



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 10:30 PM UTC

PDB ID : 3H4P / pdb_00003h4p
Title : Proteasome 20S core particle from Methanocaldococcus jannaschii
Authors : Jeffrey, P.D.; Zhang, F.; Hu, M.; Tian, G.; Zhang, P.; Finley, D.; Shi, Y.
Deposited on : 2009-04-20
Resolution : 4.10 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
Xtriage (Phenix)	:	2.0
EDS	:	3.0
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

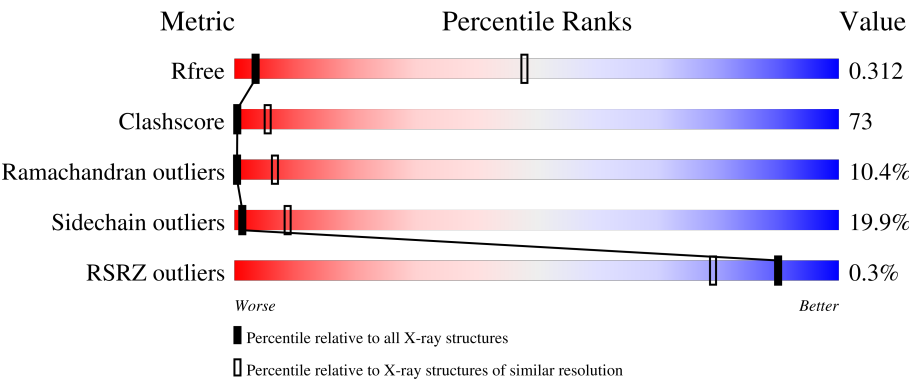
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.10 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.



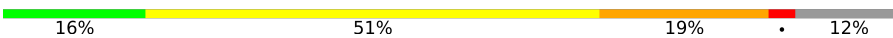
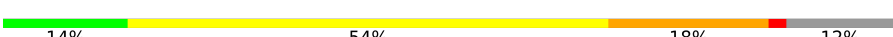
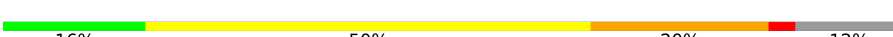
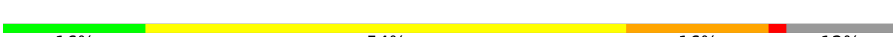
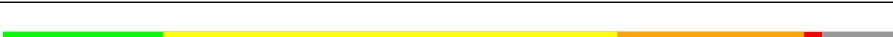
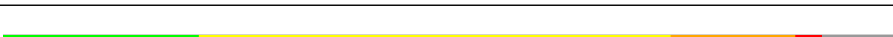
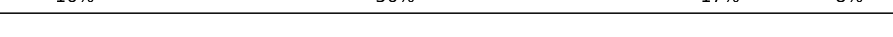
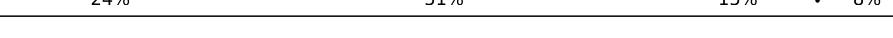
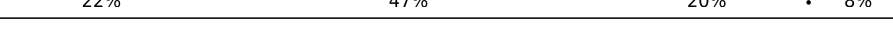
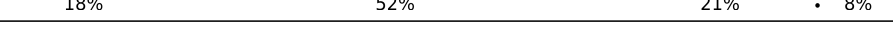
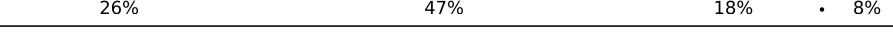
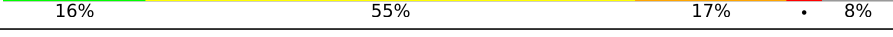
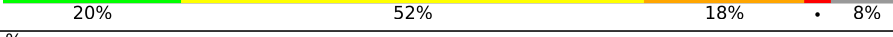
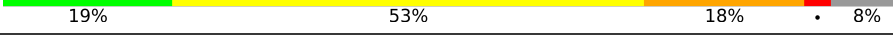
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1243 (4.40-3.80)
Clashscore	190562	1293 (4.40-3.80)
Ramachandran outliers	187476	1206 (4.40-3.80)
Sidechain outliers	187428	1193 (4.40-3.80)
RSRZ outliers	180081	1240 (4.40-3.80)

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	264	17%51%19%•12%
1	B	264	17%52%17%•12%
1	C	264	16%54%16%•12%
1	D	264	13%54%19%•12%
1	E	264	12%57%17%•12%

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Mol	Chain	Length	Quality of chain
1	F	264	
1	G	264	
1	H	264	
1	I	264	
1	J	264	
1	K	264	
1	L	264	
1	M	264	
1	N	264	
2	a	219	
2	b	219	
2	c	219	
2	d	219	
2	e	219	
2	f	219	
2	g	219	
2	h	219	
2	i	219	
2	j	219	
2	k	219	
2	l	219	
2	m	219	
2	n	219	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 46648 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 Proteasome subunit alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	232	Total	C	N	O	S	0	0	0
			1813	1150	312	346	5			
1	B	232	Total	C	N	O	S	0	0	0
			1813	1150	312	346	5			
1	C	232	Total	C	N	O	S	0	0	0
			1813	1150	312	346	5			
1	D	232	Total	C	N	O	S	0	0	0
			1813	1150	312	346	5			
1	E	232	Total	C	N	O	S	0	0	0
			1813	1150	312	346	5			
1	F	232	Total	C	N	O	S	0	0	0
			1813	1150	312	346	5			
1	G	232	Total	C	N	O	S	0	0	0
			1813	1150	312	346	5			
1	H	232	Total	C	N	O	S	0	0	0
			1813	1150	312	346	5			
1	I	232	Total	C	N	O	S	0	0	0
			1813	1150	312	346	5			
1	J	232	Total	C	N	O	S	0	0	0
			1813	1150	312	346	5			
1	K	232	Total	C	N	O	S	0	0	0
			1813	1150	312	346	5			
1	L	232	Total	C	N	O	S	0	0	0
			1813	1150	312	346	5			
1	M	232	Total	C	N	O	S	0	0	0
			1813	1150	312	346	5			
1	N	232	Total	C	N	O	S	0	0	0
			1813	1150	312	346	5			

There are 42 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP Q60177

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Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	SER	-	expression tag	UNP Q60177
A	0	HIS	-	expression tag	UNP Q60177
B	-2	GLY	-	expression tag	UNP Q60177
B	-1	SER	-	expression tag	UNP Q60177
B	0	HIS	-	expression tag	UNP Q60177
C	-2	GLY	-	expression tag	UNP Q60177
C	-1	SER	-	expression tag	UNP Q60177
C	0	HIS	-	expression tag	UNP Q60177
D	-2	GLY	-	expression tag	UNP Q60177
D	-1	SER	-	expression tag	UNP Q60177
D	0	HIS	-	expression tag	UNP Q60177
E	-2	GLY	-	expression tag	UNP Q60177
E	-1	SER	-	expression tag	UNP Q60177
E	0	HIS	-	expression tag	UNP Q60177
F	-2	GLY	-	expression tag	UNP Q60177
F	-1	SER	-	expression tag	UNP Q60177
F	0	HIS	-	expression tag	UNP Q60177
G	-2	GLY	-	expression tag	UNP Q60177
G	-1	SER	-	expression tag	UNP Q60177
G	0	HIS	-	expression tag	UNP Q60177
H	-2	GLY	-	expression tag	UNP Q60177
H	-1	SER	-	expression tag	UNP Q60177
H	0	HIS	-	expression tag	UNP Q60177
I	-2	GLY	-	expression tag	UNP Q60177
I	-1	SER	-	expression tag	UNP Q60177
I	0	HIS	-	expression tag	UNP Q60177
J	-2	GLY	-	expression tag	UNP Q60177
J	-1	SER	-	expression tag	UNP Q60177
J	0	HIS	-	expression tag	UNP Q60177
K	-2	GLY	-	expression tag	UNP Q60177
K	-1	SER	-	expression tag	UNP Q60177
K	0	HIS	-	expression tag	UNP Q60177
L	-2	GLY	-	expression tag	UNP Q60177
L	-1	SER	-	expression tag	UNP Q60177
L	0	HIS	-	expression tag	UNP Q60177
M	-2	GLY	-	expression tag	UNP Q60177
M	-1	SER	-	expression tag	UNP Q60177
M	0	HIS	-	expression tag	UNP Q60177
N	-2	GLY	-	expression tag	UNP Q60177
N	-1	SER	-	expression tag	UNP Q60177
N	0	HIS	-	expression tag	UNP Q60177

- Molecule 2 is a protein called Proteasome subunit beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	a	202	Total	C	N	O	S	0	0	0
			1519	964	248	298	9			
2	b	202	Total	C	N	O	S	0	0	0
			1519	964	248	298	9			
2	c	202	Total	C	N	O	S	0	0	0
			1519	964	248	298	9			
2	d	202	Total	C	N	O	S	0	0	0
			1519	964	248	298	9			
2	e	202	Total	C	N	O	S	0	0	0
			1519	964	248	298	9			
2	f	202	Total	C	N	O	S	0	0	0
			1519	964	248	298	9			
2	g	202	Total	C	N	O	S	0	0	0
			1519	964	248	298	9			
2	h	202	Total	C	N	O	S	0	0	0
			1519	964	248	298	9			
2	i	202	Total	C	N	O	S	0	0	0
			1519	964	248	298	9			
2	j	202	Total	C	N	O	S	0	0	0
			1519	964	248	298	9			
2	k	202	Total	C	N	O	S	0	0	0
			1519	964	248	298	9			
2	l	202	Total	C	N	O	S	0	0	0
			1519	964	248	298	9			
2	m	202	Total	C	N	O	S	0	0	0
			1519	964	248	298	9			
2	n	202	Total	C	N	O	S	0	0	0
			1519	964	248	298	9			

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
a	6	MET	-	expression tag	UNP Q58634
b	6	MET	-	expression tag	UNP Q58634
c	6	MET	-	expression tag	UNP Q58634
d	6	MET	-	expression tag	UNP Q58634
e	6	MET	-	expression tag	UNP Q58634
f	6	MET	-	expression tag	UNP Q58634
g	6	MET	-	expression tag	UNP Q58634
h	6	MET	-	expression tag	UNP Q58634
i	6	MET	-	expression tag	UNP Q58634
j	6	MET	-	expression tag	UNP Q58634
k	6	MET	-	expression tag	UNP Q58634
l	6	MET	-	expression tag	UNP Q58634

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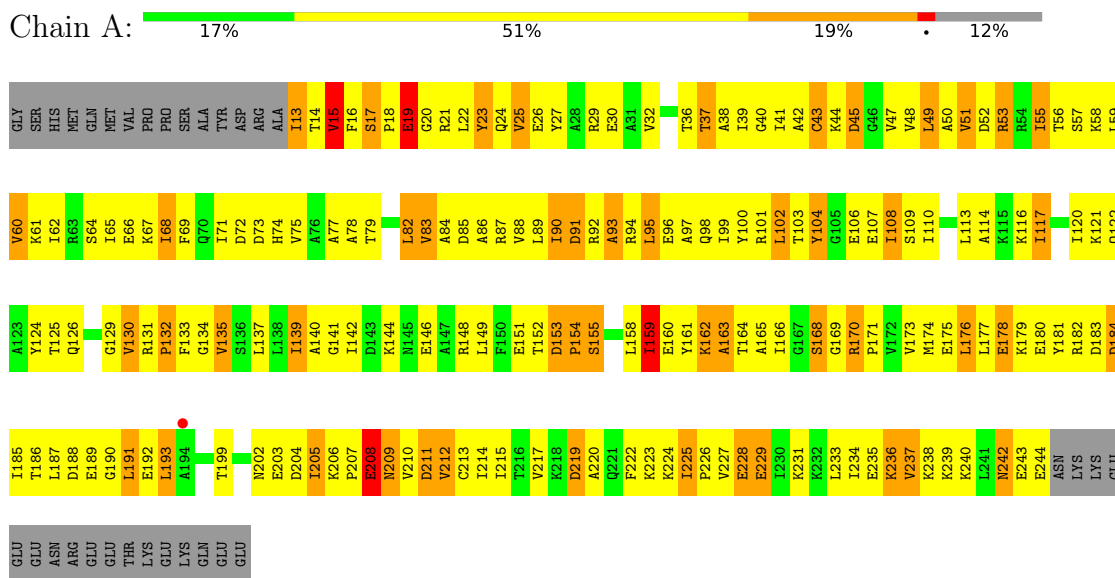
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Chain	Residue	Modelled	Actual	Comment	Reference
m	6	MET	-	expression tag	UNP Q58634
n	6	MET	-	expression tag	UNP Q58634

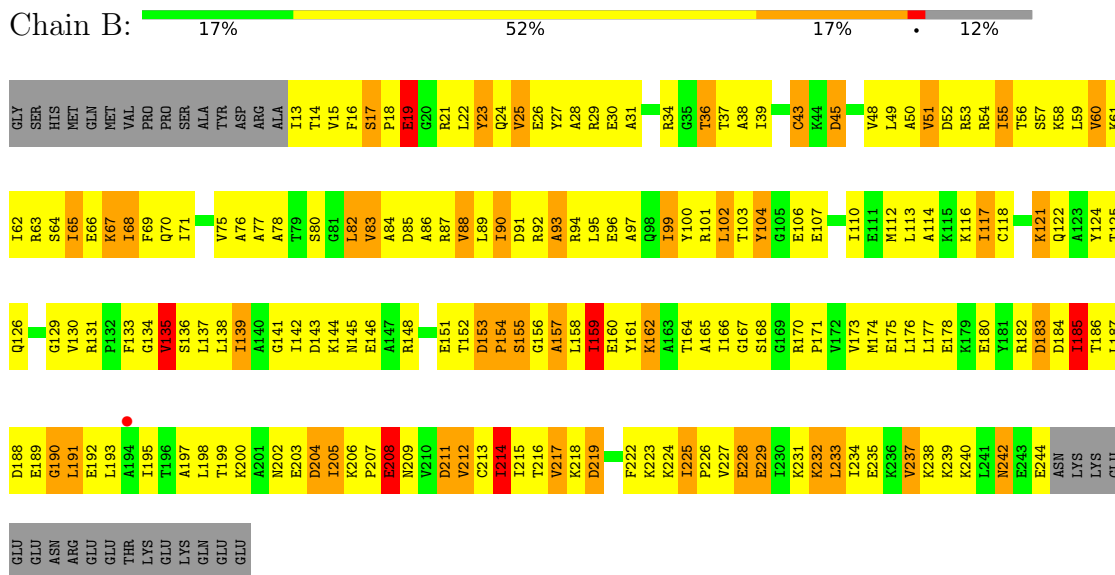
3 Residue-property plots

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.

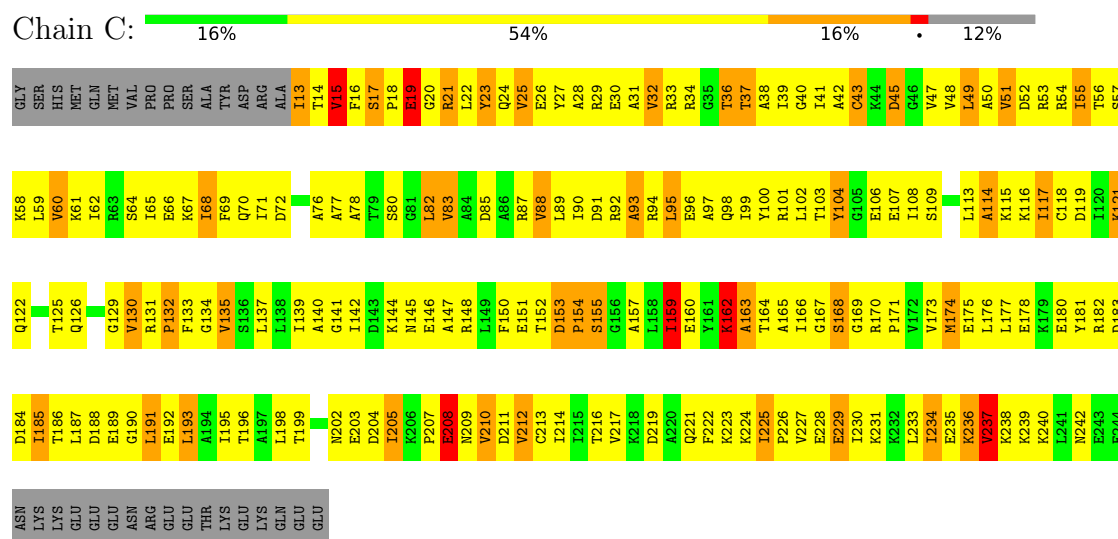
• Molecule 1: Proteasome subunit alpha



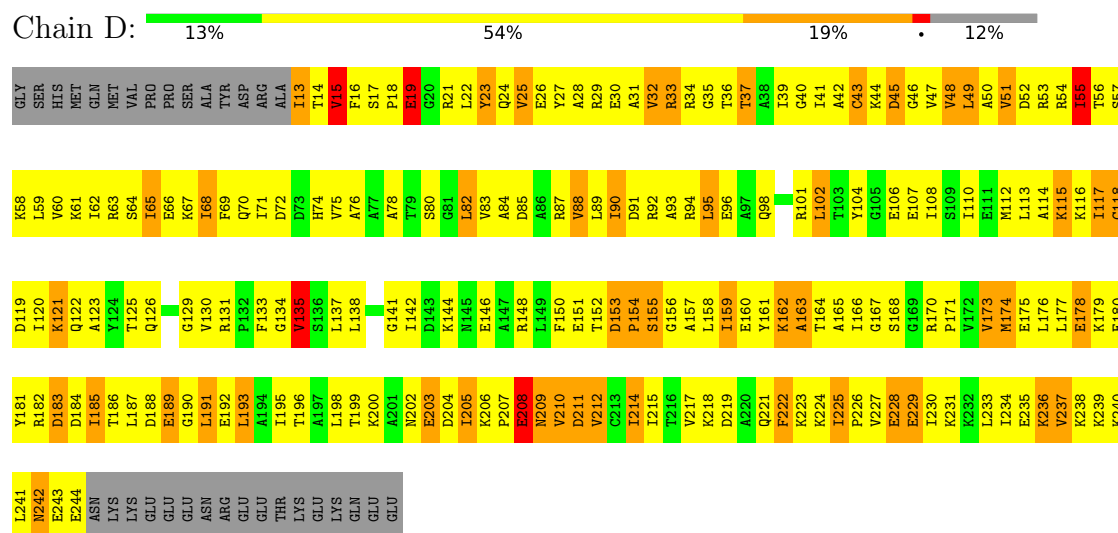
• Molecule 1: Proteasome subunit alpha



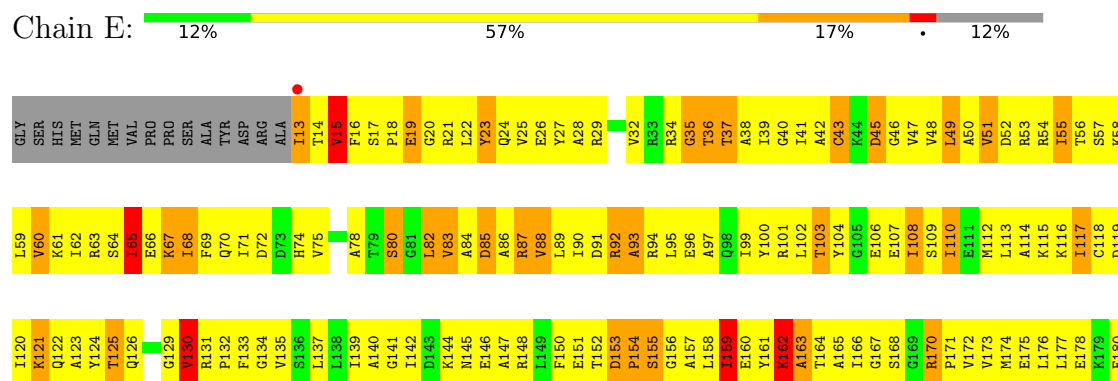
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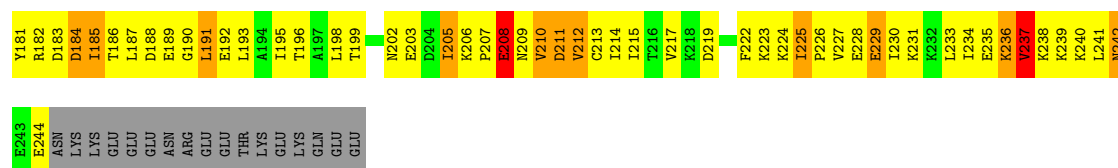


• Molecule 1: Proteasome subunit alpha



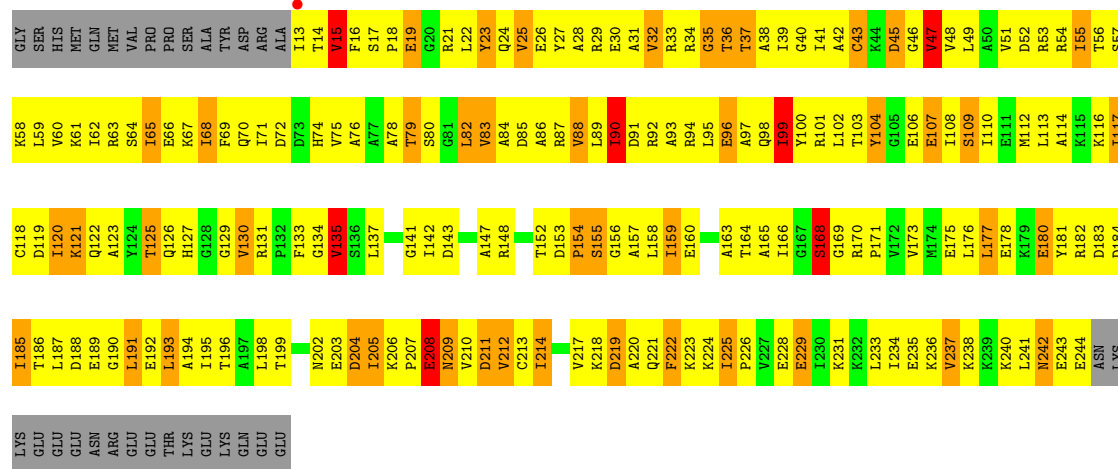
• Molecule 1: Proteasome subunit alpha





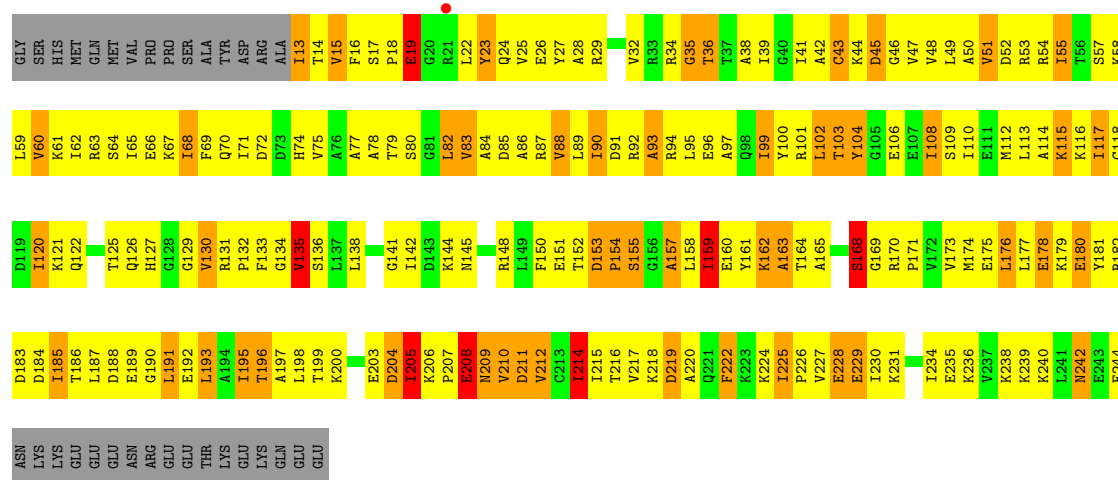
• Molecule 1: Proteasome subunit alpha

Chain F: 14% 54% 17% 12%



• Molecule 1: Proteasome subunit alpha

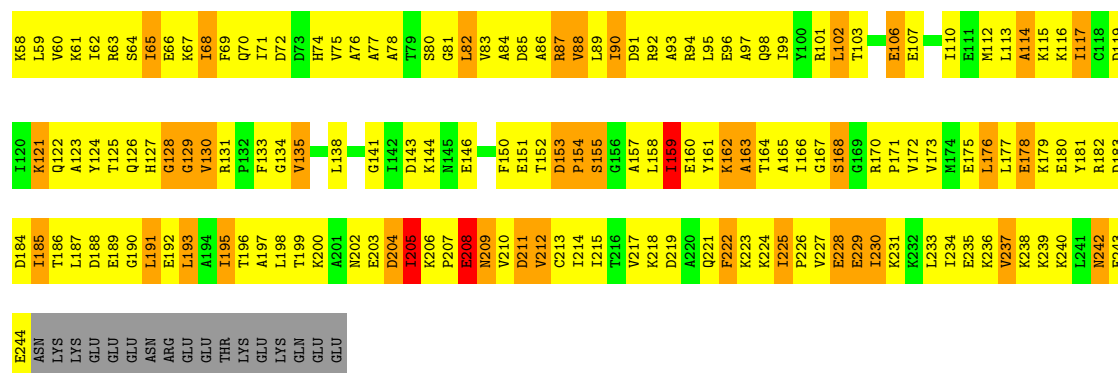
Chain G: 16% 51% 19% 12%



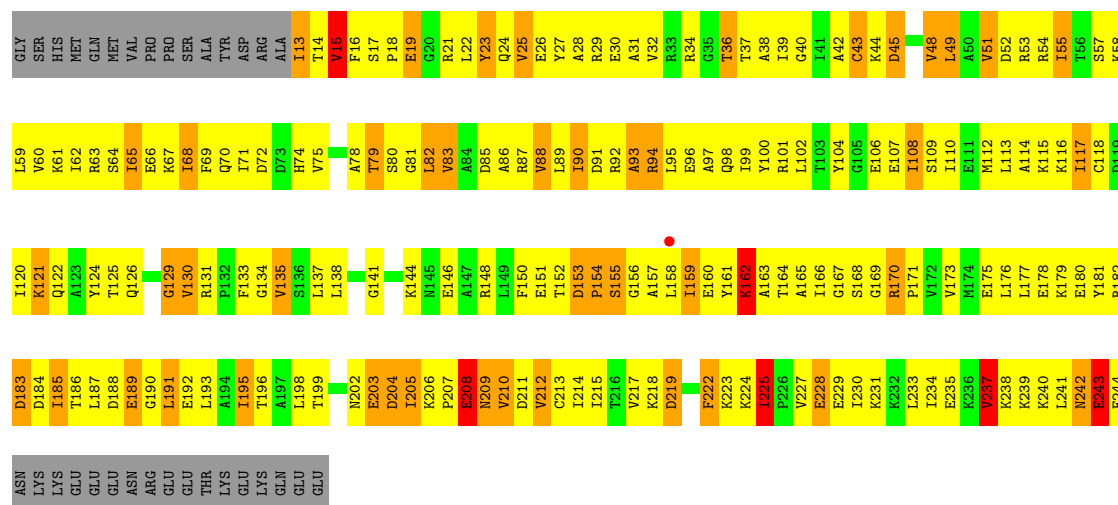
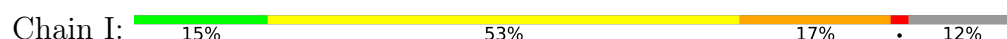
• Molecule 1: Proteasome subunit alpha

Chain H: 13% 54% 19% 12%

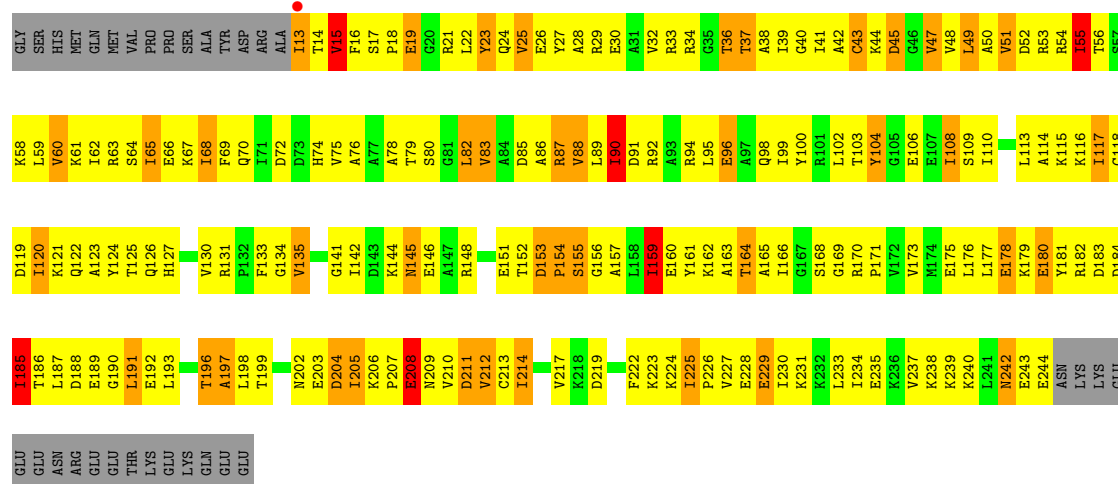
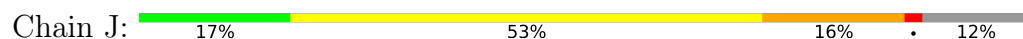




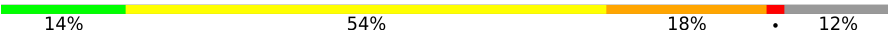
• Molecule 1: Proteasome subunit alpha

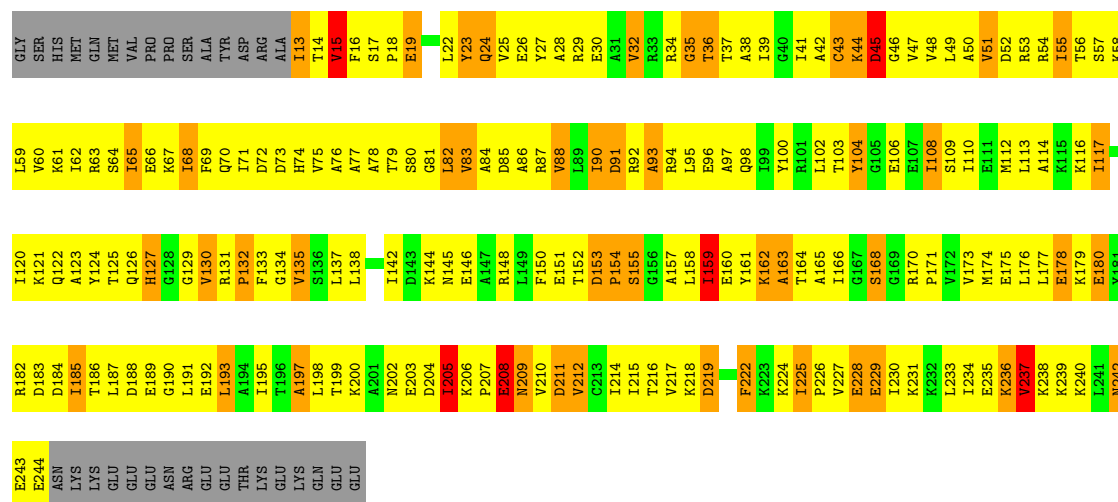


• Molecule 1: Proteasome subunit alpha

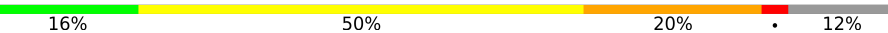


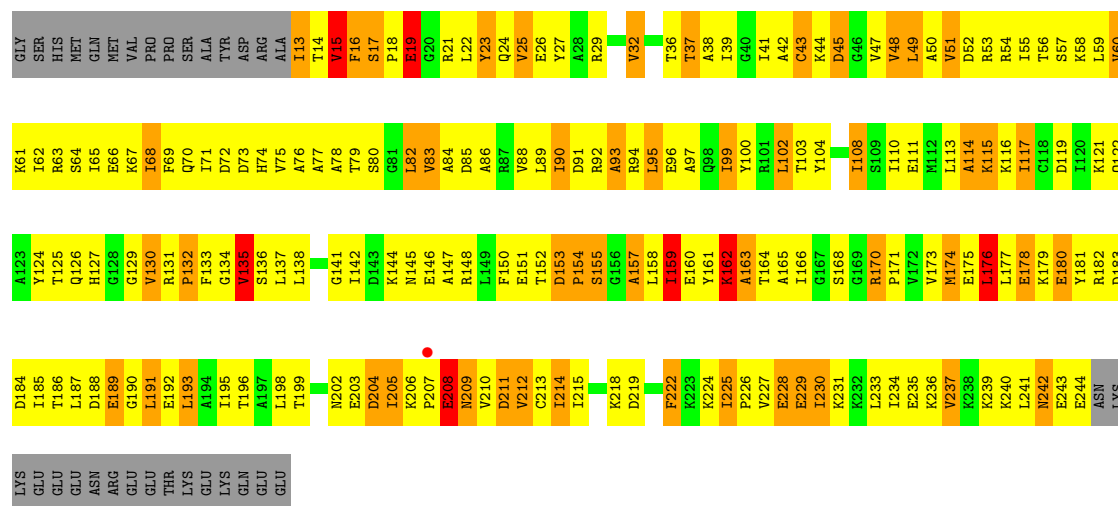
- Molecule 1: Proteasome subunit alpha

Chain K: 

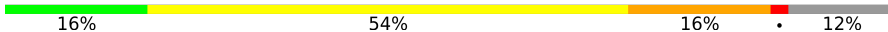


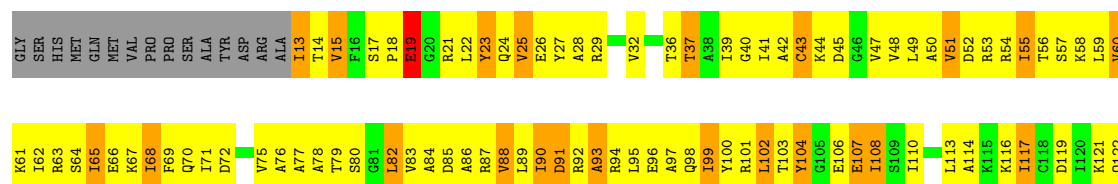
- Molecule 1: Proteasome subunit alpha

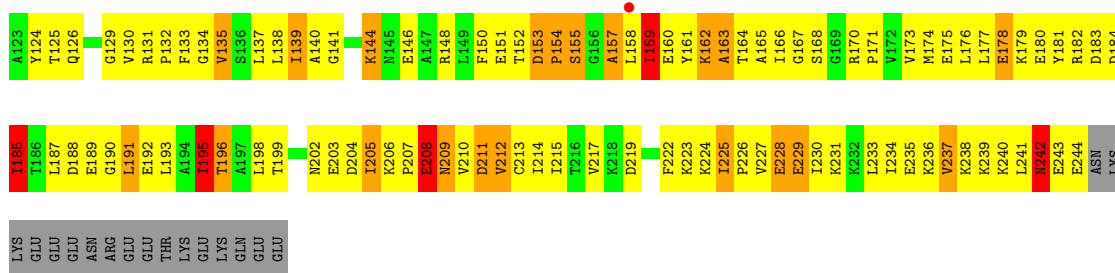
Chain L: 



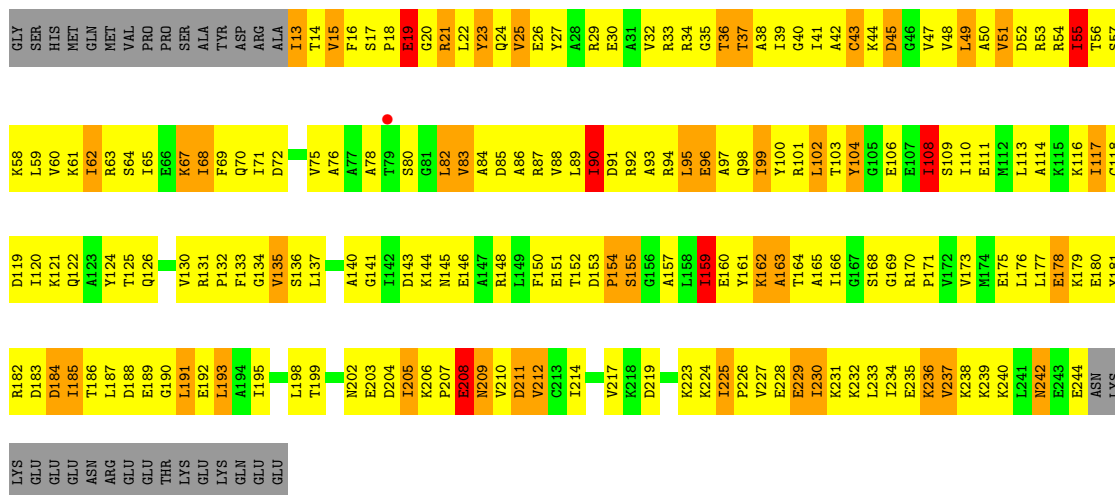
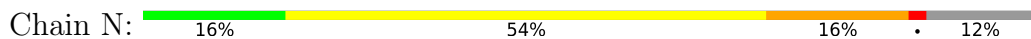
- Molecule 1: Proteasome subunit alpha

Chain M: 

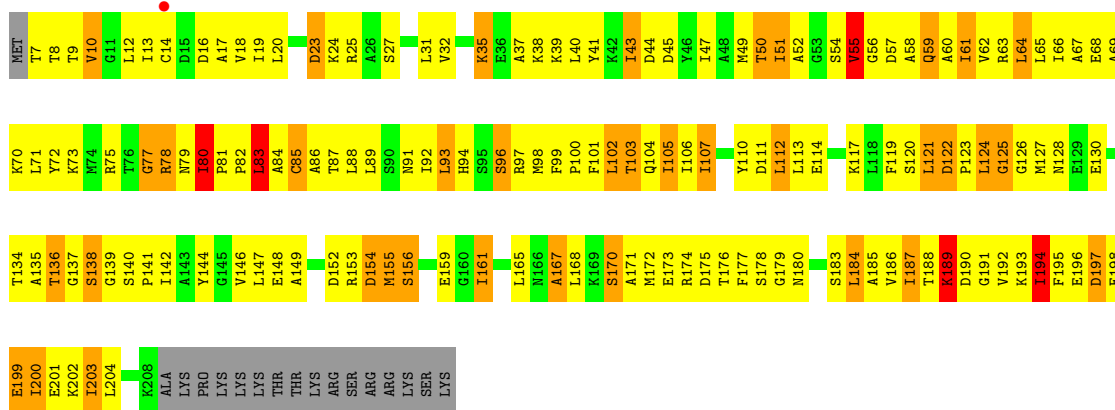
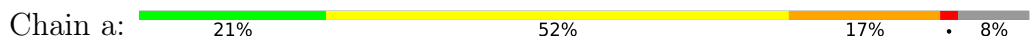




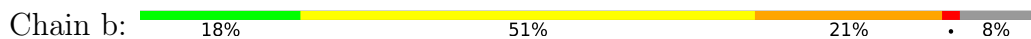
- Molecule 1: Proteasome subunit alpha

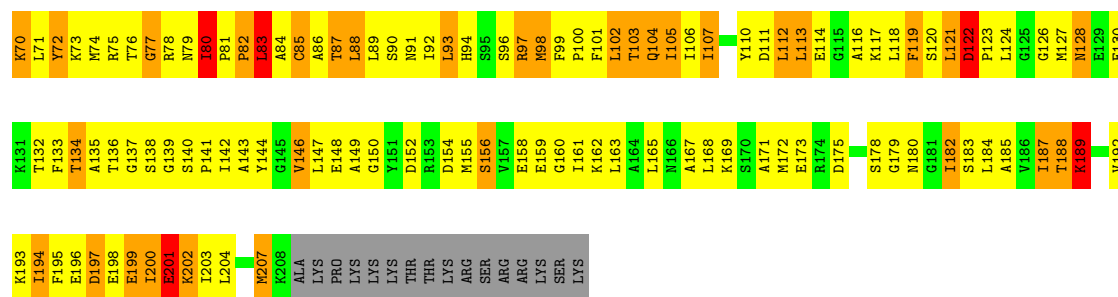


- Molecule 2: Proteasome subunit beta



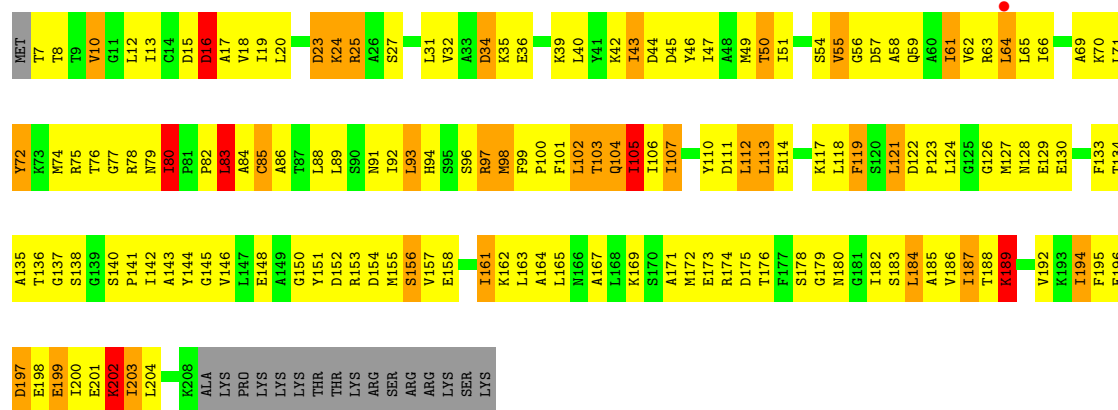
- Molecule 2: Proteasome subunit beta





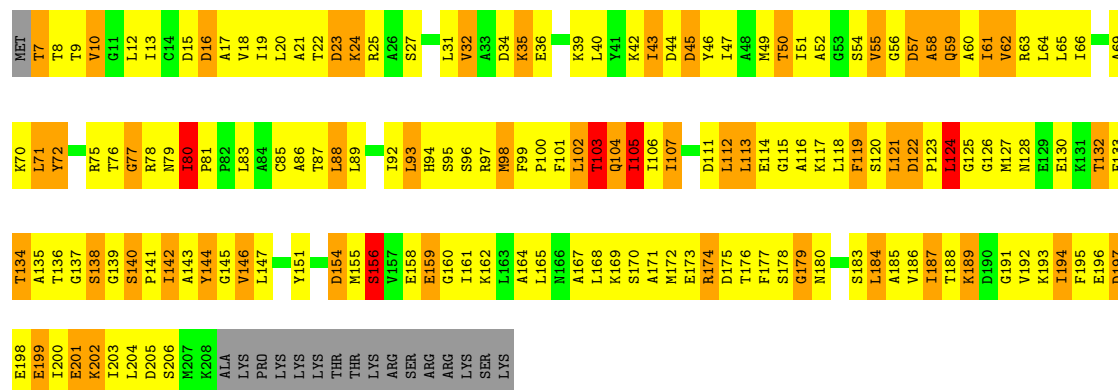
• Molecule 2: Proteasome subunit beta

Chain c: 22% 53% 14% 8%



• Molecule 2: Proteasome subunit beta

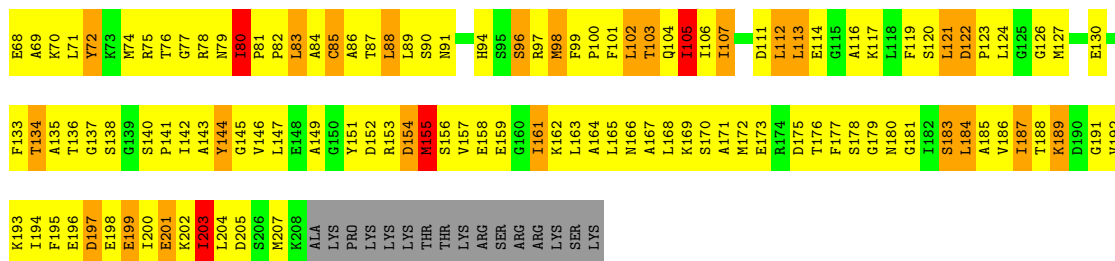
Chain d: 17% 50% 22% 8%



• Molecule 2: Proteasome subunit beta

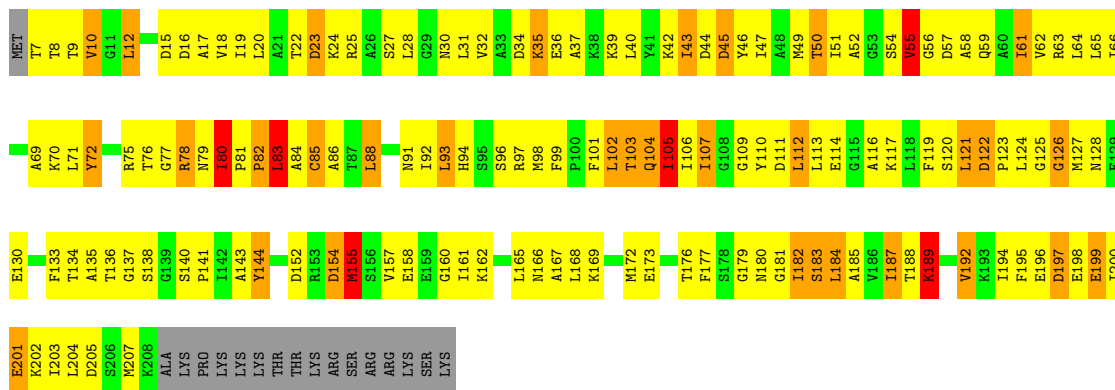
Chain e: 16% 56% 17% 8%





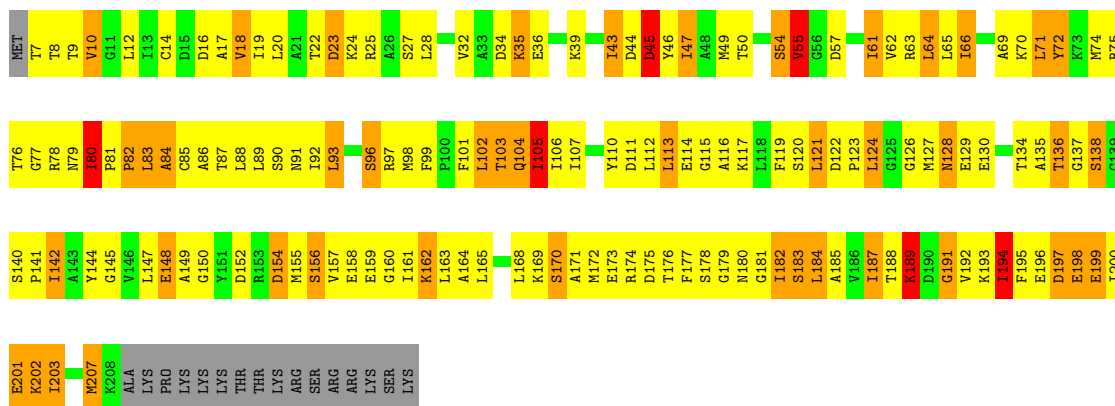
• Molecule 2: Proteasome subunit beta

Chain f: 24% 51% 15% 8%



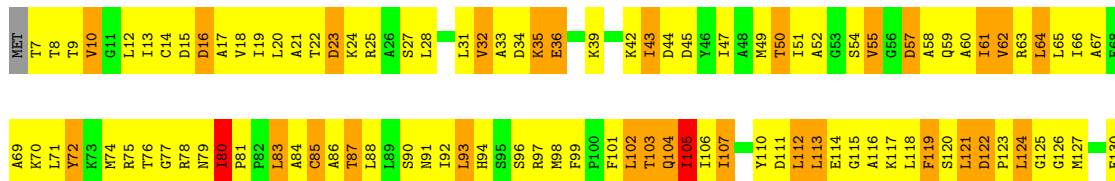
• Molecule 2: Proteasome subunit beta

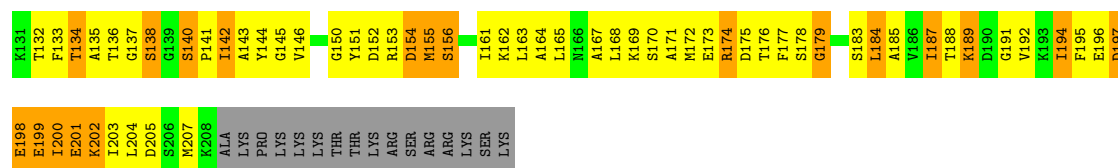
Chain g: 22% 47% 20% 8%



• Molecule 2: Proteasome subunit beta

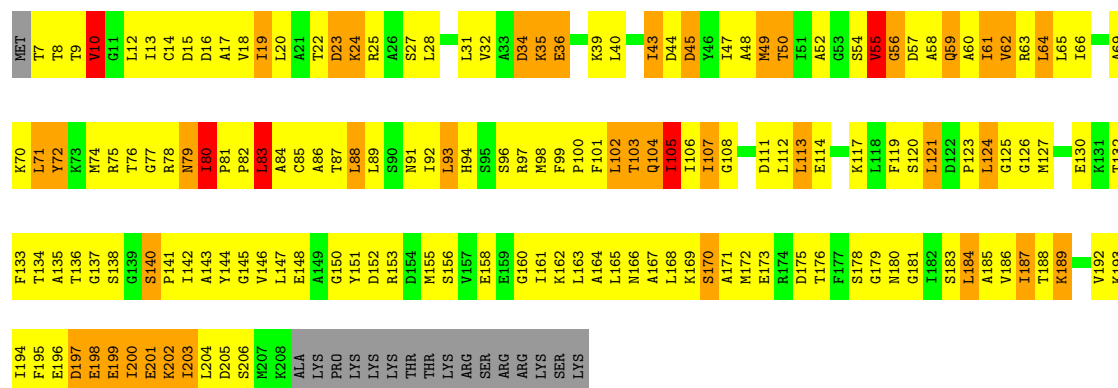
Chain h: 18% 52% 21% 8%





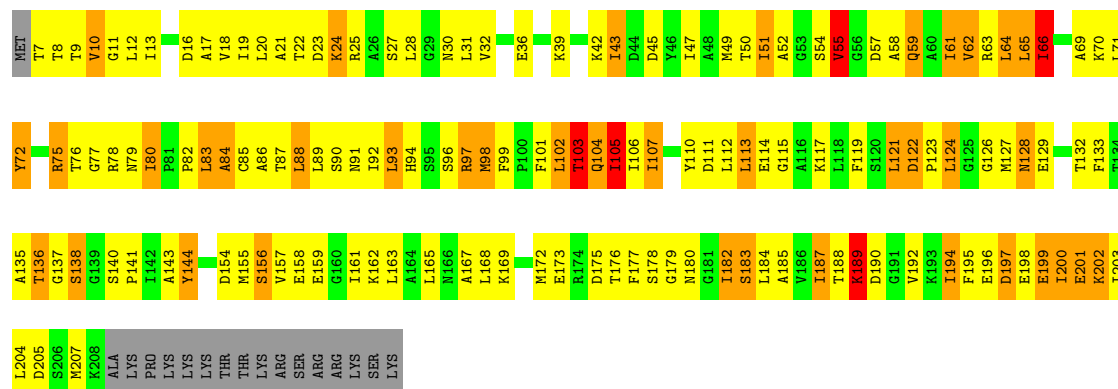
• Molecule 2: Proteasome subunit beta

Chain i: 18% 54% 18% • 8%



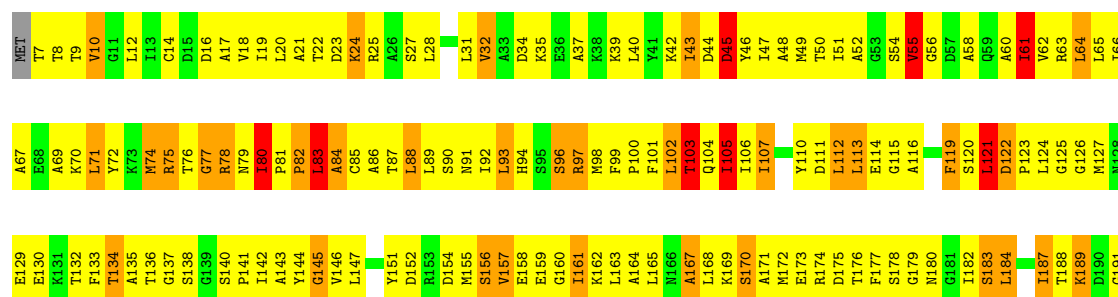
• Molecule 2: Proteasome subunit beta

Chain j: 26% 47% 18% • 8%



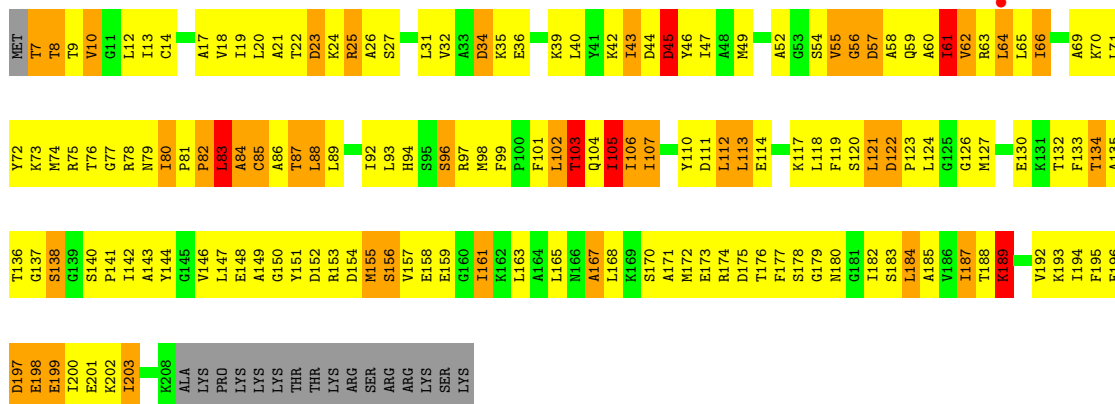
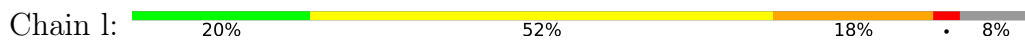
• Molecule 2: Proteasome subunit beta

Chain k: 16% 55% 17% • 8%

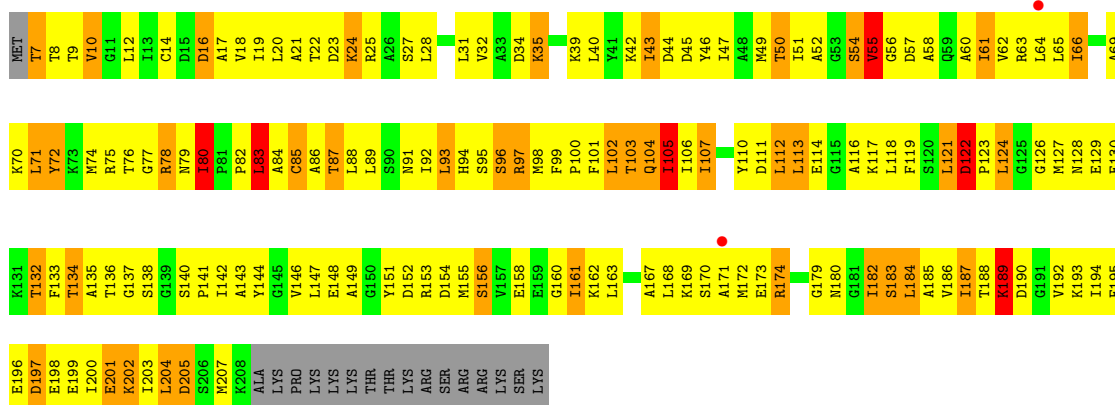
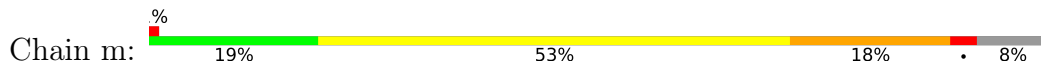




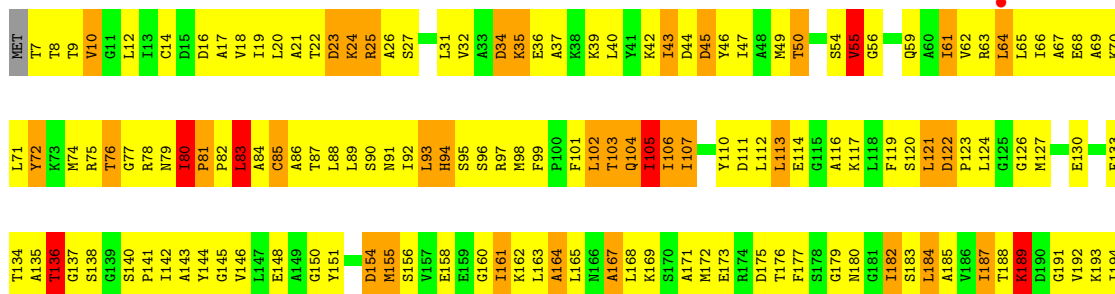
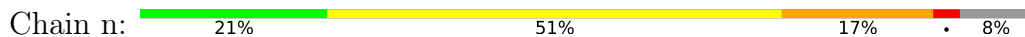
• Molecule 2: Proteasome subunit beta



• Molecule 2: Proteasome subunit beta



• Molecule 2: Proteasome subunit beta



F195	E196	D197	E198	E199	I200	E201	K202	I203	L204	K208	ALA	LYS	PRO	LYS	LYS	LYS	THR	THR	LYS	ARG	SER	ARG	ARG	LYS	SER	LYS
------	------	------	------	------	------	------	------	------	------	------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	206.72Å 219.54Å 149.02Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.98 – 4.10 49.98 – 4.10	Depositor EDS
% Data completeness (in resolution range)	99.8 (49.98-4.10) 99.8 (49.98-4.10)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.13	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.49 (at 4.14Å)	Xtrriage
Refinement program	PHENIX (phenix.refine)	Depositor
R, R_{free}	0.254 , 0.325 0.246 , 0.312	Depositor DCC
R_{free} test set	2740 reflections (5.09%)	wwPDB-VP
Wilson B-factor (Å ²)	118.1	Xtrriage
Anisotropy	0.499	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 203.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.28$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	46648	wwPDB-VP
Average B, all atoms (Å ²)	141.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 40.62 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 2.6646e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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 ⓘ

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	0.64	0/1832	1.00	7/2468 (0.3%)
1	B	0.61	0/1832	1.03	8/2468 (0.3%)
1	C	0.67	0/1832	1.07	6/2468 (0.2%)
1	D	0.72	0/1832	1.13	9/2468 (0.4%)
1	E	0.64	0/1832	1.04	6/2468 (0.2%)
1	F	0.74	0/1832	1.08	9/2468 (0.4%)
1	G	0.71	0/1832	1.09	10/2468 (0.4%)
1	H	0.66	0/1832	1.03	9/2468 (0.4%)
1	I	0.68	1/1832 (0.1%)	1.07	14/2468 (0.6%)
1	J	0.69	1/1832 (0.1%)	1.03	8/2468 (0.3%)
1	K	0.65	0/1832	1.05	12/2468 (0.5%)
1	L	0.68	0/1832	1.07	12/2468 (0.5%)
1	M	0.64	0/1832	1.01	7/2468 (0.3%)
1	N	0.63	0/1832	1.00	7/2468 (0.3%)
2	a	0.70	0/1536	1.02	4/2070 (0.2%)
2	b	0.66	0/1536	1.01	6/2070 (0.3%)
2	c	0.67	0/1536	0.98	4/2070 (0.2%)
2	d	0.70	0/1536	1.09	9/2070 (0.4%)
2	e	0.76	0/1536	1.05	6/2070 (0.3%)
2	f	0.81	0/1536	1.10	4/2070 (0.2%)
2	g	0.78	0/1536	1.05	5/2070 (0.2%)
2	h	0.71	0/1536	1.03	6/2070 (0.3%)
2	i	0.77	0/1536	1.03	3/2070 (0.1%)
2	j	0.80	0/1536	1.16	8/2070 (0.4%)
2	k	0.76	0/1536	1.10	10/2070 (0.5%)
2	l	0.71	0/1536	1.07	8/2070 (0.4%)
2	m	0.66	0/1536	1.07	7/2070 (0.3%)
2	n	0.68	0/1536	1.01	9/2070 (0.4%)
All	All	0.70	2/47152 (0.0%)	1.05	213/63532 (0.3%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	90	ILE	CA-C	5.23	1.59	1.52
1	I	90	ILE	CA-C	5.05	1.58	1.52

All (213) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	229	GLU	N-CA-C	-9.42	101.01	111.28
1	L	229	GLU	N-CA-C	-9.23	101.20	111.07
1	C	93	ALA	N-CA-C	-9.11	101.31	111.14
1	E	229	GLU	N-CA-C	-8.95	101.47	111.14
1	G	93	ALA	N-CA-C	-8.75	101.69	111.14
1	N	229	GLU	N-CA-C	-8.75	101.83	111.36
2	d	122	ASP	CA-C-N	8.73	128.88	119.28
2	d	122	ASP	C-N-CA	8.73	128.88	119.28
1	N	93	ALA	N-CA-C	-8.48	101.26	111.69
1	F	229	GLU	N-CA-C	-8.40	102.06	111.14
1	K	15	VAL	CB-CA-C	-8.39	103.86	111.74
1	C	209	ASN	N-CA-C	-8.34	102.86	112.87
2	k	122	ASP	CA-C-N	8.27	128.00	119.56
2	k	122	ASP	C-N-CA	8.27	128.00	119.56
2	a	194	ILE	CB-CA-C	-8.03	103.29	111.80
1	A	229	GLU	N-CA-C	-8.01	102.50	111.07
2	m	122	ASP	CA-C-N	7.99	127.71	119.56
2	m	122	ASP	C-N-CA	7.99	127.71	119.56
1	M	229	GLU	N-CA-C	-7.91	102.60	111.14
1	J	135	VAL	N-CA-C	7.76	118.00	108.06
1	G	135	VAL	N-CA-C	7.67	117.88	108.06
2	g	191	GLY	N-CA-C	7.53	120.24	110.45
1	L	93	ALA	N-CA-C	-7.50	102.46	111.69
2	m	105	ILE	N-CA-C	7.49	118.21	107.88
1	J	99	ILE	CB-CA-C	-7.49	102.39	111.97
1	D	135	VAL	N-CA-C	7.47	117.63	108.06
1	B	229	GLU	N-CA-C	-7.39	103.30	111.36
1	F	135	VAL	N-CA-C	7.32	117.43	108.06
1	D	162	LYS	N-CA-C	-7.29	104.19	113.23
1	G	229	GLU	N-CA-C	-7.28	103.43	111.36
2	j	66	ILE	CB-CA-C	-7.28	102.32	112.14
1	B	159	ILE	N-CA-C	7.14	117.00	106.85
1	D	209	ASN	N-CA-C	-7.13	104.45	113.01
2	h	122	ASP	CA-C-N	6.97	126.67	119.56
2	h	122	ASP	C-N-CA	6.97	126.67	119.56
1	C	162	LYS	N-CA-C	-6.97	104.59	113.23
1	H	229	GLU	N-CA-C	-6.96	103.62	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	162	LYS	N-CA-C	-6.94	104.85	113.38
2	l	66	ILE	CB-CA-C	-6.92	103.02	111.88
1	I	209	ASN	N-CA-C	-6.82	105.07	113.19
2	d	191	GLY	N-CA-C	6.79	121.67	111.42
1	G	162	LYS	N-CA-C	-6.76	105.06	113.38
1	K	135	VAL	N-CA-C	6.73	116.68	108.06
1	J	162	LYS	N-CA-C	-6.73	105.22	113.50
1	K	209	ASN	N-CA-C	-6.72	105.20	113.19
1	I	48	VAL	N-CA-C	6.71	117.21	108.35
1	D	229	GLU	N-CA-C	-6.67	103.94	111.07
1	E	162	LYS	N-CA-C	-6.64	104.66	112.89
2	a	122	ASP	CA-C-N	6.63	126.77	119.87
2	a	122	ASP	C-N-CA	6.63	126.77	119.87
1	K	93	ALA	N-CA-C	-6.61	104.00	111.07
2	j	84	ALA	N-CA-C	-6.60	104.16	112.93
2	b	15	ASP	CB-CA-C	-6.58	108.29	117.23
2	f	122	ASP	CA-C-N	6.54	126.23	119.56
2	f	122	ASP	C-N-CA	6.54	126.23	119.56
1	N	162	LYS	N-CA-C	-6.53	105.32	113.28
1	D	91	ASP	N-CA-C	-6.49	105.08	112.87
1	C	229	GLU	N-CA-C	-6.47	104.14	111.07
1	E	93	ALA	N-CA-C	-6.46	103.74	111.69
2	k	191	GLY	N-CA-C	6.44	119.88	110.80
2	k	84	ALA	N-CA-C	-6.41	104.66	113.18
2	e	98	MET	N-CA-C	-6.40	104.57	112.38
1	K	205	ILE	CB-CA-C	-6.40	102.68	110.99
2	n	81	PRO	CA-C-N	6.39	127.83	119.84
2	n	81	PRO	C-N-CA	6.39	127.83	119.84
2	l	194	ILE	CB-CA-C	-6.38	103.06	111.81
1	B	135	VAL	N-CA-C	6.38	116.78	108.35
2	h	191	GLY	N-CA-C	6.38	120.44	111.19
1	H	209	ASN	N-CA-C	-6.38	105.36	113.01
2	l	122	ASP	CA-C-N	6.34	126.04	119.82
2	l	122	ASP	C-N-CA	6.34	126.04	119.82
2	k	100	PRO	CA-C-O	-6.34	116.62	121.31
2	g	66	ILE	CB-CA-C	-6.32	103.76	112.04
1	I	135	VAL	N-CA-C	6.32	116.15	108.06
1	L	162	LYS	N-CA-C	-6.32	105.53	113.18
1	N	90	ILE	N-CA-C	6.32	116.36	110.42
2	k	97	ARG	N-CA-C	-6.24	104.40	111.14
1	A	15	VAL	CB-CA-C	-6.24	105.88	111.74
2	m	76	THR	N-CA-C	6.24	117.77	110.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	h	179	GLY	N-CA-C	6.22	124.03	115.27
1	L	48	VAL	N-CA-C	6.21	118.88	108.81
2	e	191	GLY	N-CA-C	6.21	119.25	110.74
1	D	48	VAL	N-CA-C	6.20	117.62	108.45
1	I	93	ALA	N-CA-C	-6.19	104.43	112.23
1	A	93	ALA	N-CA-C	-6.17	104.11	111.69
2	b	122	ASP	CA-C-N	6.15	125.83	119.56
2	b	122	ASP	C-N-CA	6.15	125.83	119.56
2	l	106	ILE	CB-CA-C	-6.13	102.15	110.42
2	e	122	ASP	CA-C-N	6.04	126.20	119.32
2	e	122	ASP	C-N-CA	6.04	126.20	119.32
1	G	159	ILE	N-CA-C	5.98	115.34	106.85
2	d	100	PRO	CA-C-O	-5.96	116.90	121.31
2	j	122	ASP	CA-C-N	5.96	125.64	119.56
2	j	122	ASP	C-N-CA	5.96	125.64	119.56
1	J	229	GLU	N-CA-C	-5.96	104.37	111.69
1	I	15	VAL	CB-CA-C	-5.95	106.15	111.74
2	f	126	GLY	N-CA-C	-5.94	105.10	111.93
1	A	162	LYS	N-CA-C	-5.93	106.00	113.18
1	G	99	ILE	CB-CA-C	-5.93	104.37	111.97
1	G	214	ILE	N-CA-C	5.93	116.40	107.80
1	I	94	ARG	N-CA-C	-5.92	104.91	111.71
2	i	80	ILE	CB-CA-C	-5.90	100.62	111.36
2	k	119	PHE	N-CA-C	5.90	118.73	108.76
1	B	190	GLY	N-CA-C	-5.89	108.19	114.67
1	G	209	ASN	N-CA-C	-5.88	106.08	113.20
1	G	205	ILE	CB-CA-C	-5.87	102.39	110.96
1	I	90	ILE	N-CA-C	5.87	116.08	110.74
1	F	159	ILE	N-CA-C	5.82	115.99	107.37
2	l	167	ALA	N-CA-C	-5.82	104.30	111.40
1	K	81	GLY	N-CA-C	-5.81	102.53	110.20
1	A	15	VAL	N-CA-C	5.79	114.76	107.70
1	H	205	ILE	CB-CA-C	-5.78	102.53	110.96
1	N	209	ASN	N-CA-C	-5.77	106.08	113.01
1	H	159	ILE	N-CA-C	5.77	115.89	106.72
2	j	88	LEU	N-CA-C	-5.75	104.64	111.03
2	c	100	PRO	CA-C-O	-5.74	117.06	121.31
1	E	92	ARG	N-CA-C	-5.74	108.08	114.62
1	L	135	VAL	N-CA-C	5.74	116.62	108.42
1	F	209	ASN	N-CA-C	-5.73	106.13	113.01
1	F	15	VAL	CB-CA-C	-5.71	106.37	111.74
1	F	17	SER	N-CA-C	5.71	118.01	110.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	e	80	ILE	CB-CA-C	-5.71	100.98	111.36
1	H	135	VAL	N-CA-C	5.64	115.28	108.06
2	i	10	VAL	N-CA-C	5.63	115.98	108.27
1	I	162	LYS	N-CA-C	-5.60	106.61	113.50
2	c	98	MET	N-CA-C	-5.60	106.15	112.87
1	J	90	ILE	N-CA-C	5.59	115.79	110.53
1	K	229	GLU	N-CA-C	-5.58	105.11	111.14
1	L	209	ASN	N-CA-C	-5.58	106.45	113.20
1	K	15	VAL	N-CA-C	5.57	114.49	107.70
1	D	118	CYS	N-CA-C	-5.56	106.26	113.16
2	b	119	PHE	N-CA-C	5.53	117.42	108.41
2	n	122	ASP	CA-C-N	5.52	126.74	119.84
2	n	122	ASP	C-N-CA	5.52	126.74	119.84
2	g	84	ALA	N-CA-C	-5.52	106.47	113.43
2	k	203	ILE	N-CA-C	5.50	115.64	110.30
1	D	189	GLU	N-CA-C	-5.49	105.71	112.90
1	D	108	ILE	N-CA-C	5.49	116.34	108.93
1	K	45	ASP	N-CA-C	-5.49	107.59	114.56
1	N	159	ILE	N-CA-C	5.48	114.64	106.85
1	L	189	GLU	N-CA-C	-5.48	106.44	113.23
1	B	93	ALA	N-CA-C	-5.46	105.22	111.07
2	d	58	ALA	N-CA-C	-5.44	105.50	111.82
1	L	159	ILE	N-CA-C	5.44	115.37	106.72
1	A	159	ILE	N-CA-C	5.44	115.36	106.72
1	M	209	ASN	N-CA-C	-5.43	106.64	113.20
2	m	66	ILE	CB-CA-C	-5.42	104.94	112.04
2	m	100	PRO	CA-C-O	-5.42	117.30	121.31
2	g	142	ILE	N-CA-C	-5.41	104.60	110.23
1	M	242	ASN	N-CA-C	5.39	116.37	107.20
1	C	167	GLY	N-CA-C	5.39	116.82	111.21
2	j	72	TYR	N-CA-C	-5.38	104.82	111.33
2	n	191	GLY	N-CA-C	5.38	119.80	111.08
2	d	194	ILE	CB-CA-C	-5.37	104.80	111.08
1	B	217	VAL	N-CA-C	-5.36	105.96	112.76
2	l	25	ARG	N-CA-C	5.35	117.39	108.02
1	J	108	ILE	N-CA-C	5.35	116.59	109.37
1	I	195	ILE	CB-CA-C	-5.35	105.12	111.97
2	c	25	ARG	N-CA-C	5.34	117.23	108.52
1	B	233	LEU	N-CA-C	-5.33	108.04	114.75
2	a	167	ALA	N-CA-C	-5.32	105.40	111.14
2	d	179	GLY	N-CA-C	5.31	123.75	115.72
1	F	107	GLU	N-CA-C	-5.31	102.78	110.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	n	25	ARG	N-CA-C	5.29	117.15	108.52
2	h	119	PHE	N-CA-C	5.29	117.03	108.41
1	F	99	ILE	CB-CA-C	-5.29	104.93	111.70
1	K	162	LYS	N-CA-C	-5.28	106.89	113.38
1	E	159	ILE	N-CA-C	5.28	115.11	106.72
1	K	127	HIS	N-CA-C	5.26	117.98	109.40
2	m	124	LEU	N-CA-C	-5.25	105.47	111.14
1	L	176	LEU	N-CA-C	-5.23	105.49	111.14
2	n	106	ILE	CB-CA-C	-5.22	103.37	110.42
2	f	192	VAL	CB-CA-C	-5.21	102.75	111.29
1	M	159	ILE	N-CA-C	5.21	115.00	106.72
2	j	97	ARG	N-CA-C	-5.20	105.05	111.40
1	A	53	ARG	N-CA-C	-5.20	103.28	110.35
1	M	113	LEU	N-CA-C	-5.20	105.53	111.14
2	c	119	PHE	N-CA-C	5.19	117.36	108.90
1	L	214	ILE	CB-CA-C	-5.19	103.39	110.96
2	l	84	ALA	N-CA-C	-5.19	107.61	114.04
2	k	121	LEU	N-CA-C	5.19	117.05	108.13
1	B	214	ILE	N-CA-C	5.18	115.32	107.75
1	L	157	ALA	N-CA-C	5.18	116.35	107.28
1	I	79	THR	N-CA-C	5.17	118.44	110.42
2	b	66	ILE	CB-CA-C	-5.17	105.27	112.04
1	C	159	ILE	N-CA-C	5.16	113.81	106.53
1	N	108	ILE	N-CA-C	5.16	116.06	109.30
2	h	84	ALA	N-CA-C	-5.16	107.05	113.55
2	b	98	MET	N-CA-C	-5.15	105.64	112.34
2	n	136	THR	CB-CA-C	-5.15	100.74	110.16
1	G	127	HIS	N-CA-C	5.15	117.79	109.40
1	I	225	ILE	CA-C-N	5.14	125.05	119.85
1	I	225	ILE	C-N-CA	5.14	125.05	119.85
2	j	98	MET	N-CA-C	-5.14	105.65	112.34
2	e	25	ARG	N-CA-C	5.13	116.78	108.41
2	n	76	THR	N-CA-C	5.12	116.45	110.41
1	K	159	ILE	N-CA-C	5.12	114.94	107.37
1	M	107	GLU	N-CA-C	-5.11	103.08	110.64
1	H	93	ALA	N-CA-C	-5.10	105.42	111.69
2	g	194	ILE	CB-CA-C	-5.09	104.78	111.25
1	I	189	GLU	N-CA-C	-5.08	107.22	113.41
1	L	77	ALA	N-CA-C	5.07	117.09	109.23
2	k	167	ALA	N-CA-C	-5.07	105.45	110.97
1	F	90	ILE	N-CA-C	5.05	115.28	110.53
1	J	120	ILE	CB-CA-C	-5.05	105.50	111.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	d	156	SER	N-CA-C	5.05	121.56	110.80
2	i	49	MET	N-CA-C	5.05	116.66	109.14
1	H	48	VAL	N-CA-C	5.04	116.98	108.81
1	E	110	ILE	CB-CA-C	-5.03	105.43	112.02
1	M	93	ALA	N-CA-C	-5.03	105.49	110.97
1	J	159	ILE	N-CA-C	5.02	114.70	106.72
1	H	106	GLU	N-CA-C	5.01	116.96	109.59
2	d	119	PHE	N-CA-C	5.00	116.57	108.41

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	1813	0	1899	276	0
1	B	1813	0	1899	278	2
1	C	1813	0	1899	281	0
1	D	1813	0	1899	326	0
1	E	1813	0	1899	329	1
1	F	1813	0	1899	279	1
1	G	1813	0	1899	299	0
1	H	1813	0	1899	285	0
1	I	1813	0	1899	284	1
1	J	1813	0	1899	278	0
1	K	1813	0	1899	299	0
1	L	1813	0	1899	275	0
1	M	1813	0	1899	269	2
1	N	1813	0	1899	278	0
2	a	1519	0	1567	230	0
2	b	1519	0	1567	248	0
2	c	1519	0	1567	240	2
2	d	1519	0	1567	239	0
2	e	1519	0	1567	243	0
2	f	1519	0	1567	223	1
2	g	1519	0	1567	230	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	h	1519	0	1567	240	0
2	i	1519	0	1567	238	2
2	j	1519	0	1567	224	0
2	k	1519	0	1567	248	0
2	l	1519	0	1567	229	0
2	m	1519	0	1567	243	1
2	n	1519	0	1567	233	0
All	All	46648	0	48524	6920	7

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 73.

