



# Full wwPDB X-ray Structure Validation Report ⓘ

Jan 31, 2016 – 11:30 PM GMT

PDB ID : 1XFW  
Title : Crystal structure of anthrax edema factor (EF) in complex with calmodulin and 3'5' cyclic AMP (cAMP)  
Authors : Shen, Y.; Zhukovskaya, N.L.; Guo, Q.; Florian, J.; Tang, W.J.  
Deposited on : 2004-09-15  
Resolution : 3.40 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](mailto:validation@mail.wwpdb.org)  
A user guide is available at  
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>  
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467  
Mogul : 1.7 (RC4), CSD as536be (2015)  
Xtriage (Phenix) : 1.9-1692  
EDS : rb-20026688  
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)  
Refmac : 5.8.0135  
CCP4 : 6.5.0  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : trunk26865

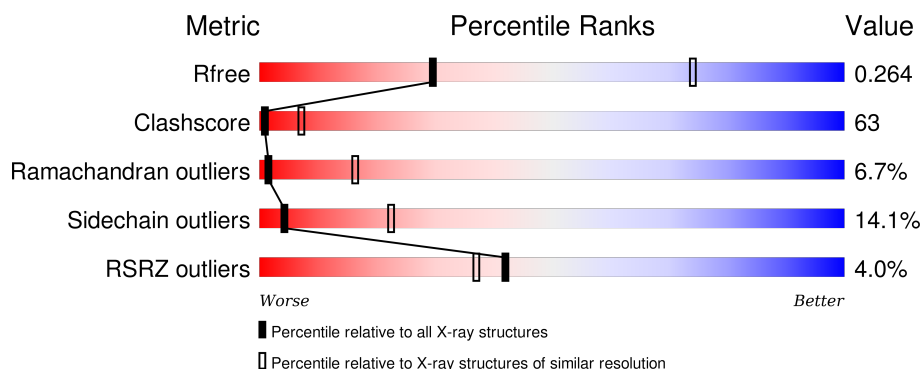
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 3.40 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))
$R_{free}$	91344	1476 (3.50-3.30)
Clashscore	102246	1611 (3.50-3.30)
Ramachandran outliers	100387	1571 (3.50-3.30)
Sidechain outliers	100360	1571 (3.50-3.30)
RSRZ outliers	91569	1485 (3.50-3.30)

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

Mol	Chain	Length	Quality of chain
1	A	777	<div> <div>5%</div> <div> <div>27%</div> <div>55%</div> <div>12%</div> <div>• 5%</div> </div> </div>
1	B	777	<div> <div>4%</div> <div> <div>27%</div> <div>54%</div> <div>12%</div> <div>• 5%</div> </div> </div>
1	C	777	<div> <div>4%</div> <div> <div>27%</div> <div>54%</div> <div>12%</div> <div>• 5%</div> </div> </div>
1	D	777	<div> <div>4%</div> <div> <div>28%</div> <div>54%</div> <div>12%</div> <div>• 5%</div> </div> </div>
1	E	777	<div> <div>4%</div> <div> <div>27%</div> <div>54%</div> <div>12%</div> <div>• 5%</div> </div> </div>

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Mol	Chain	Length	Quality of chain
1	F	777	
2	O	149	
2	P	149	
2	Q	149	
2	R	149	
2	S	149	
2	T	149	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
5	CMP	B	902	-	-	-	X
5	CMP	C	903	-	-	-	X
5	CMP	E	905	-	-	-	X

## 2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 42990 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 Calmodulin-sensitive adenylate cyclase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	B	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	C	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	D	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	E	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	F	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			

There are 54 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	24	MET	-	INITIATING METHIONINE	UNP P40136
A	25	HIS	-	EXPRESSION TAG	UNP P40136
A	26	HIS	-	EXPRESSION TAG	UNP P40136
A	27	HIS	-	EXPRESSION TAG	UNP P40136
A	28	HIS	-	EXPRESSION TAG	UNP P40136
A	29	HIS	-	EXPRESSION TAG	UNP P40136
A	30	HIS	-	EXPRESSION TAG	UNP P40136
A	31	ALA	-	CLONING ARTIFACT	UNP P40136
A	32	ALA	-	CLONING ARTIFACT	UNP P40136
B	24	MET	-	INITIATING METHIONINE	UNP P40136
B	25	HIS	-	EXPRESSION TAG	UNP P40136
B	26	HIS	-	EXPRESSION TAG	UNP P40136
B	27	HIS	-	EXPRESSION TAG	UNP P40136
B	28	HIS	-	EXPRESSION TAG	UNP P40136
B	29	HIS	-	EXPRESSION TAG	UNP P40136
B	30	HIS	-	EXPRESSION TAG	UNP P40136
B	31	ALA	-	CLONING ARTIFACT	UNP P40136

