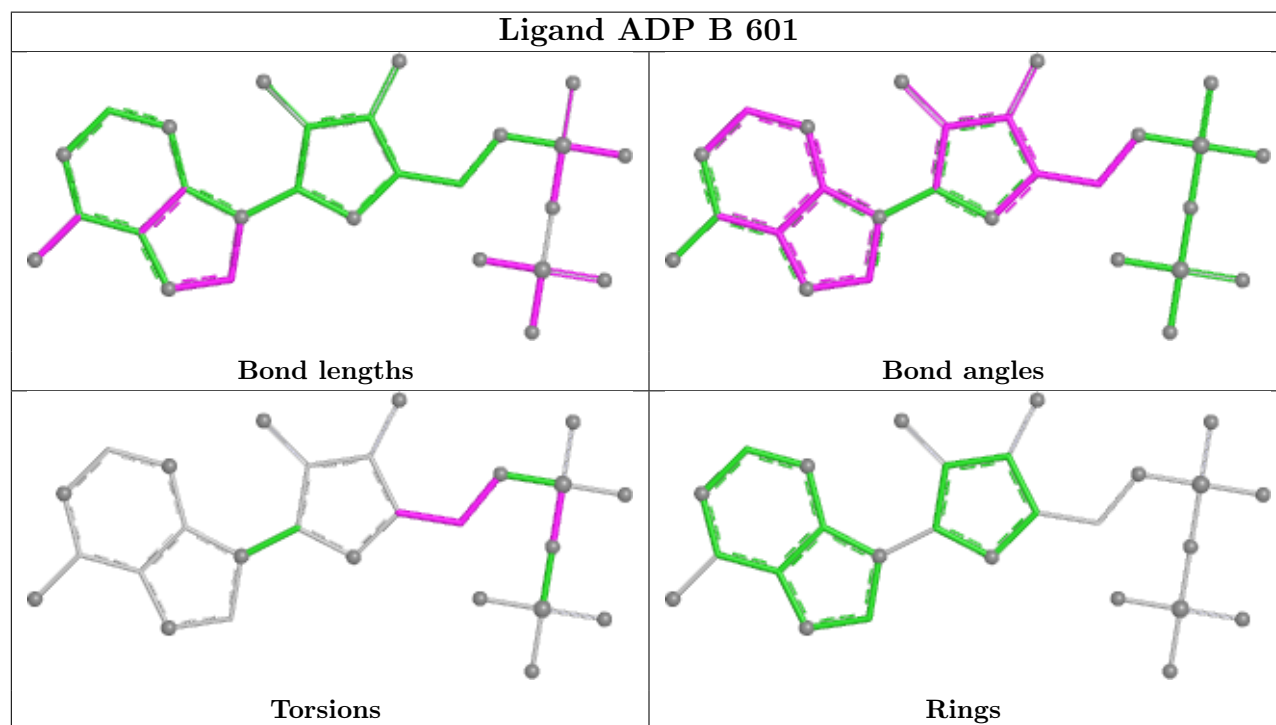
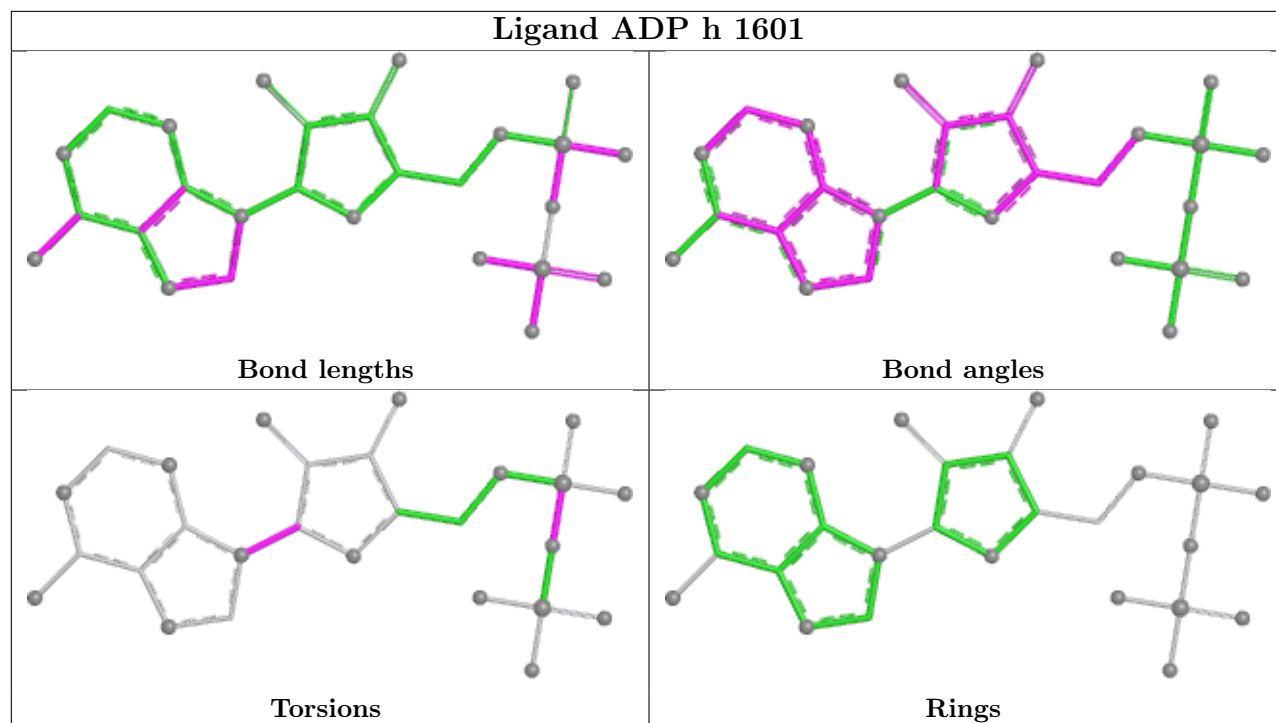


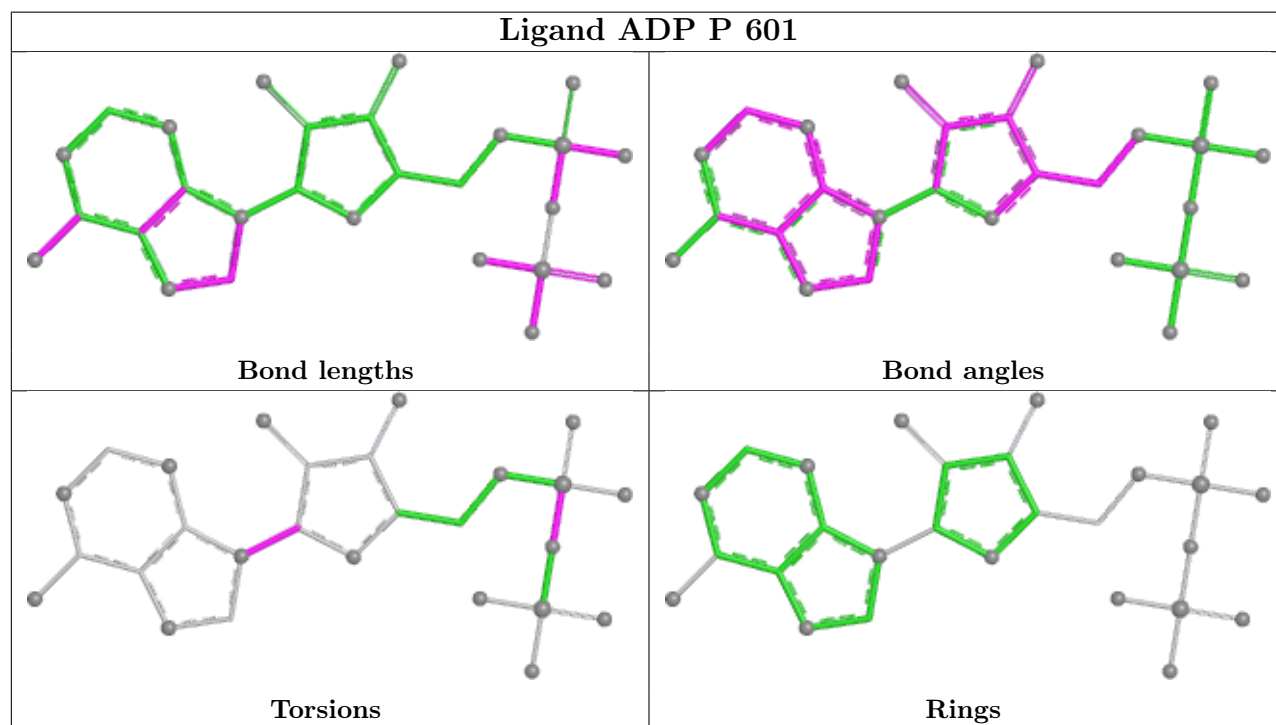
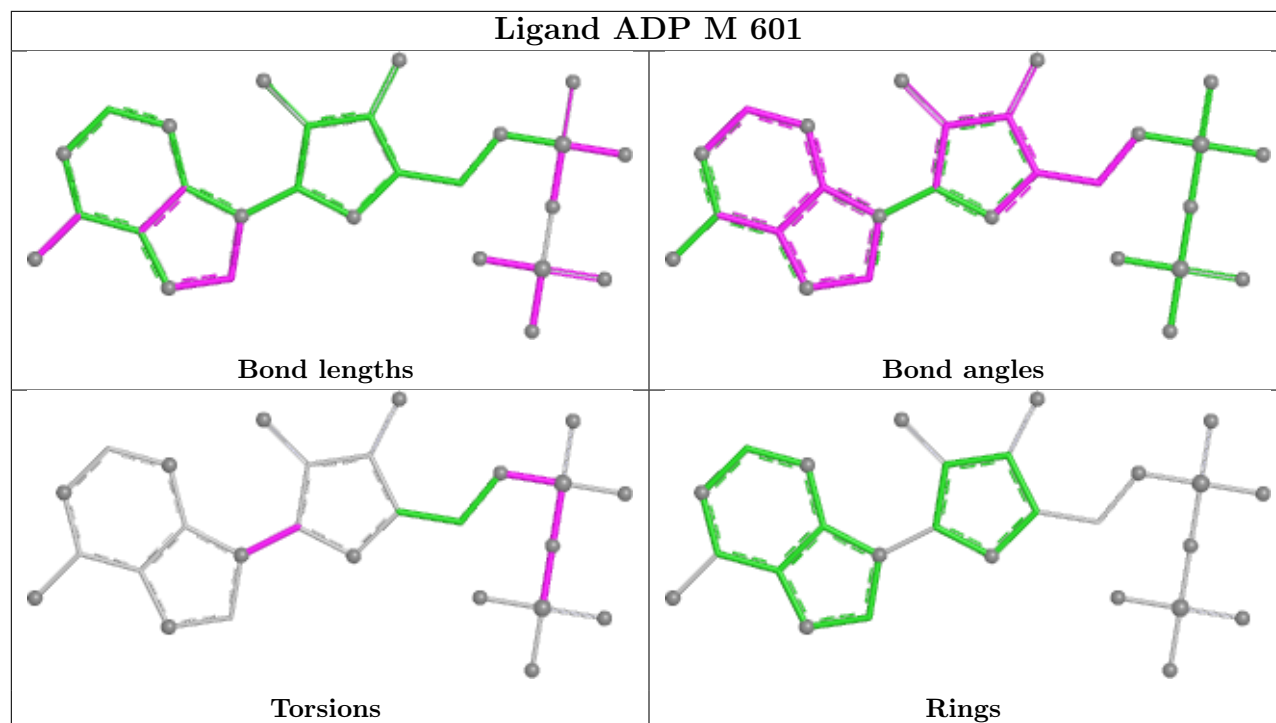
Ligand ADP e 1601

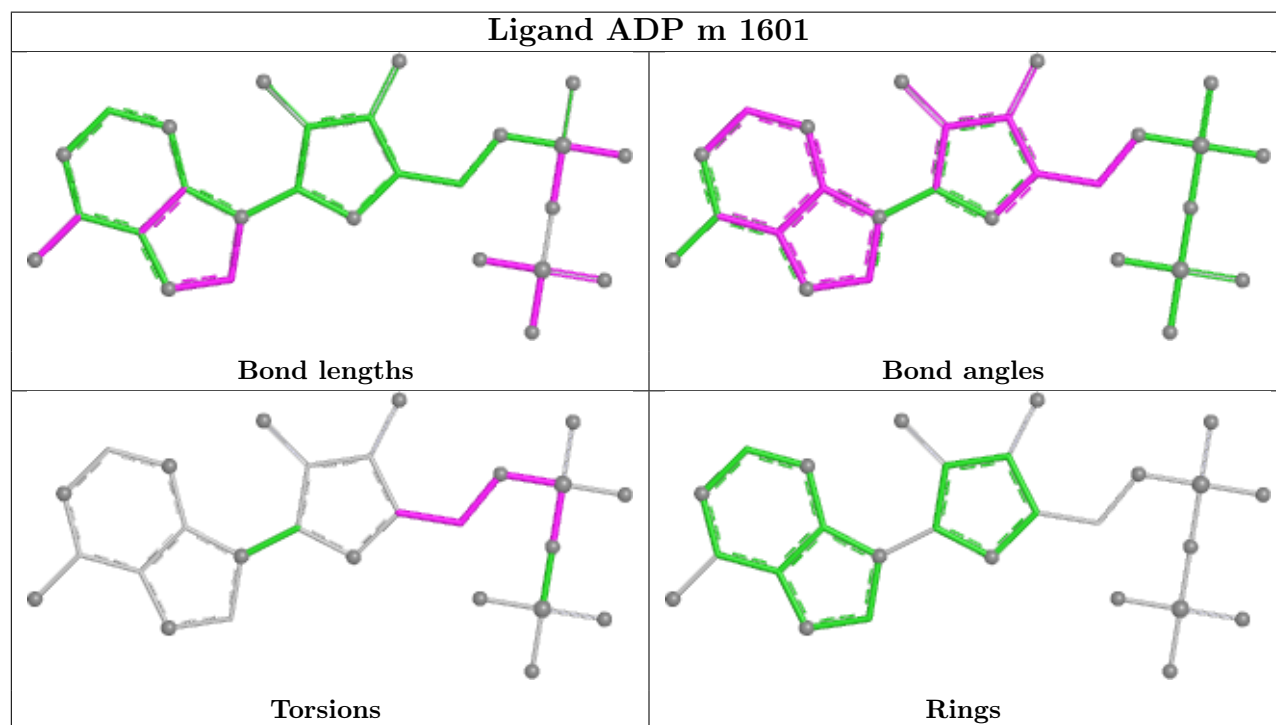
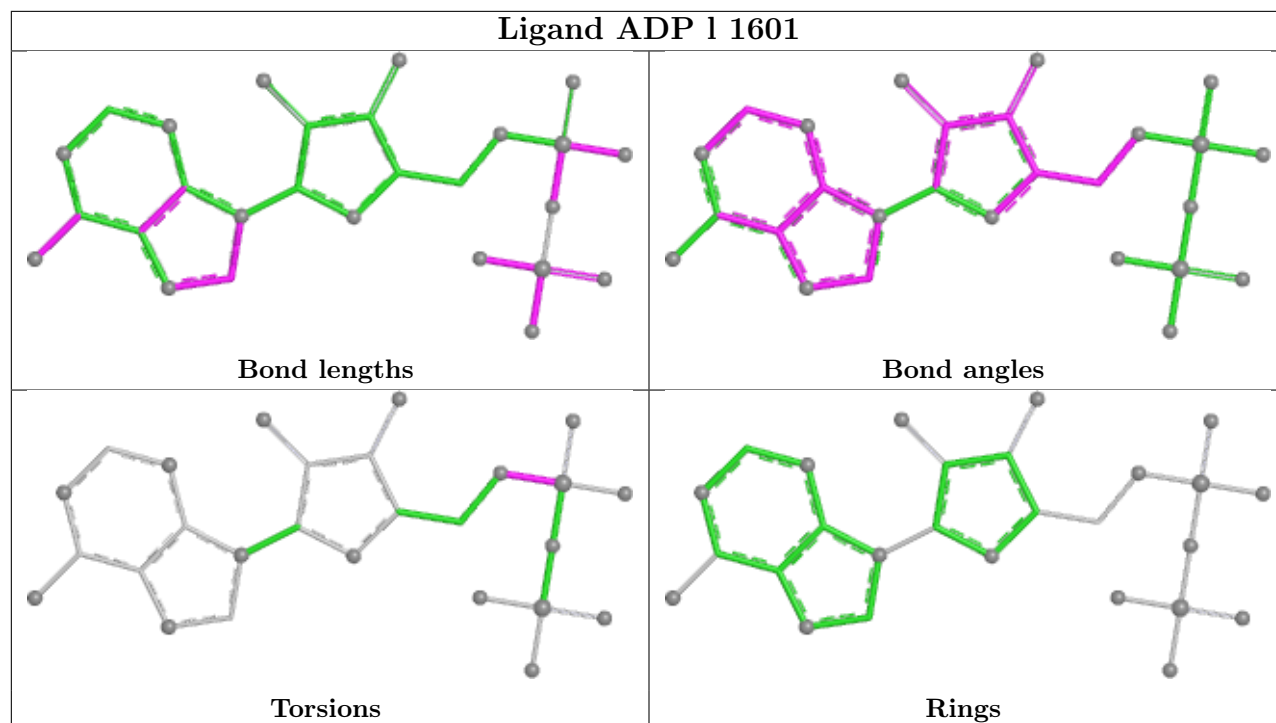