All (6920) 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)
2:j:49:MET:HE2	2:j:62:VAL:HG13	1.27	1.16
2:m:18:VAL:HB	2:m:187:ILE:HD11	1.27	1.14
2:g:130:GLU:HG2	2:g:134:THR:HB	1.30	1.13
2:i:18:VAL:HB	2:i:187:ILE:HD11	1.31	1.12
1:J:178:GLU:HA	1:K:59:LEU:HD11	1.19	1.12
2:b:18:VAL:HB	2:b:187:ILE:HD11	1.32	1.11
1:K:199:THR:HA	1:K:205:ILE:HD11	1.32	1.11
1:A:178:GLU:HA	1:B:59:LEU:HD11	1.28	1.09
1:E:38:ALA:HB2	1:E:51:VAL:HG13	1.17	1.09
2:j:18:VAL:HB	2:j:187:ILE:HD12	1.35	1.09
1:F:190:GLY:HA2	1:F:193:LEU:HD22	1.34	1.08
2:d:18:VAL:HB	2:d:187:ILE:HD11	1.34	1.08
1:D:207:PRO:O	1:D:208:GLU:HG3	1.54	1.07
1:F:45:ASP:HB2	1:F:187:LEU:HG	1.36	1.07
2:d:24:LYS:HE2	2:d:183:SER:HB2	1.38	1.06
1:D:26:GLU:HG2	1:D:29:ARG:HE	1.17	1.06
1:K:190:GLY:HA2	1:K:193:LEU:HD22	1.36	1.05
2:a:103:THR:H	2:a:123:PRO:HB3	1.17	1.05
2:m:130:GLU:HG2	2:m:134:THR:HB	1.38	1.05
1:A:90:ILE:HD12	1:A:94:ARG:HD2	1.34	1.05
1:B:14:THR:HG22	1:B:15:VAL:HG22	1.38	1.05
2:e:96:SER:HB3	2:e:101:PHE:HB2	1.36	1.05
2:j:82:PRO:HG2	2:j:83:LEU:HD23	1.39	1.04
2:e:18:VAL:HB	2:e:187:ILE:HD11	1.08	1.04
1:D:160:GLU:HB3	1:E:64:SER:HB3	1.05	1.03
1:G:14:THR:HG22	1:G:15:VAL:HG22	1.36	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:207:PRO:O	1:G:208:GLU:HG3	1.56	1.03
2:a:189:LYS:HE2	2:a:189:LYS:H	1.20	1.03
2:f:18:VAL:HB	2:f:187:ILE:HD11	1.41	1.03
1:D:160:GLU:CB	1:E:64:SER:HB3	1.89	1.03
1:E:182:ARG:O	1:E:185:ILE:HG23	1.58	1.03
2:j:18:VAL:HB	2:j:187:ILE:CD1	1.88	1.02
1:H:26:GLU:HG2	1:H:29:ARG:HE	1.21	1.01
2:g:43:ILE:HD13	2:g:43:ILE:H	1.25	1.01
2:i:24:LYS:HE2	2:i:183:SER:HB2	1.41	1.01
2:l:96:SER:HB3	2:l:101:PHE:HB2	1.43	1.01
1:F:14:THR:HG22	1:F:15:VAL:HG22	1.39	1.01
2:k:43:ILE:H	2:k:43:ILE:HD13	1.26	1.01
2:c:43:ILE:H	2:c:43:ILE:HD13	1.22	1.01
1:N:45:ASP:HB2	1:N:187:LEU:HG	1.42	1.01
2:m:172:MET:HG2	2:m:179:GLY:HA2	1.42	1.00
1:A:131:ARG:HE	1:G:125:THR:HG22	1.26	1.00
1:H:45:ASP:HB2	1:H:187:LEU:HG	1.44	1.00
2:g:189:LYS:H	2:g:189:LYS:HE2	1.22	0.99
1:B:212:VAL:HB	1:B:225:ILE:HB	1.39	0.99
2:k:103:THR:H	2:k:123:PRO:HB3	1.22	0.99
1:D:160:GLU:HB3	1:E:64:SER:CB	1.92	0.99
1:A:68:ILE:HD13	1:A:68:ILE:N	1.77	0.99
2:f:110:TYR:CZ	2:f:189:LYS:HD3	1.97	0.99
1:G:41:ILE:O	1:G:47:VAL:HG23	1.63	0.99
2:i:202:LYS:HG3	2:i:203:ILE:HG12	1.40	0.99
1:N:121:LYS:HG3	1:N:133:PHE:HD1	1.27	0.98
2:e:130:GLU:HG2	2:e:134:THR:HB	1.43	0.98
1:A:199:THR:HA	1:A:205:ILE:HD11	1.45	0.98
1:L:68:ILE:HD13	1:L:68:ILE:N	1.79	0.98
2:l:189:LYS:HE2	2:l:189:LYS:H	1.26	0.98
1:C:121:LYS:HG3	1:C:133:PHE:HD1	1.27	0.98
2:i:202:LYS:HG3	2:i:203:ILE:N	1.77	0.98
1:H:160:GLU:HB3	1:I:64:SER:HB3	1.44	0.97
1:N:96:GLU:HG2	1:N:116:LYS:HG2	1.42	0.97
2:k:18:VAL:HB	2:k:187:ILE:HD11	1.43	0.97
1:G:53:ARG:HB3	1:G:65:ILE:HD13	1.45	0.97
1:I:22:LEU:HD22	1:I:25:VAL:HG13	1.40	0.97
1:N:48:VAL:HG22	1:N:214:ILE:HA	1.46	0.97
1:C:96:GLU:HG2	1:C:116:LYS:HG2	1.45	0.97
1:F:199:THR:HA	1:F:205:ILE:HD11	1.44	0.97
1:L:199:THR:HA	1:L:205:ILE:HD11	1.46	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l:43:ILE:HD13	2:l:43:ILE:H	1.28	0.96
1:C:36:THR:HA	1:C:54:ARG:HH12	1.29	0.96
1:K:121:LYS:HG3	1:K:133:PHE:HD1	1.29	0.95
2:i:187:ILE:HG22	2:i:192:VAL:HG22	1.47	0.95
2:a:43:ILE:H	2:a:43:ILE:HD13	1.29	0.95
1:H:121:LYS:HG3	1:H:133:PHE:HD1	1.29	0.95
1:L:14:THR:HG22	1:L:15:VAL:HG22	1.46	0.94
2:f:202:LYS:HG3	2:f:203:ILE:N	1.78	0.94
1:J:38:ALA:HB2	1:J:51:VAL:HG13	1.46	0.94
1:M:126:GLN:O	1:N:130:VAL:HG23	1.67	0.94
2:f:43:ILE:H	2:f:43:ILE:HD13	1.31	0.94
2:i:94:HIS:NE2	2:i:97:ARG:HD3	1.81	0.94
1:E:199:THR:HA	1:E:205:ILE:HD11	1.47	0.94
1:A:96:GLU:HG2	1:A:116:LYS:HG2	1.47	0.94
1:M:212:VAL:HB	1:M:225:ILE:HB	1.48	0.94
1:N:150:PHE:CE1	1:N:160:GLU:HB2	2.02	0.94
1:L:122:GLN:HG2	1:M:84:ALA:HB1	1.47	0.94
2:a:101:PHE:HD1	2:a:102:LEU:H	1.05	0.94
2:c:88:LEU:HB3	2:c:92:ILE:HD11	1.49	0.94
2:g:181:GLY:O	2:g:182:ILE:HG22	1.68	0.94
2:m:202:LYS:HG3	2:m:203:ILE:N	1.79	0.94
2:f:7:THR:HG22	2:f:138:SER:H	1.32	0.94
1:A:14:THR:HG22	1:A:15:VAL:HG22	1.48	0.94
1:I:125:THR:HG22	1:J:131:ARG:HE	1.27	0.94
1:A:45:ASP:HB2	1:A:187:LEU:HG	1.48	0.93
1:A:22:LEU:HD22	1:A:25:VAL:HG13	1.49	0.93
1:H:96:GLU:HG2	1:H:116:LYS:HG2	1.50	0.93
1:B:125:THR:HG22	1:C:131:ARG:HE	1.31	0.93
1:A:36:THR:OG1	1:A:67:LYS:HE2	1.69	0.93
2:f:94:HIS:NE2	2:f:97:ARG:HD3	1.84	0.93
1:M:14:THR:HG22	1:M:15:VAL:HG22	1.48	0.93
1:F:173:VAL:O	1:F:177:LEU:HD13	1.68	0.93
2:l:101:PHE:HD1	2:l:102:LEU:H	1.13	0.93
2:a:83:LEU:HD22	2:a:117:LYS:HE3	1.47	0.93
2:l:9:THR:OG1	2:l:136:THR:HG23	1.68	0.93
1:M:148:ARG:HD2	1:M:160:GLU:OE1	1.66	0.92
1:G:190:GLY:HA2	1:G:193:LEU:HD22	1.49	0.92
2:n:187:ILE:HG22	2:n:192:VAL:HG22	1.48	0.92
1:M:96:GLU:HG2	1:M:116:LYS:HG2	1.50	0.92
2:j:49:MET:CE	2:j:62:VAL:HG13	2.00	0.92
2:m:89:LEU:HD23	2:m:92:ILE:HD12	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:146:VAL:HG21	2:b:167:ALA:HA	1.50	0.92
2:j:101:PHE:HD1	2:j:102:LEU:H	1.15	0.92
1:E:75:VAL:HG22	1:E:141:GLY:HA3	1.52	0.92
2:h:187:ILE:HG22	2:h:192:VAL:HG22	1.51	0.91
2:j:94:HIS:NE2	2:j:97:ARG:HD3	1.84	0.91
1:M:75:VAL:HG22	1:M:141:GLY:HA3	1.50	0.91
1:G:45:ASP:HB2	1:G:187:LEU:HG	1.52	0.91
1:G:192:GLU:HA	1:G:195:ILE:HD12	1.53	0.91
1:A:48:VAL:HG13	1:A:213:CYS:O	1.71	0.91
2:e:52:ALA:HB3	2:e:104:GLN:HB2	1.52	0.91
2:e:202:LYS:HG3	2:e:203:ILE:N	1.84	0.91
1:B:190:GLY:HA2	1:B:193:LEU:HD22	1.52	0.91
1:E:96:GLU:HG2	1:E:116:LYS:HG2	1.50	0.91
1:K:41:ILE:O	1:K:47:VAL:HG23	1.69	0.91
1:D:14:THR:O	1:D:15:VAL:HG13	1.70	0.91
2:c:102:LEU:O	2:c:103:THR:HB	1.71	0.91
1:I:242:ASN:O	1:I:244:GLU:HG3	1.70	0.91
1:L:39:ILE:HG12	1:L:165:ALA:HB2	1.53	0.91
2:m:97:ARG:HG3	2:m:98:MET:H	1.35	0.91
2:c:94:HIS:NE2	2:c:97:ARG:HD3	1.85	0.90
1:I:90:ILE:C	1:I:92:ARG:H	1.78	0.90
1:C:170:ARG:HB2	1:C:171:PRO:HD3	1.53	0.90
1:H:199:THR:HA	1:H:205:ILE:HD11	1.53	0.90
2:e:18:VAL:HB	2:e:187:ILE:CD1	2.00	0.90
1:F:52:ASP:HB2	1:F:198:LEU:HD21	1.54	0.90
2:c:18:VAL:HB	2:c:187:ILE:HD11	1.50	0.90
1:A:48:VAL:HG22	1:A:214:ILE:HA	1.53	0.90
1:F:48:VAL:HG22	1:F:214:ILE:HA	1.54	0.90
2:c:187:ILE:HG22	2:c:192:VAL:HG22	1.52	0.90
2:d:101:PHE:HD1	2:d:102:LEU:H	0.92	0.90
2:k:54:SER:HB2	2:k:102:LEU:HD21	1.53	0.90
2:g:7:THR:HG22	2:g:138:SER:H	1.33	0.90
2:b:43:ILE:HD13	2:b:43:ILE:H	1.36	0.89
1:J:106:GLU:OE2	2:k:81:PRO:HG2	1.72	0.89
2:n:43:ILE:H	2:n:43:ILE:HD13	1.38	0.89
1:F:226:PRO:HG2	1:F:229:GLU:HG2	1.54	0.89
1:I:14:THR:HG22	1:I:15:VAL:HG22	1.53	0.89
2:j:202:LYS:HG3	2:j:203:ILE:N	1.85	0.89
1:C:45:ASP:HB2	1:C:187:LEU:HG	1.52	0.89
2:d:102:LEU:HA	2:d:123:PRO:HB3	1.53	0.89
2:h:24:LYS:HE2	2:h:183:SER:HB2	1.51	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:187:ILE:HG22	2:b:192:VAL:HG22	1.51	0.89
1:H:207:PRO:O	1:H:208:GLU:HG3	1.72	0.89
1:B:121:LYS:HG3	1:B:133:PHE:HD1	1.37	0.89
2:e:135:ALA:H	2:e:144:TYR:HE1	1.17	0.89
2:k:189:LYS:H	2:k:189:LYS:HE2	1.35	0.89
2:h:172:MET:HG2	2:h:179:GLY:HA2	1.53	0.89
1:F:36:THR:HA	1:F:54:ARG:HH12	1.35	0.89
1:K:52:ASP:HB2	1:K:198:LEU:HD21	1.55	0.89
2:a:103:THR:N	2:a:123:PRO:HB3	1.87	0.89
1:H:190:GLY:HA2	1:H:193:LEU:HD22	1.53	0.89
2:j:172:MET:HG2	2:j:179:GLY:HA2	1.55	0.89
2:e:12:LEU:HD21	2:e:19:ILE:HB	1.54	0.88
2:b:18:VAL:HB	2:b:187:ILE:CD1	2.03	0.88
1:M:239:LYS:HG3	1:M:240:LYS:HE2	1.55	0.88
2:g:18:VAL:HB	2:g:187:ILE:HD11	1.55	0.88
2:l:130:GLU:HG2	2:l:134:THR:HB	1.54	0.88
1:E:125:THR:HG22	1:F:131:ARG:HE	1.35	0.88
1:D:96:GLU:HG2	1:D:116:LYS:HG2	1.53	0.88
1:D:205:ILE:HD12	1:D:234:ILE:HD11	1.55	0.88
1:G:207:PRO:O	1:G:208:GLU:CG	2.21	0.88
2:b:25:ARG:HH11	2:b:32:VAL:HG21	1.37	0.88
1:K:125:THR:HG22	1:L:131:ARG:HE	1.37	0.88
1:K:212:VAL:HB	1:K:225:ILE:HB	1.55	0.88
1:G:96:GLU:HG2	1:G:116:LYS:HG2	1.56	0.88
2:f:172:MET:HG2	2:f:179:GLY:HA2	1.54	0.88
1:B:45:ASP:HB2	1:B:187:LEU:HG	1.56	0.88
1:I:38:ALA:HB2	1:I:51:VAL:HG13	1.53	0.88
1:C:16:PHE:HB3	1:D:24:GLN:OE1	1.74	0.88
2:e:24:LYS:HE2	2:e:183:SER:HB2	1.56	0.88
2:k:7:THR:HG22	2:k:138:SER:H	1.37	0.88
1:H:22:LEU:HD22	1:H:25:VAL:HG13	1.53	0.87
1:I:48:VAL:HG22	1:I:214:ILE:HA	1.56	0.87
1:F:186:THR:OG1	1:F:189:GLU:HB2	1.74	0.87
1:I:75:VAL:HG22	1:I:141:GLY:HA3	1.56	0.87
1:J:227:VAL:HA	1:J:230:ILE:HD12	1.55	0.87
1:K:68:ILE:HD13	1:K:68:ILE:N	1.90	0.87
2:j:9:THR:HG22	2:j:22:THR:HG22	1.56	0.87
2:m:101:PHE:HD1	2:m:102:LEU:H	1.21	0.87
1:H:153:ASP:O	1:H:155:SER:N	2.06	0.87
2:d:188:THR:OG1	2:d:189:LYS:HE3	1.74	0.87
1:M:39:ILE:HG12	1:M:165:ALA:HB2	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:199:THR:HA	1:M:205:ILE:HD11	1.54	0.87
1:K:68:ILE:HD13	1:K:68:ILE:H	1.39	0.87
2:k:119:PHE:CE1	2:k:129:GLU:HG3	2.08	0.87
2:f:9:THR:HG22	2:f:22:THR:HG22	1.56	0.87
2:g:101:PHE:HD1	2:g:102:LEU:H	1.19	0.87
1:C:52:ASP:HB2	1:C:198:LEU:HD21	1.56	0.87
2:m:187:ILE:HG22	2:m:192:VAL:HG22	1.57	0.87
1:E:26:GLU:HG2	1:E:29:ARG:HE	1.39	0.86
2:g:44:ASP:O	2:g:46:TYR:N	2.08	0.86
1:N:14:THR:HG22	1:N:15:VAL:HG22	1.56	0.86
2:l:103:THR:H	2:l:123:PRO:HB3	1.38	0.86
1:J:45:ASP:HB2	1:J:187:LEU:HG	1.53	0.86
2:k:49:MET:HB3	2:k:107:ILE:HG22	1.57	0.86
1:G:38:ALA:HB2	1:G:51:VAL:HG13	1.58	0.86
2:k:96:SER:HB3	2:k:101:PHE:HB2	1.57	0.86
2:m:172:MET:CG	2:m:179:GLY:HA2	2.05	0.86
2:f:187:ILE:HG22	2:f:192:VAL:HG22	1.58	0.86
1:G:182:ARG:C	1:G:184:ASP:H	1.83	0.86
2:k:187:ILE:HG22	2:k:192:VAL:HG22	1.55	0.86
1:D:15:VAL:HG21	1:D:24:GLN:H	1.39	0.86
2:d:83:LEU:HD22	2:d:117:LYS:HE3	1.56	0.86
2:e:101:PHE:HD1	2:e:102:LEU:H	1.21	0.86
1:H:90:ILE:C	1:H:92:ARG:H	1.83	0.86
1:M:22:LEU:HD23	1:M:23:TYR:N	1.89	0.86
2:i:97:ARG:HG3	2:i:98:MET:H	1.41	0.86
2:n:102:LEU:O	2:n:103:THR:HB	1.74	0.86
2:n:103:THR:H	2:n:123:PRO:HB3	1.41	0.86
2:d:18:VAL:HB	2:d:187:ILE:CD1	2.05	0.86
2:i:94:HIS:CD2	2:i:97:ARG:HD3	2.11	0.86
2:i:202:LYS:CG	2:i:203:ILE:HG12	2.05	0.86
2:b:101:PHE:HD1	2:b:102:LEU:H	1.23	0.86
2:l:52:ALA:HB3	2:l:104:GLN:HB2	1.54	0.86
2:m:189:LYS:H	2:m:189:LYS:HE2	1.38	0.86
2:m:202:LYS:HG3	2:m:203:ILE:H	1.37	0.86
1:E:117:ILE:HA	1:E:120:ILE:HD12	1.58	0.85
1:K:15:VAL:HG21	1:K:24:GLN:H	1.41	0.85
1:K:180:GLU:H	1:K:180:GLU:CD	1.84	0.85
1:G:148:ARG:HD2	1:G:160:GLU:OE1	1.76	0.85
2:j:25:ARG:HB2	2:j:180:ASN:H	1.41	0.85
1:A:20:GLY:HA2	1:B:31:ALA:HA	1.58	0.85
1:C:239:LYS:HG3	1:C:240:LYS:HE2	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:53:ARG:HB3	1:C:65:ILE:HD13	1.57	0.85
1:D:26:GLU:HG2	1:D:29:ARG:NE	1.89	0.85
1:G:199:THR:HA	1:G:205:ILE:HD11	1.56	0.85
2:d:189:LYS:CE	2:d:189:LYS:H	1.88	0.85
2:k:103:THR:N	2:k:123:PRO:HB3	1.91	0.85
1:A:68:ILE:HD13	1:A:68:ILE:H	1.40	0.85
1:D:26:GLU:HA	1:D:29:ARG:HG3	1.59	0.85
1:L:53:ARG:HB3	1:L:65:ILE:HD13	1.58	0.85
1:G:117:ILE:HA	1:G:120:ILE:HD12	1.57	0.85
1:H:53:ARG:HB3	1:H:65:ILE:CD1	2.06	0.85
1:N:202:ASN:ND2	1:N:205:ILE:HG23	1.91	0.85
2:h:101:PHE:HD1	2:h:102:LEU:H	1.19	0.85
2:c:103:THR:H	2:c:123:PRO:HB3	1.42	0.85
2:f:18:VAL:HB	2:f:187:ILE:CD1	2.05	0.85
2:g:71:LEU:HD21	2:g:75:ARG:NH1	1.92	0.85
1:N:150:PHE:HE1	1:N:160:GLU:HB2	1.39	0.85
2:c:25:ARG:HD2	2:c:180:ASN:HB2	1.58	0.85
2:c:169:LYS:HZ2	2:c:204:LEU:HD11	1.42	0.84
1:M:53:ARG:HB3	1:M:65:ILE:HD13	1.58	0.84
1:C:121:LYS:HG3	1:C:133:PHE:CD1	2.12	0.84
1:I:26:GLU:HG2	1:I:29:ARG:HE	1.40	0.84
2:m:18:VAL:HB	2:m:187:ILE:CD1	2.07	0.84
2:d:49:MET:HE1	2:d:62:VAL:HA	1.58	0.84
2:f:94:HIS:CD2	2:f:97:ARG:HD3	2.13	0.84
2:d:94:HIS:NE2	2:d:97:ARG:HD3	1.92	0.84
2:i:184:LEU:HB3	2:i:195:PHE:HD1	1.41	0.84
1:F:14:THR:HG22	1:F:15:VAL:CG2	2.07	0.84
1:H:52:ASP:HB2	1:H:198:LEU:HD21	1.59	0.84
1:L:96:GLU:HG2	1:L:116:LYS:HG2	1.59	0.84
2:l:23:ASP:O	2:l:39:LYS:HD2	1.78	0.84
2:a:88:LEU:HB3	2:a:92:ILE:HD11	1.60	0.84
1:N:52:ASP:HB2	1:N:198:LEU:HD21	1.58	0.84
1:D:117:ILE:HA	1:D:120:ILE:HD12	1.57	0.84
2:a:24:LYS:HE2	2:a:183:SER:HB2	1.59	0.84
2:b:97:ARG:HG3	2:b:98:MET:H	1.41	0.84
1:I:170:ARG:HB2	1:I:171:PRO:HD3	1.60	0.84
1:N:68:ILE:HG22	1:N:78:ALA:HB2	1.60	0.84
1:L:90:ILE:C	1:L:92:ARG:H	1.85	0.84
1:L:227:VAL:HA	1:L:230:ILE:HD12	1.60	0.84
2:i:101:PHE:HD1	2:i:102:LEU:H	1.23	0.84
2:d:101:PHE:HD1	2:d:102:LEU:N	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:m:82:PRO:HG2	2:m:83:LEU:HD23	1.60	0.84
1:E:82:LEU:HD11	1:E:134:GLY:HA3	1.58	0.83
1:E:122:GLN:HG2	1:F:84:ALA:HB1	1.59	0.83
2:a:97:ARG:HG3	2:a:98:MET:N	1.93	0.83
2:n:202:LYS:HG3	2:n:203:ILE:N	1.92	0.83
1:C:14:THR:HG22	1:C:15:VAL:HG22	1.57	0.83
1:G:180:GLU:CD	1:G:180:GLU:H	1.87	0.83
1:J:190:GLY:HA2	1:J:193:LEU:HD22	1.59	0.83
1:D:170:ARG:HB2	1:D:171:PRO:HD3	1.59	0.83
2:a:189:LYS:H	2:a:189:LYS:CE	1.91	0.83
2:d:52:ALA:HB3	2:d:104:GLN:HB2	1.60	0.83
2:e:43:ILE:HD11	2:e:47:ILE:HG22	1.58	0.83
2:f:17:ALA:HB1	2:f:187:ILE:O	1.78	0.83
1:D:45:ASP:HB2	1:D:187:LEU:HG	1.60	0.83
1:G:68:ILE:HD13	1:G:68:ILE:N	1.93	0.83
2:e:94:HIS:CD2	2:e:97:ARG:HD3	2.12	0.83
2:f:97:ARG:HG3	2:f:98:MET:H	1.44	0.83
1:M:68:ILE:HD13	1:M:68:ILE:N	1.94	0.83
2:c:169:LYS:NZ	2:c:204:LEU:HD11	1.93	0.83
1:E:71:ILE:O	2:e:74:MET:HE1	1.78	0.83
1:E:82:LEU:H	1:E:82:LEU:HD13	1.42	0.83
2:a:103:THR:H	2:a:123:PRO:CB	1.90	0.83
1:L:14:THR:CG2	1:L:15:VAL:HG22	2.08	0.83
2:m:85:CYS:O	2:m:88:LEU:HB2	1.78	0.83
1:E:148:ARG:HD2	1:E:160:GLU:OE1	1.78	0.83
1:G:48:VAL:CG2	1:G:214:ILE:HG23	2.08	0.83
2:e:18:VAL:CB	2:e:187:ILE:HD11	2.02	0.83
1:K:53:ARG:HB3	1:K:65:ILE:HD13	1.58	0.83
1:B:39:ILE:HG12	1:B:165:ALA:HB2	1.58	0.83
2:l:187:ILE:HG22	2:l:192:VAL:HG22	1.61	0.83
1:D:161:TYR:HA	1:E:60:VAL:HA	1.61	0.83
1:E:170:ARG:HB2	1:E:171:PRO:HD3	1.60	0.83
1:G:26:GLU:HG2	1:G:29:ARG:HE	1.44	0.83
2:e:43:ILE:HD11	2:e:47:ILE:CG2	2.07	0.83
1:L:22:LEU:HD22	1:L:25:VAL:HG13	1.61	0.83
1:C:212:VAL:HB	1:C:225:ILE:HB	1.60	0.82
1:E:188:ASP:HA	1:E:191:LEU:HB2	1.61	0.82
2:k:43:ILE:H	2:k:43:ILE:CD1	1.92	0.82
1:E:53:ARG:HB3	1:E:65:ILE:HD13	1.61	0.82
2:b:24:LYS:HE2	2:b:183:SER:HB2	1.59	0.82
1:I:90:ILE:O	1:I:92:ARG:N	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:180:GLU:CD	1:L:180:GLU:H	1.87	0.82
1:N:170:ARG:HB2	1:N:171:PRO:HD3	1.61	0.82
1:F:41:ILE:HG23	1:F:163:ALA:HB2	1.61	0.82
2:e:17:ALA:HB1	2:e:187:ILE:O	1.79	0.82
2:n:25:ARG:HD2	2:n:180:ASN:HB2	1.62	0.82
2:d:43:ILE:HD13	2:d:43:ILE:H	1.44	0.82
2:d:187:ILE:HG22	2:d:192:VAL:HG22	1.59	0.82
2:g:128:ASN:HD22	2:g:129:GLU:N	1.78	0.82
1:N:26:GLU:HG2	1:N:29:ARG:HE	1.43	0.82
2:b:16:ASP:HB3	2:b:189:LYS:HZ1	1.45	0.82
1:D:53:ARG:HB3	1:D:65:ILE:HD13	1.61	0.82
1:D:153:ASP:O	1:D:155:SER:N	2.12	0.82
1:H:75:VAL:HG22	1:H:141:GLY:HA3	1.62	0.82
1:I:199:THR:HA	1:I:205:ILE:HD11	1.60	0.82
1:A:130:VAL:HG23	1:G:126:GLN:O	1.79	0.82
1:B:22:LEU:HD23	1:B:23:TYR:N	1.94	0.82
2:c:102:LEU:C	2:c:102:LEU:HD22	2.05	0.82
1:J:68:ILE:HD11	1:J:211:ASP:HB3	1.59	0.82
2:i:121:LEU:HD11	2:i:127:MET:HB2	1.62	0.82
1:B:199:THR:HA	1:B:205:ILE:HD11	1.60	0.82
1:C:205:ILE:HD12	1:C:234:ILE:HD11	1.60	0.82
1:J:48:VAL:HG22	1:J:214:ILE:HA	1.62	0.82
1:F:36:THR:HA	1:F:54:ARG:NH1	1.94	0.82
1:F:68:ILE:HG22	1:F:78:ALA:HB2	1.61	0.82
1:I:90:ILE:HD12	1:I:94:ARG:HD2	1.61	0.82
1:J:14:THR:O	1:J:15:VAL:HG13	1.79	0.82
1:J:39:ILE:HG12	1:J:165:ALA:HB2	1.61	0.82
1:N:36:THR:HA	1:N:54:ARG:HH12	1.45	0.82
2:l:97:ARG:HG3	2:l:98:MET:H	1.44	0.82
1:I:68:ILE:HG22	1:I:78:ALA:HB2	1.61	0.82
2:n:24:LYS:HE2	2:n:183:SER:HB2	1.59	0.82
2:i:130:GLU:HG2	2:i:134:THR:HB	1.61	0.81
2:l:88:LEU:O	2:l:92:ILE:HG13	1.80	0.81
2:n:169:LYS:HE3	2:n:204:LEU:HD21	1.60	0.81
1:A:126:GLN:O	1:B:130:VAL:HG23	1.80	0.81
2:n:18:VAL:HB	2:n:187:ILE:HD11	1.61	0.81
1:E:38:ALA:CB	1:E:51:VAL:HG13	2.06	0.81
1:E:214:ILE:HD11	1:E:225:ILE:HG13	1.61	0.81
2:b:49:MET:HE3	2:b:62:VAL:HG22	1.62	0.81
2:e:187:ILE:O	2:e:187:ILE:HD12	1.81	0.81
1:L:68:ILE:HD13	1:L:68:ILE:H	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:94:ARG:NH1	2:l:75:ARG:HA	1.94	0.81
1:L:95:LEU:HD12	2:l:71:LEU:HD11	1.61	0.81
2:m:25:ARG:HH11	2:m:32:VAL:HG21	1.44	0.81
2:m:83:LEU:HD23	2:m:83:LEU:H	1.45	0.81
1:B:39:ILE:HD11	1:B:173:VAL:HG21	1.62	0.81
1:C:226:PRO:HG2	1:C:229:GLU:HG2	1.62	0.81
1:D:82:LEU:HD13	1:D:82:LEU:H	1.43	0.81
1:E:121:LYS:HG3	1:E:133:PHE:CD1	2.14	0.81
2:a:187:ILE:HG23	2:a:192:VAL:HG13	1.62	0.81
2:b:97:ARG:HG3	2:b:98:MET:N	1.92	0.81
2:j:43:ILE:HD13	2:j:43:ILE:H	1.45	0.81
2:l:97:ARG:HG3	2:l:98:MET:N	1.94	0.81
1:D:161:TYR:CE2	1:E:60:VAL:HG22	2.16	0.81
2:a:202:LYS:HG3	2:a:203:ILE:N	1.95	0.81
2:a:52:ALA:HB3	2:a:104:GLN:HB2	1.63	0.81
1:J:90:ILE:HD12	1:J:94:ARG:HD2	1.61	0.81
2:a:96:SER:HB3	2:a:101:PHE:HB2	1.62	0.81
1:I:214:ILE:HD11	1:I:225:ILE:HG13	1.60	0.81
1:B:96:GLU:HG2	1:B:116:LYS:HG2	1.61	0.81
2:n:169:LYS:NZ	2:n:204:LEU:HD11	1.94	0.81
1:I:153:ASP:O	1:I:155:SER:N	2.13	0.81
2:m:102:LEU:HD22	2:m:103:THR:N	1.95	0.81
2:k:82:PRO:HG2	2:k:83:LEU:HD23	1.62	0.81
2:a:7:THR:HG22	2:a:138:SER:H	1.45	0.80
2:d:172:MET:HG2	2:d:179:GLY:HA2	1.61	0.80
1:L:178:GLU:HA	1:M:59:LEU:HD11	1.63	0.80
2:e:94:HIS:NE2	2:e:97:ARG:HD3	1.96	0.80
2:f:121:LEU:HD12	2:f:126:GLY:O	1.82	0.80
1:L:114:ALA:O	1:L:116:LYS:N	2.14	0.80
2:f:184:LEU:HB3	2:f:195:PHE:HD1	1.46	0.80
1:H:188:ASP:HA	1:H:191:LEU:HB2	1.64	0.80
1:I:68:ILE:HD13	1:I:68:ILE:N	1.96	0.80
1:B:75:VAL:HG21	1:B:110:ILE:HG12	1.63	0.80
1:E:48:VAL:HG13	1:E:213:CYS:O	1.82	0.80
1:F:180:GLU:H	1:F:180:GLU:CD	1.88	0.80
1:I:39:ILE:HG12	1:I:165:ALA:HB2	1.63	0.80
1:K:66:GLU:HB3	1:K:69:PHE:CE1	2.17	0.80
1:N:212:VAL:HB	1:N:225:ILE:HB	1.63	0.80
2:a:97:ARG:HG3	2:a:98:MET:H	1.47	0.80
2:g:113:LEU:HG	2:g:114:GLU:N	1.96	0.80
1:L:45:ASP:HB2	1:L:187:LEU:HG	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:75:VAL:HG22	1:B:141:GLY:HA3	1.63	0.80
1:G:52:ASP:HB2	1:G:198:LEU:HD21	1.63	0.80
1:M:36:THR:HA	1:M:54:ARG:HH12	1.46	0.80
2:l:18:VAL:HB	2:l:187:ILE:HD11	1.62	0.80
2:l:18:VAL:HB	2:l:187:ILE:CD1	2.11	0.80
1:E:51:VAL:HG11	1:E:67:LYS:HG3	1.61	0.80
1:J:22:LEU:HD22	1:J:25:VAL:HG13	1.61	0.80
2:k:103:THR:H	2:k:123:PRO:CB	1.95	0.80
2:d:62:VAL:HG12	2:d:66:ILE:HD11	1.61	0.80
1:I:71:ILE:O	2:i:74:MET:HE1	1.82	0.80
1:J:226:PRO:HG2	1:J:229:GLU:HG2	1.62	0.80
1:A:90:ILE:C	1:A:92:ARG:H	1.86	0.80
1:B:26:GLU:HA	1:B:29:ARG:HG3	1.64	0.80
1:B:148:ARG:HD2	1:B:160:GLU:OE1	1.80	0.80
1:E:208:GLU:C	1:E:210:VAL:H	1.87	0.80
2:a:18:VAL:HB	2:a:187:ILE:HD11	1.63	0.80
2:f:15:ASP:OD2	2:f:154:ASP:O	2.00	0.80
1:I:13:ILE:HG12	1:J:13:ILE:HG21	1.62	0.80
1:J:180:GLU:H	1:J:180:GLU:CD	1.90	0.80
2:h:9:THR:HG22	2:h:22:THR:HG22	1.62	0.80
1:A:55:ILE:CD1	1:A:62:ILE:HG23	2.12	0.79
1:D:182:ARG:C	1:D:184:ASP:H	1.90	0.79
1:E:36:THR:HA	1:E:54:ARG:HH12	1.45	0.79
2:g:96:SER:HB3	2:g:101:PHE:HB2	1.64	0.79
1:K:121:LYS:HG3	1:K:133:PHE:CD1	2.17	0.79
2:k:9:THR:HG22	2:k:22:THR:HG22	1.64	0.79
1:D:68:ILE:HD13	1:D:68:ILE:N	1.96	0.79
1:J:199:THR:HA	1:J:205:ILE:HD11	1.63	0.79
1:C:150:PHE:HE1	1:C:160:GLU:HB2	1.48	0.79
1:D:102:LEU:HD11	2:d:64:LEU:HD23	1.63	0.79
1:E:181:TYR:C	1:E:182:ARG:HG3	2.07	0.79
2:d:17:ALA:HB1	2:d:187:ILE:O	1.82	0.79
2:g:49:MET:CE	2:g:62:VAL:HG22	2.12	0.79
1:I:82:LEU:HD11	1:I:134:GLY:HA3	1.62	0.79
1:K:82:LEU:HD22	1:K:82:LEU:H	1.45	0.79
1:A:133:PHE:HE2	1:G:126:GLN:HE22	1.27	0.79
1:H:14:THR:O	1:H:15:VAL:HG13	1.82	0.79
1:H:15:VAL:HG21	1:H:24:GLN:H	1.45	0.79
1:H:68:ILE:HD13	1:H:68:ILE:N	1.97	0.79
2:h:97:ARG:HG3	2:h:98:MET:H	1.45	0.79
1:C:126:GLN:HB3	1:D:131:ARG:CZ	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:14:THR:HG22	1:G:15:VAL:CG2	2.12	0.79
2:h:172:MET:CG	2:h:179:GLY:HA2	2.12	0.79
2:l:187:ILE:HG23	2:l:192:VAL:HG13	1.64	0.79
1:I:238:LYS:N	1:I:238:LYS:HD2	1.97	0.79
2:g:189:LYS:H	2:g:189:LYS:CE	1.95	0.79
1:J:14:THR:HG22	1:J:15:VAL:HG22	1.63	0.79
2:k:189:LYS:H	2:k:189:LYS:CE	1.96	0.79
1:D:239:LYS:HG3	1:D:240:LYS:HE2	1.65	0.79
1:G:238:LYS:HD2	1:G:238:LYS:N	1.98	0.79
1:J:109:SER:HB2	2:k:78:ARG:HH22	1.48	0.79
2:m:113:LEU:HG	2:m:114:GLU:N	1.98	0.79
1:D:188:ASP:HA	1:D:191:LEU:HB2	1.64	0.79
2:b:189:LYS:H	2:b:189:LYS:HE2	1.46	0.79
2:c:12:LEU:HD21	2:c:19:ILE:HB	1.62	0.79
1:L:153:ASP:O	1:L:155:SER:N	2.16	0.79
2:i:65:LEU:C	2:i:65:LEU:HD23	2.08	0.79
2:k:12:LEU:N	2:k:12:LEU:HD23	1.98	0.79
2:l:189:LYS:H	2:l:189:LYS:CE	1.96	0.79
1:F:14:THR:CG2	1:F:15:VAL:HG22	2.12	0.78
1:N:190:GLY:HA2	1:N:193:LEU:HD22	1.64	0.78
2:n:101:PHE:HD1	2:n:102:LEU:H	1.31	0.78
1:D:102:LEU:HD23	1:D:102:LEU:C	2.08	0.78
1:E:155:SER:O	1:F:84:ALA:HB2	1.82	0.78
2:b:49:MET:CE	2:b:62:VAL:HG22	2.12	0.78
2:f:169:LYS:HZ2	2:f:204:LEU:HD11	1.48	0.78
2:h:202:LYS:HG3	2:h:203:ILE:N	1.96	0.78
2:n:7:THR:N	2:n:39:LYS:HE3	1.98	0.78
2:f:88:LEU:HB3	2:f:92:ILE:HD11	1.66	0.78
2:g:65:LEU:HD23	2:g:65:LEU:C	2.08	0.78
2:b:187:ILE:HG23	2:b:192:VAL:HG13	1.65	0.78
2:c:49:MET:HB3	2:c:107:ILE:HG22	1.66	0.78
1:I:205:ILE:HD12	1:I:234:ILE:HD11	1.65	0.78
1:N:121:LYS:HG3	1:N:133:PHE:CD1	2.15	0.78
2:j:102:LEU:HD22	2:j:103:THR:N	1.97	0.78
2:k:188:THR:OG1	2:k:189:LYS:HE3	1.84	0.78
2:l:25:ARG:HB2	2:l:180:ASN:H	1.48	0.78
1:C:150:PHE:CE1	1:C:160:GLU:HB2	2.19	0.78
1:E:14:THR:HG22	1:E:15:VAL:HG22	1.65	0.78
1:F:41:ILE:O	1:F:47:VAL:HG23	1.84	0.78
2:a:187:ILE:HG22	2:a:192:VAL:HG22	1.66	0.78
2:d:97:ARG:HG3	2:d:98:MET:H	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:199:THR:HA	1:C:205:ILE:HD11	1.65	0.78
2:d:102:LEU:O	2:d:103:THR:HB	1.81	0.78
2:f:54:SER:HB2	2:f:102:LEU:HD21	1.64	0.78
2:f:96:SER:HB3	2:f:101:PHE:HB2	1.64	0.78
1:H:212:VAL:HB	1:H:225:ILE:HB	1.64	0.78
1:I:178:GLU:HA	1:J:59:LEU:HD21	1.65	0.78
2:d:189:LYS:H	2:d:189:LYS:HE2	1.49	0.78
1:I:53:ARG:HB3	1:I:65:ILE:HD13	1.65	0.78
1:L:148:ARG:HD2	1:L:160:GLU:OE1	1.84	0.78
2:n:94:HIS:NE2	2:n:97:ARG:HD3	1.98	0.78
1:I:26:GLU:HA	1:I:29:ARG:HG3	1.66	0.78
2:k:102:LEU:O	2:k:103:THR:HB	1.84	0.78
2:e:184:LEU:HB3	2:e:195:PHE:HD1	1.49	0.78
1:H:131:ARG:CZ	1:N:126:GLN:HB3	2.14	0.78
2:n:169:LYS:HZ2	2:n:204:LEU:HD11	1.47	0.78
1:G:153:ASP:O	1:G:155:SER:N	2.17	0.77
1:L:48:VAL:HG22	1:L:214:ILE:HA	1.64	0.77
1:N:68:ILE:HD13	1:N:68:ILE:N	1.99	0.77
1:N:68:ILE:HD11	1:N:211:ASP:OD2	1.83	0.77
2:l:12:LEU:HD21	2:l:19:ILE:HB	1.66	0.77
1:A:66:GLU:HB3	1:A:69:PHE:CE1	2.20	0.77
2:b:202:LYS:HG3	2:b:203:ILE:N	1.99	0.77
1:I:70:GLN:O	1:I:71:ILE:HD13	1.82	0.77
1:M:37:THR:HG23	1:M:52:ASP:HB3	1.64	0.77
2:h:12:LEU:HD21	2:h:19:ILE:HB	1.64	0.77
1:D:70:GLN:HA	1:D:76:ALA:CB	2.14	0.77
1:D:202:ASN:ND2	1:D:205:ILE:HG23	1.99	0.77
1:F:82:LEU:HD13	1:F:82:LEU:H	1.49	0.77
2:e:189:LYS:H	2:e:189:LYS:HE2	1.47	0.77
2:h:25:ARG:HE	2:h:32:VAL:HG13	1.48	0.77
2:k:130:GLU:HG2	2:k:134:THR:HB	1.64	0.77
2:n:103:THR:N	2:n:123:PRO:HB3	2.00	0.77
2:n:189:LYS:HE2	2:n:189:LYS:H	1.48	0.77
1:D:125:THR:HG22	1:E:131:ARG:HE	1.49	0.77
2:b:24:LYS:CE	2:b:183:SER:HB2	2.14	0.77
2:c:101:PHE:HD1	2:c:102:LEU:H	1.30	0.77
2:e:9:THR:HG22	2:e:22:THR:HG22	1.65	0.77
1:L:14:THR:HG22	1:L:15:VAL:CG2	2.13	0.77
2:j:94:HIS:CD2	2:j:97:ARG:HD3	2.19	0.77
1:A:14:THR:CG2	1:A:15:VAL:HG22	2.13	0.77
1:A:160:GLU:HB3	1:B:64:SER:HB3	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:65:ILE:O	1:D:65:ILE:HG12	1.84	0.77
1:G:39:ILE:HD11	1:G:173:VAL:HG21	1.66	0.77
1:G:90:ILE:HD12	1:G:94:ARG:HD2	1.65	0.77
2:g:187:ILE:HG22	2:g:192:VAL:HG22	1.66	0.77
1:M:66:GLU:HB3	1:M:69:PHE:CE1	2.19	0.77
1:C:68:ILE:HG22	1:C:78:ALA:HB2	1.66	0.77
1:E:39:ILE:HG12	1:E:165:ALA:HB2	1.65	0.77
1:F:182:ARG:C	1:F:184:ASP:H	1.91	0.77
1:G:227:VAL:O	1:G:228:GLU:HB2	1.84	0.77
2:e:7:THR:HA	2:e:39:LYS:NZ	1.99	0.77
2:j:83:LEU:HD23	2:j:83:LEU:H	1.47	0.77
2:a:18:VAL:HB	2:a:187:ILE:CD1	2.15	0.77
2:e:49:MET:HE2	2:e:62:VAL:HG13	1.65	0.77
1:M:90:ILE:C	1:M:92:ARG:H	1.92	0.77
2:i:97:ARG:HG3	2:i:98:MET:N	1.99	0.77
1:G:92:ARG:HD2	1:G:92:ARG:O	1.84	0.77
1:H:82:LEU:H	1:H:82:LEU:HD13	1.50	0.77
1:I:152:THR:HA	1:I:157:ALA:HB3	1.65	0.77
1:L:239:LYS:HG3	1:L:240:LYS:HE2	1.65	0.77
2:h:102:LEU:C	2:h:102:LEU:HD22	2.09	0.77
2:i:83:LEU:HD22	2:i:117:LYS:HE3	1.67	0.77
2:m:172:MET:HE3	2:m:179:GLY:C	2.10	0.77
2:n:102:LEU:C	2:n:102:LEU:HD22	2.09	0.77
1:A:95:LEU:HD12	2:a:71:LEU:HD11	1.66	0.77
2:m:184:LEU:HB3	2:m:195:PHE:HD1	1.48	0.77
2:b:172:MET:HG2	2:b:179:GLY:HA2	1.65	0.77
2:d:102:LEU:HD22	2:d:102:LEU:C	2.10	0.77
1:H:59:LEU:HD11	1:N:178:GLU:HA	1.65	0.77
2:i:120:SER:O	2:i:121:LEU:HD13	1.84	0.77
2:m:43:ILE:HD13	2:m:43:ILE:H	1.48	0.77
1:B:160:GLU:HB3	1:C:64:SER:HB3	1.67	0.76
2:a:23:ASP:O	2:a:39:LYS:HD2	1.85	0.76
1:K:38:ALA:HB2	1:K:51:VAL:HG13	1.65	0.76
1:M:82:LEU:H	1:M:82:LEU:HD13	1.49	0.76
1:N:199:THR:HA	1:N:205:ILE:HD11	1.66	0.76
2:k:161:ILE:O	2:k:165:LEU:HG	1.85	0.76
2:m:52:ALA:HB3	2:m:104:GLN:HB2	1.67	0.76
1:J:96:GLU:HG2	1:J:116:LYS:HG2	1.67	0.76
2:h:18:VAL:HB	2:h:187:ILE:CD1	2.15	0.76
1:F:212:VAL:HB	1:F:225:ILE:HB	1.66	0.76
1:M:14:THR:O	1:M:15:VAL:HG13	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h:25:ARG:HE	2:h:32:VAL:CG1	1.98	0.76
2:f:101:PHE:HD1	2:f:102:LEU:H	1.32	0.76
1:J:153:ASP:O	1:J:155:SER:N	2.17	0.76
1:K:82:LEU:HD13	1:K:82:LEU:N	2.00	0.76
1:B:82:LEU:H	1:B:82:LEU:HD13	1.49	0.76
1:C:152:THR:HA	1:C:157:ALA:HB3	1.66	0.76
2:e:135:ALA:N	2:e:144:TYR:HE1	1.84	0.76
1:I:126:GLN:HE22	1:J:133:PHE:HE2	1.31	0.76
1:L:90:ILE:O	1:L:92:ARG:N	2.19	0.76
2:l:96:SER:CB	2:l:101:PHE:HB2	2.14	0.76
1:B:142:ILE:HG23	1:B:217:VAL:HG23	1.66	0.76
1:I:39:ILE:HD11	1:I:173:VAL:HG21	1.66	0.76
1:J:14:THR:HG22	1:J:15:VAL:CG2	2.15	0.76
1:D:82:LEU:HD11	1:D:134:GLY:HA3	1.66	0.76
2:h:35:LYS:O	2:h:36:GLU:HG3	1.86	0.76
2:l:83:LEU:HD22	2:l:117:LYS:HE3	1.66	0.76
2:n:9:THR:HG22	2:n:22:THR:HG22	1.67	0.76
1:D:70:GLN:HA	1:D:76:ALA:HB2	1.67	0.76
1:G:39:ILE:HG12	1:G:165:ALA:HB2	1.68	0.76
1:G:90:ILE:C	1:G:92:ARG:H	1.92	0.76
2:a:188:THR:OG1	2:a:189:LYS:HE3	1.85	0.76
2:b:7:THR:N	2:b:39:LYS:HE3	2.01	0.76
2:j:165:LEU:HD21	2:j:184:LEU:HD12	1.67	0.76
1:E:14:THR:O	1:E:15:VAL:HG13	1.85	0.76
1:F:90:ILE:C	1:F:92:ARG:H	1.94	0.76
1:F:126:GLN:O	1:G:130:VAL:HG23	1.86	0.76
1:H:14:THR:HG22	1:H:15:VAL:HG22	1.68	0.76
2:g:7:THR:N	2:g:39:LYS:HE3	2.01	0.76
2:i:102:LEU:C	2:i:102:LEU:HD22	2.10	0.76
1:D:160:GLU:OE1	1:E:61:LYS:HD3	1.85	0.75
2:b:54:SER:OG	2:b:57:ASP:HB2	1.86	0.75
1:J:83:VAL:HA	1:J:86:ALA:HB2	1.67	0.75
1:J:226:PRO:HG2	1:J:229:GLU:CG	2.14	0.75
1:L:68:ILE:HG22	1:L:78:ALA:HB2	1.68	0.75
2:h:103:THR:H	2:h:123:PRO:HB3	1.48	0.75
2:j:141:PRO:HA	2:j:144:TYR:HB2	1.68	0.75
2:k:62:VAL:HG12	2:k:66:ILE:HD11	1.69	0.75
2:m:135:ALA:H	2:m:144:TYR:HE1	1.33	0.75
1:C:186:THR:OG1	1:C:189:GLU:HB2	1.85	0.75
1:D:52:ASP:HB2	1:D:198:LEU:HD21	1.67	0.75
2:a:9:THR:OG1	2:a:136:THR:HG23	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:48:VAL:CG2	1:I:214:ILE:HG23	2.16	0.75
1:M:212:VAL:HG11	1:M:225:ILE:HD12	1.68	0.75
2:l:13:ILE:HG12	2:l:18:VAL:HG22	1.68	0.75
1:K:92:ARG:O	1:K:92:ARG:HD2	1.87	0.75
2:i:31:LEU:HD12	2:i:32:VAL:H	1.52	0.75
2:k:20:LEU:O	2:k:184:LEU:HD23	1.85	0.75
1:N:82:LEU:HD13	1:N:82:LEU:H	1.50	0.75
1:A:50:ALA:HA	1:A:211:ASP:O	1.85	0.75
1:C:90:ILE:C	1:C:92:ARG:H	1.93	0.75
1:J:68:ILE:HG22	1:J:78:ALA:HB2	1.67	0.75
1:K:106:GLU:OE2	2:l:81:PRO:HG2	1.86	0.75
1:E:90:ILE:C	1:E:92:ARG:H	1.94	0.75
1:F:96:GLU:HG2	1:F:116:LYS:HG2	1.69	0.75
1:F:153:ASP:O	1:F:155:SER:N	2.19	0.75
2:d:69:ALA:O	2:d:71:LEU:N	2.15	0.75
2:g:43:ILE:H	2:g:43:ILE:CD1	1.97	0.75
1:H:24:GLN:OE1	1:N:16:PHE:HB3	1.86	0.75
1:K:100:TYR:CE2	1:K:108:ILE:HA	2.22	0.75
1:K:192:GLU:HA	1:K:195:ILE:HD12	1.67	0.75
1:N:14:THR:O	1:N:15:VAL:HG13	1.86	0.75
2:m:88:LEU:O	2:m:92:ILE:HG13	1.87	0.75
2:a:146:VAL:HG21	2:a:167:ALA:HA	1.68	0.75
2:d:78:ARG:HB3	2:d:112:LEU:HD11	1.68	0.75
2:j:189:LYS:H	2:j:189:LYS:HE2	1.51	0.75
2:n:12:LEU:HD21	2:n:19:ILE:HB	1.66	0.75
1:B:68:ILE:HG22	1:B:78:ALA:HB2	1.67	0.75
2:d:54:SER:HB2	2:d:102:LEU:HD21	1.69	0.75
2:d:96:SER:HA	2:d:99:PHE:HB2	1.69	0.75
1:H:53:ARG:HB3	1:H:65:ILE:HD13	1.67	0.75
1:J:26:GLU:HA	1:J:29:ARG:HG3	1.69	0.75
1:K:15:VAL:HB	1:K:23:TYR:HB2	1.69	0.75
2:i:16:ASP:HB3	2:i:189:LYS:HZ2	1.52	0.75
1:A:20:GLY:HA2	1:B:31:ALA:CA	2.16	0.75
1:G:214:ILE:N	1:G:214:ILE:HD12	2.01	0.75
2:b:52:ALA:HB3	2:b:104:GLN:HB2	1.68	0.75
2:f:94:HIS:O	2:f:97:ARG:HG2	1.87	0.75
1:A:68:ILE:HG22	1:A:78:ALA:HB2	1.69	0.74
1:D:180:GLU:CD	1:D:180:GLU:H	1.94	0.74
1:E:82:LEU:HD13	1:E:82:LEU:N	2.01	0.74
2:e:121:LEU:HD11	2:e:127:MET:HB2	1.69	0.74
1:H:64:SER:HB3	1:N:160:GLU:HB3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:82:LEU:HD13	1:H:82:LEU:N	2.02	0.74
1:M:160:GLU:HB3	1:N:64:SER:HB3	1.68	0.74
2:k:46:TYR:C	2:k:47:ILE:HD12	2.12	0.74
1:B:231:LYS:O	1:B:234:ILE:HG22	1.85	0.74
1:C:137:LEU:HB2	1:C:152:THR:OG1	1.87	0.74
2:c:20:LEU:O	2:c:184:LEU:HD23	1.87	0.74
2:g:49:MET:HE3	2:g:62:VAL:HG22	1.68	0.74
1:J:160:GLU:HB3	1:K:64:SER:HB3	1.69	0.74
1:J:214:ILE:HD12	1:J:214:ILE:N	2.02	0.74
1:N:207:PRO:O	1:N:208:GLU:HG3	1.87	0.74
2:h:13:ILE:HG12	2:h:18:VAL:HG22	1.68	0.74
2:l:202:LYS:HG3	2:l:203:ILE:N	2.02	0.74
1:B:68:ILE:HD13	1:B:68:ILE:N	2.01	0.74
2:b:102:LEU:HD22	2:b:103:THR:N	2.02	0.74
1:K:148:ARG:HD2	1:K:160:GLU:OE1	1.87	0.74
1:K:170:ARG:HB2	1:K:171:PRO:HD3	1.67	0.74
1:G:53:ARG:HB3	1:G:65:ILE:CD1	2.17	0.74
2:j:172:MET:HG2	2:j:179:GLY:CA	2.17	0.74
2:n:97:ARG:HG3	2:n:98:MET:H	1.51	0.74
1:E:126:GLN:O	1:F:130:VAL:HG23	1.86	0.74
2:b:172:MET:CG	2:b:179:GLY:HA2	2.18	0.74
1:I:16:PHE:HB3	1:J:24:GLN:OE1	1.86	0.74
1:N:90:ILE:C	1:N:92:ARG:H	1.95	0.74
1:A:226:PRO:HG2	1:A:229:GLU:HG2	1.70	0.74
1:C:238:LYS:N	1:C:238:LYS:HD2	2.01	0.74
1:D:82:LEU:HD13	1:D:82:LEU:N	2.03	0.74
1:G:231:LYS:O	1:G:234:ILE:HG22	1.88	0.74
2:a:43:ILE:HG22	2:a:66:ILE:HG12	1.68	0.74
2:e:72:TYR:HD2	2:e:72:TYR:C	1.95	0.74
1:H:173:VAL:O	1:H:177:LEU:HD13	1.88	0.74
2:h:18:VAL:HB	2:h:187:ILE:HD11	1.70	0.74
2:m:97:ARG:HG3	2:m:98:MET:N	1.96	0.74
2:n:82:PRO:HG2	2:n:83:LEU:HD23	1.69	0.74
1:F:122:GLN:O	1:F:125:THR:HB	1.88	0.74
2:e:187:ILE:HG22	2:e:192:VAL:HG22	1.69	0.74
2:h:102:LEU:HD22	2:h:103:THR:N	2.02	0.74
2:l:103:THR:N	2:l:123:PRO:HB3	2.02	0.74
1:B:126:GLN:O	1:C:130:VAL:HG23	1.87	0.74
2:i:102:LEU:HD22	2:i:103:THR:N	2.02	0.74
2:k:140:SER:N	2:k:141:PRO:HD2	2.02	0.74
2:b:169:LYS:NZ	2:b:204:LEU:HD11	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:d:202:LYS:HG3	2:d:203:ILE:N	2.02	0.74
1:M:180:GLU:H	1:M:180:GLU:CD	1.96	0.74
1:F:90:ILE:HD12	1:F:94:ARG:HD2	1.69	0.74
2:d:132:THR:HB	2:d:133:PHE:HD1	1.53	0.74
2:f:25:ARG:HB2	2:f:180:ASN:H	1.53	0.74
1:H:68:ILE:HG22	1:H:78:ALA:HB2	1.69	0.74
1:K:36:THR:HA	1:K:54:ARG:HH12	1.51	0.74
1:N:57:SER:OG	1:N:59:LEU:HD13	1.87	0.74
2:h:20:LEU:O	2:h:184:LEU:HD23	1.87	0.74
2:k:97:ARG:C	2:k:99:PHE:H	1.94	0.74
2:k:146:VAL:HG21	2:k:167:ALA:HA	1.70	0.74
1:C:15:VAL:HG21	1:C:24:GLN:H	1.52	0.73
1:D:212:VAL:HB	1:D:225:ILE:HB	1.68	0.73
2:a:188:THR:O	2:a:189:LYS:C	2.30	0.73
1:N:14:THR:HG22	1:N:15:VAL:CG2	2.17	0.73
1:N:71:ILE:HG21	1:N:113:LEU:HD21	1.70	0.73
2:j:172:MET:HE3	2:j:179:GLY:HA2	1.69	0.73
2:l:24:LYS:HE2	2:l:183:SER:HB2	1.69	0.73
2:b:137:GLY:O	2:b:138:SER:C	2.31	0.73
2:m:88:LEU:C	2:m:92:ILE:HG13	2.13	0.73
1:D:102:LEU:HD11	2:d:64:LEU:CD2	2.18	0.73
1:M:14:THR:HG22	1:M:15:VAL:CG2	2.19	0.73
1:N:22:LEU:HD22	1:N:25:VAL:HG13	1.69	0.73
2:h:43:ILE:HD13	2:h:43:ILE:H	1.52	0.73
2:j:176:THR:HG1	2:j:177:PHE:HD2	1.35	0.73
1:B:14:THR:HG22	1:B:15:VAL:CG2	2.16	0.73
1:D:121:LYS:HG3	1:D:133:PHE:HD1	1.51	0.73
2:g:19:ILE:O	2:g:20:LEU:HD23	1.88	0.73
1:K:182:ARG:C	1:K:184:ASP:H	1.95	0.73
2:i:189:LYS:HE2	2:i:189:LYS:H	1.53	0.73
1:C:68:ILE:HD11	1:C:211:ASP:OD2	1.89	0.73
1:F:238:LYS:N	1:F:238:LYS:HD2	2.04	0.73
2:e:72:TYR:C	2:e:72:TYR:CD2	2.64	0.73
2:i:23:ASP:O	2:i:39:LYS:HD2	1.88	0.73
1:B:53:ARG:HB3	1:B:65:ILE:CD1	2.19	0.73
1:E:16:PHE:HB3	1:F:24:GLN:OE1	1.87	0.73
1:E:94:ARG:NH1	2:e:75:ARG:HA	2.04	0.73
1:E:153:ASP:O	1:E:155:SER:N	2.22	0.73
2:a:102:LEU:HA	2:a:123:PRO:HB3	1.70	0.73
2:i:172:MET:HG2	2:i:179:GLY:HA2	1.70	0.73
1:A:84:ALA:HB2	1:G:155:SER:O	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:160:GLU:CB	1:B:64:SER:HB3	2.19	0.73
1:E:180:GLU:H	1:E:180:GLU:CD	1.96	0.73
1:K:199:THR:HA	1:K:205:ILE:CD1	2.17	0.73
2:c:44:ASP:HB3	2:c:47:ILE:HD13	1.69	0.73
2:e:62:VAL:HG12	2:e:66:ILE:HD11	1.70	0.73
1:K:48:VAL:HG22	1:K:214:ILE:HA	1.71	0.73
1:M:50:ALA:HA	1:M:211:ASP:O	1.88	0.73
1:M:94:ARG:NH1	2:m:75:ARG:HA	2.04	0.73
2:i:18:VAL:HB	2:i:187:ILE:CD1	2.15	0.73
2:i:62:VAL:HG12	2:i:66:ILE:HD11	1.71	0.73
2:m:10:VAL:HG23	2:m:21:ALA:HB3	1.71	0.73
1:C:207:PRO:O	1:C:208:GLU:HG3	1.89	0.73
2:c:113:LEU:HG	2:c:114:GLU:N	2.02	0.73
1:L:82:LEU:HD13	1:L:82:LEU:H	1.54	0.73
1:L:126:GLN:O	1:M:130:VAL:HG23	1.89	0.73
2:h:25:ARG:HH11	2:h:32:VAL:HG21	1.54	0.73
2:i:49:MET:HE2	2:i:62:VAL:HG13	1.70	0.73
2:j:9:THR:OG1	2:j:136:THR:HG23	1.88	0.73
1:A:161:TYR:CE2	1:B:60:VAL:HG22	2.23	0.73
1:B:121:LYS:HG3	1:B:133:PHE:CD1	2.23	0.73
1:L:55:ILE:HD11	1:L:62:ILE:HG23	1.71	0.73
1:N:180:GLU:H	1:N:180:GLU:CD	1.97	0.73
1:K:49:LEU:HD23	1:K:78:ALA:HB2	1.68	0.72
2:h:202:LYS:O	2:h:205:ASP:HB2	1.88	0.72
2:m:54:SER:HB2	2:m:102:LEU:HD21	1.71	0.72
1:D:53:ARG:HB3	1:D:65:ILE:CD1	2.19	0.72
1:E:43:CYS:HB3	1:E:185:ILE:HD11	1.70	0.72
1:E:57:SER:OG	1:E:59:LEU:HD13	1.89	0.72
1:E:102:LEU:HD23	1:E:102:LEU:C	2.15	0.72
1:G:141:GLY:O	1:G:142:ILE:HD13	1.89	0.72
2:k:187:ILE:HG23	2:k:192:VAL:HG13	1.69	0.72
2:n:187:ILE:HG23	2:n:192:VAL:HG13	1.70	0.72
1:A:14:THR:HG22	1:A:15:VAL:CG2	2.17	0.72
1:A:55:ILE:HD11	1:A:62:ILE:HG23	1.72	0.72
1:C:190:GLY:HA2	1:C:193:LEU:HD22	1.71	0.72
2:f:37:ALA:HA	2:g:128:ASN:OD1	1.89	0.72
1:I:153:ASP:C	1:I:155:SER:H	1.97	0.72
1:M:238:LYS:HD2	1:M:238:LYS:N	2.03	0.72
2:i:113:LEU:HG	2:i:114:GLU:N	2.04	0.72
2:k:18:VAL:HB	2:k:187:ILE:CD1	2.20	0.72
2:b:184:LEU:HB3	2:b:195:PHE:HD1	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:d:13:ILE:HG12	2:d:18:VAL:HG22	1.71	0.72
2:k:74:MET:O	2:k:76:THR:N	2.22	0.72
1:B:53:ARG:HB3	1:B:65:ILE:HD13	1.72	0.72
1:B:189:GLU:O	1:B:193:LEU:HD13	1.90	0.72
1:C:32:VAL:HG11	1:C:170:ARG:HH21	1.55	0.72
1:F:53:ARG:HB3	1:F:65:ILE:CD1	2.19	0.72
1:F:190:GLY:CA	1:F:193:LEU:HD22	2.15	0.72
2:c:31:LEU:HD12	2:c:32:VAL:H	1.54	0.72
1:J:68:ILE:HG13	1:J:213:CYS:SG	2.30	0.72
1:M:226:PRO:HG2	1:M:229:GLU:HG2	1.71	0.72
2:j:184:LEU:HD23	2:j:185:ALA:N	2.04	0.72
1:D:207:PRO:O	1:D:208:GLU:CG	2.36	0.72
2:a:88:LEU:O	2:a:92:ILE:HG13	1.89	0.72
2:f:97:ARG:HG3	2:f:98:MET:N	2.02	0.72
1:K:153:ASP:O	1:K:155:SER:N	2.22	0.72
1:N:231:LYS:O	1:N:235:GLU:HG2	1.89	0.72
2:h:49:MET:HE1	2:h:62:VAL:HA	1.71	0.72
2:h:83:LEU:HD22	2:h:117:LYS:HE3	1.71	0.72
2:n:88:LEU:HB3	2:n:92:ILE:HD11	1.70	0.72
1:C:38:ALA:HB2	1:C:51:VAL:HG13	1.70	0.72
2:c:7:THR:HA	2:c:39:LYS:NZ	2.05	0.72
2:h:102:LEU:HA	2:h:123:PRO:HB3	1.69	0.72
2:h:187:ILE:HG23	2:h:192:VAL:HG13	1.70	0.72
2:j:102:LEU:HD22	2:j:103:THR:CA	2.20	0.72
2:j:121:LEU:HD11	2:j:127:MET:HE3	1.70	0.72
2:l:14:CYS:SG	2:l:155:MET:HG3	2.29	0.72
1:A:45:ASP:OD1	1:A:186:THR:HB	1.89	0.72
1:H:227:VAL:HA	1:H:230:ILE:HD12	1.70	0.72
1:I:53:ARG:HB3	1:I:65:ILE:CD1	2.20	0.72
1:B:90:ILE:C	1:B:92:ARG:H	1.97	0.72
2:f:172:MET:CG	2:f:179:GLY:HA2	2.19	0.72
2:g:120:SER:O	2:g:121:LEU:HD13	1.90	0.72
2:l:102:LEU:HA	2:l:123:PRO:HB3	1.71	0.72
2:n:49:MET:HE3	2:n:62:VAL:HG22	1.71	0.72
1:A:92:ARG:O	1:A:92:ARG:HD2	1.89	0.72
1:E:102:LEU:HD23	1:E:102:LEU:O	1.90	0.72
1:E:152:THR:HA	1:E:157:ALA:HB3	1.72	0.72
1:F:22:LEU:HD22	1:F:25:VAL:HG13	1.71	0.72
1:F:181:TYR:CE1	1:F:185:ILE:HG12	2.25	0.72
2:a:102:LEU:C	2:a:102:LEU:HD22	2.15	0.72
2:b:8:THR:HA	2:b:137:GLY:HA3	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:49:MET:HB3	2:b:107:ILE:HG22	1.72	0.72
2:e:172:MET:CG	2:e:179:GLY:HA2	2.19	0.72
1:I:14:THR:HG22	1:I:15:VAL:CG2	2.20	0.72
1:M:226:PRO:HG2	1:M:229:GLU:CG	2.19	0.72
2:i:52:ALA:HB3	2:i:104:GLN:HB2	1.71	0.72
2:i:121:LEU:CD1	2:i:127:MET:HB2	2.20	0.72
1:E:68:ILE:HD13	1:E:68:ILE:N	2.05	0.71
2:b:88:LEU:O	2:b:92:ILE:HG13	1.88	0.71
2:c:172:MET:CB	2:c:179:GLY:HA2	2.20	0.71
2:g:102:LEU:HA	2:g:123:PRO:HB3	1.72	0.71
1:M:102:LEU:HD23	1:M:102:LEU:C	2.15	0.71
2:i:172:MET:HE3	2:i:179:GLY:C	2.15	0.71
2:m:24:LYS:HE2	2:m:183:SER:HB2	1.71	0.71
1:A:161:TYR:HE2	1:B:60:VAL:HG22	1.53	0.71
1:B:52:ASP:HB2	1:B:198:LEU:HD21	1.71	0.71
1:E:75:VAL:HG21	1:E:110:ILE:HG12	1.71	0.71
1:G:48:VAL:HG22	1:G:214:ILE:HA	1.73	0.71
2:d:25:ARG:HH11	2:d:32:VAL:HG21	1.55	0.71
2:g:9:THR:HG22	2:g:22:THR:HG22	1.70	0.71
1:J:26:GLU:HG2	1:J:29:ARG:HE	1.55	0.71
2:h:106:ILE:HD11	2:h:136:THR:HG22	1.72	0.71
2:k:40:LEU:HD13	2:k:50:THR:HG22	1.70	0.71
2:l:172:MET:HG2	2:l:179:GLY:HA2	1.72	0.71
1:C:94:ARG:NH1	2:c:75:ARG:HA	2.06	0.71
2:a:137:GLY:O	2:a:138:SER:C	2.33	0.71
2:e:172:MET:HG2	2:e:179:GLY:HA2	1.73	0.71
1:J:50:ALA:HA	1:J:211:ASP:O	1.91	0.71
1:N:182:ARG:C	1:N:184:ASP:H	1.99	0.71
2:l:17:ALA:HB1	2:l:187:ILE:O	1.89	0.71
2:l:54:SER:OG	2:l:57:ASP:HB2	1.89	0.71
1:C:41:ILE:HG23	1:C:163:ALA:HB2	1.72	0.71
2:e:172:MET:HE3	2:e:179:GLY:C	2.15	0.71
1:L:36:THR:OG1	1:L:67:LYS:HE2	1.90	0.71
2:j:69:ALA:HA	2:j:80:ILE:HG12	1.70	0.71
1:C:226:PRO:HG2	1:C:229:GLU:CG	2.20	0.71
1:C:227:VAL:HA	1:C:230:ILE:HD12	1.70	0.71
2:a:13:ILE:HG12	2:a:18:VAL:HG22	1.73	0.71
2:a:49:MET:HE3	2:a:62:VAL:HG22	1.72	0.71
2:f:101:PHE:HD1	2:f:102:LEU:N	1.88	0.71
1:H:26:GLU:HA	1:H:29:ARG:HG3	1.72	0.71
2:k:17:ALA:HB1	2:k:187:ILE:O	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:m:140:SER:N	2:m:141:PRO:HD2	2.06	0.71
2:b:88:LEU:C	2:b:92:ILE:HG13	2.15	0.71
1:H:37:THR:HG23	1:H:52:ASP:HB3	1.73	0.71
2:k:102:LEU:C	2:k:102:LEU:HD22	2.15	0.71
2:l:52:ALA:HB3	2:l:104:GLN:CB	2.20	0.71
2:a:102:LEU:O	2:a:103:THR:HB	1.90	0.71
2:d:135:ALA:H	2:d:144:TYR:HE1	1.36	0.71
2:e:189:LYS:H	2:e:189:LYS:CE	2.03	0.71
2:f:12:LEU:HD23	2:f:12:LEU:N	2.06	0.71
2:g:83:LEU:HB3	2:g:119:PHE:CZ	2.26	0.71
1:H:180:GLU:H	1:H:180:GLU:CD	1.97	0.71
1:B:63:ARG:N	1:B:63:ARG:HD3	2.06	0.71
1:B:188:ASP:HA	1:B:191:LEU:HB2	1.72	0.71
2:c:202:LYS:HG3	2:c:203:ILE:N	2.05	0.71
2:g:97:ARG:C	2:g:99:PHE:H	1.97	0.71
1:H:22:LEU:HD23	1:H:23:TYR:N	2.05	0.71
1:J:90:ILE:C	1:J:92:ARG:H	1.99	0.71
1:K:90:ILE:C	1:K:92:ARG:H	1.98	0.71
1:N:38:ALA:HB2	1:N:51:VAL:HG13	1.73	0.71
2:h:97:ARG:HG3	2:h:98:MET:N	2.03	0.71
2:m:49:MET:HE3	2:m:62:VAL:HG22	1.73	0.71
1:D:96:GLU:HG2	1:D:116:LYS:CG	2.20	0.71
1:F:160:GLU:HB3	1:G:64:SER:HB3	1.72	0.71
2:b:130:GLU:HG2	2:b:134:THR:HB	1.72	0.71
1:J:87:ARG:O	1:J:90:ILE:N	2.23	0.71
1:K:231:LYS:O	1:K:234:ILE:HG22	1.90	0.71
2:j:43:ILE:HD11	2:j:47:ILE:CG2	2.21	0.71
2:n:79:ASN:O	2:n:80:ILE:C	2.32	0.71
1:C:22:LEU:HD23	1:C:23:TYR:N	2.06	0.71
1:C:39:ILE:HG12	1:C:165:ALA:HB2	1.72	0.71
1:E:192:GLU:HA	1:E:195:ILE:HD12	1.71	0.71
2:e:97:ARG:HG3	2:e:98:MET:N	2.06	0.71
2:f:103:THR:H	2:f:123:PRO:HB3	1.54	0.71
1:J:228:GLU:OE1	1:J:231:LYS:HD3	1.91	0.71
1:K:160:GLU:HB3	1:L:64:SER:HB3	1.71	0.71
1:G:188:ASP:HA	1:G:191:LEU:HB2	1.73	0.70
2:b:82:PRO:HG2	2:b:83:LEU:HD23	1.71	0.70
2:e:49:MET:CE	2:e:62:VAL:HG22	2.21	0.70
2:l:165:LEU:HD21	2:l:184:LEU:HD12	1.72	0.70
1:F:110:ILE:HG13	1:F:143:ASP:HB2	1.72	0.70
2:c:97:ARG:HG3	2:c:98:MET:N	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e:23:ASP:O	2:e:39:LYS:HD2	1.90	0.70
2:g:9:THR:OG1	2:g:136:THR:HG23	1.91	0.70
1:H:231:LYS:O	1:H:234:ILE:HG22	1.89	0.70
1:L:75:VAL:HG21	1:L:110:ILE:HG12	1.72	0.70
1:A:53:ARG:HB3	1:A:65:ILE:HD13	1.72	0.70
2:g:102:LEU:HD22	2:g:103:THR:N	2.05	0.70
1:L:14:THR:HG22	1:L:15:VAL:N	2.05	0.70
2:j:83:LEU:HB3	2:j:119:PHE:HZ	1.55	0.70
1:A:239:LYS:HG3	1:A:240:LYS:HE2	1.71	0.70
1:C:14:THR:O	1:C:15:VAL:HG13	1.90	0.70
1:C:36:THR:HA	1:C:54:ARG:NH1	2.03	0.70
2:a:184:LEU:HB3	2:a:195:PHE:HD1	1.56	0.70
2:b:19:ILE:O	2:b:20:LEU:HD23	1.91	0.70
2:d:9:THR:HG22	2:d:22:THR:HG22	1.74	0.70
2:f:63:ARG:C	2:f:65:LEU:H	2.00	0.70
1:L:55:ILE:CD1	1:L:62:ILE:HG23	2.21	0.70
2:h:96:SER:HA	2:h:99:PHE:HB2	1.73	0.70
2:m:80:ILE:HD12	2:m:80:ILE:N	2.06	0.70
2:c:146:VAL:HG21	2:c:167:ALA:HA	1.74	0.70
1:I:45:ASP:HB2	1:I:187:LEU:HG	1.73	0.70
2:h:12:LEU:CD2	2:h:19:ILE:HB	2.21	0.70
2:h:146:VAL:HG21	2:h:167:ALA:HA	1.73	0.70
2:i:7:THR:HA	2:i:39:LYS:NZ	2.05	0.70
1:E:89:LEU:HD21	1:E:133:PHE:CD1	2.27	0.70
1:G:42:ALA:O	1:G:43:CYS:HB3	1.90	0.70
2:f:52:ALA:HB3	2:f:104:GLN:HB2	1.72	0.70
1:L:38:ALA:HB2	1:L:51:VAL:HG13	1.72	0.70
1:A:68:ILE:N	1:A:68:ILE:CD1	2.52	0.70
1:B:77:ALA:HB2	1:B:139:ILE:HG23	1.74	0.70
2:c:49:MET:HE1	2:c:62:VAL:HA	1.73	0.70
2:e:113:LEU:HG	2:e:114:GLU:N	2.06	0.70
2:i:187:ILE:HG23	2:i:192:VAL:HG13	1.73	0.70
2:j:121:LEU:HD11	2:j:127:MET:CE	2.22	0.70
2:k:121:LEU:HD12	2:k:126:GLY:O	1.92	0.70
2:n:69:ALA:HA	2:n:80:ILE:HG12	1.73	0.70
1:B:180:GLU:H	1:B:180:GLU:CD	1.98	0.70
2:c:96:SER:HA	2:c:99:PHE:HB2	1.74	0.70
2:d:140:SER:H	2:d:141:PRO:HD2	1.57	0.70
1:H:84:ALA:O	1:N:122:GLN:HG3	1.91	0.70
1:L:68:ILE:N	1:L:68:ILE:CD1	2.53	0.70
1:N:39:ILE:HG12	1:N:165:ALA:HB2	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h:189:LYS:H	2:h:189:LYS:HE2	1.56	0.70
2:j:7:THR:N	2:j:39:LYS:HE3	2.07	0.70
2:l:146:VAL:HG21	2:l:167:ALA:HA	1.73	0.70
1:E:68:ILE:HD11	1:E:211:ASP:OD2	1.90	0.70
2:c:102:LEU:HD22	2:c:103:THR:N	2.07	0.70
2:c:103:THR:N	2:c:123:PRO:HB3	2.05	0.70
2:d:40:LEU:CD1	2:d:50:THR:HG22	2.21	0.70
2:g:88:LEU:O	2:g:92:ILE:HG13	1.90	0.70
1:H:170:ARG:HB2	1:H:171:PRO:HD3	1.71	0.70
2:h:7:THR:N	2:h:39:LYS:HE3	2.06	0.70
2:m:172:MET:HG2	2:m:179:GLY:CA	2.21	0.70
2:m:189:LYS:H	2:m:189:LYS:CE	2.05	0.70
1:E:80:SER:HB3	1:E:166:ILE:HD12	1.74	0.70
1:G:212:VAL:HB	1:G:225:ILE:HB	1.74	0.70
2:c:43:ILE:H	2:c:43:ILE:CD1	2.02	0.70
2:e:96:SER:CB	2:e:101:PHE:HB2	2.17	0.70
1:H:53:ARG:HB3	1:H:65:ILE:HD11	1.73	0.70
1:K:227:VAL:O	1:K:228:GLU:HB2	1.91	0.70
1:D:173:VAL:C	1:D:175:GLU:H	1.99	0.69
1:J:82:LEU:HD13	1:J:82:LEU:N	2.07	0.69
1:L:114:ALA:C	1:L:116:LYS:H	2.00	0.69
1:M:75:VAL:HG21	1:M:110:ILE:HG12	1.74	0.69
2:j:188:THR:O	2:j:189:LYS:C	2.35	0.69
2:l:83:LEU:HB3	2:l:119:PHE:CZ	2.27	0.69
2:m:54:SER:OG	2:m:57:ASP:HB2	1.92	0.69
1:E:22:LEU:HD22	1:E:25:VAL:HG23	1.72	0.69
2:c:85:CYS:O	2:c:88:LEU:HB2	1.91	0.69
2:c:104:GLN:O	2:c:105:ILE:HG13	1.92	0.69
2:c:172:MET:HB3	2:c:179:GLY:HA2	1.73	0.69
2:f:49:MET:HE2	2:f:62:VAL:HG13	1.73	0.69
2:f:96:SER:CB	2:f:101:PHE:HB2	2.21	0.69
2:k:97:ARG:HG3	2:k:98:MET:N	2.07	0.69
2:k:101:PHE:HD1	2:k:102:LEU:H	1.37	0.69
1:D:52:ASP:HB2	1:D:198:LEU:HD11	1.72	0.69
1:E:66:GLU:CD	1:E:69:PHE:HE1	2.00	0.69
2:d:172:MET:CG	2:d:179:GLY:HA2	2.21	0.69
1:J:37:THR:HG23	1:J:52:ASP:HB3	1.74	0.69
2:j:65:LEU:HD23	2:j:65:LEU:C	2.18	0.69
2:n:96:SER:CB	2:n:101:PHE:HB2	2.23	0.69
2:a:69:ALA:O	2:a:71:LEU:N	2.21	0.69
2:g:97:ARG:HG3	2:g:98:MET:N	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:g:106:ILE:HD11	2:g:136:THR:HG22	1.73	0.69
1:H:114:ALA:O	1:H:116:LYS:N	2.25	0.69
1:I:22:LEU:HD13	1:I:25:VAL:HG11	1.74	0.69
1:J:36:THR:HA	1:J:54:ARG:HH12	1.56	0.69
1:J:126:GLN:O	1:K:130:VAL:HG23	1.92	0.69
2:k:9:THR:OG1	2:k:136:THR:HG23	1.91	0.69
1:D:68:ILE:HG22	1:D:78:ALA:HB2	1.73	0.69
1:G:186:THR:OG1	1:G:189:GLU:HB2	1.93	0.69
1:G:231:LYS:O	1:G:235:GLU:HG2	1.91	0.69
2:a:137:GLY:O	2:a:140:SER:N	2.26	0.69
2:i:19:ILE:HG23	2:i:186:VAL:CG2	2.22	0.69
1:C:16:PHE:CE1	1:D:28:ALA:HA	2.28	0.69
1:G:190:GLY:CA	1:G:193:LEU:HD22	2.22	0.69
1:H:82:LEU:HD11	1:H:134:GLY:HA3	1.73	0.69
1:J:61:LYS:HE2	1:J:63:ARG:HG3	1.74	0.69
1:L:188:ASP:HA	1:L:191:LEU:HB2	1.75	0.69
2:h:7:THR:HG22	2:h:138:SER:H	1.57	0.69
2:m:102:LEU:O	2:m:103:THR:HG22	1.92	0.69
1:F:68:ILE:HD13	1:F:68:ILE:N	2.07	0.69
2:d:103:THR:H	2:d:123:PRO:HG3	1.57	0.69
2:e:184:LEU:HD22	2:e:195:PHE:CE1	2.27	0.69
1:A:39:ILE:HG12	1:A:165:ALA:HB2	1.75	0.69
1:C:125:THR:HG22	1:D:131:ARG:HE	1.58	0.69
2:a:85:CYS:O	2:a:88:LEU:HB2	1.92	0.69
2:a:184:LEU:HD22	2:a:195:PHE:HE1	1.58	0.69
2:b:169:LYS:HZ2	2:b:204:LEU:HD11	1.58	0.69
2:c:187:ILE:HG23	2:c:192:VAL:HG13	1.75	0.69
2:c:189:LYS:H	2:c:189:LYS:HE2	1.58	0.69
2:e:100:PRO:O	2:f:97:ARG:NH2	2.25	0.69
2:f:187:ILE:HG23	2:f:192:VAL:HG13	1.74	0.69
1:I:72:ASP:HB3	1:I:74:HIS:CE1	2.28	0.69
1:I:148:ARG:HD2	1:I:160:GLU:OE1	1.93	0.69
1:K:53:ARG:HB3	1:K:65:ILE:CD1	2.22	0.69
1:L:175:GLU:HA	1:L:178:GLU:HB2	1.74	0.69
1:N:236:LYS:O	1:N:237:VAL:HG23	1.93	0.69
2:h:130:GLU:HG2	2:h:134:THR:HB	1.75	0.69
2:i:72:TYR:C	2:i:72:TYR:CD2	2.71	0.69
2:i:172:MET:CG	2:i:179:GLY:HA2	2.23	0.69
2:l:22:THR:HB	2:l:39:LYS:HB2	1.75	0.69
2:m:140:SER:H	2:m:141:PRO:HD2	1.58	0.69
2:m:188:THR:O	2:m:189:LYS:C	2.35	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:172:MET:HE3	2:b:179:GLY:HA2	1.73	0.69
2:g:119:PHE:CE1	2:g:129:GLU:HG3	2.28	0.69
1:K:112:MET:HE3	1:K:112:MET:HA	1.74	0.69
2:m:25:ARG:HH11	2:m:32:VAL:CG2	2.05	0.69
2:n:130:GLU:HG2	2:n:134:THR:HB	1.75	0.69
1:C:55:ILE:CD1	1:C:62:ILE:HG23	2.23	0.69
2:d:142:ILE:HG21	2:d:171:ALA:HA	1.74	0.69
2:e:106:ILE:HD11	2:e:136:THR:HG22	1.73	0.69
2:f:35:LYS:O	2:f:36:GLU:HG3	1.92	0.69
1:I:14:THR:O	1:I:15:VAL:HG13	1.92	0.69
2:i:7:THR:N	2:i:39:LYS:HE3	2.08	0.69
2:l:49:MET:HE3	2:l:62:VAL:HG22	1.75	0.69
2:n:97:ARG:HG3	2:n:98:MET:N	2.07	0.69
1:B:239:LYS:HG3	1:B:240:LYS:HE2	1.76	0.68
1:F:14:THR:HG22	1:F:15:VAL:N	2.09	0.68
2:a:49:MET:HE1	2:a:62:VAL:HA	1.75	0.68
2:e:12:LEU:CD2	2:e:19:ILE:HB	2.22	0.68
2:g:17:ALA:HB1	2:g:187:ILE:O	1.93	0.68
1:K:207:PRO:O	1:K:208:GLU:HG3	1.92	0.68
1:N:53:ARG:HB3	1:N:65:ILE:HD13	1.74	0.68
1:N:152:THR:HA	1:N:157:ALA:HB3	1.75	0.68
2:k:49:MET:HE3	2:k:62:VAL:HG22	1.75	0.68
2:l:103:THR:H	2:l:123:PRO:CB	2.06	0.68
2:n:102:LEU:HD22	2:n:103:THR:N	2.08	0.68
1:D:116:LYS:O	1:D:119:ASP:HB2	1.94	0.68
1:D:231:LYS:O	1:D:234:ILE:HG22	1.92	0.68
1:G:66:GLU:HB3	1:G:69:PHE:CE1	2.27	0.68
1:H:14:THR:HG22	1:H:15:VAL:N	2.08	0.68
1:J:182:ARG:C	1:J:184:ASP:H	2.00	0.68
2:i:169:LYS:HD2	2:i:204:LEU:HD11	1.75	0.68
2:j:62:VAL:O	2:j:65:LEU:HB3	1.93	0.68
2:n:106:ILE:HD11	2:n:136:THR:HG22	1.74	0.68
1:B:152:THR:HA	1:B:157:ALA:HB3	1.75	0.68
1:F:214:ILE:HD12	1:F:214:ILE:N	2.08	0.68
2:d:96:SER:CA	2:d:99:PHE:HB2	2.24	0.68
2:f:7:THR:N	2:f:39:LYS:HE3	2.08	0.68
1:H:72:ASP:OD2	1:H:98:GLN:NE2	2.25	0.68
1:A:180:GLU:CD	1:A:180:GLU:H	2.00	0.68
1:B:94:ARG:NH1	2:b:75:ARG:HA	2.09	0.68
1:E:198:LEU:O	1:E:198:LEU:HD23	1.93	0.68
2:a:96:SER:CB	2:a:101:PHE:HB2	2.22	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:96:SER:HB2	2:c:101:PHE:HB2	1.76	0.68
1:K:14:THR:HG22	1:K:15:VAL:HG22	1.74	0.68
2:k:187:ILE:CG2	2:k:192:VAL:HG13	2.23	0.68
1:B:154:PRO:O	1:B:155:SER:HB3	1.93	0.68
1:E:231:LYS:O	1:E:234:ILE:HG22	1.93	0.68
1:I:68:ILE:HD13	1:I:68:ILE:H	1.57	0.68
1:J:68:ILE:CD1	1:J:211:ASP:HB3	2.22	0.68
1:K:175:GLU:HA	1:K:178:GLU:HB2	1.76	0.68
2:k:113:LEU:HG	2:k:114:GLU:N	2.07	0.68
2:m:80:ILE:HD12	2:m:80:ILE:H	1.59	0.68
1:D:66:GLU:HB3	1:D:69:PHE:CE1	2.29	0.68
1:E:14:THR:HG22	1:E:15:VAL:CG2	2.23	0.68
1:G:15:VAL:HG21	1:G:24:GLN:HB2	1.74	0.68
2:c:155:MET:HE1	2:c:163:LEU:HD22	1.76	0.68
2:d:97:ARG:C	2:d:99:PHE:H	2.02	0.68
1:I:238:LYS:HD2	1:I:238:LYS:H	1.58	0.68
2:h:9:THR:CG2	2:h:22:THR:HG22	2.23	0.68
2:h:69:ALA:O	2:h:71:LEU:N	2.21	0.68
1:A:90:ILE:O	1:A:92:ARG:N	2.27	0.68
1:B:212:VAL:HG11	1:B:225:ILE:HD12	1.75	0.68
1:E:14:THR:HG22	1:E:15:VAL:N	2.07	0.68
1:I:117:ILE:HA	1:I:120:ILE:HD12	1.76	0.68
1:J:68:ILE:HD11	1:J:211:ASP:CB	2.23	0.68
2:h:69:ALA:C	2:h:71:LEU:H	2.00	0.68
2:l:150:GLY:O	2:l:163:LEU:HD13	1.93	0.68
2:l:173:GLU:O	2:l:173:GLU:HG2	1.93	0.68
1:B:214:ILE:HD12	1:B:214:ILE:N	2.07	0.68
1:C:68:ILE:HD13	1:C:68:ILE:N	2.09	0.68
2:a:137:GLY:N	2:a:140:SER:HB3	2.09	0.68
2:b:102:LEU:HA	2:b:123:PRO:HB3	1.74	0.68
1:L:75:VAL:HG22	1:L:141:GLY:HA3	1.76	0.68
1:N:173:VAL:HA	1:N:176:LEU:HB3	1.73	0.68
2:h:196:GLU:O	2:h:197:ASP:C	2.37	0.68
1:B:22:LEU:HD13	1:B:25:VAL:HG21	1.76	0.68
1:B:239:LYS:HD2	1:B:240:LYS:HZ3	1.58	0.68
1:H:125:THR:HG22	1:I:131:ARG:HE	1.58	0.68
1:H:173:VAL:HA	1:H:176:LEU:HB3	1.76	0.68
1:K:190:GLY:O	1:K:193:LEU:HB2	1.94	0.68
2:i:69:ALA:O	2:i:71:LEU:N	2.27	0.68
2:j:82:PRO:HG2	2:j:83:LEU:CD2	2.21	0.68
2:k:62:VAL:O	2:k:66:ILE:HG13	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:n:31:LEU:HD12	2:n:32:VAL:H	1.58	0.68
2:n:155:MET:HE1	2:n:163:LEU:HD22	1.76	0.68
2:f:169:LYS:NZ	2:f:204:LEU:HD11	2.10	0.68
1:L:102:LEU:HD23	1:L:103:THR:HG23	1.76	0.68
2:h:140:SER:H	2:h:141:PRO:HD2	1.58	0.68
2:i:72:TYR:CD2	2:i:72:TYR:O	2.47	0.68
1:E:16:PHE:CZ	1:F:28:ALA:HA	2.29	0.67
1:I:102:LEU:HD23	1:I:102:LEU:C	2.18	0.67
1:M:15:VAL:HG21	1:M:24:GLN:H	1.59	0.67
1:N:90:ILE:O	1:N:92:ARG:N	2.27	0.67
2:h:103:THR:N	2:h:123:PRO:HB3	2.09	0.67
2:i:100:PRO:O	2:j:97:ARG:NH2	2.24	0.67
1:A:231:LYS:O	1:A:234:ILE:HG22	1.94	0.67
1:C:173:VAL:HA	1:C:176:LEU:HB3	1.76	0.67
1:F:178:GLU:HA	1:G:59:LEU:HD11	1.76	0.67
1:F:189:GLU:O	1:F:193:LEU:HD13	1.93	0.67
1:G:26:GLU:CG	1:G:29:ARG:HE	2.07	0.67
1:G:205:ILE:HD12	1:G:234:ILE:HD11	1.76	0.67
2:b:79:ASN:O	2:b:80:ILE:C	2.37	0.67
2:d:86:ALA:C	2:d:127:MET:HE1	2.19	0.67
2:f:141:PRO:HA	2:f:144:TYR:HB2	1.75	0.67
2:g:103:THR:H	2:g:123:PRO:HB3	1.57	0.67
1:H:160:GLU:HB3	1:I:64:SER:CB	2.22	0.67
2:j:83:LEU:HB3	2:j:119:PHE:CZ	2.29	0.67
2:l:120:SER:O	2:l:121:LEU:HD13	1.94	0.67
2:n:25:ARG:HB2	2:n:180:ASN:HB3	1.76	0.67
2:h:132:THR:HB	2:h:133:PHE:CD1	2.30	0.67
2:i:25:ARG:HB2	2:i:180:ASN:HB3	1.76	0.67
1:E:70:GLN:O	1:E:71:ILE:HD13	1.94	0.67
1:F:226:PRO:HG2	1:F:229:GLU:CG	2.24	0.67
2:d:187:ILE:HG23	2:d:192:VAL:HG13	1.76	0.67
2:e:102:LEU:C	2:e:102:LEU:HD22	2.19	0.67
1:M:231:LYS:O	1:M:234:ILE:HG22	1.93	0.67
2:i:63:ARG:C	2:i:65:LEU:H	2.02	0.67
2:m:142:ILE:HB	2:m:171:ALA:HB2	1.76	0.67
1:F:14:THR:O	1:F:15:VAL:HG13	1.95	0.67
1:K:48:VAL:CG2	1:K:214:ILE:HG23	2.25	0.67
1:M:192:GLU:HA	1:M:195:ILE:HD12	1.76	0.67
2:h:97:ARG:C	2:h:99:PHE:H	2.02	0.67
2:n:103:THR:H	2:n:123:PRO:CB	2.07	0.67
1:A:236:LYS:HA	1:A:239:LYS:HE2	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:214:ILE:HD12	1:G:214:ILE:H	1.59	0.67
2:b:23:ASP:OD2	2:b:25:ARG:HB3	1.95	0.67
2:f:106:ILE:HD11	2:f:136:THR:HG22	1.77	0.67
2:g:198:GLU:O	2:g:201:GLU:HB3	1.93	0.67
1:K:51:VAL:HG11	1:K:67:LYS:CG	2.25	0.67
1:N:22:LEU:HD23	1:N:23:TYR:N	2.10	0.67
2:n:102:LEU:HA	2:n:123:PRO:HB3	1.77	0.67
1:B:49:LEU:HD23	1:B:78:ALA:HB2	1.76	0.67
1:C:208:GLU:C	1:C:210:VAL:H	2.00	0.67
1:F:148:ARG:HD2	1:F:160:GLU:OE1	1.94	0.67
1:G:175:GLU:HA	1:G:178:GLU:HB2	1.77	0.67
2:c:25:ARG:HH11	2:c:32:VAL:CG2	2.07	0.67
2:c:43:ILE:HD11	2:c:47:ILE:HG22	1.76	0.67
2:c:130:GLU:HG2	2:c:134:THR:HB	1.77	0.67
1:I:207:PRO:C	1:I:208:GLU:HG3	2.19	0.67
1:J:173:VAL:HA	1:J:176:LEU:HB3	1.75	0.67
2:l:49:MET:CE	2:l:62:VAL:HG22	2.25	0.67
1:B:102:LEU:HD23	1:B:102:LEU:C	2.20	0.67
1:F:129:GLY:O	1:F:130:VAL:HB	1.93	0.67
2:a:184:LEU:HD22	2:a:195:PHE:CE1	2.30	0.67
2:c:43:ILE:HD13	2:c:43:ILE:N	2.04	0.67
2:c:59:GLN:HG3	2:d:126:GLY:HA2	1.77	0.67
2:n:165:LEU:HD21	2:n:184:LEU:HD12	1.77	0.67
2:a:54:SER:HB3	2:a:102:LEU:HD21	1.76	0.67
1:L:85:ASP:HA	1:L:88:VAL:CG2	2.25	0.67
1:M:160:GLU:CB	1:N:64:SER:HB3	2.23	0.67
2:i:202:LYS:HG3	2:i:203:ILE:CG1	2.20	0.67
2:m:96:SER:HB3	2:m:101:PHE:HB2	1.76	0.67
1:A:106:GLU:OE2	2:b:81:PRO:HG2	1.95	0.67
1:B:153:ASP:O	1:B:155:SER:N	2.26	0.67
1:C:214:ILE:HD12	1:C:214:ILE:N	2.10	0.67
1:G:129:GLY:O	1:G:130:VAL:HB	1.94	0.67
2:c:187:ILE:O	2:c:187:ILE:HD12	1.95	0.67
2:d:49:MET:HB3	2:d:107:ILE:HG22	1.77	0.67
1:J:15:VAL:HB	1:J:23:TYR:HB2	1.77	0.67
1:N:148:ARG:HD2	1:N:160:GLU:OE1	1.95	0.67
2:m:7:THR:N	2:m:39:LYS:HE3	2.09	0.67
1:A:199:THR:CA	1:A:205:ILE:HD11	2.24	0.66
1:F:192:GLU:HA	1:F:195:ILE:HD12	1.76	0.66
2:f:102:LEU:HA	2:f:123:PRO:HB3	1.76	0.66
1:I:52:ASP:HB2	1:I:198:LEU:HD21	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:153:ASP:C	1:J:155:SER:H	2.01	0.66
1:J:155:SER:O	1:K:84:ALA:HB2	1.95	0.66
2:j:86:ALA:O	2:j:127:MET:HE1	1.96	0.66
1:B:238:LYS:HD2	1:B:238:LYS:N	2.10	0.66
1:F:190:GLY:HA2	1:F:193:LEU:CD2	2.19	0.66
2:d:121:LEU:HD11	2:d:127:MET:HB2	1.77	0.66
2:e:9:THR:HG21	2:e:50:THR:HB	1.76	0.66
2:g:173:GLU:O	2:g:173:GLU:HG2	1.96	0.66
1:K:103:THR:O	1:K:104:TYR:CG	2.48	0.66
2:h:63:ARG:C	2:h:65:LEU:H	2.02	0.66
2:h:102:LEU:O	2:h:103:THR:HB	1.92	0.66
2:k:22:THR:HB	2:k:39:LYS:HB2	1.77	0.66
1:E:125:THR:CG2	1:F:131:ARG:HH21	2.09	0.66
1:E:153:ASP:C	1:E:155:SER:H	2.03	0.66
2:b:83:LEU:HD23	2:b:83:LEU:H	1.61	0.66
2:c:140:SER:N	2:c:141:PRO:HD2	2.10	0.66
2:e:94:HIS:O	2:e:97:ARG:HG2	1.95	0.66
2:e:184:LEU:HD22	2:e:195:PHE:HE1	1.60	0.66
2:g:46:TYR:C	2:g:47:ILE:HD12	2.20	0.66
1:H:15:VAL:HB	1:H:23:TYR:HB2	1.77	0.66
1:I:89:LEU:HD11	1:I:133:PHE:CD1	2.30	0.66
1:L:135:VAL:O	1:L:154:PRO:HD3	1.95	0.66
1:M:68:ILE:HG13	1:M:213:CYS:SG	2.36	0.66
2:h:152:ASP:O	2:h:155:MET:HG2	1.95	0.66
2:k:25:ARG:HE	2:k:32:VAL:HG13	1.61	0.66
2:k:96:SER:HA	2:k:99:PHE:HB2	1.77	0.66
1:A:37:THR:HG23	1:A:52:ASP:HB3	1.77	0.66
1:A:90:ILE:CD1	1:A:94:ARG:HD2	2.17	0.66
1:A:214:ILE:N	1:A:214:ILE:HD12	2.11	0.66
1:D:231:LYS:O	1:D:235:GLU:HG2	1.96	0.66
1:G:231:LYS:HA	1:G:234:ILE:HG22	1.77	0.66
1:H:158:LEU:HD12	1:I:83:VAL:CG1	2.26	0.66
1:I:170:ARG:CB	1:I:171:PRO:HD3	2.25	0.66
1:J:152:THR:HA	1:J:157:ALA:HB3	1.76	0.66
1:K:154:PRO:O	1:K:155:SER:HB3	1.93	0.66
1:M:241:LEU:C	1:M:242:ASN:CG	2.63	0.66
2:i:43:ILE:HD11	2:i:47:ILE:CG2	2.25	0.66
1:B:145:ASN:O	1:B:217:VAL:HG21	1.94	0.66
1:B:170:ARG:HB2	1:B:171:PRO:HD3	1.77	0.66
1:C:153:ASP:O	1:C:155:SER:N	2.29	0.66
1:D:188:ASP:OD1	1:D:191:LEU:HD13	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:238:LYS:HD2	1:E:238:LYS:N	2.09	0.66
2:a:59:GLN:HG3	2:b:126:GLY:HA2	1.77	0.66
2:b:121:LEU:HD11	2:b:127:MET:HB2	1.76	0.66
1:I:206:LYS:HB2	1:I:209:ASN:HB2	1.76	0.66
1:I:227:VAL:HA	1:I:230:ILE:HD12	1.76	0.66
1:J:142:ILE:HG23	1:J:217:VAL:HG23	1.78	0.66
1:K:71:ILE:HG21	1:K:113:LEU:HD21	1.76	0.66
1:K:150:PHE:CE1	1:K:160:GLU:HB2	2.31	0.66
1:N:45:ASP:OD1	1:N:186:THR:HB	1.94	0.66
2:h:113:LEU:HG	2:h:114:GLU:N	2.10	0.66
2:i:86:ALA:O	2:i:127:MET:HE1	1.94	0.66
2:j:23:ASP:OD2	2:j:25:ARG:HB3	1.96	0.66
2:j:136:THR:OG1	2:j:137:GLY:N	2.29	0.66
2:m:102:LEU:HA	2:m:123:PRO:HB3	1.77	0.66
1:A:75:VAL:HG22	1:A:141:GLY:HA3	1.77	0.66
1:B:239:LYS:HD2	1:B:240:LYS:NZ	2.11	0.66
1:C:40:GLY:HA2	1:C:49:LEU:HD12	1.76	0.66
1:C:53:ARG:HB3	1:C:65:ILE:CD1	2.25	0.66
2:b:106:ILE:HD11	2:b:136:THR:HG22	1.77	0.66
2:d:102:LEU:HD22	2:d:103:THR:N	2.11	0.66
2:d:111:ASP:O	2:d:112:LEU:C	2.39	0.66
2:f:79:ASN:O	2:f:80:ILE:C	2.37	0.66
2:g:49:MET:CB	2:g:107:ILE:HG22	2.26	0.66
1:J:207:PRO:C	1:J:208:GLU:HG3	2.21	0.66
1:K:14:THR:O	1:K:15:VAL:HG13	1.96	0.66
1:K:102:LEU:C	1:K:102:LEU:HD23	2.21	0.66
1:K:190:GLY:CA	1:K:193:LEU:HD22	2.20	0.66
2:b:120:SER:O	2:b:121:LEU:HD13	1.96	0.66
2:d:93:LEU:HB3	2:d:124:LEU:O	1.95	0.66
2:g:18:VAL:HB	2:g:187:ILE:CD1	2.26	0.66
2:g:140:SER:OG	2:g:141:PRO:HD3	1.96	0.66
1:K:161:TYR:CE2	1:L:60:VAL:HG22	2.30	0.66
1:L:212:VAL:HB	1:L:225:ILE:HB	1.76	0.66
1:N:214:ILE:HD12	1:N:214:ILE:N	2.11	0.66
1:A:131:ARG:CZ	1:G:126:GLN:HB3	2.25	0.66
1:C:71:ILE:HG21	1:C:113:LEU:HD21	1.77	0.66
1:G:182:ARG:O	1:G:184:ASP:N	2.29	0.66
2:d:202:LYS:O	2:d:205:ASP:HB2	1.95	0.66
2:f:202:LYS:O	2:f:205:ASP:HB2	1.95	0.66
1:H:50:ALA:HA	1:H:211:ASP:O	1.96	0.66
1:L:226:PRO:HG2	1:L:229:GLU:CG	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:m:19:ILE:O	2:m:20:LEU:HD23	1.96	0.66
1:A:24:GLN:OE1	1:G:16:PHE:HB3	1.95	0.66
1:C:14:THR:HG22	1:C:15:VAL:CG2	2.24	0.66
1:C:55:ILE:HD11	1:C:62:ILE:HG23	1.78	0.66
1:G:152:THR:HA	1:G:157:ALA:HB3	1.76	0.66
2:e:152:ASP:O	2:e:155:MET:HG2	1.95	0.66
2:e:173:GLU:O	2:e:173:GLU:HG2	1.96	0.66
1:J:62:ILE:HG22	1:J:62:ILE:O	1.96	0.66
1:J:66:GLU:HB3	1:J:69:PHE:CE1	2.31	0.66
1:J:189:GLU:O	1:J:193:LEU:HD13	1.96	0.66
1:M:188:ASP:HA	1:M:191:LEU:HB2	1.78	0.66
2:k:23:ASP:O	2:k:39:LYS:HD2	1.96	0.66
2:m:12:LEU:HD21	2:m:19:ILE:HB	1.78	0.66
1:E:36:THR:HA	1:E:54:ARG:NH1	2.10	0.66
2:c:88:LEU:HB3	2:c:92:ILE:CD1	2.25	0.66
1:J:239:LYS:HG3	1:J:240:LYS:HE2	1.78	0.66
2:h:150:GLY:O	2:h:163:LEU:HD22	1.95	0.66
2:j:16:ASP:C	2:j:189:LYS:HZ1	2.04	0.66
1:C:210:VAL:HG23	1:C:230:ILE:HG21	1.77	0.65
2:e:100:PRO:O	2:f:97:ARG:NH1	2.29	0.65
1:I:92:ARG:O	1:I:92:ARG:HD2	1.97	0.65
1:J:207:PRO:O	1:J:208:GLU:HG3	1.96	0.65
2:l:89:LEU:HA	2:l:92:ILE:HD12	1.78	0.65
1:E:63:ARG:HD3	1:E:63:ARG:N	2.12	0.65
2:d:25:ARG:HE	2:d:32:VAL:HG13	1.61	0.65
2:e:96:SER:HA	2:e:99:PHE:HB2	1.79	0.65
2:i:104:GLN:O	2:i:105:ILE:HG13	1.96	0.65
2:b:25:ARG:NH1	2:b:32:VAL:HG21	2.07	0.65
2:g:20:LEU:O	2:g:184:LEU:HD23	1.97	0.65
2:g:23:ASP:OD2	2:g:25:ARG:HB3	1.97	0.65
1:H:24:GLN:CD	1:N:16:PHE:HB3	2.21	0.65
1:K:96:GLU:HG2	1:K:116:LYS:HG2	1.78	0.65
1:C:148:ARG:HD2	1:C:160:GLU:OE1	1.97	0.65
2:f:8:THR:HG23	2:f:8:THR:O	1.95	0.65
1:M:53:ARG:HB3	1:M:65:ILE:CD1	2.25	0.65
1:N:55:ILE:CD1	1:N:62:ILE:HG23	2.26	0.65
2:l:188:THR:OG1	2:l:189:LYS:HE3	1.96	0.65
2:n:18:VAL:HB	2:n:187:ILE:CD1	2.27	0.65
1:B:166:ILE:HA	1:B:170:ARG:CD	2.27	0.65
1:D:75:VAL:HG22	1:D:141:GLY:HA3	1.79	0.65
1:D:221:GLN:HG2	1:D:222:PHE:H	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:121:LYS:HG3	1:E:133:PHE:HD1	1.57	0.65
1:E:151:GLU:O	1:E:159:ILE:HG13	1.97	0.65
1:F:22:LEU:HD13	1:F:25:VAL:HG11	1.79	0.65
1:F:83:VAL:HA	1:F:86:ALA:HB2	1.79	0.65
1:G:22:LEU:HD22	1:G:25:VAL:HG23	1.79	0.65
1:G:50:ALA:HA	1:G:211:ASP:O	1.96	0.65
1:G:89:LEU:HD21	1:G:133:PHE:CD1	2.31	0.65
2:c:17:ALA:HB1	2:c:187:ILE:O	1.97	0.65
2:g:188:THR:OG1	2:g:189:LYS:HE3	1.97	0.65
2:h:78:ARG:HB3	2:h:112:LEU:HD11	1.79	0.65
2:j:17:ALA:HB1	2:j:187:ILE:O	1.97	0.65
2:n:189:LYS:H	2:n:189:LYS:CE	2.09	0.65
1:D:14:THR:HG22	1:D:15:VAL:HG22	1.77	0.65
1:G:43:CYS:SG	1:G:44:LYS:N	2.68	0.65
1:G:94:ARG:NH1	2:g:75:ARG:HA	2.12	0.65
1:H:102:LEU:HD11	2:h:64:LEU:HD23	1.78	0.65
1:L:170:ARG:HB2	1:L:171:PRO:HD3	1.79	0.65
1:L:206:LYS:HB2	1:L:209:ASN:HB2	1.79	0.65
1:M:15:VAL:HB	1:M:23:TYR:HB2	1.79	0.65
1:M:182:ARG:C	1:M:184:ASP:H	2.04	0.65
2:j:119:PHE:CE1	2:j:129:GLU:HB2	2.32	0.65
2:j:189:LYS:H	2:j:189:LYS:CE	2.10	0.65
2:l:54:SER:HB2	2:l:102:LEU:HD21	1.78	0.65
2:n:86:ALA:O	2:n:127:MET:HE1	1.96	0.65
1:A:41:ILE:HG23	1:A:163:ALA:HB2	1.78	0.65
1:D:158:LEU:HD22	1:E:66:GLU:HB2	1.79	0.65
1:D:238:LYS:HD2	1:D:238:LYS:N	2.11	0.65
1:E:89:LEU:HD21	1:E:121:LYS:HD3	1.79	0.65
2:c:7:THR:N	2:c:39:LYS:HE3	2.11	0.65
2:d:25:ARG:HE	2:d:32:VAL:CG1	2.10	0.65
2:d:49:MET:HE3	2:d:62:VAL:HG22	1.79	0.65
2:e:60:ALA:HA	2:e:63:ARG:NH2	2.11	0.65
2:l:161:ILE:O	2:l:165:LEU:HG	1.97	0.65
2:n:146:VAL:HG21	2:n:167:ALA:HA	1.78	0.65
1:A:85:ASP:HA	1:A:88:VAL:CG2	2.27	0.65
1:B:37:THR:HG23	1:B:52:ASP:HB3	1.79	0.65
1:B:227:VAL:O	1:B:228:GLU:HB2	1.96	0.65
1:D:114:ALA:O	1:D:116:LYS:N	2.29	0.65
2:a:17:ALA:HB1	2:a:187:ILE:O	1.97	0.65
2:b:43:ILE:HD11	2:b:47:ILE:HG22	1.77	0.65
2:f:88:LEU:O	2:f:91:ASN:N	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:68:ILE:HG22	1:I:78:ALA:CB	2.26	0.65
1:J:38:ALA:CB	1:J:51:VAL:HG13	2.23	0.65
1:K:26:GLU:HG2	1:K:29:ARG:HE	1.62	0.65
2:h:172:MET:HE3	2:h:179:GLY:C	2.20	0.65
1:D:150:PHE:CE1	1:D:160:GLU:HB2	2.32	0.65
1:G:226:PRO:HG2	1:G:229:GLU:HG2	1.78	0.65
2:d:137:GLY:O	2:d:138:SER:C	2.40	0.65
1:H:221:GLN:HG2	1:H:222:PHE:H	1.61	0.65
1:J:61:LYS:HE2	1:J:63:ARG:CG	2.27	0.65
1:J:207:PRO:HB3	1:J:231:LYS:HB2	1.78	0.65
1:M:71:ILE:O	2:m:74:MET:HE1	1.97	0.65
1:M:170:ARG:HB2	1:M:171:PRO:HD3	1.78	0.65
1:M:214:ILE:HD12	1:M:214:ILE:N	2.11	0.65
1:C:114:ALA:O	1:C:117:ILE:HD13	1.97	0.65
1:D:90:ILE:C	1:D:92:ARG:H	2.03	0.65
1:E:53:ARG:HB3	1:E:65:ILE:CD1	2.27	0.65
2:c:184:LEU:HB3	2:c:195:PHE:HD1	1.61	0.65
2:e:88:LEU:O	2:e:91:ASN:N	2.30	0.65
2:f:42:LYS:HE3	2:f:45:ASP:HA	1.79	0.65
1:J:160:GLU:CB	1:K:64:SER:HB3	2.27	0.65
2:j:43:ILE:HD11	2:j:47:ILE:HG22	1.79	0.65
2:j:140:SER:N	2:j:141:PRO:HD2	2.12	0.65
2:k:172:MET:CG	2:k:179:GLY:HA2	2.27	0.65
1:D:37:THR:HG23	1:D:52:ASP:HB3	1.77	0.64
2:b:187:ILE:CG2	2:b:192:VAL:HG13	2.27	0.64
2:d:97:ARG:HG3	2:d:98:MET:N	2.07	0.64
2:g:130:GLU:CG	2:g:134:THR:HB	2.19	0.64
1:I:213:CYS:SG	1:I:224:LYS:HD2	2.38	0.64
1:J:82:LEU:HD13	1:J:82:LEU:H	1.63	0.64
1:K:125:THR:HA	1:K:132:PRO:HG3	1.78	0.64
2:i:65:LEU:HD23	2:i:65:LEU:O	1.97	0.64
2:n:49:MET:HE1	2:n:62:VAL:HA	1.77	0.64
1:F:153:ASP:C	1:F:155:SER:H	2.03	0.64
2:e:7:THR:N	2:e:39:LYS:HE3	2.12	0.64
2:e:69:ALA:C	2:e:71:LEU:H	2.04	0.64
2:e:130:GLU:CG	2:e:134:THR:HB	2.23	0.64
2:g:49:MET:HE1	2:g:62:VAL:HA	1.80	0.64
1:H:57:SER:OG	1:H:59:LEU:HD13	1.96	0.64
1:K:53:ARG:NH1	1:K:62:ILE:HG22	2.13	0.64
1:N:52:ASP:HB2	1:N:198:LEU:HD11	1.79	0.64
2:i:43:ILE:HD11	2:i:47:ILE:HG22	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l:102:LEU:O	2:l:103:THR:HB	1.97	0.64
2:n:188:THR:O	2:n:189:LYS:C	2.40	0.64
1:C:239:LYS:HG3	1:C:240:LYS:CE	2.25	0.64
1:D:227:VAL:O	1:D:228:GLU:HB2	1.97	0.64
1:F:48:VAL:HG13	1:F:213:CYS:O	1.96	0.64
2:g:135:ALA:HB3	2:g:144:TYR:CE1	2.32	0.64
1:H:160:GLU:CB	1:I:64:SER:HB3	2.24	0.64
1:J:148:ARG:HD2	1:J:160:GLU:OE1	1.96	0.64
2:h:24:LYS:HB3	2:h:36:GLU:HA	1.79	0.64
1:C:173:VAL:C	1:C:175:GLU:H	2.05	0.64
1:G:66:GLU:HB3	1:G:69:PHE:CZ	2.33	0.64
2:b:113:LEU:HG	2:b:114:GLU:N	2.11	0.64
2:c:62:VAL:HG12	2:c:66:ILE:HD11	1.78	0.64
2:g:63:ARG:C	2:g:65:LEU:H	2.05	0.64
1:I:203:GLU:O	1:I:204:ASP:HB2	1.96	0.64
2:h:9:THR:O	2:h:135:ALA:HB1	1.97	0.64
2:h:101:PHE:HD1	2:h:102:LEU:N	1.92	0.64
1:A:16:PHE:CE1	1:B:28:ALA:HA	2.32	0.64
1:D:15:VAL:HB	1:D:23:TYR:HB2	1.79	0.64
1:D:68:ILE:HG22	1:D:78:ALA:CB	2.28	0.64
1:E:212:VAL:HB	1:E:225:ILE:HB	1.78	0.64
2:d:16:ASP:O	2:d:189:LYS:NZ	2.31	0.64
2:d:113:LEU:HG	2:d:114:GLU:N	2.12	0.64
2:e:72:TYR:CD2	2:e:72:TYR:O	2.50	0.64
1:M:48:VAL:HG22	1:M:214:ILE:HA	1.80	0.64
2:h:18:VAL:HG11	2:h:118:LEU:HD13	1.79	0.64
2:j:172:MET:CG	2:j:179:GLY:HA2	2.27	0.64
2:m:54:SER:CB	2:m:102:LEU:HD21	2.27	0.64
1:E:49:LEU:HD23	1:E:78:ALA:HB2	1.79	0.64
2:e:72:TYR:HD2	2:e:72:TYR:O	1.80	0.64
2:e:188:THR:OG1	2:e:189:LYS:HE3	1.98	0.64
2:f:42:LYS:CE	2:f:45:ASP:HA	2.28	0.64
1:K:15:VAL:HG21	1:K:24:GLN:N	2.12	0.64
1:L:61:LYS:HE2	1:L:63:ARG:CG	2.27	0.64
1:N:39:ILE:HD11	1:N:173:VAL:HG21	1.80	0.64
2:i:12:LEU:HD21	2:i:19:ILE:HB	1.79	0.64
2:j:31:LEU:HD12	2:j:32:VAL:N	2.12	0.64
2:k:102:LEU:HA	2:k:123:PRO:HB3	1.80	0.64
2:k:156:SER:HG	2:k:159:GLU:H	1.45	0.64
2:m:25:ARG:HB2	2:m:180:ASN:HB3	1.80	0.64
2:m:202:LYS:HD3	2:m:203:ILE:HG12	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:38:ALA:HB2	1:A:51:VAL:HG13	1.77	0.64
1:B:82:LEU:HD13	1:B:82:LEU:N	2.13	0.64
1:H:192:GLU:HA	1:H:195:ILE:HD12	1.79	0.64
1:I:92:ARG:HG2	1:I:92:ARG:HH21	1.62	0.64
1:L:173:VAL:HA	1:L:176:LEU:HB3	1.79	0.64
2:h:104:GLN:O	2:h:105:ILE:HG13	1.98	0.64
2:k:9:THR:HA	2:k:21:ALA:O	1.98	0.64
1:C:153:ASP:C	1:C:155:SER:H	2.06	0.64
1:D:152:THR:HA	1:D:157:ALA:HB3	1.78	0.64
1:G:55:ILE:HD13	1:G:62:ILE:HG12	1.79	0.64
2:b:25:ARG:HH11	2:b:32:VAL:CG2	2.08	0.64
2:g:88:LEU:O	2:g:92:ILE:N	2.30	0.64
2:g:187:ILE:HG23	2:g:192:VAL:HG13	1.79	0.64
1:H:14:THR:HG22	1:H:15:VAL:CG2	2.28	0.64
1:L:90:ILE:C	1:L:92:ARG:N	2.54	0.64
1:L:236:LYS:HA	1:L:239:LYS:HE2	1.79	0.64
1:N:53:ARG:HB3	1:N:65:ILE:CD1	2.28	0.64
2:h:142:ILE:HG21	2:h:171:ALA:HA	1.79	0.64
2:k:89:LEU:O	2:k:90:SER:C	2.41	0.64
2:n:96:SER:HB2	2:n:101:PHE:HB2	1.79	0.64
1:B:135:VAL:O	1:B:154:PRO:HD3	1.98	0.64
1:B:206:LYS:HB2	1:B:209:ASN:HB2	1.80	0.64
1:F:39:ILE:HG12	1:F:165:ALA:HB2	1.78	0.64
1:G:68:ILE:HD11	1:G:211:ASP:OD2	1.98	0.64
2:a:37:ALA:HA	2:b:128:ASN:OD1	1.98	0.64
2:a:43:ILE:H	2:a:43:ILE:CD1	2.09	0.64
2:b:101:PHE:HD1	2:b:102:LEU:N	1.95	0.64
2:e:15:ASP:OD2	2:e:154:ASP:O	2.16	0.64
2:g:25:ARG:HH11	2:g:32:VAL:HG21	1.62	0.64
2:g:102:LEU:HD22	2:g:103:THR:CA	2.28	0.64
2:i:10:VAL:HG12	2:i:135:ALA:HB2	1.80	0.64
2:j:196:GLU:O	2:j:197:ASP:C	2.40	0.64
2:k:172:MET:HB3	2:k:179:GLY:HA2	1.78	0.64
2:m:146:VAL:HG21	2:m:167:ALA:HA	1.80	0.64
1:E:39:ILE:HG23	1:E:164:THR:O	1.97	0.64
2:a:79:ASN:O	2:a:80:ILE:C	2.41	0.64
2:c:8:THR:HG23	2:c:8:THR:O	1.99	0.64
2:c:96:SER:CB	2:c:101:PHE:HB2	2.27	0.64
2:d:69:ALA:C	2:d:71:LEU:H	2.05	0.64
2:f:83:LEU:HD23	2:f:83:LEU:H	1.63	0.64
1:H:192:GLU:O	1:H:193:LEU:C	2.40	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:231:LYS:O	1:M:235:GLU:HG2	1.98	0.64
1:A:153:ASP:O	1:A:155:SER:N	2.30	0.63
1:F:170:ARG:HB2	1:F:171:PRO:HD3	1.79	0.63
2:a:96:SER:HA	2:a:99:PHE:HB2	1.79	0.63
2:a:198:GLU:HG3	2:a:199:GLU:H	1.63	0.63
2:e:83:LEU:HD22	2:e:117:LYS:HE3	1.78	0.63
2:e:102:LEU:HD22	2:e:103:THR:N	2.13	0.63
1:H:90:ILE:O	1:H:92:ARG:N	2.30	0.63
1:H:121:LYS:HG3	1:H:133:PHE:CD1	2.22	0.63
1:K:16:PHE:HB3	1:L:24:GLN:OE1	1.98	0.63
1:K:22:LEU:HD23	1:K:23:TYR:N	2.13	0.63
1:L:198:LEU:O	1:L:198:LEU:HD23	1.98	0.63
1:M:177:LEU:HA	1:M:180:GLU:OE1	1.98	0.63
1:N:75:VAL:HG21	1:N:110:ILE:HG12	1.80	0.63
2:k:173:GLU:HG2	2:k:173:GLU:O	1.96	0.63
1:D:125:THR:CG2	1:E:131:ARG:HH21	2.11	0.63
1:E:181:TYR:O	1:E:182:ARG:HG3	1.97	0.63
1:G:82:LEU:H	1:G:82:LEU:HD22	1.62	0.63
1:G:112:MET:HA	1:G:112:MET:HE3	1.79	0.63
2:c:79:ASN:O	2:c:80:ILE:C	2.41	0.63
1:B:166:ILE:HA	1:B:170:ARG:HD3	1.80	0.63
1:C:18:PRO:HA	1:D:27:TYR:CD1	2.34	0.63
1:D:152:THR:HA	1:D:157:ALA:CB	2.29	0.63
1:D:173:VAL:HA	1:D:176:LEU:HB3	1.80	0.63
1:E:37:THR:HG23	1:E:52:ASP:HB3	1.79	0.63
2:f:49:MET:HE1	2:f:62:VAL:HA	1.79	0.63
1:J:102:LEU:HD23	1:J:102:LEU:C	2.23	0.63
1:K:36:THR:HA	1:K:54:ARG:NH1	2.12	0.63
1:K:231:LYS:O	1:K:235:GLU:HG2	1.97	0.63
1:M:96:GLU:HG2	1:M:116:LYS:CG	2.27	0.63
1:M:166:ILE:HA	1:M:170:ARG:HG2	1.80	0.63
2:h:10:VAL:HG23	2:h:21:ALA:HB3	1.80	0.63
2:k:44:ASP:O	2:k:46:TYR:N	2.32	0.63
2:l:52:ALA:O	2:l:104:GLN:HB2	1.99	0.63
2:l:69:ALA:O	2:l:71:LEU:N	2.26	0.63
2:n:169:LYS:CE	2:n:204:LEU:HD21	2.27	0.63
1:G:70:GLN:O	1:G:71:ILE:HD13	1.99	0.63
2:a:185:ALA:HA	2:a:193:LYS:O	1.98	0.63
1:J:212:VAL:HB	1:J:225:ILE:HB	1.81	0.63
1:L:161:TYR:CD2	1:M:60:VAL:HG13	2.33	0.63
2:h:43:ILE:HD11	2:h:47:ILE:CG2	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:m:49:MET:HB3	2:m:107:ILE:HG22	1.80	0.63
1:B:182:ARG:C	1:B:184:ASP:H	2.07	0.63
1:C:182:ARG:C	1:C:184:ASP:H	2.05	0.63
1:E:208:GLU:C	1:E:210:VAL:N	2.51	0.63
2:a:7:THR:N	2:a:39:LYS:HE3	2.13	0.63
2:b:140:SER:N	2:b:141:PRO:HD2	2.13	0.63
2:c:189:LYS:H	2:c:189:LYS:CE	2.12	0.63
2:e:154:ASP:O	2:e:155:MET:C	2.39	0.63
1:H:239:LYS:HG3	1:H:240:LYS:HE2	1.79	0.63
1:I:61:LYS:HE2	1:I:63:ARG:CG	2.29	0.63
1:J:121:LYS:NZ	1:J:152:THR:OG1	2.27	0.63
1:J:125:THR:HG22	1:K:131:ARG:HE	1.64	0.63
1:L:122:GLN:CG	1:M:84:ALA:HB1	2.24	0.63
1:L:160:GLU:HB3	1:M:64:SER:HB3	1.79	0.63
2:j:96:SER:HA	2:j:99:PHE:HB2	1.80	0.63
2:m:78:ARG:O	2:m:79:ASN:C	2.41	0.63
1:A:14:THR:HG22	1:A:15:VAL:N	2.13	0.63
1:B:101:ARG:HH11	1:B:107:GLU:HG2	1.62	0.63
1:C:15:VAL:HB	1:C:23:TYR:HB2	1.81	0.63
1:F:26:GLU:CG	1:F:29:ARG:HE	2.12	0.63
2:f:43:ILE:HD13	2:f:43:ILE:N	2.10	0.63
2:f:102:LEU:HD22	2:f:103:THR:N	2.14	0.63
2:g:23:ASP:O	2:g:39:LYS:HD2	1.99	0.63
1:H:102:LEU:HD23	1:H:102:LEU:C	2.23	0.63
1:H:175:GLU:HA	1:H:178:GLU:HB2	1.80	0.63
1:J:228:GLU:CD	1:J:231:LYS:HD3	2.24	0.63
1:K:117:ILE:HA	1:K:120:ILE:HD12	1.81	0.63
2:h:184:LEU:HD23	2:h:185:ALA:N	2.14	0.63
2:k:172:MET:HE3	2:k:179:GLY:HA2	1.81	0.63
2:n:7:THR:HA	2:n:39:LYS:NZ	2.14	0.63
1:A:22:LEU:HD13	1:A:25:VAL:HG11	1.79	0.63
1:A:32:VAL:HG11	1:A:170:ARG:HH21	1.63	0.63
1:A:158:LEU:HB3	1:B:64:SER:O	1.98	0.63
1:A:207:PRO:O	1:A:208:GLU:HG3	1.98	0.63
2:b:43:ILE:H	2:b:43:ILE:CD1	2.10	0.63
2:b:140:SER:OG	2:b:141:PRO:HD3	1.98	0.63
2:d:23:ASP:CG	2:d:23:ASP:O	2.42	0.63
1:H:48:VAL:HG22	1:H:214:ILE:HA	1.80	0.63
1:I:72:ASP:HB3	1:I:74:HIS:ND1	2.13	0.63
1:N:32:VAL:HG11	1:N:170:ARG:HH21	1.64	0.63
1:N:52:ASP:HB2	1:N:198:LEU:CD2	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h:94:HIS:NE2	2:h:97:ARG:HD3	2.14	0.63
1:B:66:GLU:HB3	1:B:69:PHE:CE1	2.33	0.63
1:C:39:ILE:HD11	1:C:173:VAL:HG21	1.80	0.63
2:a:25:ARG:HB2	2:a:180:ASN:H	1.64	0.63
2:c:69:ALA:O	2:c:71:LEU:N	2.29	0.63
2:d:7:THR:N	2:d:39:LYS:HE3	2.14	0.63
1:K:190:GLY:HA2	1:K:193:LEU:CD2	2.21	0.63
1:M:22:LEU:HD23	1:M:22:LEU:C	2.24	0.63
2:i:72:TYR:HB3	2:i:80:ILE:HG13	1.79	0.63
2:i:104:GLN:HA	2:i:104:GLN:HE21	1.63	0.63
2:j:113:LEU:HG	2:j:114:GLU:N	2.14	0.63
2:l:142:ILE:HD12	2:l:171:ALA:HA	1.81	0.63
2:n:78:ARG:HB3	2:n:112:LEU:HD11	1.81	0.63
1:B:231:LYS:HG2	1:B:235:GLU:OE1	1.99	0.63
1:C:52:ASP:HB2	1:C:198:LEU:CD2	2.28	0.63
1:D:214:ILE:N	1:D:214:ILE:HD12	2.14	0.63
2:f:85:CYS:O	2:f:88:LEU:HB2	1.99	0.63
2:g:54:SER:CB	2:g:102:LEU:HD11	2.29	0.63
1:H:131:ARG:HE	1:N:125:THR:HG22	1.63	0.63
1:J:68:ILE:HD13	1:J:68:ILE:N	2.14	0.63
1:M:154:PRO:O	1:M:155:SER:HB3	1.98	0.63
2:h:172:MET:CB	2:h:179:GLY:HA2	2.29	0.63
2:m:88:LEU:HB3	2:m:92:ILE:HD11	1.80	0.63
2:n:80:ILE:N	2:n:80:ILE:HD12	2.14	0.63
1:D:14:THR:HG22	1:D:15:VAL:N	2.13	0.62
1:G:48:VAL:HG22	1:G:214:ILE:HG23	1.79	0.62
2:d:18:VAL:HG23	2:d:116:ALA:HB1	1.80	0.62
2:e:83:LEU:HD23	2:e:83:LEU:H	1.64	0.62
1:K:206:LYS:HB2	1:K:209:ASN:HB2	1.81	0.62
1:L:53:ARG:HB3	1:L:65:ILE:CD1	2.27	0.62
1:L:57:SER:OG	1:L:59:LEU:HD13	1.99	0.62
2:l:85:CYS:O	2:l:88:LEU:HB2	1.99	0.62
2:n:164:ALA:O	2:n:165:LEU:C	2.42	0.62
1:C:122:GLN:O	1:C:125:THR:HB	1.99	0.62
1:E:186:THR:OG1	1:E:189:GLU:HB2	1.99	0.62
2:a:100:PRO:O	2:b:97:ARG:NH2	2.27	0.62
1:J:151:GLU:O	1:J:157:ALA:HB1	1.98	0.62
2:i:43:ILE:H	2:i:43:ILE:HD13	1.63	0.62
2:i:49:MET:HE1	2:i:62:VAL:HA	1.81	0.62
2:i:82:PRO:C	2:i:84:ALA:H	2.07	0.62
2:k:7:THR:CG2	2:k:138:SER:H	2.11	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l:83:LEU:HB3	2:l:119:PHE:HZ	1.63	0.62
1:E:69:PHE:CD2	1:E:90:ILE:HG12	2.35	0.62
2:f:86:ALA:O	2:f:127:MET:HE1	1.99	0.62
1:J:14:THR:HG22	1:J:15:VAL:N	2.14	0.62
1:K:161:TYR:HE2	1:L:60:VAL:HG22	1.63	0.62
1:K:188:ASP:HA	1:K:191:LEU:HB2	1.81	0.62
2:k:7:THR:N	2:k:39:LYS:HE3	2.15	0.62
2:k:140:SER:H	2:k:141:PRO:HD2	1.63	0.62
2:m:8:THR:HA	2:m:137:GLY:HA3	1.80	0.62
2:m:101:PHE:HD1	2:m:102:LEU:N	1.93	0.62
2:n:140:SER:N	2:n:141:PRO:HD2	2.14	0.62
1:B:51:VAL:HG11	1:B:67:LYS:HG3	1.81	0.62
1:G:15:VAL:HB	1:G:23:TYR:HB2	1.81	0.62
2:b:76:THR:HG23	2:b:76:THR:O	1.98	0.62
2:g:83:LEU:HD22	2:g:117:LYS:HE3	1.80	0.62
2:g:172:MET:HB3	2:g:179:GLY:HA2	1.82	0.62
1:J:52:ASP:HB2	1:J:198:LEU:HD21	1.81	0.62
1:L:45:ASP:OD1	1:L:186:THR:HB	1.99	0.62
2:l:8:THR:HB	2:l:178:SER:OG	1.98	0.62
2:l:184:LEU:HB3	2:l:195:PHE:HD1	1.63	0.62
2:a:31:LEU:HD12	2:a:32:VAL:N	2.15	0.62
2:e:97:ARG:HG3	2:e:98:MET:H	1.63	0.62
1:I:90:ILE:C	1:I:92:ARG:N	2.48	0.62
1:J:205:ILE:HD12	1:J:234:ILE:HD11	1.80	0.62
1:L:79:THR:HG21	1:L:86:ALA:HB1	1.81	0.62
1:N:68:ILE:HD13	1:N:68:ILE:H	1.62	0.62
2:h:79:ASN:O	2:h:80:ILE:C	2.41	0.62
2:k:43:ILE:HD13	2:k:43:ILE:N	2.04	0.62
2:l:42:LYS:HZ2	2:l:192:VAL:HB	1.64	0.62
1:D:39:ILE:HD11	1:D:173:VAL:HG21	1.82	0.62
1:E:122:GLN:HG3	1:F:84:ALA:O	2.00	0.62
1:F:53:ARG:HB3	1:F:65:ILE:HD13	1.80	0.62
2:d:79:ASN:O	2:d:80:ILE:C	2.40	0.62
2:e:121:LEU:CD1	2:e:127:MET:HB2	2.29	0.62
1:J:52:ASP:HB2	1:J:198:LEU:HD11	1.81	0.62
1:K:51:VAL:HG11	1:K:67:LYS:HG3	1.81	0.62
1:L:48:VAL:HG13	1:L:213:CYS:O	2.00	0.62
1:M:14:THR:HG22	1:M:15:VAL:N	2.14	0.62
2:h:43:ILE:H	2:h:43:ILE:CD1	2.12	0.62
2:j:169:LYS:CE	2:j:204:LEU:HD21	2.28	0.62
2:m:169:LYS:HD2	2:m:204:LEU:HD11	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:m:184:LEU:HB3	2:m:195:PHE:CD1	2.34	0.62
2:m:184:LEU:HD13	2:m:195:PHE:CE1	2.35	0.62
1:B:22:LEU:HD23	1:B:22:LEU:C	2.25	0.62
1:B:92:ARG:HD2	1:B:92:ARG:O	1.99	0.62
1:C:68:ILE:HG22	1:C:78:ALA:CB	2.29	0.62
1:D:32:VAL:HG11	1:D:170:ARG:HH21	1.64	0.62
1:D:237:VAL:HG12	1:D:238:LYS:HD2	1.81	0.62
1:E:48:VAL:HG22	1:E:214:ILE:HA	1.82	0.62
1:E:96:GLU:HG2	1:E:116:LYS:CG	2.27	0.62
1:F:92:ARG:O	1:F:92:ARG:HD2	1.99	0.62
2:e:79:ASN:O	2:e:80:ILE:C	2.41	0.62
2:f:55:VAL:HG23	2:f:56:GLY:H	1.63	0.62
1:I:207:PRO:O	1:I:208:GLU:HG3	2.00	0.62
2:i:172:MET:HE3	2:i:179:GLY:HA2	1.82	0.62
2:j:28:LEU:HG	2:j:28:LEU:O	1.98	0.62
2:j:176:THR:OG1	2:j:177:PHE:HD2	1.83	0.62
1:C:82:LEU:HD13	1:C:82:LEU:H	1.64	0.62
1:D:32:VAL:C	1:D:34:ARG:H	2.07	0.62
1:D:48:VAL:HG22	1:D:214:ILE:HA	1.81	0.62
1:G:100:TYR:CE2	1:G:108:ILE:HA	2.34	0.62
2:a:111:ASP:O	2:a:112:LEU:C	2.42	0.62
2:c:72:TYR:C	2:c:72:TYR:CD2	2.78	0.62
2:d:101:PHE:CD1	2:d:102:LEU:N	2.59	0.62
2:g:96:SER:HA	2:g:99:PHE:HB2	1.81	0.62
2:g:97:ARG:HG3	2:g:98:MET:H	1.63	0.62
1:H:68:ILE:HG22	1:H:78:ALA:CB	2.29	0.62
1:H:186:THR:H	1:H:189:GLU:HB3	1.64	0.62
2:j:187:ILE:HG23	2:j:192:VAL:HG13	1.80	0.62
1:B:155:SER:O	1:B:155:SER:OG	2.17	0.62
2:a:93:LEU:HB3	2:a:124:LEU:O	1.99	0.62
2:b:17:ALA:HB1	2:b:187:ILE:O	2.00	0.62
2:e:44:ASP:OD1	2:e:79:ASN:HB3	2.00	0.62
2:g:85:CYS:O	2:g:86:ALA:C	2.42	0.62
1:H:24:GLN:NE2	1:N:16:PHE:HB3	2.14	0.62
1:I:66:GLU:HB3	1:I:69:PHE:CE1	2.35	0.62
1:I:82:LEU:HD13	1:I:82:LEU:N	2.14	0.62
1:K:214:ILE:HD12	1:K:214:ILE:N	2.14	0.62
1:M:26:GLU:HA	1:M:29:ARG:HG3	1.81	0.62
1:N:206:LYS:HB2	1:N:209:ASN:HB2	1.82	0.62
2:i:102:LEU:HA	2:i:123:PRO:HB3	1.82	0.62
2:j:188:THR:OG1	2:j:189:LYS:HE3	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l:12:LEU:CD2	2:l:19:ILE:HB	2.30	0.62
2:n:43:ILE:HD11	2:n:47:ILE:HG22	1.81	0.62
1:A:82:LEU:HD13	1:A:82:LEU:H	1.65	0.62
1:B:94:ARG:HH12	2:b:75:ARG:HA	1.65	0.62
1:F:82:LEU:HD13	1:F:82:LEU:N	2.15	0.62
2:c:102:LEU:HA	2:c:123:PRO:HB3	1.80	0.62
1:H:162:LYS:HG3	1:H:181:TYR:OH	1.99	0.62
1:M:99:ILE:HG22	1:M:100:TYR:N	2.14	0.62
2:n:49:MET:HB3	2:n:107:ILE:HG22	1.81	0.62
1:D:161:TYR:CD2	1:E:60:VAL:HG13	2.34	0.61
2:b:83:LEU:HD22	2:b:117:LYS:HE3	1.81	0.61
2:d:54:SER:CB	2:d:102:LEU:HD21	2.30	0.61
2:e:24:LYS:HE2	2:e:183:SER:CB	2.30	0.61
2:f:154:ASP:O	2:f:155:MET:C	2.42	0.61
1:I:14:THR:HG22	1:I:15:VAL:N	2.15	0.61
1:I:16:PHE:CZ	1:J:28:ALA:HA	2.35	0.61
1:J:22:LEU:HD13	1:J:25:VAL:HG11	1.80	0.61
1:J:104:TYR:CE1	2:k:88:LEU:HD11	2.33	0.61
1:K:42:ALA:O	1:K:43:CYS:HB3	2.00	0.61
1:L:89:LEU:HD11	1:L:133:PHE:CD1	2.35	0.61
1:M:100:TYR:CD2	1:M:108:ILE:HB	2.35	0.61
1:N:226:PRO:HG2	1:N:229:GLU:HG2	1.82	0.61
2:h:137:GLY:O	2:h:138:SER:C	2.43	0.61
2:i:9:THR:HG22	2:i:22:THR:HG22	1.81	0.61
2:j:137:GLY:O	2:j:138:SER:C	2.43	0.61
2:n:7:THR:HG22	2:n:138:SER:H	1.65	0.61
1:B:15:VAL:HB	1:B:23:TYR:HB2	1.82	0.61
1:D:187:LEU:O	1:D:191:LEU:N	2.33	0.61
1:E:32:VAL:O	1:E:35:GLY:N	2.31	0.61
1:E:90:ILE:HD12	1:E:94:ARG:HD2	1.80	0.61
1:F:49:LEU:HD23	1:F:78:ALA:HB2	1.82	0.61
1:G:125:THR:HA	1:G:132:PRO:HG3	1.81	0.61
2:d:54:SER:OG	2:d:57:ASP:HB2	2.00	0.61
2:e:9:THR:OG1	2:e:136:THR:HG23	1.99	0.61
2:e:16:ASP:C	2:e:189:LYS:HZ1	2.08	0.61
2:e:121:LEU:HD12	2:e:126:GLY:O	2.00	0.61
2:g:72:TYR:O	2:g:76:THR:HG22	2.00	0.61
1:H:52:ASP:HB2	1:H:198:LEU:HD11	1.83	0.61
1:H:227:VAL:O	1:H:228:GLU:HB2	2.00	0.61
1:I:242:ASN:O	1:I:244:GLU:N	2.33	0.61
1:K:94:ARG:NH1	2:k:75:ARG:HA	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:215:ILE:HG12	1:L:222:PHE:HA	1.81	0.61
1:M:13:ILE:HG12	1:N:13:ILE:HG21	1.81	0.61
1:N:32:VAL:C	1:N:34:ARG:H	2.07	0.61
2:i:79:ASN:O	2:i:80:ILE:C	2.43	0.61
2:j:7:THR:HG22	2:j:138:SER:H	1.64	0.61
2:j:31:LEU:HD12	2:j:32:VAL:H	1.64	0.61
2:k:88:LEU:HB3	2:k:92:ILE:HD11	1.81	0.61
2:k:106:ILE:HA	2:k:119:PHE:O	2.01	0.61
2:k:202:LYS:HG3	2:k:203:ILE:N	2.14	0.61
2:n:17:ALA:HB1	2:n:187:ILE:O	2.00	0.61
1:C:122:GLN:NE2	1:D:85:ASP:OD2	2.31	0.61
2:a:63:ARG:C	2:a:65:LEU:H	2.07	0.61
2:c:187:ILE:HG22	2:c:192:VAL:CG2	2.29	0.61
1:J:39:ILE:HG12	1:J:165:ALA:CB	2.29	0.61
1:K:61:LYS:HE2	1:K:63:ARG:HG2	1.82	0.61
1:M:153:ASP:O	1:M:155:SER:N	2.28	0.61
1:A:15:VAL:HG11	1:A:24:GLN:HG2	1.82	0.61
1:C:48:VAL:CG2	1:C:214:ILE:HG23	2.29	0.61
1:E:71:ILE:C	2:e:74:MET:HE1	2.24	0.61
2:g:7:THR:HB	2:g:138:SER:HB3	1.82	0.61
2:g:12:LEU:N	2:g:12:LEU:HD23	2.14	0.61
2:g:128:ASN:HD22	2:g:129:GLU:H	1.47	0.61
1:H:226:PRO:HG2	1:H:229:GLU:HG2	1.81	0.61
1:I:208:GLU:C	1:I:210:VAL:H	2.06	0.61
1:K:145:ASN:O	1:K:217:VAL:HG21	1.99	0.61
1:L:160:GLU:CB	1:M:64:SER:HB3	2.30	0.61
2:k:142:ILE:CD1	2:k:174:ARG:O	2.48	0.61
2:m:60:ALA:HA	2:m:63:ARG:NH2	2.15	0.61
1:A:89:LEU:HD21	1:A:133:PHE:CD1	2.35	0.61
1:B:151:GLU:O	1:B:157:ALA:HB1	2.00	0.61
1:D:161:TYR:CD2	1:E:60:VAL:HG22	2.35	0.61
1:D:223:LYS:HG3	1:D:224:LYS:N	2.16	0.61
1:G:72:ASP:OD2	1:G:101:ARG:NH1	2.32	0.61
1:G:102:LEU:HD23	1:G:102:LEU:C	2.25	0.61
1:G:153:ASP:C	1:G:155:SER:H	2.09	0.61
2:d:31:LEU:HD12	2:d:32:VAL:N	2.16	0.61
1:H:36:THR:HA	1:H:54:ARG:HH12	1.66	0.61
1:I:231:LYS:O	1:I:234:ILE:HG22	2.00	0.61
1:M:39:ILE:HG12	1:M:165:ALA:CB	2.29	0.61
1:M:167:GLY:H	1:M:170:ARG:HG3	1.65	0.61
1:N:26:GLU:CG	1:N:29:ARG:HE	2.11	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:48:VAL:CG2	1:N:214:ILE:HG23	2.30	0.61
2:h:43:ILE:HD11	2:h:47:ILE:HB	1.82	0.61
2:h:49:MET:HB3	2:h:107:ILE:HG22	1.82	0.61
2:i:86:ALA:C	2:i:127:MET:HE1	2.26	0.61
2:j:24:LYS:HB3	2:j:36:GLU:HA	1.82	0.61
2:k:51:ILE:O	2:k:51:ILE:HG13	2.00	0.61
2:m:187:ILE:HG23	2:m:192:VAL:HG13	1.81	0.61
1:A:82:LEU:HD13	1:A:82:LEU:N	2.15	0.61
1:D:48:VAL:CG2	1:D:214:ILE:HG23	2.31	0.61
1:E:206:LYS:HB2	1:E:209:ASN:HB2	1.82	0.61
2:g:156:SER:OG	2:g:159:GLU:N	2.23	0.61
1:L:37:THR:HG23	1:L:52:ASP:HB3	1.82	0.61
1:L:114:ALA:O	1:L:117:ILE:HD13	2.01	0.61
1:M:90:ILE:HD12	1:M:94:ARG:HD2	1.81	0.61
2:i:19:ILE:HG23	2:i:186:VAL:HG22	1.82	0.61
2:j:12:LEU:N	2:j:12:LEU:HD23	2.15	0.61
2:j:49:MET:HE1	2:j:62:VAL:HA	1.82	0.61
1:A:212:VAL:HB	1:A:225:ILE:HB	1.82	0.61
1:B:212:VAL:CB	1:B:225:ILE:HB	2.25	0.61
1:D:114:ALA:C	1:D:116:LYS:H	2.07	0.61
1:E:22:LEU:HD23	1:E:23:TYR:N	2.16	0.61
2:b:63:ARG:C	2:b:65:LEU:H	2.08	0.61
2:g:43:ILE:HD13	2:g:43:ILE:N	2.04	0.61
1:H:61:LYS:HG2	1:H:63:ARG:HG2	1.81	0.61
1:I:151:GLU:O	1:I:159:ILE:HG13	1.99	0.61
1:L:32:VAL:HG11	1:L:170:ARG:HH21	1.66	0.61
2:h:9:THR:HG22	2:h:22:THR:HA	1.82	0.61
2:k:69:ALA:HA	2:k:80:ILE:HG12	1.83	0.61
2:n:184:LEU:HB3	2:n:195:PHE:HD1	1.65	0.61
1:A:89:LEU:HD11	1:A:133:PHE:CD1	2.35	0.61
1:C:85:ASP:O	1:C:89:LEU:HD13	2.01	0.61
1:D:82:LEU:CD2	1:D:85:ASP:HB2	2.31	0.61
2:b:43:ILE:HD13	2:b:43:ILE:N	2.13	0.61
2:d:83:LEU:HD23	2:d:83:LEU:H	1.65	0.61
2:d:135:ALA:N	2:d:144:TYR:HE1	1.98	0.61
2:e:7:THR:HA	2:e:39:LYS:HZ1	1.65	0.61
2:g:47:ILE:HD12	2:g:47:ILE:N	2.15	0.61
2:g:79:ASN:O	2:g:80:ILE:C	2.44	0.61
1:H:152:THR:HA	1:H:157:ALA:HB3	1.81	0.61
1:J:203:GLU:O	1:J:204:ASP:HB2	2.01	0.61
1:K:43:CYS:SG	1:K:44:LYS:N	2.74	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:125:THR:HG22	1:N:131:ARG:HE	1.66	0.61
1:M:242:ASN:C	1:M:244:GLU:H	2.08	0.61
2:j:25:ARG:HB2	2:j:180:ASN:N	2.12	0.61
2:k:72:TYR:C	2:k:72:TYR:CD2	2.79	0.61
1:A:173:VAL:C	1:A:175:GLU:H	2.08	0.61
1:B:15:VAL:HG21	1:B:24:GLN:H	1.66	0.61
1:B:39:ILE:HG12	1:B:165:ALA:CB	2.30	0.61
2:c:172:MET:HE3	2:c:179:GLY:C	2.25	0.61
1:H:32:VAL:HG22	1:H:80:SER:O	2.01	0.61
1:I:182:ARG:C	1:I:184:ASP:H	2.08	0.61
2:i:184:LEU:HB3	2:i:195:PHE:CD1	2.31	0.61
2:j:103:THR:H	2:j:123:PRO:HB3	1.64	0.61
2:l:69:ALA:C	2:l:71:LEU:H	2.09	0.61
1:C:17:SER:HB3	1:C:21:ARG:C	2.26	0.61
1:D:72:ASP:OD2	1:D:98:GLN:NE2	2.27	0.61
1:F:26:GLU:HA	1:F:29:ARG:HG3	1.83	0.61
1:F:68:ILE:HG22	1:F:78:ALA:CB	2.29	0.61
2:b:25:ARG:HB2	2:b:180:ASN:H	1.65	0.61
2:c:43:ILE:HG12	2:c:44:ASP:N	2.15	0.61
2:e:49:MET:HE3	2:e:62:VAL:HG22	1.83	0.61
1:N:71:ILE:O	2:n:74:MET:HE1	2.00	0.61
2:j:97:ARG:HG3	2:j:98:MET:N	2.15	0.61
2:l:105:ILE:HG22	2:l:121:LEU:HB2	1.83	0.61
2:m:61:ILE:HG13	2:m:101:PHE:HZ	1.64	0.61
1:B:215:ILE:HG12	1:B:222:PHE:HA	1.83	0.60
1:G:14:THR:O	1:G:15:VAL:HG13	2.00	0.60
1:G:51:VAL:HG11	1:G:67:LYS:CG	2.31	0.60
2:g:69:ALA:O	2:g:71:LEU:N	2.34	0.60
1:K:50:ALA:HA	1:K:211:ASP:O	2.00	0.60
1:K:126:GLN:O	1:L:130:VAL:HG23	2.01	0.60
1:M:22:LEU:HD13	1:M:25:VAL:HG21	1.83	0.60
2:l:42:LYS:NZ	2:l:192:VAL:HB	2.16	0.60
2:m:49:MET:CE	2:m:62:VAL:HG22	2.31	0.60
2:m:111:ASP:O	2:m:112:LEU:C	2.44	0.60
1:B:223:LYS:HG3	1:B:224:LYS:N	2.16	0.60
1:D:173:VAL:C	1:D:175:GLU:N	2.59	0.60
1:G:102:LEU:CD1	2:g:64:LEU:HA	2.29	0.60
2:a:80:ILE:HD12	2:a:80:ILE:N	2.15	0.60
2:a:154:ASP:OD2	2:a:154:ASP:N	2.34	0.60
2:a:173:GLU:HG2	2:a:173:GLU:O	2.01	0.60
2:e:25:ARG:HB2	2:e:180:ASN:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:235:GLU:HA	1:I:235:GLU:OE2	2.01	0.60
1:J:170:ARG:HB2	1:J:171:PRO:HD3	1.83	0.60
1:J:188:ASP:HA	1:J:191:LEU:HB2	1.83	0.60
1:K:180:GLU:CD	1:K:180:GLU:N	2.56	0.60
1:L:32:VAL:HG22	1:L:80:SER:O	2.01	0.60
1:L:39:ILE:HG12	1:L:165:ALA:CB	2.26	0.60
2:h:96:SER:CA	2:h:99:PHE:HB2	2.31	0.60
1:F:16:PHE:HB3	1:G:24:GLN:OE1	2.02	0.60
1:G:15:VAL:HG21	1:G:24:GLN:CB	2.31	0.60
2:a:69:ALA:C	2:a:71:LEU:H	2.08	0.60
2:e:102:LEU:HA	2:e:123:PRO:HB3	1.82	0.60
2:g:49:MET:HB2	2:g:107:ILE:HG22	1.83	0.60
2:g:82:PRO:C	2:g:84:ALA:H	2.08	0.60
1:L:92:ARG:HD2	1:L:92:ARG:O	2.01	0.60
1:L:228:GLU:OE1	1:L:231:LYS:HD3	2.00	0.60
1:M:173:VAL:C	1:M:175:GLU:H	2.09	0.60
2:h:132:THR:HB	2:h:133:PHE:HD1	1.65	0.60
2:k:22:THR:HG21	2:k:39:LYS:C	2.27	0.60
2:k:97:ARG:HG3	2:k:98:MET:H	1.64	0.60
2:m:173:GLU:O	2:m:173:GLU:HG2	2.01	0.60
1:E:45:ASP:HB2	1:E:187:LEU:HG	1.82	0.60
1:F:231:LYS:O	1:F:235:GLU:HG2	2.01	0.60
2:a:8:THR:HB	2:a:178:SER:OG	2.02	0.60
2:c:94:HIS:O	2:c:97:ARG:HG2	2.01	0.60
2:d:86:ALA:O	2:d:127:MET:HE1	2.02	0.60
2:g:137:GLY:O	2:g:138:SER:C	2.44	0.60
1:K:84:ALA:O	1:K:88:VAL:HG22	2.00	0.60
1:M:122:GLN:O	1:M:125:THR:N	2.31	0.60
1:M:227:VAL:O	1:M:228:GLU:HB2	2.01	0.60
1:N:26:GLU:HA	1:N:29:ARG:HG3	1.81	0.60
1:N:75:VAL:HG22	1:N:141:GLY:HA3	1.82	0.60
2:i:8:THR:HB	2:i:178:SER:OG	2.02	0.60
1:A:41:ILE:O	1:A:47:VAL:HG23	2.02	0.60
1:A:133:PHE:HE2	1:G:126:GLN:NE2	1.99	0.60
1:C:37:THR:HG23	1:C:52:ASP:HB3	1.82	0.60
1:D:69:PHE:O	1:D:76:ALA:HB1	2.01	0.60
1:E:32:VAL:HG11	1:E:170:ARG:HH21	1.66	0.60
2:a:14:CYS:HB3	2:a:155:MET:O	2.01	0.60
2:d:62:VAL:O	2:d:66:ILE:HG13	2.01	0.60
2:f:121:LEU:HD11	2:f:127:MET:HE3	1.82	0.60
2:g:80:ILE:HD12	2:g:80:ILE:N	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:31:LEU:HD12	2:i:32:VAL:N	2.14	0.60
2:j:97:ARG:C	2:j:99:PHE:H	2.09	0.60
2:m:102:LEU:HD22	2:m:102:LEU:C	2.27	0.60
1:E:125:THR:HG22	1:F:131:ARG:NE	2.12	0.60
2:b:187:ILE:O	2:b:187:ILE:HD12	2.02	0.60
2:c:187:ILE:CG2	2:c:192:VAL:HG13	2.32	0.60
2:f:9:THR:OG1	2:f:136:THR:HG23	2.02	0.60
1:L:17:SER:HB3	1:L:21:ARG:O	2.02	0.60
1:M:70:GLN:HA	1:M:76:ALA:CB	2.31	0.60
2:i:195:PHE:HB3	2:i:200:ILE:HG12	1.83	0.60
2:k:86:ALA:C	2:k:127:MET:HE1	2.26	0.60
2:n:23:ASP:OD2	2:n:25:ARG:HB3	2.02	0.60
1:B:242:ASN:O	1:B:244:GLU:HG3	2.01	0.60
1:C:114:ALA:O	1:C:116:LYS:N	2.35	0.60
1:D:178:GLU:HA	1:E:59:LEU:HD11	1.82	0.60
1:E:114:ALA:O	1:E:117:ILE:HD13	2.01	0.60
1:F:38:ALA:HB2	1:F:51:VAL:HG13	1.83	0.60
1:F:231:LYS:O	1:F:234:ILE:HG22	2.02	0.60
1:G:102:LEU:HD11	2:g:64:LEU:HA	1.83	0.60
2:a:54:SER:CB	2:a:102:LEU:HD21	2.31	0.60
2:b:49:MET:HE1	2:b:62:VAL:HA	1.82	0.60
2:g:88:LEU:HB3	2:g:92:ILE:HD11	1.83	0.60
1:H:173:VAL:C	1:H:175:GLU:H	2.08	0.60
1:I:96:GLU:HG2	1:I:116:LYS:HG2	1.83	0.60
1:J:89:LEU:HD11	1:J:133:PHE:CD1	2.35	0.60
1:K:69:PHE:O	1:K:76:ALA:HB1	2.01	0.60
1:K:82:LEU:H	1:K:82:LEU:HD13	1.66	0.60
1:L:161:TYR:CE2	1:M:60:VAL:HG22	2.37	0.60
1:M:42:ALA:O	1:M:43:CYS:HB3	2.01	0.60
1:N:39:ILE:HG12	1:N:165:ALA:CB	2.32	0.60
2:h:90:SER:HB2	2:h:127:MET:HE3	1.84	0.60
1:A:14:THR:O	1:A:15:VAL:HG13	2.00	0.60
1:B:152:THR:HA	1:B:157:ALA:CB	2.32	0.60
1:E:150:PHE:CE1	1:E:160:GLU:HB2	2.36	0.60
1:F:85:ASP:HA	1:F:88:VAL:CG2	2.32	0.60
1:G:121:LYS:HG3	1:G:133:PHE:HD1	1.66	0.60
1:G:177:LEU:O	1:G:179:LYS:N	2.34	0.60
2:c:188:THR:OG1	2:c:189:LYS:HE3	2.01	0.60
2:f:31:LEU:HD12	2:f:32:VAL:N	2.16	0.60
2:f:54:SER:CB	2:f:102:LEU:HD21	2.32	0.60
1:L:203:GLU:O	1:L:204:ASP:HB2	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:214:ILE:N	1:L:214:ILE:HD12	2.16	0.60
2:m:9:THR:HG22	2:m:22:THR:HG22	1.82	0.60
2:m:31:LEU:HD12	2:m:32:VAL:N	2.17	0.60
2:m:106:ILE:HD11	2:m:136:THR:HG22	1.83	0.60
2:m:188:THR:OG1	2:m:189:LYS:HE3	2.02	0.60
1:A:102:LEU:CD1	2:a:64:LEU:HA	2.32	0.60
1:C:207:PRO:C	1:C:208:GLU:HG3	2.27	0.60
1:C:212:VAL:HG11	1:C:225:ILE:HD12	1.84	0.60
2:c:150:GLY:O	2:c:163:LEU:HD22	2.02	0.60
2:f:65:LEU:HD23	2:f:65:LEU:C	2.27	0.60
1:H:203:GLU:O	1:H:204:ASP:HB2	2.02	0.60
1:H:207:PRO:C	1:H:208:GLU:HG3	2.26	0.60
1:L:153:ASP:C	1:L:155:SER:H	2.09	0.60
1:L:231:LYS:O	1:L:234:ILE:HG22	2.02	0.60
1:C:208:GLU:C	1:C:210:VAL:N	2.56	0.60
1:D:13:ILE:HG12	1:E:13:ILE:HG21	1.82	0.60
1:F:53:ARG:HB3	1:F:65:ILE:HD11	1.83	0.60
2:b:188:THR:O	2:b:189:LYS:C	2.45	0.60
2:f:7:THR:CG2	2:f:138:SER:H	2.10	0.60
2:f:69:ALA:HA	2:f:80:ILE:HG12	1.82	0.60
1:H:85:ASP:HA	1:H:88:VAL:CG2	2.31	0.60
1:I:227:VAL:O	1:I:228:GLU:HB2	2.02	0.60
1:I:241:LEU:C	1:I:242:ASN:CG	2.70	0.60
1:L:89:LEU:HD21	1:L:133:PHE:CD1	2.37	0.60
1:M:102:LEU:HD12	2:m:64:LEU:HA	1.83	0.60
2:h:102:LEU:O	2:h:102:LEU:HD13	2.02	0.60
2:m:40:LEU:CD1	2:m:50:THR:HG22	2.32	0.60
1:D:90:ILE:C	1:D:92:ARG:N	2.58	0.59
1:D:125:THR:HG22	1:E:131:ARG:NE	2.17	0.59
1:E:184:ASP:O	1:E:185:ILE:C	2.44	0.59
1:E:235:GLU:HA	1:E:235:GLU:OE2	2.00	0.59
1:G:32:VAL:C	1:G:34:ARG:H	2.09	0.59
1:G:170:ARG:HB2	1:G:171:PRO:HD3	1.83	0.59
1:H:221:GLN:HG2	1:H:222:PHE:N	2.17	0.59
1:J:85:ASP:HA	1:J:88:VAL:CG2	2.32	0.59
1:L:14:THR:O	1:L:15:VAL:HG13	2.01	0.59
1:L:72:ASP:O	1:L:74:HIS:N	2.35	0.59
2:h:16:ASP:HB3	2:h:189:LYS:HZ1	1.67	0.59
2:j:83:LEU:HD22	2:j:117:LYS:HG3	1.84	0.59
2:k:9:THR:HG21	2:k:50:THR:HB	1.84	0.59
2:n:72:TYR:C	2:n:72:TYR:CD2	2.80	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:135:VAL:O	1:A:154:PRO:HD3	2.02	0.59
2:c:62:VAL:O	2:c:66:ILE:HG13	2.03	0.59
2:e:111:ASP:OD1	2:e:113:LEU:HD23	2.01	0.59
2:f:102:LEU:HD22	2:f:102:LEU:C	2.28	0.59
1:I:129:GLY:O	1:I:130:VAL:HB	2.02	0.59
1:L:102:LEU:CD1	2:l:64:LEU:HA	2.32	0.59
2:i:96:SER:HB3	2:i:101:PHE:HB2	1.84	0.59
2:i:101:PHE:HD1	2:i:102:LEU:N	1.98	0.59
2:j:187:ILE:HG22	2:j:192:VAL:HG22	1.83	0.59
2:k:42:LYS:HD2	2:k:192:VAL:HB	1.83	0.59
2:n:103:THR:C	2:n:123:PRO:HG3	2.27	0.59
2:n:142:ILE:HG21	2:n:171:ALA:HA	1.84	0.59
1:A:155:SER:O	1:B:84:ALA:HB2	2.02	0.59
2:a:184:LEU:HD23	2:a:185:ALA:N	2.17	0.59
1:M:22:LEU:HD22	1:M:25:VAL:HG23	1.84	0.59
2:h:65:LEU:HD23	2:h:65:LEU:C	2.28	0.59
2:k:172:MET:CB	2:k:179:GLY:HA2	2.32	0.59
2:l:86:ALA:C	2:l:88:LEU:N	2.59	0.59
1:A:71:ILE:HG21	1:A:113:LEU:HD21	1.85	0.59
1:A:131:ARG:NE	1:G:125:THR:HG22	2.09	0.59
1:D:68:ILE:N	1:D:68:ILE:CD1	2.64	0.59
1:E:173:VAL:C	1:E:175:GLU:H	2.09	0.59
1:F:30:GLU:CD	1:F:33:ARG:HH12	2.11	0.59
2:b:110:TYR:CD2	2:b:189:LYS:HA	2.38	0.59
1:H:152:THR:HA	1:H:157:ALA:CB	2.32	0.59
1:M:190:GLY:HA2	1:M:193:LEU:HB2	1.84	0.59
1:N:122:GLN:O	1:N:125:THR:HB	2.03	0.59
2:i:76:THR:O	2:i:78:ARG:N	2.36	0.59
2:j:49:MET:HB3	2:j:107:ILE:HG22	1.84	0.59
2:l:106:ILE:HD11	2:l:136:THR:HG22	1.83	0.59
2:m:61:ILE:HG13	2:m:101:PHE:CZ	2.37	0.59
2:m:203:ILE:C	2:m:205:ASP:H	2.10	0.59
1:A:160:GLU:H	1:B:64:SER:CB	2.15	0.59
1:E:18:PRO:HA	1:F:27:TYR:CD1	2.37	0.59
1:G:192:GLU:HA	1:G:195:ILE:CD1	2.30	0.59
2:b:9:THR:OG1	2:b:136:THR:HG23	2.03	0.59
2:c:86:ALA:C	2:c:127:MET:HE1	2.27	0.59
1:H:26:GLU:HG2	1:H:29:ARG:NE	2.06	0.59
1:K:52:ASP:HB2	1:K:198:LEU:CD2	2.31	0.59
1:L:202:ASN:ND2	1:L:205:ILE:HG23	2.16	0.59
1:M:36:THR:HA	1:M:54:ARG:NH1	2.14	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:102:LEU:CD1	2:m:64:LEU:HA	2.33	0.59
2:h:140:SER:N	2:h:141:PRO:HD2	2.18	0.59
2:l:111:ASP:O	2:l:112:LEU:C	2.45	0.59
2:m:122:ASP:C	2:m:122:ASP:OD2	2.45	0.59
1:B:62:ILE:HG22	1:B:62:ILE:O	2.03	0.59
2:d:104:GLN:O	2:d:105:ILE:HG13	2.03	0.59
2:f:49:MET:CE	2:f:62:VAL:HG13	2.33	0.59
2:g:140:SER:N	2:g:141:PRO:HD2	2.16	0.59
1:J:64:SER:O	1:J:66:GLU:N	2.36	0.59
1:K:32:VAL:HG11	1:K:170:ARG:HH21	1.66	0.59
1:K:242:ASN:O	1:K:244:GLU:HG3	2.03	0.59
1:L:186:THR:H	1:L:189:GLU:HB3	1.66	0.59
1:N:99:ILE:HG22	1:N:100:TYR:N	2.18	0.59
1:N:153:ASP:C	1:N:155:SER:H	2.11	0.59
2:h:17:ALA:HB1	2:h:187:ILE:O	2.01	0.59
2:j:89:LEU:O	2:j:93:LEU:HD23	2.03	0.59
2:n:94:HIS:CD2	2:n:97:ARG:HD3	2.37	0.59
1:C:210:VAL:CG2	1:C:230:ILE:HG21	2.31	0.59
1:F:75:VAL:HG22	1:F:141:GLY:HA3	1.85	0.59
2:f:58:ALA:O	2:f:62:VAL:HG23	2.02	0.59
1:H:51:VAL:HG11	1:H:67:LYS:CG	2.32	0.59
1:I:109:SER:HB2	2:j:78:ARG:HH22	1.67	0.59
1:K:207:PRO:C	1:K:208:GLU:HG3	2.28	0.59
1:L:236:LYS:O	1:L:237:VAL:HG23	2.03	0.59
2:n:23:ASP:O	2:n:25:ARG:N	2.36	0.59
2:n:83:LEU:HD23	2:n:83:LEU:H	1.65	0.59
1:B:48:VAL:HG22	1:B:214:ILE:HA	1.85	0.59
1:B:158:LEU:HD12	1:C:83:VAL:HG13	1.84	0.59
1:F:188:ASP:HA	1:F:191:LEU:HB2	1.85	0.59
1:G:182:ARG:C	1:G:184:ASP:N	2.53	0.59
1:G:206:LYS:HB2	1:G:209:ASN:HB2	1.83	0.59
2:b:172:MET:HE3	2:b:179:GLY:C	2.28	0.59
2:c:31:LEU:HD12	2:c:32:VAL:N	2.17	0.59
2:c:93:LEU:HD12	2:c:123:PRO:O	2.03	0.59
2:c:188:THR:O	2:c:189:LYS:C	2.44	0.59
2:d:43:ILE:HG22	2:d:66:ILE:HG12	1.85	0.59
2:d:130:GLU:HG2	2:d:134:THR:HB	1.84	0.59
2:e:35:LYS:O	2:e:36:GLU:HG3	2.03	0.59
2:f:83:LEU:HD22	2:f:117:LYS:HE3	1.85	0.59
2:g:202:LYS:HG3	2:g:203:ILE:N	2.15	0.59
1:I:38:ALA:CB	1:I:51:VAL:HG13	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:124:TYR:CE1	1:L:130:VAL:HG21	2.38	0.59
2:i:60:ALA:HA	2:i:63:ARG:NH2	2.17	0.59
2:l:147:LEU:O	2:l:149:ALA:N	2.35	0.59
1:F:15:VAL:HB	1:F:23:TYR:HB2	1.84	0.59
1:F:52:ASP:CB	1:F:198:LEU:HD21	2.31	0.59
1:F:173:VAL:C	1:F:175:GLU:H	2.09	0.59
2:c:80:ILE:N	2:c:80:ILE:HD12	2.18	0.59
2:e:152:ASP:O	2:e:153:ARG:C	2.45	0.59
2:f:161:ILE:O	2:f:165:LEU:HG	2.03	0.59
1:H:62:ILE:HG22	1:H:62:ILE:O	2.03	0.59
1:I:217:VAL:HG13	1:I:218:LYS:HD3	1.84	0.59
1:J:228:GLU:HA	1:J:231:LYS:HB3	1.83	0.59
1:K:23:TYR:O	1:K:24:GLN:C	2.43	0.59
1:N:202:ASN:HB3	1:N:205:ILE:HG12	1.85	0.59
2:h:184:LEU:HD23	2:h:185:ALA:H	1.67	0.59
2:i:72:TYR:C	2:i:72:TYR:HD2	2.11	0.59
2:j:19:ILE:O	2:j:20:LEU:HD23	2.03	0.59
2:j:199:GLU:O	2:j:200:ILE:C	2.46	0.59
2:k:144:TYR:O	2:k:145:GLY:C	2.45	0.59
2:n:176:THR:HG1	2:n:177:PHE:HD2	1.50	0.59
1:A:242:ASN:O	1:A:244:GLU:HG3	2.03	0.59
1:B:14:THR:HG22	1:B:15:VAL:N	2.17	0.59
2:b:132:THR:HB	2:b:133:PHE:CD1	2.37	0.59
2:b:137:GLY:O	2:b:140:SER:N	2.36	0.59
2:c:7:THR:N	2:c:23:ASP:OD1	2.35	0.59
2:c:155:MET:O	2:c:156:SER:O	2.20	0.59
2:d:7:THR:HA	2:d:39:LYS:NZ	2.18	0.59
2:d:106:ILE:HD11	2:d:136:THR:HG22	1.84	0.59
2:g:96:SER:CA	2:g:99:PHE:HB2	2.32	0.59
1:H:40:GLY:HA2	1:H:49:LEU:HD12	1.83	0.59
1:J:180:GLU:CD	1:J:180:GLU:N	2.59	0.59
1:N:47:VAL:HG21	1:N:140:ALA:HB1	1.83	0.59
2:l:80:ILE:H	2:l:80:ILE:HD12	1.67	0.59
1:B:61:LYS:HE2	1:B:63:ARG:HG2	1.84	0.58
1:D:45:ASP:HA	1:D:218:LYS:HE2	1.83	0.58
1:G:36:THR:HA	1:G:54:ARG:NH1	2.18	0.58
2:d:132:THR:HB	2:d:133:PHE:CD1	2.37	0.58
2:d:140:SER:N	2:d:141:PRO:HD2	2.18	0.58
2:e:169:LYS:NZ	2:e:204:LEU:HD11	2.18	0.58
1:H:102:LEU:CD2	1:H:103:THR:HG23	2.33	0.58
1:H:215:ILE:HG12	1:H:222:PHE:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:238:LYS:N	1:H:238:LYS:HD2	2.18	0.58
1:K:83:VAL:HA	1:K:86:ALA:HB2	1.85	0.58
1:K:214:ILE:HD11	1:K:225:ILE:HG13	1.85	0.58
1:K:226:PRO:HG2	1:K:229:GLU:CG	2.32	0.58
1:L:114:ALA:C	1:L:116:LYS:N	2.59	0.58
1:L:126:GLN:HB3	1:M:131:ARG:CZ	2.33	0.58
1:L:226:PRO:HG2	1:L:229:GLU:HG2	1.85	0.58
1:M:152:THR:HA	1:M:157:ALA:HB3	1.84	0.58
1:M:238:LYS:HD2	1:M:238:LYS:H	1.66	0.58
1:N:50:ALA:HA	1:N:211:ASP:O	2.03	0.58
2:k:23:ASP:OD2	2:k:25:ARG:HB3	2.03	0.58
2:l:94:HIS:NE2	2:l:97:ARG:HD3	2.18	0.58
2:m:135:ALA:N	2:m:144:TYR:HE1	1.99	0.58
1:D:226:PRO:HG2	1:D:229:GLU:HG2	1.85	0.58
1:G:71:ILE:HG21	1:G:113:LEU:HD21	1.85	0.58
1:G:83:VAL:HA	1:G:86:ALA:HB2	1.84	0.58
2:a:199:GLU:O	2:a:200:ILE:C	2.46	0.58
2:f:12:LEU:N	2:f:12:LEU:CD2	2.66	0.58
2:g:19:ILE:HG12	2:g:161:ILE:HG23	1.84	0.58
1:K:32:VAL:CG1	1:K:170:ARG:HH21	2.16	0.58
2:i:25:ARG:HD2	2:i:180:ASN:HB2	1.84	0.58
2:n:187:ILE:O	2:n:187:ILE:HD12	2.03	0.58
1:F:39:ILE:HD11	1:F:173:VAL:HG21	1.85	0.58
1:F:214:ILE:HD11	1:F:225:ILE:HG13	1.84	0.58
1:G:152:THR:HA	1:G:157:ALA:CB	2.32	0.58
2:c:23:ASP:OD2	2:c:25:ARG:HB3	2.03	0.58
2:d:59:GLN:HA	2:d:59:GLN:HE21	1.67	0.58
2:f:7:THR:HG22	2:f:138:SER:N	2.13	0.58
1:H:102:LEU:HD23	1:H:103:THR:HG23	1.83	0.58
1:I:124:TYR:CD1	1:I:133:PHE:CE2	2.92	0.58
1:K:26:GLU:HA	1:K:29:ARG:HG3	1.85	0.58
1:L:173:VAL:C	1:L:175:GLU:H	2.10	0.58
2:h:8:THR:HG23	2:h:8:THR:O	2.02	0.58
2:j:204:LEU:HA	2:j:207:MET:HB2	1.85	0.58
2:k:12:LEU:N	2:k:12:LEU:CD2	2.66	0.58
2:k:106:ILE:HD11	2:k:136:THR:HG22	1.86	0.58
1:A:148:ARG:HD2	1:A:160:GLU:OE1	2.03	0.58
1:A:170:ARG:HB2	1:A:171:PRO:HD3	1.85	0.58
1:D:182:ARG:O	1:D:184:ASP:N	2.36	0.58
1:G:90:ILE:C	1:G:92:ARG:N	2.61	0.58
1:G:148:ARG:HD2	1:G:160:GLU:CD	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:18:VAL:HG23	2:b:116:ALA:HB1	1.85	0.58
2:d:175:ASP:C	2:d:175:ASP:OD2	2.46	0.58
2:f:102:LEU:HD22	2:f:103:THR:CA	2.33	0.58
2:g:7:THR:N	2:g:23:ASP:OD1	2.37	0.58
1:K:160:GLU:HB3	1:L:64:SER:CB	2.33	0.58
1:M:175:GLU:HA	1:M:178:GLU:HB2	1.84	0.58
2:h:25:ARG:HH11	2:h:32:VAL:CG2	2.16	0.58
2:i:59:GLN:HG3	2:j:126:GLY:HA2	1.85	0.58
2:l:19:ILE:O	2:l:20:LEU:HD23	2.02	0.58
2:l:184:LEU:HD22	2:l:195:PHE:CE1	2.38	0.58
1:A:48:VAL:HG12	1:A:49:LEU:N	2.18	0.58
1:A:82:LEU:HD11	1:A:134:GLY:HA3	1.84	0.58
2:a:83:LEU:HB3	2:a:119:PHE:CZ	2.37	0.58
2:b:83:LEU:HB3	2:b:119:PHE:HZ	1.68	0.58
2:e:169:LYS:HE3	2:e:204:LEU:HD21	1.85	0.58
1:I:242:ASN:C	1:I:244:GLU:H	2.11	0.58
1:J:41:ILE:HG23	1:J:163:ALA:HB2	1.86	0.58
2:j:172:MET:CE	2:j:179:GLY:HA2	2.33	0.58
2:l:140:SER:OG	2:l:141:PRO:HD3	2.04	0.58
2:m:12:LEU:CD2	2:m:19:ILE:HB	2.34	0.58
2:m:49:MET:HE1	2:m:62:VAL:HA	1.85	0.58
1:B:137:LEU:O	1:B:138:LEU:HD23	2.02	0.58
1:C:152:THR:HA	1:C:157:ALA:CB	2.34	0.58
1:E:112:MET:HA	1:E:112:MET:HE3	1.85	0.58
1:F:142:ILE:HG23	1:F:217:VAL:HG23	1.85	0.58
2:b:25:ARG:HB2	2:b:180:ASN:HB3	1.84	0.58
2:b:172:MET:HE3	2:b:179:GLY:CA	2.34	0.58
2:d:8:THR:HB	2:d:178:SER:OG	2.03	0.58
2:d:8:THR:HA	2:d:137:GLY:HA3	1.85	0.58
2:e:80:ILE:HD12	2:e:80:ILE:N	2.18	0.58
2:f:110:TYR:CD2	2:f:189:LYS:HA	2.39	0.58
1:I:39:ILE:HG12	1:I:165:ALA:CB	2.32	0.58
1:J:82:LEU:HD11	1:J:134:GLY:HA3	1.84	0.58
1:K:18:PRO:C	1:L:27:TYR:CD1	2.81	0.58
1:L:239:LYS:HE3	1:L:240:LYS:HZ1	1.69	0.58
2:h:103:THR:H	2:h:123:PRO:CB	2.16	0.58
2:j:52:ALA:HB3	2:j:104:GLN:HB2	1.85	0.58
2:k:96:SER:CB	2:k:101:PHE:HB2	2.32	0.58
2:k:172:MET:HG2	2:k:179:GLY:HA2	1.84	0.58
2:n:25:ARG:HH11	2:n:32:VAL:CG2	2.15	0.58
1:A:238:LYS:N	1:A:238:LYS:HD2	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:45:ASP:HA	1:B:218:LYS:NZ	2.18	0.58
1:C:231:LYS:O	1:C:234:ILE:HG22	2.03	0.58
1:D:227:VAL:HA	1:D:230:ILE:HD12	1.86	0.58
1:E:14:THR:CG2	1:E:15:VAL:HG22	2.32	0.58
1:E:89:LEU:CD2	1:E:121:LYS:HD3	2.33	0.58
1:E:199:THR:CA	1:E:205:ILE:HD11	2.27	0.58
1:F:104:TYR:CE1	2:g:88:LEU:HD11	2.39	0.58
2:b:43:ILE:HD11	2:b:47:ILE:CG2	2.33	0.58
1:H:182:ARG:C	1:H:184:ASP:H	2.11	0.58
1:M:82:LEU:HD13	1:M:82:LEU:N	2.17	0.58
2:i:44:ASP:OD1	2:i:79:ASN:HB3	2.03	0.58
2:j:54:SER:CB	2:j:102:LEU:HD11	2.34	0.58
2:m:104:GLN:O	2:m:105:ILE:HG13	2.03	0.58
1:D:71:ILE:HG23	1:D:94:ARG:HA	1.86	0.58
1:E:141:GLY:O	1:E:147:ALA:HA	2.03	0.58
1:G:51:VAL:HG11	1:G:67:LYS:HG3	1.86	0.58
2:a:82:PRO:C	2:a:84:ALA:H	2.12	0.58
2:c:133:PHE:HZ	2:c:148:GLU:OE2	1.87	0.58
1:H:22:LEU:HD23	1:H:22:LEU:C	2.29	0.58
1:M:68:ILE:HG22	1:M:78:ALA:HB2	1.85	0.58
1:N:233:LEU:C	1:N:235:GLU:H	2.12	0.58
2:k:172:MET:CE	2:k:179:GLY:HA2	2.34	0.58
1:C:18:PRO:HD2	1:C:19:GLU:OE1	2.03	0.58
1:D:51:VAL:HG21	1:D:68:ILE:HG23	1.86	0.58
1:G:173:VAL:C	1:G:175:GLU:H	2.11	0.58
2:f:102:LEU:O	2:f:103:THR:HB	2.04	0.58
1:J:190:GLY:O	1:J:191:LEU:C	2.46	0.58
1:J:214:ILE:HD12	1:J:214:ILE:H	1.69	0.58
1:K:173:VAL:HA	1:K:176:LEU:HB3	1.86	0.58
1:N:102:LEU:C	1:N:102:LEU:HD23	2.29	0.58
1:N:124:TYR:CD1	1:N:133:PHE:CZ	2.92	0.58
2:i:58:ALA:O	2:i:62:VAL:HG23	2.04	0.58
2:j:79:ASN:O	2:j:80:ILE:C	2.47	0.58
2:k:184:LEU:HB3	2:k:195:PHE:HD1	1.66	0.58
2:n:150:GLY:O	2:n:163:LEU:HD22	2.03	0.58
1:B:45:ASP:OD1	1:B:186:THR:HB	2.04	0.58
1:D:26:GLU:CG	1:D:29:ARG:HE	2.04	0.58
1:F:168:SER:OG	1:F:169:GLY:N	2.35	0.58
1:F:202:ASN:HB3	1:F:205:ILE:HG12	1.86	0.58
2:a:52:ALA:HB3	2:a:104:GLN:CB	2.32	0.58
2:d:61:ILE:HG13	2:d:101:PHE:CZ	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:g:72:TYR:C	2:g:72:TYR:CD2	2.82	0.58
1:H:55:ILE:HD13	1:H:62:ILE:HG12	1.86	0.58
1:H:61:LYS:HE2	1:H:63:ARG:CG	2.34	0.58
1:I:101:ARG:HH11	1:I:107:GLU:HG2	1.69	0.58
1:I:173:VAL:C	1:I:175:GLU:H	2.11	0.58
1:I:228:GLU:OE1	1:I:231:LYS:HD3	2.02	0.58
1:L:32:VAL:CG1	1:L:170:ARG:HH21	2.17	0.58
2:j:96:SER:CA	2:j:99:PHE:HB2	2.34	0.58
2:k:195:PHE:HB3	2:k:199:GLU:OE1	2.03	0.58
1:C:130:VAL:HG13	1:C:130:VAL:O	2.02	0.57
1:G:95:LEU:C	1:G:97:ALA:H	2.12	0.57
2:b:61:ILE:HG13	2:b:101:PHE:HZ	1.69	0.57
2:b:80:ILE:HD12	2:b:80:ILE:N	2.18	0.57
2:c:82:PRO:C	2:c:84:ALA:H	2.12	0.57
1:J:53:ARG:HB3	1:J:65:ILE:CD1	2.34	0.57
1:K:68:ILE:HG22	1:K:78:ALA:HB2	1.86	0.57
1:N:162:LYS:O	1:N:163:ALA:HB2	2.04	0.57
2:h:97:ARG:C	2:h:99:PHE:N	2.59	0.57
2:i:35:LYS:O	2:i:36:GLU:HG3	2.04	0.57
2:l:21:ALA:HB1	2:l:168:LEU:HD11	1.86	0.57
2:l:86:ALA:C	2:l:127:MET:HE1	2.29	0.57
1:A:57:SER:OG	1:A:59:LEU:HD13	2.04	0.57
1:A:75:VAL:HG21	1:A:110:ILE:HG12	1.85	0.57
1:D:32:VAL:HG22	1:D:80:SER:O	2.04	0.57
1:D:57:SER:OG	1:D:59:LEU:HD13	2.04	0.57
2:c:97:ARG:C	2:c:99:PHE:H	2.12	0.57
2:f:169:LYS:CE	2:f:204:LEU:HD21	2.34	0.57
1:H:41:ILE:O	1:H:47:VAL:HG23	2.04	0.57
1:I:89:LEU:HD21	1:I:133:PHE:CD1	2.39	0.57
1:J:104:TYR:CE1	2:k:88:LEU:CD1	2.87	0.57
1:N:90:ILE:HD12	1:N:94:ARG:HD2	1.86	0.57
2:i:187:ILE:CG2	2:i:192:VAL:HG13	2.34	0.57
2:m:31:LEU:HD12	2:m:32:VAL:H	1.68	0.57
1:A:126:GLN:HB3	1:B:131:ARG:NE	2.20	0.57
1:B:93:ALA:HB2	1:B:117:ILE:HG21	1.86	0.57
2:b:100:PRO:O	2:c:97:ARG:NH2	2.36	0.57
2:c:12:LEU:N	2:c:12:LEU:HD23	2.20	0.57
1:H:52:ASP:HB2	1:H:198:LEU:CD2	2.33	0.57
1:I:16:PHE:HB3	1:J:24:GLN:CD	2.30	0.57
2:h:93:LEU:HB3	2:h:124:LEU:O	2.05	0.57
2:i:55:VAL:O	2:i:57:ASP:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:49:MET:HE1	2:k:62:VAL:HA	1.85	0.57
2:k:54:SER:CB	2:k:102:LEU:HD21	2.31	0.57
2:m:202:LYS:CG	2:m:203:ILE:N	2.60	0.57
1:A:40:GLY:HA2	1:A:49:LEU:HD12	1.86	0.57
1:B:36:THR:HA	1:B:54:ARG:HH12	1.70	0.57
1:B:61:LYS:HG2	1:B:63:ARG:HG2	1.86	0.57
1:C:170:ARG:CB	1:C:171:PRO:HD3	2.32	0.57
1:E:26:GLU:HA	1:E:29:ARG:HG3	1.87	0.57
2:b:43:ILE:HD13	2:b:47:ILE:O	2.04	0.57
2:c:83:LEU:HD22	2:c:117:LYS:HE3	1.86	0.57
2:c:152:ASP:O	2:c:155:MET:HG2	2.03	0.57
2:e:49:MET:CE	2:e:62:VAL:HG13	2.31	0.57
2:g:140:SER:OG	2:g:141:PRO:CD	2.52	0.57
1:N:102:LEU:HD23	1:N:103:THR:HG23	1.85	0.57
1:N:153:ASP:O	1:N:155:SER:N	2.37	0.57
2:h:72:TYR:CD2	2:h:72:TYR:C	2.81	0.57
2:i:8:THR:HG23	2:i:8:THR:O	2.05	0.57
2:c:25:ARG:HH11	2:c:32:VAL:HG21	1.70	0.57
2:f:188:THR:O	2:f:189:LYS:C	2.47	0.57
1:K:68:ILE:N	1:K:68:ILE:CD1	2.58	0.57
1:K:71:ILE:O	2:k:74:MET:HE1	2.04	0.57
1:L:15:VAL:HG11	1:L:24:GLN:HG2	1.85	0.57
1:M:41:ILE:O	1:M:47:VAL:HG23	2.04	0.57
2:j:16:ASP:HB3	2:j:189:LYS:HZ2	1.70	0.57
2:j:51:ILE:HG21	2:j:58:ALA:HB1	1.87	0.57
2:j:102:LEU:HA	2:j:123:PRO:HB3	1.85	0.57
2:l:82:PRO:C	2:l:84:ALA:H	2.11	0.57
1:E:51:VAL:HG11	1:E:67:LYS:CG	2.34	0.57
1:F:22:LEU:HD23	1:F:22:LEU:C	2.29	0.57
2:b:140:SER:OG	2:b:141:PRO:CD	2.52	0.57
2:c:12:LEU:O	2:c:18:VAL:HG13	2.04	0.57
2:d:20:LEU:O	2:d:184:LEU:HD23	2.05	0.57
2:e:9:THR:OG1	2:e:136:THR:CG2	2.52	0.57
2:e:151:TYR:HA	2:e:155:MET:SD	2.44	0.57
1:H:187:LEU:O	1:H:191:LEU:N	2.38	0.57
1:I:72:ASP:OD2	1:I:98:GLN:NE2	2.37	0.57
1:J:53:ARG:HB3	1:J:65:ILE:HD13	1.86	0.57
1:M:23:TYR:O	1:M:24:GLN:C	2.48	0.57
1:N:22:LEU:HD13	1:N:25:VAL:HG11	1.86	0.57
2:h:10:VAL:CG2	2:h:21:ALA:HB3	2.34	0.57
2:m:65:LEU:HD12	2:m:89:LEU:HD21	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:m:137:GLY:O	2:m:138:SER:C	2.48	0.57
2:n:96:SER:HB3	2:n:101:PHE:HB2	1.87	0.57
1:A:39:ILE:HG12	1:A:165:ALA:CB	2.34	0.57
1:C:90:ILE:O	1:C:94:ARG:HG3	2.04	0.57
1:F:212:VAL:HG11	1:F:225:ILE:HD12	1.86	0.57