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Chain	Residue	Modelled	Actual	Comment	Reference
B	32	ALA	-	CLONING ARTIFACT	UNP P40136
C	24	MET	-	INITIATING METHIONINE	UNP P40136
C	25	HIS	-	EXPRESSION TAG	UNP P40136
C	26	HIS	-	EXPRESSION TAG	UNP P40136
C	27	HIS	-	EXPRESSION TAG	UNP P40136
C	28	HIS	-	EXPRESSION TAG	UNP P40136
C	29	HIS	-	EXPRESSION TAG	UNP P40136
C	30	HIS	-	EXPRESSION TAG	UNP P40136
C	31	ALA	-	CLONING ARTIFACT	UNP P40136
C	32	ALA	-	CLONING ARTIFACT	UNP P40136
D	24	MET	-	INITIATING METHIONINE	UNP P40136
D	25	HIS	-	EXPRESSION TAG	UNP P40136
D	26	HIS	-	EXPRESSION TAG	UNP P40136
D	27	HIS	-	EXPRESSION TAG	UNP P40136
D	28	HIS	-	EXPRESSION TAG	UNP P40136
D	29	HIS	-	EXPRESSION TAG	UNP P40136
D	30	HIS	-	EXPRESSION TAG	UNP P40136
D	31	ALA	-	CLONING ARTIFACT	UNP P40136
D	32	ALA	-	CLONING ARTIFACT	UNP P40136
E	24	MET	-	INITIATING METHIONINE	UNP P40136
E	25	HIS	-	EXPRESSION TAG	UNP P40136
E	26	HIS	-	EXPRESSION TAG	UNP P40136
E	27	HIS	-	EXPRESSION TAG	UNP P40136
E	28	HIS	-	EXPRESSION TAG	UNP P40136
E	29	HIS	-	EXPRESSION TAG	UNP P40136
E	30	HIS	-	EXPRESSION TAG	UNP P40136
E	31	ALA	-	CLONING ARTIFACT	UNP P40136
E	32	ALA	-	CLONING ARTIFACT	UNP P40136
F	24	MET	-	INITIATING METHIONINE	UNP P40136
F	25	HIS	-	EXPRESSION TAG	UNP P40136
F	26	HIS	-	EXPRESSION TAG	UNP P40136
F	27	HIS	-	EXPRESSION TAG	UNP P40136
F	28	HIS	-	EXPRESSION TAG	UNP P40136
F	29	HIS	-	EXPRESSION TAG	UNP P40136
F	30	HIS	-	EXPRESSION TAG	UNP P40136
F	31	ALA	-	CLONING ARTIFACT	UNP P40136
F	32	ALA	-	CLONING ARTIFACT	UNP P40136

- Molecule 2 is a protein called Calmodulin 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	O	146	Total	C	N	O	S	0	0	0
			1146	702	186	249	9			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	P	146	Total	C	N	O	S	0	0	0
			1146	702	186	249	9			
2	Q	146	Total	C	N	O	S	0	0	0
			1146	702	186	249	9			
2	R	146	Total	C	N	O	S	0	0	0
			1146	702	186	249	9			
2	S	146	Total	C	N	O	S	0	0	0
			1146	702	186	249	9			
2	T	146	Total	C	N	O	S	0	0	0
			1146	702	186	249	9			

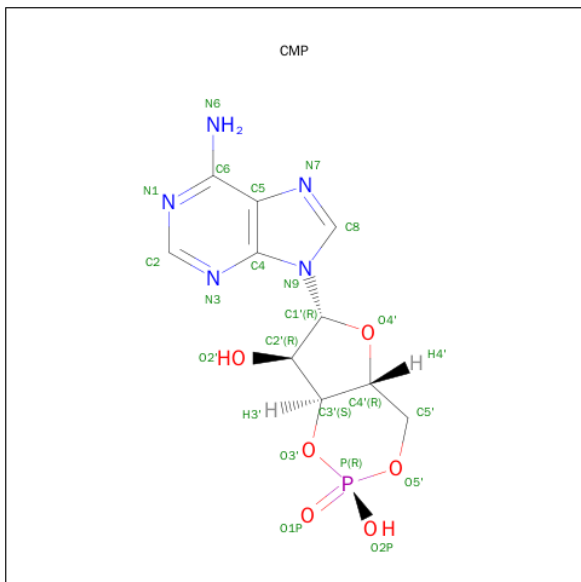
- Molecule 3 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	D	1	Total	Mg	0	0
			1	1		
3	E	1	Total	Mg	0	0
			1	1		
3	B	1	Total	Mg	0	0
			1	1		
3	C	1	Total	Mg	0	0
			1	1		
3	A	1	Total	Mg	0	0
			1	1		
3	F	1	Total	Mg	0	0
			1	1		