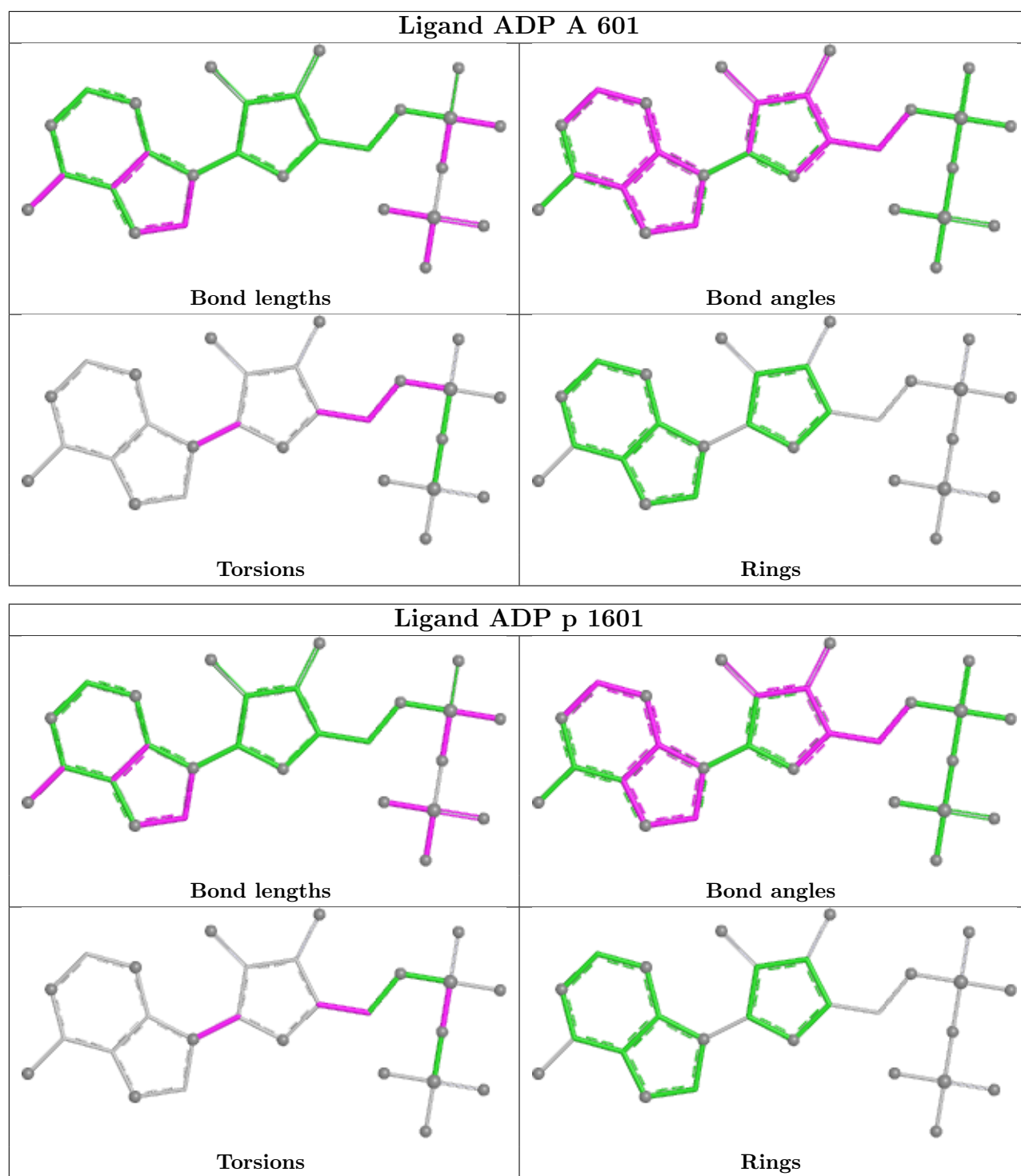












5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å²)	Q<0.9
1	A	544/559 (97%)	0.75	42 (7%)	19	18	72, 134, 206, 254	0
1	I	544/559 (97%)	0.84	55 (10%)	12	14	72, 134, 206, 254	0
1	a	544/559 (97%)	0.58	22 (4%)	42	30	72, 134, 206, 254	0
1	i	544/559 (97%)	0.69	37 (6%)	23	20	72, 134, 206, 254	0
2	B	513/527 (97%)	0.80	42 (8%)	17	17	47, 120, 192, 236	0
2	J	513/527 (97%)	0.87	52 (10%)	12	14	47, 120, 192, 236	0
2	b	513/527 (97%)	0.78	48 (9%)	14	16	47, 120, 192, 236	0
2	j	513/527 (97%)	0.77	48 (9%)	14	16	47, 120, 192, 236	0
3	C	514/590 (87%)	1.10	71 (13%)	6	10	73, 141, 205, 295	0
3	K	514/590 (87%)	0.90	54 (10%)	11	14	73, 141, 205, 295	0
3	c	514/590 (87%)	0.77	42 (8%)	17	17	73, 141, 205, 295	0
3	k	514/590 (87%)	0.85	45 (8%)	15	16	73, 141, 205, 295	0
4	D	522/528 (98%)	1.18	90 (17%)	4	6	70, 149, 232, 297	0
4	L	522/528 (98%)	0.95	63 (12%)	8	12	70, 149, 232, 297	0
4	d	522/528 (98%)	0.85	49 (9%)	14	16	70, 149, 232, 297	0
4	l	522/528 (98%)	0.99	72 (13%)	6	10	70, 149, 232, 297	0
5	E	525/562 (93%)	0.96	70 (13%)	7	10	56, 138, 238, 297	0
5	M	525/562 (93%)	0.84	49 (9%)	14	16	56, 138, 238, 297	0
5	e	525/562 (93%)	0.74	40 (7%)	20	18	56, 138, 238, 297	0
5	m	525/562 (93%)	0.81	54 (10%)	12	14	56, 138, 238, 297	0
6	F	533/546 (97%)	0.89	63 (11%)	9	12	42, 116, 214, 301	0
6	N	533/546 (97%)	0.85	53 (9%)	13	15	42, 116, 214, 301	0
6	f	533/546 (97%)	0.84	49 (9%)	14	16	42, 116, 214, 301	0
6	n	533/546 (97%)	0.88	61 (11%)	10	13	42, 116, 214, 301	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
7	G	509/550 (92%)	0.88	42 (8%) 17 17	65, 136, 207, 264	0
7	O	509/550 (92%)	0.91	52 (10%) 12 14	65, 136, 207, 264	0
7	g	509/550 (92%)	0.85	48 (9%) 14 16	65, 136, 207, 264	0
7	o	509/550 (92%)	0.84	49 (9%) 13 15	65, 136, 207, 264	0
8	H	525/568 (92%)	1.00	73 (13%) 6 9	70, 148, 236, 294	0
8	P	525/568 (92%)	0.85	45 (8%) 16 16	70, 148, 236, 294	0
8	h	525/568 (92%)	0.87	50 (9%) 14 15	70, 148, 236, 294	0
8	p	525/568 (92%)	0.87	55 (10%) 11 14	70, 148, 236, 294	0
All	All	16740/17720 (94%)	0.86	1685 (10%) 12 14	42, 136, 217, 301	0

All (1685) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
4	D	364	THR	8.8
4	l	1283	CYS	7.4
5	e	1034	ASP	7.2
8	p	1006	PRO	6.8
4	D	283	CYS	6.8
8	p	1516	ASN	6.6
7	o	1207	GLY	6.5
1	I	185	LEU	6.5
1	a	1552	PRO	6.4
3	C	67	GLU	6.3
4	l	1284	ASN	6.3
3	C	41	PRO	6.0
6	f	1487	ARG	6.0
7	O	165	ALA	6.0
7	O	178	PHE	6.0
7	G	216	ASN	5.9
6	F	468	ASP	5.9
6	n	1466	PRO	5.8
4	D	330	CYS	5.8
4	L	251	ASN	5.7
3	k	1243	VAL	5.6
6	N	487	ARG	5.5
8	P	527	ALA	5.5
8	P	269	ASN	5.4
8	p	1454	VAL	5.4
1	A	185	LEU	5.4

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Mol	Chain	Res	Type	RSRZ
6	n	1487	ARG	5.4
3	C	142	PRO	5.3
5	M	220	ASP	5.3
7	o	1228	GLY	5.3
4	D	284	ASN	5.3
1	i	1239	GLY	5.2
1	A	278	ALA	5.1
6	F	223	ASP	5.1
5	M	249	PHE	5.0
8	H	30	LYS	5.0
4	L	283	CYS	5.0
3	k	1151	MET	5.0
6	N	468	ASP	5.0
2	j	1372	ALA	4.9
8	H	450	LYS	4.9
7	o	1530	GLU	4.9
4	L	284	ASN	4.9
4	d	1480	ASP	4.9
4	l	1163	VAL	4.9
3	C	269	TRP	4.9
4	D	458	ALA	4.9
5	M	410	GLY	4.9
7	O	461	ALA	4.9
4	l	1252	ILE	4.8
4	d	1437	ALA	4.8
8	h	1370	VAL	4.8
7	g	1076	VAL	4.8
5	E	381	TYR	4.8
5	E	410	GLY	4.8
6	n	1539	SER	4.7
3	C	248	CYS	4.7
2	j	1254	SER	4.7
7	G	335	GLN	4.7
6	F	487	ARG	4.6
4	d	1025	ILE	4.6
3	k	1012	GLN	4.6
1	A	380	HIS	4.6
6	n	1457	THR	4.6
4	l	1253	ILE	4.6
5	M	304	ASP	4.6
6	F	368	THR	4.6
7	g	1165	ALA	4.5

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Mol	Chain	Res	Type	RSRZ
3	c	1058	THR	4.5
8	P	275	ASP	4.5
2	j	1288	GLN	4.5
8	H	345	GLY	4.5
1	I	246	CYS	4.5
2	B	407	ALA	4.5
5	m	1035	GLN	4.5
7	O	530	GLU	4.4
8	h	1249	VAL	4.4
7	o	1165	ALA	4.4
5	e	1220	ASP	4.4
7	o	1166	MET	4.4
8	p	1455	ALA	4.4
6	F	467	LEU	4.4
8	H	149	GLU	4.4
5	m	1037	ASN	4.4
3	k	1384	GLY	4.4
3	c	1146	GLU	4.4
3	c	1370	ASN	4.4
1	I	371	CYS	4.4
2	b	1151	GLU	4.4
5	M	352	GLU	4.3
4	L	519	LEU	4.3
5	E	295	TYR	4.3
3	K	158	SER	4.3
8	p	1140	LYS	4.3
6	F	163	ASP	4.3
5	m	1323	CYS	4.3
2	J	249	LYS	4.3
1	I	270	LEU	4.3
3	K	173	GLU	4.3
5	M	514	CYS	4.2
7	g	1167	SER	4.2
1	I	131	VAL	4.2
3	C	243	VAL	4.2
6	N	252	PHE	4.2
3	K	269	TRP	4.2
4	D	261	ASP	4.2
4	D	480	ASP	4.2
1	A	227	THR	4.2
3	K	58	THR	4.2
1	A	246	CYS	4.2

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Mol	Chain	Res	Type	RSRZ
4	l	1364	THR	4.1
4	D	363	VAL	4.1
7	o	1230	GLU	4.1
4	D	432	MET	4.1
8	H	209	VAL	4.1
4	D	348	ASP	4.1
5	E	362	ILE	4.1
3	K	264	GLU	4.1
6	f	1161	LYS	4.1
5	m	1398	SER	4.1
2	J	372	ALA	4.1
5	m	1507	ILE	4.1
6	n	1372	ASP	4.1
8	p	1155	ASP	4.1
5	E	261	LYS	4.1
1	I	186	ALA	4.1
4	l	1437	ALA	4.1
5	E	78	ASP	4.0
2	J	252	VAL	4.0
3	c	1260	ASN	4.0
6	N	108	PHE	4.0
3	K	364	TYR	4.0
5	m	1036	GLY	4.0
3	k	1307	HIS	4.0
3	K	159	ILE	3.9
4	l	1162	ILE	3.9
8	h	1330	ARG	3.9
3	C	295	VAL	3.9
5	E	363	VAL	3.9
1	I	99	THR	3.9
7	G	337	THR	3.9
4	D	252	ILE	3.9
5	M	34	ASP	3.9
3	c	1365	PHE	3.9
4	l	1236	LEU	3.9
5	m	1050	HIS	3.9
2	B	372	ALA	3.9
8	P	158	GLU	3.9
3	c	1307	HIS	3.9
6	N	66	MET	3.8
4	d	1298	ASN	3.8
4	l	1449	VAL	3.8

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Mol	Chain	Res	Type	RSRZ
6	N	216	ASP	3.8
6	f	1439	LYS	3.8
1	i	1232	ALA	3.8
7	o	1520	VAL	3.8
4	d	1082	SER	3.8
5	E	220	ASP	3.8
6	f	1120	ASP	3.8
8	h	1124	ALA	3.8
1	A	10	SER	3.8
1	i	1149	ASP	3.8
4	L	364	THR	3.8
7	O	513	ALA	3.8
1	i	1093	GLU	3.8
6	f	1065	GLU	3.8
7	O	345	HIS	3.8
5	E	35	GLN	3.8
6	F	161	LYS	3.8
6	F	66	MET	3.8
3	c	1264	GLU	3.8
3	k	1477	GLN	3.8
7	G	336	SER	3.8
7	g	1241	ILE	3.8
5	m	1358	THR	3.8
4	D	267	GLU	3.8
5	e	1400	GLU	3.8
8	P	156	LYS	3.8
8	H	235	HIS	3.8
2	J	204	SER	3.7
6	n	1465	ASP	3.7
8	H	378	ILE	3.7
1	i	1147	SER	3.7
3	C	151	MET	3.7
3	K	8	MET	3.7
3	c	1333	GLY	3.7
4	l	1444	ALA	3.7
8	h	1491	LYS	3.7
2	J	107	GLU	3.7
6	N	277	ILE	3.7
5	e	1383	GLN	3.7
3	C	38	CYS	3.7
6	n	1464	PHE	3.7
8	h	1019	ASN	3.7

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Mol	Chain	Res	Type	RSRZ
1	i	1069	ILE	3.7
6	F	454	ILE	3.7
3	K	380	MET	3.7
1	I	266	ASP	3.7
8	H	453	ALA	3.7
6	N	163	ASP	3.7
4	D	343	ARG	3.6
4	l	1007	SER	3.6
3	c	1455	THR	3.6
6	f	1431	MET	3.6
2	J	325	VAL	3.6
3	C	500	TRP	3.6
4	D	70	ILE	3.6
4	D	414	GLY	3.6
7	G	228	GLY	3.6
2	B	495	ARG	3.6
4	l	1255	ASN	3.6
5	E	412	ASN	3.6
7	G	131	LYS	3.6
4	d	1071	LEU	3.6
8	p	1487	PRO	3.6
7	O	336	SER	3.6
3	k	1352	CYS	3.6
5	E	271	ILE	3.6
4	L	433	GLU	3.6
6	N	361	GLU	3.6
1	I	293	ALA	3.6
3	C	58	THR	3.6
8	p	1025	ASP	3.6
3	k	1464	PRO	3.6
5	E	382	GLU	3.6
5	m	1377	CYS	3.6
1	I	180	VAL	3.6
7	o	1223	THR	3.6
2	j	1308	HIS	3.6
6	F	372	ASP	3.6
3	K	75	ALA	3.5
2	j	1201	GLY	3.5
6	N	223	ASP	3.5
4	D	442	GLU	3.5
3	C	377	CYS	3.5
3	K	16	THR	3.5

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Mol	Chain	Res	Type	RSRZ
4	d	1484	VAL	3.5
4	D	164	SER	3.5
7	O	146	ASP	3.5
4	l	1519	LEU	3.5
6	n	1507	TRP	3.5
2	J	254	SER	3.5
7	o	1216	ASN	3.5
8	H	85	LEU	3.5
2	b	1072	PRO	3.5
1	I	245	ALA	3.5
6	F	249	SER	3.5
2	b	1039	PRO	3.5
5	m	1173	ASP	3.5
3	C	200	ILE	3.5
6	n	1341	GLU	3.5
1	A	260	VAL	3.5
3	C	47	MET	3.5
7	O	373	THR	3.5
5	M	349	GLN	3.5
4	D	106	ALA	3.4
6	F	187	ASP	3.4
6	F	475	ASP	3.4
7	o	1524	ILE	3.4
4	l	1257	TYR	3.4
4	D	312	VAL	3.4
2	b	1194	GLN	3.4
8	h	1340	PRO	3.4
2	J	115	ILE	3.4
5	M	248	ASP	3.4
6	F	489	VAL	3.4
8	h	1356	GLU	3.4
7	O	45	GLY	3.4
3	C	25	ILE	3.4
3	C	292	PRO	3.4
3	k	1474	LYS	3.4
7	G	513	ALA	3.4
8	H	124	ALA	3.4
1	I	52	MET	3.4
4	D	211	ASP	3.4
6	F	490	GLY	3.4
7	G	349	CYS	3.4
8	p	1491	LYS	3.4