1:G:83:VAL:HA	1:G:86:ALA:CB	2.35	0.57
2:c:101:PHE:HD1	2:c:102:LEU:N	2.02	0.57
2:d:201:GLU:O	2:d:202:LYS:C	2.47	0.57
1:I:202:ASN:ND2	1:I:205:ILE:HG23	2.19	0.57
1:K:155:SER:O	1:L:84:ALA:HB2	2.04	0.57
1:K:198:LEU:O	1:K:199:THR:C	2.47	0.57
1:L:202:ASN:HB3	1:L:205:ILE:HG12	1.86	0.57
2:i:137:GLY:O	2:i:138:SER:C	2.47	0.57
2:l:49:MET:HE1	2:l:62:VAL:HA	1.85	0.57
1:B:173:VAL:C	1:B:175:GLU:H	2.11	0.57
1:C:166:ILE:HA	1:C:170:ARG:HG2	1.86	0.57
1:D:114:ALA:O	1:D:117:ILE:HD13	2.04	0.57
1:E:151:GLU:OE1	1:E:159:ILE:HD12	2.04	0.57
1:F:69:PHE:CD2	1:F:90:ILE:HG21	2.39	0.57
1:F:106:GLU:OE2	2:g:81:PRO:HG2	2.05	0.57
2:b:54:SER:HB2	2:b:102:LEU:HD21	1.87	0.57
2:d:65:LEU:C	2:d:65:LEU:HD23	2.30	0.57
2:d:184:LEU:HD23	2:d:185:ALA:N	2.19	0.57
2:f:10:VAL:HG12	2:f:135:ALA:HB2	1.87	0.57
2:f:113:LEU:HG	2:f:114:GLU:N	2.19	0.57
2:g:140:SER:H	2:g:141:PRO:HD2	1.70	0.57
1:K:64:SER:O	1:K:66:GLU:N	2.38	0.57
1:K:86:ALA:O	1:K:87:ARG:C	2.46	0.57
1:L:239:LYS:HG3	1:L:240:LYS:CE	2.33	0.57
2:h:96:SER:HB3	2:h:101:PHE:HB2	1.86	0.57
2:h:176:THR:HG1	2:h:177:PHE:HD2	1.52	0.57
2:k:12:LEU:HD21	2:k:19:ILE:HB	1.87	0.57
2:k:111:ASP:O	2:k:112:LEU:C	2.47	0.57
2:m:86:ALA:C	2:m:127:MET:HE1	2.29	0.57
2:n:104:GLN:O	2:n:105:ILE:HG13	2.04	0.57
1:A:15:VAL:HG21	1:A:24:GLN:HB2	1.87	0.57
1:A:137:LEU:HB2	1:A:152:THR:OG1	2.05	0.57
1:E:170:ARG:CB	1:E:171:PRO:HD3	2.34	0.57
1:G:85:ASP:HA	1:G:88:VAL:CG2	2.34	0.57
2:e:187:ILE:CG2	2:e:192:VAL:HG13	2.35	0.57
2:f:51:ILE:CG2	2:f:58:ALA:HB1	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:184:LEU:HD23	2:f:185:ALA:N	2.20	0.57
2:g:7:THR:HA	2:g:39:LYS:NZ	2.20	0.57
1:J:25:VAL:CG2	1:J:26:GLU:N	2.67	0.57
1:K:75:VAL:HG21	1:K:110:ILE:HG12	1.87	0.57
1:K:87:ARG:O	1:K:88:VAL:C	2.45	0.57
1:N:32:VAL:C	1:N:34:ARG:N	2.61	0.57
2:i:184:LEU:HD22	2:i:195:PHE:HE1	1.70	0.57
2:l:188:THR:O	2:l:189:LYS:C	2.47	0.57
1:B:112:MET:O	1:B:113:LEU:C	2.46	0.57
1:C:125:THR:CG2	1:D:131:ARG:HH21	2.18	0.57
1:D:192:GLU:O	1:D:193:LEU:C	2.47	0.57
2:a:65:LEU:O	2:a:68:GLU:N	2.37	0.57
2:c:96:SER:CA	2:c:99:PHE:HB2	2.34	0.57
2:c:102:LEU:O	2:c:103:THR:CB	2.48	0.57
2:e:63:ARG:NH1	2:e:63:ARG:HB2	2.20	0.57
2:g:86:ALA:C	2:g:127:MET:HE1	2.29	0.57
1:J:65:ILE:O	1:J:65:ILE:HG12	2.03	0.57
1:K:182:ARG:C	1:K:184:ASP:N	2.63	0.57
1:N:96:GLU:OE2	1:N:116:LYS:HE2	2.04	0.57
2:i:173:GLU:HG2	2:i:173:GLU:O	2.04	0.57
2:n:10:VAL:HG12	2:n:135:ALA:HB2	1.87	0.57
2:n:55:VAL:HG23	2:n:56:GLY:H	1.70	0.57
1:A:173:VAL:HA	1:A:176:LEU:HB3	1.87	0.56
1:C:82:LEU:HD11	1:C:134:GLY:HA3	1.87	0.56
1:C:95:LEU:HD12	2:c:71:LEU:HD11	1.86	0.56
1:E:20:GLY:HA2	1:F:31:ALA:HA	1.87	0.56
1:F:25:VAL:CG2	1:F:26:GLU:N	2.68	0.56
1:F:106:GLU:O	1:F:107:GLU:C	2.47	0.56
2:a:43:ILE:HG21	2:a:65:LEU:HD22	1.87	0.56
2:e:31:LEU:HD12	2:e:32:VAL:N	2.19	0.56
2:e:120:SER:O	2:e:121:LEU:HD13	2.05	0.56
2:e:187:ILE:HG23	2:e:192:VAL:HG13	1.86	0.56
1:K:238:LYS:N	1:K:238:LYS:HD2	2.20	0.56
2:l:44:ASP:OD1	2:l:79:ASN:HB3	2.05	0.56
2:l:140:SER:OG	2:l:141:PRO:CD	2.53	0.56
2:m:17:ALA:HB1	2:m:187:ILE:O	2.04	0.56
2:m:203:ILE:HG22	2:m:207:MET:SD	2.45	0.56
1:A:84:ALA:HB1	1:G:122:GLN:CG	2.35	0.56
1:A:124:TYR:CE1	1:A:130:VAL:HG21	2.40	0.56
1:B:102:LEU:CD1	2:b:64:LEU:HA	2.35	0.56
1:C:48:VAL:HG22	1:C:214:ILE:HG23	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:32:VAL:O	1:D:34:ARG:N	2.39	0.56
1:F:45:ASP:CB	1:F:187:LEU:HG	2.24	0.56
1:G:57:SER:OG	1:G:59:LEU:HD13	2.04	0.56
2:c:172:MET:CG	2:c:179:GLY:HA2	2.35	0.56
2:f:25:ARG:HH11	2:f:32:VAL:HG21	1.71	0.56
2:g:102:LEU:HD22	2:g:102:LEU:C	2.29	0.56
2:g:102:LEU:O	2:g:103:THR:HB	2.04	0.56
1:I:173:VAL:C	1:I:175:GLU:N	2.63	0.56
1:L:192:GLU:O	1:L:193:LEU:C	2.48	0.56
1:N:51:VAL:HG11	1:N:67:LYS:HG3	1.86	0.56
2:i:184:LEU:HD22	2:i:195:PHE:CE1	2.40	0.56
2:k:102:LEU:HD22	2:k:103:THR:N	2.20	0.56
1:A:27:TYR:CD1	1:G:18:PRO:C	2.84	0.56
1:A:182:ARG:C	1:A:184:ASP:H	2.12	0.56
1:A:239:LYS:HE3	1:A:240:LYS:HE2	1.86	0.56
1:C:22:LEU:HD13	1:C:25:VAL:HG21	1.86	0.56
1:C:125:THR:HA	1:C:132:PRO:HG3	1.88	0.56
1:F:26:GLU:HG3	1:F:29:ARG:HE	1.71	0.56
1:G:66:GLU:CD	1:G:69:PHE:HE1	2.13	0.56
1:G:82:LEU:N	1:G:82:LEU:HD13	2.21	0.56
1:G:96:GLU:HG2	1:G:116:LYS:CG	2.34	0.56
2:a:49:MET:HB3	2:a:107:ILE:HG22	1.87	0.56
2:c:97:ARG:HG3	2:c:98:MET:H	1.68	0.56
2:c:175:ASP:OD1	2:c:178:SER:OG	2.19	0.56
2:d:146:VAL:HG21	2:d:167:ALA:HA	1.86	0.56
2:g:43:ILE:HD13	2:g:47:ILE:O	2.05	0.56
2:g:82:PRO:O	2:g:84:ALA:N	2.39	0.56
1:H:42:ALA:O	1:H:43:CYS:SG	2.62	0.56
1:H:103:THR:HA	2:i:91:ASN:ND2	2.20	0.56
1:I:45:ASP:HA	1:I:218:LYS:HE2	1.87	0.56
1:I:186:THR:OG1	1:I:189:GLU:HB2	2.05	0.56
1:I:190:GLY:O	1:I:191:LEU:C	2.47	0.56
1:J:144:LYS:C	1:J:146:GLU:H	2.14	0.56
1:K:82:LEU:HD22	1:K:82:LEU:N	2.13	0.56
1:L:85:ASP:HA	1:L:88:VAL:HG22	1.87	0.56
1:L:207:PRO:O	1:L:208:GLU:HG3	2.04	0.56
1:M:153:ASP:OD1	1:M:154:PRO:N	2.38	0.56
2:h:8:THR:HB	2:h:178:SER:OG	2.04	0.56
2:i:184:LEU:O	2:i:195:PHE:CD1	2.58	0.56
2:k:9:THR:CG2	2:k:22:THR:HG22	2.35	0.56
2:k:25:ARG:HH11	2:k:32:VAL:HG21	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l:21:ALA:HB1	2:l:168:LEU:CD1	2.35	0.56
2:l:86:ALA:O	2:l:88:LEU:N	2.38	0.56
2:m:168:LEU:O	2:m:172:MET:HB2	2.05	0.56
1:B:160:GLU:CB	1:C:64:SER:HB3	2.33	0.56
1:C:231:LYS:HA	1:C:234:ILE:HG22	1.87	0.56
1:D:40:GLY:HA2	1:D:49:LEU:HD12	1.87	0.56
1:E:118:CYS:SG	1:E:157:ALA:N	2.78	0.56
2:a:9:THR:HG1	2:a:136:THR:HG23	1.70	0.56
2:a:102:LEU:CA	2:a:123:PRO:HB3	2.36	0.56
2:b:8:THR:O	2:b:8:THR:HG23	2.05	0.56
2:c:43:ILE:HG12	2:c:44:ASP:H	1.71	0.56
2:c:140:SER:H	2:c:141:PRO:HD2	1.70	0.56
2:f:104:GLN:O	2:f:105:ILE:HG13	2.05	0.56
1:H:42:ALA:C	1:H:43:CYS:SG	2.89	0.56
1:I:82:LEU:HD13	1:I:82:LEU:H	1.71	0.56
1:J:175:GLU:HA	1:J:178:GLU:HB2	1.86	0.56
2:i:170:SER:O	2:i:171:ALA:C	2.48	0.56
2:j:161:ILE:O	2:j:165:LEU:HG	2.06	0.56
2:k:10:VAL:HG12	2:k:147:LEU:HD11	1.88	0.56
2:k:47:ILE:HD12	2:k:47:ILE:N	2.21	0.56
2:l:102:LEU:HD22	2:l:102:LEU:C	2.30	0.56
2:n:83:LEU:HB3	2:n:119:PHE:HZ	1.70	0.56
1:A:64:SER:HB3	1:G:160:GLU:HB3	1.88	0.56
1:B:125:THR:HG22	1:C:131:ARG:NE	2.11	0.56
1:C:146:GLU:HG3	1:C:148:ARG:HG3	1.86	0.56
1:E:125:THR:HG21	1:F:131:ARG:HH21	1.70	0.56
1:F:68:ILE:HD11	1:F:211:ASP:CB	2.35	0.56
1:F:207:PRO:C	1:F:208:GLU:HG3	2.30	0.56
2:a:196:GLU:O	2:a:197:ASP:C	2.48	0.56
1:J:55:ILE:HD13	1:J:62:ILE:HG12	1.87	0.56
1:K:190:GLY:O	1:K:191:LEU:C	2.48	0.56
1:N:242:ASN:O	1:N:244:GLU:HG3	2.04	0.56
2:j:104:GLN:O	2:j:105:ILE:HG13	2.05	0.56
2:m:94:HIS:CE1	2:m:97:ARG:HD3	2.41	0.56
1:C:101:ARG:HH11	1:C:107:GLU:HG2	1.70	0.56
1:F:182:ARG:C	1:F:184:ASP:N	2.59	0.56
2:d:196:GLU:O	2:d:197:ASP:C	2.48	0.56
2:g:43:ILE:HG22	2:g:66:ILE:HG12	1.88	0.56
1:H:52:ASP:CB	1:H:198:LEU:HD21	2.35	0.56
1:H:153:ASP:C	1:H:153:ASP:OD1	2.49	0.56
1:I:223:LYS:HG3	1:I:224:LYS:H	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:231:LYS:HA	1:K:234:ILE:HG22	1.86	0.56
1:K:236:LYS:O	1:K:237:VAL:HG23	2.05	0.56
1:M:45:ASP:HB2	1:M:187:LEU:HG	1.87	0.56
1:M:190:GLY:HA2	1:M:193:LEU:HD22	1.87	0.56
2:k:10:VAL:CG1	2:k:147:LEU:HD11	2.35	0.56
2:n:31:LEU:HD12	2:n:32:VAL:N	2.20	0.56
1:C:43:CYS:SG	1:C:187:LEU:HD23	2.46	0.56
1:C:109:SER:HB2	2:d:78:ARG:HH22	1.71	0.56
1:D:18:PRO:C	1:E:27:TYR:CD1	2.83	0.56
1:D:32:VAL:C	1:D:34:ARG:N	2.63	0.56
1:D:102:LEU:CD1	2:d:64:LEU:HA	2.36	0.56
1:E:68:ILE:HG22	1:E:78:ALA:HB2	1.88	0.56
1:F:18:PRO:HA	1:G:27:TYR:CD1	2.41	0.56
1:G:173:VAL:HA	1:G:176:LEU:HB3	1.87	0.56
2:c:44:ASP:HB3	2:c:47:ILE:CD1	2.36	0.56
2:g:43:ILE:HD11	2:g:47:ILE:HB	1.87	0.56
2:g:150:GLY:O	2:g:163:LEU:HD22	2.06	0.56
1:I:14:THR:CG2	1:I:15:VAL:HG22	2.31	0.56
1:J:186:THR:OG1	1:J:189:GLU:HB2	2.05	0.56
1:M:14:THR:CG2	1:M:15:VAL:HG22	2.29	0.56
2:h:121:LEU:HD12	2:h:126:GLY:O	2.05	0.56
2:i:200:ILE:O	2:i:202:LYS:N	2.37	0.56
2:j:121:LEU:HD12	2:j:126:GLY:O	2.06	0.56
2:k:7:THR:HB	2:k:138:SER:HB3	1.86	0.56
2:k:97:ARG:C	2:k:99:PHE:N	2.59	0.56
2:m:110:TYR:CD2	2:m:189:LYS:HA	2.41	0.56
1:B:173:VAL:HA	1:B:176:LEU:HB3	1.87	0.56
1:C:26:GLU:HG2	1:C:29:ARG:HE	1.71	0.56
1:E:122:GLN:CG	1:F:84:ALA:HB1	2.32	0.56
1:E:192:GLU:O	1:E:193:LEU:C	2.47	0.56
1:G:62:ILE:O	1:G:65:ILE:HG22	2.06	0.56
2:a:138:SER:OG	2:a:139:GLY:N	2.39	0.56
1:H:68:ILE:HD13	1:H:68:ILE:H	1.71	0.56
1:H:223:LYS:HG3	1:H:224:LYS:N	2.21	0.56
1:I:70:GLN:C	1:I:71:ILE:HD13	2.31	0.56
1:L:48:VAL:CG1	1:L:49:LEU:N	2.68	0.56
1:L:214:ILE:HD11	1:L:225:ILE:HG13	1.88	0.56
1:M:51:VAL:HG11	1:M:67:LYS:HG3	1.88	0.56
2:h:60:ALA:HA	2:h:63:ARG:CZ	2.36	0.56
2:k:55:VAL:HG23	2:k:56:GLY:H	1.71	0.56
2:n:103:THR:H	2:n:123:PRO:CG	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:57:SER:OG	1:B:59:LEU:HD13	2.06	0.56
1:C:71:ILE:C	2:c:74:MET:SD	2.89	0.56
1:D:161:TYR:HE2	1:E:60:VAL:HG22	1.69	0.56
1:D:173:VAL:O	1:D:177:LEU:HD13	2.06	0.56
2:a:31:LEU:HD12	2:a:32:VAL:H	1.71	0.56
2:a:89:LEU:HD23	2:a:92:ILE:HD12	1.88	0.56
2:a:120:SER:O	2:a:121:LEU:HD13	2.06	0.56
2:a:172:MET:HE3	2:a:179:GLY:HA2	1.88	0.56
2:f:184:LEU:HD22	2:f:195:PHE:CE1	2.41	0.56
1:J:122:GLN:O	1:J:125:THR:HB	2.06	0.56
2:i:152:ASP:O	2:i:153:ARG:C	2.47	0.56
2:j:161:ILE:HD12	2:j:162:LYS:N	2.21	0.56
2:k:49:MET:CE	2:k:62:VAL:HG22	2.36	0.56
2:l:80:ILE:HD12	2:l:80:ILE:N	2.20	0.56
2:m:43:ILE:HD11	2:m:47:ILE:HB	1.87	0.56
2:m:83:LEU:HD21	2:m:111:ASP:OD2	2.05	0.56
2:m:161:ILE:HD13	2:m:203:ILE:HD13	1.87	0.56
1:A:48:VAL:CG1	1:A:49:LEU:N	2.68	0.56
1:A:90:ILE:HD12	1:A:94:ARG:CD	2.22	0.56
1:C:87:ARG:O	1:C:90:ILE:HG13	2.06	0.56
1:E:122:GLN:OE1	1:E:122:GLN:C	2.49	0.56
1:E:126:GLN:HB3	1:F:131:ARG:CZ	2.36	0.56
1:E:239:LYS:HG3	1:E:240:LYS:HE2	1.88	0.56
1:G:100:TYR:CD2	1:G:108:ILE:HB	2.41	0.56
2:f:201:GLU:O	2:f:202:LYS:C	2.48	0.56
2:g:97:ARG:C	2:g:99:PHE:N	2.57	0.56
1:H:16:PHE:HD2	1:I:131:ARG:HD2	1.71	0.56
1:I:80:SER:HB3	1:I:166:ILE:HD12	1.88	0.56
1:J:22:LEU:HD23	1:J:23:TYR:N	2.21	0.56
1:K:13:ILE:HG12	1:L:13:ILE:HG21	1.88	0.56
1:K:22:LEU:O	1:K:23:TYR:O	2.24	0.56
1:K:226:PRO:HG2	1:K:229:GLU:HG2	1.88	0.56
2:i:49:MET:CE	2:i:62:VAL:HG22	2.37	0.56
2:n:86:ALA:C	2:n:127:MET:HE1	2.30	0.56
1:A:207:PRO:C	1:A:208:GLU:HG3	2.31	0.55
1:E:48:VAL:CG2	1:E:214:ILE:HG23	2.36	0.55
1:G:32:VAL:C	1:G:34:ARG:N	2.61	0.55
2:g:135:ALA:HB3	2:g:144:TYR:CD1	2.40	0.55
1:J:75:VAL:HG22	1:J:141:GLY:HA3	1.88	0.55
1:N:30:GLU:HA	1:N:33:ARG:HH12	1.70	0.55
2:h:43:ILE:HG22	2:h:66:ILE:HG12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:7:THR:HA	2:i:39:LYS:HZ2	1.70	0.55
2:i:188:THR:OG1	2:i:189:LYS:HE3	2.06	0.55
2:k:40:LEU:CD1	2:k:50:THR:HG22	2.36	0.55
2:l:43:ILE:HG22	2:l:66:ILE:HG12	1.87	0.55
1:E:22:LEU:HD23	1:E:22:LEU:C	2.31	0.55
1:E:82:LEU:HD13	1:E:134:GLY:O	2.05	0.55
1:G:197:ALA:O	1:G:200:LYS:N	2.39	0.55
2:b:135:ALA:H	2:b:144:TYR:HE1	1.53	0.55
2:c:23:ASP:O	2:c:25:ARG:N	2.39	0.55
2:f:88:LEU:HB3	2:f:92:ILE:CD1	2.35	0.55
1:H:14:THR:CG2	1:H:15:VAL:HG22	2.36	0.55
1:H:87:ARG:O	1:H:88:VAL:C	2.49	0.55
1:I:212:VAL:HB	1:I:225:ILE:HB	1.87	0.55
1:K:45:ASP:HB2	1:K:187:LEU:HG	1.88	0.55
1:K:100:TYR:CD2	1:K:108:ILE:HB	2.40	0.55
2:h:135:ALA:H	2:h:144:TYR:HE1	1.54	0.55
2:j:102:LEU:HD22	2:j:103:THR:HA	1.87	0.55
2:n:102:LEU:O	2:n:103:THR:CB	2.51	0.55
1:B:68:ILE:HG13	1:B:213:CYS:SG	2.46	0.55
1:C:178:GLU:HA	1:D:59:LEU:HD11	1.88	0.55
1:D:16:PHE:HB3	1:E:24:GLN:OE1	2.07	0.55
1:D:22:LEU:HD23	1:D:23:TYR:N	2.20	0.55
1:D:41:ILE:O	1:D:47:VAL:HG23	2.07	0.55
1:F:83:VAL:HG22	1:F:86:ALA:CB	2.37	0.55
1:F:137:LEU:HB2	1:F:152:THR:OG1	2.05	0.55
1:F:155:SER:O	1:G:84:ALA:HB2	2.06	0.55
1:F:160:GLU:CB	1:G:64:SER:HB3	2.35	0.55
2:b:121:LEU:CD1	2:b:127:MET:HB2	2.36	0.55
2:d:94:HIS:CD2	2:d:97:ARG:HD3	2.41	0.55
2:e:69:ALA:O	2:e:71:LEU:N	2.30	0.55
2:f:63:ARG:NH2	2:g:90:SER:OG	2.39	0.55
2:f:72:TYR:C	2:f:72:TYR:CD2	2.85	0.55
2:i:202:LYS:HG3	2:i:203:ILE:H	1.67	0.55
2:j:42:LYS:HZ2	2:j:192:VAL:HB	1.71	0.55
2:j:103:THR:N	2:j:123:PRO:HB3	2.22	0.55
2:k:69:ALA:O	2:k:71:LEU:N	2.34	0.55
2:m:184:LEU:HD13	2:m:195:PHE:HE1	1.71	0.55
1:C:239:LYS:C	1:C:240:LYS:HD3	2.30	0.55
1:D:161:TYR:CD1	1:D:164:THR:HG21	2.42	0.55
1:D:192:GLU:HA	1:D:195:ILE:HD12	1.89	0.55
1:E:92:ARG:HD2	1:E:92:ARG:O	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:175:GLU:HA	1:E:178:GLU:HB2	1.88	0.55
1:F:142:ILE:CD1	1:F:217:VAL:HA	2.35	0.55
1:H:70:GLN:HA	1:H:76:ALA:CB	2.36	0.55
1:H:198:LEU:HD23	1:H:198:LEU:O	2.07	0.55
1:L:36:THR:CG2	1:L:67:LYS:HE2	2.36	0.55
1:N:239:LYS:HG3	1:N:240:LYS:HE2	1.88	0.55
2:h:175:ASP:C	2:h:175:ASP:OD2	2.49	0.55
2:l:7:THR:N	2:l:23:ASP:OD1	2.39	0.55
2:l:135:ALA:H	2:l:144:TYR:HE1	1.54	0.55
2:m:10:VAL:CG2	2:m:21:ALA:HB3	2.37	0.55
2:n:85:CYS:O	2:n:88:LEU:HB2	2.06	0.55
1:A:13:ILE:HG21	1:G:13:ILE:HG12	1.88	0.55
1:A:77:ALA:HB2	1:A:139:ILE:HG23	1.89	0.55
1:D:101:ARG:O	1:D:101:ARG:HG2	2.06	0.55
1:D:182:ARG:C	1:D:184:ASP:N	2.58	0.55
1:E:83:VAL:HA	1:E:86:ALA:CB	2.35	0.55
1:F:109:SER:HB2	2:g:78:ARG:HH22	1.70	0.55
1:F:164:THR:HG23	1:F:165:ALA:N	2.21	0.55
2:b:51:ILE:HG21	2:b:58:ALA:HB1	1.88	0.55
2:b:82:PRO:C	2:b:84:ALA:H	2.15	0.55
2:f:23:ASP:CG	2:f:23:ASP:O	2.49	0.55
2:g:161:ILE:HD12	2:g:162:LYS:N	2.22	0.55
1:H:24:GLN:HE22	1:N:16:PHE:HB3	1.71	0.55
1:K:52:ASP:CB	1:K:198:LEU:HD21	2.32	0.55
1:N:109:SER:HB2	2:h:78:ARG:HH22	1.70	0.55
1:N:151:GLU:O	1:N:159:ILE:HG13	2.05	0.55
2:h:50:THR:OG1	2:h:50:THR:O	2.25	0.55
2:k:203:ILE:HG22	2:k:207:MET:SD	2.47	0.55
2:n:96:SER:O	2:n:99:PHE:O	2.25	0.55
2:n:101:PHE:HD1	2:n:102:LEU:N	2.02	0.55
1:A:122:GLN:O	1:A:125:THR:HB	2.06	0.55
1:D:158:LEU:HD12	1:E:83:VAL:HG11	1.87	0.55
1:D:208:GLU:C	1:D:210:VAL:H	2.15	0.55
1:E:126:GLN:HE22	1:F:133:PHE:HE2	1.54	0.55
1:F:158:LEU:HD12	1:G:83:VAL:CG1	2.36	0.55
1:G:95:LEU:C	1:G:97:ALA:N	2.62	0.55
2:d:43:ILE:HD11	2:d:47:ILE:HG22	1.89	0.55
2:g:188:THR:HG21	2:g:193:LYS:NZ	2.22	0.55
1:H:32:VAL:HG11	1:H:170:ARG:HH21	1.71	0.55
1:H:48:VAL:CG2	1:H:214:ILE:HG23	2.37	0.55
1:I:55:ILE:HD13	1:I:62:ILE:HG12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:62:ILE:HG22	1:K:62:ILE:O	2.06	0.55
1:L:48:VAL:HG12	1:L:49:LEU:N	2.21	0.55
1:L:125:THR:HG22	1:M:131:ARG:HE	1.72	0.55
2:h:23:ASP:CG	2:h:23:ASP:O	2.49	0.55
2:j:97:ARG:C	2:j:99:PHE:N	2.64	0.55
2:m:86:ALA:HB1	2:m:127:MET:HE1	1.89	0.55
2:n:184:LEU:HD23	2:n:185:ALA:N	2.20	0.55
1:A:114:ALA:O	1:A:117:ILE:HD13	2.06	0.55
1:E:45:ASP:OD2	1:E:45:ASP:N	2.39	0.55
1:E:121:LYS:CG	1:E:133:PHE:HD1	2.19	0.55
1:E:223:LYS:HG3	1:E:224:LYS:N	2.21	0.55
1:F:57:SER:OG	1:F:59:LEU:HD13	2.06	0.55
1:F:173:VAL:C	1:F:175:GLU:N	2.62	0.55
1:G:45:ASP:O	1:G:217:VAL:HG12	2.06	0.55
1:G:63:ARG:HD3	1:G:63:ARG:N	2.20	0.55
1:G:148:ARG:CD	1:G:160:GLU:OE1	2.51	0.55
2:a:135:ALA:H	2:a:144:TYR:HE1	1.54	0.55
2:a:156:SER:OG	2:a:159:GLU:N	2.31	0.55
2:c:16:ASP:C	2:c:189:LYS:HZ1	2.15	0.55
2:f:63:ARG:O	2:f:65:LEU:N	2.39	0.55
1:I:122:GLN:C	1:I:122:GLN:OE1	2.50	0.55
1:I:160:GLU:HB3	1:J:64:SER:HB3	1.89	0.55
1:J:100:TYR:CE2	1:J:108:ILE:HA	2.42	0.55
1:J:242:ASN:O	1:J:244:GLU:HG3	2.07	0.55
1:K:186:THR:OG1	1:K:189:GLU:HB2	2.06	0.55
1:L:182:ARG:C	1:L:184:ASP:H	2.14	0.55
1:M:89:LEU:HD21	1:M:121:LYS:HD3	1.88	0.55
1:N:41:ILE:HG23	1:N:163:ALA:HB2	1.89	0.55
1:N:42:ALA:O	1:N:43:CYS:HB3	2.07	0.55
2:h:83:LEU:HD23	2:h:83:LEU:H	1.71	0.55
2:j:43:ILE:HD11	2:j:47:ILE:HB	1.89	0.55
2:j:58:ALA:O	2:j:62:VAL:HG23	2.06	0.55
2:j:122:ASP:C	2:j:122:ASP:OD2	2.50	0.55
2:k:88:LEU:O	2:k:92:ILE:N	2.35	0.55
2:m:97:ARG:C	2:m:99:PHE:H	2.13	0.55
2:n:43:ILE:HG22	2:n:66:ILE:HG12	1.88	0.55
1:B:203:GLU:O	1:B:204:ASP:HB2	2.05	0.55
1:C:45:ASP:OD2	1:C:45:ASP:N	2.38	0.55
1:D:228:GLU:OE1	1:D:231:LYS:HD3	2.07	0.55
1:G:190:GLY:HA2	1:G:193:LEU:CD2	2.30	0.55
2:a:91:ASN:HD21	2:g:63:ARG:HH12	1.53	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:54:SER:CB	2:b:102:LEU:HD11	2.37	0.55
2:e:8:THR:HB	2:e:178:SER:OG	2.07	0.55
2:g:103:THR:N	2:g:123:PRO:HB3	2.22	0.55
2:g:187:ILE:CG2	2:g:192:VAL:HG13	2.37	0.55
1:H:214:ILE:HD12	1:H:214:ILE:N	2.21	0.55
1:M:203:GLU:O	1:M:204:ASP:HB2	2.07	0.55
1:N:106:GLU:OE2	2:h:81:PRO:HG2	2.07	0.55
2:h:21:ALA:HB1	2:h:168:LEU:HD11	1.87	0.55
2:j:97:ARG:HG3	2:j:98:MET:H	1.71	0.55
2:k:25:ARG:HE	2:k:32:VAL:CG1	2.18	0.55
2:m:97:ARG:C	2:m:99:PHE:N	2.63	0.55
1:B:14:THR:O	1:B:15:VAL:HG13	2.07	0.55
1:B:14:THR:CG2	1:B:15:VAL:HG22	2.23	0.55
1:B:68:ILE:HG22	1:B:78:ALA:CB	2.37	0.55
1:D:18:PRO:O	1:E:27:TYR:CE1	2.60	0.55
1:D:115:LYS:NZ	1:E:66:GLU:OE1	2.39	0.55
1:E:226:PRO:HG2	1:E:229:GLU:CG	2.36	0.55
1:F:125:THR:HG22	1:G:131:ARG:HE	1.72	0.55
1:G:170:ARG:O	1:G:174:MET:HB2	2.07	0.55
2:b:83:LEU:HB3	2:b:119:PHE:CZ	2.41	0.55
2:c:49:MET:CE	2:c:62:VAL:HA	2.36	0.55
2:c:169:LYS:HE3	2:c:204:LEU:HD21	1.87	0.55
2:d:94:HIS:O	2:d:97:ARG:HG2	2.06	0.55
1:H:119:ASP:OD1	1:I:87:ARG:NH2	2.34	0.55
1:H:223:LYS:HG3	1:H:224:LYS:H	1.71	0.55
1:I:22:LEU:HD23	1:I:23:TYR:N	2.22	0.55
1:J:122:GLN:HG2	1:K:84:ALA:HB1	1.89	0.55
1:J:231:LYS:O	1:J:235:GLU:HG2	2.05	0.55
1:K:61:LYS:HE2	1:K:63:ARG:CG	2.36	0.55
1:K:90:ILE:C	1:K:92:ARG:N	2.64	0.55
1:L:150:PHE:CE1	1:L:160:GLU:HB2	2.41	0.55
1:M:140:ALA:HB1	1:M:148:ARG:O	2.07	0.55
1:M:146:GLU:HG3	1:M:148:ARG:HG3	1.89	0.55
1:M:167:GLY:H	1:M:170:ARG:CG	2.20	0.55
1:M:223:LYS:HG3	1:M:224:LYS:N	2.21	0.55
2:i:121:LEU:HD12	2:i:126:GLY:O	2.07	0.55
2:i:152:ASP:O	2:i:155:MET:HG2	2.06	0.55
2:j:184:LEU:HB3	2:j:195:PHE:HD1	1.72	0.55
2:l:61:ILE:HG13	2:l:101:PHE:CZ	2.42	0.55
1:A:20:GLY:CA	1:B:31:ALA:HA	2.33	0.55
1:B:239:LYS:HG3	1:B:240:LYS:CE	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:111:ASP:O	2:b:112:LEU:C	2.50	0.55
2:c:12:LEU:CD2	2:c:19:ILE:HB	2.34	0.55
2:e:54:SER:OG	2:e:57:ASP:HB2	2.07	0.55
2:e:202:LYS:O	2:e:205:ASP:HB2	2.06	0.55
2:f:47:ILE:HA	2:f:109:GLY:HA3	1.88	0.55
2:g:202:LYS:HG3	2:g:203:ILE:HG12	1.89	0.55
1:I:15:VAL:HG21	1:I:24:GLN:HB2	1.88	0.55
1:I:28:ALA:O	1:I:31:ALA:HB3	2.07	0.55
2:h:188:THR:OG1	2:h:189:LYS:HE3	2.07	0.55
2:i:72:TYR:O	2:i:72:TYR:HD2	1.89	0.55
2:n:23:ASP:O	2:n:23:ASP:CG	2.50	0.55
1:A:29:ARG:O	1:A:30:GLU:C	2.50	0.54
1:C:181:TYR:CE1	1:C:185:ILE:HG12	2.42	0.54
1:D:22:LEU:HD22	1:D:25:VAL:HG23	1.88	0.54
1:D:160:GLU:CB	1:E:64:SER:CB	2.68	0.54
1:E:55:ILE:HD11	1:E:62:ILE:HG23	1.89	0.54
1:E:83:VAL:HA	1:E:86:ALA:HB2	1.89	0.54
1:E:180:GLU:CD	1:E:180:GLU:N	2.63	0.54
2:f:103:THR:N	2:f:123:PRO:HB3	2.22	0.54
1:I:153:ASP:OD1	1:I:154:PRO:N	2.41	0.54
2:j:63:ARG:C	2:j:65:LEU:H	2.15	0.54
2:l:96:SER:HA	2:l:99:PHE:HB2	1.89	0.54
2:l:113:LEU:HG	2:l:114:GLU:N	2.22	0.54
2:l:184:LEU:HD22	2:l:195:PHE:HE1	1.73	0.54
2:m:137:GLY:O	2:m:140:SER:N	2.40	0.54
2:n:69:ALA:HB1	2:n:80:ILE:HD13	1.88	0.54
2:n:88:LEU:O	2:n:91:ASN:N	2.41	0.54
1:A:84:ALA:HB1	1:G:122:GLN:HG2	1.89	0.54
1:A:102:LEU:HD11	2:a:64:LEU:HA	1.89	0.54
1:B:38:ALA:HB2	1:B:51:VAL:HG13	1.87	0.54
1:E:47:VAL:HG21	1:E:140:ALA:HB1	1.89	0.54
1:E:150:PHE:HE1	1:E:160:GLU:HB2	1.71	0.54
1:F:119:ASP:O	1:F:120:ILE:C	2.49	0.54
2:a:49:MET:CE	2:a:62:VAL:HG22	2.37	0.54
2:a:94:HIS:NE2	2:a:97:ARG:HD3	2.22	0.54
2:d:143:ALA:O	2:d:146:VAL:HB	2.07	0.54
2:e:50:THR:O	2:e:50:THR:OG1	2.24	0.54
2:e:65:LEU:HD23	2:e:65:LEU:C	2.32	0.54
2:e:142:ILE:HG21	2:e:171:ALA:HA	1.88	0.54
2:e:143:ALA:O	2:e:146:VAL:HB	2.07	0.54
2:f:196:GLU:O	2:f:197:ASP:C	2.50	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:g:83:LEU:HB3	2:g:119:PHE:HZ	1.68	0.54
1:H:89:LEU:HD21	1:H:121:LYS:HD3	1.88	0.54
1:H:98:GLN:HB3	2:h:67:ALA:HB1	1.89	0.54
1:H:114:ALA:O	1:H:117:ILE:HD13	2.07	0.54
1:I:181:TYR:C	1:I:182:ARG:HG3	2.32	0.54
1:J:192:GLU:O	1:J:193:LEU:C	2.50	0.54
2:i:80:ILE:HD12	2:i:80:ILE:N	2.22	0.54
2:j:90:SER:HB2	2:j:127:MET:HE3	1.90	0.54
2:l:197:ASP:O	2:l:198:GLU:C	2.50	0.54
1:A:22:LEU:O	1:A:23:TYR:O	2.26	0.54
1:B:61:LYS:HE2	1:B:63:ARG:CG	2.37	0.54
1:B:82:LEU:HD11	1:B:134:GLY:HA3	1.88	0.54
1:C:173:VAL:C	1:C:175:GLU:N	2.64	0.54
1:D:68:ILE:HD13	1:D:68:ILE:H	1.73	0.54
1:E:187:LEU:O	1:E:191:LEU:N	2.40	0.54
2:b:49:MET:HE1	2:b:62:VAL:HG22	1.89	0.54
2:c:135:ALA:HB3	2:c:144:TYR:CE1	2.42	0.54
2:d:103:THR:H	2:d:123:PRO:CG	2.18	0.54
1:H:124:TYR:CD1	1:H:133:PHE:CZ	2.96	0.54
1:K:43:CYS:SG	1:K:46:GLY:O	2.57	0.54
1:K:239:LYS:HG3	1:K:240:LYS:HE2	1.89	0.54
2:i:20:LEU:O	2:i:184:LEU:HD23	2.06	0.54
2:j:8:THR:O	2:j:8:THR:HG23	2.06	0.54
2:l:121:LEU:HD11	2:l:127:MET:HE3	1.89	0.54
2:m:22:THR:HB	2:m:39:LYS:HB2	1.89	0.54
1:A:87:ARG:O	1:A:88:VAL:C	2.49	0.54
1:C:26:GLU:HA	1:C:29:ARG:HG3	1.88	0.54
1:C:102:LEU:C	1:C:102:LEU:HD23	2.32	0.54
1:F:114:ALA:O	1:F:117:ILE:HD13	2.08	0.54
1:G:134:GLY:C	1:G:135:VAL:HG12	2.32	0.54
1:G:222:PHE:C	1:G:222:PHE:CD1	2.86	0.54
2:a:65:LEU:O	2:a:66:ILE:C	2.51	0.54
2:b:122:ASP:C	2:b:122:ASP:OD2	2.50	0.54
2:b:173:GLU:O	2:b:173:GLU:HG2	2.05	0.54
2:e:107:ILE:HG13	2:e:119:PHE:HB2	1.90	0.54
1:H:129:GLY:O	1:H:130:VAL:HB	2.06	0.54
1:H:242:ASN:O	1:H:244:GLU:HG3	2.07	0.54
1:I:36:THR:HA	1:I:54:ARG:HH12	1.72	0.54
1:I:79:THR:HG21	1:I:86:ALA:HB1	1.89	0.54
1:I:239:LYS:O	1:I:240:LYS:HD3	2.07	0.54
1:L:19:GLU:OE1	1:L:19:GLU:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:61:LYS:HE2	1:L:63:ARG:HG3	1.89	0.54
1:N:14:THR:CG2	1:N:15:VAL:HG22	2.32	0.54
2:h:120:SER:O	2:h:121:LEU:HD13	2.07	0.54
2:j:121:LEU:CD1	2:j:127:MET:HB2	2.38	0.54
2:m:202:LYS:HE2	2:m:203:ILE:HA	1.88	0.54
1:B:180:GLU:CD	1:B:180:GLU:N	2.65	0.54
1:C:126:GLN:HB2	1:D:131:ARG:HG2	1.89	0.54
1:D:22:LEU:HD23	1:D:22:LEU:C	2.33	0.54
2:b:62:VAL:HG12	2:b:66:ILE:HD11	1.90	0.54
2:e:25:ARG:HD2	2:e:180:ASN:HB2	1.89	0.54
2:f:161:ILE:HD12	2:f:162:LYS:N	2.22	0.54
1:H:101:ARG:HH11	1:H:107:GLU:HG2	1.71	0.54
1:H:215:ILE:HG22	1:H:215:ILE:O	2.08	0.54
1:M:48:VAL:CG2	1:M:214:ILE:HG23	2.38	0.54
1:M:228:GLU:OE1	1:M:231:LYS:HD3	2.08	0.54
1:N:146:GLU:HG3	1:N:148:ARG:HG3	1.89	0.54
2:l:23:ASP:OD2	2:l:25:ARG:HB3	2.07	0.54
2:l:43:ILE:H	2:l:43:ILE:CD1	2.09	0.54
2:m:14:CYS:HB3	2:m:155:MET:O	2.08	0.54
2:n:103:THR:O	2:n:123:PRO:HG3	2.08	0.54
2:n:121:LEU:HD12	2:n:126:GLY:O	2.06	0.54
1:D:70:GLN:HA	1:D:76:ALA:HB1	1.89	0.54
1:D:242:ASN:O	1:D:243:GLU:HG2	2.06	0.54
1:E:40:GLY:HA2	1:E:49:LEU:HD12	1.89	0.54
1:F:22:LEU:HD23	1:F:23:TYR:N	2.22	0.54
1:F:102:LEU:C	1:F:102:LEU:HD23	2.33	0.54
2:a:25:ARG:HH11	2:a:32:VAL:HG21	1.73	0.54
2:a:54:SER:OG	2:a:57:ASP:HB2	2.08	0.54
2:d:61:ILE:HG13	2:d:101:PHE:HZ	1.72	0.54
2:f:43:ILE:H	2:f:43:ILE:CD1	2.12	0.54
2:g:25:ARG:HB2	2:g:179:GLY:O	2.08	0.54
1:H:102:LEU:HD11	2:h:64:LEU:CD2	2.38	0.54
1:H:170:ARG:CB	1:H:171:PRO:HD3	2.38	0.54
1:J:15:VAL:HG21	1:J:24:GLN:H	1.72	0.54
1:K:144:LYS:C	1:K:146:GLU:H	2.15	0.54
1:L:180:GLU:CD	1:L:180:GLU:N	2.62	0.54
1:N:114:ALA:O	1:N:117:ILE:HD13	2.08	0.54
2:i:102:LEU:O	2:i:103:THR:HB	2.07	0.54
2:l:175:ASP:OD2	2:l:176:THR:N	2.40	0.54
1:A:90:ILE:C	1:A:92:ARG:N	2.55	0.54
1:D:185:ILE:HD12	1:D:186:THR:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:29:ARG:O	1:E:32:VAL:N	2.38	0.54
1:E:90:ILE:O	1:E:92:ARG:N	2.38	0.54
1:F:173:VAL:HA	1:F:176:LEU:HB3	1.89	0.54
1:G:189:GLU:O	1:G:193:LEU:HD13	2.08	0.54
1:G:210:VAL:HG23	1:G:230:ILE:HG21	1.88	0.54
2:c:106:ILE:HD11	2:c:136:THR:HG22	1.88	0.54
1:H:66:GLU:HB3	1:H:69:PHE:CE1	2.42	0.54
1:I:208:GLU:C	1:I:210:VAL:N	2.66	0.54
1:J:39:ILE:HD11	1:J:173:VAL:HG21	1.90	0.54
1:K:112:MET:HA	1:K:112:MET:CE	2.34	0.54
1:N:53:ARG:HB2	1:N:209:ASN:O	2.08	0.54
2:i:172:MET:HE3	2:i:179:GLY:CA	2.37	0.54
2:k:43:ILE:HD11	2:k:47:ILE:HG22	1.90	0.54
1:A:25:VAL:CG2	1:A:26:GLU:N	2.69	0.54
1:D:163:ALA:O	1:E:59:LEU:HB3	2.08	0.54
1:D:223:LYS:HG3	1:D:224:LYS:H	1.72	0.54
1:E:226:PRO:HG2	1:E:229:GLU:HG2	1.90	0.54
1:G:90:ILE:CD1	1:G:94:ARG:HD2	2.37	0.54
2:b:172:MET:HG2	2:b:179:GLY:CA	2.34	0.54
2:c:133:PHE:CZ	2:c:148:GLU:OE2	2.61	0.54
2:d:49:MET:CB	2:d:107:ILE:HG22	2.37	0.54
2:f:176:THR:OG1	2:f:177:PHE:HD2	1.89	0.54
1:I:239:LYS:HG3	1:I:240:LYS:HE2	1.90	0.54
1:K:161:TYR:CD1	1:K:164:THR:HB	2.42	0.54
1:L:170:ARG:HD3	1:L:174:MET:SD	2.48	0.54
1:L:226:PRO:HG2	1:L:229:GLU:HG3	1.89	0.54
2:h:51:ILE:CG2	2:h:58:ALA:HB1	2.38	0.54
2:h:102:LEU:HD22	2:h:103:THR:CA	2.37	0.54
2:j:110:TYR:CD2	2:j:189:LYS:HA	2.43	0.54
2:k:63:ARG:HA	2:k:66:ILE:HD12	1.88	0.54
2:l:172:MET:CG	2:l:179:GLY:HA2	2.37	0.54
2:n:172:MET:HE3	2:n:179:GLY:HA2	1.88	0.54
1:B:57:SER:HG	1:B:59:LEU:HD13	1.72	0.54
1:C:227:VAL:O	1:C:228:GLU:HB2	2.07	0.54
1:C:236:LYS:HA	1:C:239:LYS:HE2	1.90	0.54
1:E:146:GLU:HG3	1:E:148:ARG:HG3	1.88	0.54
2:a:161:ILE:O	2:a:165:LEU:HG	2.08	0.54
2:b:103:THR:N	2:b:123:PRO:HB3	2.23	0.54
2:f:169:LYS:HE3	2:f:204:LEU:HD21	1.90	0.54
1:H:94:ARG:NH1	2:h:75:ARG:HA	2.23	0.54
1:N:181:TYR:C	1:N:182:ARG:HG3	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h:173:GLU:O	2:h:174:ARG:HG2	2.08	0.54
2:m:8:THR:O	2:m:8:THR:HG23	2.08	0.54
2:m:25:ARG:HE	2:m:32:VAL:HG13	1.73	0.54
2:m:43:ILE:HD13	2:m:43:ILE:N	2.20	0.54
2:m:102:LEU:CD2	2:m:103:THR:N	2.69	0.54
1:A:236:LYS:O	1:A:237:VAL:HG23	2.07	0.54
1:C:89:LEU:HD11	1:C:133:PHE:CG	2.43	0.54
1:D:190:GLY:HA2	1:D:193:LEU:HD22	1.89	0.54
1:E:50:ALA:HA	1:E:211:ASP:O	2.07	0.54
1:E:173:VAL:HA	1:E:176:LEU:HB3	1.90	0.54
1:G:32:VAL:CG1	1:G:170:ARG:HH21	2.20	0.54
1:G:135:VAL:O	1:G:154:PRO:HD3	2.08	0.54
1:G:199:THR:CA	1:G:205:ILE:HD11	2.36	0.54
2:b:140:SER:H	2:b:141:PRO:HD2	1.71	0.54
2:b:142:ILE:O	2:b:143:ALA:C	2.49	0.54
2:b:165:LEU:HD21	2:b:184:LEU:HD12	1.90	0.54
2:c:72:TYR:C	2:c:72:TYR:HD2	2.14	0.54
2:c:80:ILE:HD12	2:c:80:ILE:H	1.73	0.54
2:d:18:VAL:HG11	2:d:118:LEU:HD13	1.90	0.54
2:e:65:LEU:HD23	2:e:66:ILE:N	2.23	0.54
2:e:140:SER:OG	2:e:141:PRO:HD3	2.08	0.54
2:g:137:GLY:O	2:g:140:SER:HB3	2.07	0.54
2:g:176:THR:HG1	2:g:177:PHE:HD2	1.53	0.54
1:L:129:GLY:O	1:L:130:VAL:HB	2.08	0.54
1:L:150:PHE:HE1	1:L:160:GLU:HB2	1.72	0.54
1:N:45:ASP:CB	1:N:187:LEU:HG	2.29	0.54
1:N:102:LEU:CD2	1:N:103:THR:HG23	2.38	0.54
2:k:83:LEU:HD23	2:k:83:LEU:H	1.73	0.54
2:l:9:THR:HG1	2:l:136:THR:HG23	1.69	0.54
2:n:96:SER:HA	2:n:99:PHE:HB2	1.89	0.54
1:B:96:GLU:HG2	1:B:116:LYS:CG	2.36	0.53
1:C:24:GLN:O	1:C:25:VAL:C	2.50	0.53
1:E:190:GLY:O	1:E:191:LEU:C	2.51	0.53
1:G:102:LEU:HD23	1:G:103:THR:HG23	1.91	0.53
2:c:40:LEU:CD1	2:c:50:THR:HG22	2.38	0.53
2:d:16:ASP:C	2:d:189:LYS:NZ	2.66	0.53
2:d:52:ALA:HB3	2:d:104:GLN:CB	2.35	0.53
2:e:196:GLU:O	2:e:197:ASP:C	2.51	0.53
1:I:92:ARG:HG2	1:I:92:ARG:NH2	2.22	0.53
1:M:79:THR:HG21	1:M:86:ALA:HB1	1.90	0.53
1:M:86:ALA:O	1:M:87:ARG:C	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h:43:ILE:HD11	2:h:47:ILE:CB	2.38	0.53
2:h:43:ILE:HD11	2:h:47:ILE:HG22	1.88	0.53
2:i:17:ALA:HB1	2:i:187:ILE:O	2.08	0.53
2:j:54:SER:HB2	2:j:102:LEU:HD21	1.90	0.53
2:l:196:GLU:O	2:l:197:ASP:C	2.50	0.53
2:m:140:SER:N	2:m:141:PRO:CD	2.72	0.53
1:A:153:ASP:OD1	1:A:154:PRO:N	2.41	0.53
1:A:185:ILE:HD12	1:A:186:THR:O	2.08	0.53
1:E:48:VAL:HG22	1:E:214:ILE:HG23	1.91	0.53
1:E:173:VAL:C	1:E:175:GLU:N	2.66	0.53
2:b:25:ARG:HE	2:b:32:VAL:HG13	1.73	0.53
2:b:69:ALA:O	2:b:71:LEU:N	2.35	0.53
2:b:97:ARG:C	2:b:99:PHE:N	2.64	0.53
2:b:102:LEU:HD22	2:b:102:LEU:C	2.32	0.53
2:c:137:GLY:O	2:c:140:SER:N	2.41	0.53
2:d:63:ARG:C	2:d:65:LEU:H	2.17	0.53
2:e:8:THR:HA	2:e:137:GLY:HA3	1.90	0.53
2:f:16:ASP:HB3	2:f:189:LYS:HZ1	1.72	0.53
2:f:40:LEU:HD21	2:f:185:ALA:HB3	1.89	0.53
1:I:158:LEU:HD12	1:J:83:VAL:CG1	2.38	0.53
1:J:41:ILE:O	1:J:47:VAL:HG23	2.07	0.53
1:L:18:PRO:HA	1:M:27:TYR:CD1	2.43	0.53
1:L:102:LEU:CD2	1:L:103:THR:HG23	2.37	0.53
1:L:152:THR:HA	1:L:157:ALA:HB3	1.89	0.53
2:h:88:LEU:O	2:h:92:ILE:HG13	2.07	0.53
2:i:12:LEU:CD2	2:i:19:ILE:HB	2.38	0.53
2:j:184:LEU:HD23	2:j:185:ALA:H	1.73	0.53
1:A:53:ARG:O	1:A:209:ASN:OD1	2.26	0.53
1:A:137:LEU:N	1:A:152:THR:OG1	2.41	0.53
1:B:162:LYS:HG2	1:B:183:ASP:OD1	2.08	0.53
1:C:126:GLN:HB3	1:D:131:ARG:NE	2.24	0.53
1:D:51:VAL:HG11	1:D:67:LYS:HG3	1.91	0.53
1:D:64:SER:O	1:D:66:GLU:N	2.40	0.53
1:D:236:LYS:O	1:D:237:VAL:HG23	2.08	0.53
1:D:239:LYS:C	1:D:240:LYS:HD3	2.33	0.53
1:E:114:ALA:O	1:E:116:LYS:N	2.41	0.53
1:E:210:VAL:HG23	1:E:230:ILE:HG21	1.89	0.53
1:F:46:GLY:C	1:F:47:VAL:HG12	2.34	0.53
1:G:153:ASP:C	1:G:153:ASP:OD1	2.50	0.53
2:a:140:SER:N	2:a:141:PRO:HD2	2.23	0.53
2:a:165:LEU:HD21	2:a:184:LEU:HD12	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:133:PHE:HZ	2:b:148:GLU:OE2	1.91	0.53
2:c:54:SER:CB	2:c:102:LEU:HD11	2.38	0.53
2:f:16:ASP:OD1	2:f:16:ASP:N	2.39	0.53
1:H:162:LYS:O	1:H:163:ALA:HB2	2.08	0.53
1:I:180:GLU:CD	1:I:180:GLU:H	2.17	0.53
1:J:153:ASP:C	1:J:153:ASP:OD1	2.52	0.53
1:K:70:GLN:HA	1:K:76:ALA:CB	2.38	0.53
1:L:99:ILE:HG22	1:L:100:TYR:N	2.22	0.53
1:M:77:ALA:HB2	1:M:139:ILE:HG23	1.88	0.53
1:M:207:PRO:O	1:M:208:GLU:HG3	2.08	0.53
1:N:72:ASP:CG	1:N:98:GLN:HE22	2.15	0.53
2:h:31:LEU:HD12	2:h:32:VAL:N	2.24	0.53
2:i:94:HIS:O	2:i:97:ARG:HG2	2.09	0.53
2:l:7:THR:O	2:l:8:THR:HB	2.08	0.53
2:m:20:LEU:O	2:m:184:LEU:HD23	2.08	0.53
2:n:10:VAL:CG2	2:n:21:ALA:HB3	2.39	0.53
1:B:90:ILE:HD12	1:B:94:ARG:HD2	1.90	0.53
1:B:117:ILE:HD13	1:B:118:CYS:N	2.23	0.53
1:D:67:LYS:H	1:D:68:ILE:HD13	1.72	0.53
2:a:49:MET:HA	2:a:106:ILE:O	2.09	0.53
2:a:107:ILE:HG13	2:a:119:PHE:HB2	1.91	0.53
2:d:102:LEU:C	2:d:102:LEU:CD2	2.80	0.53
2:e:101:PHE:HD1	2:e:102:LEU:N	2.01	0.53
1:J:40:GLY:HA2	1:J:49:LEU:HD12	1.90	0.53
1:J:42:ALA:O	1:J:43:CYS:CB	2.56	0.53
1:J:153:ASP:C	1:J:155:SER:N	2.66	0.53
1:J:166:ILE:HA	1:J:170:ARG:HG2	1.91	0.53
1:M:41:ILE:HG23	1:M:163:ALA:HB2	1.90	0.53
1:M:70:GLN:HA	1:M:76:ALA:HB1	1.90	0.53
2:h:122:ASP:OD2	2:h:122:ASP:C	2.52	0.53
2:i:71:LEU:HD21	2:i:75:ARG:NH1	2.23	0.53
2:i:165:LEU:O	2:i:168:LEU:N	2.42	0.53
2:l:7:THR:HB	2:l:138:SER:HB3	1.90	0.53
2:m:35:LYS:HG2	2:m:35:LYS:O	2.09	0.53
2:m:69:ALA:O	2:m:80:ILE:HD11	2.08	0.53
1:B:67:LYS:C	1:B:68:ILE:HD13	2.34	0.53
1:C:162:LYS:HG3	1:C:181:TYR:OH	2.09	0.53
1:E:61:LYS:HE2	1:E:63:ARG:HG2	1.91	0.53
1:E:126:GLN:NE2	1:F:133:PHE:CE2	2.76	0.53
1:F:203:GLU:O	1:F:204:ASP:HB2	2.07	0.53
1:F:223:LYS:HG3	1:F:224:LYS:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:90:ILE:O	1:G:92:ARG:N	2.41	0.53
1:H:32:VAL:HG11	1:H:170:ARG:NH2	2.24	0.53
1:H:131:ARG:HG2	1:N:126:GLN:HB2	1.91	0.53
1:J:239:LYS:HG3	1:J:240:LYS:CE	2.37	0.53
1:J:239:LYS:C	1:J:240:LYS:HD3	2.34	0.53
1:K:153:ASP:H	1:K:157:ALA:HB2	1.73	0.53
1:M:100:TYR:CE2	1:M:108:ILE:HA	2.44	0.53
2:h:61:ILE:HG13	2:h:101:PHE:CZ	2.44	0.53
2:j:9:THR:O	2:j:135:ALA:HB1	2.09	0.53
2:k:49:MET:CB	2:k:107:ILE:HG22	2.35	0.53
1:A:92:ARG:HG2	1:A:92:ARG:HH21	1.73	0.53
1:C:80:SER:HB3	1:C:166:ILE:CD1	2.38	0.53
1:D:214:ILE:HD11	1:D:225:ILE:HG13	1.90	0.53
1:F:228:GLU:OE1	1:F:231:LYS:HD3	2.08	0.53
1:G:68:ILE:N	1:G:68:ILE:CD1	2.65	0.53
2:a:86:ALA:C	2:a:127:MET:HE1	2.34	0.53
2:b:13:ILE:HG12	2:b:18:VAL:HG22	1.90	0.53
2:b:88:LEU:HD23	2:b:92:ILE:HD11	1.91	0.53
2:b:172:MET:CE	2:b:179:GLY:HA2	2.39	0.53
2:b:184:LEU:HD23	2:b:185:ALA:N	2.23	0.53
2:c:83:LEU:HD23	2:c:83:LEU:H	1.73	0.53
2:d:8:THR:HG23	2:d:8:THR:O	2.08	0.53
2:d:173:GLU:O	2:d:174:ARG:HG2	2.08	0.53
2:e:111:ASP:O	2:e:112:LEU:C	2.50	0.53
1:J:40:GLY:C	1:J:41:ILE:HG13	2.33	0.53
1:L:122:GLN:CD	1:L:122:GLN:C	2.76	0.53
1:L:125:THR:HA	1:L:132:PRO:HG3	1.90	0.53
2:h:96:SER:O	2:h:99:PHE:O	2.26	0.53
2:i:187:ILE:HG22	2:i:192:VAL:CG2	2.32	0.53
2:j:88:LEU:CG	2:j:92:ILE:HD11	2.38	0.53
2:m:187:ILE:CG2	2:m:192:VAL:HG13	2.38	0.53
2:n:25:ARG:HE	2:n:32:VAL:HG13	1.73	0.53
1:A:162:LYS:HB3	1:A:181:TYR:CE2	2.43	0.53
1:B:24:GLN:O	1:B:25:VAL:C	2.51	0.53
1:B:231:LYS:O	1:B:235:GLU:HG2	2.08	0.53
1:D:50:ALA:HA	1:D:211:ASP:O	2.08	0.53
1:D:138:LEU:HD11	1:D:166:ILE:HG12	1.91	0.53
1:E:227:VAL:O	1:E:228:GLU:HB2	2.08	0.53
1:F:177:LEU:H	1:F:177:LEU:CD1	2.21	0.53
1:G:190:GLY:O	1:G:191:LEU:C	2.52	0.53
2:f:110:TYR:CE1	2:f:189:LYS:HD3	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:68:ILE:N	1:H:68:ILE:CD1	2.68	0.53
1:H:92:ARG:HG3	1:H:92:ARG:O	2.09	0.53
1:H:222:PHE:CD1	1:H:222:PHE:C	2.86	0.53
1:J:182:ARG:C	1:J:184:ASP:N	2.67	0.53
1:K:192:GLU:O	1:K:193:LEU:C	2.52	0.53
1:K:212:VAL:HG11	1:K:225:ILE:HD12	1.90	0.53
1:L:89:LEU:HD21	1:L:121:LYS:HD3	1.91	0.53
1:M:173:VAL:HA	1:M:176:LEU:HB3	1.90	0.53
1:N:55:ILE:HD11	1:N:62:ILE:HG23	1.91	0.53
1:N:231:LYS:O	1:N:234:ILE:HG22	2.09	0.53
2:k:184:LEU:HD13	2:k:195:PHE:CE1	2.44	0.53
1:C:90:ILE:C	1:C:92:ARG:N	2.60	0.53
1:C:173:VAL:O	1:C:177:LEU:HD13	2.09	0.53
1:E:87:ARG:O	1:E:88:VAL:C	2.49	0.53
1:E:170:ARG:HB3	1:E:174:MET:HE2	1.90	0.53
1:G:210:VAL:CG2	1:G:230:ILE:HG21	2.39	0.53
2:a:147:LEU:O	2:a:149:ALA:N	2.41	0.53
2:e:7:THR:N	2:e:23:ASP:OD1	2.41	0.53
1:H:90:ILE:C	1:H:92:ARG:N	2.53	0.53
1:H:106:GLU:O	1:H:107:GLU:C	2.51	0.53
1:I:223:LYS:HG3	1:I:224:LYS:N	2.23	0.53
1:I:231:LYS:O	1:I:235:GLU:HG2	2.09	0.53
1:J:14:THR:CG2	1:J:15:VAL:HG22	2.35	0.53
1:K:26:GLU:CG	1:K:29:ARG:HE	2.22	0.53
1:M:48:VAL:HG13	1:M:213:CYS:O	2.09	0.53
1:N:85:ASP:O	1:N:89:LEU:HD13	2.09	0.53
1:N:95:LEU:C	1:N:97:ALA:H	2.16	0.53
2:i:117:LYS:HB3	2:i:119:PHE:CE2	2.44	0.53
2:n:12:LEU:CD2	2:n:19:ILE:HB	2.36	0.53
1:B:68:ILE:HD11	1:B:211:ASP:CB	2.39	0.53
1:B:166:ILE:HA	1:B:170:ARG:HG2	1.91	0.53
1:F:173:VAL:C	1:F:177:LEU:HD13	2.33	0.53
1:F:219:ASP:OD1	1:F:221:GLN:HB3	2.09	0.53
2:b:168:LEU:O	2:b:169:LYS:C	2.51	0.53
2:c:201:GLU:O	2:c:203:ILE:N	2.42	0.53
2:d:172:MET:CB	2:d:179:GLY:HA2	2.39	0.53
2:e:161:ILE:O	2:e:165:LEU:HG	2.08	0.53
1:H:18:PRO:C	1:I:27:TYR:CD1	2.87	0.53
1:H:89:LEU:HD21	1:H:121:LYS:CD	2.39	0.53
1:I:18:PRO:O	1:J:27:TYR:CD1	2.62	0.53
1:J:29:ARG:O	1:J:32:VAL:N	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:72:ASP:C	1:K:74:HIS:H	2.16	0.53
1:L:161:TYR:HE2	1:M:60:VAL:HG22	1.74	0.53
1:N:96:GLU:HG2	1:N:116:LYS:CG	2.29	0.53
1:N:130:VAL:HG13	1:N:130:VAL:O	2.07	0.53
1:N:238:LYS:N	1:N:238:LYS:HD2	2.24	0.53
2:h:86:ALA:C	2:h:127:MET:HE1	2.34	0.53
2:i:140:SER:N	2:i:141:PRO:HD2	2.24	0.53
2:i:146:VAL:HG21	2:i:167:ALA:HA	1.90	0.53
2:i:202:LYS:O	2:i:205:ASP:HB2	2.08	0.53
2:j:173:GLU:O	2:j:173:GLU:HG2	2.08	0.53
2:k:161:ILE:HD12	2:k:162:LYS:N	2.24	0.53
2:n:40:LEU:CD1	2:n:50:THR:HG22	2.38	0.53
1:A:142:ILE:HG23	1:A:217:VAL:HG23	1.90	0.53
1:A:239:LYS:HE3	1:A:240:LYS:CE	2.40	0.53
1:B:216:THR:C	1:B:218:LYS:H	2.17	0.53
1:C:129:GLY:O	1:C:130:VAL:HB	2.08	0.53
1:D:90:ILE:HD12	1:D:94:ARG:HD2	1.91	0.53
1:F:79:THR:HG21	1:F:86:ALA:HB1	1.90	0.53
1:G:32:VAL:HG11	1:G:170:ARG:HH21	1.74	0.53
1:G:150:PHE:CE1	1:G:160:GLU:HB2	2.44	0.53
2:d:44:ASP:O	2:d:46:TYR:N	2.42	0.53
1:J:124:TYR:CE1	1:J:130:VAL:HG21	2.44	0.53
1:J:173:VAL:C	1:J:175:GLU:H	2.16	0.53
1:K:23:TYR:O	1:K:25:VAL:N	2.42	0.53
1:K:51:VAL:HG11	1:K:67:LYS:HG2	1.91	0.53
1:K:185:ILE:HD12	1:K:186:THR:O	2.09	0.53
1:L:15:VAL:HG21	1:L:24:GLN:HB2	1.89	0.53
1:M:15:VAL:HG23	1:M:22:LEU:HD21	1.91	0.53
2:h:188:THR:O	2:h:189:LYS:C	2.52	0.53
2:k:104:GLN:O	2:k:105:ILE:HG13	2.09	0.53
2:m:43:ILE:H	2:m:43:ILE:CD1	2.18	0.53
2:n:69:ALA:C	2:n:71:LEU:H	2.17	0.53
1:C:14:THR:HG22	1:C:15:VAL:N	2.23	0.52
1:C:14:THR:CG2	1:C:15:VAL:HG22	2.35	0.52
1:C:26:GLU:O	1:C:29:ARG:HB2	2.09	0.52
1:C:141:GLY:O	1:C:147:ALA:HA	2.09	0.52
1:D:15:VAL:HG21	1:D:24:GLN:N	2.18	0.52
1:F:207:PRO:HB3	1:F:231:LYS:HB2	1.90	0.52
2:a:200:ILE:O	2:a:202:LYS:N	2.42	0.52
2:c:25:ARG:HH11	2:c:32:VAL:HG22	1.74	0.52
2:c:158:GLU:O	2:c:161:ILE:HD12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e:35:LYS:HA	2:e:180:ASN:ND2	2.25	0.52
2:g:102:LEU:HD22	2:g:103:THR:HA	1.89	0.52
1:H:71:ILE:O	2:h:74:MET:HE1	2.08	0.52
1:I:122:GLN:O	1:I:125:THR:HB	2.08	0.52
1:K:182:ARG:O	1:K:184:ASP:N	2.42	0.52
1:L:60:VAL:O	1:L:61:LYS:C	2.52	0.52
2:i:88:LEU:O	2:i:92:ILE:N	2.33	0.52
2:i:96:SER:CB	2:i:101:PHE:HB2	2.39	0.52
2:k:82:PRO:C	2:k:84:ALA:H	2.17	0.52
2:k:122:ASP:OD2	2:k:122:ASP:C	2.52	0.52
2:k:142:ILE:HD11	2:k:174:ARG:O	2.09	0.52
1:A:161:TYR:CE2	1:B:60:VAL:HG13	2.44	0.52
1:A:182:ARG:O	1:A:185:ILE:HG23	2.09	0.52
1:A:206:LYS:HB2	1:A:209:ASN:HB2	1.91	0.52
1:B:129:GLY:O	1:B:130:VAL:HB	2.10	0.52
1:C:17:SER:HB3	1:C:21:ARG:O	2.08	0.52
1:C:41:ILE:HG23	1:C:163:ALA:CB	2.38	0.52
1:D:221:GLN:HG2	1:D:222:PHE:N	2.24	0.52
1:F:235:GLU:O	1:F:237:VAL:N	2.42	0.52
1:G:186:THR:HG23	1:G:189:GLU:OE2	2.09	0.52
1:G:208:GLU:C	1:G:208:GLU:OE1	2.51	0.52
2:c:25:ARG:HE	2:c:32:VAL:CG1	2.22	0.52
2:c:42:LYS:HD2	2:c:192:VAL:HB	1.91	0.52
2:e:43:ILE:HD13	2:e:43:ILE:H	1.74	0.52
2:e:137:GLY:O	2:e:138:SER:C	2.51	0.52
2:f:195:PHE:HB3	2:f:200:ILE:HG12	1.92	0.52
2:g:101:PHE:HD1	2:g:102:LEU:N	1.97	0.52
1:H:199:THR:HA	1:H:205:ILE:CD1	2.35	0.52
1:H:226:PRO:HG2	1:H:229:GLU:CG	2.40	0.52
1:J:214:ILE:HD11	1:J:225:ILE:HG13	1.91	0.52
1:K:83:VAL:HA	1:K:86:ALA:CB	2.39	0.52
1:N:37:THR:HG23	1:N:52:ASP:HB3	1.91	0.52
1:N:85:ASP:HA	1:N:88:VAL:CG2	2.39	0.52
2:h:8:THR:HA	2:h:137:GLY:HA3	1.91	0.52
2:j:69:ALA:O	2:j:71:LEU:N	2.40	0.52
2:j:101:PHE:HD1	2:j:102:LEU:N	1.96	0.52
1:B:66:GLU:CD	1:B:69:PHE:HE1	2.17	0.52
1:B:142:ILE:HG13	1:B:217:VAL:HA	1.90	0.52
1:D:94:ARG:NH1	2:d:75:ARG:HA	2.24	0.52
1:E:227:VAL:HA	1:E:230:ILE:HD12	1.90	0.52
2:a:140:SER:H	2:a:141:PRO:HD2	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:51:ILE:HG21	2:c:58:ALA:HB1	1.91	0.52
2:d:164:ALA:O	2:d:165:LEU:C	2.50	0.52
2:d:172:MET:HE3	2:d:179:GLY:C	2.33	0.52
2:f:49:MET:HB3	2:f:107:ILE:HG22	1.90	0.52
2:g:110:TYR:HE1	2:g:189:LYS:HZ3	1.54	0.52
1:H:75:VAL:HG21	1:H:110:ILE:HG12	1.92	0.52
1:I:15:VAL:HG21	1:I:24:GLN:H	1.74	0.52
1:I:68:ILE:N	1:I:68:ILE:CD1	2.67	0.52
1:I:87:ARG:O	1:I:90:ILE:N	2.42	0.52
1:J:89:LEU:HD21	1:J:133:PHE:CD1	2.44	0.52
1:K:52:ASP:HB2	1:K:198:LEU:HD11	1.92	0.52
1:K:109:SER:HB2	2:l:78:ARG:HH22	1.73	0.52
1:L:15:VAL:HB	1:L:23:TYR:HB2	1.90	0.52
1:M:87:ARG:O	1:M:88:VAL:C	2.53	0.52
1:M:173:VAL:C	1:M:175:GLU:N	2.64	0.52
1:M:242:ASN:C	1:M:244:GLU:N	2.67	0.52
1:N:15:VAL:HG21	1:N:24:GLN:H	1.74	0.52
2:h:19:ILE:HG23	2:h:184:LEU:HD21	1.92	0.52
2:i:83:LEU:HB3	2:i:119:PHE:HZ	1.75	0.52
2:j:39:LYS:HA	2:j:51:ILE:HD11	1.92	0.52
2:k:88:LEU:HB3	2:k:92:ILE:CD1	2.39	0.52
2:l:89:LEU:HD23	2:l:92:ILE:HD12	1.89	0.52
1:A:184:ASP:O	1:A:185:ILE:C	2.52	0.52
1:C:26:GLU:CG	1:C:29:ARG:HE	2.22	0.52
1:C:177:LEU:HA	1:C:180:GLU:OE1	2.09	0.52
1:G:24:GLN:O	1:G:25:VAL:C	2.52	0.52
1:G:43:CYS:SG	1:G:46:GLY:O	2.68	0.52
1:G:49:LEU:HD23	1:G:78:ALA:HB2	1.90	0.52
2:a:52:ALA:O	2:a:104:GLN:HB2	2.08	0.52
2:d:111:ASP:N	2:d:115:GLY:O	2.37	0.52
1:H:131:ARG:NE	1:N:126:GLN:HB3	2.25	0.52
1:I:48:VAL:HG22	1:I:214:ILE:HG23	1.90	0.52
1:I:61:LYS:HE2	1:I:63:ARG:HG2	1.90	0.52
1:J:186:THR:H	1:J:189:GLU:HB3	1.75	0.52
1:K:202:ASN:HB3	1:K:205:ILE:HG12	1.91	0.52
1:L:50:ALA:HA	1:L:211:ASP:O	2.10	0.52
2:h:16:ASP:HB3	2:h:189:LYS:NZ	2.23	0.52
2:i:83:LEU:HB3	2:i:119:PHE:CZ	2.44	0.52
2:i:142:ILE:HG21	2:i:171:ALA:HA	1.92	0.52
2:k:25:ARG:HB2	2:k:180:ASN:H	1.75	0.52
2:l:8:THR:HG23	2:l:8:THR:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l:86:ALA:HB1	2:l:127:MET:CE	2.40	0.52
1:A:89:LEU:HD11	1:A:133:PHE:CE1	2.44	0.52
1:B:192:GLU:HA	1:B:195:ILE:HD12	1.91	0.52
1:E:32:VAL:CG1	1:E:170:ARG:HH21	2.22	0.52
1:E:66:GLU:HB3	1:E:69:PHE:CE1	2.44	0.52
1:F:123:ALA:O	1:F:127:HIS:ND1	2.43	0.52
2:c:198:GLU:HG3	2:c:199:GLU:H	1.74	0.52
2:d:43:ILE:H	2:d:43:ILE:CD1	2.18	0.52
2:d:80:ILE:HD12	2:d:80:ILE:N	2.25	0.52
2:e:136:THR:HG23	2:e:136:THR:O	2.09	0.52
2:e:140:SER:OG	2:e:141:PRO:CD	2.58	0.52
2:f:82:PRO:C	2:f:84:ALA:H	2.17	0.52
2:g:135:ALA:N	2:g:144:TYR:HE1	2.07	0.52
1:I:184:ASP:O	1:I:185:ILE:C	2.53	0.52
1:N:207:PRO:C	1:N:208:GLU:HG3	2.34	0.52
1:N:231:LYS:C	1:N:233:LEU:H	2.17	0.52
2:h:43:ILE:HD13	2:h:43:ILE:N	2.21	0.52
2:i:88:LEU:O	2:i:91:ASN:N	2.41	0.52
2:m:9:THR:OG1	2:m:136:THR:HG23	2.09	0.52
1:A:173:VAL:O	1:A:177:LEU:HD13	2.10	0.52
1:B:22:LEU:C	1:B:22:LEU:CD2	2.83	0.52
1:B:48:VAL:HG13	1:B:213:CYS:O	2.10	0.52
1:B:114:ALA:O	1:B:116:LYS:N	2.43	0.52
1:B:226:PRO:HG2	1:B:229:GLU:CG	2.40	0.52
1:F:90:ILE:C	1:F:92:ARG:N	2.63	0.52
1:G:190:GLY:O	1:G:193:LEU:HB2	2.09	0.52
2:b:91:ASN:O	2:b:92:ILE:C	2.53	0.52
2:c:103:THR:H	2:c:123:PRO:CB	2.18	0.52
2:d:76:THR:HG23	2:d:76:THR:O	2.09	0.52
2:d:102:LEU:CA	2:d:123:PRO:HB3	2.34	0.52
2:d:155:MET:O	2:d:156:SER:O	2.28	0.52
2:e:199:GLU:O	2:e:202:LYS:HG2	2.08	0.52
2:f:121:LEU:HD11	2:f:127:MET:HB2	1.92	0.52
2:f:187:ILE:CG2	2:f:192:VAL:HG13	2.40	0.52
2:g:54:SER:OG	2:g:57:ASP:HB2	2.08	0.52
2:g:175:ASP:OD2	2:g:175:ASP:C	2.51	0.52
1:I:114:ALA:C	1:I:116:LYS:H	2.18	0.52
1:J:90:ILE:C	1:J:92:ARG:N	2.67	0.52
1:L:89:LEU:HD11	1:L:133:PHE:CG	2.45	0.52
1:L:161:TYR:HB3	1:L:163:ALA:H	1.74	0.52
1:M:90:ILE:O	1:M:94:ARG:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:170:ARG:CB	1:N:171:PRO:HD3	2.36	0.52
2:h:7:THR:HA	2:h:39:LYS:NZ	2.25	0.52
2:h:14:CYS:O	2:h:15:ASP:HB2	2.10	0.52
2:k:7:THR:N	2:k:23:ASP:OD1	2.42	0.52
2:m:169:LYS:HE3	2:m:204:LEU:HD21	1.90	0.52
2:m:172:MET:HE3	2:m:179:GLY:HA2	1.90	0.52
1:A:42:ALA:O	1:A:43:CYS:HB3	2.09	0.52
1:A:126:GLN:HB2	1:B:131:ARG:CG	2.40	0.52
1:B:215:ILE:HG12	1:B:222:PHE:HB2	1.91	0.52
1:D:239:LYS:HG3	1:D:240:LYS:CE	2.39	0.52
1:F:22:LEU:O	1:F:23:TYR:O	2.28	0.52
1:G:53:ARG:CB	1:G:65:ILE:HD13	2.31	0.52
2:a:60:ALA:HA	2:a:63:ARG:NH2	2.25	0.52
2:c:56:GLY:HA2	2:c:59:GLN:HB2	1.91	0.52
2:f:80:ILE:N	2:f:80:ILE:HD12	2.24	0.52
1:H:82:LEU:H	1:H:82:LEU:HD22	1.74	0.52
1:H:188:ASP:CA	1:H:191:LEU:HB2	2.38	0.52
1:I:51:VAL:HG11	1:I:67:LYS:CG	2.40	0.52
1:J:173:VAL:O	1:J:176:LEU:N	2.42	0.52
1:K:42:ALA:HB3	1:K:162:LYS:O	2.09	0.52
1:K:114:ALA:O	1:K:117:ILE:HD13	2.09	0.52
1:M:126:GLN:HB3	1:N:131:ARG:CZ	2.40	0.52
1:M:167:GLY:N	1:M:170:ARG:HG3	2.25	0.52
2:k:47:ILE:HG22	2:k:48:ALA:N	2.24	0.52
2:l:63:ARG:C	2:l:65:LEU:H	2.17	0.52
2:l:199:GLU:O	2:l:200:ILE:C	2.53	0.52
2:m:19:ILE:HG23	2:m:186:VAL:HG22	1.90	0.52
2:m:161:ILE:HD13	2:m:203:ILE:CD1	2.40	0.52
2:n:63:ARG:C	2:n:65:LEU:H	2.17	0.52
2:n:65:LEU:O	2:n:66:ILE:C	2.53	0.52
1:B:50:ALA:HA	1:B:211:ASP:O	2.09	0.52
1:C:94:ARG:HH12	2:c:75:ARG:HA	1.75	0.52
1:D:126:GLN:HB3	1:E:131:ARG:CZ	2.39	0.52
1:D:158:LEU:HD12	1:E:83:VAL:CG1	2.39	0.52
1:E:122:GLN:C	1:E:122:GLN:CD	2.77	0.52
1:G:41:ILE:HG23	1:G:163:ALA:HB2	1.92	0.52
1:G:66:GLU:OE1	1:G:69:PHE:HE1	1.93	0.52
1:G:68:ILE:HD13	1:G:68:ILE:H	1.69	0.52
2:a:89:LEU:HA	2:a:92:ILE:HD12	1.91	0.52
2:b:199:GLU:O	2:b:202:LYS:HG2	2.10	0.52
2:c:25:ARG:HD2	2:c:180:ASN:CB	2.37	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:63:ARG:C	2:c:65:LEU:H	2.17	0.52
2:c:102:LEU:C	2:c:102:LEU:CD2	2.77	0.52
2:c:165:LEU:HD21	2:c:184:LEU:HD12	1.92	0.52
2:d:188:THR:O	2:d:189:LYS:C	2.52	0.52
2:f:51:ILE:HG21	2:f:58:ALA:HB1	1.91	0.52
2:f:83:LEU:HB3	2:f:119:PHE:HZ	1.75	0.52
2:g:88:LEU:C	2:g:92:ILE:HG13	2.35	0.52
1:H:55:ILE:HD11	1:H:62:ILE:HG23	1.92	0.52
1:K:152:THR:HA	1:K:157:ALA:CB	2.40	0.52
2:j:172:MET:HE3	2:j:179:GLY:CA	2.40	0.52
2:k:96:SER:CA	2:k:99:PHE:HB2	2.38	0.52
2:k:140:SER:OG	2:k:141:PRO:HD3	2.10	0.52
1:A:38:ALA:CB	1:A:51:VAL:HG13	2.39	0.52
1:A:102:LEU:HD23	1:A:102:LEU:C	2.35	0.52
1:A:223:LYS:HG3	1:A:224:LYS:N	2.25	0.52
1:D:102:LEU:HD23	1:D:102:LEU:O	2.10	0.52
1:D:118:CYS:O	1:E:87:ARG:NH2	2.43	0.52
1:E:233:LEU:C	1:E:235:GLU:H	2.17	0.52
1:F:48:VAL:CG2	1:F:214:ILE:HG23	2.40	0.52
1:G:142:ILE:HG23	1:G:217:VAL:HG23	1.91	0.52
2:b:184:LEU:HB3	2:b:195:PHE:CD1	2.39	0.52
2:d:12:LEU:HD21	2:d:19:ILE:HB	1.91	0.52
2:d:63:ARG:NH1	2:d:63:ARG:HB2	2.25	0.52
2:d:121:LEU:CD1	2:d:127:MET:HB2	2.38	0.52
2:d:199:GLU:O	2:d:200:ILE:C	2.53	0.52
2:f:9:THR:O	2:f:135:ALA:HB1	2.09	0.52
2:f:176:THR:OG1	2:f:177:PHE:CD2	2.63	0.52
2:g:22:THR:HG21	2:g:39:LYS:C	2.35	0.52
1:H:144:LYS:HE3	2:i:78:ARG:HH11	1.74	0.52
1:H:158:LEU:HD12	1:I:83:VAL:HG11	1.92	0.52
1:I:110:ILE:HD11	1:I:141:GLY:C	2.35	0.52
1:J:32:VAL:HG22	1:J:80:SER:O	2.10	0.52
1:K:170:ARG:O	1:K:174:MET:HB2	2.10	0.52
2:h:20:LEU:O	2:h:184:LEU:CD2	2.56	0.52
2:k:63:ARG:C	2:k:65:LEU:H	2.18	0.52
2:m:72:TYR:C	2:m:72:TYR:CD2	2.88	0.52
1:A:27:TYR:CD1	1:G:18:PRO:O	2.63	0.52
1:A:242:ASN:O	1:A:243:GLU:HG2	2.08	0.52
1:B:53:ARG:HB3	1:B:65:ILE:HD11	1.91	0.52
1:D:30:GLU:O	1:D:31:ALA:C	2.52	0.52
1:D:102:LEU:C	1:D:102:LEU:CD2	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:66:GLU:HB3	1:F:69:PHE:HE1	1.75	0.52
1:F:154:PRO:O	1:F:155:SER:HB3	2.08	0.52
1:G:38:ALA:CB	1:G:51:VAL:HG13	2.36	0.52
2:c:137:GLY:O	2:c:138:SER:C	2.53	0.52
2:c:158:GLU:HA	2:c:161:ILE:HD11	1.91	0.52
2:f:140:SER:N	2:f:141:PRO:HD2	2.25	0.52
1:H:38:ALA:HB2	1:H:51:VAL:HG13	1.91	0.52
1:H:61:LYS:HE2	1:H:63:ARG:HG3	1.91	0.52
1:K:173:VAL:C	1:K:175:GLU:H	2.17	0.52
1:L:55:ILE:HD13	1:L:62:ILE:HG12	1.92	0.52
2:h:154:ASP:OD2	2:h:154:ASP:N	2.43	0.52
2:i:54:SER:CB	2:i:102:LEU:HD11	2.38	0.52
2:j:61:ILE:HG13	2:j:101:PHE:CZ	2.45	0.52
2:k:140:SER:N	2:k:141:PRO:CD	2.70	0.52
2:n:88:LEU:C	2:n:92:ILE:HG13	2.35	0.52
2:n:172:MET:HG2	2:n:179:GLY:HA2	1.92	0.52
1:E:185:ILE:HD12	1:E:186:THR:O	2.10	0.51
1:G:226:PRO:HG2	1:G:229:GLU:CG	2.39	0.51
2:a:113:LEU:HG	2:a:114:GLU:N	2.25	0.51
2:c:72:TYR:CD2	2:c:72:TYR:O	2.63	0.51
2:e:40:LEU:HD12	2:e:49:MET:O	2.08	0.51
2:e:157:VAL:HG23	2:e:158:GLU:N	2.24	0.51
2:f:65:LEU:HD23	2:f:65:LEU:O	2.10	0.51
1:H:166:ILE:HA	1:H:170:ARG:HG2	1.92	0.51
1:I:114:ALA:O	1:I:117:ILE:HD13	2.09	0.51
1:K:197:ALA:O	1:K:200:LYS:N	2.43	0.51
1:L:161:TYR:CE2	1:M:60:VAL:HG13	2.45	0.51
1:M:144:LYS:C	1:M:146:GLU:H	2.18	0.51
2:j:10:VAL:HG23	2:j:21:ALA:HB3	1.91	0.51
2:j:23:ASP:CG	2:j:23:ASP:O	2.52	0.51
2:j:110:TYR:CE1	2:j:189:LYS:HE2	2.44	0.51
2:k:80:ILE:N	2:k:80:ILE:HD12	2.26	0.51
2:m:135:ALA:HB3	2:m:144:TYR:CD1	2.46	0.51
2:n:80:ILE:HD12	2:n:80:ILE:H	1.72	0.51
1:B:226:PRO:HG2	1:B:229:GLU:HG2	1.91	0.51
1:E:126:GLN:NE2	1:F:133:PHE:HE2	2.08	0.51
1:F:48:VAL:CG1	1:F:49:LEU:N	2.72	0.51
1:F:207:PRO:CB	1:F:231:LYS:HB2	2.40	0.51
2:b:18:VAL:CG2	2:b:116:ALA:HB1	2.41	0.51
2:b:49:MET:CE	2:b:62:VAL:HG13	2.40	0.51
2:b:110:TYR:CE2	2:b:189:LYS:HB3	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e:69:ALA:C	2:e:71:LEU:N	2.69	0.51
2:e:80:ILE:HG21	2:e:85:CYS:HB2	1.92	0.51
2:f:63:ARG:C	2:f:65:LEU:N	2.68	0.51
2:f:101:PHE:CD1	2:f:102:LEU:N	2.74	0.51
2:g:152:ASP:O	2:g:155:MET:HG2	2.10	0.51
1:L:41:ILE:HG23	1:L:163:ALA:HB2	1.93	0.51
1:N:100:TYR:CD2	1:N:108:ILE:HB	2.45	0.51
2:k:111:ASP:N	2:k:115:GLY:O	2.35	0.51
2:l:9:THR:OG1	2:l:136:THR:CG2	2.50	0.51
2:m:43:ILE:HG12	2:m:44:ASP:N	2.24	0.51
1:A:108:ILE:CD1	1:A:113:LEU:HB2	2.40	0.51
1:C:90:ILE:O	1:C:92:ARG:N	2.40	0.51
1:D:14:THR:HG22	1:D:15:VAL:CG2	2.41	0.51
1:D:74:HIS:CD2	1:D:75:VAL:HG23	2.45	0.51
1:E:96:GLU:CG	1:E:116:LYS:HG2	2.33	0.51
1:F:99:ILE:HG22	1:F:100:TYR:N	2.24	0.51
2:a:54:SER:CB	2:a:102:LEU:HD11	2.40	0.51
2:d:137:GLY:O	2:d:140:SER:N	2.43	0.51
2:g:135:ALA:H	2:g:144:TYR:HE1	1.57	0.51
1:I:189:GLU:O	1:I:193:LEU:HD13	2.09	0.51
1:J:18:PRO:HA	1:K:27:TYR:CD1	2.46	0.51
1:J:32:VAL:C	1:J:34:ARG:N	2.68	0.51
1:J:42:ALA:O	1:J:43:CYS:HB3	2.09	0.51
1:J:94:ARG:NH1	2:j:75:ARG:HA	2.24	0.51
1:N:14:THR:HG22	1:N:15:VAL:N	2.24	0.51
1:N:82:LEU:HD13	1:N:82:LEU:N	2.21	0.51
1:N:182:ARG:C	1:N:184:ASP:N	2.66	0.51
2:i:54:SER:OG	2:i:57:ASP:HB2	2.10	0.51
2:i:61:ILE:O	2:i:61:ILE:CG2	2.57	0.51
2:j:16:ASP:HB3	2:j:189:LYS:NZ	2.26	0.51
2:k:121:LEU:HD11	2:k:127:MET:HB2	1.92	0.51
2:l:185:ALA:HB1	2:l:193:LYS:O	2.10	0.51
2:m:43:ILE:HG22	2:m:66:ILE:HG12	1.92	0.51
2:m:130:GLU:CG	2:m:134:THR:HB	2.25	0.51
1:A:15:VAL:HB	1:A:23:TYR:HB2	1.91	0.51
1:C:85:ASP:HA	1:C:88:VAL:CG2	2.41	0.51
1:E:83:VAL:O	1:E:83:VAL:HG13	2.10	0.51
1:E:93:ALA:C	1:E:95:LEU:N	2.65	0.51
1:G:180:GLU:CD	1:G:180:GLU:N	2.59	0.51
1:G:228:GLU:OE1	1:G:231:LYS:HD3	2.11	0.51
2:a:40:LEU:HD12	2:a:49:MET:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:83:LEU:HB3	2:a:119:PHE:HZ	1.75	0.51
2:c:142:ILE:O	2:c:143:ALA:C	2.53	0.51
2:d:24:LYS:HB3	2:d:36:GLU:HA	1.92	0.51
2:d:97:ARG:C	2:d:99:PHE:N	2.61	0.51
2:d:189:LYS:HE3	2:d:189:LYS:H	1.71	0.51
1:K:57:SER:OG	1:K:59:LEU:HD13	2.10	0.51
1:L:37:THR:HG22	1:L:54:ARG:HH11	1.75	0.51
1:L:66:GLU:HB3	1:L:69:PHE:CE1	2.46	0.51
1:L:102:LEU:HD11	2:l:64:LEU:HA	1.93	0.51
2:j:10:VAL:HG12	2:j:135:ALA:HB2	1.92	0.51
2:j:83:LEU:HD22	2:j:117:LYS:HE3	1.92	0.51
2:m:69:ALA:HA	2:m:80:ILE:HG12	1.91	0.51
1:A:223:LYS:HG3	1:A:224:LYS:H	1.76	0.51
1:B:18:PRO:O	1:C:27:TYR:CD1	2.64	0.51
1:F:66:GLU:HB3	1:F:69:PHE:CE1	2.45	0.51
1:G:45:ASP:OD2	1:G:45:ASP:N	2.44	0.51
1:G:112:MET:HA	1:G:112:MET:CE	2.38	0.51
2:c:111:ASP:O	2:c:112:LEU:C	2.53	0.51
2:e:169:LYS:CE	2:e:204:LEU:HD21	2.41	0.51
2:g:165:LEU:O	2:g:169:LYS:N	2.40	0.51
1:H:95:LEU:C	1:H:97:ALA:N	2.67	0.51
1:H:95:LEU:C	1:H:97:ALA:H	2.19	0.51
1:I:68:ILE:HD11	1:I:211:ASP:OD2	2.10	0.51
1:J:68:ILE:HG22	1:J:78:ALA:CB	2.40	0.51
1:L:72:ASP:C	1:L:74:HIS:H	2.19	0.51
2:h:62:VAL:HG12	2:h:66:ILE:HD11	1.92	0.51
2:j:43:ILE:HD11	2:j:47:ILE:CB	2.40	0.51
2:j:202:LYS:O	2:j:205:ASP:HB2	2.10	0.51
2:n:82:PRO:C	2:n:84:ALA:H	2.18	0.51
2:n:175:ASP:C	2:n:175:ASP:OD2	2.53	0.51
1:A:116:LYS:O	1:A:120:ILE:HG13	2.11	0.51
1:C:22:LEU:HD23	1:C:23:TYR:H	1.72	0.51
1:C:93:ALA:C	1:C:95:LEU:H	2.18	0.51
1:C:188:ASP:HA	1:C:191:LEU:HB2	1.91	0.51
1:D:17:SER:HB3	1:D:21:ARG:C	2.36	0.51
1:E:162:LYS:HG2	1:E:183:ASP:OD1	2.11	0.51
1:E:185:ILE:HG13	1:E:185:ILE:O	2.10	0.51
1:F:32:VAL:C	1:F:34:ARG:N	2.66	0.51
1:G:68:ILE:HG22	1:G:78:ALA:HB2	1.91	0.51
2:g:71:LEU:HD21	2:g:75:ARG:HH11	1.71	0.51
1:H:161:TYR:HB3	1:H:163:ALA:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:177:LEU:O	1:H:179:LYS:N	2.44	0.51
1:I:40:GLY:HA2	1:I:49:LEU:HD12	1.92	0.51
1:I:152:THR:HA	1:I:157:ALA:CB	2.36	0.51
1:J:173:VAL:C	1:J:175:GLU:N	2.68	0.51
1:N:68:ILE:CD1	1:N:211:ASP:HB3	2.41	0.51
2:h:199:GLU:O	2:h:200:ILE:C	2.53	0.51
2:i:63:ARG:C	2:i:65:LEU:N	2.69	0.51
2:j:111:ASP:N	2:j:115:GLY:O	2.39	0.51
2:l:185:ALA:HA	2:l:193:LYS:O	2.10	0.51
2:m:187:ILE:HG22	2:m:192:VAL:CG2	2.36	0.51
2:n:7:THR:HA	2:n:39:LYS:HZ2	1.75	0.51
2:n:34:ASP:C	2:n:36:GLU:H	2.19	0.51
1:A:114:ALA:C	1:A:116:LYS:H	2.18	0.51
1:B:68:ILE:HD11	1:B:211:ASP:OD2	2.11	0.51
1:D:52:ASP:CB	1:D:198:LEU:HD21	2.38	0.51
1:G:168:SER:OG	1:G:169:GLY:N	2.42	0.51
1:G:181:TYR:CE1	1:G:185:ILE:HG12	2.45	0.51
2:b:96:SER:HA	2:b:99:PHE:HB2	1.91	0.51
2:b:169:LYS:HE3	2:b:204:LEU:HD21	1.92	0.51
2:c:86:ALA:O	2:c:127:MET:HE1	2.11	0.51
2:d:96:SER:O	2:d:99:PHE:O	2.28	0.51
1:H:199:THR:CA	1:H:205:ILE:HD11	2.32	0.51
1:I:222:PHE:C	1:I:222:PHE:CD1	2.88	0.51
1:J:102:LEU:HD11	2:j:64:LEU:HA	1.92	0.51
1:K:187:LEU:O	1:K:191:LEU:N	2.44	0.51
1:L:166:ILE:HA	1:L:170:ARG:HG2	1.93	0.51
1:N:23:TYR:O	1:N:24:GLN:C	2.53	0.51
2:k:43:ILE:HG22	2:k:66:ILE:HG12	1.93	0.51
2:k:88:LEU:HD23	2:k:92:ILE:HD11	1.91	0.51
2:m:23:ASP:CG	2:m:23:ASP:O	2.54	0.51
2:n:25:ARG:HH11	2:n:32:VAL:HG22	1.76	0.51
2:n:176:THR:OG1	2:n:177:PHE:HD2	1.93	0.51
1:B:223:LYS:HG3	1:B:224:LYS:H	1.75	0.51
1:D:135:VAL:O	1:D:154:PRO:HD3	2.11	0.51
1:D:208:GLU:C	1:D:210:VAL:N	2.69	0.51
1:E:89:LEU:HD11	1:E:133:PHE:CD1	2.46	0.51
1:G:176:LEU:HD12	1:G:176:LEU:O	2.11	0.51
2:d:43:ILE:HD11	2:d:47:ILE:CG2	2.41	0.51
2:e:43:ILE:CD1	2:e:47:ILE:HG22	2.35	0.51
1:J:226:PRO:HG2	1:J:229:GLU:HG3	1.93	0.51
1:K:82:LEU:HD23	1:K:85:ASP:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:39:ILE:HD11	1:L:173:VAL:HG21	1.93	0.51
1:L:227:VAL:O	1:L:228:GLU:HB2	2.10	0.51
1:M:158:LEU:HD12	1:N:83:VAL:CG2	2.41	0.51
1:N:32:VAL:O	1:N:34:ARG:N	2.44	0.51
1:N:235:GLU:HA	1:N:235:GLU:OE2	2.11	0.51
2:h:59:GLN:HG3	2:i:126:GLY:HA2	1.91	0.51
2:j:89:LEU:HD22	2:j:93:LEU:CD2	2.41	0.51
2:j:94:HIS:O	2:j:97:ARG:HG2	2.10	0.51
2:k:198:GLU:O	2:k:201:GLU:HB3	2.10	0.51
2:n:110:TYR:CE1	2:n:189:LYS:NZ	2.79	0.51
1:A:227:VAL:O	1:A:228:GLU:HB2	2.11	0.51
1:A:239:LYS:C	1:A:240:LYS:HD3	2.36	0.51
1:B:48:VAL:CG2	1:B:214:ILE:HG23	2.41	0.51
1:B:207:PRO:C	1:B:208:GLU:HG3	2.36	0.51
1:C:50:ALA:HA	1:C:211:ASP:O	2.11	0.51
1:D:71:ILE:HD11	1:D:90:ILE:HB	1.93	0.51
1:E:22:LEU:O	1:E:23:TYR:O	2.29	0.51
1:E:188:ASP:CA	1:E:191:LEU:HB2	2.37	0.51
1:G:238:LYS:HD2	1:G:238:LYS:H	1.76	0.51
2:a:135:ALA:HB3	2:a:144:TYR:CD1	2.46	0.51
2:a:197:ASP:O	2:a:200:ILE:HG13	2.11	0.51
2:b:40:LEU:CD1	2:b:50:THR:HG22	2.41	0.51
2:b:195:PHE:HB3	2:b:199:GLU:OE1	2.09	0.51
2:d:58:ALA:O	2:d:62:VAL:HG23	2.09	0.51
2:e:65:LEU:O	2:e:68:GLU:N	2.44	0.51
1:H:122:GLN:O	1:H:125:THR:HB	2.11	0.51
1:I:125:THR:HG22	1:J:131:ARG:NE	2.09	0.51
1:L:70:GLN:HA	1:L:76:ALA:CB	2.41	0.51
1:M:19:GLU:OE1	1:M:19:GLU:N	2.44	0.51
1:M:22:LEU:O	1:M:23:TYR:O	2.27	0.51
1:M:158:LEU:HD12	1:N:83:VAL:CG1	2.41	0.51
1:N:61:LYS:C	1:N:63:ARG:H	2.18	0.51
1:N:233:LEU:C	1:N:235:GLU:N	2.67	0.51
2:h:155:MET:O	2:h:156:SER:O	2.29	0.51
2:l:25:ARG:HH11	2:l:32:VAL:HG21	1.76	0.51
2:l:60:ALA:O	2:l:62:VAL:N	2.43	0.51
2:l:86:ALA:C	2:l:88:LEU:H	2.18	0.51
2:m:23:ASP:OD2	2:m:25:ARG:HB3	2.11	0.51
2:m:43:ILE:HD11	2:m:47:ILE:CG2	2.41	0.51
2:n:9:THR:O	2:n:135:ALA:HB1	2.11	0.51
1:A:190:GLY:HA2	1:A:193:LEU:HD22	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:162:LYS:HG3	1:D:181:TYR:OH	2.11	0.51
1:E:82:LEU:N	1:E:82:LEU:CD1	2.74	0.51
1:G:122:GLN:O	1:G:125:THR:HB	2.11	0.51
2:a:7:THR:CG2	2:a:138:SER:HB3	2.41	0.51
2:b:51:ILE:CG2	2:b:58:ALA:HB1	2.41	0.51
2:c:69:ALA:HA	2:c:80:ILE:HG12	1.93	0.51
2:e:9:THR:O	2:e:135:ALA:HB1	2.11	0.51
2:e:26:ALA:HB3	2:e:34:ASP:H	1.76	0.51
2:e:202:LYS:HG3	2:e:203:ILE:H	1.72	0.51
2:g:45:ASP:OD1	2:g:45:ASP:N	2.44	0.51
2:g:49:MET:HB3	2:g:107:ILE:HG22	1.92	0.51
2:g:103:THR:H	2:g:123:PRO:CB	2.24	0.51
1:H:70:GLN:HA	1:H:76:ALA:HB2	1.93	0.51
1:H:72:ASP:C	1:H:74:HIS:H	2.18	0.51
1:H:173:VAL:C	1:H:175:GLU:N	2.66	0.51
1:I:158:LEU:HD12	1:J:83:VAL:HG11	1.93	0.51
1:K:90:ILE:HD12	1:K:94:ARG:HD2	1.92	0.51
1:K:131:ARG:O	1:K:131:ARG:HG3	2.10	0.51
1:M:82:LEU:HD11	1:M:134:GLY:HA3	1.92	0.51
1:M:126:GLN:OE1	1:N:133:PHE:HE2	1.93	0.51
1:M:151:GLU:O	1:M:159:ILE:HG13	2.11	0.51
1:M:227:VAL:HA	1:M:230:ILE:HD12	1.93	0.51
1:N:52:ASP:HB2	1:N:198:LEU:CG	2.41	0.51
2:h:88:LEU:HB3	2:h:92:ILE:HD11	1.93	0.51
2:i:132:THR:HB	2:i:133:PHE:HD1	1.75	0.51
2:l:102:LEU:CA	2:l:123:PRO:HB3	2.38	0.51
2:l:110:TYR:CE1	2:l:189:LYS:NZ	2.79	0.51
2:l:152:ASP:O	2:l:153:ARG:C	2.54	0.51
2:m:25:ARG:NH1	2:m:32:VAL:HG21	2.19	0.51
1:A:102:LEU:HD23	1:A:103:THR:HG23	1.93	0.50
1:B:36:THR:HA	1:B:54:ARG:NH1	2.26	0.50
1:B:80:SER:HB3	1:B:166:ILE:HD12	1.93	0.50
1:B:173:VAL:O	1:B:177:LEU:HD13	2.11	0.50
1:G:82:LEU:HD11	1:G:134:GLY:HA3	1.94	0.50
1:G:173:VAL:O	1:G:177:LEU:HD13	2.11	0.50
2:a:19:ILE:O	2:a:20:LEU:HD23	2.11	0.50
2:b:25:ARG:HE	2:b:32:VAL:CG1	2.24	0.50
2:d:161:ILE:O	2:d:165:LEU:HG	2.11	0.50
2:g:71:LEU:O	2:g:72:TYR:C	2.52	0.50
1:H:106:GLU:OE2	2:i:81:PRO:HG2	2.11	0.50
1:H:178:GLU:HA	1:I:59:LEU:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:192:GLU:HA	1:I:195:ILE:HD12	1.93	0.50
1:I:210:VAL:HG23	1:I:230:ILE:HG21	1.93	0.50
1:J:121:LYS:HE3	1:J:153:ASP:O	2.11	0.50
1:K:14:THR:HG22	1:K:15:VAL:N	2.25	0.50
1:K:32:VAL:HG11	1:K:170:ARG:NH2	2.26	0.50
1:K:39:ILE:HG12	1:K:165:ALA:HB2	1.92	0.50
1:K:85:ASP:HA	1:K:88:VAL:CG2	2.41	0.50
1:L:15:VAL:HG21	1:L:24:GLN:H	1.75	0.50
1:L:144:LYS:C	1:L:146:GLU:H	2.19	0.50
1:M:24:GLN:O	1:M:25:VAL:C	2.54	0.50
2:i:82:PRO:C	2:i:84:ALA:N	2.69	0.50
2:i:135:ALA:H	2:i:144:TYR:HE1	1.58	0.50
2:k:23:ASP:C	2:k:25:ARG:H	2.19	0.50
2:k:25:ARG:HH11	2:k:32:VAL:CG2	2.23	0.50
2:n:172:MET:CG	2:n:179:GLY:HA2	2.41	0.50
1:E:64:SER:O	1:E:66:GLU:N	2.44	0.50
2:a:102:LEU:HD22	2:a:103:THR:N	2.26	0.50
2:b:97:ARG:C	2:b:99:PHE:H	2.18	0.50
2:b:182:ILE:HG12	2:b:183:SER:N	2.26	0.50
2:c:161:ILE:HD12	2:c:162:LYS:N	2.25	0.50
2:d:16:ASP:C	2:d:189:LYS:HZ1	2.19	0.50
2:d:88:LEU:O	2:d:92:ILE:HG13	2.11	0.50
2:e:58:ALA:O	2:e:62:VAL:HG23	2.12	0.50
2:e:169:LYS:HZ2	2:e:204:LEU:HD11	1.75	0.50
2:f:82:PRO:O	2:f:84:ALA:N	2.45	0.50
1:H:114:ALA:C	1:H:116:LYS:H	2.19	0.50
1:I:39:ILE:HG23	1:I:164:THR:O	2.12	0.50
1:K:63:ARG:HD3	1:K:63:ARG:N	2.25	0.50
1:L:239:LYS:C	1:L:240:LYS:HD3	2.36	0.50
1:L:242:ASN:O	1:L:244:GLU:HG3	2.11	0.50
1:N:49:LEU:HD23	1:N:78:ALA:HB2	1.92	0.50
2:h:85:CYS:O	2:h:88:LEU:HB2	2.11	0.50
2:i:82:PRO:O	2:i:84:ALA:N	2.44	0.50
2:j:7:THR:HA	2:j:39:LYS:NZ	2.26	0.50
2:l:83:LEU:HD23	2:l:83:LEU:H	1.75	0.50
2:n:184:LEU:HD22	2:n:195:PHE:CE1	2.45	0.50
2:n:195:PHE:HB3	2:n:200:ILE:HG12	1.94	0.50
1:A:66:GLU:HB3	1:A:69:PHE:HE1	1.75	0.50
1:A:231:LYS:O	1:A:235:GLU:HG2	2.11	0.50
1:C:239:LYS:HE3	1:C:240:LYS:HZ1	1.77	0.50
1:D:26:GLU:HA	1:D:29:ARG:CG	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:55:ILE:HD11	1:D:62:ILE:HG23	1.94	0.50
1:F:198:LEU:HD23	1:F:198:LEU:O	2.10	0.50
1:F:234:ILE:O	1:F:237:VAL:HB	2.10	0.50
1:G:186:THR:H	1:G:189:GLU:HB3	1.75	0.50
2:b:103:THR:H	2:b:123:PRO:HB3	1.75	0.50
2:c:143:ALA:O	2:c:146:VAL:HB	2.11	0.50
2:d:107:ILE:CG1	2:d:119:PHE:HB2	2.41	0.50
2:f:23:ASP:O	2:f:39:LYS:HD2	2.11	0.50
2:f:199:GLU:O	2:f:200:ILE:C	2.52	0.50
1:H:51:VAL:HG11	1:H:67:LYS:HG3	1.93	0.50
1:H:158:LEU:HD12	1:I:83:VAL:HG13	1.93	0.50
1:J:164:THR:HG23	1:J:165:ALA:N	2.26	0.50
1:M:106:GLU:O	1:M:107:GLU:C	2.54	0.50
1:M:121:LYS:HZ3	1:M:137:LEU:HD12	1.76	0.50
1:M:167:GLY:N	1:M:170:ARG:CG	2.74	0.50
1:N:33:ARG:HB3	1:N:33:ARG:HH11	1.76	0.50
2:j:136:THR:C	2:j:140:SER:HB3	2.37	0.50
2:j:169:LYS:HE3	2:j:204:LEU:HD21	1.92	0.50
2:m:62:VAL:HG12	2:m:66:ILE:HD11	1.94	0.50
2:m:88:LEU:O	2:m:92:ILE:N	2.33	0.50
2:n:8:THR:HG23	2:n:8:THR:O	2.11	0.50
2:n:12:LEU:HD23	2:n:12:LEU:N	2.26	0.50
2:n:161:ILE:O	2:n:164:ALA:HB3	2.11	0.50
1:C:102:LEU:HD11	2:c:64:LEU:HA	1.93	0.50
1:C:106:GLU:OE2	2:d:81:PRO:HG2	2.11	0.50
1:F:47:VAL:HG12	1:F:147:ALA:HB1	1.93	0.50
2:b:43:ILE:HG12	2:b:44:ASP:N	2.27	0.50
2:c:24:LYS:HE2	2:c:183:SER:HB2	1.94	0.50
2:c:175:ASP:CG	2:c:178:SER:H	2.19	0.50
2:f:198:GLU:HG3	2:f:199:GLU:H	1.76	0.50
1:J:196:THR:O	1:J:197:ALA:C	2.54	0.50
1:K:72:ASP:O	1:K:74:HIS:N	2.44	0.50
1:L:68:ILE:HD11	1:L:211:ASP:OD2	2.10	0.50
1:L:231:LYS:O	1:L:235:GLU:HG2	2.12	0.50
2:k:22:THR:CB	2:k:39:LYS:HB2	2.41	0.50
2:k:172:MET:HE3	2:k:179:GLY:C	2.36	0.50
1:B:18:PRO:C	1:C:27:TYR:CD1	2.89	0.50
1:B:83:VAL:HA	1:B:86:ALA:CB	2.42	0.50
1:B:87:ARG:O	1:B:90:ILE:N	2.41	0.50
1:G:14:THR:CG2	1:G:15:VAL:HG22	2.26	0.50
1:G:103:THR:O	1:G:104:TYR:CG	2.65	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:59:GLN:HA	2:a:59:GLN:HE21	1.75	0.50
2:a:96:SER:CA	2:a:99:PHE:HB2	2.42	0.50
2:b:61:ILE:HG13	2:b:101:PHE:CZ	2.46	0.50
2:b:82:PRO:O	2:b:84:ALA:N	2.44	0.50
2:d:146:VAL:HG12	2:d:147:LEU:N	2.26	0.50
2:g:63:ARG:O	2:g:65:LEU:N	2.42	0.50
1:H:27:TYR:CD1	1:N:18:PRO:O	2.64	0.50
1:J:160:GLU:O	1:K:61:LYS:HB3	2.11	0.50
1:J:202:ASN:ND2	1:J:205:ILE:HG23	2.27	0.50
2:h:23:ASP:O	2:h:39:LYS:HD2	2.11	0.50
2:k:61:ILE:HD11	2:k:93:LEU:HD11	1.94	0.50
2:k:67:ALA:O	2:k:71:LEU:HB2	2.11	0.50
2:n:113:LEU:HG	2:n:114:GLU:N	2.25	0.50
1:B:173:VAL:C	1:B:175:GLU:N	2.69	0.50
1:E:100:TYR:C	1:E:100:TYR:CD2	2.89	0.50
1:E:122:GLN:CD	1:E:122:GLN:O	2.55	0.50
1:F:231:LYS:C	1:F:233:LEU:H	2.20	0.50
2:c:137:GLY:O	2:c:140:SER:HB3	2.11	0.50
2:d:60:ALA:HA	2:d:63:ARG:NH2	2.27	0.50
2:g:16:ASP:C	2:g:189:LYS:HZ1	2.18	0.50
1:I:61:LYS:HE2	1:I:63:ARG:HG3	1.94	0.50
1:J:161:TYR:CD2	1:J:164:THR:HB	2.47	0.50
1:K:18:PRO:O	1:L:27:TYR:CD1	2.65	0.50
1:L:62:ILE:O	1:L:65:ILE:HG22	2.11	0.50
1:L:233:LEU:C	1:L:235:GLU:H	2.19	0.50
1:M:51:VAL:HG11	1:M:67:LYS:CG	2.42	0.50
1:M:226:PRO:HG2	1:M:229:GLU:HG3	1.91	0.50
1:N:208:GLU:C	1:N:208:GLU:OE1	2.55	0.50
2:h:111:ASP:O	2:h:112:LEU:C	2.54	0.50
2:k:79:ASN:O	2:k:80:ILE:C	2.55	0.50
2:l:31:LEU:HD12	2:l:32:VAL:H	1.76	0.50
2:n:69:ALA:HB1	2:n:80:ILE:CD1	2.42	0.50
2:n:111:ASP:O	2:n:112:LEU:C	2.53	0.50
1:B:71:ILE:HG21	1:B:113:LEU:HD21	1.92	0.50
1:C:80:SER:HB3	1:C:166:ILE:HD12	1.94	0.50
1:D:137:LEU:N	1:D:152:THR:OG1	2.43	0.50
1:E:52:ASP:HB2	1:E:198:LEU:HD21	1.93	0.50
1:E:69:PHE:HD2	1:E:90:ILE:HG21	1.76	0.50
1:E:121:LYS:CD	1:E:133:PHE:HD1	2.25	0.50
1:F:22:LEU:HD22	1:F:25:VAL:CG1	2.39	0.50
1:F:217:VAL:HG22	1:F:217:VAL:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:26:GLU:HA	1:G:29:ARG:HG3	1.92	0.50
1:G:39:ILE:HG12	1:G:165:ALA:CB	2.41	0.50
2:b:20:LEU:O	2:b:184:LEU:HD23	2.11	0.50
2:e:86:ALA:HB1	2:e:127:MET:CE	2.42	0.50
2:f:86:ALA:C	2:f:127:MET:HE1	2.36	0.50
1:H:32:VAL:CG1	1:H:170:ARG:HH21	2.24	0.50
1:J:26:GLU:CG	1:J:29:ARG:HE	2.21	0.50
1:J:87:ARG:O	1:J:89:LEU:N	2.45	0.50
1:L:17:SER:HB3	1:L:21:ARG:C	2.37	0.50
1:M:166:ILE:HA	1:M:170:ARG:CD	2.41	0.50
1:M:202:ASN:C	1:M:202:ASN:OD1	2.54	0.50
1:N:71:ILE:C	2:n:74:MET:HE1	2.36	0.50
2:i:140:SER:OG	2:i:141:PRO:N	2.45	0.50
2:k:168:LEU:O	2:k:169:LYS:C	2.54	0.50
2:k:175:ASP:C	2:k:175:ASP:OD2	2.54	0.50
2:m:196:GLU:O	2:m:197:ASP:C	2.54	0.50
2:m:205:ASP:OD2	2:m:205:ASP:N	2.44	0.50
1:A:83:VAL:CG1	1:G:158:LEU:HD12	2.41	0.50
1:C:182:ARG:NH1	1:C:184:ASP:OD2	2.44	0.50
1:C:231:LYS:O	1:C:235:GLU:HG2	2.11	0.50
1:F:55:ILE:CD1	1:F:62:ILE:HG23	2.42	0.50
1:G:215:ILE:HG12	1:G:222:PHE:HB2	1.93	0.50
2:b:140:SER:O	2:b:143:ALA:N	2.45	0.50
2:d:77:GLY:O	2:d:78:ARG:C	2.54	0.50
2:d:88:LEU:O	2:d:92:ILE:N	2.37	0.50
2:g:199:GLU:O	2:g:202:LYS:HG2	2.12	0.50
1:H:235:GLU:HA	1:H:235:GLU:OE2	2.11	0.50
1:J:206:LYS:HB2	1:J:209:ASN:HB2	1.93	0.50
1:L:25:VAL:CG2	1:L:26:GLU:N	2.75	0.50
1:M:228:GLU:HA	1:M:231:LYS:HB3	1.93	0.50
1:N:17:SER:HB3	1:N:22:LEU:HA	1.94	0.50
1:N:235:GLU:O	1:N:237:VAL:N	2.45	0.50
2:h:63:ARG:O	2:h:65:LEU:N	2.45	0.50
2:h:111:ASP:N	2:h:115:GLY:O	2.45	0.50
2:j:11:GLY:HA2	2:j:19:ILE:O	2.12	0.50
2:k:144:TYR:O	2:k:147:LEU:N	2.45	0.50
2:k:188:THR:O	2:k:189:LYS:C	2.55	0.50
2:n:154:ASP:OD2	2:n:154:ASP:N	2.45	0.50
2:n:199:GLU:O	2:n:200:ILE:C	2.54	0.50
1:A:213:CYS:HG	1:A:222:PHE:HZ	1.56	0.50
1:C:71:ILE:O	2:c:74:MET:HE1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:180:GLU:H	1:C:180:GLU:CD	2.19	0.50
1:D:74:HIS:O	1:D:75:VAL:HG23	2.12	0.50
1:D:162:LYS:O	1:D:163:ALA:HB2	2.11	0.50
1:F:15:VAL:HG21	1:F:24:GLN:HB2	1.93	0.50
1:F:62:ILE:O	1:F:62:ILE:HG22	2.12	0.50
1:F:186:THR:OG1	1:F:189:GLU:CB	2.52	0.50
1:G:70:GLN:C	1:G:71:ILE:HD13	2.36	0.50
2:a:7:THR:O	2:a:8:THR:HB	2.11	0.50
1:H:206:LYS:HB2	1:H:209:ASN:HB2	1.93	0.50
1:I:148:ARG:HD2	1:I:160:GLU:CD	2.36	0.50
1:I:161:TYR:CE2	1:J:60:VAL:HG13	2.47	0.50
1:I:177:LEU:H	1:I:177:LEU:HD12	1.77	0.50
1:J:69:PHE:HE2	1:J:79:THR:HG21	1.77	0.50
1:J:103:THR:O	1:J:104:TYR:CG	2.65	0.50
1:J:184:ASP:O	1:J:185:ILE:C	2.54	0.50
1:K:28:ALA:O	1:K:29:ARG:C	2.54	0.50
1:L:22:LEU:HD13	1:L:25:VAL:HG11	1.93	0.50
1:L:119:ASP:OD1	1:M:87:ARG:NH2	2.42	0.50
1:N:69:PHE:O	1:N:76:ALA:HB1	2.12	0.50
1:N:80:SER:HB3	1:N:166:ILE:CD1	2.41	0.50
1:N:94:ARG:NH1	2:n:75:ARG:HA	2.27	0.50
2:h:9:THR:HG22	2:h:22:THR:CG2	2.38	0.50
2:h:94:HIS:CD2	2:h:97:ARG:HD3	2.46	0.50
2:i:25:ARG:HB2	2:i:180:ASN:CB	2.41	0.50
2:l:7:THR:N	2:l:39:LYS:HE3	2.27	0.50
2:m:188:THR:HG23	2:m:190:ASP:OD1	2.12	0.50
2:n:88:LEU:O	2:n:89:LEU:C	2.55	0.50
1:B:151:GLU:O	1:B:159:ILE:HG13	2.12	0.49
1:C:126:GLN:O	1:D:130:VAL:HG23	2.12	0.49
1:C:175:GLU:HA	1:C:178:GLU:HB2	1.92	0.49
1:E:68:ILE:N	1:E:68:ILE:CD1	2.75	0.49
1:E:122:GLN:HG3	1:F:84:ALA:C	2.35	0.49
1:E:161:TYR:CD1	1:E:164:THR:HG21	2.47	0.49
1:E:215:ILE:HG12	1:E:222:PHE:HA	1.93	0.49
2:a:101:PHE:CD1	2:a:102:LEU:N	2.73	0.49
2:b:25:ARG:HB2	2:b:180:ASN:N	2.26	0.49
2:b:104:GLN:O	2:b:105:ILE:HG13	2.12	0.49
2:b:152:ASP:O	2:b:155:MET:HG2	2.12	0.49
2:d:185:ALA:HA	2:d:193:LYS:O	2.11	0.49
2:f:62:VAL:O	2:f:66:ILE:HG13	2.11	0.49
1:H:57:SER:HG	1:H:59:LEU:HD13	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:186:THR:OG1	1:H:189:GLU:HB2	2.11	0.49
1:I:72:ASP:C	1:I:74:HIS:H	2.19	0.49
1:J:15:VAL:HG21	1:J:24:GLN:CG	2.42	0.49
1:L:18:PRO:HD2	1:L:19:GLU:OE1	2.12	0.49
1:L:108:ILE:CD1	1:L:113:LEU:HB2	2.42	0.49
1:L:239:LYS:HE3	1:L:240:LYS:NZ	2.27	0.49
1:M:124:TYR:CE1	1:M:130:VAL:HG21	2.47	0.49
2:h:184:LEU:CD2	2:h:185:ALA:N	2.75	0.49
2:h:197:ASP:O	2:h:198:GLU:C	2.55	0.49
2:i:188:THR:O	2:i:189:LYS:C	2.53	0.49
2:l:24:LYS:HB3	2:l:36:GLU:HA	1.94	0.49
2:m:143:ALA:O	2:m:146:VAL:HB	2.12	0.49
2:m:172:MET:HE3	2:m:179:GLY:CA	2.41	0.49
2:m:173:GLU:O	2:m:174:ARG:HG2	2.12	0.49
2:n:9:THR:OG1	2:n:136:THR:HG23	2.11	0.49
1:A:153:ASP:OD1	1:A:153:ASP:C	2.54	0.49
1:A:173:VAL:O	1:A:176:LEU:N	2.42	0.49
1:C:153:ASP:OD1	1:C:154:PRO:N	2.46	0.49
1:C:190:GLY:O	1:C:191:LEU:C	2.55	0.49
1:E:15:VAL:HG21	1:E:24:GLN:H	1.76	0.49
1:G:45:ASP:HA	1:G:218:LYS:HE2	1.94	0.49
2:a:12:LEU:CD2	2:a:19:ILE:HB	2.42	0.49
2:b:142:ILE:HB	2:b:171:ALA:HB2	1.94	0.49
2:c:10:VAL:HG12	2:c:135:ALA:HB2	1.94	0.49
2:c:18:VAL:HB	2:c:187:ILE:CD1	2.31	0.49
2:d:10:VAL:HG23	2:d:21:ALA:HB3	1.94	0.49
2:f:203:ILE:O	2:f:207:MET:HG3	2.12	0.49
2:g:137:GLY:O	2:g:140:SER:N	2.45	0.49
1:J:15:VAL:HG21	1:J:24:GLN:HG2	1.93	0.49
1:K:68:ILE:HG22	1:K:78:ALA:CB	2.42	0.49
1:M:26:GLU:CG	1:M:29:ARG:HE	2.24	0.49
1:M:166:ILE:HA	1:M:170:ARG:CG	2.42	0.49
1:N:30:GLU:HA	1:N:33:ARG:NH1	2.27	0.49
1:N:117:ILE:HD13	1:N:118:CYS:N	2.27	0.49
1:N:119:ASP:O	1:N:122:GLN:HB3	2.13	0.49
2:i:203:ILE:O	2:i:205:ASP:N	2.44	0.49
2:l:158:GLU:HA	2:l:161:ILE:HD11	1.93	0.49
2:m:43:ILE:HD11	2:m:47:ILE:HG22	1.95	0.49
2:m:147:LEU:O	2:m:149:ALA:N	2.45	0.49
1:A:15:VAL:HG21	1:A:24:GLN:CB	2.42	0.49
1:A:235:GLU:O	1:A:237:VAL:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:75:VAL:CG2	1:B:110:ILE:HG12	2.39	0.49
1:C:233:LEU:C	1:C:235:GLU:H	2.19	0.49
1:E:17:SER:HB3	1:E:22:LEU:HA	1.94	0.49
1:E:99:ILE:O	1:E:102:LEU:HB3	2.12	0.49
1:E:109:SER:HB3	1:E:112:MET:HG2	1.94	0.49
1:F:26:GLU:HG2	1:F:29:ARG:HE	1.75	0.49
1:F:69:PHE:HD2	1:F:90:ILE:HG21	1.78	0.49
1:F:116:LYS:O	1:F:119:ASP:HB2	2.13	0.49
1:F:142:ILE:HG13	1:F:220:ALA:HA	1.94	0.49
2:a:23:ASP:OD2	2:a:25:ARG:HB3	2.12	0.49
2:a:83:LEU:CD2	2:a:117:LYS:HE3	2.31	0.49
2:b:54:SER:CB	2:b:102:LEU:HD21	2.42	0.49
2:e:23:ASP:O	2:e:23:ASP:OD1	2.31	0.49
2:f:12:LEU:HD23	2:f:12:LEU:H	1.77	0.49
1:K:38:ALA:CB	1:K:51:VAL:HG13	2.39	0.49
1:K:123:ALA:C	1:K:125:THR:H	2.20	0.49
1:N:192:GLU:HA	1:N:195:ILE:HD12	1.94	0.49
2:h:142:ILE:CD1	2:h:171:ALA:HA	2.42	0.49
2:i:135:ALA:O	2:i:144:TYR:HE1	1.94	0.49
2:j:88:LEU:HD23	2:j:92:ILE:HD11	1.94	0.49
2:l:107:ILE:HG13	2:l:119:PHE:HB2	1.94	0.49
2:m:69:ALA:O	2:m:71:LEU:N	2.40	0.49
2:n:14:CYS:HB3	2:n:155:MET:O	2.11	0.49
1:B:22:LEU:O	1:B:23:TYR:O	2.30	0.49
1:B:239:LYS:C	1:B:240:LYS:HD3	2.36	0.49
1:E:72:ASP:HB3	1:E:74:HIS:CE1	2.47	0.49
1:E:109:SER:HB2	2:f:78:ARG:HH22	1.77	0.49
1:E:177:LEU:HA	1:E:180:GLU:OE1	2.12	0.49
1:F:194:ALA:O	1:F:198:LEU:HB2	2.11	0.49
2:a:58:ALA:O	2:a:59:GLN:C	2.54	0.49
2:a:170:SER:O	2:a:171:ALA:C	2.55	0.49
2:c:88:LEU:O	2:c:92:ILE:HG13	2.11	0.49
2:c:199:GLU:O	2:c:200:ILE:C	2.56	0.49
2:d:197:ASP:O	2:d:200:ILE:HG13	2.12	0.49
2:f:158:GLU:C	2:f:160:GLY:N	2.71	0.49
1:H:166:ILE:HG22	1:H:170:ARG:NH1	2.27	0.49
1:H:207:PRO:O	1:H:208:GLU:CG	2.51	0.49
1:H:236:LYS:O	1:H:237:VAL:HG23	2.13	0.49
1:I:89:LEU:HD11	1:I:133:PHE:CG	2.48	0.49
1:J:102:LEU:HD23	1:J:102:LEU:O	2.13	0.49
1:K:237:VAL:HA	1:K:240:LYS:HG2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:69:PHE:CD2	1:N:90:ILE:HG21	2.47	0.49
1:N:90:ILE:C	1:N:92:ARG:N	2.61	0.49
2:h:152:ASP:O	2:h:153:ARG:C	2.55	0.49
2:k:24:LYS:HE2	2:k:183:SER:OG	2.11	0.49
2:k:158:GLU:C	2:k:160:GLY:H	2.20	0.49
2:m:28:LEU:HG	2:m:28:LEU:O	2.12	0.49
1:A:94:ARG:NH1	2:a:75:ARG:HA	2.27	0.49
1:B:103:THR:O	1:B:104:TYR:CG	2.65	0.49
1:E:151:GLU:O	1:E:157:ALA:HB1	2.12	0.49
1:E:215:ILE:HG12	1:E:222:PHE:HB2	1.94	0.49
1:F:22:LEU:C	1:F:22:LEU:CD2	2.85	0.49
1:F:180:GLU:CD	1:F:180:GLU:N	2.60	0.49
1:G:182:ARG:NH1	1:G:184:ASP:OD2	2.45	0.49
2:a:50:THR:HG21	2:a:106:ILE:HD12	1.95	0.49
2:a:142:ILE:HD11	2:a:174:ARG:O	2.12	0.49
2:a:176:THR:HG1	2:a:177:PHE:HD2	1.57	0.49
2:c:40:LEU:HD21	2:c:185:ALA:HB3	1.94	0.49
2:d:72:TYR:C	2:d:72:TYR:CD2	2.89	0.49
2:d:78:ARG:HB3	2:d:112:LEU:CD1	2.40	0.49
2:d:102:LEU:HD22	2:d:103:THR:CA	2.42	0.49
2:e:49:MET:HE1	2:e:62:VAL:HA	1.94	0.49
2:f:102:LEU:O	2:f:103:THR:CB	2.60	0.49
2:f:136:THR:OG1	2:f:137:GLY:N	2.45	0.49
1:H:151:GLU:O	1:H:159:ILE:HG13	2.13	0.49
1:I:32:VAL:HG22	1:I:80:SER:O	2.11	0.49
1:I:217:VAL:CG1	1:I:218:LYS:HD3	2.41	0.49
1:K:95:LEU:C	1:K:97:ALA:N	2.70	0.49
1:M:129:GLY:O	1:M:130:VAL:HB	2.12	0.49
1:M:207:PRO:C	1:M:208:GLU:HG3	2.38	0.49
2:h:49:MET:HE3	2:h:62:VAL:HG22	1.93	0.49
2:i:143:ALA:O	2:i:146:VAL:HB	2.12	0.49
2:j:51:ILE:CG2	2:j:58:ALA:HB1	2.42	0.49
2:k:110:TYR:CE1	2:k:189:LYS:HE2	2.48	0.49
2:l:82:PRO:O	2:l:84:ALA:N	2.44	0.49
2:l:157:VAL:O	2:l:161:ILE:HG13	2.12	0.49
2:l:185:ALA:CB	2:l:193:LYS:O	2.61	0.49
2:n:161:ILE:HD12	2:n:162:LYS:HG2	1.95	0.49
1:A:99:ILE:HG22	1:A:100:TYR:N	2.27	0.49
1:A:170:ARG:O	1:A:171:PRO:C	2.56	0.49
1:B:90:ILE:C	1:B:92:ARG:N	2.66	0.49
1:B:143:ASP:OD2	1:B:148:ARG:NH2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:14:THR:CG2	1:D:15:VAL:HG22	2.42	0.49
1:E:39:ILE:HD11	1:E:173:VAL:HG21	1.95	0.49
1:F:186:THR:H	1:F:189:GLU:HB3	1.76	0.49
1:G:114:ALA:O	1:G:117:ILE:HD13	2.12	0.49
2:a:102:LEU:HA	2:a:123:PRO:CB	2.42	0.49
2:a:172:MET:HB3	2:a:179:GLY:HA2	1.94	0.49
2:c:110:TYR:CZ	2:c:189:LYS:HD3	2.47	0.49
2:d:44:ASP:OD1	2:d:79:ASN:HB3	2.12	0.49
2:d:187:ILE:CG2	2:d:192:VAL:HG13	2.42	0.49
2:e:51:ILE:O	2:e:51:ILE:HG13	2.13	0.49
2:f:137:GLY:O	2:f:138:SER:C	2.55	0.49
1:I:52:ASP:HB2	1:I:198:LEU:HD11	1.94	0.49
1:I:177:LEU:HA	1:I:180:GLU:OE1	2.13	0.49
1:I:234:ILE:O	1:I:237:VAL:HB	2.12	0.49
1:J:70:GLN:HA	1:J:76:ALA:HB2	1.94	0.49
1:K:79:THR:HG21	1:K:86:ALA:HB1	1.94	0.49
1:K:151:GLU:O	1:K:159:ILE:HG13	2.12	0.49
1:K:216:THR:C	1:K:218:LYS:H	2.20	0.49
1:L:102:LEU:HD23	1:L:102:LEU:C	2.38	0.49
1:L:155:SER:O	1:M:84:ALA:HB2	2.13	0.49
1:M:26:GLU:HG3	1:M:29:ARG:HE	1.76	0.49
2:h:110:TYR:CE2	2:h:189:LYS:HB3	2.47	0.49
2:i:189:LYS:H	2:i:189:LYS:CE	2.22	0.49
2:j:140:SER:H	2:j:141:PRO:HD2	1.76	0.49
2:l:18:VAL:HG11	2:l:118:LEU:HD13	1.94	0.49
2:l:79:ASN:O	2:l:80:ILE:C	2.55	0.49
2:m:89:LEU:CD2	2:m:92:ILE:HD12	2.34	0.49
2:m:203:ILE:O	2:m:205:ASP:N	2.46	0.49
2:n:54:SER:CB	2:n:102:LEU:HD11	2.43	0.49
1:A:160:GLU:O	1:B:61:LYS:HB3	2.12	0.49
1:B:124:TYR:CD1	1:B:133:PHE:CZ	3.01	0.49
1:B:166:ILE:HA	1:B:170:ARG:CG	2.43	0.49
1:C:42:ALA:HB3	1:C:162:LYS:O	2.13	0.49
1:C:207:PRO:O	1:C:227:VAL:HG13	2.12	0.49
1:D:32:VAL:HG12	1:D:33:ARG:N	2.26	0.49
1:D:55:ILE:HD13	1:D:62:ILE:HG12	1.94	0.49
1:D:166:ILE:HG22	1:D:170:ARG:CZ	2.43	0.49
1:F:70:GLN:HA	1:F:76:ALA:CB	2.42	0.49
1:F:182:ARG:O	1:F:184:ASP:N	2.46	0.49
1:F:222:PHE:CD1	1:F:222:PHE:C	2.91	0.49
1:G:55:ILE:HD11	1:G:62:ILE:HG23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:109:SER:HB2	2:a:78:ARG:HH22	1.77	0.49
1:G:161:TYR:CD1	1:G:164:THR:HG21	2.47	0.49
2:a:135:ALA:HB3	2:a:144:TYR:CE1	2.48	0.49
2:d:60:ALA:HA	2:d:63:ARG:CZ	2.42	0.49
2:d:199:GLU:O	2:d:202:LYS:HG2	2.12	0.49
2:e:16:ASP:O	2:e:189:LYS:NZ	2.45	0.49
2:e:60:ALA:HA	2:e:63:ARG:CZ	2.43	0.49
2:f:25:ARG:HB2	2:f:180:ASN:N	2.25	0.49
1:H:114:ALA:C	1:H:116:LYS:N	2.70	0.49
1:H:176:LEU:O	1:H:180:GLU:OE1	2.30	0.49
1:H:231:LYS:O	1:H:235:GLU:HG2	2.13	0.49
1:I:90:ILE:CD1	1:I:94:ARG:HD2	2.39	0.49
1:J:48:VAL:CG1	1:J:49:LEU:N	2.74	0.49
1:J:153:ASP:HB3	1:J:156:GLY:O	2.13	0.49
1:K:55:ILE:HD13	1:K:62:ILE:HG12	1.94	0.49
1:L:162:LYS:HB3	1:L:181:TYR:CE2	2.47	0.49
1:L:173:VAL:C	1:L:175:GLU:N	2.68	0.49
1:L:234:ILE:O	1:L:237:VAL:HB	2.13	0.49
1:N:32:VAL:O	1:N:35:GLY:N	2.45	0.49
1:N:101:ARG:O	1:N:101:ARG:HG2	2.12	0.49
2:h:94:HIS:O	2:h:97:ARG:HG2	2.13	0.49
2:i:184:LEU:HD23	2:i:185:ALA:N	2.27	0.49
2:j:58:ALA:O	2:j:59:GLN:C	2.56	0.49
2:k:24:LYS:HE2	2:k:183:SER:CB	2.42	0.49
2:l:137:GLY:N	2:l:140:SER:HB3	2.28	0.49
2:m:42:LYS:NZ	2:m:192:VAL:HB	2.28	0.49
1:A:158:LEU:HD13	1:B:66:GLU:HB2	1.95	0.49
1:C:119:ASP:OD1	1:D:87:ARG:NH2	2.38	0.49
1:F:32:VAL:HG11	1:F:170:ARG:HH21	1.76	0.49
1:F:182:ARG:NH1	1:F:184:ASP:OD2	2.46	0.49
2:a:16:ASP:C	2:a:189:LYS:HZ1	2.21	0.49
2:b:96:SER:CA	2:b:99:PHE:HB2	2.43	0.49
2:c:63:ARG:NH1	2:c:63:ARG:HB2	2.28	0.49
2:c:110:TYR:CE2	2:c:189:LYS:HD3	2.48	0.49
2:d:19:ILE:HG23	2:d:186:VAL:HG22	1.95	0.49
2:d:25:ARG:HH11	2:d:32:VAL:CG2	2.25	0.49
2:g:121:LEU:HD12	2:g:126:GLY:O	2.13	0.49
1:K:122:GLN:HG2	1:L:84:ALA:HB1	1.93	0.49
1:L:151:GLU:O	1:L:157:ALA:HB1	2.13	0.49
1:M:122:GLN:O	1:M:125:THR:HB	2.13	0.49
1:N:188:ASP:HA	1:N:191:LEU:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h:72:TYR:C	2:h:72:TYR:HD2	2.21	0.49
2:j:85:CYS:O	2:j:88:LEU:HB2	2.12	0.49
2:k:86:ALA:HB1	2:k:127:MET:CE	2.42	0.49
2:m:91:ASN:O	2:m:92:ILE:C	2.56	0.49
2:n:40:LEU:HD12	2:n:50:THR:HG22	1.94	0.49
2:n:102:LEU:C	2:n:102:LEU:CD2	2.80	0.49
2:n:187:ILE:CG2	2:n:192:VAL:HG13	2.39	0.49
1:A:114:ALA:O	1:A:116:LYS:N	2.44	0.49
1:B:216:THR:C	1:B:218:LYS:N	2.69	0.49
1:C:52:ASP:CB	1:C:198:LEU:HD21	2.37	0.49
1:D:55:ILE:CD1	1:D:62:ILE:HG23	2.43	0.49
1:D:119:ASP:OD1	1:E:87:ARG:NE	2.43	0.49
1:E:188:ASP:OD1	1:E:191:LEU:HD13	2.12	0.49
2:a:55:VAL:HG23	2:a:56:GLY:H	1.78	0.49
2:a:125:GLY:O	2:a:126:GLY:C	2.54	0.49
2:b:189:LYS:H	2:b:189:LYS:CE	2.18	0.49
2:c:50:THR:O	2:c:50:THR:OG1	2.31	0.49
2:f:28:LEU:HG	2:f:28:LEU:O	2.13	0.49
2:f:161:ILE:HD12	2:f:162:LYS:HG2	1.94	0.49
2:g:96:SER:CB	2:g:101:PHE:HB2	2.40	0.49
1:N:173:VAL:C	1:N:175:GLU:H	2.19	0.49
1:N:177:LEU:O	1:N:179:LYS:N	2.45	0.49
2:i:108:GLY:O	2:i:187:ILE:HG12	2.12	0.49
2:i:203:ILE:C	2:i:205:ASP:N	2.71	0.49
2:k:24:LYS:HA	2:k:37:ALA:O	2.11	0.49
2:k:120:SER:O	2:k:121:LEU:HD13	2.12	0.49
2:m:19:ILE:HG23	2:m:186:VAL:CG2	2.43	0.49
1:A:60:VAL:O	1:A:61:LYS:C	2.56	0.49
1:A:192:GLU:O	1:A:193:LEU:C	2.56	0.49
1:A:207:PRO:HB3	1:A:231:LYS:HB2	1.95	0.49
1:B:202:ASN:ND2	1:B:205:ILE:HG23	2.28	0.49
1:C:82:LEU:HD13	1:C:82:LEU:N	2.28	0.49
1:G:87:ARG:O	1:G:88:VAL:C	2.55	0.49
1:G:95:LEU:O	1:G:97:ALA:N	2.45	0.49
2:a:43:ILE:HG12	2:a:44:ASP:N	2.27	0.49
2:b:71:LEU:HD21	2:b:75:ARG:NH1	2.28	0.49
2:c:140:SER:N	2:c:141:PRO:CD	2.75	0.49
2:d:63:ARG:HB2	2:d:63:ARG:HH11	1.77	0.49
2:e:7:THR:HA	2:e:39:LYS:HZ2	1.74	0.49
2:e:96:SER:CA	2:e:99:PHE:HB2	2.43	0.49
2:e:100:PRO:O	2:f:97:ARG:CZ	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:122:ASP:HB2	2:f:123:PRO:CD	2.43	0.49
1:I:18:PRO:C	1:J:27:TYR:CD1	2.91	0.49
1:I:23:TYR:O	1:I:24:GLN:C	2.56	0.49
1:I:93:ALA:HB2	1:I:117:ILE:HG21	1.95	0.49
1:I:153:ASP:C	1:I:153:ASP:OD1	2.56	0.49
1:K:82:LEU:HD11	1:K:134:GLY:HA3	1.94	0.49
1:L:93:ALA:HB2	1:L:117:ILE:HG21	1.95	0.49
1:N:33:ARG:HB3	1:N:33:ARG:NH1	2.28	0.49
1:N:62:ILE:O	1:N:62:ILE:HG22	2.12	0.49
2:h:83:LEU:HB3	2:h:119:PHE:CZ	2.48	0.49
2:i:34:ASP:C	2:i:36:GLU:H	2.21	0.49
2:k:132:THR:HB	2:k:133:PHE:CD1	2.48	0.49
2:l:47:ILE:HD12	2:l:47:ILE:N	2.28	0.49
2:l:121:LEU:HD11	2:l:127:MET:CE	2.43	0.49
2:m:155:MET:HE1	2:m:163:LEU:HD22	1.94	0.49
2:n:172:MET:CE	2:n:179:GLY:HA2	2.43	0.49
1:C:93:ALA:C	1:C:95:LEU:N	2.68	0.48
1:C:121:LYS:NZ	1:C:137:LEU:HD12	2.27	0.48
1:C:228:GLU:OE1	1:C:231:LYS:HD3	2.13	0.48
1:D:195:ILE:HD13	1:D:233:LEU:HB3	1.94	0.48
1:E:20:GLY:HA2	1:F:31:ALA:CA	2.43	0.48
1:E:43:CYS:HB3	1:E:185:ILE:CD1	2.39	0.48
1:E:55:ILE:HG13	1:E:209:ASN:OD1	2.13	0.48
1:E:190:GLY:HA2	1:E:193:LEU:HD22	1.94	0.48
1:F:89:LEU:O	1:F:93:ALA:N	2.46	0.48
2:b:155:MET:O	2:b:156:SER:O	2.31	0.48
2:c:196:GLU:O	2:c:197:ASP:C	2.56	0.48
2:c:201:GLU:O	2:c:202:LYS:C	2.55	0.48
2:d:9:THR:HG22	2:d:22:THR:HA	1.95	0.48
2:d:10:VAL:HG12	2:d:135:ALA:HB2	1.94	0.48
2:d:69:ALA:C	2:d:71:LEU:N	2.62	0.48
2:d:102:LEU:O	2:d:103:THR:CB	2.56	0.48
2:d:176:THR:HG1	2:d:177:PHE:HD2	1.61	0.48
2:e:202:LYS:HG3	2:e:203:ILE:HG12	1.94	0.48
2:f:137:GLY:O	2:f:140:SER:N	2.46	0.48
2:g:135:ALA:HB3	2:g:144:TYR:HE1	1.77	0.48
2:g:148:GLU:O	2:g:148:GLU:HG3	2.13	0.48
1:H:90:ILE:HD12	1:H:94:ARG:HD2	1.94	0.48
1:H:122:GLN:OE1	1:H:122:GLN:C	2.55	0.48
1:I:82:LEU:H	1:I:82:LEU:HD22	1.78	0.48
1:K:112:MET:HE3	1:K:112:MET:CA	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:153:ASP:C	1:L:153:ASP:OD1	2.56	0.48
1:M:18:PRO:C	1:N:27:TYR:CD1	2.92	0.48
1:M:39:ILE:HD11	1:M:173:VAL:HG21	1.95	0.48
1:M:65:ILE:HG23	1:M:65:ILE:O	2.13	0.48
1:M:68:ILE:HD11	1:M:211:ASP:CB	2.43	0.48
1:M:175:GLU:O	1:M:178:GLU:HB3	2.13	0.48
1:M:180:GLU:CD	1:M:180:GLU:N	2.68	0.48
1:N:113:LEU:O	1:N:116:LYS:HB3	2.12	0.48
2:k:69:ALA:C	2:k:71:LEU:H	2.21	0.48
2:l:52:ALA:CB	2:l:104:GLN:HB2	2.36	0.48
2:m:82:PRO:C	2:m:84:ALA:H	2.21	0.48
2:n:18:VAL:HG23	2:n:116:ALA:HB1	1.94	0.48
1:A:26:GLU:HA	1:A:29:ARG:HG3	1.94	0.48
1:A:173:VAL:C	1:A:175:GLU:N	2.67	0.48
1:F:42:ALA:O	1:F:43:CYS:SG	2.71	0.48
1:F:93:ALA:HB2	1:F:117:ILE:HG21	1.95	0.48
1:G:22:LEU:O	1:G:23:TYR:O	2.31	0.48
1:G:32:VAL:HG11	1:G:170:ARG:NH2	2.28	0.48
1:G:186:THR:N	1:G:189:GLU:HB3	2.28	0.48
2:a:175:ASP:OD2	2:a:176:THR:N	2.46	0.48
2:g:23:ASP:O	2:g:23:ASP:CG	2.56	0.48
1:I:207:PRO:CB	1:I:231:LYS:HB2	2.43	0.48
1:I:243:GLU:O	1:I:243:GLU:CG	2.61	0.48
1:J:53:ARG:HB2	1:J:209:ASN:O	2.13	0.48
1:J:214:ILE:N	1:J:214:ILE:CD1	2.72	0.48
1:K:17:SER:HB3	1:K:22:LEU:HA	1.94	0.48
1:K:45:ASP:OD1	1:K:186:THR:HB	2.13	0.48
2:h:126:GLY:HA2	2:n:59:GLN:HG3	1.95	0.48
2:i:7:THR:HA	2:i:39:LYS:HZ1	1.76	0.48
2:j:175:ASP:OD2	2:j:175:ASP:C	2.56	0.48
1:A:226:PRO:HG2	1:A:229:GLU:CG	2.39	0.48
1:C:202:ASN:ND2	1:C:205:ILE:HG23	2.28	0.48
1:D:44:LYS:HG2	1:D:44:LYS:O	2.14	0.48
1:E:94:ARG:HH12	2:e:75:ARG:HA	1.77	0.48
1:F:231:LYS:HE2	1:F:235:GLU:OE1	2.14	0.48
1:G:162:LYS:O	1:G:163:ALA:HB2	2.13	0.48
1:H:18:PRO:O	1:I:27:TYR:CD1	2.66	0.48
1:K:166:ILE:HA	1:K:170:ARG:HD3	1.96	0.48
1:N:32:VAL:CG1	1:N:170:ARG:HH21	2.25	0.48
1:N:70:GLN:O	1:N:71:ILE:HD13	2.13	0.48
2:h:83:LEU:HB3	2:h:119:PHE:HZ	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:96:SER:HA	2:i:99:PHE:HB2	1.96	0.48
2:i:187:ILE:O	2:i:187:ILE:HD12	2.13	0.48
2:k:77:GLY:O	2:k:78:ARG:C	2.57	0.48
2:k:152:ASP:O	2:k:155:MET:HG2	2.13	0.48
2:n:25:ARG:HB2	2:n:180:ASN:CB	2.41	0.48
2:n:65:LEU:HD23	2:n:65:LEU:C	2.37	0.48
2:n:140:SER:OG	2:n:141:PRO:HD3	2.13	0.48
1:A:59:LEU:HD11	1:G:178:GLU:HA	1.95	0.48
1:B:126:GLN:HA	1:C:131:ARG:HG2	1.95	0.48
1:B:153:ASP:OD1	1:B:154:PRO:N	2.46	0.48
1:D:14:THR:O	1:D:15:VAL:CG1	2.54	0.48
1:D:148:ARG:HD2	1:D:160:GLU:OE1	2.13	0.48
1:E:101:ARG:HH11	1:E:107:GLU:HG2	1.78	0.48
1:E:228:GLU:OE1	1:E:231:LYS:HD3	2.13	0.48
1:F:38:ALA:O	1:F:165:ALA:HB1	2.13	0.48
2:a:7:THR:CG2	2:a:138:SER:H	2.19	0.48
2:a:142:ILE:CD1	2:a:174:ARG:O	2.61	0.48
2:c:142:ILE:HG21	2:c:171:ALA:HA	1.94	0.48
2:d:56:GLY:HA2	2:d:59:GLN:HB2	1.96	0.48
2:e:201:GLU:O	2:e:202:LYS:C	2.55	0.48
2:f:203:ILE:HG22	2:f:207:MET:SD	2.54	0.48
2:g:49:MET:HE1	2:g:62:VAL:HG22	1.93	0.48
1:I:57:SER:OG	1:I:59:LEU:HD13	2.13	0.48
1:J:115:LYS:O	1:J:119:ASP:OD2	2.30	0.48
1:N:98:GLN:HB3	2:n:67:ALA:HB1	1.95	0.48
1:N:239:LYS:O	1:N:242:ASN:OD1	2.32	0.48
2:h:69:ALA:HA	2:h:80:ILE:HG12	1.95	0.48
2:j:23:ASP:O	2:j:39:LYS:HD2	2.13	0.48
2:j:102:LEU:O	2:j:103:THR:HB	2.13	0.48
2:k:23:ASP:O	2:k:23:ASP:CG	2.56	0.48
2:k:157:VAL:HG23	2:k:158:GLU:N	2.29	0.48
2:k:164:ALA:O	2:k:165:LEU:C	2.53	0.48
2:l:118:LEU:HD12	2:l:118:LEU:HA	1.55	0.48
2:l:155:MET:HE2	2:l:159:GLU:O	2.13	0.48
2:l:187:ILE:CG2	2:l:192:VAL:HG13	2.38	0.48
2:m:79:ASN:O	2:m:80:ILE:C	2.56	0.48
2:m:151:TYR:HA	2:m:155:MET:SD	2.52	0.48
2:m:161:ILE:HD12	2:m:162:LYS:N	2.28	0.48
1:A:114:ALA:C	1:A:116:LYS:N	2.71	0.48
1:B:83:VAL:HA	1:B:86:ALA:HB2	1.96	0.48
1:B:89:LEU:HD21	1:B:121:LYS:CD	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:202:ASN:C	1:B:202:ASN:OD1	2.56	0.48
1:E:145:ASN:O	1:E:217:VAL:HG21	2.13	0.48
1:F:53:ARG:HD3	1:F:55:ILE:HD11	1.95	0.48
1:G:214:ILE:N	1:G:214:ILE:CD1	2.71	0.48
2:a:12:LEU:O	2:a:19:ILE:HD12	2.13	0.48
2:c:42:LYS:NZ	2:c:192:VAL:HB	2.29	0.48
2:c:97:ARG:C	2:c:99:PHE:N	2.71	0.48
2:c:202:LYS:HG3	2:c:203:ILE:HG12	1.95	0.48
2:f:16:ASP:HB3	2:f:189:LYS:NZ	2.28	0.48
2:f:96:SER:HA	2:f:99:PHE:HB2	1.94	0.48
2:g:122:ASP:C	2:g:122:ASP:OD2	2.56	0.48
2:g:170:SER:O	2:g:172:MET:N	2.47	0.48
1:J:72:ASP:OD2	1:J:98:GLN:NE2	2.46	0.48
1:J:114:ALA:O	1:J:116:LYS:N	2.46	0.48
1:K:203:GLU:O	1:K:204:ASP:HB2	2.14	0.48
1:L:71:ILE:O	2:l:74:MET:HE1	2.13	0.48
1:L:203:GLU:OE1	1:L:241:LEU:HD21	2.13	0.48
1:L:207:PRO:C	1:L:208:GLU:HG3	2.38	0.48
1:L:224:LYS:HB3	1:L:224:LYS:HE3	1.57	0.48
1:M:94:ARG:HH11	2:m:75:ARG:HG2	1.78	0.48
2:h:54:SER:HB2	2:h:102:LEU:HD21	1.95	0.48
2:h:102:LEU:CA	2:h:123:PRO:HB3	2.40	0.48
2:k:42:LYS:HE3	2:k:45:ASP:HA	1.94	0.48
2:k:172:MET:HE3	2:k:179:GLY:CA	2.44	0.48
2:n:105:ILE:HG22	2:n:121:LEU:HB2	1.95	0.48
1:A:129:GLY:O	1:A:130:VAL:HB	2.12	0.48
1:B:71:ILE:O	2:b:74:MET:HE1	2.14	0.48
1:C:150:PHE:CE1	1:C:160:GLU:CB	2.95	0.48
1:E:181:TYR:CG	1:E:182:ARG:N	2.81	0.48
1:E:203:GLU:OE1	1:E:241:LEU:HD21	2.14	0.48
1:G:55:ILE:H	1:G:55:ILE:HG13	1.51	0.48
2:a:12:LEU:HD21	2:a:19:ILE:HB	1.96	0.48
2:a:102:LEU:C	2:a:102:LEU:CD2	2.84	0.48
2:c:23:ASP:C	2:c:25:ARG:H	2.20	0.48
2:c:182:ILE:HG23	2:c:182:ILE:O	2.12	0.48
2:d:189:LYS:HE2	2:d:189:LYS:N	2.23	0.48
2:g:57:ASP:OD1	2:g:102:LEU:CD1	2.61	0.48
1:H:131:ARG:HH21	1:N:125:THR:CG2	2.27	0.48
1:I:48:VAL:HG22	1:I:214:ILE:CA	2.37	0.48
1:J:17:SER:HB3	1:J:21:ARG:C	2.37	0.48
1:J:48:VAL:CG2	1:J:214:ILE:HG23	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:173:VAL:C	1:J:176:LEU:H	2.21	0.48
1:L:82:LEU:HD13	1:L:82:LEU:N	2.25	0.48
1:N:68:ILE:HG22	1:N:78:ALA:CB	2.35	0.48
1:N:68:ILE:HD11	1:N:211:ASP:HB3	1.96	0.48
1:N:175:GLU:HA	1:N:178:GLU:HB2	1.95	0.48
2:h:54:SER:OG	2:h:57:ASP:HB2	2.14	0.48
2:k:24:LYS:HE2	2:k:183:SER:HB2	1.95	0.48
2:k:88:LEU:O	2:k:92:ILE:HG13	2.13	0.48
2:l:132:THR:HB	2:l:133:PHE:HD1	1.79	0.48
2:n:18:VAL:CG2	2:n:116:ALA:HB1	2.43	0.48
2:n:200:ILE:O	2:n:201:GLU:C	2.56	0.48
1:A:17:SER:HB3	1:A:21:ARG:C	2.38	0.48
1:A:68:ILE:HD11	1:A:211:ASP:OD2	2.14	0.48
1:B:49:LEU:HD23	1:B:78:ALA:CB	2.42	0.48
1:B:102:LEU:HD11	2:b:64:LEU:HA	1.95	0.48
1:B:158:LEU:HD12	1:C:83:VAL:CG1	2.43	0.48
1:C:57:SER:OG	1:C:59:LEU:HD13	2.14	0.48
1:C:72:ASP:CG	1:C:98:GLN:HE22	2.22	0.48
1:C:102:LEU:CD1	2:c:64:LEU:HA	2.44	0.48
1:C:153:ASP:C	1:C:155:SER:N	2.72	0.48
1:C:173:VAL:O	1:C:176:LEU:N	2.44	0.48
1:E:103:THR:HA	2:f:91:ASN:ND2	2.28	0.48
1:E:207:PRO:C	1:E:208:GLU:HG3	2.37	0.48
1:F:40:GLY:C	1:F:41:ILE:HG13	2.39	0.48
2:a:8:THR:HG23	2:a:8:THR:O	2.13	0.48
2:a:86:ALA:HB1	2:a:127:MET:CE	2.43	0.48
2:a:130:GLU:HG2	2:a:134:THR:HB	1.95	0.48
2:b:7:THR:HA	2:b:39:LYS:NZ	2.29	0.48
2:c:61:ILE:HG13	2:c:101:PHE:CZ	2.48	0.48
2:c:169:LYS:CE	2:c:204:LEU:HD21	2.43	0.48
2:f:18:VAL:CG2	2:f:116:ALA:HB1	2.43	0.48
2:f:69:ALA:O	2:f:71:LEU:N	2.36	0.48
2:f:122:ASP:HB2	2:f:123:PRO:HD3	1.94	0.48
1:I:15:VAL:HG21	1:I:24:GLN:CB	2.44	0.48
1:J:126:GLN:HG3	1:J:127:HIS:CE1	2.49	0.48
1:L:179:LYS:HB2	1:L:180:GLU:OE2	2.13	0.48
1:M:166:ILE:HA	1:M:170:ARG:HD3	1.94	0.48
1:N:144:LYS:O	1:N:145:ASN:HB2	2.14	0.48
2:h:69:ALA:C	2:h:71:LEU:N	2.65	0.48
2:h:162:LYS:HB3	2:h:207:MET:HE3	1.96	0.48
2:h:187:ILE:CG2	2:h:192:VAL:HG13	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:102:LEU:C	2:k:102:LEU:CD2	2.86	0.48
2:k:103:THR:H	2:k:123:PRO:CG	2.26	0.48
1:A:233:LEU:C	1:A:235:GLU:H	2.21	0.48
1:C:144:LYS:O	1:C:145:ASN:HB2	2.14	0.48
1:C:188:ASP:OD1	1:C:191:LEU:HD13	2.14	0.48
1:D:48:VAL:HG22	1:D:214:ILE:HG23	1.95	0.48
1:D:134:GLY:C	1:D:135:VAL:HG12	2.39	0.48
1:E:178:GLU:HA	1:F:59:LEU:HD21	1.95	0.48
1:E:198:LEU:HD23	1:E:198:LEU:C	2.39	0.48
1:G:203:GLU:O	1:G:204:ASP:HB2	2.14	0.48
2:a:7:THR:HG22	2:a:138:SER:N	2.22	0.48
2:b:9:THR:HG22	2:b:22:THR:HG22	1.94	0.48
2:b:10:VAL:HG12	2:b:135:ALA:HB2	1.96	0.48
2:b:23:ASP:O	2:b:23:ASP:CG	2.56	0.48
2:c:172:MET:HG2	2:c:179:GLY:HA2	1.96	0.48
2:c:195:PHE:HB3	2:c:200:ILE:HG12	1.95	0.48
2:d:122:ASP:HB2	2:d:123:PRO:HD2	1.96	0.48
2:e:10:VAL:HG12	2:e:135:ALA:HB2	1.96	0.48
2:e:104:GLN:O	2:e:105:ILE:HG13	2.14	0.48
2:g:102:LEU:O	2:g:102:LEU:HD13	2.13	0.48
1:H:74:HIS:O	1:H:75:VAL:HG23	2.13	0.48
1:J:14:THR:HG22	1:J:15:VAL:HG23	1.95	0.48
1:J:37:THR:HA	1:J:166:ILE:O	2.14	0.48
1:K:29:ARG:O	1:K:30:GLU:C	2.57	0.48
1:K:125:THR:HG22	1:L:131:ARG:NE	2.17	0.48
1:M:22:LEU:C	1:M:22:LEU:CD2	2.87	0.48
1:M:170:ARG:CB	1:M:171:PRO:HD3	2.44	0.48
2:h:19:ILE:HG22	2:h:20:LEU:N	2.28	0.48
2:h:161:ILE:O	2:h:165:LEU:HG	2.14	0.48
2:h:172:MET:HB3	2:h:179:GLY:HA2	1.96	0.48
2:i:69:ALA:C	2:i:71:LEU:N	2.72	0.48
2:j:12:LEU:HD23	2:j:12:LEU:H	1.78	0.48
2:j:23:ASP:OD2	2:j:179:GLY:N	2.42	0.48
2:j:182:ILE:HG12	2:j:183:SER:N	2.28	0.48
2:k:71:LEU:HD21	2:k:75:ARG:NH1	2.28	0.48
2:m:152:ASP:O	2:m:153:ARG:C	2.57	0.48
1:A:122:GLN:CD	1:A:122:GLN:C	2.82	0.48
1:A:208:GLU:C	1:A:210:VAL:H	2.22	0.48
1:D:117:ILE:HD13	1:D:117:ILE:H	1.78	0.48
1:E:130:VAL:HG13	1:E:130:VAL:O	2.13	0.48
1:E:223:LYS:HG3	1:E:224:LYS:H	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:224:LYS:HE3	1:G:224:LYS:HB3	1.50	0.48
2:a:43:ILE:HD13	2:a:43:ILE:N	2.11	0.48
2:b:34:ASP:OD2	2:c:128:ASN:HB3	2.14	0.48
2:b:88:LEU:HB3	2:b:92:ILE:HD11	1.94	0.48
2:c:25:ARG:HE	2:c:32:VAL:HG13	1.78	0.48
2:c:175:ASP:C	2:c:175:ASP:OD2	2.55	0.48
2:d:23:ASP:O	2:d:39:LYS:HD2	2.14	0.48
2:d:142:ILE:O	2:d:143:ALA:C	2.56	0.48
2:e:121:LEU:HD11	2:e:127:MET:HE3	1.96	0.48
2:g:24:LYS:HB3	2:g:36:GLU:HA	1.96	0.48
2:g:61:ILE:HG13	2:g:101:PHE:CZ	2.48	0.48
1:H:101:ARG:O	1:H:101:ARG:HG2	2.13	0.48
1:J:45:ASP:OD2	1:J:45:ASP:N	2.46	0.48
1:J:130:VAL:HG13	1:J:130:VAL:O	2.14	0.48
1:J:173:VAL:HA	1:J:176:LEU:CB	2.44	0.48
1:L:62:ILE:O	1:L:62:ILE:HG22	2.14	0.48
1:M:90:ILE:C	1:M:92:ARG:N	2.59	0.48
1:M:106:GLU:OE2	2:n:81:PRO:HG2	2.13	0.48
1:N:182:ARG:HB2	1:N:185:ILE:HG23	1.96	0.48
2:k:169:LYS:HZ2	2:k:204:LEU:HD21	1.79	0.48
2:m:111:ASP:O	2:m:113:LEU:N	2.46	0.48
2:m:201:GLU:O	2:m:202:LYS:C	2.55	0.48
1:A:86:ALA:O	1:A:87:ARG:C	2.56	0.48
1:A:92:ARG:HG2	1:A:92:ARG:NH2	2.29	0.48
1:A:122:GLN:HG2	1:B:84:ALA:HB1	1.95	0.48
1:B:51:VAL:HG11	1:B:67:LYS:CG	2.44	0.48
1:E:42:ALA:O	1:E:43:CYS:HB3	2.13	0.48
1:E:167:GLY:O	1:E:170:ARG:HG3	2.14	0.48
1:E:235:GLU:O	1:E:237:VAL:N	2.46	0.48
2:a:50:THR:HG23	2:a:106:ILE:HB	1.95	0.48
2:b:171:ALA:O	2:b:175:ASP:HB3	2.14	0.48
2:c:43:ILE:HD11	2:c:47:ILE:CG2	2.43	0.48
2:c:88:LEU:C	2:c:92:ILE:HG13	2.38	0.48
2:d:9:THR:CG2	2:d:22:THR:HG22	2.43	0.48
2:e:24:LYS:HB3	2:e:36:GLU:HA	1.96	0.48
1:H:122:GLN:C	1:H:122:GLN:CD	2.82	0.48
1:H:144:LYS:C	1:H:146:GLU:H	2.21	0.48
1:J:103:THR:O	1:J:104:TYR:CD2	2.67	0.48
1:M:48:VAL:HG22	1:M:214:ILE:HG23	1.94	0.48
1:N:131:ARG:O	1:N:131:ARG:HG3	2.14	0.48
2:i:28:LEU:O	2:i:28:LEU:HG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:187:ILE:HG22	2:k:192:VAL:CG2	2.37	0.48
1:A:144:LYS:C	1:A:146:GLU:H	2.22	0.47
1:A:188:ASP:HA	1:A:191:LEU:HB2	1.96	0.47
1:C:126:GLN:HB3	1:D:131:ARG:NH2	2.29	0.47
1:C:202:ASN:HB3	1:C:205:ILE:HG12	1.96	0.47
1:D:61:LYS:HE2	1:D:63:ARG:CG	2.44	0.47
1:D:117:ILE:HA	1:D:120:ILE:CD1	2.38	0.47
1:D:161:TYR:HB3	1:D:163:ALA:H	1.79	0.47
1:D:170:ARG:CB	1:D:171:PRO:HD3	2.33	0.47
1:D:173:VAL:C	1:D:176:LEU:H	2.22	0.47
1:D:182:ARG:NH1	1:D:184:ASP:OD2	2.47	0.47
1:D:199:THR:O	1:D:200:LYS:C	2.56	0.47
1:E:93:ALA:C	1:E:95:LEU:H	2.20	0.47
1:E:112:MET:HA	1:E:112:MET:CE	2.44	0.47
1:G:92:ARG:HG2	1:G:92:ARG:HH21	1.79	0.47
2:e:204:LEU:HD12	2:e:207:MET:SD	2.54	0.47
2:f:165:LEU:HD21	2:f:184:LEU:HD12	1.96	0.47
2:f:173:GLU:HG2	2:f:173:GLU:O	2.13	0.47
2:g:89:LEU:HA	2:g:89:LEU:HD23	1.64	0.47
1:H:153:ASP:OD1	1:H:154:PRO:N	2.47	0.47
1:I:100:TYR:C	1:I:100:TYR:CD2	2.92	0.47
1:I:243:GLU:O	1:I:243:GLU:HG3	2.14	0.47
1:K:36:THR:CG2	1:K:67:LYS:HE2	2.43	0.47
1:K:131:ARG:HG3	1:K:131:ARG:HH11	1.78	0.47
1:K:197:ALA:O	1:K:198:LEU:C	2.55	0.47
1:L:14:THR:CG2	1:L:15:VAL:N	2.75	0.47
1:L:162:LYS:O	1:L:163:ALA:HB2	2.14	0.47
1:L:239:LYS:HE3	1:L:240:LYS:CE	2.43	0.47
1:M:90:ILE:O	1:M:92:ARG:N	2.47	0.47
1:M:162:LYS:O	1:M:163:ALA:HB2	2.13	0.47
1:N:117:ILE:HA	1:N:120:ILE:HD12	1.94	0.47
1:N:190:GLY:O	1:N:191:LEU:C	2.56	0.47
2:h:62:VAL:O	2:h:65:LEU:N	2.46	0.47
2:h:88:LEU:C	2:h:92:ILE:HG13	2.39	0.47
2:i:40:LEU:HD12	2:i:49:MET:O	2.14	0.47
2:j:72:TYR:C	2:j:72:TYR:CD2	2.92	0.47
2:k:83:LEU:HB3	2:k:119:PHE:CZ	2.48	0.47
2:l:14:CYS:HB3	2:l:155:MET:O	2.14	0.47
2:l:22:THR:CB	2:l:39:LYS:HB2	2.42	0.47
2:l:86:ALA:O	2:l:89:LEU:N	2.47	0.47
2:m:18:VAL:O	2:m:186:VAL:HG13	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:m:121:LEU:HD12	2:m:126:GLY:O	2.14	0.47
2:n:81:PRO:O	2:n:84:ALA:HB3	2.14	0.47
2:n:198:GLU:O	2:n:201:GLU:HB3	2.13	0.47
2:n:199:GLU:H	2:n:199:GLU:HG3	1.52	0.47
1:A:83:VAL:HA	1:A:86:ALA:HB2	1.96	0.47
1:A:177:LEU:O	1:A:179:LYS:N	2.47	0.47
1:B:175:GLU:HA	1:B:178:GLU:HB2	1.95	0.47
1:B:184:ASP:O	1:B:185:ILE:C	2.57	0.47
1:C:148:ARG:HD2	1:C:160:GLU:CD	2.38	0.47
1:D:93:ALA:C	1:D:95:LEU:N	2.71	0.47
1:D:156:GLY:HA3	1:E:84:ALA:HA	1.96	0.47
1:D:190:GLY:O	1:D:191:LEU:C	2.55	0.47
1:E:15:VAL:HB	1:E:23:TYR:HB2	1.95	0.47
1:E:131:ARG:HG3	1:E:131:ARG:O	2.13	0.47
1:F:32:VAL:C	1:F:34:ARG:H	2.21	0.47
1:F:184:ASP:O	1:F:185:ILE:C	2.57	0.47
1:G:39:ILE:CD1	1:G:173:VAL:HG21	2.42	0.47
1:G:99:ILE:HG22	1:G:100:TYR:N	2.29	0.47
1:G:114:ALA:C	1:G:116:LYS:N	2.70	0.47
1:G:173:VAL:C	1:G:175:GLU:N	2.71	0.47
1:G:227:VAL:O	1:G:228:GLU:CB	2.57	0.47
2:a:35:LYS:HA	2:a:180:ASN:ND2	2.28	0.47
2:a:172:MET:HG2	2:a:179:GLY:HA2	1.95	0.47
2:c:51:ILE:CG2	2:c:58:ALA:HB1	2.44	0.47
2:c:65:LEU:O	2:c:66:ILE:C	2.57	0.47
2:e:45:ASP:C	2:e:46:TYR:HD2	2.22	0.47
1:I:137:LEU:N	1:I:152:THR:OG1	2.47	0.47
1:I:202:ASN:C	1:I:202:ASN:OD1	2.57	0.47
1:I:242:ASN:C	1:I:244:GLU:N	2.71	0.47
1:K:48:VAL:HG21	1:K:214:ILE:HG23	1.94	0.47
1:L:202:ASN:HD22	1:L:205:ILE:HG23	1.78	0.47
1:N:150:PHE:CE1	1:N:160:GLU:CB	2.86	0.47
1:N:226:PRO:HG2	1:N:229:GLU:CG	2.43	0.47
2:h:58:ALA:O	2:h:62:VAL:HG23	2.14	0.47
2:h:203:ILE:O	2:h:207:MET:HG3	2.14	0.47
2:k:18:VAL:CG2	2:k:116:ALA:HB1	2.44	0.47
2:m:65:LEU:HD23	2:m:65:LEU:C	2.39	0.47
2:m:83:LEU:HD22	2:m:117:LYS:HE3	1.95	0.47
1:A:62:ILE:O	1:A:65:ILE:HG22	2.14	0.47
1:D:231:LYS:HA	1:D:234:ILE:HG22	1.96	0.47
1:E:16:PHE:CE1	1:F:28:ALA:HA	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:23:TYR:O	1:E:24:GLN:C	2.57	0.47
1:F:41:ILE:HG23	1:F:163:ALA:CB	2.40	0.47
1:G:188:ASP:OD1	1:G:191:LEU:HD13	2.14	0.47
2:b:196:GLU:O	2:b:197:ASP:C	2.57	0.47
2:c:54:SER:HB2	2:c:102:LEU:HD11	1.95	0.47
2:d:86:ALA:C	2:d:88:LEU:N	2.72	0.47
2:f:172:MET:CB	2:f:179:GLY:HA2	2.44	0.47
1:H:26:GLU:CG	1:H:29:ARG:HE	2.10	0.47
1:H:160:GLU:OE1	1:I:61:LYS:HD3	2.13	0.47
1:J:177:LEU:O	1:J:179:LYS:N	2.47	0.47
1:K:82:LEU:H	1:K:82:LEU:CD2	2.14	0.47
1:K:210:VAL:HG21	1:K:230:ILE:HG23	1.97	0.47
1:L:191:LEU:O	1:L:195:ILE:HG13	2.14	0.47
1:M:85:ASP:HA	1:M:88:VAL:CG2	2.44	0.47
1:M:114:ALA:C	1:M:116:LYS:H	2.22	0.47
1:M:223:LYS:HG3	1:M:224:LYS:H	1.78	0.47
1:N:61:LYS:O	1:N:63:ARG:N	2.47	0.47
2:h:16:ASP:CB	2:h:189:LYS:HZ1	2.28	0.47
2:h:49:MET:CB	2:h:107:ILE:HG22	2.44	0.47
2:h:63:ARG:C	2:h:65:LEU:N	2.70	0.47
2:k:155:MET:O	2:k:156:SER:C	2.56	0.47
2:l:152:ASP:O	2:l:155:MET:HG2	2.14	0.47
2:l:202:LYS:HG3	2:l:203:ILE:HG12	1.95	0.47
2:m:9:THR:HG22	2:m:22:THR:HA	1.95	0.47
2:n:23:ASP:C	2:n:25:ARG:H	2.19	0.47
1:C:114:ALA:C	1:C:116:LYS:N	2.72	0.47
1:C:142:ILE:HG23	1:C:217:VAL:HG23	1.95	0.47
1:C:184:ASP:O	1:C:185:ILE:C	2.57	0.47
1:D:26:GLU:O	1:D:29:ARG:HB2	2.15	0.47
1:D:214:ILE:HD12	1:D:214:ILE:H	1.78	0.47
1:E:42:ALA:HB3	1:E:162:LYS:O	2.14	0.47
1:F:158:LEU:HD12	1:G:83:VAL:HG11	1.95	0.47
1:F:170:ARG:CB	1:F:171:PRO:HD3	2.44	0.47
2:a:172:MET:CG	2:a:179:GLY:HA2	2.44	0.47
2:b:158:GLU:C	2:b:160:GLY:N	2.71	0.47
2:c:44:ASP:OD1	2:c:79:ASN:HB3	2.13	0.47
2:d:121:LEU:HD12	2:d:126:GLY:O	2.14	0.47
2:e:28:LEU:O	2:e:28:LEU:HG	2.14	0.47
2:e:86:ALA:C	2:e:127:MET:HE1	2.39	0.47
2:g:43:ILE:CD1	2:g:43:ILE:N	2.68	0.47
2:g:45:ASP:O	2:g:192:VAL:HG23	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:g:141:PRO:O	2:g:142:ILE:C	2.55	0.47
1:H:45:ASP:OD2	1:H:45:ASP:N	2.47	0.47
1:I:188:ASP:HA	1:I:191:LEU:HB2	1.97	0.47
1:J:82:LEU:H	1:J:82:LEU:HD22	1.78	0.47
1:J:86:ALA:O	1:J:87:ARG:C	2.57	0.47
1:K:70:GLN:HA	1:K:76:ALA:HB2	1.96	0.47
1:K:148:ARG:HD2	1:K:160:GLU:CD	2.39	0.47
1:M:191:LEU:O	1:M:195:ILE:HG13	2.14	0.47
1:N:161:TYR:HB3	1:N:163:ALA:H	1.79	0.47
1:N:228:GLU:OE1	1:N:231:LYS:HD3	2.14	0.47
2:h:8:THR:HG22	2:h:23:ASP:CG	2.40	0.47
2:h:151:TYR:HA	2:h:155:MET:SD	2.54	0.47
2:j:43:ILE:HD13	2:j:47:ILE:O	2.13	0.47
2:m:51:ILE:CG2	2:m:58:ALA:HB1	2.44	0.47
2:n:49:MET:CE	2:n:62:VAL:HG22	2.43	0.47
1:F:95:LEU:HD12	2:f:71:LEU:HD11	1.97	0.47
1:F:109:SER:O	1:F:110:ILE:C	2.56	0.47
1:G:151:GLU:O	1:G:157:ALA:HB1	2.15	0.47
2:f:198:GLU:O	2:f:201:GLU:HB3	2.15	0.47
1:J:62:ILE:O	1:J:62:ILE:CG2	2.62	0.47
1:J:114:ALA:O	1:J:117:ILE:HD13	2.15	0.47
1:L:95:LEU:C	1:L:97:ALA:N	2.70	0.47
2:k:74:MET:C	2:k:76:THR:N	2.70	0.47
2:l:89:LEU:CA	2:l:92:ILE:HD12	2.43	0.47
1:A:159:ILE:HG22	1:B:60:VAL:HG11	1.95	0.47
1:B:68:ILE:HD11	1:B:211:ASP:HB3	1.97	0.47
1:C:125:THR:HG22	1:D:131:ARG:HH21	1.78	0.47
1:D:19:GLU:OE1	1:D:19:GLU:N	2.47	0.47
1:D:43:CYS:SG	1:D:46:GLY:O	2.71	0.47
1:D:69:PHE:HD2	1:D:90:ILE:HG21	1.79	0.47
1:F:51:VAL:HG11	1:F:67:LYS:CG	2.43	0.47
1:G:236:LYS:HA	1:G:239:LYS:HE2	1.97	0.47
2:b:43:ILE:HG22	2:b:66:ILE:HG12	1.97	0.47
2:b:132:THR:HB	2:b:133:PHE:HD1	1.79	0.47
2:d:169:LYS:HD2	2:d:204:LEU:HD11	1.96	0.47
2:f:20:LEU:O	2:f:184:LEU:HD23	2.15	0.47
2:f:111:ASP:O	2:f:112:LEU:C	2.57	0.47
2:f:202:LYS:HG3	2:f:203:ILE:H	1.75	0.47
2:g:154:ASP:OD2	2:g:154:ASP:N	2.46	0.47
1:H:48:VAL:HG13	1:H:213:CYS:O	2.13	0.47
1:H:103:THR:O	2:i:88:LEU:CD1	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:175:GLU:HA	1:I:178:GLU:HB2	1.95	0.47
1:M:102:LEU:HD23	1:M:103:THR:HG23	1.96	0.47
1:M:161:TYR:CD1	1:M:164:THR:HG21	2.50	0.47
1:N:25:VAL:CG2	1:N:26:GLU:N	2.78	0.47
1:N:61:LYS:HG2	1:N:63:ARG:HG2	1.97	0.47
1:N:153:ASP:OD1	1:N:154:PRO:N	2.48	0.47
2:k:199:GLU:O	2:k:200:ILE:C	2.58	0.47
2:m:96:SER:HA	2:m:99:PHE:HB2	1.97	0.47
1:A:26:GLU:HG2	1:A:29:ARG:HE	1.78	0.47
1:A:139:ILE:O	1:A:149:LEU:HD12	2.15	0.47
1:B:89:LEU:HD21	1:B:121:LYS:HD3	1.97	0.47
1:B:218:LYS:O	1:B:219:ASP:CB	2.63	0.47
1:C:103:THR:O	1:C:104:TYR:CD2	2.67	0.47
1:C:114:ALA:C	1:C:116:LYS:H	2.23	0.47
1:D:121:LYS:HG3	1:D:133:PHE:CD1	2.41	0.47
1:D:202:ASN:C	1:D:202:ASN:OD1	2.57	0.47
1:E:32:VAL:HG22	1:E:80:SER:O	2.15	0.47
1:E:114:ALA:C	1:E:116:LYS:H	2.23	0.47
1:F:218:LYS:O	1:F:219:ASP:HB3	2.13	0.47
1:G:185:ILE:HD12	1:G:186:THR:O	2.14	0.47
2:a:102:LEU:HD22	2:a:103:THR:CA	2.44	0.47
2:a:187:ILE:CG2	2:a:192:VAL:HG13	2.39	0.47
2:b:22:THR:HG21	2:b:40:LEU:HB2	1.97	0.47
2:b:102:LEU:HD22	2:b:103:THR:CA	2.44	0.47
2:c:16:ASP:OD1	2:c:16:ASP:N	2.44	0.47
2:e:49:MET:HE1	2:e:62:VAL:HG22	1.95	0.47
2:e:133:PHE:HD2	2:e:147:LEU:CD1	2.28	0.47
2:g:147:LEU:O	2:g:149:ALA:N	2.48	0.47
1:I:98:GLN:O	1:I:99:ILE:C	2.57	0.47
1:J:121:LYS:HZ1	1:J:152:THR:CB	2.24	0.47
1:K:164:THR:OG1	1:K:165:ALA:N	2.47	0.47
1:L:239:LYS:CE	1:L:240:LYS:HZ1	2.28	0.47
1:M:153:ASP:OD1	1:M:153:ASP:C	2.57	0.47
1:M:166:ILE:CA	1:M:170:ARG:HG2	2.44	0.47
1:M:231:LYS:C	1:M:233:LEU:H	2.22	0.47
1:N:32:VAL:HG22	1:N:80:SER:O	2.15	0.47
2:h:83:LEU:HD22	2:h:117:LYS:CE	2.42	0.47
2:j:9:THR:CG2	2:j:22:THR:HG22	2.36	0.47
2:j:12:LEU:N	2:j:12:LEU:CD2	2.78	0.47
2:j:197:ASP:O	2:j:198:GLU:C	2.58	0.47
2:k:60:ALA:O	2:k:62:VAL:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:169:LYS:NZ	2:k:204:LEU:HD11	2.29	0.47
2:l:12:LEU:N	2:l:12:LEU:HD23	2.30	0.47
2:l:103:THR:H	2:l:123:PRO:CG	2.27	0.47
2:l:151:TYR:HA	2:l:155:MET:SD	2.55	0.47
2:m:7:THR:N	2:m:23:ASP:OD1	2.47	0.47
2:n:42:LYS:NZ	2:n:192:VAL:HB	2.30	0.47
2:n:137:GLY:N	2:n:140:SER:HB3	2.29	0.47
2:n:140:SER:N	2:n:141:PRO:CD	2.77	0.47
2:n:144:TYR:O	2:n:145:GLY:C	2.57	0.47
2:n:151:TYR:C	2:n:151:TYR:CD2	2.92	0.47
1:A:101:ARG:HH11	1:A:107:GLU:HG2	1.79	0.47
1:C:68:ILE:HD11	1:C:211:ASP:CB	2.44	0.47
1:C:168:SER:OG	1:C:169:GLY:N	2.46	0.47
1:E:43:CYS:SG	1:E:46:GLY:O	2.72	0.47
1:E:171:PRO:HB3	1:E:175:GLU:OE1	2.15	0.47
1:F:51:VAL:HG11	1:F:67:LYS:HG2	1.97	0.47
1:F:61:LYS:HE2	1:F:63:ARG:CG	2.44	0.47
1:F:100:TYR:CE2	1:F:108:ILE:HA	2.49	0.47
1:F:198:LEU:HD22	1:F:205:ILE:HD13	1.96	0.47
1:G:93:ALA:C	1:G:95:LEU:N	2.71	0.47
2:a:7:THR:HB	2:a:138:SER:HB3	1.96	0.47
2:a:97:ARG:C	2:a:99:PHE:H	2.23	0.47
2:a:102:LEU:O	2:a:103:THR:CB	2.60	0.47
2:a:185:ALA:HB2	2:a:194:ILE:HA	1.97	0.47
2:f:63:ARG:NH1	2:g:91:ASN:OD1	2.48	0.47
2:f:140:SER:O	2:f:143:ALA:N	2.48	0.47
2:f:158:GLU:C	2:f:160:GLY:H	2.23	0.47
1:I:45:ASP:OD1	1:I:186:THR:HB	2.14	0.47
1:I:61:LYS:HG2	1:I:63:ARG:HG2	1.97	0.47
1:I:170:ARG:CB	1:I:171:PRO:CD	2.90	0.47
1:J:123:ALA:C	1:J:125:THR:H	2.21	0.47
1:L:68:ILE:HG22	1:L:78:ALA:CB	2.42	0.47
1:N:239:LYS:HG3	1:N:240:LYS:CE	2.44	0.47
2:i:169:LYS:HE3	2:i:204:LEU:HD21	1.96	0.47
2:i:185:ALA:HA	2:i:193:LYS:O	2.15	0.47
2:j:119:PHE:HE1	2:j:129:GLU:HB2	1.79	0.47
2:m:195:PHE:HB3	2:m:200:ILE:HG12	1.96	0.47
2:n:43:ILE:HD11	2:n:47:ILE:CG2	2.45	0.47
1:A:25:VAL:HG23	1:A:26:GLU:N	2.30	0.47
1:A:41:ILE:HG23	1:A:163:ALA:CB	2.45	0.47
1:A:68:ILE:CD1	1:A:211:ASP:HB3	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:16:PHE:CZ	1:D:28:ALA:HA	2.49	0.47
1:D:71:ILE:HD13	1:D:94:ARG:HG3	1.97	0.47
1:D:122:GLN:HG3	1:E:84:ALA:O	2.15	0.47
1:D:150:PHE:HE1	1:D:160:GLU:HB2	1.79	0.47
1:D:199:THR:HA	1:D:205:ILE:HD11	1.96	0.47
1:E:153:ASP:C	1:E:153:ASP:OD1	2.57	0.47
1:E:153:ASP:C	1:E:155:SER:N	2.69	0.47
1:F:95:LEU:C	1:F:97:ALA:N	2.72	0.47
1:G:61:LYS:HE2	1:G:63:ARG:HG2	1.97	0.47
1:G:114:ALA:O	1:G:116:LYS:N	2.48	0.47
1:G:117:ILE:HA	1:G:120:ILE:CD1	2.37	0.47
1:G:231:LYS:HA	1:G:234:ILE:CG2	2.44	0.47
2:a:198:GLU:HG3	2:a:199:GLU:N	2.29	0.47
2:c:96:SER:O	2:c:99:PHE:O	2.33	0.47
2:e:185:ALA:HA	2:e:193:LYS:O	2.15	0.47
2:g:14:CYS:SG	2:g:160:GLY:HA3	2.55	0.47
2:g:25:ARG:HE	2:g:32:VAL:HG13	1.79	0.47
1:H:143:ASP:O	1:H:146:GLU:HB3	2.15	0.47
1:J:114:ALA:C	1:J:116:LYS:H	2.21	0.47
1:L:61:LYS:HE2	1:L:63:ARG:HG2	1.97	0.47
2:h:35:LYS:O	2:h:35:LYS:HG2	2.13	0.47
2:h:43:ILE:HD13	2:h:44:ASP:H	1.80	0.47
2:j:54:SER:CB	2:j:102:LEU:HD21	2.45	0.47
2:l:85:CYS:O	2:l:88:LEU:CB	2.63	0.47
1:A:131:ARG:O	1:A:132:PRO:O	2.33	0.47
1:A:170:ARG:CB	1:A:171:PRO:HD3	2.45	0.47
1:B:153:ASP:OD1	1:B:153:ASP:C	2.58	0.47
1:D:62:ILE:O	1:D:62:ILE:HG22	2.14	0.47
1:E:67:LYS:HD2	1:E:67:LYS:HA	1.63	0.47
1:F:175:GLU:HA	1:F:178:GLU:HB2	1.96	0.47
2:b:137:GLY:O	2:b:139:GLY:N	2.48	0.47
2:b:150:GLY:O	2:b:163:LEU:HD13	2.15	0.47
2:c:65:LEU:HD23	2:c:65:LEU:C	2.39	0.47
2:c:94:HIS:CD2	2:c:97:ARG:HD3	2.49	0.47
2:c:152:ASP:O	2:c:153:ARG:C	2.58	0.47
2:d:7:THR:HG22	2:d:138:SER:H	1.79	0.47
2:d:18:VAL:CG2	2:d:116:ALA:HB1	2.45	0.47
2:e:89:LEU:HA	2:e:89:LEU:HD23	1.55	0.47
2:f:59:GLN:HA	2:f:59:GLN:HE21	1.80	0.47
2:f:121:LEU:CD1	2:f:127:MET:HB2	2.45	0.47
1:I:45:ASP:CA	1:I:218:LYS:HE2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:124:TYR:CE1	1:I:133:PHE:CE2	3.03	0.47
1:I:126:GLN:HB3	1:J:131:ARG:CZ	2.44	0.47
1:J:114:ALA:C	1:J:116:LYS:N	2.71	0.47
1:K:26:GLU:O	1:K:29:ARG:HB2	2.14	0.47
1:L:222:PHE:C	1:L:222:PHE:CD1	2.92	0.47
1:M:152:THR:HA	1:M:157:ALA:CB	2.45	0.47
1:M:173:VAL:O	1:M:175:GLU:N	2.48	0.47
1:N:52:ASP:HB2	1:N:198:LEU:CD1	2.44	0.47
1:N:208:GLU:HB3	1:N:227:VAL:HG13	1.97	0.47
2:i:65:LEU:C	2:i:65:LEU:CD2	2.80	0.47
2:j:42:LYS:HD2	2:j:192:VAL:HG11	1.96	0.47
2:j:155:MET:HE2	2:j:159:GLU:C	2.39	0.47
2:k:28:LEU:HG	2:k:28:LEU:O	2.14	0.47
2:l:20:LEU:O	2:l:184:LEU:HD23	2.15	0.47
2:l:122:ASP:OD2	2:l:126:GLY:N	2.48	0.47
2:l:197:ASP:O	2:l:200:ILE:HG13	2.15	0.47
2:n:72:TYR:C	2:n:72:TYR:HD2	2.21	0.47
2:n:136:THR:HG23	2:n:136:THR:O	2.14	0.47
1:A:186:THR:H	1:A:189:GLU:HB3	1.79	0.46
1:C:40:GLY:CA	1:C:49:LEU:HD12	2.45	0.46
1:C:68:ILE:HD11	1:C:211:ASP:CG	2.40	0.46
1:D:171:PRO:O	1:D:175:GLU:HB2	2.16	0.46