- Molecule 4 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	P	3	Total	Ca	0	0
			3	3		
4	Q	3	Total	Ca	0	0
			3	3		
4	T	3	Total	Ca	0	0
			3	3		
4	O	3	Total	Ca	0	0
			3	3		
4	R	3	Total	Ca	0	0
			3	3		
4	S	3	Total	Ca	0	0
			3	3		

- Molecule 5 is ADENOSINE-3',5'-CYCLIC-MONOPHOSPHATE (three-letter code: CMP) (formula:  $C_{10}H_{12}N_5O_6P$ ).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
5	A	1	Total	C	N	O	P	0	0
			22	10	5	6	1		
5	B	1	Total	C	N	O	P	0	0
			22	10	5	6	1		
5	C	1	Total	C	N	O	P	0	0
			22	10	5	6	1		
5	D	1	Total	C	N	O	P	0	0
			22	10	5	6	1		
5	E	1	Total	C	N	O	P	0	0
			22	10	5	6	1		
5	F	1	Total	C	N	O	P	0	0
			22	10	5	6	1		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	1	Total	O	0	0
			1	1		
6	B	1	Total	O	0	0
			1	1		
6	C	1	Total	O	0	0
			1	1		
6	D	1	Total	O	0	0
			1	1		

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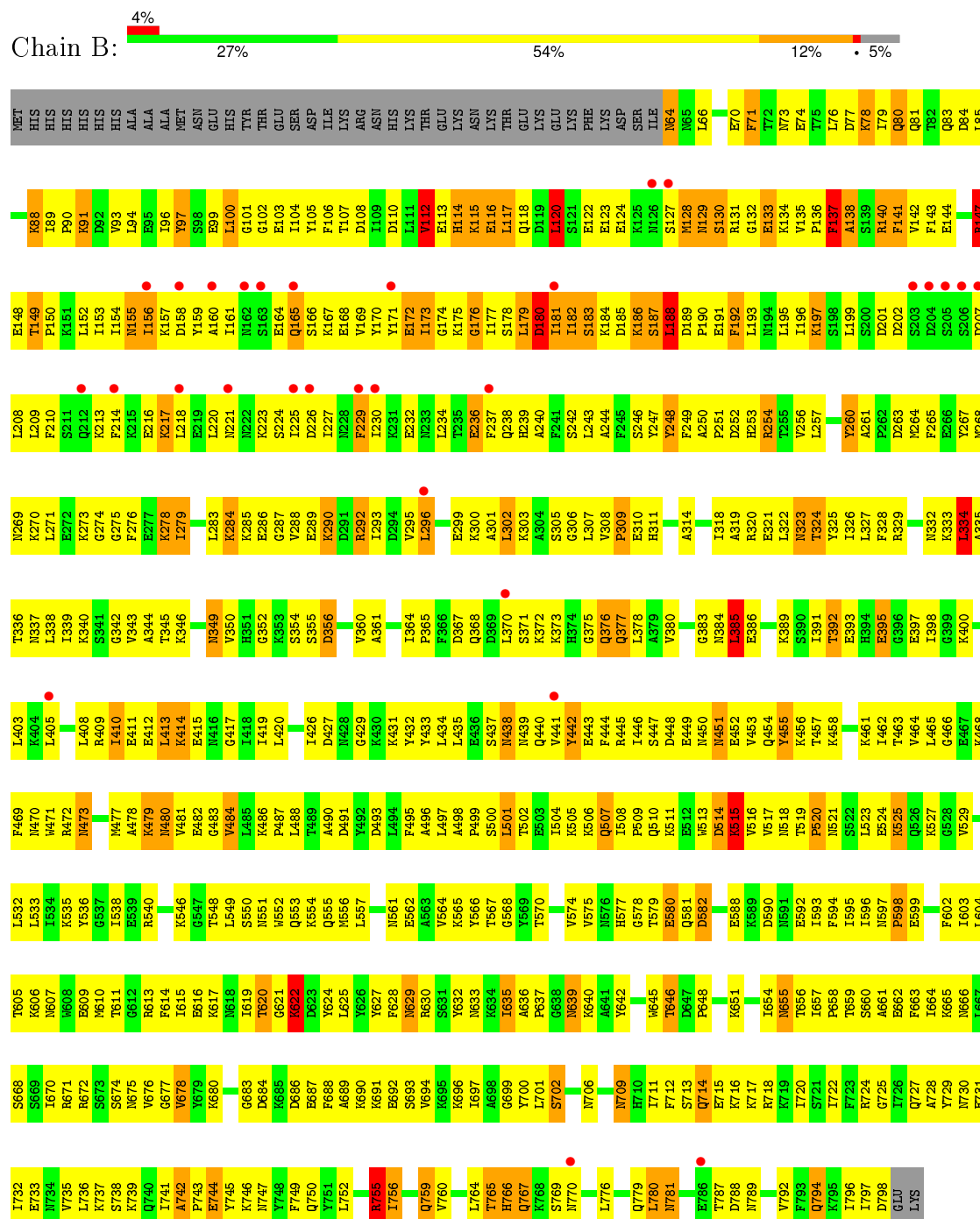
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	E	1	Total	O	0	0
			1	1		
6	F	1	Total	O	0	0
			1	1		