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Mol	Chain	Res	Type	RSRZ
3	k	1142	PRO	3.4
6	N	461	ASN	3.4
6	n	1467	LEU	3.4
4	l	1285	VAL	3.4
5	E	50	HIS	3.4
3	C	387	ASP	3.4
3	k	1058	THR	3.4
6	f	1187	ASP	3.4
1	a	1246	CYS	3.4
7	O	524	ILE	3.4
4	D	272	LEU	3.4
8	p	1019	ASN	3.4
1	I	338	VAL	3.4
3	K	357	VAL	3.4
7	G	529	SER	3.4
4	D	437	ALA	3.4
7	o	1227	ALA	3.4
4	L	426	SER	3.4
1	A	443	ARG	3.4
6	F	464	PHE	3.4
5	e	1367	GLN	3.3
5	m	1311	ASP	3.3
6	F	466	PRO	3.3
2	B	240	THR	3.3
5	M	114	GLU	3.3
3	k	1283	MET	3.3
7	O	335	GLN	3.3
8	p	1015	LYS	3.3
4	D	115	ILE	3.3
5	e	1507	ILE	3.3
6	f	1221	HIS	3.3
1	i	1183	ALA	3.3
8	p	1080	PRO	3.3
4	l	1213	VAL	3.3
7	O	259	VAL	3.3
6	F	435	GLY	3.3
6	n	1463	GLY	3.3
6	n	1024	THR	3.3
6	n	1091	THR	3.3
6	n	1161	LYS	3.3
5	e	1510	ILE	3.3
5	m	1344	ARG	3.3

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Mol	Chain	Res	Type	RSRZ
7	g	1266	ASP	3.3
8	h	1487	PRO	3.3
6	n	1142	ASN	3.3
5	M	36	GLY	3.3
4	l	1374	THR	3.3
1	A	93	GLU	3.3
3	C	525	ASP	3.3
5	E	465	ASP	3.3
8	h	1506	ASP	3.3
2	J	282	ASN	3.3
6	f	1486	THR	3.3
3	k	1231	HIS	3.3
1	I	14	PHE	3.2
3	k	1007	PHE	3.2
4	D	478	LEU	3.2
4	l	1524	ILE	3.2
5	m	1031	ILE	3.2
7	G	303	ALA	3.2
8	H	236	VAL	3.2
2	B	292	ASP	3.2
6	F	112	GLY	3.2
6	f	1227	ARG	3.2
2	J	480	ALA	3.2
1	A	228	VAL	3.2
3	C	331	VAL	3.2
7	g	1426	ASP	3.2
4	d	1383	ASN	3.2
1	i	1522	ILE	3.2
2	J	150	ARG	3.2
4	D	524	ILE	3.2
5	e	1202	GLU	3.2
6	N	235	ILE	3.2
2	J	234	ALA	3.2
8	H	311	HIS	3.2
4	L	432	MET	3.2
5	E	113	ASP	3.2
5	E	387	THR	3.2
6	f	1226	THR	3.2
6	n	1461	ASN	3.2
1	I	264	ILE	3.2
7	o	1208	ALA	3.2
5	m	1217	LYS	3.2

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Mol	Chain	Res	Type	RSRZ
3	C	352	CYS	3.2
6	n	1213	LEU	3.2
2	B	512	ASP	3.2
5	e	1035	GLN	3.2
4	d	1352	GLU	3.2
8	h	1455	ALA	3.2
8	h	1535	ALA	3.2
2	j	1054	CYS	3.2
7	g	1033	CYS	3.2
4	D	370	ASN	3.2
5	e	1387	THR	3.2
1	A	254	ALA	3.2
2	b	1372	ALA	3.2
5	m	1468	ALA	3.2
5	m	1508	SER	3.2
5	E	255	PRO	3.2
3	C	159	ILE	3.1
7	G	224	PHE	3.1
8	p	1367	ARG	3.1
2	j	1351	GLN	3.1
3	c	1047	MET	3.1
8	h	1042	CYS	3.1
1	A	271	GLU	3.1
2	b	1489	GLU	3.1
3	k	1125	LEU	3.1
4	L	140	HIS	3.1
1	I	16	GLY	3.1
4	l	1367	ARG	3.1
1	I	537	ALA	3.1
4	D	214	VAL	3.1
4	l	1182	SER	3.1
6	f	1169	VAL	3.1
7	O	529	SER	3.1
1	A	516	GLY	3.1
2	j	1348	LEU	3.1
4	l	1370	ASN	3.1
6	F	324	ASN	3.1
4	L	350	VAL	3.1
3	K	358	GLU	3.1
8	p	1428	ILE	3.1
2	j	1284	PHE	3.1
4	d	1304	PHE	3.1

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Mol	Chain	Res	Type	RSRZ
1	I	179	MET	3.1
3	K	54	GLY	3.1
8	P	268	HIS	3.1
1	A	36	VAL	3.1
3	C	484	ILE	3.1
2	J	250	PHE	3.1
7	o	1349	CYS	3.1
4	D	471	SER	3.1
1	I	522	ILE	3.1
4	D	241	ILE	3.1
4	D	263	ILE	3.1
8	h	1057	ASN	3.1
8	p	1077	ILE	3.1
4	L	11	PHE	3.1
2	j	1493	LEU	3.1
5	m	1164	THR	3.1
2	B	243	VAL	3.0
3	c	1182	VAL	3.0
8	P	186	VAL	3.0
8	p	1078	VAL	3.0
2	J	304	ASN	3.0
2	b	1475	ASN	3.0
6	N	251	PHE	3.0
2	J	489	GLU	3.0
6	F	327	ARG	3.0
7	O	447	GLU	3.0
2	B	72	PRO	3.0
3	k	1008	MET	3.0
6	N	151	LEU	3.0
3	c	1369	ASP	3.0
4	l	1256	ASP	3.0
1	i	1416	GLY	3.0
1	i	1261	GLN	3.0
3	K	455	THR	3.0
6	N	171	THR	3.0
8	h	1032	ILE	3.0
4	D	291	SER	3.0
4	D	484	VAL	3.0
5	E	508	SER	3.0
6	N	231	ALA	3.0
8	p	1250	PHE	3.0
7	o	1311	ASN	3.0

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Mol	Chain	Res	Type	RSRZ
8	h	1149	GLU	3.0
2	j	1373	THR	3.0
7	g	1120	ILE	3.0
4	L	285	VAL	3.0
7	O	130	ARG	3.0
4	D	456	GLU	3.0
1	A	16	GLY	3.0
3	c	1255	GLY	3.0
6	n	1295	ILE	3.0
5	E	39	LYS	3.0
1	A	14	PHE	3.0
1	A	381	SER	3.0
4	L	443	PHE	3.0
8	H	189	VAL	3.0
1	a	1293	ALA	3.0
2	b	1150	ARG	3.0
4	d	1519	LEU	3.0
6	n	1151	LEU	3.0
3	c	1147	ASN	3.0
4	L	514	CYS	3.0
5	e	1295	TYR	3.0
5	e	1514	CYS	3.0
7	O	129	TYR	3.0
5	e	1114	GLU	3.0
6	f	1222	PRO	3.0
7	g	1341	ILE	3.0
4	L	415	GLY	3.0
6	F	24	THR	3.0
6	F	539	SER	3.0
8	H	370	VAL	3.0
7	g	1193	ASP	3.0
5	e	1509	ASN	3.0
6	n	1376	CYS	3.0
4	l	1234	ILE	3.0
5	e	1115	ILE	3.0
7	G	43	THR	3.0
7	G	294	LEU	3.0
1	A	517	VAL	3.0
3	K	52	MET	3.0
7	G	509	SER	3.0
8	p	1020	SER	3.0
6	n	1436	ALA	3.0

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Mol	Chain	Res	Type	RSRZ
2	b	1070	ASP	3.0
5	e	1173	ASP	3.0
6	N	465	ASP	3.0
4	d	1070	ILE	2.9
4	L	527	SER	2.9
3	C	485	ASP	2.9
3	C	487	ASP	2.9
8	H	35	ILE	2.9
8	H	397	ILE	2.9
5	E	279	PRO	2.9
8	H	41	MET	2.9
3	C	143	VAL	2.9
4	L	214	VAL	2.9
6	n	1171	THR	2.9
8	p	1146	VAL	2.9
1	I	254	ALA	2.9
7	o	1241	ILE	2.9
6	N	242	TYR	2.9
2	J	454	GLU	2.9
4	D	383	ASN	2.9
5	E	172	ASN	2.9
4	l	1484	VAL	2.9
5	E	36	GLY	2.9
5	E	324	GLN	2.9
8	H	277	SER	2.9
8	h	1323	VAL	2.9
4	D	374	THR	2.9
5	E	377	CYS	2.9
5	m	1060	ILE	2.9
4	d	1523	ASP	2.9
5	e	1172	ASN	2.9
3	c	1143	VAL	2.9
4	d	1163	VAL	2.9
1	i	1169	ILE	2.9
7	g	1524	ILE	2.9
8	P	528	ILE	2.9
4	D	239	PHE	2.9
1	i	1398	MET	2.9
2	b	1031	ASP	2.9
5	M	400	GLU	2.9
5	m	1045	GLU	2.9
5	m	1248	ASP	2.9

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Mol	Chain	Res	Type	RSRZ
2	B	323	GLY	2.9
4	D	189	VAL	2.9
4	D	265	LYS	2.9
5	E	434	VAL	2.9
6	F	162	VAL	2.9
4	l	1169	PHE	2.9
7	g	1166	MET	2.9
1	A	23	ASP	2.8
2	J	224	LYS	2.9
6	F	36	ASN	2.9
1	i	1342	SER	2.8
2	J	253	ASP	2.8
5	E	512	VAL	2.8
2	B	348	LEU	2.8
5	e	1489	LEU	2.8
7	g	1252	ALA	2.8
4	D	323	PHE	2.8
3	c	1351	ASN	2.8
4	l	1457	ASN	2.8
6	N	341	GLU	2.8
6	f	1188	ASN	2.8
1	I	90	GLN	2.8
1	I	265	ASP	2.8
8	P	25	ASP	2.8
8	h	1155	ASP	2.8
2	B	480	ALA	2.8
6	N	91	THR	2.8
4	L	7	SER	2.8
4	D	298	ASN	2.8
5	M	202	GLU	2.8
7	O	47	LEU	2.8
1	a	1294	GLN	2.8
6	n	1490	GLY	2.8
7	g	1335	GLN	2.8
1	A	208	ALA	2.8
1	i	1290	ASP	2.8
2	J	364	ALA	2.8
3	C	150	ALA	2.8
6	N	486	THR	2.8
8	H	489	ALA	2.8
3	c	1171	MET	2.8
4	l	1047	MET	2.8

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Mol	Chain	Res	Type	RSRZ
3	C	271	ARG	2.8
4	D	163	VAL	2.8
7	O	75	VAL	2.8
1	i	1154	GLU	2.8
4	D	208	GLU	2.8
8	P	392	ASN	2.8
2	j	1419	ALA	2.8
8	P	311	HIS	2.8
1	A	371	CYS	2.8
4	D	256	ASP	2.8
4	D	275	CYS	2.8
4	d	1335	ASP	2.8
6	N	187	ASP	2.8
6	N	437	LYS	2.8
4	D	39	LEU	2.8
5	e	1032	VAL	2.8
1	a	1263	ASN	2.8
2	B	288	GLN	2.8
2	B	408	GLU	2.8
5	e	1210	ASN	2.8
8	P	427	GLU	2.8
2	B	127	ALA	2.8
6	n	1391	THR	2.8
6	F	433	LYS	2.8
4	L	528	ARG	2.8
6	n	1342	ASP	2.8
8	h	1122	LEU	2.8
5	M	510	ILE	2.8
6	n	1225	PRO	2.8
5	m	1295	TYR	2.8
2	B	296	GLN	2.8
3	K	123	GLN	2.8
7	o	1093	GLU	2.8
7	o	1352	PHE	2.8
5	M	172	ASN	2.8
8	H	158	GLU	2.8
4	d	1382	ALA	2.8
8	h	1346	ALA	2.8
4	l	1392	ARG	2.7
2	j	1190	LEU	2.7
6	f	1280	LEU	2.7
8	p	1038	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
5	E	328	ASP	2.7
5	E	345	TRP	2.7
2	j	1325	VAL	2.7
4	d	1312	VAL	2.7
4	l	1243	PRO	2.7
8	H	247	VAL	2.7
8	P	113	VAL	2.7
3	K	308	TYR	2.7
5	e	1261	LYS	2.7
6	n	1337	GLN	2.7
8	h	1375	GLN	2.7
2	j	1012	GLU	2.7
8	p	1486	GLU	2.7
7	g	1223	THR	2.7
4	L	264	LEU	2.7
6	F	158	LEU	2.7
7	O	241	ILE	2.7
2	J	33	VAL	2.7
4	L	126	SER	2.7
6	F	472	MET	2.7
8	h	1371	PHE	2.7
2	b	1004	GLN	2.7
6	N	398	GLY	2.7
6	f	1198	GLN	2.7
8	H	488	GLY	2.7
1	I	150	THR	2.7
1	i	1150	THR	2.7
4	D	188	ASN	2.7
4	L	252	ILE	2.7
8	h	1150	ILE	2.7
4	l	1229	LYS	2.7
5	E	34	ASP	2.7
5	e	1113	ASP	2.7
5	m	1220	ASP	2.7
3	c	1331	VAL	2.7
8	P	162	MET	2.7
7	G	124	LEU	2.7
8	P	201	TYR	2.7
5	E	365	ARG	2.7
5	E	376	THR	2.7
6	n	1226	THR	2.7
6	n	1504	GLU	2.7

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Mol	Chain	Res	Type	RSRZ
3	C	379	ILE	2.7
3	k	1200	ILE	2.7
4	d	1309	ASN	2.7
6	F	221	HIS	2.7
6	N	462	SER	2.7
4	D	350	VAL	2.7
6	F	169	VAL	2.7
8	H	152	ASP	2.7
4	L	373	PRO	2.7
3	c	1330	ARG	2.7
3	k	1281	GLN	2.7
5	m	1367	GLN	2.7
7	o	1335	GLN	2.7
4	D	429	ALA	2.7
3	k	1284	CYS	2.7
5	e	1388	THR	2.7
7	g	1530	GLU	2.7
4	D	479	ASN	2.7
5	m	1338	ASN	2.7
1	I	316	MET	2.7
2	J	347	MET	2.7
1	a	1481	HIS	2.7
8	P	235	HIS	2.7
2	B	508	LEU	2.7
3	C	145	VAL	2.7
4	L	363	VAL	2.7
6	n	1354	VAL	2.7
8	P	355	VAL	2.7
1	I	11	ASP	2.7
2	j	1515	ILE	2.7
3	K	12	GLN	2.7
4	L	480	ASP	2.7
4	d	1336	ILE	2.7
5	E	93	GLN	2.7
6	n	1198	GLN	2.7
2	J	302	GLY	2.7
2	b	1501	ALA	2.7
7	O	228	GLY	2.7
8	H	270	ALA	2.7
3	C	358	GLU	2.7
4	l	1218	THR	2.7
7	O	17	THR	2.7

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Mol	Chain	Res	Type	RSRZ
7	O	514	THR	2.7
7	G	33	CYS	2.7
3	K	365	PHE	2.7
2	J	490	SER	2.7
4	d	1158	LEU	2.7
3	K	465	ILE	2.6
4	D	373	PRO	2.6
4	L	500	PRO	2.6
4	l	1181	ILE	2.6
3	k	1185	ASP	2.6
4	L	522	ASP	2.6
5	M	348	GLY	2.6
5	e	1468	ALA	2.6
1	I	222	TYR	2.6
4	d	1257	TYR	2.6
4	l	1282	LYS	2.6
6	f	1433	LYS	2.6
8	H	532	THR	2.6
6	f	1430	ASN	2.6
1	i	1381	SER	2.6
4	D	222	SER	2.6
7	G	149	SER	2.6
8	p	1277	SER	2.6
4	l	1254	VAL	2.6
8	p	1204	VAL	2.6
5	E	380	ILE	2.6
6	n	1454	ILE	2.6
3	c	1041	PRO	2.6
8	H	347	PRO	2.6
8	H	460	PRO	2.6
8	P	191	PRO	2.6
8	h	1342	PRO	2.6
2	J	251	LYS	2.6
2	b	1358	GLY	2.6
2	b	1404	GLY	2.6
2	j	1371	GLY	2.6
4	D	329	GLY	2.6
4	L	334	ALA	2.6
5	E	53	ALA	2.6
6	n	1394	ALA	2.6
4	D	331	LYS	2.6
2	j	1241	ASP	2.6