1:E:102:LEU:C	1:E:102:LEU:CD2	2.85	0.46
1:E:181:TYR:CD2	1:E:182:ARG:N	2.83	0.46
1:F:122:GLN:CG	1:G:84:ALA:HB1	2.45	0.46
2:a:8:THR:HA	2:a:137:GLY:HA3	1.97	0.46
2:a:110:TYR:HE1	2:a:189:LYS:HZ3	1.62	0.46
2:c:66:ILE:O	2:c:69:ALA:HB3	2.15	0.46
2:c:105:ILE:CG2	2:c:106:ILE:N	2.76	0.46
2:e:133:PHE:CE2	2:e:147:LEU:HB2	2.49	0.46
1:H:86:ALA:O	1:H:87:ARG:C	2.56	0.46
1:I:48:VAL:HG21	1:I:214:ILE:HG23	1.95	0.46
1:L:190:GLY:O	1:L:191:LEU:C	2.58	0.46
1:L:228:GLU:HA	1:L:231:LYS:HB3	1.97	0.46
1:N:92:ARG:HA	1:N:95:LEU:HB2	1.96	0.46
1:N:95:LEU:C	1:N:97:ALA:N	2.73	0.46
2:h:9:THR:HG22	2:h:22:THR:CA	2.45	0.46
2:j:111:ASP:O	2:j:112:LEU:C	2.57	0.46
2:k:141:PRO:HA	2:k:144:TYR:HB2	1.96	0.46
2:n:83:LEU:HD22	2:n:117:LYS:HE3	1.96	0.46
1:C:92:ARG:O	1:C:92:ARG:HD2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:53:ARG:HD3	1:E:65:ILE:HG21	1.97	0.46
1:E:59:LEU:HD12	1:E:59:LEU:N	2.30	0.46
1:E:140:ALA:HA	1:E:148:ARG:O	2.16	0.46
1:F:72:ASP:OD2	1:F:98:GLN:NE2	2.47	0.46
1:F:119:ASP:O	1:F:122:GLN:N	2.48	0.46
1:F:235:GLU:HA	1:F:235:GLU:OE2	2.15	0.46
1:G:117:ILE:HD13	1:G:118:CYS:N	2.29	0.46
1:G:231:LYS:CA	1:G:234:ILE:HG22	2.45	0.46
2:a:135:ALA:N	2:a:144:TYR:HE1	2.14	0.46
2:b:25:ARG:HB2	2:b:180:ASN:CB	2.46	0.46
2:d:40:LEU:HD13	2:d:50:THR:HG22	1.93	0.46
2:e:172:MET:HE3	2:e:179:GLY:HA2	1.97	0.46
2:f:62:VAL:O	2:f:65:LEU:HB3	2.15	0.46
2:g:128:ASN:ND2	2:g:129:GLU:H	2.13	0.46
1:I:199:THR:CA	1:I:205:ILE:HD11	2.38	0.46
1:I:214:ILE:N	1:I:214:ILE:HD12	2.29	0.46
1:K:173:VAL:O	1:K:177:LEU:HD13	2.15	0.46
1:K:227:VAL:HA	1:K:230:ILE:HD12	1.97	0.46
1:L:16:PHE:CE1	1:M:28:ALA:HA	2.50	0.46
1:N:173:VAL:C	1:N:175:GLU:N	2.72	0.46
1:N:178:GLU:O	1:N:178:GLU:HG3	2.16	0.46
1:N:179:LYS:HB2	1:N:179:LYS:HE3	1.68	0.46
2:l:10:VAL:HG23	2:l:21:ALA:HB3	1.97	0.46
2:l:60:ALA:O	2:l:61:ILE:C	2.59	0.46
2:m:203:ILE:C	2:m:205:ASP:N	2.73	0.46
1:B:70:GLN:HA	1:B:76:ALA:CB	2.45	0.46
1:C:96:GLU:HG2	1:C:116:LYS:CG	2.30	0.46
1:D:29:ARG:O	1:D:32:VAL:HB	2.15	0.46
1:D:55:ILE:HD12	1:D:209:ASN:OD1	2.16	0.46
1:D:65:ILE:O	1:D:65:ILE:CG1	2.57	0.46
1:D:126:GLN:HB2	1:E:131:ARG:HG2	1.96	0.46
1:E:41:ILE:O	1:E:47:VAL:HG23	2.16	0.46
1:F:32:VAL:O	1:F:35:GLY:N	2.48	0.46
2:a:54:SER:HB3	2:a:102:LEU:CD2	2.44	0.46
2:a:82:PRO:O	2:a:84:ALA:N	2.49	0.46
2:b:69:ALA:C	2:b:71:LEU:N	2.73	0.46
2:b:199:GLU:H	2:b:199:GLU:HG3	1.42	0.46
2:e:86:ALA:HB1	2:e:127:MET:HE1	1.96	0.46
2:e:97:ARG:C	2:e:99:PHE:N	2.72	0.46
2:e:156:SER:N	2:e:159:GLU:HB2	2.30	0.46
2:g:188:THR:O	2:g:189:LYS:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:25:VAL:CG2	1:I:26:GLU:N	2.78	0.46
1:J:17:SER:HB3	1:J:21:ARG:O	2.15	0.46
1:K:122:GLN:CG	1:L:84:ALA:HB1	2.46	0.46
2:h:121:LEU:HD12	2:h:121:LEU:HA	1.81	0.46
2:h:176:THR:OG1	2:h:177:PHE:HD2	1.97	0.46
2:i:172:MET:CB	2:i:179:GLY:HA2	2.45	0.46
2:j:19:ILE:HG12	2:j:161:ILE:HG23	1.97	0.46
2:k:65:LEU:HD23	2:k:65:LEU:C	2.41	0.46
2:k:105:ILE:HG22	2:k:121:LEU:CB	2.45	0.46
2:l:60:ALA:C	2:l:62:VAL:N	2.72	0.46
2:n:7:THR:N	2:n:23:ASP:OD1	2.48	0.46
2:n:94:HIS:O	2:n:97:ARG:HG2	2.15	0.46
2:n:133:PHE:CZ	2:n:148:GLU:OE2	2.68	0.46
2:n:200:ILE:O	2:n:202:LYS:N	2.48	0.46
1:B:19:GLU:OE1	1:B:19:GLU:N	2.49	0.46
1:B:36:THR:O	1:B:167:GLY:HA3	2.15	0.46
1:B:122:GLN:O	1:B:125:THR:HB	2.15	0.46
1:C:52:ASP:HB2	1:C:198:LEU:CG	2.45	0.46
1:C:126:GLN:HB2	1:D:131:ARG:CG	2.45	0.46
1:D:117:ILE:HD13	1:D:117:ILE:N	2.29	0.46
1:D:122:GLN:C	1:D:122:GLN:OE1	2.58	0.46
1:F:61:LYS:C	1:F:63:ARG:H	2.24	0.46
1:F:228:GLU:HA	1:F:231:LYS:HB3	1.96	0.46
1:G:22:LEU:C	1:G:22:LEU:HD23	2.40	0.46
2:b:16:ASP:CB	2:b:189:LYS:HZ1	2.23	0.46
2:b:69:ALA:C	2:b:71:LEU:H	2.21	0.46
2:b:82:PRO:C	2:b:84:ALA:N	2.73	0.46
2:b:101:PHE:CD1	2:b:102:LEU:N	2.80	0.46
2:c:96:SER:HB3	2:c:101:PHE:HB2	1.97	0.46
2:e:172:MET:CB	2:e:179:GLY:HA2	2.45	0.46
2:f:35:LYS:O	2:f:35:LYS:HG2	2.14	0.46
2:f:58:ALA:O	2:f:59:GLN:C	2.59	0.46
2:f:110:TYR:CE2	2:f:189:LYS:HD3	2.48	0.46
2:g:24:LYS:HE2	2:g:183:SER:HB2	1.96	0.46
1:H:42:ALA:O	1:H:43:CYS:CB	2.63	0.46
1:H:182:ARG:HB2	1:H:185:ILE:HG23	1.97	0.46
1:J:203:GLU:O	1:J:204:ASP:CB	2.64	0.46
1:J:231:LYS:C	1:J:233:LEU:H	2.24	0.46
1:K:32:VAL:C	1:K:34:ARG:N	2.72	0.46
1:K:122:GLN:O	1:K:125:THR:HB	2.15	0.46
1:L:117:ILE:HD13	1:L:117:ILE:N	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:93:ALA:HB2	1:M:117:ILE:HG21	1.98	0.46
1:N:137:LEU:HB2	1:N:152:THR:OG1	2.14	0.46
2:h:28:LEU:HB2	2:h:33:ALA:HB2	1.98	0.46
2:j:10:VAL:CG1	2:j:135:ALA:HB2	2.44	0.46
2:j:184:LEU:HD22	2:j:195:PHE:CE1	2.50	0.46
2:k:69:ALA:C	2:k:71:LEU:N	2.72	0.46
2:k:110:TYR:CE1	2:k:189:LYS:NZ	2.80	0.46
2:l:22:THR:HG21	2:l:40:LEU:HB2	1.97	0.46
2:l:101:PHE:CD1	2:l:102:LEU:N	2.78	0.46
2:m:86:ALA:O	2:m:127:MET:HE1	2.16	0.46
2:m:202:LYS:HD3	2:m:203:ILE:CG1	2.45	0.46
2:n:43:ILE:H	2:n:43:ILE:CD1	2.18	0.46
2:n:184:LEU:HD22	2:n:195:PHE:HE1	1.81	0.46
1:A:37:THR:HB	1:A:169:GLY:H	1.80	0.46
1:A:203:GLU:O	1:A:204:ASP:HB2	2.16	0.46
1:A:222:PHE:C	1:A:222:PHE:CD1	2.94	0.46
1:B:164:THR:HG23	1:B:165:ALA:N	2.29	0.46
1:C:192:GLU:O	1:C:193:LEU:C	2.58	0.46
1:E:85:ASP:OD2	1:E:85:ASP:N	2.48	0.46
1:E:114:ALA:C	1:E:116:LYS:N	2.72	0.46
1:E:214:ILE:HD12	1:E:214:ILE:N	2.31	0.46
2:a:103:THR:H	2:a:123:PRO:CG	2.28	0.46
2:b:63:ARG:C	2:b:65:LEU:N	2.74	0.46
2:d:107:ILE:HG13	2:d:119:PHE:HB2	1.97	0.46
2:d:203:ILE:O	2:d:206:SER:N	2.47	0.46
2:g:102:LEU:O	2:g:103:THR:CB	2.63	0.46
2:g:195:PHE:HB3	2:g:199:GLU:OE1	2.15	0.46
1:J:238:LYS:HD2	1:J:238:LYS:N	2.31	0.46
1:L:18:PRO:C	1:M:27:TYR:CD1	2.94	0.46
1:L:52:ASP:HB2	1:L:198:LEU:HD21	1.96	0.46
1:M:28:ALA:O	1:M:29:ARG:C	2.56	0.46
1:M:102:LEU:CD2	1:M:103:THR:HG23	2.45	0.46
1:M:173:VAL:O	1:M:176:LEU:N	2.48	0.46
2:h:12:LEU:N	2:h:12:LEU:HD23	2.31	0.46
2:l:88:LEU:C	2:l:92:ILE:HG13	2.39	0.46
2:l:103:THR:HG23	2:l:104:GLN:O	2.16	0.46
2:m:187:ILE:O	2:m:187:ILE:HD12	2.15	0.46
2:n:97:ARG:C	2:n:99:PHE:N	2.72	0.46
2:n:102:LEU:O	2:n:102:LEU:HD13	2.15	0.46
1:A:83:VAL:HG11	1:G:158:LEU:HD12	1.96	0.46
1:A:89:LEU:HD21	1:A:121:LYS:HD3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:231:LYS:HE2	1:A:235:GLU:OE1	2.15	0.46
1:D:126:GLN:O	1:E:130:VAL:HG23	2.15	0.46
1:F:48:VAL:HG12	1:F:49:LEU:N	2.31	0.46
1:G:153:ASP:OD1	1:G:154:PRO:N	2.49	0.46
2:a:110:TYR:CD2	2:a:189:LYS:HA	2.50	0.46
2:b:60:ALA:HA	2:b:63:ARG:CZ	2.46	0.46
2:b:88:LEU:O	2:b:89:LEU:C	2.59	0.46
2:b:89:LEU:O	2:b:90:SER:C	2.58	0.46
2:c:72:TYR:O	2:c:76:THR:HG22	2.15	0.46
2:d:23:ASP:O	2:d:25:ARG:N	2.48	0.46
2:e:54:SER:CB	2:e:102:LEU:HD21	2.46	0.46
1:H:131:ARG:HG3	1:H:131:ARG:O	2.16	0.46
1:J:16:PHE:HD2	1:K:131:ARG:HD2	1.80	0.46
1:K:48:VAL:HG12	1:K:49:LEU:N	2.31	0.46
1:K:68:ILE:HA	1:K:78:ALA:HA	1.97	0.46
1:L:82:LEU:HD11	1:L:134:GLY:HA3	1.98	0.46
1:L:235:GLU:O	1:L:237:VAL:N	2.48	0.46
1:M:210:VAL:HG23	1:M:230:ILE:HG21	1.96	0.46
1:M:236:LYS:HA	1:M:239:LYS:HE2	1.98	0.46
2:i:49:MET:HB3	2:i:107:ILE:HG22	1.98	0.46
2:j:7:THR:HG22	2:j:138:SER:N	2.29	0.46
2:j:49:MET:CE	2:j:62:VAL:HG22	2.45	0.46
2:j:69:ALA:HB1	2:j:80:ILE:HD11	1.97	0.46
2:j:88:LEU:HG	2:j:92:ILE:HD11	1.96	0.46
2:j:155:MET:O	2:j:156:SER:O	2.33	0.46
2:l:184:LEU:O	2:l:195:PHE:CD1	2.69	0.46
2:n:82:PRO:HG2	2:n:83:LEU:H	1.81	0.46
2:n:107:ILE:HG13	2:n:119:PHE:HB2	1.97	0.46
2:n:122:ASP:OD2	2:n:122:ASP:C	2.57	0.46
1:A:53:ARG:HB2	1:A:209:ASN:O	2.15	0.46
1:A:121:LYS:HG3	1:A:133:PHE:CD1	2.51	0.46
2:b:16:ASP:C	2:b:189:LYS:HZ3	2.24	0.46
2:b:140:SER:N	2:b:141:PRO:CD	2.78	0.46
2:b:155:MET:HE1	2:b:163:LEU:HD22	1.98	0.46
2:b:161:ILE:HD12	2:b:162:LYS:N	2.31	0.46
2:g:102:LEU:C	2:g:102:LEU:HD13	2.41	0.46
2:g:128:ASN:ND2	2:g:129:GLU:N	2.57	0.46
2:g:158:GLU:O	2:g:162:LYS:HG2	2.16	0.46
1:H:184:ASP:O	1:H:185:ILE:C	2.59	0.46
1:H:222:PHE:CD1	1:H:222:PHE:O	2.69	0.46
1:K:72:ASP:C	1:K:74:HIS:N	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:42:ALA:HA	1:L:47:VAL:HG23	1.97	0.46
1:L:121:LYS:HZ1	1:L:152:THR:CB	2.28	0.46
1:M:40:GLY:HA2	1:M:49:LEU:HD12	1.97	0.46
2:h:184:LEU:HB3	2:h:195:PHE:HD1	1.81	0.46
2:h:200:ILE:O	2:h:202:LYS:N	2.48	0.46
2:i:196:GLU:O	2:i:197:ASP:C	2.58	0.46
2:i:201:GLU:O	2:i:202:LYS:C	2.59	0.46
2:j:69:ALA:HB1	2:j:80:ILE:CD1	2.46	0.46
2:k:23:ASP:O	2:k:25:ARG:N	2.48	0.46
2:k:89:LEU:HD23	2:k:89:LEU:HA	1.73	0.46
2:l:142:ILE:O	2:l:143:ALA:C	2.58	0.46
2:m:8:THR:O	2:m:168:LEU:HD21	2.15	0.46
2:m:80:ILE:H	2:m:80:ILE:CD1	2.24	0.46
2:m:161:ILE:HG22	2:m:184:LEU:HD11	1.97	0.46
1:A:85:ASP:HA	1:A:88:VAL:HG22	1.98	0.46
1:A:100:TYR:C	1:A:100:TYR:CD2	2.94	0.46
1:A:108:ILE:HD11	1:A:113:LEU:HB2	1.98	0.46
1:B:190:GLY:O	1:B:191:LEU:C	2.59	0.46
1:C:223:LYS:HG3	1:C:224:LYS:N	2.31	0.46
1:E:90:ILE:C	1:E:92:ARG:N	2.62	0.46
1:E:137:LEU:HB2	1:E:152:THR:OG1	2.15	0.46
1:G:32:VAL:O	1:G:35:GLY:N	2.48	0.46
1:G:184:ASP:O	1:G:185:ILE:C	2.59	0.46
2:a:122:ASP:HB2	2:a:123:PRO:CD	2.46	0.46
2:b:24:LYS:HE3	2:b:183:SER:HB2	1.94	0.46
2:b:54:SER:HB2	2:b:102:LEU:HD11	1.97	0.46
2:b:72:TYR:C	2:b:72:TYR:CD2	2.93	0.46
2:c:13:ILE:HG12	2:c:18:VAL:HG22	1.98	0.46
2:c:23:ASP:O	2:c:23:ASP:CG	2.58	0.46
2:c:25:ARG:HB2	2:c:180:ASN:H	1.80	0.46
2:d:25:ARG:HB2	2:d:180:ASN:H	1.81	0.46
2:e:82:PRO:C	2:e:84:ALA:H	2.22	0.46
1:H:36:THR:HA	1:H:54:ARG:NH1	2.29	0.46
1:H:202:ASN:C	1:H:202:ASN:OD1	2.59	0.46
1:I:18:PRO:HA	1:J:27:TYR:CD1	2.51	0.46
1:I:122:GLN:C	1:I:122:GLN:CD	2.83	0.46
1:I:126:GLN:NE2	1:J:133:PHE:HE2	2.07	0.46
1:K:66:GLU:HB3	1:K:69:PHE:CZ	2.51	0.46
1:N:227:VAL:HG12	1:N:228:GLU:HG2	1.97	0.46
2:h:96:SER:CB	2:h:101:PHE:HB2	2.45	0.46
2:i:97:ARG:C	2:i:99:PHE:N	2.71	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l:175:ASP:CG	2:l:177:PHE:H	2.24	0.46
2:m:40:LEU:HD13	2:m:50:THR:HG22	1.98	0.46
2:m:44:ASP:OD1	2:m:79:ASN:HB3	2.16	0.46
2:m:83:LEU:HB3	2:m:119:PHE:CZ	2.49	0.46
2:n:107:ILE:CG1	2:n:119:PHE:HB2	2.46	0.46
1:A:214:ILE:N	1:A:214:ILE:CD1	2.79	0.46
1:B:87:ARG:O	1:B:88:VAL:C	2.59	0.46
1:B:235:GLU:O	1:B:237:VAL:N	2.49	0.46
1:C:95:LEU:C	1:C:97:ALA:H	2.23	0.46
1:D:173:VAL:O	1:D:176:LEU:N	2.49	0.46
1:D:186:THR:H	1:D:189:GLU:HB3	1.81	0.46
1:E:72:ASP:HB3	1:E:74:HIS:ND1	2.30	0.46
1:F:102:LEU:HD23	1:F:103:THR:HG23	1.98	0.46
2:b:147:LEU:O	2:b:149:ALA:N	2.49	0.46
2:d:49:MET:CE	2:d:62:VAL:HG22	2.44	0.46
2:d:86:ALA:C	2:d:88:LEU:H	2.23	0.46
2:f:201:GLU:O	2:f:203:ILE:N	2.49	0.46
2:g:172:MET:CB	2:g:179:GLY:HA2	2.46	0.46
2:g:184:LEU:HB3	2:g:195:PHE:HD1	1.80	0.46
1:J:25:VAL:HG23	1:J:26:GLU:N	2.31	0.46
1:L:32:VAL:HG11	1:L:170:ARG:NH2	2.29	0.46
1:L:53:ARG:HB2	1:L:209:ASN:O	2.16	0.46
1:M:181:TYR:C	1:M:182:ARG:HG3	2.40	0.46
2:h:103:THR:H	2:h:123:PRO:CG	2.29	0.46
2:k:72:TYR:C	2:k:72:TYR:HD2	2.22	0.46
2:k:176:THR:HG1	2:k:177:PHE:HD2	1.64	0.46
2:n:133:PHE:HZ	2:n:148:GLU:OE2	1.98	0.46
2:n:167:ALA:O	2:n:168:LEU:C	2.58	0.46
1:A:37:THR:HG22	1:A:168:SER:HB3	1.97	0.46
1:A:95:LEU:C	1:A:97:ALA:H	2.24	0.46
1:B:80:SER:HB3	1:B:166:ILE:CD1	2.46	0.46
1:B:207:PRO:O	1:B:227:VAL:HG13	2.15	0.46
1:C:68:ILE:HD13	1:C:68:ILE:H	1.80	0.46
1:D:23:TYR:O	1:D:24:GLN:C	2.58	0.46
1:D:106:GLU:O	1:D:107:GLU:C	2.58	0.46
1:E:55:ILE:CD1	1:E:62:ILE:HG23	2.46	0.46
1:F:69:PHE:O	1:F:76:ALA:HB1	2.16	0.46
1:F:71:ILE:HG21	1:F:113:LEU:HD21	1.98	0.46
2:a:72:TYR:CE2	2:a:80:ILE:HA	2.51	0.46
2:a:86:ALA:HB1	2:a:127:MET:HE1	1.98	0.46
2:b:43:ILE:O	2:b:70:LYS:HE3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:d:158:GLU:C	2:d:160:GLY:H	2.24	0.46
2:e:172:MET:HE3	2:e:179:GLY:CA	2.45	0.46
1:I:49:LEU:HD23	1:I:78:ALA:HB2	1.97	0.46
1:I:173:VAL:O	1:I:177:LEU:HD13	2.15	0.46
1:I:214:ILE:HD12	1:I:214:ILE:H	1.81	0.46
1:K:34:ARG:O	1:K:35:GLY:O	2.33	0.46
1:K:77:ALA:HA	1:K:138:LEU:O	2.16	0.46
1:K:189:GLU:O	1:K:193:LEU:HD13	2.15	0.46
1:L:36:THR:HG21	1:L:67:LYS:HE2	1.98	0.46
1:N:15:VAL:HB	1:N:23:TYR:HB2	1.97	0.46
2:h:104:GLN:O	2:h:105:ILE:CG1	2.63	0.46
2:i:10:VAL:O	2:i:20:LEU:HA	2.15	0.46
2:j:199:GLU:H	2:j:199:GLU:HG3	1.52	0.46
2:k:74:MET:C	2:k:76:THR:H	2.23	0.46
2:l:97:ARG:CG	2:l:98:MET:H	2.23	0.46
2:m:23:ASP:O	2:m:39:LYS:HD2	2.16	0.46
2:m:83:LEU:HB3	2:m:119:PHE:HZ	1.81	0.46
2:m:169:LYS:HD2	2:m:204:LEU:CD1	2.45	0.46
1:A:162:LYS:O	1:A:163:ALA:HB2	2.16	0.45
1:B:55:ILE:CD1	1:B:62:ILE:HG23	2.46	0.45
1:B:142:ILE:HD12	1:B:217:VAL:HG23	1.99	0.45
1:B:182:ARG:C	1:B:184:ASP:N	2.73	0.45
1:C:187:LEU:CD1	1:C:216:THR:HG22	2.46	0.45
1:D:92:ARG:HD2	1:D:92:ARG:O	2.16	0.45
1:D:170:ARG:O	1:D:174:MET:HB3	2.16	0.45
1:F:32:VAL:CG1	1:F:170:ARG:HH21	2.29	0.45
2:c:102:LEU:CD2	2:c:103:THR:N	2.77	0.45
2:c:122:ASP:OD2	2:c:122:ASP:C	2.59	0.45
2:d:69:ALA:HA	2:d:80:ILE:HG12	1.97	0.45
2:g:203:ILE:O	2:g:207:MET:HG3	2.15	0.45
1:H:167:GLY:O	1:H:168:SER:C	2.59	0.45
1:H:217:VAL:HG13	1:H:218:LYS:HD3	1.98	0.45
1:I:114:ALA:O	1:I:116:LYS:N	2.49	0.45
1:I:214:ILE:CD1	1:I:225:ILE:HG13	2.40	0.45
1:J:122:GLN:O	1:J:125:THR:CB	2.64	0.45
1:K:208:GLU:C	1:K:208:GLU:OE1	2.58	0.45
1:L:100:TYR:C	1:L:100:TYR:CD2	2.94	0.45
1:M:61:LYS:HE2	1:M:63:ARG:CG	2.46	0.45
1:M:140:ALA:CB	1:M:148:ARG:O	2.64	0.45
1:M:189:GLU:O	1:M:193:LEU:HD13	2.16	0.45
1:N:52:ASP:CG	1:N:52:ASP:O	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:166:ILE:HA	1:N:170:ARG:HG2	1.98	0.45
1:N:203:GLU:O	1:N:204:ASP:HB2	2.16	0.45
2:h:18:VAL:O	2:h:187:ILE:HD12	2.16	0.45
2:i:47:ILE:HG22	2:i:48:ALA:N	2.31	0.45
2:k:142:ILE:HD13	2:k:174:ARG:O	2.15	0.45
2:l:121:LEU:HD12	2:l:121:LEU:HA	1.73	0.45
1:A:160:GLU:HB2	1:B:64:SER:HB3	1.97	0.45
1:A:175:GLU:HA	1:A:178:GLU:HB2	1.98	0.45
1:B:69:PHE:CD2	1:B:90:ILE:HG21	2.51	0.45
1:D:154:PRO:O	1:D:155:SER:HB3	2.16	0.45
1:F:25:VAL:HG22	1:F:26:GLU:N	2.32	0.45
2:c:7:THR:HA	2:c:39:LYS:CE	2.46	0.45
2:d:165:LEU:O	2:d:168:LEU:N	2.49	0.45
2:f:9:THR:OG1	2:f:136:THR:CG2	2.64	0.45
2:f:120:SER:O	2:f:121:LEU:HD13	2.16	0.45
2:f:130:GLU:HG2	2:f:134:THR:HB	1.98	0.45
2:g:16:ASP:O	2:g:189:LYS:NZ	2.50	0.45
2:g:188:THR:HG21	2:g:193:LYS:HZ3	1.80	0.45
1:I:239:LYS:HG3	1:I:240:LYS:CE	2.46	0.45
1:J:15:VAL:HG21	1:J:24:GLN:CB	2.46	0.45
1:L:89:LEU:CD2	1:L:121:LYS:HD3	2.47	0.45
1:L:113:LEU:O	1:L:117:ILE:HD12	2.16	0.45
1:M:84:ALA:O	1:M:88:VAL:HG22	2.16	0.45
1:N:89:LEU:HD21	1:N:121:LYS:HD3	1.98	0.45
2:i:25:ARG:CD	2:i:180:ASN:HB2	2.45	0.45
2:i:102:LEU:C	2:i:102:LEU:CD2	2.82	0.45
2:i:175:ASP:O	2:i:176:THR:C	2.59	0.45
2:k:196:GLU:O	2:k:197:ASP:C	2.59	0.45
2:l:22:THR:HG21	2:l:39:LYS:C	2.40	0.45
2:l:105:ILE:HG22	2:l:105:ILE:O	2.17	0.45
2:l:107:ILE:CG1	2:l:119:PHE:HB2	2.47	0.45
2:m:9:THR:OG1	2:m:136:THR:CG2	2.64	0.45
2:m:43:ILE:HD11	2:m:47:ILE:CB	2.46	0.45
2:n:20:LEU:O	2:n:184:LEU:HD23	2.17	0.45
1:B:52:ASP:HB2	1:B:198:LEU:CD2	2.43	0.45
1:B:99:ILE:HG22	1:B:100:TYR:N	2.29	0.45
1:C:51:VAL:HG11	1:C:67:LYS:HG3	1.98	0.45
1:C:66:GLU:HB3	1:C:69:PHE:CE1	2.51	0.45
1:D:184:ASP:O	1:D:185:ILE:C	2.60	0.45
1:E:61:LYS:HG2	1:E:63:ARG:HG2	1.97	0.45
1:E:83:VAL:CG1	1:E:83:VAL:O	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:117:ILE:HD13	1:F:117:ILE:N	2.30	0.45
2:a:61:ILE:O	2:a:61:ILE:CG2	2.63	0.45
2:a:102:LEU:C	2:a:123:PRO:HB3	2.42	0.45
2:b:86:ALA:C	2:b:127:MET:HE1	2.42	0.45
2:g:86:ALA:HA	2:g:107:ILE:HD11	1.97	0.45
1:H:48:VAL:CG1	1:H:49:LEU:N	2.78	0.45
1:H:84:ALA:HB1	1:N:122:GLN:HG2	1.97	0.45
1:H:103:THR:O	2:i:88:LEU:HD12	2.16	0.45
1:H:130:VAL:HG13	1:H:130:VAL:O	2.15	0.45
1:H:187:LEU:HD23	1:H:187:LEU:HA	1.78	0.45
1:H:212:VAL:HG11	1:H:225:ILE:HD12	1.98	0.45
1:I:15:VAL:HB	1:I:23:TYR:HB2	1.98	0.45
1:I:112:MET:O	1:I:113:LEU:C	2.59	0.45
1:J:45:ASP:OD1	1:J:186:THR:HB	2.17	0.45
1:J:125:THR:CG2	1:K:131:ARG:HH21	2.29	0.45
1:J:177:LEU:C	1:J:179:LYS:H	2.25	0.45
1:K:66:GLU:CD	1:K:69:PHE:HE1	2.23	0.45
1:L:102:LEU:HD23	1:L:103:THR:CG2	2.45	0.45
1:M:160:GLU:HB2	1:N:64:SER:HB3	1.99	0.45
1:M:215:ILE:HG12	1:M:222:PHE:HA	1.97	0.45
2:i:78:ARG:O	2:i:80:ILE:N	2.49	0.45
2:i:133:PHE:HZ	2:i:148:GLU:OE2	1.99	0.45
2:j:140:SER:OG	2:j:141:PRO:HD3	2.16	0.45
2:j:141:PRO:O	2:j:144:TYR:HB2	2.16	0.45
2:k:137:GLY:O	2:k:140:SER:HB3	2.16	0.45
2:k:146:VAL:CG2	2:k:167:ALA:HA	2.45	0.45
2:l:76:THR:O	2:l:78:ARG:N	2.49	0.45
2:l:135:ALA:HB3	2:l:144:TYR:CD1	2.51	0.45
2:m:69:ALA:C	2:m:71:LEU:N	2.75	0.45
2:n:121:LEU:HD11	2:n:127:MET:HB2	1.99	0.45
1:A:45:ASP:OD2	1:A:45:ASP:N	2.50	0.45
1:C:20:GLY:HA2	1:D:31:ALA:N	2.31	0.45
1:C:77:ALA:HB2	1:C:139:ILE:HG23	1.98	0.45
1:C:199:THR:CA	1:C:205:ILE:HD11	2.42	0.45
1:D:72:ASP:CG	1:D:98:GLN:HE22	2.20	0.45
1:E:68:ILE:HD11	1:E:211:ASP:CG	2.41	0.45
1:E:142:ILE:HG23	1:E:217:VAL:HG23	1.99	0.45
1:F:39:ILE:HG12	1:F:165:ALA:CB	2.45	0.45
1:G:164:THR:HG23	1:G:165:ALA:N	2.31	0.45
1:G:196:THR:O	1:G:197:ALA:C	2.59	0.45
2:a:38:LYS:HB3	2:a:41:TYR:OH	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:89:LEU:O	2:a:93:LEU:HB2	2.16	0.45
2:b:102:LEU:O	2:b:103:THR:HB	2.16	0.45
2:c:105:ILE:HG23	2:c:106:ILE:N	2.31	0.45
2:d:12:LEU:CD2	2:d:19:ILE:HB	2.46	0.45
2:d:86:ALA:O	2:d:88:LEU:N	2.49	0.45
2:e:170:SER:O	2:e:171:ALA:C	2.59	0.45
2:g:65:LEU:HD23	2:g:65:LEU:O	2.16	0.45
2:g:96:SER:O	2:g:99:PHE:O	2.35	0.45
1:H:112:MET:O	1:H:113:LEU:C	2.59	0.45
1:I:102:LEU:HD11	2:i:64:LEU:HA	1.99	0.45
1:J:14:THR:C	1:J:15:VAL:HG22	2.41	0.45
1:J:89:LEU:HD21	1:J:133:PHE:HD1	1.79	0.45
1:L:108:ILE:HD11	1:L:113:LEU:HB2	1.98	0.45
1:M:25:VAL:O	1:M:28:ALA:HB3	2.16	0.45
2:h:140:SER:OG	2:h:141:PRO:CD	2.65	0.45
2:j:72:TYR:O	2:j:76:THR:HG22	2.16	0.45
2:k:88:LEU:O	2:k:91:ASN:N	2.50	0.45
2:k:172:MET:HB3	2:k:179:GLY:CA	2.44	0.45
2:m:92:ILE:O	2:m:95:SER:OG	2.33	0.45
2:n:26:ALA:HB3	2:n:34:ASP:N	2.32	0.45
2:n:120:SER:O	2:n:121:LEU:HD13	2.16	0.45
1:A:93:ALA:HB2	1:A:117:ILE:HG21	1.99	0.45
1:A:95:LEU:C	1:A:97:ALA:N	2.73	0.45
1:A:102:LEU:CD2	1:A:103:THR:HG23	2.47	0.45
1:C:203:GLU:O	1:C:204:ASP:HB2	2.17	0.45
1:C:223:LYS:HG3	1:C:224:LYS:H	1.81	0.45
1:D:66:GLU:CD	1:D:69:PHE:HE1	2.25	0.45
1:D:69:PHE:CD2	1:D:90:ILE:HG12	2.52	0.45
1:D:90:ILE:C	1:D:90:ILE:HD12	2.42	0.45
1:E:100:TYR:CE2	1:E:108:ILE:HA	2.50	0.45
1:E:236:LYS:HA	1:E:239:LYS:HE2	1.97	0.45
1:F:72:ASP:OD2	1:F:101:ARG:NH1	2.50	0.45
1:G:32:VAL:O	1:G:34:ARG:N	2.50	0.45
2:b:35:LYS:HA	2:b:180:ASN:ND2	2.32	0.45
2:b:77:GLY:O	2:b:78:ARG:C	2.59	0.45
2:b:83:LEU:HD22	2:b:117:LYS:HG3	1.99	0.45
2:c:82:PRO:O	2:c:84:ALA:N	2.50	0.45
2:d:103:THR:N	2:d:123:PRO:HG3	2.29	0.45
2:e:143:ALA:O	2:e:144:TYR:C	2.60	0.45
2:e:175:ASP:OD1	2:e:178:SER:N	2.50	0.45
2:f:184:LEU:HD23	2:f:185:ALA:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:g:12:LEU:N	2:g:12:LEU:CD2	2.79	0.45
2:g:86:ALA:HA	2:g:107:ILE:CD1	2.46	0.45
1:H:123:ALA:C	1:H:125:THR:H	2.24	0.45
1:H:126:GLN:HB3	1:I:131:ARG:CZ	2.46	0.45
1:I:36:THR:O	1:I:167:GLY:HA3	2.16	0.45
1:I:66:GLU:OE1	1:I:69:PHE:HE1	2.00	0.45
1:J:161:TYR:CG	1:J:164:THR:HB	2.52	0.45
1:J:239:LYS:O	1:J:240:LYS:HD3	2.16	0.45
1:K:48:VAL:HG22	1:K:214:ILE:HG23	1.96	0.45
1:L:239:LYS:HE3	1:L:240:LYS:HE2	1.97	0.45
1:M:182:ARG:C	1:M:184:ASP:N	2.72	0.45
1:N:61:LYS:C	1:N:63:ARG:N	2.75	0.45
1:N:125:THR:HA	1:N:132:PRO:HG3	1.97	0.45
2:h:34:ASP:C	2:h:36:GLU:H	2.25	0.45
2:h:121:LEU:HD11	2:h:127:MET:HE3	1.98	0.45
2:i:62:VAL:O	2:i:65:LEU:N	2.50	0.45
2:i:89:LEU:HA	2:i:89:LEU:HD23	1.59	0.45
2:i:161:ILE:HD12	2:i:162:LYS:HG2	1.97	0.45
2:j:24:LYS:HE2	2:j:183:SER:HB2	1.98	0.45
2:k:97:ARG:O	2:k:99:PHE:N	2.49	0.45
2:l:142:ILE:CD1	2:l:171:ALA:HA	2.45	0.45
2:m:78:ARG:O	2:m:80:ILE:N	2.50	0.45
2:n:196:GLU:O	2:n:197:ASP:C	2.60	0.45
1:A:187:LEU:O	1:A:191:LEU:N	2.49	0.45
1:B:114:ALA:C	1:B:116:LYS:N	2.73	0.45
1:C:68:ILE:HD11	1:C:211:ASP:HB3	1.98	0.45
1:D:142:ILE:CD1	1:D:217:VAL:HA	2.47	0.45
1:D:153:ASP:OD1	1:D:153:ASP:C	2.59	0.45
1:D:180:GLU:CD	1:D:180:GLU:N	2.69	0.45
1:D:212:VAL:HG11	1:D:225:ILE:HD12	1.99	0.45
1:F:142:ILE:HD12	1:F:217:VAL:HG23	1.98	0.45
1:G:45:ASP:CA	1:G:218:LYS:HE2	2.46	0.45
2:a:71:LEU:HD21	2:a:75:ARG:NH1	2.31	0.45
2:a:83:LEU:HD23	2:a:83:LEU:H	1.81	0.45
2:c:45:ASP:C	2:c:46:TYR:HD2	2.25	0.45
2:c:72:TYR:HD2	2:c:72:TYR:O	1.97	0.45
2:f:110:TYR:CG	2:f:189:LYS:HA	2.51	0.45
2:f:172:MET:HG2	2:f:179:GLY:CA	2.35	0.45
2:g:10:VAL:HG12	2:g:135:ALA:HB2	1.98	0.45
2:g:187:ILE:H	2:g:187:ILE:HG13	1.58	0.45
1:H:51:VAL:HG11	1:H:67:LYS:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:52:ASP:HB2	1:I:198:LEU:CD2	2.44	0.45
1:I:82:LEU:CD1	1:I:134:GLY:HA3	2.41	0.45
1:K:41:ILE:HD13	1:K:193:LEU:HB3	1.98	0.45
1:K:227:VAL:O	1:K:228:GLU:CB	2.64	0.45
2:h:88:LEU:O	2:h:91:ASN:N	2.48	0.45
2:h:197:ASP:O	2:h:200:ILE:HG13	2.16	0.45
2:i:50:THR:OG1	2:i:50:THR:O	2.34	0.45
2:i:89:LEU:O	2:i:93:LEU:HB2	2.17	0.45
2:i:172:MET:CE	2:i:179:GLY:HA2	2.47	0.45
2:i:197:ASP:HA	2:i:200:ILE:HD12	1.98	0.45
2:k:110:TYR:HE1	2:k:189:LYS:HZ3	1.59	0.45
2:l:197:ASP:O	2:l:200:ILE:N	2.50	0.45
2:m:23:ASP:C	2:m:25:ARG:H	2.25	0.45
1:A:19:GLU:O	1:B:34:ARG:NH2	2.49	0.45
1:B:215:ILE:HG12	1:B:222:PHE:CA	2.47	0.45
1:E:60:VAL:O	1:E:61:LYS:C	2.57	0.45
1:E:72:ASP:C	1:E:74:HIS:H	2.23	0.45
1:F:103:THR:O	1:F:104:TYR:CG	2.69	0.45
1:G:208:GLU:C	1:G:210:VAL:H	2.23	0.45
2:b:94:HIS:O	2:b:97:ARG:HG2	2.16	0.45
2:b:148:GLU:HG3	2:b:148:GLU:O	2.17	0.45
2:c:23:ASP:OD2	2:c:25:ARG:CB	2.65	0.45
2:c:47:ILE:N	2:c:47:ILE:HD12	2.32	0.45
2:c:94:HIS:CE1	2:c:97:ARG:HD3	2.48	0.45
2:d:35:LYS:HA	2:d:180:ASN:ND2	2.32	0.45
2:d:155:MET:CE	2:d:159:GLU:O	2.64	0.45
2:e:102:LEU:O	2:e:103:THR:HB	2.17	0.45
2:f:69:ALA:C	2:f:71:LEU:H	2.22	0.45
2:f:81:PRO:HG3	2:f:112:LEU:HD11	1.98	0.45
2:g:93:LEU:HD13	2:g:93:LEU:HA	1.45	0.45
1:J:169:GLY:O	1:J:170:ARG:C	2.60	0.45
1:K:137:LEU:N	1:K:152:THR:OG1	2.42	0.45
1:K:161:TYR:CD2	1:L:60:VAL:HG13	2.51	0.45
1:K:224:LYS:HE3	1:K:224:LYS:HB3	1.46	0.45
1:L:15:VAL:HG21	1:L:24:GLN:CB	2.47	0.45
1:L:182:ARG:NH1	1:L:184:ASP:OD2	2.50	0.45
1:L:214:ILE:HD12	1:L:214:ILE:H	1.82	0.45
1:L:231:LYS:C	1:L:233:LEU:H	2.25	0.45
1:M:52:ASP:HB2	1:M:198:LEU:HD11	1.99	0.45
1:N:45:ASP:OD2	1:N:45:ASP:N	2.50	0.45
2:i:203:ILE:C	2:i:205:ASP:H	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:80:ILE:HD12	2:j:80:ILE:N	2.32	0.45
2:k:43:ILE:CD1	2:k:43:ILE:N	2.67	0.45
2:l:198:GLU:HG3	2:l:199:GLU:H	1.82	0.45
2:n:102:LEU:HD22	2:n:103:THR:CA	2.46	0.45
1:A:131:ARG:HH21	1:G:125:THR:CG2	2.30	0.45
1:B:214:ILE:HD11	1:B:225:ILE:HG13	1.98	0.45
1:C:51:VAL:HG11	1:C:67:LYS:CG	2.47	0.45
1:D:52:ASP:HB2	1:D:198:LEU:CD2	2.42	0.45
1:D:160:GLU:H	1:E:64:SER:CB	2.29	0.45
1:F:52:ASP:HB2	1:F:198:LEU:CD2	2.37	0.45
1:F:65:ILE:HG12	1:F:65:ILE:O	2.15	0.45
1:G:51:VAL:HG11	1:G:67:LYS:HG2	1.98	0.45
2:a:47:ILE:HD12	2:a:47:ILE:N	2.32	0.45
2:a:77:GLY:O	2:a:78:ARG:C	2.60	0.45
2:a:89:LEU:HD23	2:a:89:LEU:HA	1.71	0.45
2:b:197:ASP:HA	2:b:200:ILE:CD1	2.47	0.45
2:c:144:TYR:O	2:c:145:GLY:C	2.59	0.45
2:d:161:ILE:HD12	2:d:162:LYS:N	2.32	0.45
2:e:54:SER:HB3	2:e:102:LEU:HD21	1.99	0.45
2:f:43:ILE:N	2:f:43:ILE:CD1	2.77	0.45
2:f:155:MET:HE3	2:f:155:MET:HB3	1.71	0.45
2:g:102:LEU:CA	2:g:123:PRO:HB3	2.44	0.45
1:H:117:ILE:HD13	1:H:117:ILE:N	2.32	0.45
1:I:64:SER:O	1:I:66:GLU:N	2.50	0.45
1:J:18:PRO:C	1:K:27:TYR:CD1	2.95	0.45
1:J:85:ASP:HA	1:J:88:VAL:HG22	1.99	0.45
1:J:208:GLU:C	1:J:210:VAL:H	2.23	0.45
1:L:208:GLU:C	1:L:208:GLU:OE1	2.60	0.45
1:M:102:LEU:HD23	1:M:103:THR:N	2.32	0.45
1:M:207:PRO:HB3	1:M:231:LYS:HB2	1.99	0.45
2:h:172:MET:HG2	2:h:179:GLY:CA	2.37	0.45
2:i:25:ARG:CB	2:i:180:ASN:HB3	2.47	0.45
2:i:54:SER:CB	2:i:102:LEU:HD21	2.46	0.45
2:j:13:ILE:HG12	2:j:18:VAL:HG22	1.98	0.45
2:j:97:ARG:HB3	2:j:124:LEU:HD21	1.98	0.45
2:j:194:ILE:H	2:j:194:ILE:HG13	1.56	0.45
2:k:16:ASP:C	2:k:189:LYS:HZ1	2.24	0.45
2:l:72:TYR:O	2:l:76:THR:HG22	2.16	0.45
2:n:88:LEU:O	2:n:92:ILE:HG13	2.17	0.45
2:n:96:SER:CA	2:n:99:PHE:HB2	2.47	0.45
2:n:158:GLU:C	2:n:160:GLY:N	2.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:118:CYS:SG	1:B:156:GLY:HA2	2.57	0.45
1:C:13:ILE:HG12	1:D:13:ILE:HG21	1.99	0.45
1:C:162:LYS:O	1:C:163:ALA:HB2	2.15	0.45
1:C:199:THR:HG23	1:C:205:ILE:HD11	1.97	0.45
1:D:17:SER:HB3	1:D:22:LEU:HA	1.98	0.45
1:F:42:ALA:HA	1:F:47:VAL:HB	1.99	0.45
1:F:83:VAL:HG22	1:F:86:ALA:HB3	1.98	0.45
1:G:44:LYS:HE2	1:G:44:LYS:HB3	1.63	0.45
1:G:114:ALA:O	1:G:115:LYS:C	2.60	0.45
2:b:185:ALA:HA	2:b:193:LYS:O	2.17	0.45
2:c:16:ASP:C	2:c:189:LYS:NZ	2.75	0.45
2:d:12:LEU:N	2:d:12:LEU:HD23	2.31	0.45
2:d:25:ARG:HB2	2:d:180:ASN:HB3	1.99	0.45
2:e:197:ASP:O	2:e:200:ILE:N	2.50	0.45
2:g:111:ASP:O	2:g:112:LEU:C	2.60	0.45
2:g:135:ALA:N	2:g:144:TYR:CE1	2.85	0.45
2:g:184:LEU:HD23	2:g:185:ALA:N	2.32	0.45
1:H:125:THR:CG2	1:I:131:ARG:HH21	2.30	0.45
1:H:128:GLY:O	1:H:129:GLY:C	2.58	0.45
1:J:160:GLU:H	1:K:64:SER:CB	2.30	0.45
1:K:32:VAL:C	1:K:34:ARG:H	2.25	0.45
1:K:208:GLU:C	1:K:210:VAL:H	2.24	0.45
1:L:182:ARG:C	1:L:184:ASP:N	2.75	0.45
1:M:190:GLY:O	1:M:191:LEU:C	2.60	0.45
1:M:202:ASN:ND2	1:M:205:ILE:HG23	2.31	0.45
1:N:92:ARG:O	1:N:92:ARG:HD2	2.17	0.45
1:N:153:ASP:C	1:N:155:SER:N	2.75	0.45
2:h:101:PHE:CD1	2:h:102:LEU:N	2.74	0.45
2:i:25:ARG:HB2	2:i:180:ASN:H	1.82	0.45
2:i:130:GLU:CG	2:i:134:THR:HB	2.40	0.45
2:i:140:SER:H	2:i:141:PRO:HD2	1.81	0.45
2:j:65:LEU:C	2:j:65:LEU:CD2	2.87	0.45
2:j:71:LEU:O	2:j:75:ARG:HG3	2.16	0.45
2:j:122:ASP:OD2	2:j:122:ASP:O	2.34	0.45
2:j:198:GLU:HG3	2:j:199:GLU:H	1.80	0.45
2:j:202:LYS:HG3	2:j:203:ILE:H	1.76	0.45
2:k:102:LEU:O	2:k:103:THR:CB	2.60	0.45
2:k:105:ILE:HG22	2:k:121:LEU:HB2	1.99	0.45
2:k:169:LYS:CE	2:k:204:LEU:HD21	2.46	0.45
2:l:120:SER:O	2:l:121:LEU:CD1	2.64	0.45
2:l:137:GLY:O	2:l:138:SER:C	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:m:7:THR:HG22	2:m:138:SER:H	1.82	0.45
2:m:110:TYR:CE1	2:m:189:LYS:HE2	2.51	0.45
2:n:66:ILE:O	2:n:67:ALA:C	2.60	0.45
2:n:83:LEU:HD22	2:n:117:LYS:HG3	1.98	0.45
2:n:136:THR:OG1	2:n:137:GLY:N	2.49	0.45
2:n:161:ILE:HD12	2:n:162:LYS:N	2.32	0.45
1:B:48:VAL:HG22	1:B:214:ILE:HG23	1.97	0.45
1:E:39:ILE:HG12	1:E:165:ALA:CB	2.41	0.45
2:a:69:ALA:C	2:a:71:LEU:N	2.64	0.45
2:b:12:LEU:N	2:b:12:LEU:HD23	2.31	0.45
2:c:93:LEU:HA	2:c:93:LEU:HD13	1.56	0.45
2:d:184:LEU:HD23	2:d:185:ALA:H	1.82	0.45
2:e:38:LYS:HE2	2:e:40:LEU:O	2.16	0.45
2:f:199:GLU:H	2:f:199:GLU:HG3	1.61	0.45
2:g:55:VAL:C	2:g:57:ASP:H	2.25	0.45
2:g:63:ARG:C	2:g:65:LEU:N	2.73	0.45
2:g:69:ALA:HA	2:g:80:ILE:HG12	1.99	0.45
1:H:32:VAL:C	1:H:34:ARG:N	2.75	0.45
1:I:187:LEU:HD23	1:I:187:LEU:HA	1.85	0.45
1:J:22:LEU:HD23	1:J:22:LEU:C	2.41	0.45
1:J:70:GLN:HA	1:J:76:ALA:CB	2.47	0.45
1:L:42:ALA:O	1:L:43:CYS:CB	2.65	0.45
1:M:32:VAL:CG1	1:M:170:ARG:HH21	2.30	0.45
1:M:62:ILE:O	1:M:65:ILE:HG22	2.17	0.45
1:M:138:LEU:HA	1:M:150:PHE:O	2.17	0.45
1:N:68:ILE:HD11	1:N:211:ASP:CB	2.47	0.45
2:h:169:LYS:HD2	2:h:204:LEU:HD11	1.99	0.45
2:j:97:ARG:HB3	2:j:124:LEU:CD2	2.46	0.45
2:l:43:ILE:HD13	2:l:43:ILE:N	2.10	0.45
2:m:19:ILE:HG23	2:m:184:LEU:HD21	1.98	0.45
2:m:86:ALA:HB1	2:m:127:MET:CE	2.47	0.45
1:A:117:ILE:HD13	1:A:117:ILE:N	2.32	0.44
1:B:26:GLU:O	1:B:27:TYR:C	2.57	0.44
1:B:125:THR:CG2	1:C:131:ARG:HH21	2.30	0.44
1:B:187:LEU:CD1	1:B:216:THR:HG22	2.46	0.44
1:C:28:ALA:O	1:C:31:ALA:HB3	2.17	0.44
1:C:122:GLN:HG2	1:D:84:ALA:HB1	1.99	0.44
1:E:180:GLU:O	1:E:182:ARG:HG3	2.17	0.44
1:F:42:ALA:O	1:F:43:CYS:CB	2.64	0.44
1:F:231:LYS:C	1:F:233:LEU:N	2.75	0.44
1:G:77:ALA:HA	1:G:138:LEU:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:79:THR:HG21	1:G:86:ALA:HB1	1.99	0.44
2:a:72:TYR:O	2:a:73:LYS:C	2.59	0.44
2:b:184:LEU:HD22	2:b:195:PHE:CE1	2.52	0.44
2:c:118:LEU:HD12	2:c:118:LEU:HA	1.74	0.44
2:c:121:LEU:HD12	2:c:121:LEU:HA	1.61	0.44
2:c:135:ALA:HB3	2:c:144:TYR:CD1	2.52	0.44
2:f:140:SER:OG	2:f:141:PRO:HD3	2.17	0.44
2:g:144:TYR:O	2:g:145:GLY:C	2.60	0.44
2:g:161:ILE:O	2:g:165:LEU:HG	2.16	0.44
2:g:188:THR:O	2:g:191:GLY:N	2.46	0.44
2:g:197:ASP:O	2:g:198:GLU:C	2.60	0.44
1:l:51:VAL:CG2	1:l:68:ILE:HG23	2.47	0.44
1:k:90:ILE:O	1:k:92:ARG:N	2.50	0.44
1:k:151:GLU:O	1:k:157:ALA:HB1	2.17	0.44
1:m:103:THR:O	1:m:104:TYR:CG	2.70	0.44
1:m:231:LYS:HA	1:m:234:ILE:HG22	1.99	0.44
1:n:40:GLY:HA2	1:n:49:LEU:HD12	1.99	0.44
1:n:114:ALA:C	1:n:116:LYS:N	2.74	0.44
1:n:164:THR:HG23	1:n:165:ALA:N	2.31	0.44
1:n:231:LYS:HA	1:n:234:ILE:HG22	1.98	0.44
2:h:142:ILE:O	2:h:145:GLY:N	2.50	0.44
2:i:55:VAL:C	2:i:57:ASP:N	2.74	0.44
2:i:164:ALA:O	2:i:165:LEU:C	2.58	0.44
2:k:8:THR:HG23	2:k:168:LEU:CD2	2.47	0.44
2:k:102:LEU:HD22	2:k:103:THR:CA	2.47	0.44
2:l:69:ALA:HA	2:l:80:ILE:HG12	1.99	0.44
2:l:102:LEU:O	2:l:103:THR:CB	2.64	0.44
2:l:176:THR:HG1	2:l:177:PHE:HD2	1.60	0.44
2:m:94:HIS:O	2:m:97:ARG:HG2	2.18	0.44
2:m:202:LYS:CD	2:m:203:ILE:HG12	2.44	0.44
2:n:103:THR:H	2:n:123:PRO:HG3	1.81	0.44
1:A:225:ILE:HG23	1:A:229:GLU:HB2	2.00	0.44
1:C:214:ILE:HD11	1:C:225:ILE:HG13	1.98	0.44
1:D:51:VAL:HG11	1:D:67:LYS:CG	2.47	0.44
1:D:162:LYS:HG2	1:D:183:ASP:OD1	2.17	0.44
1:E:170:ARG:HB2	1:E:171:PRO:CD	2.41	0.44
1:F:122:GLN:HG2	1:G:84:ALA:HB1	1.99	0.44
1:F:192:GLU:O	1:F:193:LEU:C	2.59	0.44
2:a:187:ILE:H	2:a:187:ILE:HG13	1.47	0.44
2:b:19:ILE:HG23	2:b:184:LEU:HD21	1.98	0.44
2:b:47:ILE:HD12	2:b:47:ILE:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:d:51:ILE:HG22	2:d:58:ALA:HB1	1.99	0.44
2:d:93:LEU:HA	2:d:93:LEU:HD13	1.50	0.44
2:e:65:LEU:O	2:e:66:ILE:C	2.60	0.44
2:e:197:ASP:O	2:e:200:ILE:HG13	2.17	0.44
1:H:16:PHE:HB3	1:I:24:GLN:OE1	2.16	0.44
1:H:48:VAL:HG12	1:H:49:LEU:N	2.30	0.44
1:J:199:THR:CA	1:J:205:ILE:HD11	2.42	0.44
1:K:24:GLN:O	1:K:25:VAL:C	2.60	0.44
1:M:68:ILE:HD13	1:M:68:ILE:H	1.74	0.44
1:M:110:ILE:HD11	1:M:141:GLY:C	2.41	0.44
1:N:104:TYR:CE1	2:h:88:LEU:HD11	2.53	0.44
2:i:101:PHE:CD1	2:i:102:LEU:N	2.78	0.44
2:j:42:LYS:HD2	2:j:192:VAL:CG1	2.47	0.44
2:j:101:PHE:CD1	2:j:102:LEU:N	2.80	0.44
2:k:94:HIS:CG	2:k:94:HIS:O	2.70	0.44
2:k:196:GLU:O	2:k:198:GLU:N	2.51	0.44
2:l:25:ARG:HE	2:l:32:VAL:HG13	1.83	0.44
2:l:44:ASP:O	2:l:46:TYR:N	2.50	0.44
2:m:60:ALA:O	2:m:64:LEU:HG	2.17	0.44
2:n:61:ILE:HG13	2:n:101:PHE:CZ	2.52	0.44
2:n:93:LEU:HD12	2:n:123:PRO:O	2.17	0.44
1:A:42:ALA:O	1:A:43:CYS:CB	2.65	0.44
1:B:165:ALA:O	1:B:174:MET:SD	2.75	0.44
1:C:29:ARG:O	1:C:30:GLU:C	2.60	0.44
1:C:39:ILE:HG12	1:C:165:ALA:CB	2.44	0.44
1:C:68:ILE:CD1	1:C:211:ASP:HB3	2.48	0.44
1:C:103:THR:O	1:C:104:TYR:CG	2.70	0.44
1:C:134:GLY:C	1:C:135:VAL:HG12	2.42	0.44
1:C:160:GLU:HB3	1:D:64:SER:HB3	1.99	0.44
1:D:129:GLY:O	1:D:130:VAL:HB	2.16	0.44
2:a:63:ARG:C	2:a:65:LEU:N	2.75	0.44
2:b:89:LEU:HD23	2:b:89:LEU:HA	1.80	0.44
2:c:101:PHE:CD1	2:c:102:LEU:N	2.79	0.44
2:c:158:GLU:O	2:c:162:LYS:HG2	2.17	0.44
2:d:19:ILE:HG23	2:d:184:LEU:HD21	1.99	0.44
2:g:23:ASP:C	2:g:25:ARG:H	2.26	0.44
1:H:24:GLN:HE22	1:N:16:PHE:CB	2.30	0.44
1:H:199:THR:O	1:H:200:LYS:C	2.59	0.44
1:I:16:PHE:HB3	1:J:24:GLN:NE2	2.32	0.44
1:K:131:ARG:HG3	1:K:131:ARG:NH1	2.33	0.44
1:K:154:PRO:O	1:K:155:SER:CB	2.63	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:173:VAL:C	1:K:175:GLU:N	2.75	0.44
1:K:228:GLU:OE1	1:K:231:LYS:HD3	2.18	0.44
1:N:80:SER:HB3	1:N:166:ILE:HD12	1.99	0.44
1:N:152:THR:HA	1:N:157:ALA:CB	2.44	0.44
2:h:60:ALA:HB2	2:h:63:ARG:HH22	1.82	0.44
2:i:89:LEU:O	2:i:93:LEU:HD23	2.18	0.44
2:i:169:LYS:HD2	2:i:204:LEU:CD1	2.45	0.44
2:j:55:VAL:O	2:j:59:GLN:HG2	2.18	0.44
2:k:85:CYS:O	2:k:88:LEU:HB2	2.16	0.44
2:k:89:LEU:HD22	2:k:93:LEU:CD2	2.47	0.44
2:m:102:LEU:O	2:m:103:THR:CG2	2.63	0.44
2:n:12:LEU:O	2:n:12:LEU:HG	2.14	0.44
1:C:29:ARG:O	1:C:32:VAL:N	2.49	0.44
1:D:167:GLY:O	1:D:168:SER:C	2.60	0.44
1:D:203:GLU:O	1:D:204:ASP:HB2	2.17	0.44
1:D:215:ILE:HG12	1:D:222:PHE:HB2	2.00	0.44
1:E:119:ASP:OD1	1:F:87:ARG:NE	2.40	0.44
1:E:122:GLN:O	1:E:125:THR:HB	2.18	0.44
1:E:144:LYS:C	1:E:145:ASN:CG	2.85	0.44
1:F:42:ALA:C	1:F:43:CYS:SG	3.00	0.44
1:F:95:LEU:C	1:F:97:ALA:H	2.25	0.44
2:a:168:LEU:O	2:a:172:MET:HG3	2.18	0.44
2:c:34:ASP:C	2:c:36:GLU:H	2.23	0.44
2:c:78:ARG:HB3	2:c:112:LEU:HD11	1.99	0.44
2:d:10:VAL:CG2	2:d:21:ALA:HB3	2.48	0.44
2:d:168:LEU:O	2:d:169:LYS:C	2.59	0.44
2:e:140:SER:OG	2:e:141:PRO:N	2.50	0.44
2:g:8:THR:HB	2:g:178:SER:OG	2.17	0.44
1:I:51:VAL:HG21	1:I:68:ILE:HG23	1.99	0.44
1:I:52:ASP:HB2	1:I:198:LEU:CG	2.47	0.44
1:K:185:ILE:HD12	1:K:185:ILE:C	2.43	0.44
1:K:205:ILE:O	1:K:206:LYS:C	2.59	0.44
1:L:51:VAL:HG11	1:L:67:LYS:CG	2.47	0.44
2:h:25:ARG:NH1	2:h:32:VAL:HG21	2.27	0.44
2:i:45:ASP:O	2:i:192:VAL:HG23	2.17	0.44
2:j:102:LEU:CD2	2:j:103:THR:N	2.75	0.44
2:k:18:VAL:HG23	2:k:116:ALA:HB1	1.99	0.44
2:k:58:ALA:O	2:k:62:VAL:HG23	2.17	0.44
2:k:187:ILE:O	2:k:187:ILE:HD12	2.17	0.44
2:m:133:PHE:HZ	2:m:148:GLU:OE2	2.00	0.44
2:n:158:GLU:HA	2:n:161:ILE:HD11	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:17:SER:HB3	1:A:21:ARG:O	2.17	0.44
1:A:37:THR:HB	1:A:168:SER:HB3	1.99	0.44
1:A:68:ILE:HD11	1:A:211:ASP:HB3	1.98	0.44
1:A:71:ILE:O	1:A:71:ILE:HG22	2.17	0.44
1:B:26:GLU:CG	1:B:29:ARG:HE	2.30	0.44
1:B:68:ILE:CD1	1:B:211:ASP:HB3	2.47	0.44
1:C:192:GLU:HA	1:C:195:ILE:HD12	2.00	0.44
1:C:239:LYS:CE	1:C:240:LYS:HZ1	2.31	0.44
1:D:189:GLU:O	1:D:193:LEU:HD13	2.18	0.44
1:E:17:SER:OG	1:E:21:ARG:O	2.29	0.44
1:E:153:ASP:OD1	1:E:154:PRO:N	2.50	0.44
1:E:181:TYR:CE1	1:E:185:ILE:HG12	2.53	0.44
1:G:48:VAL:HG21	1:G:214:ILE:HG23	1.94	0.44
1:G:218:LYS:O	1:G:219:ASP:HB3	2.17	0.44
2:a:7:THR:HG21	2:a:138:SER:HB3	2.00	0.44
2:d:43:ILE:HD13	2:d:43:ILE:N	2.22	0.44
2:e:140:SER:N	2:e:141:PRO:HD2	2.32	0.44
2:e:165:LEU:O	2:e:168:LEU:N	2.51	0.44
2:e:199:GLU:H	2:e:199:GLU:HG3	1.55	0.44
2:f:122:ASP:C	2:f:122:ASP:OD2	2.60	0.44
2:f:154:ASP:OD2	2:f:154:ASP:N	2.50	0.44
1:I:22:LEU:O	1:I:23:TYR:O	2.35	0.44
1:I:32:VAL:C	1:I:34:ARG:N	2.72	0.44
1:I:120:ILE:O	1:I:121:LYS:C	2.60	0.44
1:I:198:LEU:HD23	1:I:198:LEU:O	2.16	0.44
1:J:36:THR:O	1:J:80:SER:OG	2.32	0.44
1:J:36:THR:HG21	1:J:67:LYS:HE2	1.99	0.44
1:K:90:ILE:HD12	1:K:91:ASP:N	2.33	0.44
1:K:126:GLN:HG3	1:K:127:HIS:ND1	2.33	0.44
1:L:72:ASP:C	1:L:74:HIS:N	2.72	0.44
2:i:106:ILE:HD11	2:i:136:THR:HG22	1.98	0.44
2:i:144:TYR:O	2:i:145:GLY:C	2.61	0.44
2:j:43:ILE:HA	2:j:66:ILE:HG23	1.98	0.44
2:j:82:PRO:O	2:j:85:CYS:HB3	2.18	0.44
2:j:184:LEU:CD2	2:j:185:ALA:N	2.79	0.44
2:j:203:ILE:O	2:j:207:MET:HG3	2.17	0.44
2:l:43:ILE:HG21	2:l:65:LEU:HD22	1.98	0.44
2:n:102:LEU:CA	2:n:123:PRO:HB3	2.47	0.44
1:B:25:VAL:O	1:B:28:ALA:HB3	2.16	0.44
1:B:207:PRO:HB3	1:B:231:LYS:HB2	1.99	0.44
1:C:102:LEU:HD23	1:C:103:THR:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:116:LYS:O	1:C:117:ILE:C	2.60	0.44
1:D:122:GLN:O	1:D:125:THR:HB	2.18	0.44
1:G:25:VAL:O	1:G:28:ALA:HB3	2.16	0.44
2:a:175:ASP:OD2	2:a:175:ASP:C	2.58	0.44
2:a:202:LYS:HG3	2:a:203:ILE:HG12	1.99	0.44
2:b:14:CYS:O	2:b:15:ASP:HB2	2.18	0.44
2:c:7:THR:HA	2:c:39:LYS:HZ2	1.80	0.44
2:d:42:LYS:HE3	2:d:45:ASP:HA	1.99	0.44
2:f:135:ALA:N	2:f:144:TYR:HE1	2.15	0.44
2:g:25:ARG:HH11	2:g:32:VAL:CG2	2.28	0.44
2:g:71:LEU:O	2:g:74:MET:N	2.50	0.44
2:g:121:LEU:HD11	2:g:127:MET:HB2	1.99	0.44
2:g:147:LEU:N	2:g:147:LEU:HD23	2.33	0.44
1:H:72:ASP:HB3	1:H:74:HIS:ND1	2.33	0.44
1:H:231:LYS:HA	1:H:234:ILE:HG22	2.00	0.44
1:K:87:ARG:O	1:K:90:ILE:N	2.50	0.44
1:K:90:ILE:C	1:K:90:ILE:HD12	2.43	0.44
1:L:111:GLU:O	1:L:115:LYS:HG3	2.16	0.44
1:L:151:GLU:O	1:L:159:ILE:HG13	2.18	0.44
1:N:52:ASP:CB	1:N:198:LEU:HD21	2.39	0.44
2:h:102:LEU:C	2:h:102:LEU:HD13	2.43	0.44
2:h:172:MET:CE	2:h:179:GLY:O	2.66	0.44
2:i:8:THR:HA	2:i:137:GLY:HA3	2.00	0.44
2:j:88:LEU:O	2:j:91:ASN:N	2.51	0.44
2:k:107:ILE:CG1	2:k:119:PHE:HB2	2.46	0.44
2:l:22:THR:CG2	2:l:40:LEU:HB2	2.47	0.44
2:n:184:LEU:HD23	2:n:185:ALA:H	1.82	0.44
2:n:201:GLU:O	2:n:202:LYS:C	2.59	0.44
1:D:22:LEU:O	1:D:23:TYR:O	2.35	0.44
1:D:120:ILE:O	1:D:123:ALA:N	2.51	0.44
1:D:144:LYS:C	1:D:146:GLU:H	2.26	0.44
1:F:45:ASP:OD2	1:F:45:ASP:N	2.50	0.44
1:F:90:ILE:CD1	1:F:94:ARG:HD2	2.44	0.44
1:F:121:LYS:HG3	1:F:133:PHE:CD1	2.53	0.44
1:F:241:LEU:C	1:F:242:ASN:ND2	2.76	0.44
1:G:19:GLU:OE1	1:G:19:GLU:N	2.51	0.44
1:G:42:ALA:O	1:G:43:CYS:CB	2.60	0.44
2:a:86:ALA:C	2:a:88:LEU:N	2.75	0.44
2:a:97:ARG:C	2:a:99:PHE:N	2.74	0.44
2:a:140:SER:OG	2:a:141:PRO:HD3	2.18	0.44
2:a:172:MET:CE	2:a:179:GLY:HA2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:140:SER:OG	2:b:141:PRO:N	2.51	0.44
2:c:106:ILE:HA	2:c:119:PHE:O	2.18	0.44
2:c:121:LEU:HD12	2:c:126:GLY:O	2.17	0.44
2:d:151:TYR:HA	2:d:155:MET:SD	2.57	0.44
2:e:17:ALA:CB	2:e:188:THR:HA	2.48	0.44
2:e:23:ASP:O	2:e:23:ASP:CG	2.60	0.44
2:e:26:ALA:HB3	2:e:34:ASP:N	2.32	0.44
2:e:83:LEU:HB3	2:e:119:PHE:CZ	2.52	0.44
2:f:165:LEU:O	2:f:168:LEU:N	2.50	0.44
2:g:165:LEU:HD21	2:g:184:LEU:HD12	1.99	0.44
2:g:197:ASP:O	2:g:200:ILE:HG13	2.18	0.44
1:H:16:PHE:HB3	1:I:24:GLN:NE2	2.33	0.44
1:H:44:LYS:O	1:H:44:LYS:HG2	2.17	0.44
1:H:205:ILE:HD12	1:H:234:ILE:HD11	1.99	0.44
1:I:151:GLU:O	1:I:157:ALA:HB1	2.18	0.44
1:J:22:LEU:O	1:J:23:TYR:O	2.35	0.44
1:J:223:LYS:HG3	1:J:224:LYS:N	2.33	0.44
1:K:18:PRO:O	1:L:27:TYR:CE1	2.70	0.44
1:L:26:GLU:HA	1:L:29:ARG:HG3	1.99	0.44
1:L:184:ASP:O	1:L:185:ILE:C	2.61	0.44
1:M:92:ARG:HD2	1:M:92:ARG:O	2.18	0.44
1:M:233:LEU:C	1:M:235:GLU:H	2.25	0.44
2:h:62:VAL:O	2:h:65:LEU:HB3	2.17	0.44
2:h:107:ILE:CG1	2:h:119:PHE:HB2	2.48	0.44
2:i:104:GLN:O	2:i:105:ILE:CB	2.66	0.44
2:i:197:ASP:O	2:i:198:GLU:C	2.61	0.44
2:i:200:ILE:C	2:i:202:LYS:N	2.76	0.44
2:j:140:SER:N	2:j:141:PRO:CD	2.80	0.44
2:k:63:ARG:HB2	2:k:63:ARG:NH1	2.33	0.44
2:l:184:LEU:HD23	2:l:185:ALA:N	2.32	0.44
2:m:72:TYR:CE2	2:m:80:ILE:HA	2.52	0.44
2:n:10:VAL:HG23	2:n:21:ALA:HB3	1.99	0.44
2:n:137:GLY:O	2:n:140:SER:HB3	2.18	0.44
1:A:224:LYS:HE3	1:A:224:LYS:HB3	1.68	0.44
1:B:239:LYS:O	1:B:240:LYS:HD3	2.17	0.44
1:C:32:VAL:C	1:C:34:ARG:N	2.75	0.44
1:C:176:LEU:C	1:C:178:GLU:N	2.75	0.44
1:F:94:ARG:NH1	2:f:75:ARG:HA	2.33	0.44
2:c:12:LEU:HA	2:c:133:PHE:HA	1.99	0.44
2:c:19:ILE:HA	2:c:186:VAL:HG22	1.99	0.44
2:c:49:MET:HE3	2:c:62:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:57:ASP:OD1	2:c:102:LEU:CD1	2.65	0.44
2:c:102:LEU:HD22	2:c:103:THR:CA	2.47	0.44
2:c:201:GLU:C	2:c:203:ILE:N	2.76	0.44
2:d:197:ASP:O	2:d:198:GLU:C	2.60	0.44
2:e:94:HIS:O	2:e:94:HIS:CG	2.71	0.44
1:H:48:VAL:HG22	1:H:214:ILE:HG23	1.99	0.44
1:H:188:ASP:OD1	1:H:191:LEU:HD13	2.18	0.44
1:H:190:GLY:O	1:H:191:LEU:O	2.36	0.44
1:I:55:ILE:H	1:I:55:ILE:HG13	1.63	0.44
1:I:96:GLU:HG2	1:I:116:LYS:CG	2.47	0.44
1:I:138:LEU:HA	1:I:138:LEU:HD23	1.75	0.44
1:I:161:TYR:CD2	1:J:60:VAL:HG13	2.53	0.44
1:M:85:ASP:O	1:M:135:VAL:HG11	2.18	0.44
2:j:121:LEU:HD11	2:j:127:MET:HE2	1.97	0.44
2:k:167:ALA:O	2:k:170:SER:HB2	2.17	0.44
2:l:102:LEU:HD22	2:l:103:THR:N	2.33	0.44
2:n:185:ALA:HB1	2:n:193:LYS:O	2.17	0.44
1:C:52:ASP:HB2	1:C:198:LEU:HD11	2.00	0.44
1:D:179:LYS:HB2	1:D:180:GLU:OE2	2.18	0.44
1:D:199:THR:OG1	1:D:205:ILE:HD11	2.17	0.44
1:E:103:THR:O	2:f:88:LEU:CD1	2.66	0.44
1:E:118:CYS:SG	1:E:156:GLY:HA2	2.58	0.44
1:F:114:ALA:C	1:F:116:LYS:N	2.76	0.44
1:G:75:VAL:HG21	1:G:110:ILE:HG12	2.00	0.44
2:a:51:ILE:CG2	2:a:58:ALA:HB1	2.47	0.44
2:a:103:THR:HG23	2:a:104:GLN:O	2.18	0.44
2:b:7:THR:N	2:b:23:ASP:OD1	2.51	0.44
2:b:161:ILE:HD13	2:b:203:ILE:HD13	1.99	0.44
2:c:198:GLU:HG3	2:c:199:GLU:N	2.33	0.44
2:d:40:LEU:HD12	2:d:49:MET:O	2.18	0.44
2:d:44:ASP:C	2:d:46:TYR:N	2.74	0.44
2:e:17:ALA:HB2	2:e:188:THR:HA	1.99	0.44
2:e:65:LEU:CD1	2:e:89:LEU:HD11	2.48	0.44
1:H:18:PRO:O	1:I:27:TYR:CE1	2.70	0.44
1:H:190:GLY:O	1:H:191:LEU:C	2.60	0.44
1:I:51:VAL:HG11	1:I:67:LYS:HG3	1.99	0.44
1:I:177:LEU:O	1:I:179:LYS:N	2.51	0.44
1:J:65:ILE:O	1:J:65:ILE:CG1	2.66	0.44
1:J:95:LEU:HA	1:J:95:LEU:HD12	1.76	0.44
1:K:68:ILE:HD11	1:K:211:ASP:OD2	2.18	0.44
1:L:93:ALA:CB	1:L:117:ILE:HG21	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:102:LEU:HD12	2:l:64:LEU:HA	1.99	0.44
1:L:146:GLU:HG3	1:L:148:ARG:HG3	2.00	0.44
1:L:170:ARG:CB	1:L:171:PRO:HD3	2.47	0.44
1:L:173:VAL:O	1:L:175:GLU:N	2.51	0.44
1:L:225:ILE:HG23	1:L:229:GLU:HB2	2.00	0.44
1:L:233:LEU:C	1:L:235:GLU:N	2.74	0.44
1:M:68:ILE:HD11	1:M:211:ASP:HB3	2.00	0.44
1:M:198:LEU:HD23	1:M:198:LEU:C	2.43	0.44
1:N:100:TYR:CD2	1:N:100:TYR:C	2.96	0.44
1:N:104:TYR:O	2:h:87:THR:HB	2.18	0.44
2:i:102:LEU:O	2:i:102:LEU:HD13	2.18	0.44
2:i:158:GLU:C	2:i:160:GLY:H	2.25	0.44
2:i:165:LEU:HD21	2:i:184:LEU:HD12	2.00	0.44
2:j:97:ARG:CB	2:j:124:LEU:HD21	2.48	0.44
2:l:69:ALA:C	2:l:71:LEU:N	2.66	0.44
2:m:93:LEU:HD12	2:m:123:PRO:O	2.17	0.44
2:m:103:THR:N	2:m:123:PRO:HB3	2.32	0.44
2:m:110:TYR:CE2	2:m:189:LYS:HB3	2.53	0.44
2:m:184:LEU:HD23	2:m:185:ALA:N	2.32	0.44
2:n:16:ASP:C	2:n:189:LYS:HZ1	2.25	0.44
2:n:89:LEU:HD13	2:n:121:LEU:HD23	1.99	0.44
1:A:181:TYR:CE1	1:A:185:ILE:HG12	2.53	0.43
1:A:239:LYS:HG3	1:A:240:LYS:CE	2.45	0.43
1:B:17:SER:HB3	1:B:22:LEU:HA	1.99	0.43
1:C:100:TYR:C	1:C:102:LEU:N	2.75	0.43
1:C:137:LEU:O	1:C:151:GLU:HA	2.18	0.43
1:C:238:LYS:N	1:C:238:LYS:CD	2.79	0.43
1:D:93:ALA:C	1:D:95:LEU:H	2.26	0.43
1:D:122:GLN:C	1:D:122:GLN:CD	2.85	0.43
1:D:206:LYS:HB2	1:D:209:ASN:HB2	2.00	0.43
1:E:141:GLY:O	1:E:142:ILE:HD13	2.18	0.43
1:E:173:VAL:O	1:E:176:LEU:N	2.51	0.43
1:F:177:LEU:H	1:F:177:LEU:HD12	1.82	0.43
1:F:229:GLU:OE1	1:F:229:GLU:HA	2.18	0.43
1:G:153:ASP:H	1:G:157:ALA:HB2	1.83	0.43
2:b:121:LEU:HD12	2:b:126:GLY:O	2.18	0.43
2:b:187:ILE:HG22	2:b:192:VAL:CG2	2.35	0.43
2:d:50:THR:O	2:d:105:ILE:HA	2.18	0.43
2:d:93:LEU:O	2:d:95:SER:N	2.51	0.43
2:e:46:TYR:CD2	2:e:46:TYR:N	2.86	0.43
2:e:69:ALA:HA	2:e:80:ILE:HG12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e:121:LEU:HD12	2:e:121:LEU:HA	1.86	0.43
2:e:135:ALA:N	2:e:144:TYR:CE1	2.74	0.43
2:f:61:ILE:HG13	2:f:101:PHE:HZ	1.83	0.43
2:f:122:ASP:O	2:f:125:GLY:N	2.50	0.43
2:f:197:ASP:O	2:f:198:GLU:C	2.61	0.43
1:H:127:HIS:O	1:H:128:GLY:C	2.61	0.43
1:I:228:GLU:CD	1:I:231:LYS:HD3	2.43	0.43
1:J:152:THR:HA	1:J:157:ALA:CB	2.45	0.43
1:J:233:LEU:C	1:J:235:GLU:H	2.25	0.43
1:J:242:ASN:O	1:J:243:GLU:HG2	2.18	0.43
1:K:207:PRO:CB	1:K:231:LYS:HB2	2.48	0.43
1:L:159:ILE:HG22	1:M:60:VAL:HG11	1.98	0.43
1:M:192:GLU:O	1:M:193:LEU:C	2.61	0.43
1:N:52:ASP:CB	1:N:198:LEU:HD11	2.45	0.43
2:i:121:LEU:HD11	2:i:127:MET:HE3	1.99	0.43
2:i:197:ASP:HA	2:i:200:ILE:CD1	2.47	0.43
2:j:204:LEU:HD12	2:j:207:MET:SD	2.59	0.43
2:k:155:MET:O	2:k:156:SER:O	2.36	0.43
2:l:142:ILE:CD1	2:l:174:ARG:O	2.66	0.43
2:m:23:ASP:O	2:m:25:ARG:N	2.50	0.43
2:n:83:LEU:HB3	2:n:119:PHE:CZ	2.50	0.43
2:n:142:ILE:HB	2:n:171:ALA:HB2	1.99	0.43
1:A:68:ILE:HD11	1:A:211:ASP:CB	2.48	0.43
1:A:72:ASP:C	1:A:74:HIS:H	2.26	0.43
1:A:82:LEU:H	1:A:82:LEU:HD22	1.83	0.43
1:A:199:THR:HA	1:A:205:ILE:CD1	2.33	0.43
1:C:23:TYR:O	1:C:24:GLN:C	2.60	0.43
1:C:48:VAL:HG22	1:C:214:ILE:HA	2.00	0.43
1:D:106:GLU:OE2	2:e:81:PRO:HG2	2.18	0.43
1:F:89:LEU:HD21	1:F:133:PHE:CD1	2.53	0.43
1:G:22:LEU:O	1:G:23:TYR:C	2.60	0.43
1:G:23:TYR:O	1:G:24:GLN:C	2.61	0.43
1:G:106:GLU:OE2	2:a:81:PRO:HG2	2.18	0.43
1:G:165:ALA:O	1:G:174:MET:SD	2.76	0.43
2:a:19:ILE:HG23	2:a:186:VAL:HG22	1.99	0.43
2:a:97:ARG:CG	2:a:98:MET:H	2.24	0.43
2:c:187:ILE:H	2:c:187:ILE:HG13	1.52	0.43
2:e:146:VAL:HG21	2:e:167:ALA:HA	2.00	0.43
2:f:46:TYR:O	2:f:110:TYR:N	2.51	0.43
1:H:16:PHE:HB3	1:I:24:GLN:HE22	1.83	0.43
1:H:22:LEU:C	1:H:22:LEU:CD2	2.90	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:100:TYR:CD2	1:J:108:ILE:HB	2.53	0.43
1:J:227:VAL:O	1:J:228:GLU:HB2	2.19	0.43
1:K:22:LEU:HD23	1:K:22:LEU:C	2.42	0.43
1:K:95:LEU:O	1:K:97:ALA:N	2.51	0.43
1:K:178:GLU:HA	1:L:59:LEU:HD11	2.00	0.43
1:K:202:ASN:C	1:K:202:ASN:OD1	2.60	0.43
1:M:15:VAL:HG21	1:M:24:GLN:N	2.30	0.43
1:M:80:SER:HB3	1:M:166:ILE:HD12	2.00	0.43
1:N:22:LEU:HD23	1:N:22:LEU:C	2.42	0.43
2:j:161:ILE:HD12	2:j:162:LYS:HG2	2.01	0.43
2:k:161:ILE:H	2:k:161:ILE:HG13	1.54	0.43
2:l:65:LEU:O	2:l:66:ILE:C	2.61	0.43
2:m:82:PRO:O	2:m:84:ALA:N	2.51	0.43
2:m:172:MET:CE	2:m:179:GLY:HA2	2.49	0.43
2:m:182:ILE:HG12	2:m:183:SER:N	2.32	0.43
2:m:203:ILE:O	2:m:207:MET:HG3	2.18	0.43
2:n:82:PRO:C	2:n:84:ALA:N	2.76	0.43
1:A:102:LEU:HD12	2:a:64:LEU:HA	1.99	0.43
1:B:222:PHE:CD1	1:B:222:PHE:C	2.96	0.43
1:E:53:ARG:HG2	1:E:65:ILE:HG12	2.00	0.43
1:G:197:ALA:O	1:G:200:LYS:HB3	2.18	0.43
2:a:107:ILE:CG1	2:a:119:PHE:HB2	2.48	0.43
2:b:7:THR:HG22	2:b:138:SER:H	1.83	0.43
2:b:65:LEU:O	2:b:66:ILE:C	2.60	0.43
2:b:200:ILE:O	2:b:201:GLU:C	2.62	0.43
2:c:151:TYR:HA	2:c:155:MET:SD	2.58	0.43
2:e:168:LEU:O	2:e:172:MET:HB2	2.18	0.43
2:e:185:ALA:HB1	2:e:193:LYS:O	2.19	0.43
1:I:66:GLU:CD	1:I:69:PHE:HE1	2.26	0.43
1:I:126:GLN:NE2	1:J:124:TYR:HE1	2.14	0.43
1:I:177:LEU:H	1:I:177:LEU:CD1	2.31	0.43
1:J:109:SER:CB	2:k:78:ARG:HH22	2.25	0.43
1:M:102:LEU:HD11	2:m:64:LEU:CD2	2.49	0.43
1:M:155:SER:O	1:N:84:ALA:HB2	2.18	0.43
1:N:37:THR:HA	1:N:166:ILE:O	2.18	0.43
2:i:202:LYS:CG	2:i:203:ILE:N	2.61	0.43
2:j:102:LEU:O	2:j:103:THR:CB	2.67	0.43
2:j:121:LEU:HD11	2:j:127:MET:HB2	2.00	0.43
2:k:102:LEU:CA	2:k:123:PRO:HB3	2.46	0.43
2:k:151:TYR:CD1	2:k:155:MET:SD	3.11	0.43
2:k:175:ASP:OD1	2:k:178:SER:OG	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:n:25:ARG:HH11	2:n:32:VAL:HG21	1.83	0.43
2:n:97:ARG:C	2:n:99:PHE:H	2.25	0.43
2:n:143:ALA:HB1	2:n:167:ALA:HB1	2.00	0.43
2:n:161:ILE:H	2:n:161:ILE:HG13	1.69	0.43
2:n:182:ILE:HG12	2:n:183:SER:N	2.33	0.43
1:B:26:GLU:O	1:B:29:ARG:N	2.51	0.43
1:B:113:LEU:O	1:B:114:ALA:C	2.59	0.43
1:B:126:GLN:HB2	1:C:131:ARG:CG	2.49	0.43
1:C:68:ILE:N	1:C:68:ILE:CD1	2.81	0.43
1:C:173:VAL:O	1:C:175:GLU:N	2.51	0.43
1:C:227:VAL:HG12	1:C:228:GLU:N	2.34	0.43
1:D:45:ASP:OD2	1:D:45:ASP:N	2.50	0.43
1:E:68:ILE:HD13	1:E:68:ILE:H	1.79	0.43
1:E:70:GLN:C	1:E:71:ILE:HD13	2.44	0.43
1:E:242:ASN:O	1:E:244:GLU:HG3	2.18	0.43
1:G:24:GLN:HA	1:G:27:TYR:HD2	1.83	0.43
1:G:112:MET:HE3	1:G:112:MET:CA	2.48	0.43
2:b:101:PHE:HA	2:c:97:ARG:HH22	1.83	0.43
2:b:110:TYR:CE1	2:b:189:LYS:HE2	2.53	0.43
2:f:97:ARG:C	2:f:99:PHE:N	2.75	0.43
2:g:164:ALA:O	2:g:165:LEU:C	2.61	0.43
1:H:208:GLU:C	1:H:210:VAL:H	2.26	0.43
1:I:30:GLU:O	1:I:31:ALA:C	2.60	0.43
1:I:90:ILE:O	1:I:93:ALA:N	2.51	0.43
1:J:48:VAL:HG12	1:J:49:LEU:N	2.33	0.43
1:J:72:ASP:HB3	1:J:74:HIS:CE1	2.54	0.43
1:K:102:LEU:CD1	2:k:64:LEU:HA	2.49	0.43
1:N:135:VAL:HG23	1:N:136:SER:O	2.18	0.43
2:h:164:ALA:O	2:h:165:LEU:C	2.59	0.43
2:i:8:THR:HG21	2:i:178:SER:HB3	2.00	0.43
2:i:97:ARG:CG	2:i:98:MET:H	2.21	0.43
2:k:10:VAL:CG1	2:k:135:ALA:HB2	2.48	0.43
2:l:168:LEU:HD13	2:l:182:ILE:CD1	2.48	0.43
2:n:76:THR:O	2:n:78:ARG:N	2.52	0.43
1:B:197:ALA:O	1:B:200:LYS:N	2.50	0.43
1:C:32:VAL:C	1:C:34:ARG:H	2.27	0.43
1:C:182:ARG:C	1:C:184:ASP:N	2.73	0.43
1:D:42:ALA:O	1:D:43:CYS:CB	2.67	0.43
1:D:74:HIS:O	1:D:75:VAL:CG2	2.67	0.43
1:D:164:THR:OG1	1:D:165:ALA:N	2.52	0.43
1:D:166:ILE:HA	1:D:170:ARG:HD3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:198:LEU:O	1:D:198:LEU:HD23	2.19	0.43
1:E:87:ARG:O	1:E:90:ILE:N	2.41	0.43
1:F:37:THR:HB	1:F:169:GLY:H	1.84	0.43
1:F:120:ILE:O	1:F:121:LYS:C	2.62	0.43
1:G:55:ILE:HD12	1:G:209:ASN:OD1	2.17	0.43
1:G:161:TYR:CG	1:G:164:THR:HB	2.54	0.43
2:a:71:LEU:O	2:a:72:TYR:C	2.62	0.43
2:a:156:SER:HG	2:a:159:GLU:H	1.60	0.43
2:c:34:ASP:C	2:c:36:GLU:N	2.75	0.43
2:c:88:LEU:O	2:c:91:ASN:N	2.51	0.43
2:e:63:ARG:C	2:e:65:LEU:H	2.27	0.43
2:e:162:LYS:O	2:e:163:LEU:C	2.62	0.43
2:g:196:GLU:O	2:g:197:ASP:C	2.61	0.43
1:H:150:PHE:CE1	1:H:160:GLU:HB2	2.53	0.43
1:H:195:ILE:HD13	1:H:233:LEU:HB3	2.00	0.43
1:H:198:LEU:HD23	1:H:198:LEU:C	2.43	0.43
1:I:126:GLN:O	1:J:130:VAL:HG23	2.17	0.43
1:J:40:GLY:O	1:J:41:ILE:HG13	2.19	0.43
1:K:36:THR:OG1	1:K:67:LYS:HE2	2.19	0.43
1:M:52:ASP:HB2	1:M:198:LEU:HD21	2.00	0.43
1:N:100:TYR:CE2	1:N:108:ILE:HA	2.53	0.43
1:N:223:LYS:HG3	1:N:224:LYS:N	2.33	0.43
2:h:140:SER:OG	2:h:141:PRO:HD3	2.18	0.43
2:h:140:SER:O	2:h:143:ALA:N	2.51	0.43
2:h:142:ILE:O	2:h:143:ALA:C	2.61	0.43
2:i:7:THR:HG22	2:i:138:SER:H	1.84	0.43
2:i:16:ASP:C	2:i:189:LYS:HZ1	2.26	0.43
2:i:135:ALA:N	2:i:144:TYR:HE1	2.16	0.43
2:j:143:ALA:HB1	2:j:167:ALA:HB1	2.00	0.43
2:k:28:LEU:HA	2:k:28:LEU:HD12	1.76	0.43
2:k:60:ALA:HA	2:k:63:ARG:NH2	2.34	0.43
2:l:82:PRO:C	2:l:84:ALA:N	2.75	0.43
1:C:70:GLN:HA	1:C:76:ALA:CB	2.48	0.43
1:C:186:THR:HG23	1:C:189:GLU:OE2	2.19	0.43
1:C:221:GLN:HG2	1:C:222:PHE:H	1.84	0.43
1:D:92:ARG:HG2	1:D:92:ARG:HH21	1.83	0.43
1:E:158:LEU:HD12	1:F:83:VAL:HG11	2.01	0.43
1:G:82:LEU:HD22	1:G:134:GLY:O	2.19	0.43
1:G:227:VAL:HA	1:G:230:ILE:HD12	2.00	0.43
2:a:188:THR:HG23	2:a:190:ASP:OD1	2.18	0.43
2:b:197:ASP:HA	2:b:200:ILE:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:104:GLN:O	2:c:105:ILE:CG1	2.63	0.43
2:c:164:ALA:O	2:c:165:LEU:C	2.59	0.43
2:d:24:LYS:HE2	2:d:183:SER:CB	2.26	0.43
2:e:63:ARG:HB2	2:e:63:ARG:HH11	1.82	0.43
2:e:71:LEU:HD21	2:e:75:ARG:NH1	2.33	0.43
2:g:28:LEU:HD12	2:g:28:LEU:HA	1.87	0.43
1:H:45:ASP:HA	1:H:218:LYS:HE2	1.99	0.43
1:H:72:ASP:C	1:H:74:HIS:N	2.76	0.43
1:I:114:ALA:C	1:I:116:LYS:N	2.76	0.43
1:I:144:LYS:C	1:I:146:GLU:H	2.26	0.43
1:J:90:ILE:O	1:J:92:ARG:N	2.50	0.43
1:J:190:GLY:O	1:J:191:LEU:O	2.36	0.43
1:J:239:LYS:HE3	1:J:240:LYS:HE2	2.01	0.43
1:K:82:LEU:CD2	1:K:85:ASP:HB2	2.49	0.43
1:K:92:ARG:HD2	1:K:92:ARG:C	2.44	0.43
1:K:98:GLN:OE1	1:K:98:GLN:HA	2.16	0.43
1:K:188:ASP:O	1:K:191:LEU:HB3	2.19	0.43
1:L:242:ASN:O	1:L:243:GLU:HG2	2.19	0.43
1:N:43:CYS:SG	1:N:44:LYS:N	2.91	0.43
1:N:95:LEU:O	1:N:97:ALA:N	2.51	0.43
2:h:21:ALA:CB	2:h:168:LEU:HD11	2.48	0.43
2:h:140:SER:OG	2:h:141:PRO:N	2.51	0.43
2:i:97:ARG:C	2:i:99:PHE:H	2.26	0.43
2:j:7:THR:HA	2:j:39:LYS:HZ2	1.84	0.43
2:j:76:THR:O	2:j:78:ARG:N	2.52	0.43
2:k:121:LEU:HD12	2:k:121:LEU:HA	1.76	0.43
2:l:88:LEU:HD12	2:l:88:LEU:HA	1.59	0.43
2:m:7:THR:HB	2:m:138:SER:HB3	2.00	0.43
2:m:7:THR:HA	2:m:39:LYS:NZ	2.33	0.43
2:m:72:TYR:CD2	2:m:80:ILE:HG13	2.53	0.43
2:m:132:THR:HB	2:m:133:PHE:CD1	2.53	0.43
2:m:197:ASP:O	2:m:198:GLU:C	2.61	0.43
1:A:130:VAL:O	1:A:130:VAL:HG13	2.18	0.43
1:A:215:ILE:HG12	1:A:222:PHE:HA	2.01	0.43
1:B:133:PHE:O	1:B:154:PRO:HB3	2.19	0.43
1:B:137:LEU:HB2	1:B:152:THR:OG1	2.19	0.43
1:D:18:PRO:O	1:D:19:GLU:CB	2.67	0.43
1:D:53:ARG:HB2	1:D:209:ASN:O	2.19	0.43
1:D:80:SER:HB3	1:D:166:ILE:HD12	1.99	0.43
1:E:17:SER:O	1:F:27:TYR:HB3	2.18	0.43
1:E:116:LYS:O	1:E:119:ASP:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:191:LEU:O	1:F:195:ILE:HG13	2.18	0.43
1:F:233:LEU:C	1:F:235:GLU:H	2.26	0.43
1:G:61:LYS:HE2	1:G:63:ARG:CG	2.49	0.43
1:G:161:TYR:HB3	1:G:163:ALA:H	1.84	0.43
1:G:190:GLY:HA2	1:G:193:LEU:HB2	2.01	0.43
1:G:219:ASP:O	1:G:220:ALA:C	2.60	0.43
2:b:7:THR:CA	2:b:39:LYS:HE3	2.49	0.43
2:b:102:LEU:O	2:b:103:THR:CB	2.66	0.43
2:c:107:ILE:CG1	2:c:119:PHE:HB2	2.49	0.43
2:d:42:LYS:CE	2:d:45:ASP:HA	2.49	0.43
2:e:18:VAL:HG23	2:e:116:ALA:HB1	2.01	0.43
2:e:43:ILE:HG22	2:e:66:ILE:HG12	1.99	0.43
2:f:93:LEU:HD13	2:f:93:LEU:HA	1.54	0.43
2:f:184:LEU:CD2	2:f:185:ALA:N	2.82	0.43
2:f:200:ILE:O	2:f:201:GLU:C	2.61	0.43
1:H:51:VAL:HG21	1:H:68:ILE:HG23	2.00	0.43
1:J:29:ARG:O	1:J:30:GLU:C	2.62	0.43
1:J:32:VAL:HG11	1:J:170:ARG:HH21	1.84	0.43
1:J:66:GLU:HB3	1:J:69:PHE:CZ	2.54	0.43
1:J:120:ILE:O	1:J:121:LYS:C	2.61	0.43
1:K:56:THR:OG1	1:K:57:SER:N	2.51	0.43
1:K:123:ALA:C	1:K:125:THR:N	2.75	0.43
1:L:48:VAL:CG2	1:L:214:ILE:HG23	2.49	0.43
1:L:177:LEU:O	1:L:179:LYS:N	2.52	0.43
1:M:89:LEU:HD11	1:M:133:PHE:CD1	2.53	0.43
1:N:173:VAL:O	1:N:177:LEU:HD13	2.19	0.43
2:j:7:THR:N	2:j:23:ASP:OD1	2.51	0.43
2:j:63:ARG:C	2:j:65:LEU:N	2.76	0.43
2:j:198:GLU:HG3	2:j:199:GLU:N	2.34	0.43
2:k:158:GLU:C	2:k:160:GLY:N	2.76	0.43
2:k:171:ALA:O	2:k:175:ASP:HB3	2.19	0.43
2:m:18:VAL:CG2	2:m:116:ALA:HB1	2.48	0.43
2:m:19:ILE:HA	2:m:186:VAL:HG22	1.99	0.43
2:m:135:ALA:HB3	2:m:144:TYR:CE1	2.54	0.43
1:D:42:ALA:C	1:D:43:CYS:SG	3.02	0.43
1:D:75:VAL:HG21	1:D:110:ILE:HG12	2.00	0.43
1:D:239:LYS:HE3	1:D:240:LYS:HE2	2.01	0.43
1:E:22:LEU:HD22	1:E:25:VAL:CG2	2.45	0.43
1:E:214:ILE:CD1	1:E:225:ILE:HG13	2.41	0.43
1:F:152:THR:HA	1:F:157:ALA:HB3	2.00	0.43
1:G:74:HIS:CD2	1:G:75:VAL:HG23	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:92:ARG:HG2	1:G:92:ARG:NH2	2.34	0.43
2:a:110:TYR:CZ	2:a:189:LYS:HD3	2.54	0.43
2:b:62:VAL:O	2:b:66:ILE:HG13	2.19	0.43
2:c:88:LEU:O	2:c:92:ILE:N	2.40	0.43
2:e:43:ILE:HD11	2:e:47:ILE:CB	2.48	0.43
2:g:35:LYS:O	2:g:35:LYS:HG2	2.18	0.43
2:g:199:GLU:O	2:g:200:ILE:C	2.62	0.43
1:H:27:TYR:HD1	1:N:18:PRO:O	2.02	0.43
1:H:61:LYS:C	1:H:63:ARG:H	2.26	0.43
1:H:131:ARG:CG	1:N:126:GLN:HB2	2.48	0.43
1:I:42:ALA:O	1:I:43:CYS:HB3	2.17	0.43
1:J:117:ILE:HA	1:J:120:ILE:HD12	2.00	0.43
1:J:177:LEU:C	1:J:179:LYS:N	2.77	0.43
1:J:223:LYS:HG3	1:J:224:LYS:H	1.84	0.43
1:K:233:LEU:C	1:K:235:GLU:H	2.26	0.43
1:L:104:TYR:O	2:m:87:THR:HB	2.19	0.43
1:L:115:LYS:HE2	1:L:158:LEU:CD2	2.49	0.43
1:M:96:GLU:OE2	1:M:116:LYS:HE2	2.18	0.43
1:M:114:ALA:O	1:M:116:LYS:N	2.52	0.43
1:N:192:GLU:O	1:N:193:LEU:C	2.61	0.43
2:h:8:THR:O	2:h:8:THR:CG2	2.67	0.43
2:i:111:ASP:O	2:i:112:LEU:C	2.61	0.43
2:i:161:ILE:O	2:i:165:LEU:HG	2.18	0.43
2:k:169:LYS:HZ3	2:k:204:LEU:HD11	1.84	0.43
2:n:72:TYR:O	2:n:76:THR:HG22	2.18	0.43
1:A:173:VAL:O	1:A:175:GLU:N	2.52	0.43
1:B:67:LYS:HD2	1:B:67:LYS:HA	1.76	0.43
1:C:213:CYS:SG	1:C:224:LYS:HD2	2.58	0.43
1:C:235:GLU:O	1:C:237:VAL:N	2.52	0.43
1:E:95:LEU:C	1:E:97:ALA:H	2.26	0.43
1:F:29:ARG:NH1	1:F:153:ASP:OD2	2.51	0.43
1:F:190:GLY:HA2	1:F:193:LEU:HB2	2.01	0.43
2:a:10:VAL:HG12	2:a:135:ALA:HB2	2.00	0.43
2:b:196:GLU:O	2:b:198:GLU:N	2.52	0.43
2:d:47:ILE:HD12	2:d:47:ILE:N	2.33	0.43
2:d:156:SER:C	2:d:158:GLU:N	2.77	0.43
2:f:76:THR:O	2:f:76:THR:HG23	2.18	0.43
2:f:83:LEU:HB3	2:f:119:PHE:CZ	2.52	0.43
2:f:121:LEU:HD11	2:f:127:MET:CE	2.48	0.43
2:g:194:ILE:H	2:g:194:ILE:HG13	1.52	0.43
1:H:210:VAL:CG2	1:H:230:ILE:HG21	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:182:ARG:C	1:I:184:ASP:N	2.74	0.43
1:J:182:ARG:O	1:J:184:ASP:N	2.52	0.43
1:K:61:LYS:HG2	1:K:63:ARG:HG2	1.99	0.43
1:L:69:PHE:CD2	1:L:90:ILE:HG21	2.54	0.43
1:L:187:LEU:O	1:L:191:LEU:N	2.52	0.43
1:M:43:CYS:SG	1:M:44:LYS:N	2.91	0.43
1:M:95:LEU:C	1:M:97:ALA:N	2.74	0.43
1:M:104:TYR:CE1	2:n:88:LEU:HD11	2.54	0.43
1:M:157:ALA:HB1	1:M:159:ILE:HD11	2.01	0.43
1:M:210:VAL:CG2	1:M:230:ILE:HG21	2.48	0.43
1:N:70:GLN:HA	1:N:76:ALA:CB	2.49	0.43
2:h:51:ILE:HG21	2:h:58:ALA:HB1	2.00	0.43
2:h:61:ILE:O	2:h:65:LEU:HB2	2.18	0.43
2:i:14:CYS:O	2:i:15:ASP:HB2	2.19	0.43
2:i:135:ALA:O	2:i:144:TYR:CE1	2.71	0.43
2:j:12:LEU:CD1	2:j:163:LEU:HD23	2.49	0.43
2:k:92:ILE:O	2:k:92:ILE:HG22	2.18	0.43
2:k:155:MET:HE1	2:k:163:LEU:HD22	2.01	0.43
2:l:122:ASP:OD2	2:l:122:ASP:C	2.61	0.43
2:m:12:LEU:N	2:m:12:LEU:HD23	2.34	0.43
1:A:51:VAL:O	1:A:210:VAL:HA	2.18	0.43
1:A:84:ALA:HB1	1:G:122:GLN:HG3	2.00	0.43
1:A:90:ILE:HG13	1:A:91:ASP:N	2.34	0.43
1:C:221:GLN:NE2	1:C:222:PHE:O	2.52	0.43
1:D:217:VAL:HG13	1:D:218:LYS:HD3	2.00	0.43
1:G:151:GLU:O	1:G:159:ILE:HG13	2.19	0.43
2:a:82:PRO:C	2:a:84:ALA:N	2.77	0.43
2:b:88:LEU:O	2:b:91:ASN:N	2.52	0.43
2:b:194:ILE:H	2:b:194:ILE:HG13	1.53	0.43
2:b:202:LYS:HG3	2:b:203:ILE:HG13	2.01	0.43
2:c:25:ARG:HB2	2:c:180:ASN:HB3	2.00	0.43
2:d:102:LEU:CD2	2:d:103:THR:N	2.80	0.43
2:d:144:TYR:O	2:d:145:GLY:C	2.60	0.43
2:f:50:THR:O	2:f:105:ILE:HA	2.19	0.43
2:g:62:VAL:O	2:g:66:ILE:HG13	2.19	0.43
2:g:76:THR:O	2:g:78:ARG:N	2.52	0.43
1:H:82:LEU:N	1:H:82:LEU:HD22	2.33	0.43
1:I:16:PHE:CD1	1:I:17:SER:N	2.86	0.43
1:I:126:GLN:NE2	1:J:124:TYR:CE1	2.87	0.43
1:J:61:LYS:HG2	1:J:63:ARG:HG2	2.01	0.43
1:J:159:ILE:HB	1:J:161:TYR:CE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:234:ILE:O	1:J:234:ILE:HG23	2.18	0.43
1:K:18:PRO:HA	1:L:27:TYR:CD1	2.53	0.43
1:K:184:ASP:O	1:K:185:ILE:C	2.62	0.43
1:K:207:PRO:HB2	1:K:231:LYS:HB2	2.01	0.43
1:M:42:ALA:O	1:M:43:CYS:CB	2.67	0.43
2:h:24:LYS:CE	2:h:183:SER:HB2	2.36	0.43
2:h:102:LEU:O	2:h:103:THR:CB	2.62	0.43
2:l:58:ALA:O	2:l:61:ILE:N	2.52	0.43
2:m:147:LEU:C	2:m:149:ALA:N	2.76	0.43
1:A:213:CYS:SG	1:A:222:PHE:CZ	3.11	0.42
1:C:95:LEU:C	1:C:97:ALA:N	2.75	0.42
1:C:125:THR:HG22	1:D:131:ARG:NE	2.30	0.42
1:F:126:GLN:HG3	1:F:127:HIS:CE1	2.54	0.42
1:F:214:ILE:CD1	1:F:225:ILE:HG13	2.47	0.42
1:G:214:ILE:HD11	1:G:225:ILE:HG13	2.00	0.42
2:d:7:THR:HA	2:d:39:LYS:HZ1	1.82	0.42
2:d:142:ILE:HD13	2:d:171:ALA:HA	2.00	0.42
2:d:200:ILE:O	2:d:203:ILE:HG13	2.19	0.42
2:e:45:ASP:C	2:e:46:TYR:CD2	2.96	0.42
2:e:54:SER:O	2:e:57:ASP:HB2	2.19	0.42
2:f:69:ALA:C	2:f:80:ILE:HD11	2.43	0.42
2:g:71:LEU:CD2	2:g:75:ARG:HH11	2.32	0.42
2:g:93:LEU:HB3	2:g:124:LEU:O	2.19	0.42
2:g:121:LEU:HD12	2:g:121:LEU:HA	1.60	0.42
1:H:64:SER:O	1:H:66:GLU:N	2.51	0.42
1:I:203:GLU:O	1:I:204:ASP:CB	2.63	0.42
1:J:32:VAL:O	1:J:33:ARG:C	2.60	0.42
1:J:181:TYR:CG	1:J:182:ARG:N	2.87	0.42
1:K:170:ARG:CB	1:K:171:PRO:HD3	2.41	0.42
1:K:206:LYS:CB	1:K:209:ASN:HB2	2.49	0.42
1:L:38:ALA:O	1:L:165:ALA:HA	2.18	0.42
1:L:198:LEU:HD23	1:L:198:LEU:C	2.43	0.42
1:M:56:THR:OG1	1:M:57:SER:N	2.52	0.42
1:M:181:TYR:CE1	1:M:185:ILE:HG12	2.54	0.42
2:h:199:GLU:O	2:h:200:ILE:O	2.37	0.42
2:i:197:ASP:O	2:i:200:ILE:N	2.52	0.42
2:l:81:PRO:O	2:l:84:ALA:HB3	2.19	0.42
2:l:161:ILE:HG13	2:l:161:ILE:H	1.54	0.42
2:n:76:THR:O	2:n:76:THR:OG1	2.35	0.42
2:n:158:GLU:C	2:n:160:GLY:H	2.27	0.42
2:n:201:GLU:O	2:n:203:ILE:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:98:GLN:HB3	2:a:67:ALA:HB1	2.01	0.42
1:A:190:GLY:O	1:A:191:LEU:C	2.63	0.42
1:A:213:CYS:C	1:A:214:ILE:HD12	2.44	0.42
1:B:15:VAL:HG23	1:B:22:LEU:HD21	2.01	0.42
1:B:102:LEU:HD23	1:B:103:THR:N	2.34	0.42
1:B:126:GLN:HB2	1:C:131:ARG:HG3	2.01	0.42
1:C:30:GLU:HA	1:C:33:ARG:NH1	2.33	0.42
1:C:47:VAL:HG21	1:C:140:ALA:HB1	2.00	0.42
1:D:36:THR:HA	1:D:54:ARG:HH12	1.83	0.42
1:E:158:LEU:HD13	1:F:66:GLU:HB2	2.00	0.42
1:E:171:PRO:O	1:E:172:VAL:C	2.62	0.42
1:F:32:VAL:O	1:F:34:ARG:N	2.52	0.42
1:G:187:LEU:CD1	1:G:216:THR:HG22	2.49	0.42
2:b:22:THR:CG2	2:b:40:LEU:HB2	2.50	0.42
2:b:23:ASP:O	2:b:39:LYS:HD2	2.19	0.42
2:c:107:ILE:H	2:c:107:ILE:HG12	1.69	0.42
2:e:155:MET:HE3	2:e:159:GLU:O	2.19	0.42
2:f:66:ILE:O	2:f:66:ILE:HG22	2.18	0.42
1:H:189:GLU:O	1:H:193:LEU:HD13	2.19	0.42
1:H:242:ASN:O	1:H:243:GLU:HG2	2.19	0.42
1:J:36:THR:CG2	1:J:67:LYS:HE2	2.49	0.42
1:K:117:ILE:HA	1:K:120:ILE:CD1	2.48	0.42
1:K:150:PHE:HE1	1:K:160:GLU:HB2	1.78	0.42
1:L:136:SER:HA	1:L:152:THR:O	2.19	0.42
1:M:49:LEU:HD23	1:M:78:ALA:HB2	2.02	0.42
1:M:102:LEU:C	1:M:102:LEU:CD2	2.84	0.42
1:N:41:ILE:HG22	1:N:42:ALA:O	2.19	0.42
2:h:18:VAL:HG23	2:h:116:ALA:HB1	1.99	0.42
2:j:121:LEU:CD1	2:j:127:MET:HE2	2.49	0.42
2:l:54:SER:CB	2:l:102:LEU:HD21	2.47	0.42
2:l:107:ILE:H	2:l:107:ILE:HG12	1.72	0.42
2:l:147:LEU:C	2:l:149:ALA:N	2.77	0.42
2:l:150:GLY:O	2:l:163:LEU:CD1	2.65	0.42
2:l:172:MET:HE3	2:l:179:GLY:HA2	2.01	0.42
2:m:9:THR:CG2	2:m:22:THR:HG22	2.48	0.42
2:m:52:ALA:HB3	2:m:104:GLN:CB	2.45	0.42
2:n:35:LYS:O	2:n:35:LYS:HG2	2.19	0.42
1:B:90:ILE:O	1:B:92:ARG:N	2.52	0.42
1:B:188:ASP:CA	1:B:191:LEU:HB2	2.45	0.42
1:C:82:LEU:HD23	1:C:85:ASP:H	1.85	0.42
1:D:61:LYS:HE2	1:D:63:ARG:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:90:ILE:HD12	1:D:94:ARG:CD	2.49	0.42
1:D:102:LEU:HD12	2:d:64:LEU:HA	2.00	0.42
1:E:18:PRO:O	1:F:27:TYR:HD1	2.02	0.42
1:F:134:GLY:C	1:F:135:VAL:HG12	2.44	0.42
1:G:144:LYS:O	1:G:145:ASN:HB2	2.20	0.42
1:G:235:GLU:HA	1:G:235:GLU:OE2	2.19	0.42
1:G:242:ASN:O	1:G:244:GLU:HG3	2.18	0.42
2:b:8:THR:HB	2:b:178:SER:OG	2.20	0.42
2:d:25:ARG:HD3	2:d:177:PHE:O	2.19	0.42
2:d:146:VAL:HG12	2:d:147:LEU:HD23	2.01	0.42
2:e:80:ILE:HD12	2:e:80:ILE:H	1.84	0.42
2:e:161:ILE:H	2:e:161:ILE:HG13	1.60	0.42
2:f:19:ILE:O	2:f:20:LEU:HD23	2.19	0.42
2:g:43:ILE:HD11	2:g:47:ILE:CB	2.48	0.42
2:g:61:ILE:HG13	2:g:101:PHE:HZ	1.83	0.42
2:g:165:LEU:HD22	2:g:182:ILE:HD11	2.00	0.42
1:H:77:ALA:HA	1:H:138:LEU:O	2.19	0.42
1:H:85:ASP:O	1:H:89:LEU:HD13	2.19	0.42
1:I:150:PHE:CE1	1:I:160:GLU:HB2	2.54	0.42
1:J:144:LYS:O	1:J:146:GLU:N	2.52	0.42
1:K:131:ARG:O	1:K:132:PRO:O	2.37	0.42
1:K:216:THR:C	1:K:218:LYS:N	2.76	0.42
1:L:94:ARG:HH11	2:l:75:ARG:HA	1.79	0.42
1:L:133:PHE:O	1:L:154:PRO:HB3	2.18	0.42
1:M:184:ASP:O	1:M:185:ILE:C	2.62	0.42
2:j:62:VAL:O	2:j:66:ILE:HG13	2.19	0.42
2:k:144:TYR:O	2:k:146:VAL:N	2.51	0.42
1:A:126:GLN:HB2	1:B:131:ARG:HG3	2.00	0.42
1:A:239:LYS:HE3	1:A:240:LYS:HZ1	1.84	0.42
1:C:169:GLY:O	1:C:170:ARG:C	2.62	0.42
1:D:22:LEU:C	1:D:22:LEU:CD2	2.92	0.42
1:D:185:ILE:HD12	1:D:185:ILE:C	2.44	0.42
1:E:207:PRO:CB	1:E:231:LYS:HB2	2.48	0.42
1:F:70:GLN:HA	1:F:76:ALA:HB2	2.01	0.42
1:G:68:ILE:HD11	1:G:211:ASP:CB	2.50	0.42
2:b:43:ILE:HD11	2:b:47:ILE:HB	2.01	0.42
2:c:69:ALA:C	2:c:71:LEU:N	2.77	0.42
2:c:199:GLU:H	2:c:199:GLU:HG3	1.45	0.42
2:d:21:ALA:HB1	2:d:168:LEU:HD11	1.99	0.42
2:d:23:ASP:C	2:d:25:ARG:H	2.28	0.42
2:e:54:SER:CB	2:e:102:LEU:HD11	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e:55:VAL:HG23	2:e:56:GLY:H	1.84	0.42
2:e:59:GLN:HG3	2:f:126:GLY:HA2	2.01	0.42
2:e:143:ALA:HB1	2:e:167:ALA:HB1	2.01	0.42
2:f:157:VAL:HG23	2:f:158:GLU:N	2.34	0.42
2:g:9:THR:CG2	2:g:22:THR:HG22	2.44	0.42
2:g:16:ASP:C	2:g:189:LYS:NZ	2.76	0.42
2:g:82:PRO:C	2:g:84:ALA:N	2.76	0.42
1:H:30:GLU:O	1:H:31:ALA:C	2.62	0.42
1:H:45:ASP:OD1	1:H:186:THR:HB	2.19	0.42
1:H:52:ASP:HB2	1:H:198:LEU:CG	2.49	0.42
1:H:55:ILE:CD1	1:H:62:ILE:HG23	2.49	0.42
1:H:67:LYS:HD2	1:H:67:LYS:HA	1.74	0.42
1:I:173:VAL:HA	1:I:176:LEU:HB3	2.01	0.42
1:J:96:GLU:HG2	1:J:116:LYS:CG	2.43	0.42
1:L:22:LEU:HD23	1:L:23:TYR:N	2.35	0.42
1:L:122:GLN:O	1:L:125:THR:HB	2.20	0.42
1:L:141:GLY:O	1:L:142:ILE:HD13	2.20	0.42
1:M:94:ARG:HH12	2:m:75:ARG:HA	1.84	0.42
1:M:114:ALA:C	1:M:116:LYS:N	2.78	0.42
1:M:177:LEU:O	1:M:179:LYS:N	2.52	0.42
1:N:48:VAL:HG22	1:N:214:ILE:CA	2.33	0.42
1:N:205:ILE:HD12	1:N:234:ILE:HD11	2.01	0.42
1:N:208:GLU:C	1:N:210:VAL:H	2.26	0.42
2:h:59:GLN:O	2:h:62:VAL:HB	2.20	0.42
2:i:132:THR:HB	2:i:133:PHE:CD1	2.54	0.42
2:j:9:THR:OG1	2:j:136:THR:CG2	2.61	0.42
2:m:96:SER:CA	2:m:99:PHE:HB2	2.49	0.42
2:m:101:PHE:CD1	2:m:102:LEU:N	2.76	0.42
2:m:119:PHE:CD1	2:m:129:GLU:HA	2.53	0.42
2:n:43:ILE:HG12	2:n:44:ASP:N	2.34	0.42
1:A:126:GLN:HB3	1:B:131:ARG:CZ	2.49	0.42
1:B:45:ASP:HA	1:B:218:LYS:HZ1	1.84	0.42
1:B:66:GLU:OE1	1:B:69:PHE:HE1	2.02	0.42
1:C:60:VAL:O	1:C:61:LYS:C	2.62	0.42
1:C:195:ILE:HD13	1:C:233:LEU:HB3	2.01	0.42
1:D:112:MET:O	1:D:113:LEU:C	2.62	0.42
1:D:203:GLU:OE1	1:D:241:LEU:HD21	2.18	0.42
1:E:89:LEU:HD11	1:E:133:PHE:CE1	2.54	0.42
1:E:130:VAL:O	1:E:130:VAL:CG1	2.67	0.42
1:E:233:LEU:C	1:E:235:GLU:N	2.77	0.42
1:F:182:ARG:O	1:F:185:ILE:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:47:VAL:HG22	1:G:48:VAL:N	2.34	0.42
1:G:87:ARG:O	1:G:90:ILE:HG13	2.19	0.42
1:G:135:VAL:HG23	1:G:136:SER:N	2.35	0.42
1:G:212:VAL:HG11	1:G:225:ILE:HD12	2.01	0.42
1:G:239:LYS:HG3	1:G:240:LYS:HE2	2.01	0.42
2:c:12:LEU:N	2:c:12:LEU:CD2	2.83	0.42
2:d:83:LEU:HB3	2:d:119:PHE:HZ	1.84	0.42
2:e:59:GLN:HE21	2:e:59:GLN:HA	1.84	0.42
2:f:12:LEU:HA	2:f:133:PHE:HA	2.02	0.42
2:f:49:MET:CB	2:f:107:ILE:HG22	2.49	0.42
2:g:8:THR:HG21	2:g:178:SER:HB3	2.01	0.42
1:I:75:VAL:HG21	1:I:110:ILE:HG12	2.00	0.42
1:M:213:CYS:C	1:M:214:ILE:HD12	2.44	0.42
1:N:17:SER:HB3	1:N:21:ARG:C	2.44	0.42
1:N:87:ARG:O	1:N:90:ILE:HG13	2.19	0.42
1:N:124:TYR:CE1	1:N:133:PHE:CZ	3.07	0.42
1:N:181:TYR:CG	1:N:182:ARG:N	2.87	0.42
1:N:184:ASP:O	1:N:185:ILE:C	2.62	0.42
2:h:93:LEU:HD13	2:h:93:LEU:HA	1.63	0.42
2:h:105:ILE:HG22	2:h:121:LEU:HB2	2.01	0.42
2:i:17:ALA:CB	2:i:188:THR:HA	2.50	0.42
2:i:54:SER:O	2:i:57:ASP:HB2	2.19	0.42
2:i:93:LEU:HB3	2:i:124:LEU:O	2.20	0.42
2:i:140:SER:OG	2:i:141:PRO:CD	2.68	0.42
2:j:82:PRO:C	2:j:84:ALA:H	2.28	0.42
2:j:102:LEU:C	2:j:102:LEU:HD13	2.44	0.42
2:k:19:ILE:CG2	2:k:184:LEU:HD21	2.49	0.42
2:n:69:ALA:C	2:n:71:LEU:N	2.77	0.42
2:n:140:SER:OG	2:n:141:PRO:CD	2.67	0.42
1:A:55:ILE:H	1:A:55:ILE:HG13	1.65	0.42
1:A:104:TYR:O	2:b:87:THR:HB	2.19	0.42
1:A:135:VAL:O	1:A:154:PRO:HG3	2.19	0.42
1:A:161:TYR:CD1	1:A:164:THR:HG21	2.55	0.42
1:A:180:GLU:CD	1:A:180:GLU:N	2.72	0.42
1:B:146:GLU:HG3	1:B:148:ARG:HG3	2.02	0.42
1:C:51:VAL:HG21	1:C:68:ILE:HG23	2.01	0.42
1:E:152:THR:HA	1:E:157:ALA:CB	2.46	0.42
1:F:68:ILE:HD11	1:F:211:ASP:HB3	2.01	0.42
1:F:72:ASP:HB3	1:F:74:HIS:ND1	2.34	0.42
1:F:158:LEU:HD12	1:G:83:VAL:CG2	2.50	0.42
1:F:237:VAL:HA	1:F:240:LYS:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:23:ASP:O	2:a:23:ASP:OD1	2.37	0.42
2:a:40:LEU:HD21	2:a:185:ALA:HB3	2.02	0.42
2:a:184:LEU:O	2:a:195:PHE:CD1	2.73	0.42
2:b:94:HIS:NE2	2:b:97:ARG:HD3	2.35	0.42
2:b:203:ILE:O	2:b:207:MET:HG3	2.20	0.42
2:d:89:LEU:HD23	2:d:89:LEU:HA	1.90	0.42
2:e:7:THR:HG22	2:e:138:SER:H	1.85	0.42
2:e:8:THR:HG23	2:e:168:LEU:CD2	2.50	0.42
2:e:34:ASP:OD2	2:f:128:ASN:HB3	2.19	0.42
2:e:72:TYR:CE2	2:e:76:THR:CG2	3.02	0.42
2:e:81:PRO:O	2:e:84:ALA:HB3	2.20	0.42
2:e:133:PHE:CD2	2:e:147:LEU:CD1	3.03	0.42
2:f:31:LEU:HD12	2:f:32:VAL:H	1.82	0.42
2:f:182:ILE:HG12	2:f:183:SER:N	2.32	0.42
1:H:37:THR:CG2	1:H:52:ASP:HB3	2.47	0.42
1:I:95:LEU:C	1:I:97:ALA:H	2.28	0.42
1:J:122:GLN:CG	1:K:84:ALA:HB1	2.49	0.42
1:K:39:ILE:HD11	1:K:173:VAL:HG21	2.01	0.42
1:L:45:ASP:HA	1:L:218:LYS:HE2	2.01	0.42
1:L:158:LEU:HB3	1:M:64:SER:O	2.19	0.42
1:M:121:LYS:NZ	1:M:137:LEU:HD12	2.34	0.42
1:M:199:THR:HA	1:M:205:ILE:CD1	2.38	0.42
1:N:137:LEU:O	1:N:151:GLU:HA	2.20	0.42
1:N:227:VAL:HA	1:N:230:ILE:HD12	2.02	0.42
2:h:14:CYS:HB3	2:h:155:MET:O	2.19	0.42
2:h:144:TYR:O	2:h:145:GLY:C	2.60	0.42
2:i:55:VAL:O	2:i:56:GLY:C	2.62	0.42
2:i:135:ALA:N	2:i:144:TYR:CE1	2.87	0.42
2:k:83:LEU:HB3	2:k:119:PHE:HZ	1.85	0.42
2:m:19:ILE:CG2	2:m:184:LEU:HD21	2.50	0.42
2:m:62:VAL:O	2:m:65:LEU:HB3	2.19	0.42
2:m:202:LYS:HG3	2:m:203:ILE:HG13	2.01	0.42
1:A:44:LYS:HE2	1:A:44:LYS:HB3	1.77	0.42
1:A:161:TYR:CD2	1:B:60:VAL:HG13	2.55	0.42
1:B:52:ASP:HB2	1:B:198:LEU:HD11	2.01	0.42
1:C:122:GLN:HG3	1:D:84:ALA:O	2.20	0.42
1:D:138:LEU:HA	1:D:138:LEU:HD23	1.70	0.42
1:D:227:VAL:O	1:D:228:GLU:CB	2.67	0.42
1:E:170:ARG:CB	1:E:171:PRO:CD	2.97	0.42
1:F:55:ILE:HG12	1:F:65:ILE:HD13	2.01	0.42
1:G:60:VAL:O	1:G:61:LYS:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:23:ASP:C	2:a:25:ARG:H	2.28	0.42
2:a:172:MET:CB	2:a:179:GLY:HA2	2.49	0.42
2:b:175:ASP:OD2	2:b:175:ASP:C	2.63	0.42
2:e:117:LYS:HB3	2:e:119:PHE:CE2	2.55	0.42
2:f:77:GLY:O	2:f:78:ARG:C	2.62	0.42
2:f:152:ASP:O	2:f:155:MET:HG2	2.19	0.42
2:g:24:LYS:HE2	2:g:183:SER:CB	2.50	0.42
2:g:111:ASP:N	2:g:115:GLY:O	2.48	0.42
2:g:179:GLY:O	2:g:180:ASN:C	2.62	0.42
1:I:71:ILE:HD12	1:I:94:ARG:HG3	2.02	0.42
1:I:170:ARG:HB2	1:I:171:PRO:CD	2.41	0.42
1:I:190:GLY:O	1:I:191:LEU:O	2.37	0.42
1:I:224:LYS:HB3	1:I:224:LYS:HE3	1.82	0.42
1:J:23:TYR:O	1:J:24:GLN:C	2.63	0.42
1:J:224:LYS:HE3	1:J:224:LYS:HB3	1.75	0.42
1:K:212:VAL:CB	1:K:225:ILE:HB	2.38	0.42
1:L:62:ILE:HD13	1:L:208:GLU:OE1	2.19	0.42
1:L:125:THR:HG22	1:M:131:ARG:HH21	1.85	0.42
1:L:207:PRO:CB	1:L:231:LYS:HB2	2.50	0.42
1:M:119:ASP:O	1:M:122:GLN:HB3	2.19	0.42
2:h:19:ILE:O	2:h:20:LEU:HD23	2.19	0.42
2:i:79:ASN:C	2:i:80:ILE:HD12	2.44	0.42
2:j:43:ILE:H	2:j:43:ILE:CD1	2.23	0.42
2:j:66:ILE:O	2:j:69:ALA:HB3	2.19	0.42
2:k:104:GLN:O	2:k:105:ILE:CB	2.67	0.42
2:l:83:LEU:CD2	2:l:117:LYS:HE3	2.44	0.42
2:l:155:MET:O	2:l:156:SER:O	2.36	0.42
2:m:102:LEU:HD22	2:m:103:THR:CA	2.50	0.42
2:m:147:LEU:C	2:m:149:ALA:H	2.27	0.42
2:m:152:ASP:O	2:m:155:MET:HG2	2.19	0.42
2:m:158:GLU:C	2:m:160:GLY:N	2.77	0.42
2:n:7:THR:O	2:n:8:THR:HB	2.20	0.42
2:n:62:VAL:O	2:n:66:ILE:HG13	2.20	0.42
2:n:93:LEU:HA	2:n:93:LEU:HD13	1.46	0.42
1:B:28:ALA:O	1:B:29:ARG:C	2.60	0.42
1:B:106:GLU:OE2	2:c:78:ARG:NH1	2.53	0.42
1:B:206:LYS:HA	1:B:207:PRO:HD3	1.85	0.42
1:C:224:LYS:HE3	1:C:224:LYS:HB3	1.74	0.42
1:D:85:ASP:HA	1:D:88:VAL:CG2	2.49	0.42
1:E:123:ALA:C	1:E:125:THR:H	2.28	0.42
1:E:133:PHE:O	1:E:154:PRO:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:202:ASN:ND2	1:E:205:ILE:HG23	2.35	0.42
1:F:110:ILE:HD11	1:F:141:GLY:C	2.44	0.42
1:G:210:VAL:CG2	1:G:230:ILE:CG2	2.97	0.42
2:b:42:LYS:HE3	2:b:45:ASP:HA	2.02	0.42
2:b:93:LEU:HD13	2:b:93:LEU:HA	1.68	0.42
2:d:15:ASP:HB3	2:d:16:ASP:OD1	2.19	0.42
2:d:104:GLN:O	2:d:105:ILE:CG1	2.68	0.42
2:e:137:GLY:O	2:e:140:SER:HB3	2.19	0.42
1:H:182:ARG:C	1:H:184:ASP:N	2.76	0.42
1:I:53:ARG:HB3	1:I:65:ILE:HD11	1.99	0.42
1:I:173:VAL:O	1:I:175:GLU:N	2.53	0.42
1:K:51:VAL:HG21	1:K:68:ILE:HG23	2.01	0.42
1:K:66:GLU:HB3	1:K:69:PHE:HE1	1.80	0.42
1:K:69:PHE:HD2	1:K:90:ILE:HG21	1.85	0.42
1:K:95:LEU:HA	1:K:95:LEU:HD12	1.87	0.42
1:K:100:TYR:CD2	1:K:100:TYR:C	2.98	0.42
1:K:225:ILE:HG23	1:K:229:GLU:HB2	2.02	0.42
1:N:195:ILE:HD13	1:N:233:LEU:HB3	2.02	0.42
2:h:63:ARG:HB2	2:h:63:ARG:NH1	2.35	0.42
2:h:102:LEU:C	2:h:102:LEU:CD2	2.80	0.42
2:i:61:ILE:O	2:i:61:ILE:HG22	2.15	0.42
2:i:63:ARG:O	2:i:65:LEU:N	2.52	0.42
2:i:199:GLU:O	2:i:202:LYS:HB3	2.19	0.42
2:k:31:LEU:HD12	2:k:32:VAL:N	2.34	0.42
2:l:133:PHE:HD2	2:l:147:LEU:HD12	1.85	0.42
2:l:147:LEU:C	2:l:149:ALA:H	2.27	0.42
2:m:118:LEU:HD12	2:m:118:LEU:HA	1.61	0.42
2:n:93:LEU:C	2:n:95:SER:N	2.78	0.42
1:A:17:SER:CB	1:A:21:ARG:O	2.68	0.42
1:A:23:TYR:O	1:A:24:GLN:C	2.63	0.42
1:A:90:ILE:HG13	1:A:91:ASP:H	1.83	0.42
1:B:114:ALA:C	1:B:116:LYS:H	2.28	0.42
1:B:144:LYS:C	1:B:146:GLU:H	2.27	0.42
1:B:185:ILE:HD12	1:B:186:THR:O	2.20	0.42
1:B:239:LYS:CD	1:B:240:LYS:NZ	2.81	0.42
1:C:41:ILE:HG22	1:C:42:ALA:O	2.20	0.42
1:C:52:ASP:CG	1:C:202:ASN:HD22	2.28	0.42
1:C:93:ALA:O	1:C:95:LEU:N	2.52	0.42
1:C:164:THR:HG23	1:C:165:ALA:N	2.34	0.42
1:C:173:VAL:C	1:C:176:LEU:H	2.26	0.42
1:E:32:VAL:C	1:E:34:ARG:N	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:206:LYS:HB2	1:F:209:ASN:HB2	2.02	0.42
1:F:207:PRO:O	1:F:208:GLU:HG3	2.19	0.42
1:G:52:ASP:HB2	1:G:198:LEU:CD2	2.44	0.42
1:G:217:VAL:C	1:G:219:ASP:H	2.27	0.42
2:a:80:ILE:HD12	2:a:80:ILE:H	1.81	0.42
2:a:176:THR:OG1	2:a:177:PHE:HD2	2.03	0.42
2:c:94:HIS:HE2	2:c:97:ARG:HD3	1.77	0.42
2:c:119:PHE:CE1	2:c:129:GLU:HG3	2.54	0.42
2:d:10:VAL:O	2:d:20:LEU:HA	2.19	0.42
2:d:83:LEU:HB3	2:d:119:PHE:CZ	2.55	0.42
2:d:161:ILE:H	2:d:161:ILE:HG13	1.63	0.42
2:e:31:LEU:HD12	2:e:32:VAL:H	1.84	0.42
1:H:70:GLN:HA	1:H:76:ALA:HB1	2.02	0.42
1:H:164:THR:OG1	1:H:165:ALA:N	2.53	0.42
1:I:162:LYS:HG2	1:I:183:ASP:OD1	2.19	0.42
1:L:49:LEU:HA	1:L:49:LEU:HD12	1.78	0.42
1:N:169:GLY:O	1:N:170:ARG:C	2.62	0.42
2:h:42:LYS:HE3	2:h:45:ASP:HA	2.01	0.42
2:h:172:MET:CE	2:h:179:GLY:C	2.90	0.42
2:i:14:CYS:SG	2:i:155:MET:HG3	2.60	0.42
2:i:34:ASP:OD2	2:j:128:ASN:HB3	2.20	0.42
2:i:40:LEU:CD1	2:i:50:THR:HG22	2.49	0.42
2:i:199:GLU:H	2:i:199:GLU:HG3	1.61	0.42
2:j:200:ILE:O	2:j:202:LYS:N	2.53	0.42
2:k:14:CYS:HB3	2:k:155:MET:O	2.20	0.42
2:k:54:SER:CB	2:k:102:LEU:HD11	2.49	0.42
2:m:25:ARG:HE	2:m:32:VAL:CG1	2.33	0.42
2:n:24:LYS:HA	2:n:37:ALA:O	2.20	0.42
2:n:34:ASP:C	2:n:36:GLU:N	2.76	0.42
2:n:93:LEU:O	2:n:95:SER:N	2.53	0.42
1:B:23:TYR:O	1:B:24:GLN:C	2.62	0.42
1:B:93:ALA:C	1:B:95:LEU:N	2.77	0.42
1:D:45:ASP:CA	1:D:218:LYS:HE2	2.47	0.42
1:F:15:VAL:HG21	1:F:24:GLN:H	1.84	0.42
1:F:23:TYR:O	1:F:24:GLN:C	2.63	0.42
1:F:142:ILE:HD12	1:F:217:VAL:HA	2.02	0.42
1:G:53:ARG:O	1:G:209:ASN:ND2	2.53	0.42
1:G:231:LYS:C	1:G:234:ILE:HG22	2.44	0.42
2:b:31:LEU:HD12	2:b:32:VAL:H	1.85	0.42
2:b:35:LYS:HG2	2:b:35:LYS:O	2.19	0.42
2:b:137:GLY:C	2:b:139:GLY:N	2.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:161:ILE:H	2:b:161:ILE:HG13	1.70	0.42
2:d:44:ASP:C	2:d:46:TYR:H	2.28	0.42
2:d:154:ASP:OD2	2:d:154:ASP:N	2.51	0.42
2:d:184:LEU:CD2	2:d:185:ALA:N	2.82	0.42
2:f:19:ILE:HG12	2:f:161:ILE:HG23	2.02	0.42
2:f:88:LEU:O	2:f:91:ASN:HB2	2.20	0.42
2:g:18:VAL:CG2	2:g:116:ALA:HB1	2.50	0.42
2:g:47:ILE:N	2:g:47:ILE:CD1	2.83	0.42
2:g:97:ARG:O	2:g:99:PHE:N	2.52	0.42
2:g:181:GLY:O	2:g:182:ILE:CG2	2.53	0.42
1:H:32:VAL:C	1:H:34:ARG:H	2.28	0.42
1:H:63:ARG:N	1:H:63:ARG:HD3	2.35	0.42
1:J:108:ILE:CD1	1:J:113:LEU:HB2	2.50	0.42
1:J:123:ALA:C	1:J:125:THR:N	2.78	0.42
1:K:26:GLU:O	1:K:27:TYR:C	2.61	0.42
1:K:39:ILE:HG12	1:K:165:ALA:CB	2.50	0.42
1:K:45:ASP:OD2	1:K:45:ASP:N	2.52	0.42
1:K:114:ALA:C	1:K:116:LYS:N	2.77	0.42
1:L:160:GLU:HB2	1:M:64:SER:HB3	2.00	0.42
1:L:161:TYR:CD1	1:L:164:THR:HG21	2.55	0.42
2:i:155:MET:HE1	2:i:163:LEU:HD22	2.01	0.42
2:i:161:ILE:H	2:i:161:ILE:HG13	1.66	0.42
2:m:156:SER:C	2:m:158:GLU:N	2.76	0.42
1:B:55:ILE:HD11	1:B:62:ILE:HG23	2.01	0.41
1:B:190:GLY:HA2	1:B:193:LEU:CD2	2.37	0.41
1:C:162:LYS:HB3	1:C:181:TYR:CE2	2.55	0.41
1:D:30:GLU:C	1:D:32:VAL:N	2.76	0.41
1:D:142:ILE:HD12	1:D:217:VAL:HA	2.01	0.41
1:D:156:GLY:HA2	1:E:87:ARG:HH22	1.85	0.41
1:D:182:ARG:O	1:D:185:ILE:HG23	2.20	0.41
1:D:205:ILE:H	1:D:205:ILE:HG13	1.61	0.41
1:E:45:ASP:OD1	1:E:186:THR:HB	2.20	0.41
1:E:181:TYR:O	1:E:182:ARG:CG	2.68	0.41
1:E:205:ILE:H	1:E:205:ILE:HG13	1.69	0.41
1:F:208:GLU:C	1:F:210:VAL:H	2.27	0.41
1:G:115:LYS:HE2	1:G:158:LEU:HD21	2.02	0.41
1:G:199:THR:HA	1:G:205:ILE:CD1	2.40	0.41
2:a:14:CYS:SG	2:a:155:MET:HG3	2.60	0.41
2:a:59:GLN:HA	2:a:59:GLN:NE2	2.35	0.41
2:a:197:ASP:O	2:a:198:GLU:C	2.63	0.41
2:b:135:ALA:HB3	2:b:144:TYR:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:d:121:LEU:HD12	2:d:121:LEU:HA	1.82	0.41
2:e:72:TYR:O	2:e:76:THR:HG22	2.21	0.41
2:e:113:LEU:CG	2:e:114:GLU:N	2.81	0.41
2:f:25:ARG:HE	2:f:32:VAL:HG13	1.84	0.41
2:f:55:VAL:H	2:f:55:VAL:HG22	1.62	0.41
1:H:81:GLY:HA3	1:H:134:GLY:O	2.19	0.41
1:I:121:LYS:NZ	1:I:152:THR:OG1	2.52	0.41
1:I:233:LEU:C	1:I:235:GLU:H	2.27	0.41
1:K:142:ILE:HG23	1:K:217:VAL:HG23	2.02	0.41
1:K:182:ARG:O	1:K:185:ILE:HG23	2.19	0.41
1:L:42:ALA:C	1:L:43:CYS:SG	3.03	0.41
1:L:124:TYR:O	1:L:130:VAL:HG13	2.20	0.41
1:L:192:GLU:O	1:L:195:ILE:N	2.53	0.41
1:L:199:THR:CA	1:L:205:ILE:HD11	2.33	0.41
1:M:62:ILE:O	1:M:62:ILE:HG22	2.19	0.41
1:M:70:GLN:HA	1:M:76:ALA:HB2	2.02	0.41
1:M:121:LYS:HG3	1:M:133:PHE:HD1	1.85	0.41
1:M:214:ILE:HD11	1:M:225:ILE:HG13	2.01	0.41
1:N:19:GLU:N	1:N:19:GLU:OE1	2.53	0.41
1:N:48:VAL:CG1	1:N:49:LEU:N	2.82	0.41
1:N:111:GLU:HB2	1:N:148:ARG:NH2	2.34	0.41
1:N:134:GLY:C	1:N:135:VAL:HG12	2.44	0.41
2:i:113:LEU:CG	2:i:114:GLU:N	2.78	0.41
2:i:120:SER:OG	2:i:121:LEU:N	2.53	0.41
2:k:201:GLU:O	2:k:202:LYS:C	2.63	0.41
1:A:109:SER:HB2	2:b:78:ARG:HH22	1.85	0.41
1:B:22:LEU:HD13	1:B:25:VAL:CG2	2.47	0.41
1:C:178:GLU:O	1:C:178:GLU:HG3	2.20	0.41
1:D:177:LEU:CD1	1:D:177:LEU:H	2.33	0.41
1:F:214:ILE:N	1:F:214:ILE:CD1	2.79	0.41
2:a:50:THR:CG2	2:a:106:ILE:HD12	2.50	0.41
2:a:142:ILE:HG21	2:a:171:ALA:HA	2.01	0.41
2:a:204:LEU:HG	2:a:204:LEU:O	2.20	0.41
2:b:195:PHE:HB3	2:b:200:ILE:HG12	2.01	0.41
2:c:72:TYR:HB3	2:c:80:ILE:HG13	2.02	0.41
2:d:44:ASP:HB3	2:d:47:ILE:HD13	2.02	0.41
2:f:105:ILE:O	2:f:105:ILE:HG22	2.18	0.41
2:g:121:LEU:HD11	2:g:127:MET:HE3	2.01	0.41
1:I:89:LEU:HD11	1:I:133:PHE:CE1	2.55	0.41
1:I:121:LYS:HG3	1:I:133:PHE:CD1	2.55	0.41
1:K:162:LYS:O	1:K:163:ALA:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:218:LYS:O	1:K:219:ASP:CB	2.66	0.41
1:K:222:PHE:CD1	1:K:222:PHE:C	2.98	0.41
1:L:15:VAL:O	1:L:16:PHE:HB2	2.20	0.41
1:N:24:GLN:O	1:N:25:VAL:C	2.62	0.41
1:N:145:ASN:O	1:N:217:VAL:HG21	2.20	0.41
1:N:173:VAL:HA	1:N:176:LEU:CB	2.46	0.41
1:N:195:ILE:H	1:N:195:ILE:HG13	1.66	0.41
2:i:40:LEU:HD21	2:i:185:ALA:HB3	2.02	0.41
2:i:58:ALA:O	2:i:59:GLN:C	2.61	0.41
2:i:121:LEU:HD11	2:i:127:MET:CE	2.49	0.41
2:i:158:GLU:C	2:i:160:GLY:N	2.78	0.41
2:k:94:HIS:O	2:k:97:ARG:HG2	2.20	0.41
2:k:119:PHE:HE1	2:k:129:GLU:HG3	1.74	0.41
2:k:170:SER:O	2:k:171:ALA:C	2.63	0.41
2:n:175:ASP:CG	2:n:177:PHE:H	2.26	0.41
2:n:199:GLU:O	2:n:202:LYS:HG2	2.20	0.41
1:A:19:GLU:O	1:B:34:ARG:CZ	2.68	0.41
1:A:53:ARG:CB	1:A:209:ASN:O	2.68	0.41
1:B:16:PHE:HB3	1:C:24:GLN:OE1	2.20	0.41
1:B:17:SER:HA	1:B:18:PRO:HD3	1.89	0.41
1:B:34:ARG:HE	1:B:34:ARG:HB2	1.42	0.41
1:B:215:ILE:HG12	1:B:222:PHE:CB	2.50	0.41
1:C:22:LEU:HD13	1:C:25:VAL:CG2	2.50	0.41
1:C:49:LEU:HD12	1:C:49:LEU:HA	1.87	0.41
1:C:151:GLU:O	1:C:159:ILE:HG13	2.20	0.41
1:C:236:LYS:HB3	1:C:239:LYS:CE	2.50	0.41
1:D:16:PHE:CZ	1:E:28:ALA:HA	2.54	0.41
1:D:115:LYS:HE2	1:D:158:LEU:HD21	2.02	0.41
1:D:210:VAL:HG23	1:D:230:ILE:HG21	2.01	0.41
1:D:239:LYS:O	1:D:240:LYS:HD3	2.20	0.41
1:E:15:VAL:HG21	1:E:24:GLN:HB2	2.01	0.41
2:b:85:CYS:O	2:b:88:LEU:HB2	2.21	0.41
2:c:89:LEU:HD13	2:c:121:LEU:HD23	2.03	0.41
2:e:7:THR:O	2:e:178:SER:OG	2.39	0.41
2:e:55:VAL:O	2:e:57:ASP:N	2.53	0.41
2:e:133:PHE:HD2	2:e:147:LEU:HD12	1.85	0.41
2:f:196:GLU:O	2:f:198:GLU:N	2.53	0.41
2:g:43:ILE:HD11	2:g:47:ILE:CG2	2.49	0.41
1:H:22:LEU:O	1:H:23:TYR:O	2.38	0.41
1:I:62:ILE:O	1:I:65:ILE:HG22	2.21	0.41
1:I:215:ILE:HG12	1:I:222:PHE:HA	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:93:ALA:HB2	1:K:117:ILE:HG21	2.02	0.41
1:K:173:VAL:O	1:K:177:LEU:CD1	2.68	0.41
1:K:226:PRO:HG2	1:K:229:GLU:HG3	2.01	0.41
1:L:14:THR:HG23	1:L:15:VAL:HG22	1.98	0.41
1:L:86:ALA:O	1:L:90:ILE:HG23	2.20	0.41
1:L:206:LYS:HA	1:L:207:PRO:HD3	1.77	0.41
1:M:178:GLU:O	1:M:178:GLU:HG3	2.20	0.41
1:N:68:ILE:HD11	1:N:211:ASP:CG	2.43	0.41
1:N:189:GLU:O	1:N:193:LEU:HD13	2.21	0.41
2:k:81:PRO:O	2:k:84:ALA:HB3	2.21	0.41
2:l:138:SER:OG	2:l:175:ASP:OD1	2.38	0.41
1:A:208:GLU:C	1:A:208:GLU:OE1	2.63	0.41
1:B:95:LEU:HA	1:B:95:LEU:HD12	1.74	0.41
1:C:62:ILE:O	1:C:62:ILE:HG22	2.19	0.41
1:C:176:LEU:O	1:C:177:LEU:C	2.62	0.41
1:D:32:VAL:O	1:D:35:GLY:N	2.50	0.41
1:D:71:ILE:HD13	1:D:94:ARG:CG	2.49	0.41
1:D:151:GLU:O	1:D:157:ALA:HB1	2.20	0.41
1:E:54:ARG:O	1:E:56:THR:HG23	2.20	0.41
1:F:64:SER:O	1:F:66:GLU:N	2.53	0.41
1:F:137:LEU:H	1:F:152:THR:HG1	1.67	0.41
1:F:242:ASN:O	1:F:244:GLU:HG3	2.20	0.41
1:G:34:ARG:O	1:G:35:GLY:O	2.37	0.41
1:G:197:ALA:O	1:G:198:LEU:C	2.61	0.41
2:a:50:THR:O	2:a:50:THR:OG1	2.38	0.41
2:b:16:ASP:C	2:b:189:LYS:NZ	2.78	0.41
2:b:52:ALA:HB3	2:b:104:GLN:CB	2.43	0.41
2:c:194:ILE:H	2:c:194:ILE:HG13	1.57	0.41
2:c:200:ILE:O	2:c:201:GLU:C	2.63	0.41
2:d:50:THR:O	2:d:50:THR:OG1	2.38	0.41
2:d:72:TYR:C	2:d:72:TYR:HD2	2.29	0.41
2:d:72:TYR:CE2	2:d:76:THR:CG2	3.04	0.41
2:e:88:LEU:O	2:e:89:LEU:C	2.62	0.41
2:e:122:ASP:OD2	2:e:122:ASP:C	2.64	0.41
2:f:202:LYS:HG3	2:f:203:ILE:CG1	2.49	0.41
2:g:83:LEU:HD23	2:g:83:LEU:H	1.86	0.41
2:g:120:SER:O	2:g:121:LEU:CD1	2.62	0.41
1:H:80:SER:HB3	1:H:166:ILE:CD1	2.50	0.41
1:H:130:VAL:HG23	1:N:126:GLN:O	2.21	0.41
1:I:87:ARG:O	1:I:88:VAL:C	2.61	0.41
1:K:95:LEU:C	1:K:97:ALA:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:142:ILE:HD11	1:K:215:ILE:HG22	2.01	0.41
1:K:187:LEU:HD23	1:K:187:LEU:HA	1.92	0.41
1:K:242:ASN:C	1:K:244:GLU:N	2.76	0.41
1:M:68:ILE:CD1	1:M:211:ASP:HB3	2.50	0.41
1:N:82:LEU:HD11	1:N:134:GLY:HA3	2.03	0.41
1:N:186:THR:H	1:N:189:GLU:HB3	1.84	0.41
2:i:102:LEU:HD22	2:i:103:THR:CA	2.51	0.41
2:j:102:LEU:HD22	2:j:102:LEU:C	2.45	0.41
2:k:93:LEU:HD13	2:k:93:LEU:HA	1.71	0.41
2:l:54:SER:HB2	2:l:102:LEU:HD11	2.03	0.41
2:n:93:LEU:C	2:n:95:SER:H	2.28	0.41
1:A:89:LEU:HD21	1:A:133:PHE:HD1	1.80	0.41
1:A:154:PRO:O	1:A:155:SER:HB3	2.20	0.41
1:B:144:LYS:O	1:B:145:ASN:HB2	2.20	0.41
1:C:39:ILE:HG23	1:C:164:THR:O	2.20	0.41
1:C:100:TYR:C	1:C:102:LEU:H	2.28	0.41
1:C:119:ASP:O	1:C:122:GLN:HB3	2.21	0.41
1:C:173:VAL:HG23	1:C:174:MET:N	2.35	0.41
1:D:207:PRO:CB	1:D:231:LYS:HB2	2.50	0.41
1:F:186:THR:HG23	1:F:189:GLU:OE2	2.21	0.41
1:G:89:LEU:CD2	1:G:121:LYS:HD3	2.50	0.41
1:G:102:LEU:C	1:G:102:LEU:CD2	2.91	0.41
2:b:43:ILE:HD11	2:b:47:ILE:CB	2.51	0.41
2:b:80:ILE:HD12	2:b:80:ILE:H	1.84	0.41
2:b:86:ALA:HB1	2:b:127:MET:HE1	2.03	0.41
2:c:82:PRO:C	2:c:84:ALA:N	2.77	0.41
2:e:147:LEU:C	2:e:149:ALA:H	2.27	0.41
2:e:147:LEU:C	2:e:149:ALA:N	2.79	0.41
2:e:204:LEU:HA	2:e:207:MET:CG	2.50	0.41
2:g:9:THR:OG1	2:g:136:THR:CG2	2.64	0.41
2:g:65:LEU:C	2:g:65:LEU:CD2	2.80	0.41
1:H:52:ASP:N	1:H:198:LEU:HD11	2.35	0.41
1:H:102:LEU:HD23	1:H:103:THR:N	2.36	0.41
1:H:171:PRO:O	1:H:172:VAL:C	2.62	0.41
1:H:197:ALA:O	1:H:200:LYS:N	2.54	0.41
1:I:175:GLU:O	1:I:178:GLU:HB3	2.20	0.41
1:I:207:PRO:HB2	1:I:231:LYS:HB2	2.03	0.41
1:J:126:GLN:HG3	1:J:127:HIS:ND1	2.36	0.41
1:J:185:ILE:HD12	1:J:186:THR:O	2.21	0.41
1:K:98:GLN:CG	2:k:71:LEU:HD12	2.50	0.41
1:K:98:GLN:HG3	2:k:71:LEU:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:177:LEU:C	1:M:179:LYS:H	2.28	0.41
1:M:178:GLU:HA	1:N:59:LEU:HD21	2.02	0.41
1:N:121:LYS:NZ	1:N:152:THR:OG1	2.53	0.41
2:h:142:ILE:HD13	2:h:171:ALA:HA	2.02	0.41
2:i:71:LEU:O	2:i:75:ARG:HG3	2.20	0.41
2:i:104:GLN:O	2:i:105:ILE:CG1	2.66	0.41
2:j:167:ALA:O	2:j:168:LEU:C	2.61	0.41
2:k:86:ALA:C	2:k:88:LEU:N	2.76	0.41
2:l:69:ALA:HB1	2:l:80:ILE:CD1	2.50	0.41
1:A:166:ILE:HA	1:A:170:ARG:HG2	2.01	0.41
1:B:218:LYS:C	1:B:219:ASP:CG	2.87	0.41
1:C:72:ASP:OD2	1:C:98:GLN:NE2	2.52	0.41
1:D:144:LYS:NZ	2:e:78:ARG:HH11	2.19	0.41
1:D:195:ILE:CD1	1:D:233:LEU:HB3	2.51	0.41
1:E:18:PRO:O	1:F:27:TYR:CD1	2.74	0.41
1:E:95:LEU:C	1:E:97:ALA:N	2.77	0.41
1:F:22:LEU:O	1:F:23:TYR:C	2.62	0.41
1:G:161:TYR:CD1	1:G:164:THR:HB	2.55	0.41
2:a:96:SER:O	2:a:99:PHE:O	2.38	0.41
2:c:43:ILE:CD1	2:c:43:ILE:N	2.73	0.41
2:c:127:MET:HE3	2:c:127:MET:HB2	1.98	0.41
2:c:150:GLY:O	2:c:163:LEU:CD2	2.68	0.41
2:d:76:THR:O	2:d:78:ARG:N	2.53	0.41
2:e:16:ASP:HB3	2:e:189:LYS:HZ2	1.86	0.41
2:f:44:ASP:OD1	2:f:79:ASN:HB3	2.20	0.41
2:f:69:ALA:C	2:f:71:LEU:N	2.79	0.41
2:g:10:VAL:CG1	2:g:135:ALA:HB2	2.51	0.41
1:H:74:HIS:O	1:H:75:VAL:CG2	2.69	0.41
1:H:186:THR:N	1:H:189:GLU:HB3	2.34	0.41
1:H:233:LEU:C	1:H:235:GLU:H	2.26	0.41
1:I:228:GLU:HA	1:I:231:LYS:HB3	2.03	0.41
1:J:153:ASP:OD1	1:J:154:PRO:N	2.54	0.41
1:J:210:VAL:CG2	1:J:230:ILE:HG21	2.51	0.41
1:J:231:LYS:O	1:J:234:ILE:HG22	2.20	0.41
1:K:158:LEU:HD12	1:L:83:VAL:HG21	2.01	0.41
1:L:117:ILE:N	1:L:117:ILE:CD1	2.84	0.41
1:L:137:LEU:O	1:L:138:LEU:HD23	2.21	0.41
1:M:60:VAL:O	1:M:61:LYS:C	2.64	0.41
1:M:126:GLN:O	1:M:126:GLN:HG3	2.21	0.41
1:M:203:GLU:OE1	1:M:241:LEU:HD21	2.20	0.41
1:M:234:ILE:O	1:M:237:VAL:HB	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:234:ILE:O	1:N:237:VAL:HB	2.20	0.41
2:i:23:ASP:O	2:i:23:ASP:OD1	2.38	0.41
2:i:43:ILE:HG22	2:i:66:ILE:HG12	2.02	0.41
2:j:8:THR:HG21	2:j:178:SER:HB3	2.03	0.41
2:j:106:ILE:HD11	2:j:136:THR:HG22	2.02	0.41
2:j:172:MET:HE3	2:j:179:GLY:C	2.46	0.41
2:k:107:ILE:O	2:k:119:PHE:N	2.50	0.41
2:l:21:ALA:CB	2:l:168:LEU:HD11	2.48	0.41
2:l:97:ARG:CG	2:l:98:MET:N	2.74	0.41
2:m:55:VAL:HG23	2:m:56:GLY:H	1.86	0.41
1:C:177:LEU:HD12	1:C:177:LEU:H	1.86	0.41
1:D:87:ARG:O	1:D:88:VAL:C	2.63	0.41
1:E:75:VAL:CG2	1:E:110:ILE:HG12	2.46	0.41
1:E:158:LEU:HD12	1:F:83:VAL:HG21	2.03	0.41
1:E:224:LYS:HB3	1:E:224:LYS:HE3	1.70	0.41
1:F:36:THR:CG2	1:F:67:LYS:HE2	2.50	0.41
1:G:89:LEU:HD11	1:G:133:PHE:CE2	2.54	0.41
2:a:146:VAL:CG2	2:a:167:ALA:HA	2.46	0.41
2:e:105:ILE:HG22	2:e:121:LEU:HB2	2.03	0.41
2:f:133:PHE:CD2	2:f:133:PHE:C	2.98	0.41
2:f:165:LEU:O	2:f:167:ALA:N	2.54	0.41
2:f:184:LEU:HD22	2:f:195:PHE:HE1	1.85	0.41
1:H:31:ALA:HA	1:N:20:GLY:HA2	2.03	0.41
1:H:158:LEU:HG	1:I:87:ARG:HD3	2.01	0.41
1:H:199:THR:HG23	1:H:205:ILE:HD11	2.02	0.41
1:I:89:LEU:HD21	1:I:121:LYS:HD3	2.01	0.41
1:I:133:PHE:O	1:I:154:PRO:HB3	2.21	0.41
1:J:131:ARG:O	1:J:131:ARG:HG3	2.20	0.41
1:K:62:ILE:O	1:K:65:ILE:HG22	2.19	0.41
1:K:123:ALA:O	1:K:125:THR:N	2.54	0.41
1:K:191:LEU:O	1:K:195:ILE:HG13	2.20	0.41
1:M:71:ILE:C	2:m:74:MET:HE1	2.46	0.41
1:N:231:LYS:C	1:N:233:LEU:N	2.78	0.41
2:h:25:ARG:HE	2:h:32:VAL:HG11	1.81	0.41
2:h:200:ILE:HB	2:h:201:GLU:H	1.68	0.41
2:j:21:ALA:CB	2:j:168:LEU:HD11	2.50	0.41
2:l:103:THR:H	2:l:123:PRO:HG3	1.85	0.41
2:n:121:LEU:HD11	2:n:127:MET:HE3	2.01	0.41
1:A:37:THR:CG2	1:A:168:SER:HB3	2.50	0.41
1:A:151:GLU:O	1:A:159:ILE:HG13	2.20	0.41
1:B:26:GLU:HG3	1:B:29:ARG:HE	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:102:LEU:C	1:B:102:LEU:CD2	2.87	0.41
1:D:61:LYS:HG2	1:D:63:ARG:HG2	2.03	0.41
1:D:69:PHE:CD2	1:D:90:ILE:HG21	2.55	0.41
1:E:21:ARG:HB3	1:E:26:GLU:OE1	2.21	0.41
1:E:87:ARG:O	1:E:89:LEU:N	2.53	0.41
1:E:129:GLY:O	1:E:130:VAL:HB	2.21	0.41
1:G:15:VAL:HG21	1:G:24:GLN:H	1.85	0.41
2:a:91:ASN:ND2	2:g:63:ARG:HH12	2.17	0.41
2:a:152:ASP:O	2:a:153:ARG:C	2.64	0.41
2:a:161:ILE:H	2:a:161:ILE:HG13	1.64	0.41
2:b:9:THR:OG1	2:b:136:THR:CG2	2.69	0.41
2:b:11:GLY:C	2:b:118:LEU:HD21	2.46	0.41
2:b:63:ARG:O	2:b:65:LEU:N	2.45	0.41
2:b:65:LEU:HD23	2:b:65:LEU:C	2.46	0.41
2:b:86:ALA:C	2:b:88:LEU:N	2.79	0.41
2:c:161:ILE:H	2:c:161:ILE:HG13	1.65	0.41
2:d:184:LEU:HB3	2:d:195:PHE:HD1	1.86	0.41
2:e:13:ILE:HG12	2:e:18:VAL:HG22	2.02	0.41
2:e:89:LEU:O	2:e:90:SER:C	2.60	0.41
2:f:28:LEU:HD12	2:f:28:LEU:HA	1.80	0.41
2:g:104:GLN:O	2:g:105:ILE:HG13	2.20	0.41
1:H:228:GLU:HA	1:H:231:LYS:HB3	2.03	0.41
1:I:169:GLY:O	1:I:170:ARG:C	2.63	0.41
1:I:210:VAL:CG2	1:I:230:ILE:HG21	2.50	0.41
1:I:237:VAL:HA	1:I:240:LYS:HG2	2.03	0.41
1:K:231:LYS:C	1:K:233:LEU:H	2.28	0.41
1:L:95:LEU:C	1:L:97:ALA:H	2.27	0.41
1:L:141:GLY:O	1:L:147:ALA:HA	2.20	0.41
1:L:188:ASP:O	1:L:191:LEU:HB3	2.21	0.41
1:M:237:VAL:O	1:M:240:LYS:HG2	2.21	0.41
1:N:143:ASP:OD2	1:N:148:ARG:NH2	2.54	0.41
1:N:162:LYS:O	1:N:163:ALA:CB	2.68	0.41
1:N:176:LEU:O	1:N:177:LEU:C	2.62	0.41
2:h:10:VAL:HG12	2:h:135:ALA:HB2	2.03	0.41
2:h:61:ILE:HG13	2:h:101:PHE:HZ	1.83	0.41
2:h:110:TYR:CZ	2:h:189:LYS:HD3	2.56	0.41
2:j:23:ASP:O	2:j:25:ARG:N	2.48	0.41
2:j:63:ARG:NH1	2:k:91:ASN:OD1	2.54	0.41
2:n:45:ASP:C	2:n:46:TYR:HD2	2.29	0.41
2:n:89:LEU:O	2:n:90:SER:C	2.62	0.41
2:n:94:HIS:O	2:n:94:HIS:CG	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:79:THR:HG21	1:A:86:ALA:HB1	2.03	0.41
1:A:142:ILE:HG13	1:A:220:ALA:HA	2.03	0.41
1:A:202:ASN:OD1	1:A:202:ASN:C	2.62	0.41
1:A:214:ILE:HD11	1:A:225:ILE:HG13	2.03	0.41
1:A:231:LYS:HA	1:A:234:ILE:HG22	2.03	0.41
1:B:15:VAL:HG21	1:B:24:GLN:HB2	2.03	0.41
1:B:16:PHE:CD1	1:B:17:SER:N	2.89	0.41
1:B:43:CYS:SG	1:B:187:LEU:HD23	2.61	0.41
1:B:82:LEU:HD23	1:B:85:ASP:H	1.86	0.41
1:B:124:TYR:CE1	1:B:133:PHE:CZ	3.09	0.41
1:B:190:GLY:HA2	1:B:193:LEU:HB2	2.03	0.41
1:B:231:LYS:C	1:B:233:LEU:H	2.28	0.41
1:C:55:ILE:H	1:C:55:ILE:HG13	1.62	0.41
1:C:69:PHE:CD2	1:C:90:ILE:HG21	2.56	0.41
1:C:96:GLU:OE2	1:C:116:LYS:HE2	2.21	0.41
1:C:100:TYR:O	1:C:102:LEU:N	2.54	0.41
1:C:205:ILE:HD12	1:C:234:ILE:CD1	2.42	0.41
1:D:22:LEU:HD13	1:D:25:VAL:HG21	2.01	0.41
1:D:26:GLU:HG2	1:D:29:ARG:CZ	2.49	0.41
1:D:41:ILE:HG22	1:D:42:ALA:O	2.21	0.41
1:D:48:VAL:CG1	1:D:49:LEU:N	2.83	0.41
1:D:59:LEU:HD12	1:D:59:LEU:N	2.35	0.41
1:D:89:LEU:HD21	1:D:121:LYS:CD	2.51	0.41
1:D:92:ARG:HG2	1:D:92:ARG:NH2	2.36	0.41
1:D:177:LEU:O	1:D:179:LYS:N	2.54	0.41
1:D:242:ASN:O	1:D:244:GLU:HG3	2.21	0.41
1:E:41:ILE:HG23	1:E:163:ALA:HB2	2.03	0.41
1:E:71:ILE:HG21	1:E:113:LEU:HD21	2.03	0.41
1:F:29:ARG:O	1:F:30:GLU:C	2.64	0.41
1:F:68:ILE:HD11	1:F:211:ASP:OD2	2.21	0.41
1:F:112:MET:HA	1:F:112:MET:HE3	2.03	0.41
1:F:166:ILE:HA	1:F:170:ARG:HG2	2.03	0.41
1:G:48:VAL:HG22	1:G:214:ILE:CA	2.46	0.41
1:G:67:LYS:HD2	1:G:67:LYS:HA	1.96	0.41
1:G:89:LEU:HD11	1:G:133:PHE:CZ	2.56	0.41
1:G:207:PRO:O	1:G:208:GLU:CD	2.64	0.41
2:a:12:LEU:HD21	2:a:19:ILE:HD13	2.02	0.41
2:a:85:CYS:SG	2:a:86:ALA:N	2.94	0.41
2:a:88:LEU:C	2:a:92:ILE:HG13	2.43	0.41
2:a:97:ARG:CG	2:a:98:MET:N	2.72	0.41
2:a:195:PHE:HB3	2:a:199:GLU:OE1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:140:SER:O	2:b:141:PRO:C	2.63	0.41
2:b:184:LEU:HD22	2:b:195:PHE:HE1	1.86	0.41
2:c:157:VAL:HG23	2:c:158:GLU:N	2.36	0.41
2:d:103:THR:C	2:d:123:PRO:HG3	2.45	0.41
2:d:127:MET:HB2	2:d:127:MET:HE3	1.98	0.41
2:d:175:ASP:OD2	2:d:176:THR:N	2.53	0.41
2:d:187:ILE:O	2:d:187:ILE:HD12	2.21	0.41
2:e:19:ILE:HA	2:e:186:VAL:HG22	2.02	0.41
2:e:107:ILE:H	2:e:107:ILE:HG12	1.76	0.41
2:e:112:LEU:H	2:e:112:LEU:HG	1.70	0.41
2:e:122:ASP:HB2	2:e:123:PRO:HD2	2.03	0.41
2:f:24:LYS:HB3	2:f:36:GLU:HA	2.01	0.41
2:f:55:VAL:O	2:f:59:GLN:HG2	2.21	0.41
2:f:62:VAL:HG12	2:f:66:ILE:HD11	2.02	0.41
2:f:102:LEU:CA	2:f:123:PRO:HB3	2.46	0.41
2:f:202:LYS:HG3	2:f:203:ILE:HG12	2.03	0.41
2:g:12:LEU:HD21	2:g:19:ILE:HB	2.02	0.41
2:g:19:ILE:HG23	2:g:184:LEU:HD21	2.03	0.41
1:H:18:PRO:HA	1:I:27:TYR:CD1	2.56	0.41
1:H:66:GLU:HB3	1:H:69:PHE:CZ	2.56	0.41
1:H:87:ARG:NH2	1:N:119:ASP:OD1	2.50	0.41
1:H:92:ARG:O	1:H:92:ARG:CG	2.69	0.41
1:H:131:ARG:HG3	1:H:131:ARG:NH1	2.35	0.41
1:H:153:ASP:C	1:H:155:SER:N	2.77	0.41
1:I:81:GLY:HA3	1:I:134:GLY:O	2.20	0.41
1:I:100:TYR:CE2	1:I:108:ILE:HA	2.56	0.41
1:I:130:VAL:O	1:I:130:VAL:HG13	2.20	0.41
1:J:43:CYS:SG	1:J:44:LYS:N	2.93	0.41
1:J:44:LYS:HE2	1:J:44:LYS:HB3	1.85	0.41
1:J:144:LYS:C	1:J:146:GLU:N	2.78	0.41
1:J:145:ASN:O	1:J:217:VAL:HG21	2.20	0.41
1:K:231:LYS:C	1:K:233:LEU:N	2.78	0.41
1:M:18:PRO:HA	1:N:27:TYR:CD1	2.56	0.41
1:M:195:ILE:O	1:M:196:THR:C	2.63	0.41
1:M:231:LYS:C	1:M:233:LEU:N	2.78	0.41
1:N:68:ILE:N	1:N:68:ILE:CD1	2.73	0.41
1:N:102:LEU:HD12	2:n:64:LEU:HA	2.02	0.41
1:N:173:VAL:C	1:N:176:LEU:H	2.29	0.41
1:N:202:ASN:HD22	1:N:205:ILE:HG23	1.82	0.41
1:N:208:GLU:C	1:N:210:VAL:N	2.79	0.41
2:h:16:ASP:OD1	2:h:16:ASP:N	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h:52:ALA:HB3	2:h:104:GLN:HB2	2.03	0.41
2:h:60:ALA:HA	2:h:63:ARG:NH2	2.35	0.41
2:h:69:ALA:HB1	2:h:80:ILE:CD1	2.51	0.41
2:h:72:TYR:CE2	2:h:76:THR:CG2	3.03	0.41
2:h:152:ASP:O	2:h:155:MET:CG	2.66	0.41
2:i:13:ILE:HG12	2:i:18:VAL:HG22	2.03	0.41
2:i:151:TYR:HA	2:i:155:MET:SD	2.61	0.41
2:j:42:LYS:NZ	2:j:192:VAL:HB	2.36	0.41
2:j:96:SER:CB	2:j:99:PHE:HB2	2.50	0.41
2:j:133:PHE:CD2	2:j:133:PHE:C	2.99	0.41
2:l:17:ALA:CB	2:l:187:ILE:O	2.65	0.41
2:l:43:ILE:HD13	2:l:47:ILE:O	2.21	0.41
2:l:60:ALA:C	2:l:64:LEU:HG	2.45	0.41
2:l:65:LEU:C	2:l:65:LEU:HD23	2.45	0.41
2:l:73:LYS:HE3	2:l:79:ASN:OD1	2.21	0.41
2:l:94:HIS:CD2	2:l:97:ARG:HD3	2.55	0.41
2:l:142:ILE:HD11	2:l:174:ARG:O	2.20	0.41
2:l:185:ALA:CA	2:l:193:LYS:O	2.69	0.41
2:m:43:ILE:HG21	2:m:65:LEU:HD22	2.03	0.41
2:m:49:MET:CE	2:m:62:VAL:HG13	2.51	0.41
2:m:89:LEU:HD23	2:m:92:ILE:CD1	2.37	0.41
2:m:110:TYR:CE1	2:m:189:LYS:NZ	2.87	0.41
2:m:184:LEU:HD22	2:m:195:PHE:CE1	2.55	0.41
2:n:172:MET:CB	2:n:179:GLY:HA2	2.50	0.41
1:A:18:PRO:HA	1:B:27:TYR:CD1	2.55	0.41
1:A:60:VAL:HG22	1:G:161:TYR:CE2	2.55	0.41
1:A:161:TYR:HB3	1:A:163:ALA:H	1.86	0.41
1:A:179:LYS:HE3	1:A:179:LYS:HB2	1.87	0.41
1:B:45:ASP:HB3	1:B:218:LYS:HE2	2.01	0.41
1:D:45:ASP:OD1	1:D:186:THR:HB	2.20	0.41
1:D:52:ASP:CG	1:D:198:LEU:HD21	2.47	0.41
1:D:125:THR:HG22	1:E:131:ARG:HH21	1.84	0.41
1:D:125:THR:CG2	1:E:131:ARG:NH2	2.81	0.41
1:F:32:VAL:HG12	1:F:33:ARG:N	2.36	0.41
1:F:242:ASN:O	1:F:243:GLU:HG2	2.21	0.41
2:a:137:GLY:O	2:a:140:SER:HB3	2.21	0.41
2:b:73:LYS:HE3	2:b:79:ASN:OD1	2.21	0.41
2:b:143:ALA:O	2:b:146:VAL:HB	2.21	0.41
2:b:155:MET:CE	2:b:159:GLU:O	2.69	0.41
2:b:161:ILE:O	2:b:165:LEU:HG	2.21	0.41
2:c:173:GLU:O	2:c:174:ARG:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e:82:PRO:C	2:e:84:ALA:N	2.79	0.41
2:e:83:LEU:HB3	2:e:119:PHE:HZ	1.86	0.41
1:H:192:GLU:O	1:H:195:ILE:N	2.54	0.41
1:I:191:LEU:O	1:I:195:ILE:HG13	2.21	0.41
1:J:102:LEU:C	1:J:102:LEU:CD2	2.93	0.41
1:L:231:LYS:C	1:L:233:LEU:N	2.79	0.41
1:M:135:VAL:O	1:M:154:PRO:HD3	2.21	0.41
1:M:150:PHE:HE1	1:M:160:GLU:HB2	1.85	0.41
1:M:154:PRO:O	1:M:155:SER:CB	2.69	0.41
2:i:25:ARG:HH11	2:i:32:VAL:HG21	1.85	0.41
2:j:43:ILE:HD13	2:j:43:ILE:N	2.22	0.41
2:j:89:LEU:O	2:j:93:LEU:HB2	2.20	0.41
2:j:102:LEU:CA	2:j:123:PRO:HB3	2.51	0.41
2:l:26:ALA:HB3	2:l:34:ASP:CB	2.51	0.41
2:l:133:PHE:CD1	2:l:133:PHE:N	2.89	0.41
2:l:156:SER:HG	2:l:158:GLU:HB2	1.86	0.41
2:m:161:ILE:H	2:m:161:ILE:HG13	1.67	0.41
2:n:65:LEU:O	2:n:68:GLU:N	2.54	0.41
2:n:162:LYS:C	2:n:164:ALA:N	2.77	0.41
2:n:171:ALA:C	2:n:173:GLU:N	2.79	0.41
1:A:217:VAL:C	1:A:219:ASP:H	2.29	0.40
1:A:233:LEU:C	1:A:235:GLU:N	2.78	0.40
1:B:89:LEU:HD11	1:B:133:PHE:CG	2.55	0.40
1:B:161:TYR:CD1	1:B:164:THR:HG21	2.57	0.40
1:C:16:PHE:HB3	1:D:24:GLN:CD	2.42	0.40
1:C:69:PHE:O	1:C:76:ALA:HB1	2.21	0.40
1:D:151:GLU:HB3	1:D:159:ILE:HG13	2.03	0.40
1:D:161:TYR:CD1	1:D:164:THR:CG2	3.04	0.40
1:E:124:TYR:CD1	1:E:133:PHE:CE2	3.10	0.40
1:E:126:GLN:HB2	1:F:131:ARG:CG	2.50	0.40
1:E:170:ARG:O	1:E:171:PRO:C	2.63	0.40
1:E:173:VAL:O	1:E:175:GLU:N	2.54	0.40
1:F:95:LEU:HD12	1:F:95:LEU:HA	1.82	0.40
1:G:15:VAL:CG2	1:G:24:GLN:HB2	2.48	0.40
1:G:15:VAL:HG21	1:G:24:GLN:CG	2.51	0.40
2:a:110:TYR:CE1	2:a:189:LYS:NZ	2.85	0.40
2:b:150:GLY:O	2:b:163:LEU:HD22	2.20	0.40
2:c:72:TYR:CE2	2:c:76:THR:CG2	3.04	0.40
2:c:184:LEU:HB3	2:c:195:PHE:CD1	2.49	0.40
2:d:42:LYS:HD2	2:d:192:VAL:HB	2.03	0.40
2:d:103:THR:H	2:d:123:PRO:HB3	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:d:104:GLN:O	2:d:105:ILE:CB	2.69	0.40
2:d:137:GLY:O	2:d:139:GLY:N	2.54	0.40
2:e:28:LEU:HA	2:e:28:LEU:HD12	1.66	0.40
1:J:72:ASP:HB3	1:J:74:HIS:ND1	2.36	0.40
1:J:83:VAL:HA	1:J:86:ALA:CB	2.44	0.40
1:J:177:LEU:HA	1:J:180:GLU:OE1	2.21	0.40
1:K:234:ILE:O	1:K:234:ILE:HG12	2.21	0.40
1:L:115:LYS:HE2	1:L:158:LEU:HD21	2.03	0.40
1:M:45:ASP:C	1:M:217:VAL:HG12	2.46	0.40
1:M:90:ILE:HG13	1:M:91:ASP:N	2.36	0.40
1:N:182:ARG:O	1:N:184:ASP:N	2.51	0.40
1:N:231:LYS:HG2	1:N:235:GLU:OE1	2.22	0.40
2:h:194:ILE:H	2:h:194:ILE:HG13	1.63	0.40
2:i:133:PHE:CE2	2:i:147:LEU:HB2	2.56	0.40
2:j:157:VAL:HG23	2:j:158:GLU:N	2.36	0.40
2:k:19:ILE:HG22	2:k:20:LEU:N	2.36	0.40
2:k:60:ALA:O	2:k:61:ILE:C	2.64	0.40
2:k:130:GLU:CG	2:k:134:THR:HB	2.43	0.40
2:l:26:ALA:HB3	2:l:34:ASP:HB2	2.03	0.40
2:l:45:ASP:C	2:l:46:TYR:HD2	2.28	0.40
2:l:55:VAL:O	2:l:57:ASP:N	2.54	0.40
2:l:170:SER:O	2:l:171:ALA:C	2.64	0.40
1:B:142:ILE:CG2	1:B:217:VAL:HG23	2.44	0.40
1:B:190:GLY:O	1:B:193:LEU:HB2	2.20	0.40
1:B:190:GLY:CA	1:B:193:LEU:HD22	2.38	0.40
1:E:68:ILE:HG22	1:E:78:ALA:CB	2.51	0.40
1:E:69:PHE:CD2	1:E:90:ILE:HG21	2.55	0.40
1:F:152:THR:HA	1:F:157:ALA:CB	2.51	0.40
1:G:102:LEU:HD23	1:G:103:THR:N	2.36	0.40
1:G:173:VAL:O	1:G:177:LEU:CD1	2.69	0.40
2:b:135:ALA:N	2:b:144:TYR:HE1	2.16	0.40
2:d:89:LEU:HA	2:d:92:ILE:HB	2.02	0.40
2:f:61:ILE:HG13	2:f:101:PHE:CZ	2.56	0.40
2:f:172:MET:CE	2:f:179:GLY:HA2	2.50	0.40
2:f:187:ILE:H	2:f:187:ILE:HG13	1.51	0.40
1:H:65:ILE:HG12	1:H:65:ILE:O	2.21	0.40
1:H:84:ALA:HB2	1:N:155:SER:O	2.22	0.40
1:I:28:ALA:O	1:I:29:ARG:C	2.65	0.40
1:I:178:GLU:HA	1:J:59:LEU:CD2	2.44	0.40
1:J:181:TYR:C	1:J:182:ARG:HG3	2.46	0.40
1:L:18:PRO:O	1:M:27:TYR:CD1	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:153:ASP:H	1:L:157:ALA:HB2	1.85	0.40
1:M:72:ASP:OD2	1:M:98:GLN:NE2	2.52	0.40
1:M:206:LYS:HB2	1:M:209:ASN:HB2	2.03	0.40
1:N:83:VAL:HA	1:N:86:ALA:HB2	2.03	0.40
2:h:83:LEU:CD2	2:h:117:LYS:HE3	2.44	0.40
2:i:43:ILE:HD11	2:i:47:ILE:HB	2.03	0.40
2:j:54:SER:HB3	2:j:102:LEU:HD11	2.02	0.40
2:j:121:LEU:HD12	2:j:121:LEU:HA	1.95	0.40
2:k:47:ILE:CG2	2:k:48:ALA:N	2.85	0.40
2:k:52:ALA:O	2:k:104:GLN:HB2	2.20	0.40
2:n:101:PHE:CD1	2:n:102:LEU:N	2.87	0.40
1:A:51:VAL:HG21	1:A:68:ILE:HG23	2.03	0.40
1:B:192:GLU:O	1:B:193:LEU:C	2.64	0.40
1:B:207:PRO:O	1:B:208:GLU:HG3	2.22	0.40
1:D:151:GLU:O	1:D:159:ILE:HG13	2.21	0.40
1:E:42:ALA:O	1:E:43:CYS:CB	2.69	0.40
1:E:59:LEU:N	1:E:59:LEU:CD1	2.84	0.40
1:E:106:GLU:O	1:E:107:GLU:C	2.64	0.40
1:G:48:VAL:CG1	1:G:49:LEU:N	2.85	0.40
1:G:122:GLN:C	1:G:122:GLN:OE1	2.65	0.40
2:a:173:GLU:O	2:a:174:ARG:HG2	2.22	0.40
2:c:7:THR:CA	2:c:39:LYS:HE3	2.51	0.40
2:d:201:GLU:O	2:d:203:ILE:N	2.55	0.40
2:e:162:LYS:C	2:e:164:ALA:N	2.79	0.40
2:e:185:ALA:CB	2:e:193:LYS:O	2.69	0.40
2:f:97:ARG:CG	2:f:98:MET:H	2.25	0.40
2:f:202:LYS:CG	2:f:203:ILE:N	2.65	0.40
1:I:203:GLU:OE1	1:I:241:LEU:HD21	2.20	0.40
1:K:14:THR:HG22	1:K:15:VAL:CG2	2.49	0.40
1:K:65:ILE:HG23	1:K:65:ILE:O	2.22	0.40
1:K:129:GLY:O	1:K:130:VAL:HB	2.20	0.40
1:K:177:LEU:O	1:K:179:LYS:N	2.55	0.40
1:K:199:THR:O	1:K:200:LYS:C	2.64	0.40
1:K:231:LYS:O	1:K:234:ILE:N	2.53	0.40
1:L:126:GLN:HG3	1:L:127:HIS:ND1	2.37	0.40
1:M:18:PRO:O	1:M:19:GLU:CB	2.69	0.40
1:M:22:LEU:HD22	1:M:25:VAL:CG2	2.50	0.40
1:M:101:ARG:O	1:M:101:ARG:HG2	2.21	0.40
1:N:225:ILE:O	1:N:225:ILE:HG22	2.20	0.40
2:h:44:ASP:HB3	2:h:47:ILE:HD13	2.02	0.40
2:h:118:LEU:HD12	2:h:118:LEU:HA	1.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:49:MET:CB	2:j:107:ILE:HG22	2.50	0.40
2:l:23:ASP:C	2:l:25:ARG:H	2.28	0.40
2:m:185:ALA:HA	2:m:193:LYS:O	2.21	0.40
2:m:202:LYS:HB2	2:m:202:LYS:HE3	1.87	0.40
1:A:139:ILE:HG22	1:A:140:ALA:N	2.36	0.40
1:A:153:ASP:C	1:A:155:SER:H	2.22	0.40
1:B:29:ARG:O	1:B:30:GLU:C	2.65	0.40
1:C:207:PRO:C	1:C:208:GLU:CG	2.95	0.40
1:D:30:GLU:CD	1:D:33:ARG:HH12	2.29	0.40
1:D:102:LEU:HD11	2:d:64:LEU:HA	2.03	0.40
1:E:231:LYS:O	1:E:235:GLU:HG2	2.22	0.40
1:F:84:ALA:O	1:F:88:VAL:HG22	2.20	0.40
1:F:88:VAL:O	1:F:92:ARG:HB3	2.22	0.40
1:F:121:LYS:HG3	1:F:133:PHE:HD1	1.87	0.40
1:F:153:ASP:HB3	1:F:156:GLY:O	2.21	0.40
1:G:93:ALA:O	1:G:95:LEU:N	2.55	0.40
1:G:100:TYR:CD2	1:G:100:TYR:C	3.00	0.40
1:G:186:THR:H	1:G:189:GLU:CB	2.34	0.40
2:b:102:LEU:HD22	2:b:103:THR:HA	2.01	0.40
2:b:158:GLU:C	2:b:160:GLY:H	2.30	0.40
2:c:12:LEU:HD23	2:c:12:LEU:H	1.87	0.40
2:d:202:LYS:HG3	2:d:203:ILE:H	1.84	0.40
2:e:97:ARG:C	2:e:99:PHE:H	2.28	0.40
2:f:96:SER:HB2	2:f:101:PHE:HB2	2.00	0.40
2:g:10:VAL:HG12	2:g:147:LEU:HD11	2.03	0.40
2:g:22:THR:O	2:g:168:LEU:HD22	2.21	0.40
2:g:142:ILE:CD1	2:g:174:ARG:O	2.70	0.40
2:g:155:MET:O	2:g:156:SER:C	2.65	0.40
1:H:53:ARG:HB2	1:H:209:ASN:O	2.21	0.40
1:H:123:ALA:C	1:H:125:THR:N	2.79	0.40
1:I:126:GLN:HB3	1:J:131:ARG:NE	2.36	0.40
1:I:218:LYS:O	1:I:219:ASP:HB3	2.20	0.40
1:J:15:VAL:HG21	1:J:24:GLN:HB2	2.03	0.40
1:J:32:VAL:C	1:J:34:ARG:H	2.29	0.40
1:J:214:ILE:CD1	1:J:225:ILE:HG13	2.52	0.40
1:K:67:LYS:HD2	1:K:67:LYS:HA	1.94	0.40
1:K:90:ILE:HD11	1:K:91:ASP:OD2	2.22	0.40
1:M:210:VAL:CG2	1:M:230:ILE:CG2	2.99	0.40
1:N:47:VAL:CG2	1:N:140:ALA:HB1	2.50	0.40
1:N:87:ARG:O	1:N:90:ILE:N	2.55	0.40
2:h:39:LYS:HA	2:h:51:ILE:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:86:ALA:C	2:k:88:LEU:H	2.28	0.40
2:l:55:VAL:HG23	2:l:56:GLY:H	1.86	0.40
2:l:121:LEU:HD12	2:l:127:MET:HA	2.02	0.40
2:m:44:ASP:O	2:m:46:TYR:N	2.54	0.40
2:n:122:ASP:HA	2:n:123:PRO:HD3	1.91	0.40
2:n:162:LYS:O	2:n:163:LEU:C	2.64	0.40
1:A:72:ASP:O	1:A:74:HIS:N	2.54	0.40
1:A:187:LEU:HD23	1:A:187:LEU:HA	1.81	0.40
1:B:94:ARG:HH11	2:b:75:ARG:HG2	1.86	0.40
1:B:95:LEU:C	1:B:97:ALA:N	2.80	0.40
1:C:48:VAL:CG1	1:C:49:LEU:N	2.84	0.40
1:C:181:TYR:C	1:C:182:ARG:HG3	2.47	0.40
1:D:42:ALA:HB3	1:D:162:LYS:O	2.21	0.40
1:E:224:LYS:HE3	1:E:225:ILE:H	1.86	0.40
1:G:198:LEU:O	1:G:199:THR:C	2.65	0.40
2:a:8:THR:OG1	2:a:139:GLY:O	2.28	0.40
2:a:188:THR:O	2:a:191:GLY:N	2.50	0.40
2:c:16:ASP:O	2:c:189:LYS:NZ	2.55	0.40
2:e:27:SER:HB2	2:e:177:PHE:CD1	2.57	0.40
2:e:135:ALA:HB3	2:e:144:TYR:CD1	2.57	0.40
2:e:165:LEU:O	2:e:167:ALA:N	2.54	0.40
2:e:169:LYS:HZ1	2:e:204:LEU:HD21	1.86	0.40
2:g:86:ALA:HB1	2:g:127:MET:CE	2.51	0.40
1:I:72:ASP:C	1:I:74:HIS:N	2.79	0.40
1:I:106:GLU:O	1:I:107:GLU:C	2.64	0.40
1:I:173:VAL:O	1:I:176:LEU:N	2.55	0.40
1:I:192:GLU:O	1:I:193:LEU:C	2.63	0.40
1:I:198:LEU:HD23	1:I:198:LEU:C	2.46	0.40
1:J:22:LEU:HD13	1:J:25:VAL:CG1	2.50	0.40
1:K:41:ILE:HG22	1:K:42:ALA:O	2.22	0.40
1:K:199:THR:O	1:K:202:ASN:N	2.55	0.40
1:L:71:ILE:C	2:l:74:MET:SD	3.04	0.40
1:L:83:VAL:HA	1:L:86:ALA:CB	2.52	0.40
1:M:66:GLU:OE1	1:M:69:PHE:HE1	2.05	0.40
2:h:45:ASP:O	2:h:192:VAL:HG23	2.21	0.40
2:h:105:ILE:HG22	2:h:121:LEU:CB	2.52	0.40
2:h:122:ASP:OD2	2:h:122:ASP:O	2.39	0.40
2:i:203:ILE:O	2:i:206:SER:N	2.54	0.40
2:j:83:LEU:H	2:j:83:LEU:CD2	2.18	0.40
2:j:200:ILE:O	2:j:201:GLU:C	2.65	0.40
2:k:25:ARG:HB2	2:k:180:ASN:HB3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:143:ALA:O	2:k:146:VAL:HB	2.22	0.40
2:l:88:LEU:HB3	2:l:92:ILE:HD11	2.03	0.40
2:l:94:HIS:O	2:l:94:HIS:CG	2.75	0.40
2:m:16:ASP:C	2:m:189:LYS:HZ1	2.29	0.40
2:m:80:ILE:N	2:m:80:ILE:CD1	2.75	0.40
2:n:44:ASP:O	2:n:46:TYR:N	2.55	0.40