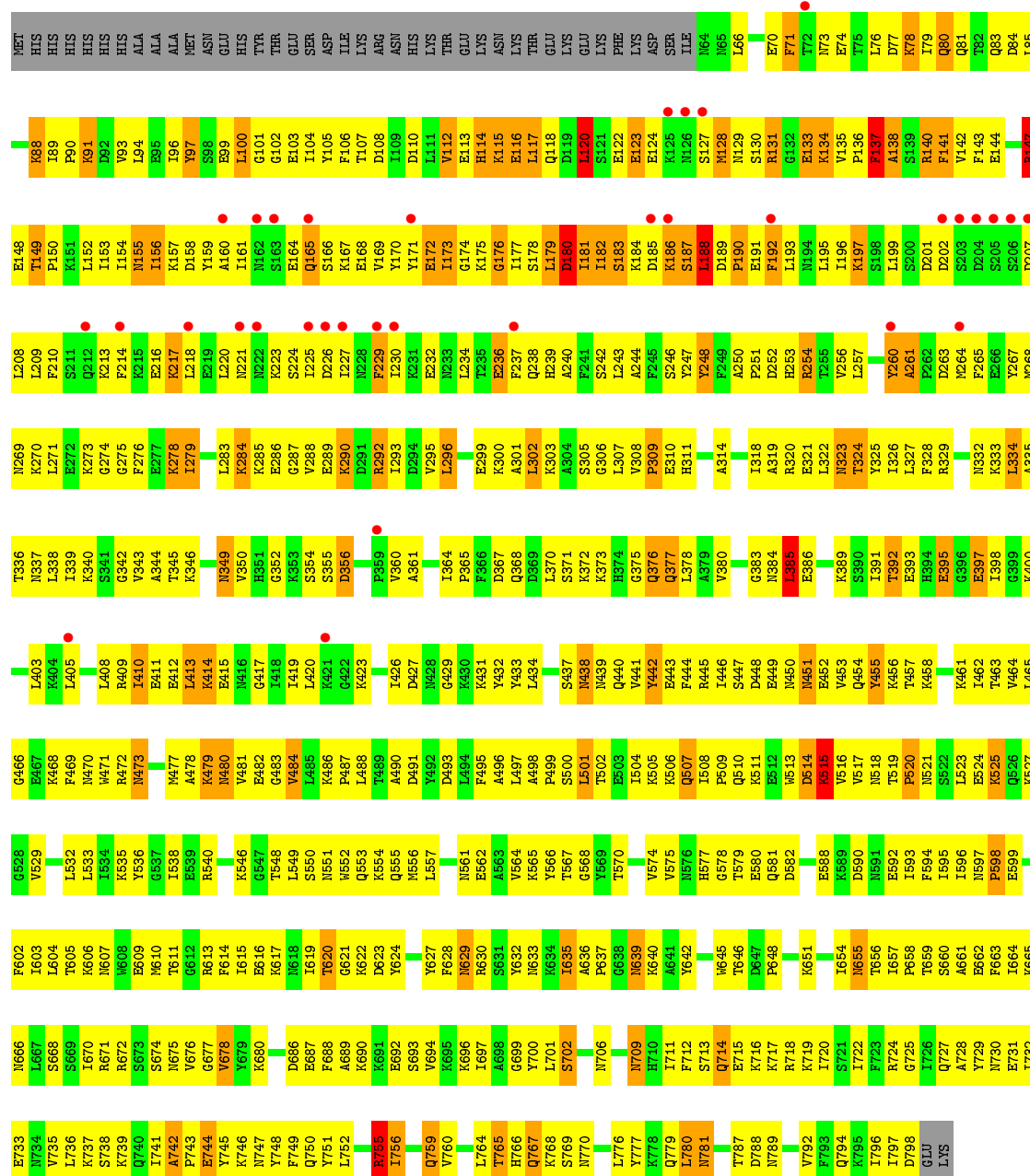


- Molecule 1: Calmodulin-sensitive adenylate cyclase



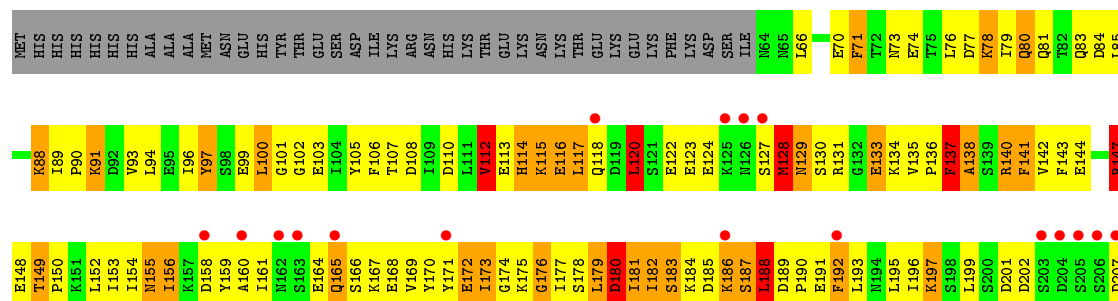
- Molecule 1: Calmodulin-sensitive adenylate cyclase