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Mol	Chain	Res	Type	RSRZ
3	K	95	THR	2.6
4	d	1396	ASP	2.6
6	f	1024	THR	2.6
2	J	408	GLU	2.6
2	j	1324	GLU	2.6
4	D	260	MET	2.6
5	E	330	GLU	2.6
1	I	462	LEU	2.6
5	m	1332	ASN	2.6
6	N	255	SER	2.6
4	D	521	ILE	2.6
6	f	1454	ILE	2.6
7	G	120	ILE	2.6
3	c	1150	ALA	2.6
4	l	1281	ALA	2.6
6	F	198	GLN	2.6
7	O	445	ALA	2.6
6	F	226	THR	2.6
3	C	228	ASP	2.6
5	m	1167	ASP	2.6
7	o	1096	ASP	2.6
8	P	267	LEU	2.6
8	H	371	PHE	2.6
1	I	10	SER	2.6
2	B	421	ASN	2.6
2	b	1094	SER	2.6
4	d	1512	SER	2.6
6	f	1515	ASN	2.6
3	k	1229	VAL	2.6
6	N	433	LYS	2.6
1	a	1483	ALA	2.6
4	L	259	GLN	2.6
4	L	499	GLN	2.6
5	M	143	PRO	2.6
5	M	468	ALA	2.6
8	H	389	ALA	2.6
1	a	1341	MET	2.6
2	b	1464	TYR	2.6
7	o	1523	THR	2.6
8	H	523	THR	2.6
5	E	384	GLU	2.6
7	o	1018	ASP	2.6

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Mol	Chain	Res	Type	RSRZ
7	o	1272	ASP	2.6
3	K	295	VAL	2.6
4	d	1115	ILE	2.6
4	d	1162	ILE	2.6
7	g	1399	ILE	2.6
8	H	305	VAL	2.6
8	p	1397	ILE	2.6
4	L	16	LYS	2.6
1	A	53	LEU	2.6
3	C	294	LEU	2.6
5	M	67	PRO	2.6
6	f	1006	LEU	2.6
8	H	313	LEU	2.6
1	I	380	HIS	2.6
5	E	558	GLY	2.6
6	f	1219	GLY	2.6
8	H	99	GLY	2.6
6	n	1499	CYS	2.6
2	B	107	GLU	2.6
2	J	163	SER	2.6
4	L	168	SER	2.6
5	e	1291	SER	2.6
6	f	1124	ILE	2.6
3	C	242	ARG	2.6
5	E	247	LYS	2.6
5	m	1412	ASN	2.6
6	F	227	ARG	2.6
7	G	266	ASP	2.6
8	H	516	ASN	2.6
1	I	73	LEU	2.6
3	C	309	LEU	2.6
4	D	73	PRO	2.6
4	D	127	ALA	2.6
4	D	441	GLN	2.6
4	l	1371	ALA	2.6
1	i	1423	GLY	2.6
7	g	1220	PHE	2.6
8	H	388	GLY	2.6
5	E	164	THR	2.5
2	b	1359	CYS	2.5
3	C	296	ILE	2.5
5	M	406	CYS	2.5

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Mol	Chain	Res	Type	RSRZ
1	I	18	GLU	2.5
2	B	151	GLU	2.5
4	L	266	GLU	2.5
4	l	1267	GLU	2.5
7	o	1149	SER	2.5
4	l	1363	VAL	2.5
5	m	1172	ASN	2.5
6	F	225	PRO	2.5
8	p	1069	ALA	2.5
1	i	1012	THR	2.5
3	c	1237	HIS	2.5
4	L	57	ILE	2.5
3	C	184	LYS	2.5
6	N	366	TYR	2.5
2	b	1128	SER	2.5
3	c	1385	SER	2.5
5	M	291	SER	2.5
4	d	1266	GLU	2.5
4	d	1514	CYS	2.5
5	E	262	GLU	2.5
2	J	109	LEU	2.5
3	C	520	LEU	2.5
4	L	191	LEU	2.5
6	f	1062	LEU	2.5
2	b	1304	ASN	2.5
3	k	1009	ASN	2.5
6	f	1163	ASP	2.5
1	I	278	ALA	2.5
8	H	324	PRO	2.5
8	p	1389	ALA	2.5
8	P	97	GLY	2.5
1	I	244	ILE	2.5
3	C	209	ILE	2.5
8	P	77	ILE	2.5
6	F	245	THR	2.5
6	F	391	THR	2.5
4	l	1072	HIS	2.5
5	E	379	ARG	2.5
3	k	1158	SER	2.5
1	i	1148	VAL	2.5
3	c	1301	VAL	2.5
4	d	1214	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
8	H	341	LEU	2.5
8	h	1354	LEU	2.5
4	l	1480	ASP	2.5
5	E	218	ASP	2.5
5	E	222	ASP	2.5
5	e	1198	ASP	2.5
5	m	1324	GLN	2.5
7	g	1513	ALA	2.5
8	H	481	ALA	2.5
1	I	421	GLY	2.5
5	M	556	ILE	2.5
6	N	435	GLY	2.5
8	p	1378	ILE	2.5
1	A	189	THR	2.5
1	A	184	LEU	2.5
3	C	442	TYR	2.5
7	G	129	TYR	2.5
7	O	242	LEU	2.5
7	g	1124	LEU	2.5
3	C	8	MET	2.5
3	C	214	VAL	2.5
8	H	454	VAL	2.5
2	b	1363	GLU	2.5
5	m	1262	GLU	2.5
6	N	504	GLU	2.5
7	O	111	GLU	2.5
2	J	294	PRO	2.5
3	c	1387	ASP	2.5
5	M	113	ASP	2.5
7	O	266	ASP	2.5
7	o	1513	ALA	2.5
1	I	284	ARG	2.5
2	J	395	THR	2.5
3	K	15	THR	2.5
3	k	1282	LEU	2.5
4	l	1492	THR	2.5
7	G	288	THR	2.5
7	g	1068	THR	2.5
7	g	1102	THR	2.5
2	J	277	SER	2.5
6	f	1025	SER	2.5
6	f	1483	SER	2.5

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Mol	Chain	Res	Type	RSRZ
7	o	1529	SER	2.5
8	h	1187	SER	2.5
3	c	1151	MET	2.5
3	c	1214	VAL	2.5
5	M	353	HIS	2.5
8	H	204	VAL	2.5
7	o	1447	GLU	2.5
7	o	1278	ILE	2.5
2	b	1201	GLY	2.5
2	b	1322	GLY	2.5
3	C	384	GLY	2.5
5	e	1231	GLY	2.5
6	f	1479	ASP	2.5
6	n	1508	ASP	2.5
5	m	1388	THR	2.5
6	N	245	THR	2.5
4	D	7	SER	2.5
1	I	285	VAL	2.5
3	k	1219	VAL	2.5
8	H	408	VAL	2.5
6	n	1355	TYR	2.5
8	p	1479	TYR	2.5
5	m	1506	LYS	2.4
8	h	1280	GLU	2.4
2	b	1515	ILE	2.4
4	D	55	ILE	2.4
4	L	115	ILE	2.4
4	d	1253	ILE	2.4
2	b	1480	ALA	2.4
8	P	433	ARG	2.4
1	i	1071	SER	2.4
3	K	168	SER	2.4
4	d	1260	MET	2.4
6	n	1016	ASP	2.4
6	n	1500	ASP	2.4
6	N	42	THR	2.4
5	m	1292	VAL	2.4
1	I	350	PHE	2.4
4	L	304	PHE	2.4
3	C	166	HIS	2.4
3	c	1067	GLU	2.4
5	m	1505	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
6	F	33	LEU	2.4
7	O	104	LEU	2.4
7	G	528	GLY	2.4
1	a	1124	THR	2.4
2	B	254	SER	2.4
4	L	256	ASP	2.4
5	E	288	ASP	2.4
5	E	552	ASP	2.4
6	N	342	ASP	2.4
6	f	1144	SER	2.4
6	n	1249	SER	2.4
6	n	1509	SER	2.4
8	p	1492	THR	2.4
5	M	528	VAL	2.4
8	p	1368	VAL	2.4
2	b	1340	CYS	2.4
3	k	1198	ILE	2.4
4	l	1070	ILE	2.4
8	H	29	ILE	2.4
1	A	277	GLU	2.4
1	I	93	GLU	2.4
5	E	251	HIS	2.4
8	P	266	LEU	2.4
2	B	260	GLN	2.4
2	j	1429	ALA	2.4
5	M	324	GLN	2.4
6	n	1336	ALA	2.4
5	m	1359	ASN	2.4
5	m	1509	ASN	2.4
6	f	1526	ASN	2.4
4	l	1117	PRO	2.4
5	e	1491	PRO	2.4
3	c	1486	GLY	2.4
2	J	255	THR	2.4
2	J	355	LYS	2.4
2	j	1187	SER	2.4
4	d	1030	SER	2.4
6	F	167	THR	2.4
6	N	161	LYS	2.4
7	O	333	SER	2.4
8	p	1031	SER	2.4
8	p	1221	THR	2.4

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Mol	Chain	Res	Type	RSRZ
4	L	213	VAL	2.4
8	p	1526	PHE	2.4
5	M	178	ASP	2.4
5	e	1213	ASP	2.4
1	a	1244	ILE	2.4
2	J	514	ILE	2.4
5	M	30	ILE	2.4
6	N	138	ILE	2.4
7	o	1171	ILE	2.4
3	K	250	LEU	2.4
8	P	159	LEU	2.4
4	l	1015	GLU	2.4
5	M	50	HIS	2.4
7	G	476	GLU	2.4
1	A	186	ALA	2.4
1	I	202	ALA	2.4
6	F	184	ALA	2.4
8	p	1489	ALA	2.4
2	B	282	ASN	2.4
6	N	334	GLY	2.4
7	g	1228	GLY	2.4
8	P	347	PRO	2.4
6	N	31	SER	2.4
1	I	36	VAL	2.4
3	K	367	PHE	2.4
4	l	1227	THR	2.4
7	O	36	VAL	2.4
7	o	1264	VAL	2.4
8	H	249	VAL	2.4
8	h	1456	PHE	2.4
2	j	1115	ILE	2.4
3	k	1465	ILE	2.4
7	g	1351	LEU	2.4
4	D	335	ASP	2.4
5	M	552	ASP	2.4
7	O	255	ASP	2.4
2	J	12	GLU	2.4
3	C	363	GLU	2.4
7	G	230	GLU	2.4
7	O	210	GLU	2.4
7	o	1111	GLU	2.4
8	H	439	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
2	B	192	HIS	2.4
3	C	107	CYS	2.4
4	d	1259	GLN	2.4
4	l	1458	ALA	2.4
7	O	80	ALA	2.4
8	P	81	ALA	2.4
3	k	1269	TRP	2.4
4	L	370	ASN	2.4
4	d	1479	ASN	2.4
4	l	1500	PRO	2.4
6	F	248	ASN	2.4
6	f	1432	ASN	2.4
7	o	1380	GLY	2.4
8	H	157	ASN	2.4
8	h	1483	ASN	2.4
2	B	5	ILE	2.4
2	j	1245	ILE	2.4
3	C	70	VAL	2.4
4	d	1104	LEU	2.4
4	l	1312	VAL	2.4
6	F	53	ILE	2.4
6	n	1544	THR	2.4
7	g	1464	ILE	2.4
8	P	163	ILE	2.4
4	D	345	ASP	2.4
5	E	173	ASP	2.4
5	E	304	ASP	2.4
6	F	393	ASP	2.4
7	g	1427	TYR	2.4
4	l	1341	GLU	2.4
5	E	396	GLU	2.4
6	N	474	GLU	2.4
6	n	1186	ALA	2.4
1	i	1090	GLN	2.3
3	K	265	LYS	2.4
7	g	1452	GLN	2.3
6	n	1221	HIS	2.3
1	a	1259	GLY	2.3
2	j	1294	PRO	2.3
2	j	1468	SER	2.3
3	K	405	ASN	2.3
4	D	255	ASN	2.3

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Mol	Chain	Res	Type	RSRZ
4	L	479	ASN	2.3
6	F	530	CYS	2.3
6	N	225	PRO	2.3
6	n	1251	PHE	2.3
7	G	161	CYS	2.3
2	J	508	LEU	2.3
2	j	1354	LEU	2.3
5	M	507	ILE	2.3
6	f	1467	LEU	2.3
7	G	170	LEU	2.3
7	O	94	VAL	2.3
8	h	1305	VAL	2.3
6	F	147	ARG	2.3
1	A	354	TYR	2.3
7	g	1129	TYR	2.3
1	A	11	ASP	2.3
2	b	1423	ASP	2.3
4	d	1261	ASP	2.3
2	J	122	GLU	2.3
4	d	1148	GLU	2.3
5	m	1384	GLU	2.3
3	c	1057	LEU	2.3
4	L	17	PRO	2.3
4	l	1287	LEU	2.3
5	E	507	ILE	2.3
5	M	264	SER	2.3
6	f	1537	GLY	2.3
7	G	121	SER	2.3
7	g	1078	PRO	2.3
7	g	1431	ILE	2.3
7	o	1277	LEU	2.3
8	H	26	GLY	2.3
8	h	1148	GLY	2.3
8	p	1299	ILE	2.3
1	I	226	CYS	2.3
2	b	1029	VAL	2.3
5	M	404	VAL	2.3
7	O	264	VAL	2.3
7	O	478	TRP	2.3
8	P	273	MET	2.3
8	p	1330	ARG	2.3
8	P	170	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
8	p	1372	LYS	2.3
3	K	446	ALA	2.3
4	L	69	ALA	2.3
6	F	436	ALA	2.3
7	g	1290	ALA	2.3
7	o	1219	ALA	2.3
4	l	1240	GLN	2.3
7	G	455	GLU	2.3
7	O	65	ASP	2.3
1	I	545	ILE	2.3
3	C	396	LEU	2.3
4	l	1115	ILE	2.3
7	o	1224	PHE	2.3
7	o	1341	ILE	2.3
1	a	1210	GLY	2.3
5	E	64	SER	2.3
6	N	466	PRO	2.3
6	n	1462	SER	2.3
7	G	345	HIS	2.3
8	H	79	HIS	2.3
1	A	118	ASN	2.3
1	a	1030	VAL	2.3
4	L	255	ASN	2.3
6	N	248	ASN	2.3
7	g	1311	ASN	2.3
8	P	78	VAL	2.3
8	h	1204	VAL	2.3
1	A	12	THR	2.3
2	b	1335	CYS	2.3
2	B	22	ALA	2.3
2	j	1203	LEU	2.3
4	D	71	LEU	2.3
1	a	1554	GLU	2.3
2	B	473	ASP	2.3
2	J	87	GLU	2.3
2	b	1292	ASP	2.3
2	b	1416	ASP	2.3
4	D	428	GLU	2.3
5	E	383	GLN	2.3
6	f	1027	GLU	2.3
7	G	309	ASP	2.3
1	i	1199	PRO	2.3

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Mol	Chain	Res	Type	RSRZ
2	b	1041	GLY	2.3
8	h	1191	PRO	2.3
3	K	307	HIS	2.3
6	F	469	VAL	2.3
7	O	261	VAL	2.3
8	H	368	VAL	2.3
8	p	1370	VAL	2.3
1	I	499	ASN	2.3
1	a	1029	ASN	2.3
2	B	469	THR	2.3
3	k	1405	ASN	2.3
4	D	509	THR	2.3
5	E	358	THR	2.3
6	n	1188	ASN	2.3
7	G	238	ASN	2.3
8	H	19	ASN	2.3
7	O	166	MET	2.3
8	p	1243	LYS	2.3
8	p	1520	MET	2.3
4	D	510	LEU	2.3
5	M	323	CYS	2.3
4	D	75	ALA	2.3
4	l	1263	ILE	2.3
4	l	1259	GLN	2.3
5	E	111	GLN	2.3
6	n	1361	GLU	2.3
7	g	1211	GLU	2.3
1	a	1361	VAL	2.3
2	b	1403	GLY	2.3
2	j	1349	GLY	2.3
2	j	1352	PRO	2.3
5	M	368	ASP	2.3
8	p	1152	ASP	2.3
8	p	1205	ASP	2.3
2	B	179	ASN	2.3
3	k	1260	ASN	2.3
7	G	526	ASN	2.3
2	J	149	PHE	2.3
2	b	1231	ILE	2.3
3	k	1305	ALA	2.3
6	f	1436	ALA	2.3
7	G	32	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	226	CYS	2.3
7	G	368	CYS	2.3
8	H	42	CYS	2.3
1	A	550	GLU	2.3
3	k	1358	GLU	2.3
6	F	243	GLU	2.3
7	G	93	GLU	2.3
7	g	1230	GLU	2.3
8	P	149	GLU	2.3
2	B	91	GLY	2.3
2	J	272	LYS	2.3
4	L	501	VAL	2.3
5	e	1149	GLY	2.3
5	m	1255	PRO	2.3
6	F	233	VAL	2.3
7	o	1137	VAL	2.3
8	h	1372	LYS	2.3
3	C	531	ARG	2.3
3	k	1171	MET	2.3
5	m	1328	ASP	2.3
6	n	1307	ASP	2.3
7	o	1146	ASP	2.3
8	H	242	ASP	2.3
8	h	1025	ASP	2.3
1	i	1068	THR	2.2
6	f	1064	THR	2.2
8	h	1485	THR	2.2
4	d	1103	LEU	2.2
3	c	1500	TRP	2.2
5	m	1276	PHE	2.2
7	g	1492	PHE	2.2
8	H	202	PHE	2.2
3	K	43	ALA	2.2
3	K	305	ALA	2.2
3	k	1178	ALA	2.2
4	l	1301	ALA	2.2
8	H	346	ALA	2.2
5	E	466	GLN	2.2
7	o	1129	TYR	2.2
2	j	1470	SER	2.2
4	L	512	SER	2.2
6	n	1157	SER	2.2