All (7) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:232:LYS:O	2:c:110:TYR:OH[2_565]	1.88	0.32
1:I:242:ASN:O	2:m:205:ASP:OD1[4_555]	2.00	0.20
1:M:243:GLU:N	2:i:205:ASP:OD1[4_455]	2.03	0.17
1:E:180:GLU:O	1:E:182:ARG:NH2[2_665]	2.09	0.11
1:B:231:LYS:NZ	2:c:15:ASP:OD1[2_565]	2.17	0.03
1:F:184:ASP:O	2:f:154:ASP:OD1[2_665]	2.19	0.01
1:M:242:ASN:O	2:i:201:GLU:OE1[4_455]	2.19	0.01

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	230/264 (87%)	163 (71%)	43 (19%)	24 (10%)	0	7
1	B	230/264 (87%)	162 (70%)	46 (20%)	22 (10%)	0	8
1	C	230/264 (87%)	155 (67%)	51 (22%)	24 (10%)	0	7
1	D	230/264 (87%)	158 (69%)	47 (20%)	25 (11%)	0	6
1	E	230/264 (87%)	158 (69%)	47 (20%)	25 (11%)	0	6
1	F	230/264 (87%)	152 (66%)	53 (23%)	25 (11%)	0	6
1	G	230/264 (87%)	156 (68%)	51 (22%)	23 (10%)	0	8