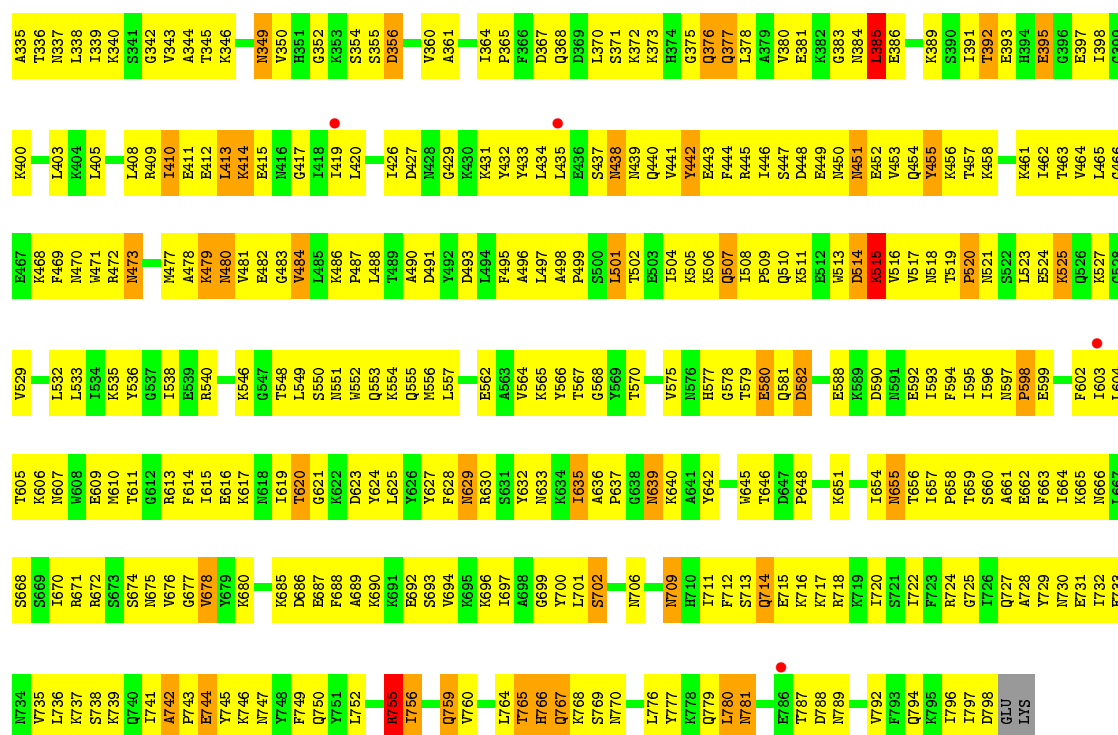


### • Molecule 1: Calmodulin-sensitive adenylylate cyclase

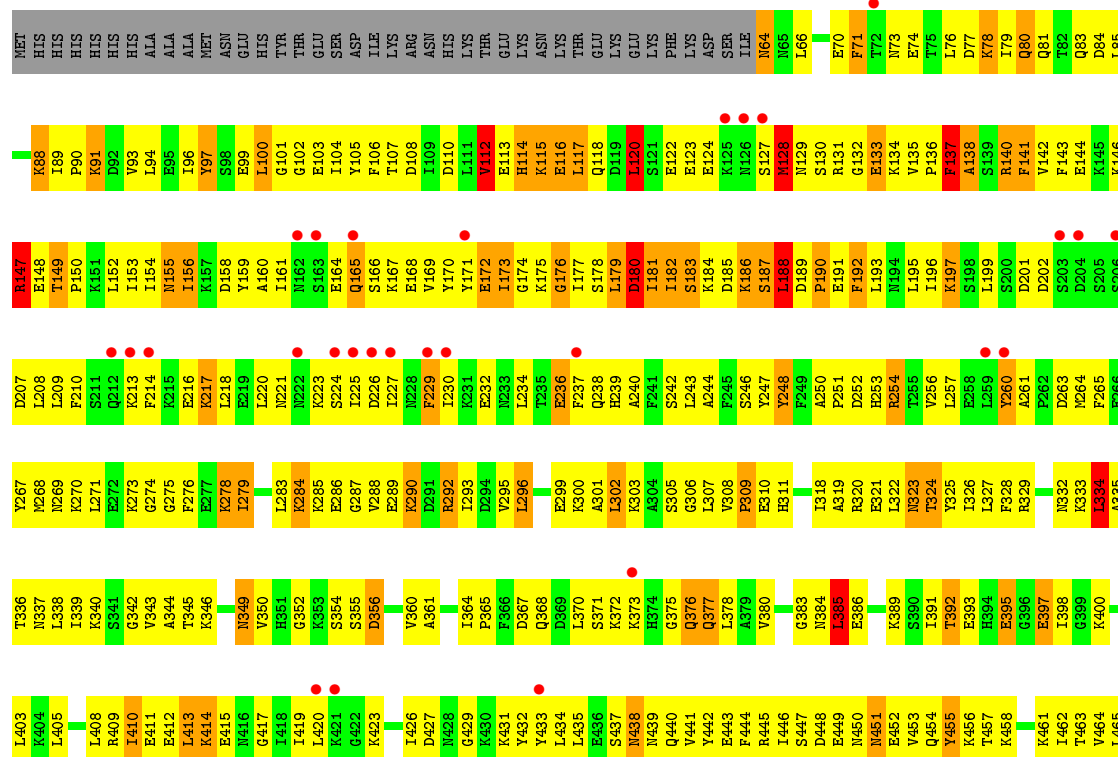
Chain D: 4% 28% 54% 12% 5%

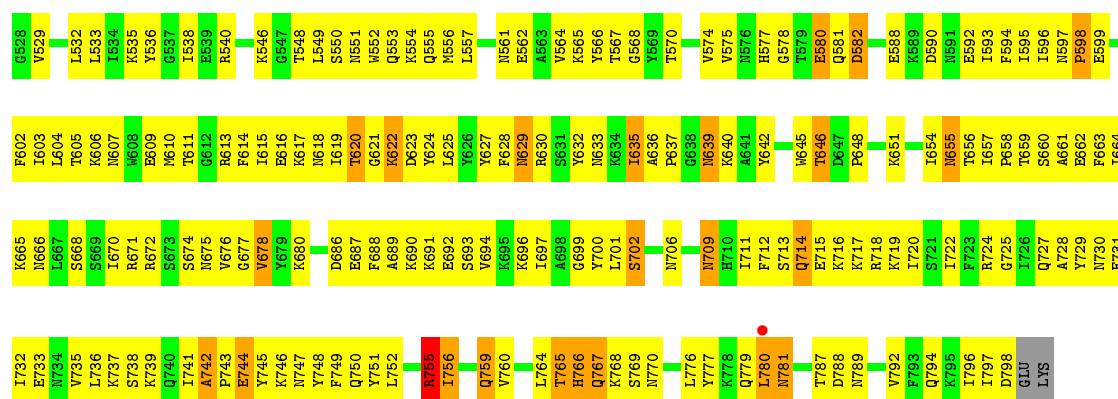




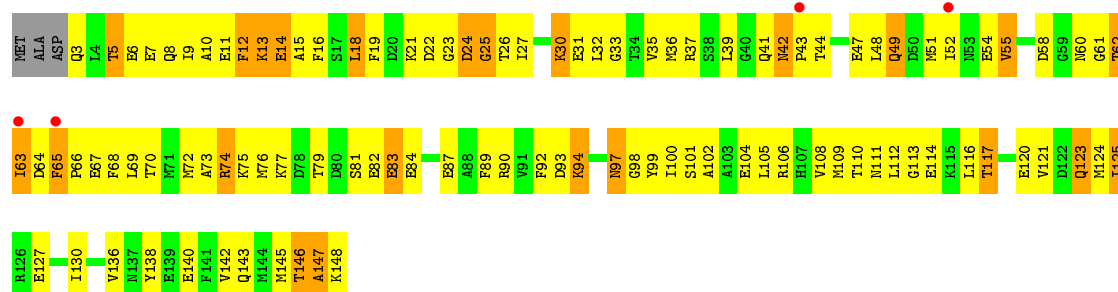


• Molecule 1: Calmodulin-sensitive adenylate cyclase

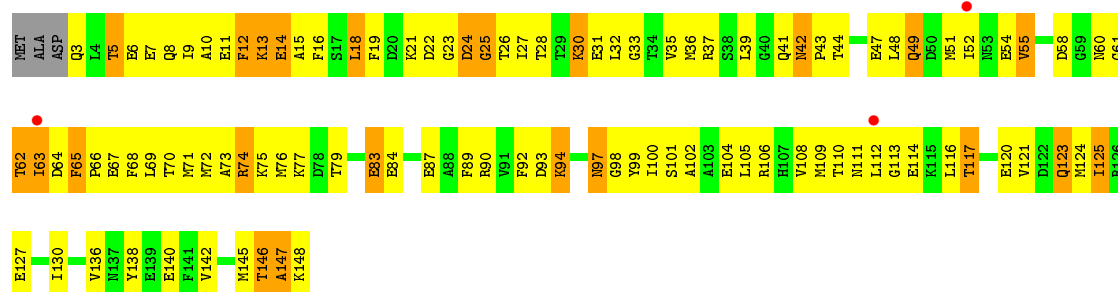




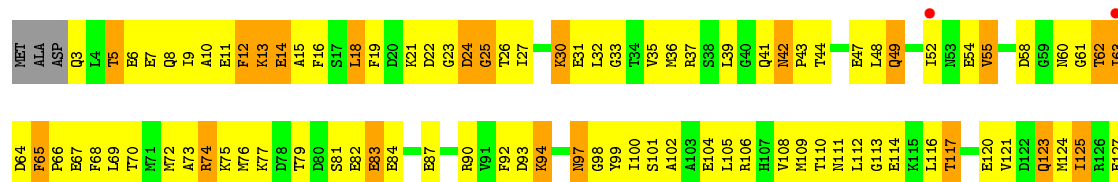
### • Molecule 2: Calmodulin 2



### • Molecule 2: Calmodulin 2

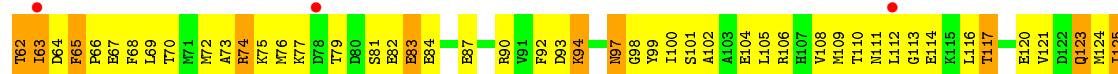


### • Molecule 2: Calmodulin 2

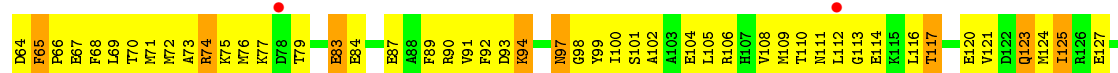




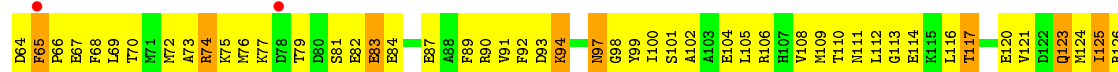
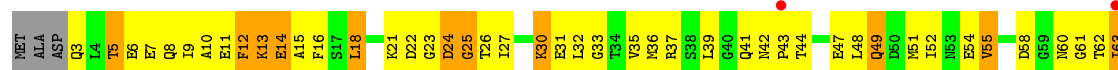