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Mol	Chain	Res	Type	RSRZ
6	n	1111	GLU	2.2
7	g	1111	GLU	2.2
3	K	53	GLY	2.2
6	F	463	GLY	2.2
8	P	324	PRO	2.2
8	P	370	VAL	2.2
1	I	446	LEU	2.2
2	J	292	ASP	2.2
4	l	1388	ASP	2.2
6	F	91	THR	2.2
6	f	1170	LEU	2.2
7	G	193	ASP	2.2
8	p	1354	LEU	2.2
2	j	1142	ASN	2.2
4	L	72	HIS	2.2
6	F	217	HIS	2.2
7	O	263	HIS	2.2
3	C	64	ILE	2.2
3	C	452	ILE	2.2
3	C	167	TRP	2.2
3	k	1500	TRP	2.2
2	j	1480	ALA	2.2
3	c	1265	LYS	2.2
3	K	366	SER	2.2
4	D	131	SER	2.2
4	D	257	TYR	2.2
4	d	1198	LYS	2.2
5	M	111	GLN	2.2
5	m	1314	LYS	2.2
4	D	346	SER	2.2
4	D	426	SER	2.2
4	D	462	SER	2.2
5	M	398	SER	2.2
5	e	1508	SER	2.2
1	A	194	GLY	2.2
1	a	1184	LEU	2.2
2	j	1247	GLY	2.2
3	c	1056	VAL	2.2
4	l	1297	VAL	2.2
6	n	1135	GLU	2.2
7	O	93	GLU	2.2
7	g	1159	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
7	o	1075	VAL	2.2
8	P	486	GLU	2.2
8	h	1365	GLY	2.2
8	p	1408	VAL	2.2
1	i	1246	CYS	2.2
4	D	425	LEU	2.2
8	H	110	LEU	2.2
8	P	42	CYS	2.2
8	p	1049	CYS	2.2
2	b	1005	ILE	2.2
2	b	1451	ASP	2.2
4	D	162	ILE	2.2
4	L	263	ILE	2.2
4	l	1146	ASP	2.2
6	n	1173	ILE	2.2
6	N	136	PHE	2.2
8	H	155	ASP	2.2
8	H	493	ASP	2.2
7	o	1345	HIS	2.2
5	m	1261	LYS	2.2
6	F	536	ALA	2.2
1	A	261	GLN	2.2
1	I	497	TYR	2.2
3	C	364	TYR	2.2
3	K	359	MET	2.2
6	F	254	SER	2.2
1	i	1185	LEU	2.2
2	B	190	LEU	2.2
3	K	331	VAL	2.2
4	L	258	ARG	2.2
1	I	277	GLU	2.2
5	M	230	VAL	2.2
3	k	1312	GLY	2.2
5	m	1281	PRO	2.2
7	O	42	PRO	2.2
7	o	1367	GLY	2.2
8	H	191	PRO	2.2
1	I	12	THR	2.2
2	b	1478	THR	2.2
2	j	1231	ILE	2.2
3	K	25	ILE	2.2
3	K	293	THR	2.2

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Mol	Chain	Res	Type	RSRZ
5	M	380	ILE	2.2
7	g	1449	ILE	2.2
5	M	179	PHE	2.2
7	g	1182	CYS	2.2
3	C	405	ASN	2.2
4	l	1251	ASN	2.2
6	F	307	ASP	2.2
6	n	1036	ASN	2.2
8	H	203	ASN	2.2
2	j	1251	LYS	2.2
8	H	275	ASP	2.2
4	D	281	ALA	2.2
4	d	1429	ALA	2.2
1	I	381	SER	2.2
3	K	258	GLN	2.2
8	P	226	MET	2.2
1	i	1013	LEU	2.2
2	J	199	LEU	2.2
3	K	304	LEU	2.2
3	K	467	LEU	2.2
4	L	155	SER	2.2
4	d	1159	SER	2.2
4	D	270	TYR	2.2
8	p	1201	TYR	2.2
5	m	1267	VAL	2.2
6	n	1162	VAL	2.2
2	b	1198	ILE	2.2
2	j	1039	PRO	2.2
6	F	413	PRO	2.2
6	N	443	GLY	2.2
6	f	1218	GLY	2.2
7	O	381	GLY	2.2
2	j	1422	ILE	2.2
3	c	1120	ILE	2.2
3	k	1296	ILE	2.2
4	L	518	ILE	2.2
8	H	207	ILE	2.2
1	i	1310	PHE	2.2
6	f	1092	THR	2.2
7	O	372	LYS	2.2
8	P	153	LYS	2.2
4	d	1255	ASN	2.2

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Mol	Chain	Res	Type	RSRZ
4	l	1298	ASN	2.2
5	M	359	ASN	2.2
2	b	1043	ASP	2.2
3	C	393	ASP	2.2
3	c	1303	ASP	2.2
3	c	1525	ASP	2.2
4	D	206	ASP	2.2
5	m	1514	CYS	2.2
6	F	465	ASP	2.2
1	a	1013	LEU	2.2
1	i	1485	GLN	2.2
2	b	1438	ARG	2.2
2	j	1453	SER	2.2
3	K	339	ARG	2.2
4	D	358	SER	2.2
4	d	1346	SER	2.2
5	E	411	SER	2.2
5	m	1426	SER	2.2
7	G	231	GLN	2.2
7	G	393	LEU	2.2
4	D	79	VAL	2.2
5	E	292	VAL	2.2
8	H	323	VAL	2.2
5	E	510	ILE	2.2
2	j	1331	GLU	2.2
3	K	480	PHE	2.2
4	D	418	GLU	2.2
4	l	1373	PRO	2.2
6	f	1300	GLY	2.2
1	A	275	LYS	2.2
2	j	1272	LYS	2.2
5	m	1305	LYS	2.2
1	i	1029	ASN	2.2
2	J	475	ASN	2.2
2	j	1189	ASN	2.2
3	k	1479	ASN	2.2
2	j	1032	LEU	2.2
4	D	271	LEU	2.2
4	d	1075	ALA	2.1
7	g	1350	ALA	2.1
8	h	1308	LEU	2.2
1	i	1481	HIS	2.1

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Mol	Chain	Res	Type	RSRZ
4	l	1045	ASP	2.1
5	e	1545	CYS	2.1
5	m	1112	ASP	2.1
6	N	479	ASP	2.1
1	a	1296	VAL	2.1
3	K	340	VAL	2.1
3	k	1301	VAL	2.1
4	l	1214	VAL	2.1
6	F	488	TYR	2.1
6	N	386	TYR	2.1
7	G	75	VAL	2.1
8	P	512	ILE	2.1
8	p	1035	ILE	2.1
7	g	1495	PHE	2.1
2	b	1324	GLU	2.1
2	b	1425	LYS	2.1
7	o	1110	LYS	2.1
8	H	280	GLU	2.1
2	J	400	THR	2.1
3	K	94	THR	2.1
6	F	540	THR	2.1
2	B	391	LEU	2.1
2	j	1199	LEU	2.1
3	C	421	MET	2.1
4	L	158	LEU	2.1
8	p	1266	LEU	2.1
1	A	257	ALA	2.1
1	i	1186	ALA	2.1
2	b	1465	ASN	2.1
2	j	1215	ALA	2.1
4	l	1174	ALA	2.1
6	N	22	ASN	2.1
3	K	330	ARG	2.1
7	o	1519	SER	2.1
1	I	555	ASP	2.1
1	i	1262	ILE	2.1
2	b	1245	ILE	2.1
4	D	336	ILE	2.1
4	L	312	VAL	2.1
4	L	336	ILE	2.1
4	L	399	CYS	2.1
4	l	1501	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
5	E	60	ILE	2.1
6	n	1163	ASP	2.1
7	g	1176	ASP	2.1
6	F	367	VAL	2.1
8	p	1405	VAL	2.1
2	J	464	TYR	2.1
5	m	1179	PHE	2.1
5	E	326	GLY	2.1
6	F	360	GLY	2.1
5	E	114	GLU	2.1
6	N	362	GLU	2.1
8	p	1507	GLU	2.1
3	C	16	THR	2.1
1	A	341	MET	2.1
2	b	1232	LEU	2.1
7	o	1302	LEU	2.1
8	h	1329	LEU	2.1
1	I	437	ALA	2.1
3	C	370	ASN	2.1
4	D	491	ASN	2.1
6	N	237	ASN	2.1
6	f	1116	ARG	2.1
8	P	203	ASN	2.1
2	j	1128	SER	2.1
2	j	1198	ILE	2.1
8	H	16	GLN	2.1
1	a	1131	VAL	2.1
1	i	1011	ASP	2.1
3	k	1184	LYS	2.1
4	D	395	HIS	2.1
6	N	367	VAL	2.1
6	f	1478	ASP	2.1
5	E	325	TRP	2.1
3	C	313	GLY	2.1
3	K	377	CYS	2.1
3	k	1248	CYS	2.1
3	k	2056	GLY	2.1
1	I	556	PRO	2.1
4	D	139	CYS	2.1
8	P	468	GLY	2.1
1	A	251	LEU	2.1
7	g	1360	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
7	o	1507	LEU	2.1
6	N	431	MET	2.1
2	b	1448	ALA	2.1
2	J	470	SER	2.1
5	M	411	SER	2.1
6	F	296	ILE	2.1
2	J	194	GLN	2.1
5	M	337	GLN	2.1
8	H	15	LYS	2.1
1	A	281	VAL	2.1
6	N	32	VAL	2.1
8	P	530	VAL	2.1
3	K	231	HIS	2.1
4	d	1072	HIS	2.1
8	h	1079	HIS	2.1
3	C	33	ASP	2.1
5	E	131	ASP	2.1
5	E	265	ASP	2.1
5	e	1511	GLY	2.1
6	f	1488	TYR	2.1
6	n	1187	ASP	2.1
7	g	1190	ASP	2.1
3	C	312	GLY	2.1
6	F	172	PRO	2.1
7	o	1398	MET	2.1
1	i	1146	THR	2.1
2	j	1340	CYS	2.1
8	H	507	GLU	2.1
8	h	1357	THR	2.1
8	h	1427	GLU	2.1
3	k	1491	ILE	2.1
4	D	444	ALA	2.1
4	L	241	ILE	2.1
4	d	1482	ILE	2.1
5	m	1473	ALA	2.1
6	f	1520	ALA	2.1
7	g	1315	ALA	2.1
2	B	81	SER	2.1
7	O	509	SER	2.1
8	H	22	SER	2.1
1	I	445	GLN	2.1
3	C	258	GLN	2.1

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Mol	Chain	Res	Type	RSRZ
7	O	238	ASN	2.1
7	o	1231	GLN	2.1
8	p	1258	ASN	2.1
3	K	214	VAL	2.1
6	N	405	VAL	2.1
6	n	1340	VAL	2.1
8	H	490	VAL	2.1
3	c	1186	LEU	2.1
6	n	1189	LEU	2.1
3	C	44	MET	2.1
2	J	111	ASP	2.1
3	C	361	GLY	2.1
7	g	1267	TYR	2.1
5	M	117	ASP	2.1
5	M	319	ASP	2.1
8	P	511	ASP	2.1
3	C	332	THR	2.1
3	K	363	GLU	2.1
5	e	1382	GLU	2.1
7	O	455	GLU	2.1
1	a	1280	ILE	2.1
3	c	1254	LYS	2.1
4	D	278	ILE	2.1
5	E	555	ILE	2.1
6	f	1376	CYS	2.1
7	O	33	CYS	2.1
3	C	75	ALA	2.1
3	C	302	SER	2.1
7	O	371	ALA	2.1
2	J	246	PHE	2.1
3	C	306	GLN	2.1
5	E	179	PHE	2.1
7	G	229	PHE	2.1
3	k	1280	VAL	2.1
4	L	185	ASN	2.1
8	H	113	VAL	2.1
1	I	393	TYR	2.0
2	J	358	GLY	2.0
4	L	327	GLY	2.0
4	L	496	HIS	2.0
4	l	1235	GLY	2.0
5	e	1087	GLY	2.0

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Mol	Chain	Res	Type	RSRZ
8	h	1245	HIS	2.0
8	h	1498	GLY	2.0
2	b	1394	THR	2.0
4	L	396	ASP	2.0
5	M	325	TRP	2.0
5	M	388	THR	2.0
7	o	1193	ASP	2.0
4	D	319	GLU	2.0
4	l	1513	GLU	2.0
6	n	1445	GLU	2.0
6	F	462	SER	2.0
7	G	225	SER	2.0
8	H	248	ALA	2.0
8	P	11	ALA	2.0
8	h	1453	ALA	2.0
8	h	1526	PHE	2.0
1	A	269	GLN	2.0
1	a	1226	CYS	2.0
2	b	1003	VAL	2.0
2	b	1296	GLN	2.0
3	c	1294	LEU	2.0
5	e	1269	LEU	2.0
8	p	1313	LEU	2.0
3	K	504	VAL	2.0
3	c	1530	VAL	2.0
4	D	515	VAL	2.0
8	h	1474	VAL	2.0
6	n	1248	ASN	2.0
7	G	487	ASN	2.0
7	o	1508	ASN	2.0
2	B	322	GLY	2.0
3	K	166	HIS	2.0
2	B	198	ILE	2.0
2	B	236	THR	2.0
2	B	395	THR	2.0
3	c	1269	TRP	2.0
4	d	1340	THR	2.0
4	l	1241	ILE	2.0
5	M	261	LYS	2.0
5	e	1164	THR	2.0
5	e	1362	ILE	2.0
8	H	150	ILE	2.0

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Mol	Chain	Res	Type	RSRZ
1	I	444	GLU	2.0
5	m	1163	GLU	2.0
7	O	196	ASP	2.0
7	O	262	GLU	2.0
8	h	1205	ASP	2.0
3	C	365	PHE	2.0
1	i	1049	LEU	2.0
2	B	18	ALA	2.0
3	C	49	LEU	2.0
4	L	291	SER	2.0
5	E	170	ALA	2.0
5	m	1318	ALA	2.0
5	m	1366	PHE	2.0
6	f	1256	ALA	2.0
8	H	114	SER	2.0
8	H	406	ALA	2.0
8	p	1085	LEU	2.0
2	B	3	VAL	2.0
3	C	357	VAL	2.0
3	k	1340	VAL	2.0
4	d	1213	VAL	2.0
5	E	227	GLN	2.0
7	g	1264	VAL	2.0
8	p	1375	GLN	2.0
1	i	1341	MET	2.0
4	L	311	MET	2.0
8	P	336	CYS	2.0
2	B	404	GLY	2.0
4	d	1235	GLY	2.0
4	l	1202	GLY	2.0
8	p	1497	LYS	2.0
1	A	198	TYR	2.0
1	I	385	ILE	2.0
2	J	121	ILE	2.0
3	C	35	ILE	2.0
3	K	484	ILE	2.0
3	c	1437	ILE	2.0
4	L	270	TYR	2.0
4	l	1310	ILE	2.0
5	E	530	PRO	2.0
5	e	1075	ILE	2.0
8	h	1201	TYR	2.0

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Mol	Chain	Res	Type	RSRZ
2	B	328	THR	2.0
5	m	1387	THR	2.0
6	f	1091	THR	2.0
1	A	15	LEU	2.0
4	l	1266	GLU	2.0
5	E	351	LEU	2.0
6	f	1464	PHE	2.0
7	O	307	PHE	2.0
7	g	1178	PHE	2.0
8	H	160	LEU	2.0
8	P	307	GLU	2.0
8	h	1377	GLU	2.0
2	B	264	ALA	2.0
2	B	517	ALA	2.0
2	J	138	ALA	2.0
2	J	241	ASP	2.0
2	j	1452	SER	2.0
5	M	487	SER	2.0
6	N	2	SER	2.0
4	d	1254	VAL	2.0
5	e	1434	VAL	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
10	BEF	J	602	4/4	0.53	0.20	235,236,240,246	0
10	BEF	N	602	4/4	0.60	0.29	112,120,121,122	0