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	H	230/264 (87%)	153 (66%)	49 (21%)	28 (12%)	0	4
1	I	230/264 (87%)	159 (69%)	44 (19%)	27 (12%)	0	4
1	J	230/264 (87%)	161 (70%)	45 (20%)	24 (10%)	0	7
1	K	230/264 (87%)	151 (66%)	51 (22%)	28 (12%)	0	4
1	L	230/264 (87%)	162 (70%)	39 (17%)	29 (13%)	0	4
1	M	230/264 (87%)	159 (69%)	45 (20%)	26 (11%)	0	5
1	N	230/264 (87%)	159 (69%)	48 (21%)	23 (10%)	0	8
2	a	200/219 (91%)	135 (68%)	45 (22%)	20 (10%)	0	8
2	b	200/219 (91%)	129 (64%)	53 (26%)	18 (9%)	0	10
2	c	200/219 (91%)	140 (70%)	45 (22%)	15 (8%)	1	12
2	d	200/219 (91%)	132 (66%)	46 (23%)	22 (11%)	0	6
2	e	200/219 (91%)	136 (68%)	46 (23%)	18 (9%)	0	10
2	f	200/219 (91%)	142 (71%)	42 (21%)	16 (8%)	1	11
2	g	200/219 (91%)	132 (66%)	43 (22%)	25 (12%)	0	4
2	h	200/219 (91%)	136 (68%)	44 (22%)	20 (10%)	0	8
2	i	200/219 (91%)	130 (65%)	46 (23%)	24 (12%)	0	4
2	j	200/219 (91%)	145 (72%)	39 (20%)	16 (8%)	1	11
2	k	200/219 (91%)	126 (63%)	50 (25%)	24 (12%)	0	4
2	l	200/219 (91%)	143 (72%)	37 (18%)	20 (10%)	0	8
2	m	200/219 (91%)	139 (70%)	43 (22%)	18 (9%)	0	10
2	n	200/219 (91%)	136 (68%)	46 (23%)	18 (9%)	0	10
All	All	6020/6762 (89%)	4109 (68%)	1284 (21%)	627 (10%)	0	7