• Molecule 2: Calmodulin 2



• Molecule 2: Calmodulin 2



• Molecule 2: Calmodulin 2



## 4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	320.50Å 185.04Å 142.45Å 90.00° 90.22° 90.00°	Depositor
Resolution (Å)	29.68 – 3.40 30.56 – 3.28	Depositor EDS
% Data completeness (in resolution range)	93.6 (29.68-3.40) 87.9 (30.56-3.28)	Depositor EDS
$R_{merge}$	0.09	Depositor
$R_{sym}$	0.07	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.21 (at 3.31Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, $R_{free}$	0.266 , 0.283 0.248 , 0.264	Depositor DCC
$R_{free}$ test set	5372 reflections (5.04%)	DCC
Wilson B-factor (Å <sup>2</sup> )	92.4	Xtriage
Anisotropy	0.143	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.30 , 51.8	EDS
Estimated twinning fraction	0.448 for -1/2*h-3/2*k,-1/2*h+1/2*k,-l 0.449 for -1/2*h+3/2*k,1/2*h+1/2*k,-l 0.438 for 1/2*h-3/2*k,-1/2*h-1/2*k,-l 0.440 for 1/2*h+3/2*k,1/2*h-1/2*k,-l 0.440 for -h,-k,l	Xtriage
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	1 of 120342 reflections (0.001%)	Xtriage
$F_o, F_c$ correlation	0.90	EDS
Total number of atoms	42990	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	74.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.21% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