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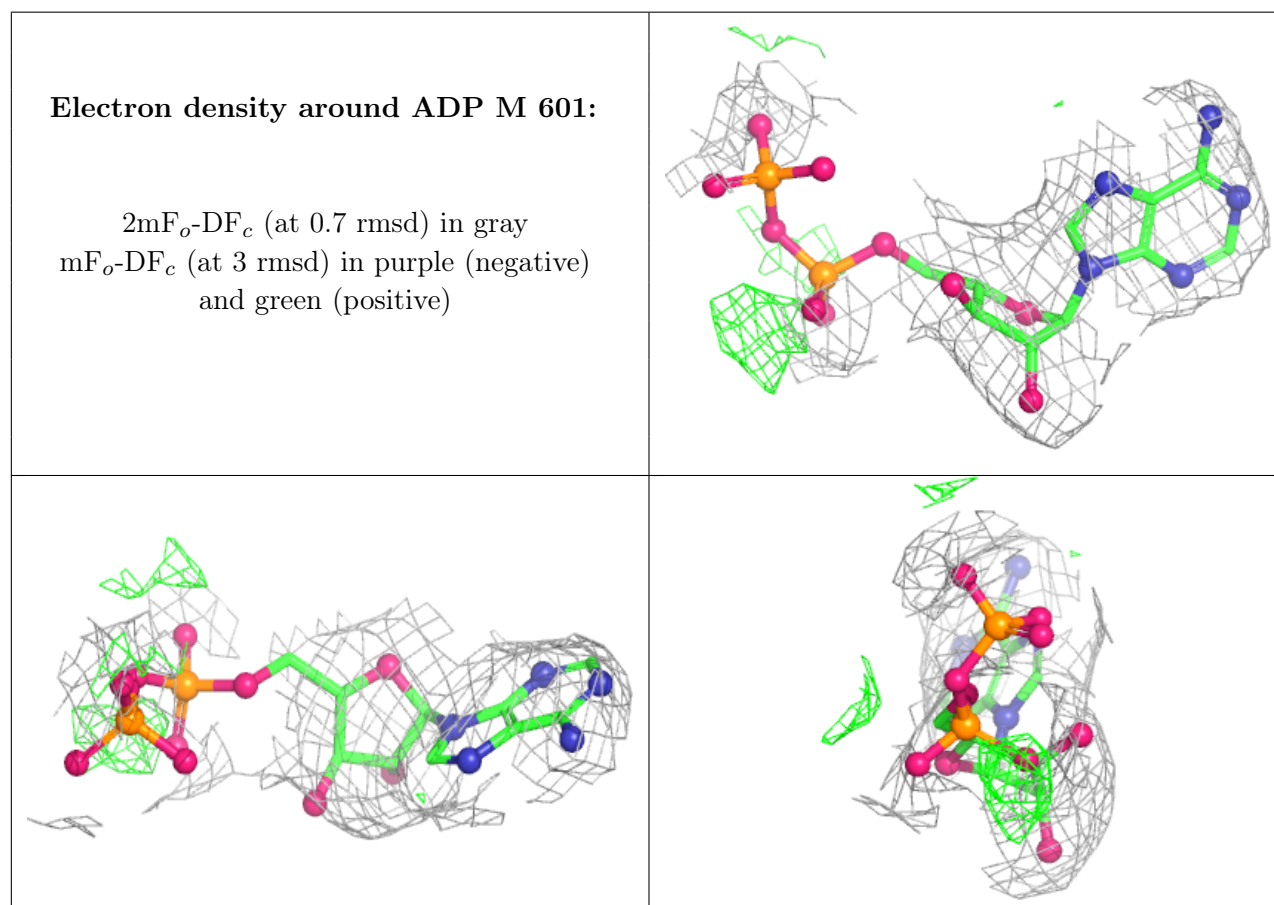
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
10	BEF	A	602	4/4	0.66	0.18	246,247,249,251	0
10	BEF	E	602	4/4	0.68	0.29	240,241,242,244	0
10	BEF	n	1602	4/4	0.68	0.42	163,167,167,173	0
10	BEF	f	1602	4/4	0.69	0.26	167,170,171,173	0
10	BEF	F	602	4/4	0.71	0.37	157,163,163,171	0
10	BEF	G	602	4/4	0.71	0.20	236,237,238,239	0
10	BEF	g	1602	4/4	0.75	0.20	162,165,165,166	0
11	SO4	K	1101	5/5	0.75	0.18	84,89,97,102	0
10	BEF	B	602	4/4	0.76	0.24	210,215,215,215	0
10	BEF	M	602	4/4	0.78	0.12	152,158,161,170	0
11	SO4	O	600	5/5	0.78	0.14	78,79,92,100	0
11	SO4	c	2101	5/5	0.78	0.18	82,98,107,111	0
11	SO4	d	1600	5/5	0.78	0.15	106,109,115,118	0
10	BEF	L	602	4/4	0.80	0.13	172,177,177,180	0
10	BEF	a	1602	4/4	0.81	0.17	235,239,240,241	0
11	SO4	j	1600	5/5	0.81	0.18	79,96,98,100	0
11	SO4	I	600	5/5	0.82	0.17	98,103,110,113	0
11	SO4	o	1600	5/5	0.82	0.17	107,107,115,117	0
9	ADP	M	601	27/27	0.83	0.12	43,113,256,333	0
11	SO4	i	1600	5/5	0.85	0.14	91,94,103,116	0
9	ADP	l	1601	27/27	0.85	0.13	62,105,189,226	0
10	BEF	m	1602	4/4	0.85	0.14	185,193,195,196	0
9	ADP	k	2101	27/27	0.86	0.12	80,131,164,321	0
10	BEF	P	602	4/4	0.86	0.11	158,158,158,162	0
9	ADP	L	601	27/27	0.86	0.13	102,157,212,241	0
10	BEF	b	1602	4/4	0.86	0.12	154,158,161,163	0
9	ADP	n	1601	27/27	0.87	0.17	27,94,337,491	0
9	ADP	f	1601	27/27	0.88	0.20	13,50,316,499	0
10	BEF	p	1602	4/4	0.88	0.10	84,99,102,108	0
10	BEF	e	1602	4/4	0.90	0.11	201,205,207,207	0
9	ADP	D	601	27/27	0.90	0.11	41,92,238,264	0
9	ADP	J	601	27/27	0.91	0.13	74,85,241,279	0
9	ADP	B	601	27/27	0.91	0.13	62,105,202,218	0
9	ADP	A	601	27/27	0.91	0.15	46,110,243,330	0
9	ADP	E	601	27/27	0.91	0.12	11,102,242,288	0
9	ADP	g	1601	27/27	0.91	0.13	26,159,211,215	0
10	BEF	C	1102	4/4	0.91	0.10	104,105,105,120	0
9	ADP	a	1601	27/27	0.92	0.12	50,112,239,328	0
9	ADP	e	1601	27/27	0.92	0.09	30,116,232,274	0
9	ADP	H	601	27/27	0.92	0.10	11,112,145,153	0
9	ADP	m	1601	27/27	0.92	0.11	13,87,195,273	0
9	ADP	F	601	27/27	0.93	0.19	11,105,323,481	0

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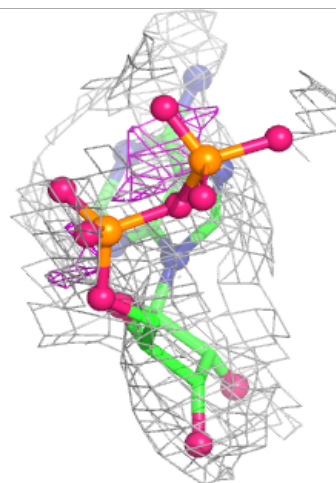
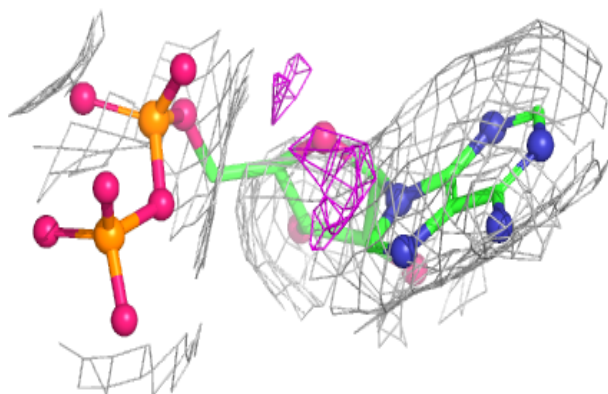
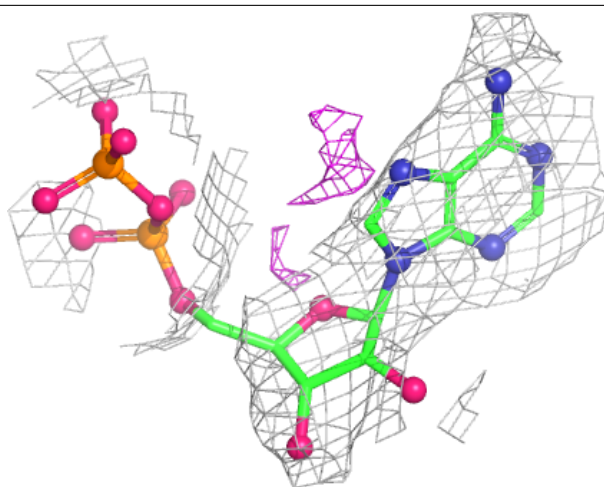
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
9	ADP	P	601	27/27	0.93	0.10	73,153,161,164	0
9	ADP	C	1101	27/27	0.93	0.14	38,135,163,237	0
9	ADP	h	1601	27/27	0.93	0.11	40,139,153,188	0
9	ADP	b	1601	27/27	0.93	0.11	44,69,220,243	0
9	ADP	N	601	27/27	0.94	0.13	11,88,232,484	0
9	ADP	G	601	27/27	0.94	0.12	12,133,240,248	0
9	ADP	p	1601	27/27	0.94	0.10	11,114,136,239	0
10	BEF	h	1602	4/4	0.96	0.07	85,93,93,106	0
10	BEF	H	602	4/4	0.96	0.04	101,103,104,110	0
10	BEF	l	1602	4/4	0.97	0.06	28,61,73,75	0
10	BEF	D	602	4/4	0.97	0.06	81,84,91,92	0
10	BEF	k	2102	4/4	0.97	0.05	68,69,80,82	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



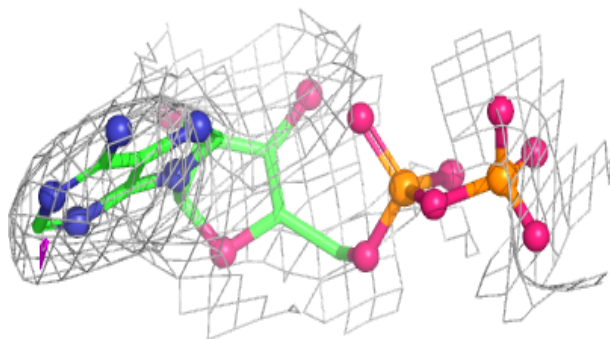
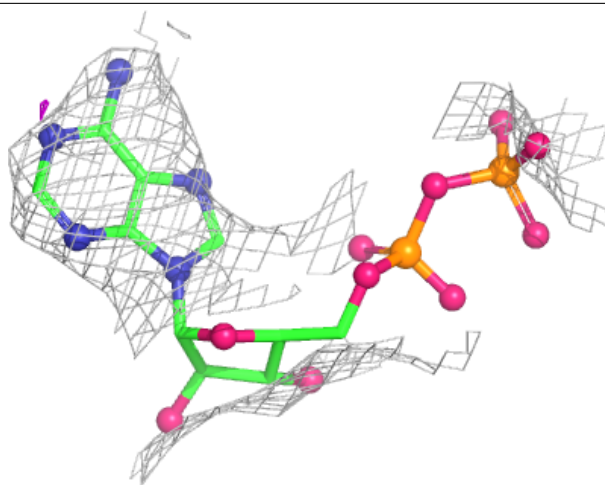
Electron density around ADP 1 1601:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



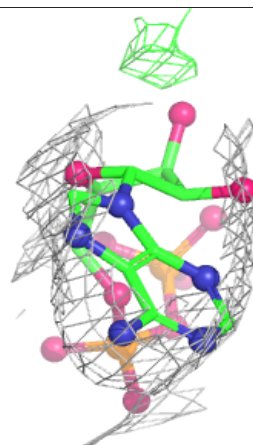
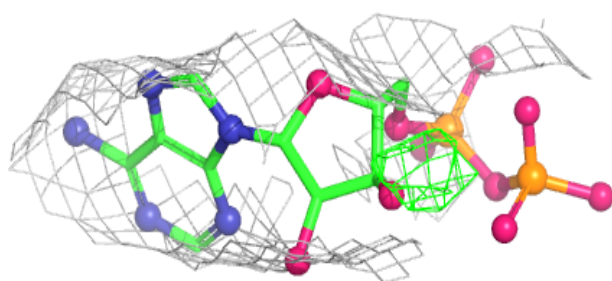
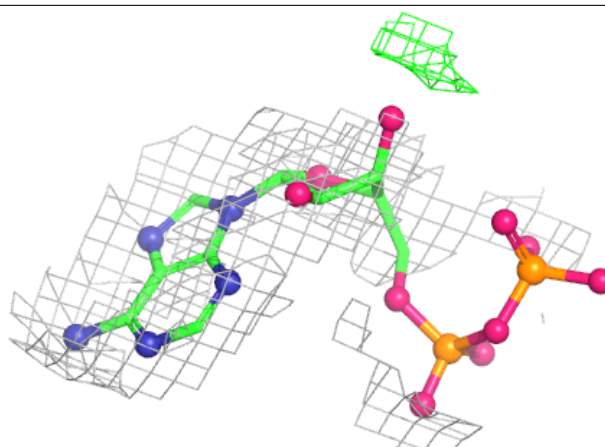
Electron density around ADP k 2101:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

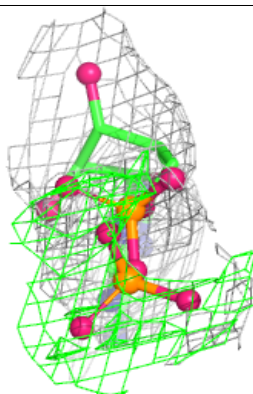
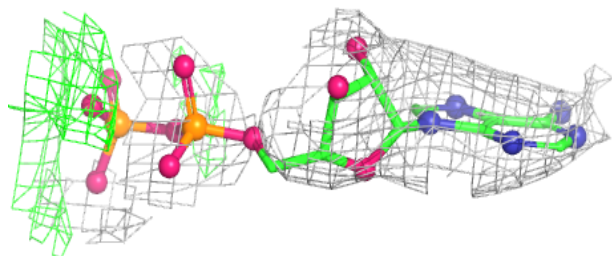
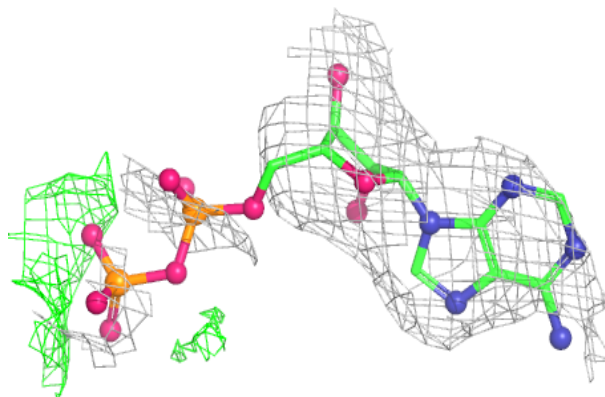


Electron density around ADP L 601:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

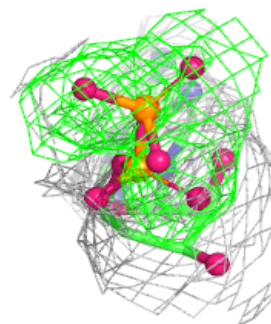
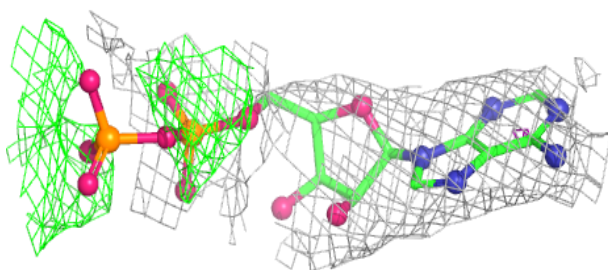
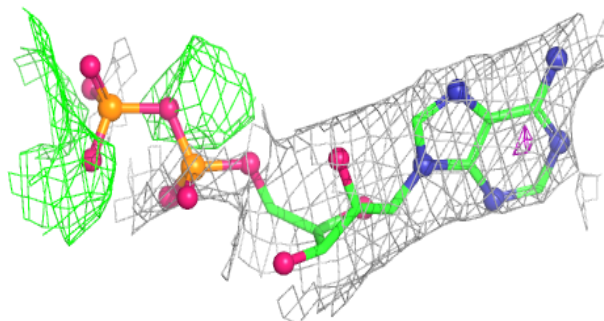
**Electron density around ADP n 1601:**