All (627) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	23	TYR
1	A	43	CYS
1	A	132	PRO
1	A	155	SER
1	A	168	SER
1	A	191	LEU
1	A	208	GLU
1	A	219	ASP
1	B	19	GLU

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Mol	Chain	Res	Type
1	B	23	TYR
1	B	43	CYS
1	B	155	SER
1	B	208	GLU
1	B	219	ASP
1	C	23	TYR
1	C	25	VAL
1	C	43	CYS
1	C	168	SER
1	C	208	GLU
1	C	219	ASP
1	D	19	GLU
1	D	23	TYR
1	D	43	CYS
1	D	115	LYS
1	D	155	SER
1	D	208	GLU
1	D	219	ASP
1	E	23	TYR
1	E	43	CYS
1	E	168	SER
1	E	208	GLU
1	E	219	ASP
1	F	19	GLU
1	F	23	TYR
1	F	43	CYS
1	F	154	PRO
1	F	155	SER
1	F	168	SER
1	F	208	GLU
1	F	219	ASP
1	G	19	GLU
1	G	23	TYR
1	G	43	CYS
1	G	168	SER
1	G	178	GLU
1	G	219	ASP
2	a	70	LYS
2	a	103	THR
2	a	201	GLU
2	b	54	SER
2	b	55	VAL