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

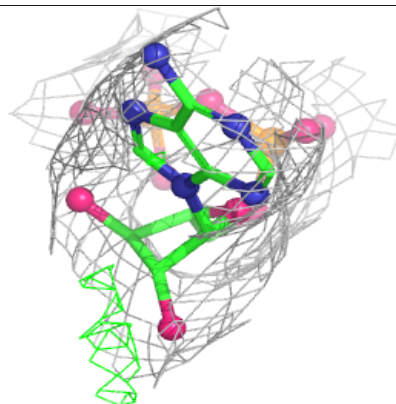
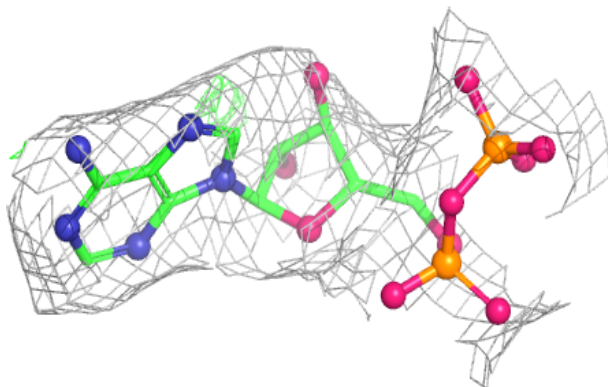
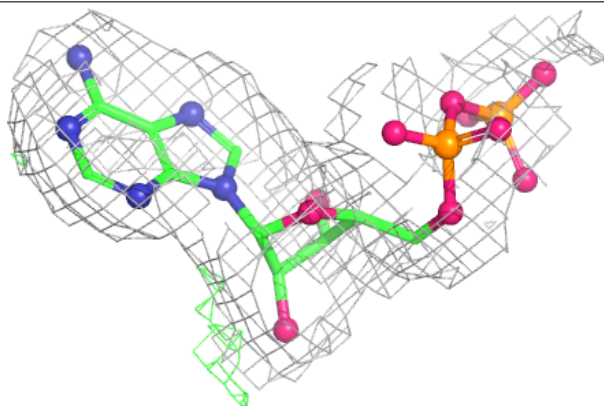


Electron density around ADP f 1601:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

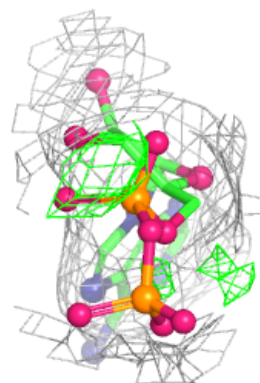
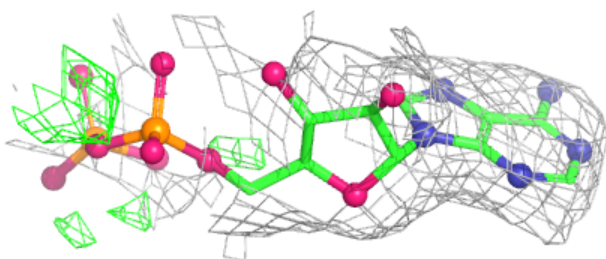
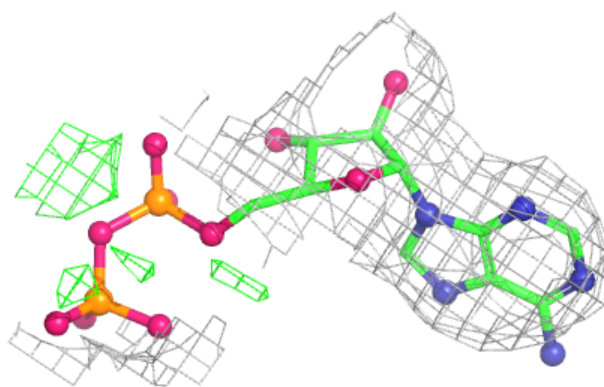
**Electron density around ADP D 601:**

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and green (positive)

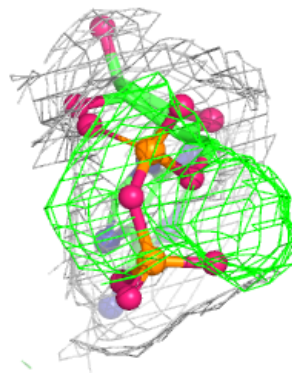
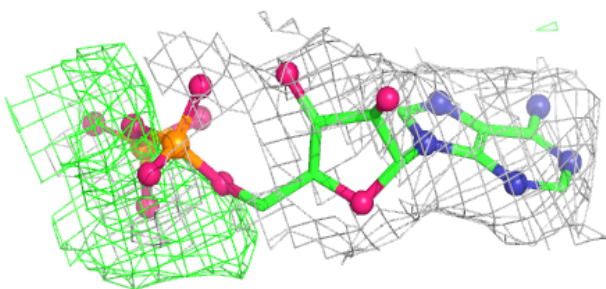
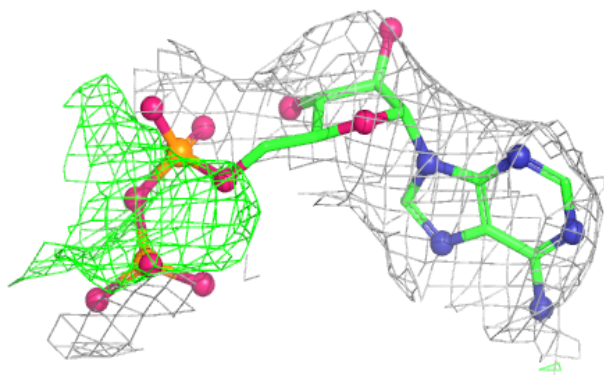


Electron density around ADP J 601:

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and green (positive)

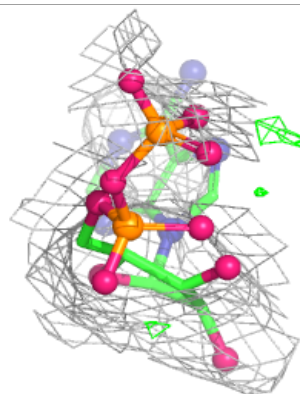
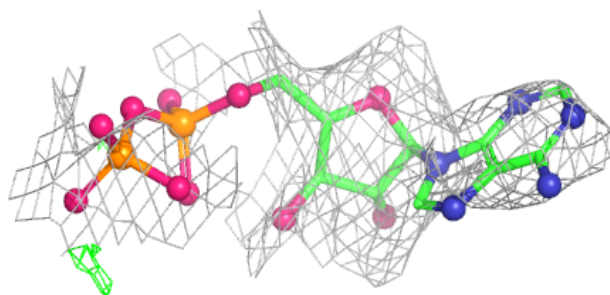
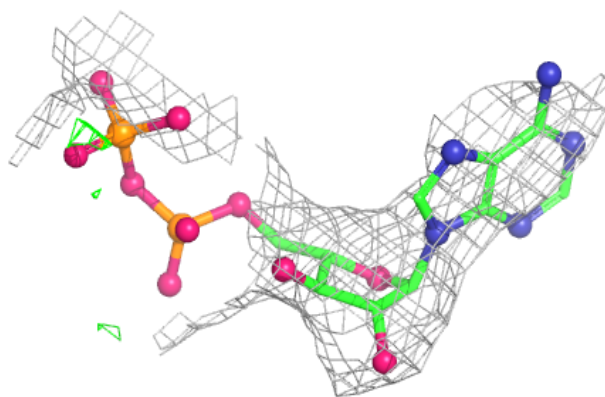
**Electron density around ADP B 601:**

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

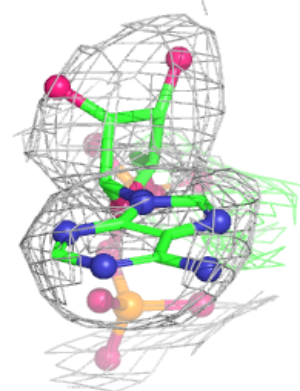
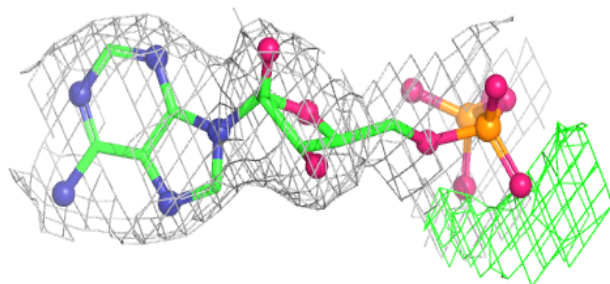
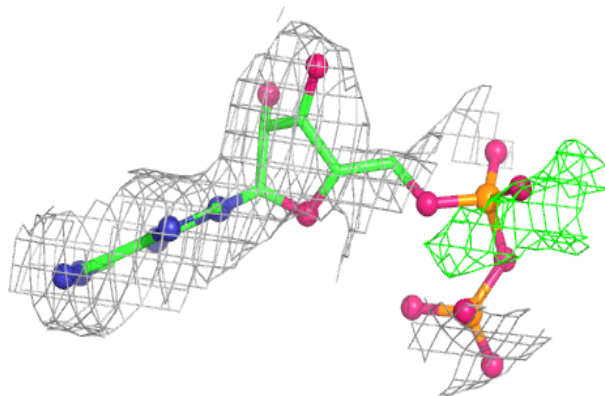


Electron density around ADP A 601:

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and green (positive)

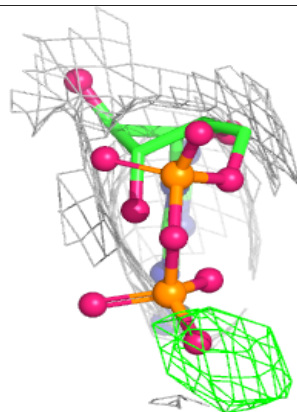
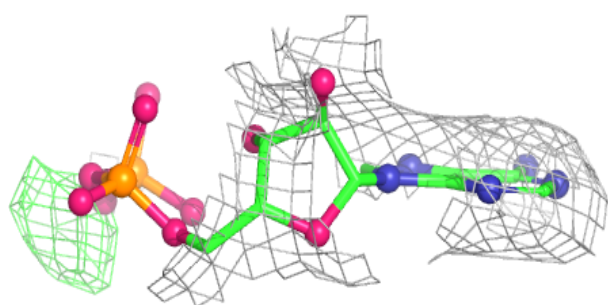
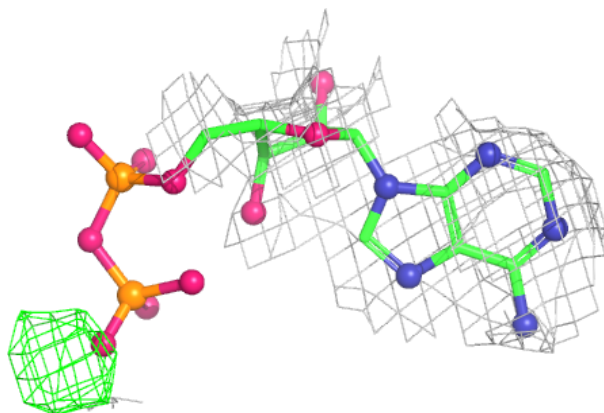
**Electron density around ADP E 601:**

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and green (positive)

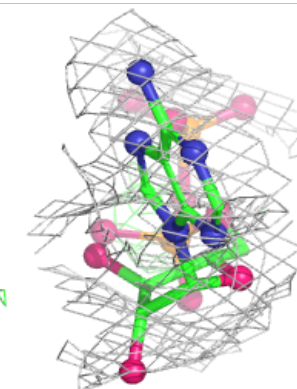
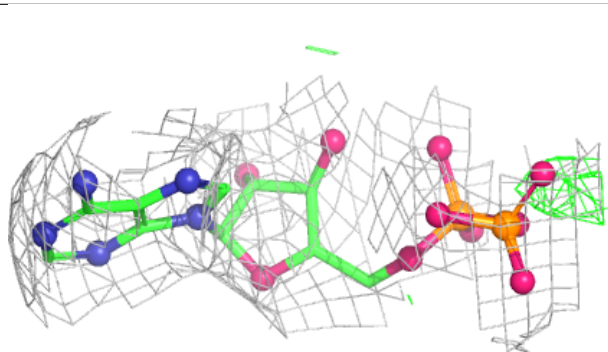
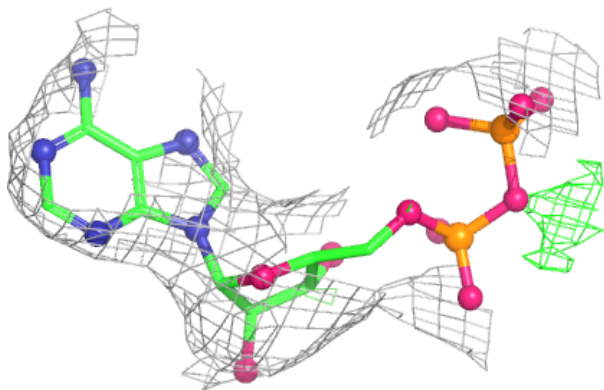


Electron density around ADP g 1601:

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and green (positive)

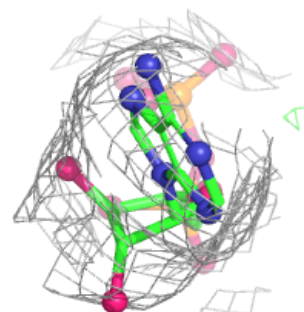
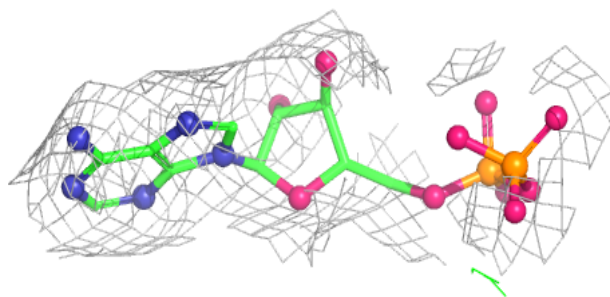
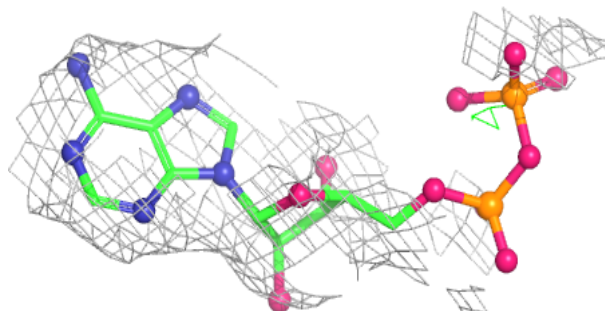
**Electron density around ADP a 1601:**

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and green (positive)

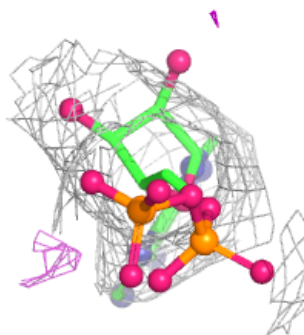
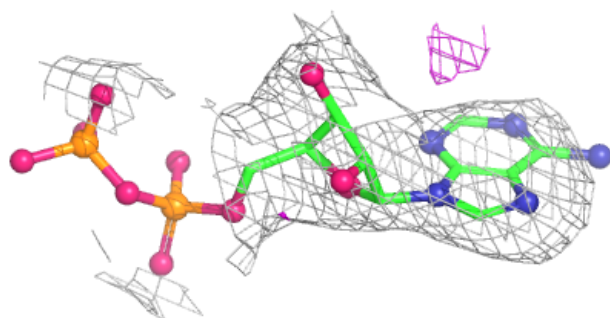
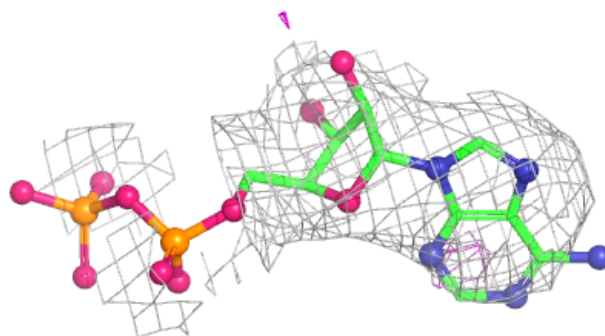


Electron density around ADP e 1601:

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 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)

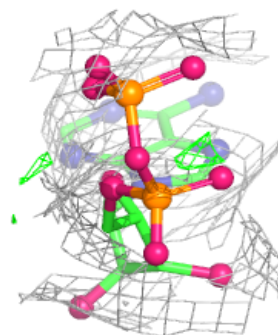
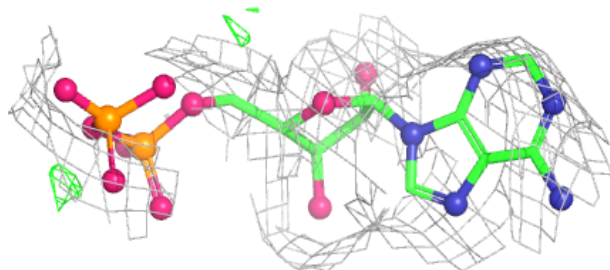
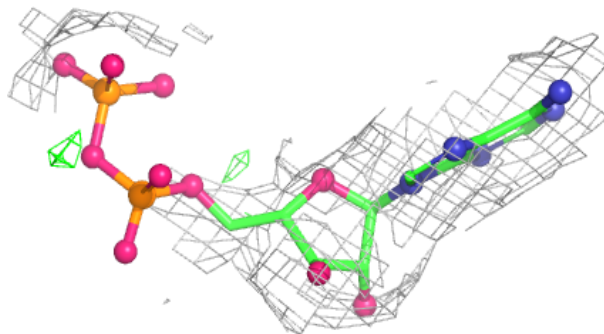
**Electron density around ADP H 601:**