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Mol	Chain	Res	Type
2	b	70	LYS
2	b	103	THR
2	b	156	SER
2	b	197	ASP
2	c	103	THR
2	c	156	SER
2	c	197	ASP
2	d	55	VAL
2	d	70	LYS
2	d	103	THR
2	d	105	ILE
2	d	156	SER
2	d	174	ARG
2	d	197	ASP
2	e	55	VAL
2	e	103	THR
2	e	197	ASP
2	f	83	LEU
2	f	103	THR
2	f	197	ASP
2	g	45	ASP
2	g	64	LEU
2	g	83	LEU
2	g	103	THR
2	g	105	ILE
2	g	197	ASP
1	H	19	GLU
1	H	23	TYR
1	H	43	CYS
1	H	91	ASP
1	H	155	SER
1	H	191	LEU
1	H	208	GLU
1	I	23	TYR
1	I	43	CYS
1	I	130	VAL
1	I	204	ASP
1	I	208	GLU
1	I	219	ASP
1	I	243	GLU
1	J	23	TYR
1	J	43	CYS

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Mol	Chain	Res	Type
1	J	154	PRO
1	J	168	SER
1	J	191	LEU
1	J	208	GLU
1	J	219	ASP
1	K	19	GLU
1	K	23	TYR
1	K	43	CYS
1	K	155	SER
1	K	208	GLU
1	K	219	ASP
1	L	19	GLU
1	L	23	TYR
1	L	43	CYS
1	L	91	ASP
1	L	208	GLU
1	L	219	ASP
1	M	19	GLU
1	M	23	TYR
1	M	43	CYS
1	M	155	SER
1	M	168	SER
1	M	191	LEU
1	M	208	GLU
1	M	219	ASP
1	N	23	TYR
1	N	43	CYS
1	N	91	ASP
1	N	168	SER
1	N	208	GLU
1	N	219	ASP
2	h	103	THR
2	h	156	SER
2	h	197	ASP
2	h	200	ILE
2	h	201	GLU
2	i	55	VAL
2	i	70	LYS
2	i	103	THR
2	i	105	ILE
2	i	156	SER
2	i	170	SER

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Mol	Chain	Res	Type
2	i	197	ASP
2	i	201	GLU
2	j	103	THR
2	j	105	ILE
2	j	156	SER
2	j	197	ASP
2	j	201	GLU
2	k	45	ASP
2	k	75	ARG
2	k	103	THR
2	k	105	ILE
2	k	156	SER
2	k	170	SER
2	k	197	ASP
2	l	55	VAL
2	l	70	LYS
2	l	83	LEU
2	l	103	THR
2	l	105	ILE
2	l	156	SER
2	l	197	ASP
2	m	54	SER
2	m	103	THR
2	m	156	SER
2	m	197	ASP
2	n	103	THR
2	n	156	SER
2	n	201	GLU
1	A	91	ASP
1	A	170	ARG
1	A	237	VAL
1	B	21	ARG
1	B	25	VAL
1	B	56	THR
1	B	168	SER
1	C	91	ASP
1	C	115	LYS
1	C	130	VAL
1	C	154	PRO
1	C	191	LEU
1	D	55	ILE
1	D	65	ILE

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Mol	Chain	Res	Type
1	D	154	PRO
1	D	178	GLU
1	D	183	ASP
1	D	191	LEU
1	D	237	VAL
1	E	65	ILE
1	E	91	ASP
1	E	130	VAL
1	E	155	SER
1	E	191	LEU
1	F	21	ARG
1	F	35	GLY
1	F	65	ILE
1	F	130	VAL
1	F	185	ILE
1	F	191	LEU
1	G	80	SER
1	G	91	ASP
1	G	120	ILE
1	G	130	VAL
1	G	154	PRO
1	G	155	SER
1	G	163	ALA
1	G	183	ASP
2	a	55	VAL
2	a	83	LEU
2	a	105	ILE
2	a	148	GLU
2	a	156	SER
2	a	197	ASP
2	b	64	LEU
2	b	77	GLY
2	b	83	LEU
2	c	24	LYS
2	c	64	LEU
2	c	70	LYS
2	c	77	GLY
2	c	105	ILE
2	d	45	ASP
2	d	77	GLY
2	e	36	GLU
2	e	54	SER

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Mol	Chain	Res	Type
2	e	70	LYS
2	e	77	GLY
2	e	105	ILE
2	f	55	VAL
2	f	64	LEU
2	f	70	LYS
2	f	105	ILE
2	f	112	LEU
2	g	54	SER
2	g	55	VAL
2	g	70	LYS
2	g	77	GLY
2	g	104	GLN
2	g	156	SER
2	g	171	ALA
1	H	56	THR
1	H	115	LYS
1	H	129	GLY
1	H	154	PRO
1	H	178	GLU
1	H	204	ASP
1	H	219	ASP
1	H	228	GLU
1	H	230	ILE
1	H	237	VAL
1	I	19	GLU
1	I	91	ASP
1	I	115	LYS
1	I	155	SER
1	I	168	SER
1	I	170	ARG
1	I	191	LEU
1	J	19	GLU
1	J	56	THR
1	J	65	ILE
1	J	155	SER
1	K	35	GLY
1	K	44	LYS
1	K	80	SER
1	K	91	ASP
1	K	132	PRO
1	K	168	SER

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Mol	Chain	Res	Type
1	K	178	GLU
1	K	183	ASP
1	K	237	VAL
1	K	243	GLU
1	L	56	THR
1	L	73	ASP
1	L	115	LYS
1	L	154	PRO
1	L	155	SER
1	L	163	ALA
1	L	168	SER
1	L	178	GLU
1	L	237	VAL
1	M	25	VAL
1	M	91	ASP
1	M	163	ALA
1	M	237	VAL
1	N	55	ILE
1	N	163	ALA
1	N	178	GLU
1	N	237	VAL
2	h	36	GLU
2	h	55	VAL
2	h	62	VAL
2	h	64	LEU
2	h	70	LYS
2	h	174	ARG
2	i	36	GLU
2	i	56	GLY
2	i	77	GLY
2	i	79	ASN
2	i	83	LEU
2	i	200	ILE
2	j	64	LEU
2	j	70	LYS
2	j	77	GLY
2	j	189	LYS
2	j	200	ILE
2	k	55	VAL
2	k	61	ILE
2	k	64	LEU
2	k	70	LYS

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Mol	Chain	Res	Type
2	k	83	LEU
2	k	157	VAL
2	k	201	GLU
2	l	45	ASP
2	l	59	GLN
2	l	77	GLY
2	l	112	LEU
2	l	148	GLU
2	m	55	VAL
2	m	77	GLY
2	m	112	LEU
2	m	170	SER
2	m	201	GLU
2	m	204	LEU
2	n	24	LYS
2	n	77	GLY
2	n	197	ASP
2	n	200	ILE
1	A	19	GLU
1	A	130	VAL
1	A	154	PRO
1	A	163	ALA
1	A	174	MET
1	A	178	GLU
1	A	183	ASP
1	B	91	ASP
1	B	104	TYR
1	B	154	PRO
1	B	191	LEU
1	B	232	LYS
1	C	19	GLU
1	C	21	ARG
1	C	236	LYS
1	D	33	ARG
1	D	56	THR
1	D	228	GLU
1	E	19	GLU
1	E	154	PRO
1	E	170	ARG
1	F	104	TYR
1	F	183	ASP
1	F	236	LYS

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Mol	Chain	Res	Type
1	G	104	TYR
1	G	228	GLU
2	a	77	GLY
2	a	112	LEU
2	a	189	LYS
2	a	200	ILE
2	b	112	LEU
2	b	201	GLU
2	b	207	MET
2	c	83	LEU
2	c	202	LYS
2	d	138	SER
2	e	155	MET
2	f	78	ARG
2	f	155	MET
2	f	181	GLY
2	f	189	LYS
2	f	201	GLU
2	g	71	LEU
2	g	157	VAL
2	g	170	SER
2	g	182	ILE
2	g	201	GLU
1	H	163	ALA
1	H	168	SER
1	I	55	ILE
1	I	154	PRO
1	J	55	ILE
1	J	178	GLU
1	J	183	ASP
1	J	185	ILE
1	J	197	ALA
1	J	204	ASP
1	K	65	ILE
1	K	104	TYR
1	K	154	PRO
1	K	163	ALA
1	K	193	LEU
1	L	44	LYS
1	L	174	MET
1	L	204	ASP
1	M	21	ARG

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Mol	Chain	Res	Type
1	M	104	TYR
1	M	154	PRO
1	M	157	ALA
1	M	178	GLU
1	N	21	ARG
1	N	56	THR
1	N	154	PRO
1	N	183	ASP
1	N	191	LEU
1	N	232	LYS
2	h	77	GLY
2	h	170	SER
2	i	71	LEU
2	j	24	LYS
2	j	59	GLN
2	j	138	SER
2	k	74	MET
2	k	77	GLY
2	k	78	ARG
2	l	189	LYS
2	m	24	LYS
2	m	70	LYS
2	m	189	LYS
2	n	55	VAL
2	n	64	LEU
2	n	70	LYS
2	n	105	ILE
2	n	189	LYS
1	A	55	ILE
1	A	56	THR
1	A	228	GLU
1	B	183	ASP
1	C	114	ALA
1	C	155	SER
1	C	163	ALA
1	C	183	ASP
1	C	237	VAL
1	D	15	VAL
1	D	163	ALA
1	D	193	LEU
1	E	104	TYR
1	E	115	LYS

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Mol	Chain	Res	Type
1	E	163	ALA
1	E	236	LYS
1	F	56	THR
1	F	91	ASP
1	G	115	LYS
1	G	191	LEU
2	a	59	GLN
2	a	138	SER
2	c	16	ASP
2	d	24	LYS
2	d	80	ILE
2	d	112	LEU
2	d	125	GLY
2	d	146	VAL
2	d	170	SER
2	d	201	GLU
2	e	112	LEU
2	e	166	ASN
2	e	181	GLY
2	e	201	GLU
2	f	80	ILE
2	g	207	MET
1	H	21	ARG
1	H	65	ILE
1	H	130	VAL
1	I	21	ARG
1	I	104	TYR
1	I	163	ALA
1	J	237	VAL
1	K	24	GLN
1	K	124	TYR
1	K	228	GLU
1	L	16	PHE
1	L	130	VAL
1	L	183	ASP
1	L	191	LEU
1	L	228	GLU
1	M	144	LYS
1	M	174	MET
1	M	183	ASP
1	N	19	GLU
2	h	105	ILE

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Mol	Chain	Res	Type
2	h	112	LEU
2	h	125	GLY
2	i	62	VAL
2	i	64	LEU
2	i	150	GLY
2	j	65	LEU
2	k	112	LEU
2	l	56	GLY
2	l	64	LEU
2	m	16	ASP
2	m	78	ARG
2	m	83	LEU
2	m	174	ARG
2	n	83	LEU
2	n	164	ALA
2	n	167	ALA
1	A	73	ASP
1	A	104	TYR
1	A	236	LYS
1	B	157	ALA
1	B	204	ASP
1	B	228	GLU
1	C	104	TYR
1	C	174	MET
1	D	25	VAL
1	D	104	TYR
1	D	174	MET
1	D	236	LYS
1	E	80	SER
1	E	87	ARG
1	E	185	ILE
1	F	80	SER
1	F	204	ASP
1	G	208	GLU
2	a	64	LEU
2	a	78	ARG
2	a	80	ILE
2	a	170	SER
2	b	24	LYS
2	b	189	LYS
2	c	189	LYS
2	d	98	MET

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Mol	Chain	Res	Type
2	e	65	LEU
2	e	80	ILE
2	f	166	ASN
2	g	72	TYR
2	g	80	ILE
2	g	82	PRO
2	g	148	GLU
2	g	162	LYS
1	H	44	LYS
1	H	183	ASP
1	I	44	LYS
1	I	65	ILE
1	I	183	ASP
1	I	228	GLU
1	I	237	VAL
1	J	87	ARG
1	J	91	ASP
1	J	104	TYR
1	J	145	ASN
1	K	73	ASP
1	K	197	ALA
1	L	15	VAL
1	L	114	ALA
1	L	145	ASN
1	M	195	ILE
1	M	228	GLU
1	N	62	ILE
1	N	104	TYR
1	N	155	SER
1	N	236	LYS
2	h	80	ILE
2	h	138	SER
2	h	198	GLU
2	i	24	LYS
2	i	59	GLN
2	i	80	ILE
2	j	55	VAL
2	k	24	LYS
2	l	8	THR
2	l	61	ILE
1	B	237	VAL
1	C	56	THR

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Mol	Chain	Res	Type
1	F	47	VAL
1	G	35	GLY
1	G	157	ALA
1	G	185	ILE
1	G	204	ASP
2	a	125	GLY
2	b	80	ILE
2	b	82	PRO
2	b	200	ILE
2	c	55	VAL
2	c	80	ILE
2	c	112	LEU
2	d	124	LEU
2	d	159	GLU
2	e	24	LYS
2	g	189	LYS
1	H	87	ARG
1	H	114	ALA
1	K	236	LYS
1	M	132	PRO
1	N	96	GLU
2	h	142	ILE
2	i	125	GLY
2	i	166	ASN
2	k	125	GLY
2	k	145	GLY
2	l	87	THR
2	n	80	ILE
2	n	94	HIS
2	n	202	LYS
1	B	185	ILE
1	E	132	PRO
1	E	237	VAL
1	F	55	ILE
1	F	120	ILE
1	F	237	VAL
2	d	142	ILE
1	H	128	GLY
1	H	185	ILE
1	I	156	GLY
1	J	88	VAL
1	K	130	VAL

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Mol	Chain	Res	Type
1	L	132	PRO
1	L	170	ARG
1	M	55	ILE
1	M	65	ILE
1	M	185	ILE
2	l	62	VAL
2	m	80	ILE
1	C	132	PRO
2	d	62	VAL
1	I	129	GLY
1	I	185	ILE
2	i	181	GLY
1	B	65	ILE
1	E	15	VAL
1	E	35	GLY
1	E	88	VAL
2	e	145	GLY
2	f	82	PRO
1	L	230	ILE
2	j	62	VAL
2	k	80	ILE
2	k	200	ILE
2	l	82	PRO
1	C	15	VAL
1	D	185	ILE
2	e	203	ILE
1	J	15	VAL
1	N	230	ILE
2	k	82	PRO
2	b	146	VAL

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	195/224 (87%)	162 (83%)	33 (17%)	2 12

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	195/224 (87%)	162 (83%)	33 (17%)	2	12
1	C	195/224 (87%)	157 (80%)	38 (20%)	1	9
1	D	195/224 (87%)	160 (82%)	35 (18%)	2	11
1	E	195/224 (87%)	157 (80%)	38 (20%)	1	9
1	F	195/224 (87%)	156 (80%)	39 (20%)	1	9
1	G	195/224 (87%)	158 (81%)	37 (19%)	1	10
1	H	195/224 (87%)	159 (82%)	36 (18%)	1	10
1	I	195/224 (87%)	160 (82%)	35 (18%)	2	11
1	J	195/224 (87%)	159 (82%)	36 (18%)	1	10
1	K	195/224 (87%)	163 (84%)	32 (16%)	2	13
1	L	195/224 (87%)	158 (81%)	37 (19%)	1	10
1	M	195/224 (87%)	163 (84%)	32 (16%)	2	13
1	N	195/224 (87%)	162 (83%)	33 (17%)	2	12
2	a	163/179 (91%)	131 (80%)	32 (20%)	1	9
2	b	163/179 (91%)	125 (77%)	38 (23%)	1	5
2	c	163/179 (91%)	130 (80%)	33 (20%)	1	8
2	d	163/179 (91%)	121 (74%)	42 (26%)	0	4
2	e	163/179 (91%)	124 (76%)	39 (24%)	1	5
2	f	163/179 (91%)	128 (78%)	35 (22%)	1	6
2	g	163/179 (91%)	129 (79%)	34 (21%)	1	7
2	h	163/179 (91%)	129 (79%)	34 (21%)	1	7
2	i	163/179 (91%)	129 (79%)	34 (21%)	1	7
2	j	163/179 (91%)	126 (77%)	37 (23%)	1	6
2	k	163/179 (91%)	130 (80%)	33 (20%)	1	8
2	l	163/179 (91%)	127 (78%)	36 (22%)	1	6
2	m	163/179 (91%)	122 (75%)	41 (25%)	0	4
2	n	163/179 (91%)	128 (78%)	35 (22%)	1	6
All	All	5012/5642 (89%)	4015 (80%)	997 (20%)	1	9

All (997) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	ILE

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Mol	Chain	Res	Type
1	A	15	VAL
1	A	17	SER
1	A	19	GLU
1	A	25	VAL
1	A	37	THR
1	A	45	ASP
1	A	49	LEU
1	A	51	VAL
1	A	58	LYS
1	A	60	VAL
1	A	68	ILE
1	A	82	LEU
1	A	83	VAL
1	A	90	ILE
1	A	95	LEU
1	A	102	LEU
1	A	108	ILE
1	A	117	ILE
1	A	135	VAL
1	A	139	ILE
1	A	153	ASP
1	A	159	ILE
1	A	176	LEU
1	A	184	ASP
1	A	193	LEU
1	A	205	ILE
1	A	208	GLU
1	A	209	ASN
1	A	211	ASP
1	A	212	VAL
1	A	225	ILE
1	A	242	ASN
1	B	13	ILE
1	B	17	SER
1	B	19	GLU
1	B	36	THR
1	B	45	ASP
1	B	51	VAL
1	B	55	ILE
1	B	58	LYS
1	B	60	VAL
1	B	67	LYS

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Mol	Chain	Res	Type
1	B	68	ILE
1	B	82	LEU
1	B	83	VAL
1	B	88	VAL
1	B	90	ILE
1	B	99	ILE
1	B	102	LEU
1	B	117	ILE
1	B	121	LYS
1	B	135	VAL
1	B	136	SER
1	B	139	ILE
1	B	153	ASP
1	B	159	ILE
1	B	162	LYS
1	B	185	ILE
1	B	205	ILE
1	B	208	GLU
1	B	211	ASP
1	B	212	VAL
1	B	214	ILE
1	B	225	ILE
1	B	242	ASN
1	C	13	ILE
1	C	15	VAL
1	C	17	SER
1	C	19	GLU
1	C	32	VAL
1	C	36	THR
1	C	37	THR
1	C	45	ASP
1	C	49	LEU
1	C	51	VAL
1	C	55	ILE
1	C	58	LYS
1	C	60	VAL
1	C	68	ILE
1	C	82	LEU
1	C	83	VAL
1	C	88	VAL
1	C	95	LEU
1	C	99	ILE

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Mol	Chain	Res	Type
1	C	108	ILE
1	C	117	ILE
1	C	118	CYS
1	C	121	LYS
1	C	135	VAL
1	C	153	ASP
1	C	159	ILE
1	C	162	LYS
1	C	185	ILE
1	C	193	LEU
1	C	196	THR
1	C	205	ILE
1	C	208	GLU
1	C	210	VAL
1	C	212	VAL
1	C	225	ILE
1	C	234	ILE
1	C	237	VAL
1	C	242	ASN
1	D	13	ILE
1	D	15	VAL
1	D	19	GLU
1	D	32	VAL
1	D	37	THR
1	D	45	ASP
1	D	49	LEU
1	D	51	VAL
1	D	55	ILE
1	D	58	LYS
1	D	60	VAL
1	D	68	ILE
1	D	82	LEU
1	D	83	VAL
1	D	88	VAL
1	D	90	ILE
1	D	95	LEU
1	D	102	LEU
1	D	117	ILE
1	D	121	LYS
1	D	135	VAL
1	D	153	ASP
1	D	159	ILE

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Mol	Chain	Res	Type
1	D	173	VAL
1	D	196	THR
1	D	203	GLU
1	D	205	ILE
1	D	208	GLU
1	D	210	VAL
1	D	211	ASP
1	D	212	VAL
1	D	214	ILE
1	D	222	PHE
1	D	225	ILE
1	D	242	ASN
1	E	13	ILE
1	E	15	VAL
1	E	19	GLU
1	E	36	THR
1	E	37	THR
1	E	45	ASP
1	E	49	LEU
1	E	51	VAL
1	E	55	ILE
1	E	58	LYS
1	E	60	VAL
1	E	65	ILE
1	E	67	LYS
1	E	68	ILE
1	E	82	LEU
1	E	83	VAL
1	E	85	ASP
1	E	103	THR
1	E	108	ILE
1	E	117	ILE
1	E	121	LYS
1	E	125	THR
1	E	130	VAL
1	E	135	VAL
1	E	139	ILE
1	E	153	ASP
1	E	159	ILE
1	E	162	LYS
1	E	184	ASP
1	E	196	THR

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Mol	Chain	Res	Type
1	E	205	ILE
1	E	208	GLU
1	E	210	VAL
1	E	211	ASP
1	E	212	VAL
1	E	225	ILE
1	E	237	VAL
1	E	242	ASN
1	F	13	ILE
1	F	15	VAL
1	F	19	GLU
1	F	25	VAL
1	F	32	VAL
1	F	36	THR
1	F	37	THR
1	F	45	ASP
1	F	47	VAL
1	F	58	LYS
1	F	60	VAL
1	F	68	ILE
1	F	79	THR
1	F	82	LEU
1	F	83	VAL
1	F	88	VAL
1	F	90	ILE
1	F	96	GLU
1	F	99	ILE
1	F	109	SER
1	F	117	ILE
1	F	118	CYS
1	F	121	LYS
1	F	125	THR
1	F	135	VAL
1	F	159	ILE
1	F	168	SER
1	F	177	LEU
1	F	180	GLU
1	F	193	LEU
1	F	196	THR
1	F	205	ILE
1	F	208	GLU
1	F	211	ASP

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Mol	Chain	Res	Type
1	F	212	VAL
1	F	214	ILE
1	F	222	PHE
1	F	225	ILE
1	F	242	ASN
1	G	13	ILE
1	G	15	VAL
1	G	17	SER
1	G	19	GLU
1	G	36	THR
1	G	45	ASP
1	G	51	VAL
1	G	55	ILE
1	G	58	LYS
1	G	60	VAL
1	G	68	ILE
1	G	82	LEU
1	G	83	VAL
1	G	88	VAL
1	G	90	ILE
1	G	102	LEU
1	G	103	THR
1	G	108	ILE
1	G	117	ILE
1	G	135	VAL
1	G	153	ASP
1	G	159	ILE
1	G	168	SER
1	G	176	LEU
1	G	180	GLU
1	G	193	LEU
1	G	195	ILE
1	G	196	THR
1	G	205	ILE
1	G	208	GLU
1	G	210	VAL
1	G	211	ASP
1	G	212	VAL
1	G	214	ILE
1	G	222	PHE
1	G	225	ILE
1	G	242	ASN

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Mol	Chain	Res	Type
2	a	10	VAL
2	a	23	ASP
2	a	27	SER
2	a	35	LYS
2	a	43	ILE
2	a	45	ASP
2	a	50	THR
2	a	51	ILE
2	a	55	VAL
2	a	61	ILE
2	a	80	ILE
2	a	83	LEU
2	a	85	CYS
2	a	87	THR
2	a	93	LEU
2	a	96	SER
2	a	102	LEU
2	a	105	ILE
2	a	107	ILE
2	a	121	LEU
2	a	124	LEU
2	a	128	ASN
2	a	136	THR
2	a	154	ASP
2	a	155	MET
2	a	161	ILE
2	a	184	LEU
2	a	187	ILE
2	a	189	LYS
2	a	194	ILE
2	a	199	GLU
2	a	203	ILE
2	b	10	VAL
2	b	23	ASP
2	b	27	SER
2	b	30	ASN
2	b	34	ASP
2	b	35	LYS
2	b	43	ILE
2	b	45	ASP
2	b	50	THR
2	b	55	VAL

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Mol	Chain	Res	Type
2	b	61	ILE
2	b	72	TYR
2	b	80	ILE
2	b	83	LEU
2	b	85	CYS
2	b	87	THR
2	b	88	LEU
2	b	93	LEU
2	b	97	ARG
2	b	102	LEU
2	b	104	GLN
2	b	105	ILE
2	b	107	ILE
2	b	113	LEU
2	b	121	LEU
2	b	122	ASP
2	b	124	LEU
2	b	128	ASN
2	b	134	THR
2	b	154	ASP
2	b	182	ILE
2	b	187	ILE
2	b	188	THR
2	b	189	LYS
2	b	194	ILE
2	b	199	GLU
2	b	201	GLU
2	b	202	LYS
2	c	10	VAL
2	c	16	ASP
2	c	23	ASP
2	c	27	SER
2	c	34	ASP
2	c	35	LYS
2	c	43	ILE
2	c	50	THR
2	c	55	VAL
2	c	61	ILE
2	c	72	TYR
2	c	80	ILE
2	c	83	LEU
2	c	85	CYS

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Mol	Chain	Res	Type
2	c	93	LEU
2	c	97	ARG
2	c	102	LEU
2	c	104	GLN
2	c	105	ILE
2	c	107	ILE
2	c	113	LEU
2	c	121	LEU
2	c	124	LEU
2	c	154	ASP
2	c	161	ILE
2	c	176	THR
2	c	184	LEU
2	c	187	ILE
2	c	189	LYS
2	c	194	ILE
2	c	199	GLU
2	c	202	LYS
2	c	203	ILE
2	d	7	THR
2	d	10	VAL
2	d	16	ASP
2	d	23	ASP
2	d	27	SER
2	d	32	VAL
2	d	34	ASP
2	d	35	LYS
2	d	43	ILE
2	d	50	THR
2	d	55	VAL
2	d	57	ASP
2	d	59	GLN
2	d	61	ILE
2	d	71	LEU
2	d	72	TYR
2	d	80	ILE
2	d	85	CYS
2	d	87	THR
2	d	88	LEU
2	d	93	LEU
2	d	102	LEU
2	d	103	THR

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Mol	Chain	Res	Type
2	d	104	GLN
2	d	105	ILE
2	d	107	ILE
2	d	113	LEU
2	d	120	SER
2	d	121	LEU
2	d	124	LEU
2	d	128	ASN
2	d	132	THR
2	d	134	THR
2	d	140	SER
2	d	144	TYR
2	d	154	ASP
2	d	184	LEU
2	d	187	ILE
2	d	189	LYS
2	d	194	ILE
2	d	199	GLU
2	d	202	LYS
2	e	10	VAL
2	e	23	ASP
2	e	27	SER
2	e	30	ASN
2	e	34	ASP
2	e	35	LYS
2	e	43	ILE
2	e	45	ASP
2	e	55	VAL
2	e	57	ASP
2	e	59	GLN
2	e	61	ILE
2	e	72	TYR
2	e	80	ILE
2	e	83	LEU
2	e	85	CYS
2	e	87	THR
2	e	88	LEU
2	e	96	SER
2	e	102	LEU
2	e	105	ILE
2	e	107	ILE
2	e	113	LEU

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Mol	Chain	Res	Type
2	e	121	LEU
2	e	124	LEU
2	e	134	THR
2	e	144	TYR
2	e	154	ASP
2	e	155	MET
2	e	161	ILE
2	e	176	THR
2	e	183	SER
2	e	184	LEU
2	e	187	ILE
2	e	189	LYS
2	e	194	ILE
2	e	198	GLU
2	e	199	GLU
2	e	203	ILE
2	f	10	VAL
2	f	12	LEU
2	f	23	ASP
2	f	27	SER
2	f	30	ASN
2	f	34	ASP
2	f	35	LYS
2	f	43	ILE
2	f	45	ASP
2	f	50	THR
2	f	55	VAL
2	f	57	ASP
2	f	61	ILE
2	f	72	TYR
2	f	80	ILE
2	f	83	LEU
2	f	85	CYS
2	f	88	LEU
2	f	93	LEU
2	f	102	LEU
2	f	104	GLN
2	f	105	ILE
2	f	107	ILE
2	f	121	LEU
2	f	124	LEU
2	f	144	TYR

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Mol	Chain	Res	Type
2	f	154	ASP
2	f	155	MET
2	f	182	ILE
2	f	183	SER
2	f	184	LEU
2	f	187	ILE
2	f	189	LYS
2	f	194	ILE
2	f	199	GLU
2	g	10	VAL
2	g	18	VAL
2	g	23	ASP
2	g	27	SER
2	g	34	ASP
2	g	35	LYS
2	g	43	ILE
2	g	45	ASP
2	g	47	ILE
2	g	50	THR
2	g	55	VAL
2	g	61	ILE
2	g	80	ILE
2	g	87	THR
2	g	93	LEU
2	g	96	SER
2	g	102	LEU
2	g	105	ILE
2	g	113	LEU
2	g	121	LEU
2	g	124	LEU
2	g	128	ASN
2	g	136	THR
2	g	138	SER
2	g	154	ASP
2	g	183	SER
2	g	184	LEU
2	g	187	ILE
2	g	189	LYS
2	g	194	ILE
2	g	198	GLU
2	g	199	GLU
2	g	202	LYS

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Mol	Chain	Res	Type
2	g	203	ILE
1	H	13	ILE
1	H	15	VAL
1	H	17	SER
1	H	19	GLU
1	H	25	VAL
1	H	32	VAL
1	H	36	THR
1	H	37	THR
1	H	45	ASP
1	H	49	LEU
1	H	55	ILE
1	H	58	LYS
1	H	60	VAL
1	H	68	ILE
1	H	82	LEU
1	H	83	VAL
1	H	88	VAL
1	H	90	ILE
1	H	99	ILE
1	H	102	LEU
1	H	117	ILE
1	H	121	LYS
1	H	135	VAL
1	H	153	ASP
1	H	159	ILE
1	H	176	LEU
1	H	193	LEU
1	H	195	ILE
1	H	196	THR
1	H	205	ILE
1	H	208	GLU
1	H	211	ASP
1	H	212	VAL
1	H	222	PHE
1	H	225	ILE
1	H	242	ASN
1	I	13	ILE
1	I	15	VAL
1	I	19	GLU
1	I	25	VAL
1	I	36	THR

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Mol	Chain	Res	Type
1	I	37	THR
1	I	45	ASP
1	I	49	LEU
1	I	51	VAL
1	I	58	LYS
1	I	60	VAL
1	I	68	ILE
1	I	82	LEU
1	I	83	VAL
1	I	85	ASP
1	I	88	VAL
1	I	108	ILE
1	I	117	ILE
1	I	118	CYS
1	I	121	LYS
1	I	135	VAL
1	I	153	ASP
1	I	159	ILE
1	I	162	LYS
1	I	196	THR
1	I	203	GLU
1	I	205	ILE
1	I	208	GLU
1	I	210	VAL
1	I	212	VAL
1	I	222	PHE
1	I	225	ILE
1	I	237	VAL
1	I	242	ASN
1	I	243	GLU
1	J	13	ILE
1	J	15	VAL
1	J	19	GLU
1	J	25	VAL
1	J	36	THR
1	J	37	THR
1	J	45	ASP
1	J	47	VAL
1	J	49	LEU
1	J	51	VAL
1	J	55	ILE
1	J	58	LYS

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Mol	Chain	Res	Type
1	J	60	VAL
1	J	68	ILE
1	J	82	LEU
1	J	83	VAL
1	J	90	ILE
1	J	96	GLU
1	J	110	ILE
1	J	117	ILE
1	J	118	CYS
1	J	135	VAL
1	J	153	ASP
1	J	159	ILE
1	J	164	THR
1	J	180	GLU
1	J	185	ILE
1	J	196	THR
1	J	205	ILE
1	J	208	GLU
1	J	211	ASP
1	J	212	VAL
1	J	214	ILE
1	J	222	PHE
1	J	225	ILE
1	J	242	ASN
1	K	13	ILE
1	K	15	VAL
1	K	19	GLU
1	K	32	VAL
1	K	36	THR
1	K	37	THR
1	K	45	ASP
1	K	51	VAL
1	K	55	ILE
1	K	58	LYS
1	K	60	VAL
1	K	68	ILE
1	K	82	LEU
1	K	83	VAL
1	K	88	VAL
1	K	90	ILE
1	K	108	ILE
1	K	117	ILE

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Mol	Chain	Res	Type
1	K	135	VAL
1	K	153	ASP
1	K	159	ILE
1	K	168	SER
1	K	180	GLU
1	K	185	ILE
1	K	205	ILE
1	K	208	GLU
1	K	211	ASP
1	K	212	VAL
1	K	222	PHE
1	K	225	ILE
1	K	237	VAL
1	K	242	ASN
1	L	13	ILE
1	L	15	VAL
1	L	17	SER
1	L	19	GLU
1	L	25	VAL
1	L	32	VAL
1	L	37	THR
1	L	45	ASP
1	L	49	LEU
1	L	51	VAL
1	L	58	LYS
1	L	60	VAL
1	L	68	ILE
1	L	82	LEU
1	L	83	VAL
1	L	90	ILE
1	L	95	LEU
1	L	99	ILE
1	L	102	LEU
1	L	108	ILE
1	L	117	ILE
1	L	135	VAL
1	L	153	ASP
1	L	159	ILE
1	L	162	LYS
1	L	176	LEU
1	L	180	GLU
1	L	193	LEU

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Mol	Chain	Res	Type
1	L	196	THR
1	L	205	ILE
1	L	208	GLU
1	L	210	VAL
1	L	211	ASP
1	L	212	VAL
1	L	222	PHE
1	L	225	ILE
1	L	242	ASN
1	M	13	ILE
1	M	15	VAL
1	M	17	SER
1	M	19	GLU
1	M	37	THR
1	M	51	VAL
1	M	55	ILE
1	M	58	LYS
1	M	60	VAL
1	M	68	ILE
1	M	82	LEU
1	M	83	VAL
1	M	88	VAL
1	M	90	ILE
1	M	99	ILE
1	M	102	LEU
1	M	108	ILE
1	M	117	ILE
1	M	135	VAL
1	M	139	ILE
1	M	153	ASP
1	M	159	ILE
1	M	162	LYS
1	M	185	ILE
1	M	195	ILE
1	M	196	THR
1	M	205	ILE
1	M	208	GLU
1	M	211	ASP
1	M	212	VAL
1	M	225	ILE
1	M	242	ASN
1	N	13	ILE

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Mol	Chain	Res	Type
1	N	15	VAL
1	N	19	GLU
1	N	25	VAL
1	N	36	THR
1	N	37	THR
1	N	45	ASP
1	N	49	LEU
1	N	51	VAL
1	N	55	ILE
1	N	58	LYS
1	N	60	VAL
1	N	67	LYS
1	N	68	ILE
1	N	82	LEU
1	N	83	VAL
1	N	90	ILE
1	N	95	LEU
1	N	99	ILE
1	N	102	LEU
1	N	108	ILE
1	N	117	ILE
1	N	135	VAL
1	N	159	ILE
1	N	184	ASP
1	N	185	ILE
1	N	193	LEU
1	N	205	ILE
1	N	208	GLU
1	N	211	ASP
1	N	212	VAL
1	N	225	ILE
1	N	242	ASN
2	h	10	VAL
2	h	16	ASP
2	h	23	ASP
2	h	27	SER
2	h	32	VAL
2	h	35	LYS
2	h	43	ILE
2	h	50	THR
2	h	55	VAL
2	h	57	ASP

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Mol	Chain	Res	Type
2	h	61	ILE
2	h	72	TYR
2	h	80	ILE
2	h	83	LEU
2	h	85	CYS
2	h	87	THR
2	h	93	LEU
2	h	102	LEU
2	h	104	GLN
2	h	105	ILE
2	h	107	ILE
2	h	113	LEU
2	h	121	LEU
2	h	124	LEU
2	h	134	THR
2	h	140	SER
2	h	154	ASP
2	h	155	MET
2	h	184	LEU
2	h	187	ILE
2	h	189	LYS
2	h	194	ILE
2	h	199	GLU
2	h	202	LYS
2	i	10	VAL
2	i	19	ILE
2	i	23	ASP
2	i	27	SER
2	i	34	ASP
2	i	35	LYS
2	i	43	ILE
2	i	45	ASP
2	i	50	THR
2	i	55	VAL
2	i	61	ILE
2	i	72	TYR
2	i	80	ILE
2	i	83	LEU
2	i	85	CYS
2	i	87	THR
2	i	88	LEU
2	i	93	LEU

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Mol	Chain	Res	Type
2	i	102	LEU
2	i	104	GLN
2	i	105	ILE
2	i	107	ILE
2	i	113	LEU
2	i	121	LEU
2	i	124	LEU
2	i	140	SER
2	i	184	LEU
2	i	187	ILE
2	i	189	LYS
2	i	194	ILE
2	i	198	GLU
2	i	199	GLU
2	i	202	LYS
2	i	203	ILE
2	j	10	VAL
2	j	27	SER
2	j	30	ASN
2	j	43	ILE
2	j	45	ASP
2	j	50	THR
2	j	51	ILE
2	j	55	VAL
2	j	57	ASP
2	j	61	ILE
2	j	66	ILE
2	j	75	ARG
2	j	80	ILE
2	j	83	LEU
2	j	87	THR
2	j	93	LEU
2	j	102	LEU
2	j	103	THR
2	j	104	GLN
2	j	105	ILE
2	j	107	ILE
2	j	113	LEU
2	j	121	LEU
2	j	124	LEU
2	j	128	ASN
2	j	132	THR

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Mol	Chain	Res	Type
2	j	136	THR
2	j	144	TYR
2	j	154	ASP
2	j	182	ILE
2	j	183	SER
2	j	187	ILE
2	j	189	LYS
2	j	190	ASP
2	j	194	ILE
2	j	199	GLU
2	j	202	LYS
2	k	10	VAL
2	k	27	SER
2	k	32	VAL
2	k	34	ASP
2	k	35	LYS
2	k	43	ILE
2	k	45	ASP
2	k	55	VAL
2	k	61	ILE
2	k	71	LEU
2	k	80	ILE
2	k	83	LEU
2	k	87	THR
2	k	88	LEU
2	k	93	LEU
2	k	96	SER
2	k	102	LEU
2	k	103	THR
2	k	105	ILE
2	k	107	ILE
2	k	113	LEU
2	k	121	LEU
2	k	124	LEU
2	k	134	THR
2	k	154	ASP
2	k	161	ILE
2	k	182	ILE
2	k	183	SER
2	k	184	LEU
2	k	187	ILE
2	k	189	LYS

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Mol	Chain	Res	Type
2	k	194	ILE
2	k	199	GLU
2	l	7	THR
2	l	10	VAL
2	l	23	ASP
2	l	27	SER
2	l	34	ASP
2	l	35	LYS
2	l	43	ILE
2	l	45	ASP
2	l	57	ASP
2	l	61	ILE
2	l	80	ILE
2	l	83	LEU
2	l	85	CYS
2	l	87	THR
2	l	88	LEU
2	l	93	LEU
2	l	96	SER
2	l	102	LEU
2	l	103	THR
2	l	105	ILE
2	l	107	ILE
2	l	113	LEU
2	l	121	LEU
2	l	124	LEU
2	l	134	THR
2	l	138	SER
2	l	154	ASP
2	l	155	MET
2	l	161	ILE
2	l	184	LEU
2	l	187	ILE
2	l	189	LYS
2	l	198	GLU
2	l	199	GLU
2	l	201	GLU
2	l	203	ILE
2	m	7	THR
2	m	10	VAL
2	m	27	SER
2	m	34	ASP

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Mol	Chain	Res	Type
2	m	35	LYS
2	m	43	ILE
2	m	45	ASP
2	m	50	THR
2	m	55	VAL
2	m	61	ILE
2	m	71	LEU
2	m	72	TYR
2	m	80	ILE
2	m	83	LEU
2	m	85	CYS
2	m	87	THR
2	m	93	LEU
2	m	96	SER
2	m	97	ARG
2	m	102	LEU
2	m	104	GLN
2	m	105	ILE
2	m	107	ILE
2	m	113	LEU
2	m	121	LEU
2	m	122	ASP
2	m	124	LEU
2	m	128	ASN
2	m	132	THR
2	m	134	THR
2	m	154	ASP
2	m	161	ILE
2	m	182	ILE
2	m	183	SER
2	m	184	LEU
2	m	187	ILE
2	m	189	LYS
2	m	194	ILE
2	m	199	GLU
2	m	202	LYS
2	m	205	ASP
2	n	10	VAL
2	n	23	ASP
2	n	27	SER
2	n	34	ASP
2	n	35	LYS

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Mol	Chain	Res	Type
2	n	43	ILE
2	n	45	ASP
2	n	50	THR
2	n	55	VAL
2	n	61	ILE
2	n	72	TYR
2	n	80	ILE
2	n	83	LEU
2	n	85	CYS
2	n	87	THR
2	n	93	LEU
2	n	102	LEU
2	n	104	GLN
2	n	105	ILE
2	n	107	ILE
2	n	113	LEU
2	n	121	LEU
2	n	124	LEU
2	n	136	THR
2	n	154	ASP
2	n	155	MET
2	n	161	ILE
2	n	182	ILE
2	n	184	LEU
2	n	187	ILE
2	n	189	LYS
2	n	194	ILE
2	n	199	GLU
2	n	202	LYS
2	n	203	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:

Mol	Chain	Res	Type
1	C	202	ASN
1	C	209	ASN
1	F	209	ASN
2	a	91	ASN
2	e	79	ASN
2	f	79	ASN
2	g	79	ASN
2	g	128	ASN

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Mol	Chain	Res	Type
1	I	126	GLN
1	I	209	ASN
1	L	98	GLN
1	N	98	GLN
2	k	79	ASN

5.3.3 RNA [i](#)

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](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	232/264 (87%)	-0.06	1 (0%) 88 76	127, 157, 221, 336	0
1	B	232/264 (87%)	0.03	1 (0%) 88 76	118, 151, 270, 519	0
1	C	232/264 (87%)	-0.12	0 100 100	114, 132, 205, 333	0
1	D	232/264 (87%)	-0.14	0 100 100	59, 134, 205, 245	0
1	E	232/264 (87%)	-0.01	1 (0%) 88 76	82, 139, 252, 355	0
1	F	232/264 (87%)	-0.04	1 (0%) 88 76	92, 116, 204, 346	0
1	G	232/264 (87%)	-0.14	1 (0%) 88 76	106, 128, 215, 284	0
1	H	232/264 (87%)	-0.07	0 100 100	131, 148, 187, 271	0
1	I	232/264 (87%)	-0.10	1 (0%) 88 76	90, 136, 212, 299	0
1	J	232/264 (87%)	0.03	1 (0%) 88 76	81, 141, 259, 366	0
1	K	232/264 (87%)	-0.06	0 100 100	112, 139, 220, 291	0
1	L	232/264 (87%)	-0.05	1 (0%) 88 76	113, 135, 208, 253	0
1	M	232/264 (87%)	-0.07	1 (0%) 88 76	126, 143, 253, 507	0
1	N	232/264 (87%)	-0.03	1 (0%) 88 76	130, 147, 186, 303	0
2	a	202/219 (92%)	-0.14	1 (0%) 87 74	118, 138, 170, 185	0
2	b	202/219 (92%)	-0.13	0 100 100	113, 131, 161, 180	0
2	c	202/219 (92%)	-0.18	1 (0%) 87 74	101, 119, 195, 251	0
2	d	202/219 (92%)	-0.19	0 100 100	107, 124, 162, 194	0
2	e	202/219 (92%)	-0.17	0 100 100	93, 111, 159, 203	0
2	f	202/219 (92%)	-0.16	0 100 100	100, 115, 150, 175	0
2	g	202/219 (92%)	-0.13	0 100 100	110, 125, 149, 171	0
2	h	202/219 (92%)	-0.17	0 100 100	123, 139, 174, 186	0
2	i	202/219 (92%)	-0.10	0 100 100	110, 123, 155, 170	0
2	j	202/219 (92%)	-0.26	0 100 100	72, 87, 159, 212	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
2	k	202/219 (92%)	-0.12	0 100 100	80, 102, 177, 209	0
2	l	202/219 (92%)	-0.16	1 (0%) 87 74	104, 120, 160, 193	0
2	m	202/219 (92%)	-0.10	2 (0%) 79 62	102, 122, 213, 254	0
2	n	202/219 (92%)	0.04	1 (0%) 87 74	122, 148, 181, 195	0
All	All	6076/6762 (89%)	-0.10	16 (0%) 90 79	59, 134, 207, 519	0

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	L	207	PRO	3.2
1	J	13	ILE	3.1
1	N	79	THR	3.0
1	B	194	ALA	3.0
2	n	64	LEU	2.5
2	m	171	ALA	2.5
1	I	158	LEU	2.4
1	E	13	ILE	2.4
1	A	194	ALA	2.3
1	G	21	ARG	2.3
1	F	13	ILE	2.2
2	a	14	CYS	2.2
2	c	64	LEU	2.2
2	l	64	LEU	2.1
1	M	158	LEU	2.1
2	m	64	LEU	2.0

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

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

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.