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 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)

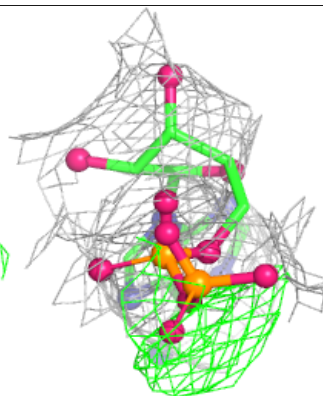
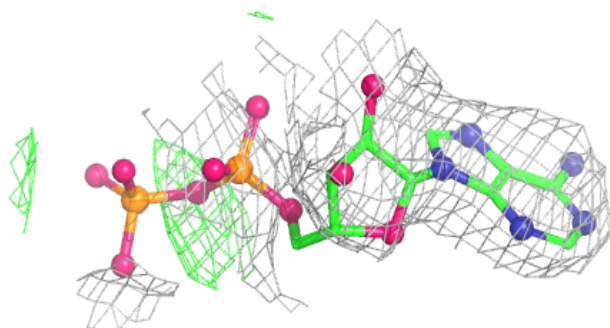
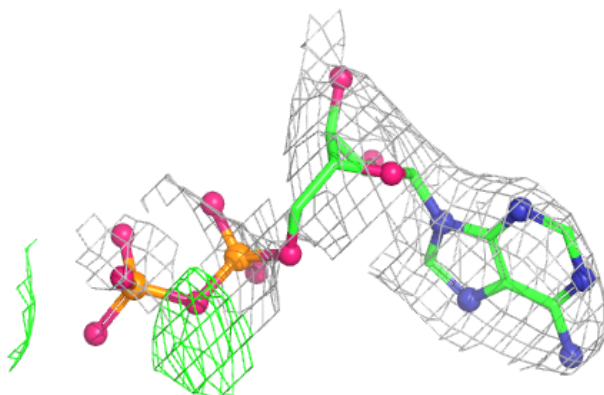


Electron density around ADP m 1601:

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and green (positive)

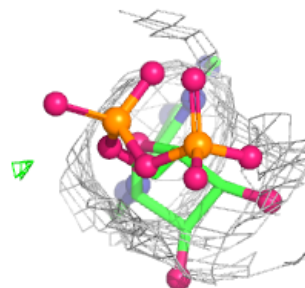
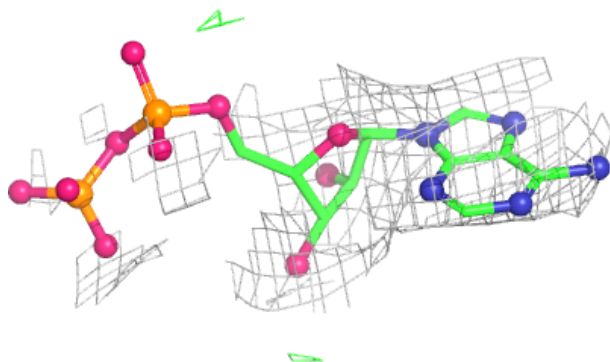
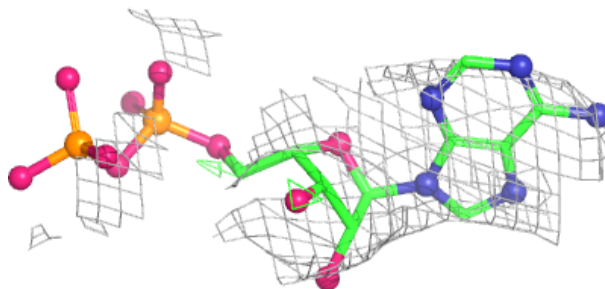
**Electron density around ADP F 601:**

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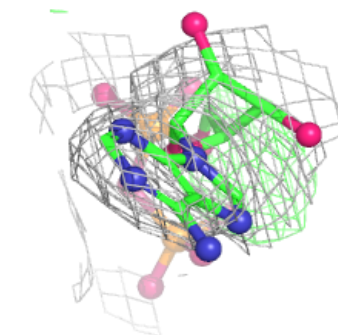
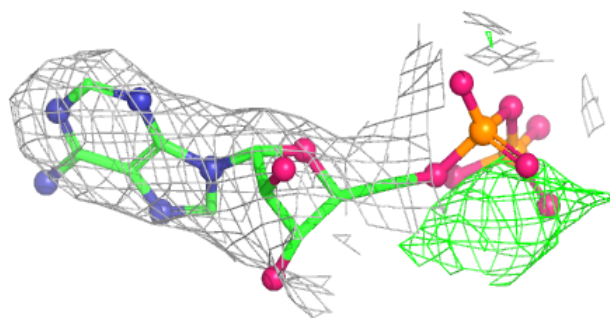
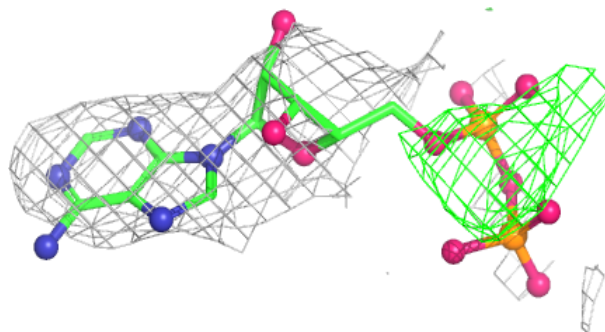


Electron density around ADP P 601:

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and green (positive)

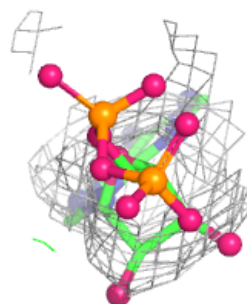
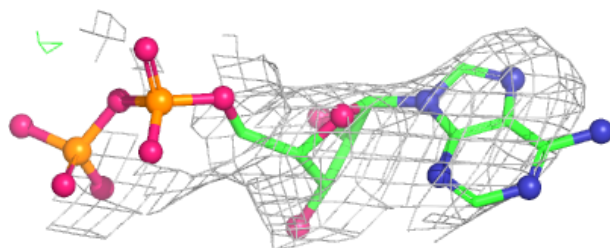
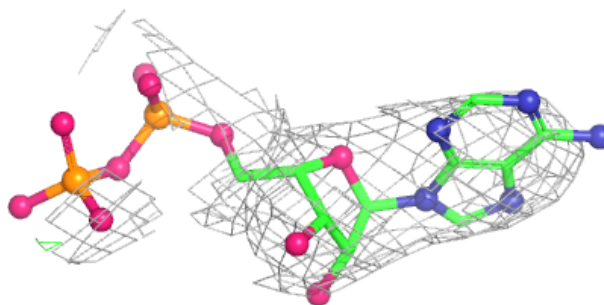
**Electron density around ADP C 1101:**

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and green (positive)

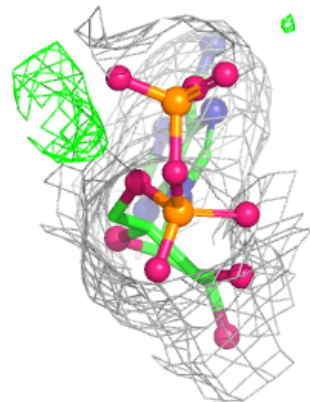
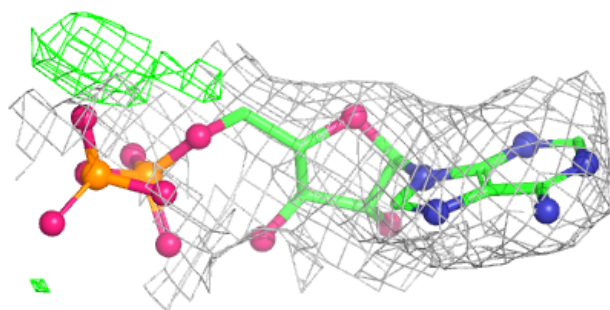
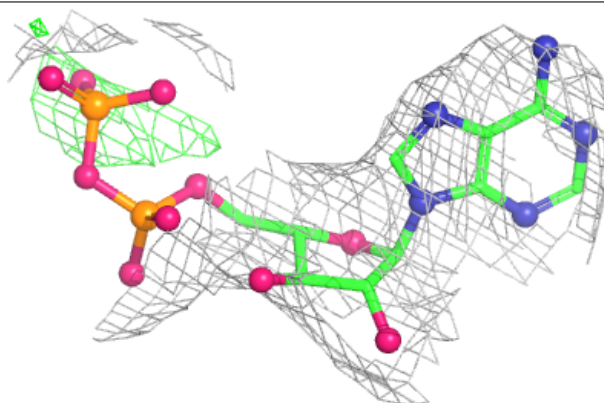


Electron density around ADP h 1601:

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and green (positive)

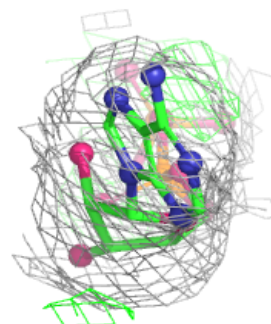
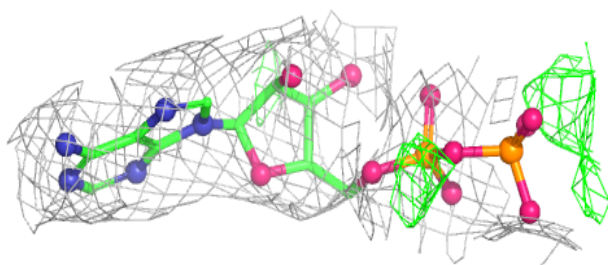
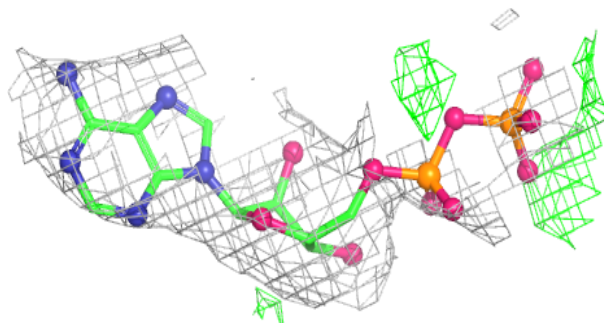
**Electron density around ADP b 1601:**

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and green (positive)



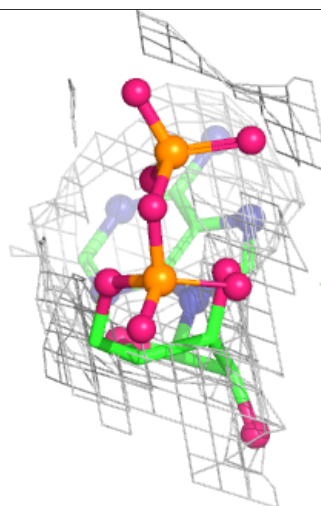
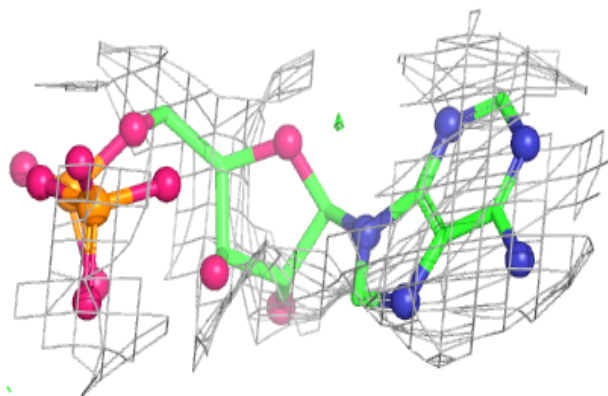
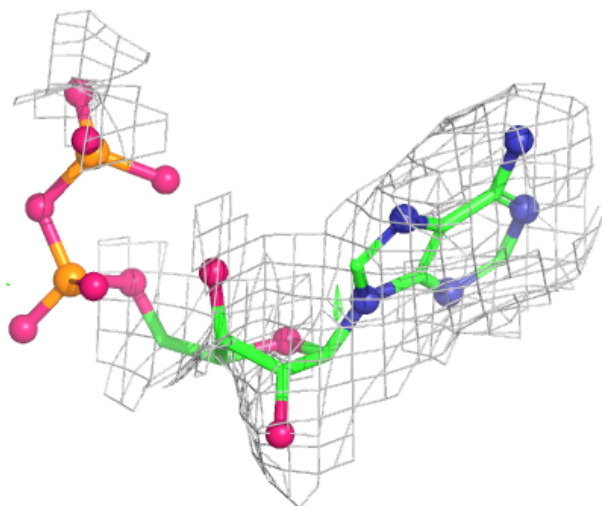
Electron density around ADP N 601:

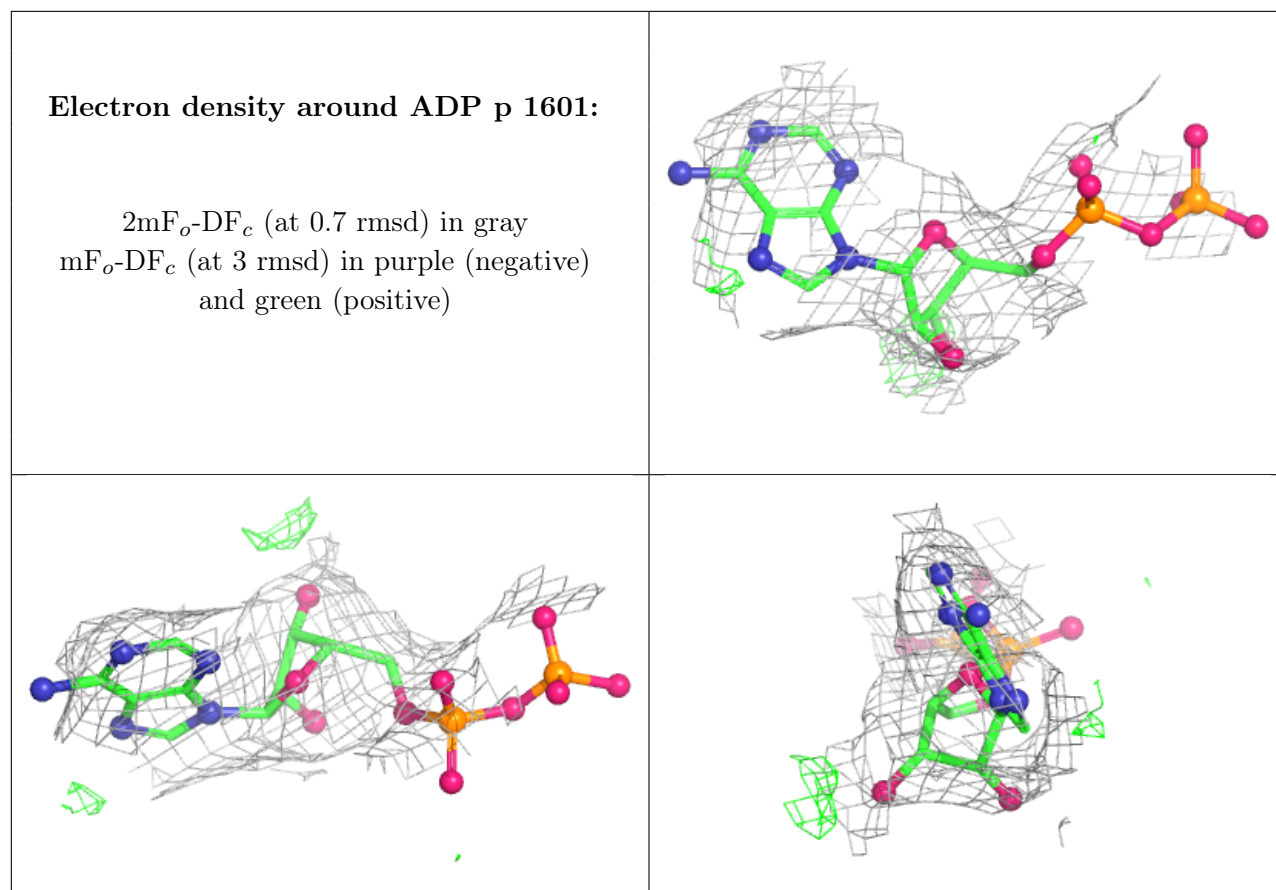
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
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and green (positive)



Electron density around ADP G 601:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





6.5 Other polymers ⓘ

There are no such residues in this entry.