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



## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: CA, MG, CMP

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	0.54	0/6104	0.80	8/8208 (0.1%)
1	B	0.54	0/6104	0.82	10/8208 (0.1%)
1	C	0.57	3/6104 (0.0%)	0.81	7/8208 (0.1%)
1	D	0.55	0/6104	0.82	9/8208 (0.1%)
1	E	0.54	0/6104	0.81	9/8208 (0.1%)
1	F	0.55	0/6104	0.81	8/8208 (0.1%)
2	O	0.61	1/1158 (0.1%)	0.78	0/1553
2	P	0.61	1/1158 (0.1%)	0.78	0/1553
2	Q	0.61	1/1158 (0.1%)	0.79	0/1553
2	R	0.60	1/1158 (0.1%)	0.78	0/1553
2	S	0.61	1/1158 (0.1%)	0.79	0/1553
2	T	0.61	1/1158 (0.1%)	0.78	0/1553
All	All	0.56	9/43572 (0.0%)	0.81	51/58566 (0.1%)

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	123	GLU	C-N	-6.32	1.19	1.34
1	C	261	ALA	C-N	5.87	1.45	1.34
2	S	42	ASN	N-CA	-5.57	1.35	1.46
2	T	42	ASN	N-CA	-5.55	1.35	1.46
2	P	42	ASN	N-CA	-5.54	1.35	1.46
2	O	42	ASN	N-CA	-5.50	1.35	1.46
2	Q	42	ASN	N-CA	-5.49	1.35	1.46
2	R	42	ASN	N-CA	-5.49	1.35	1.46
1	C	134	LYS	C-N	5.45	1.46	1.34

All (51) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	188	LEU	N-CA-C	-7.80	89.94	111.00
1	D	188	LEU	N-CA-C	-7.80	89.95	111.00
1	A	188	LEU	N-CA-C	-7.79	89.96	111.00
1	C	188	LEU	N-CA-C	-7.79	89.97	111.00
1	E	188	LEU	N-CA-C	-7.79	89.98	111.00
1	B	188	LEU	N-CA-C	-7.78	90.00	111.00
1	D	622	LYS	C-N-CA	-7.58	102.75	121.70
1	C	147	ARG	N-CA-C	7.54	131.37	111.00
1	A	147	ARG	N-CA-C	7.54	131.36	111.00
1	E	147	ARG	N-CA-C	7.54	131.35	111.00
1	F	147	ARG	N-CA-C	7.54	131.34	111.00
1	D	147	ARG	N-CA-C	7.53	131.34	111.00
1	B	147	ARG	N-CA-C	7.53	131.34	111.00
1	F	160	ALA	N-CA-C	7.31	130.75	111.00
1	A	160	ALA	N-CA-C	7.31	130.73	111.00
1	D	160	ALA	N-CA-C	7.31	130.73	111.00
1	E	160	ALA	N-CA-C	7.31	130.73	111.00
1	B	160	ALA	N-CA-C	7.30	130.72	111.00
1	C	160	ALA	N-CA-C	7.30	130.72	111.00
1	C	159	TYR	CA-C-N	7.25	133.14	117.20
1	D	159	TYR	CA-C-N	7.25	133.14	117.20
1	A	159	TYR	CA-C-N	7.24	133.13	117.20
1	F	159	TYR	CA-C-N	7.24	133.12	117.20
1	B	159	TYR	CA-C-N	7.23	133.10	117.20
1	E	159	TYR	CA-C-N	7.23	133.10	117.20
1	B	622	LYS	C-N-CA	-6.66	105.05	121.70
1	E	128	MET	N-CA-C	-6.45	93.59	111.00
1	F	159	TYR	C-N-CA	-6.20	106.21	121.70
1	B	159	TYR	C-N-CA	-6.19	106.22	121.70
1	E	159	TYR	C-N-CA	-6.19	106.22	121.70
1	A	159	TYR	C-N-CA	-6.19	106.23	121.70
1	C	159	TYR	C-N-CA	-6.18	106.24	121.70
1	D	159	TYR	C-N-CA	-6.17	106.27	121.70
1	D	622	LYS	N-CA-C	-6.12	94.46	111.00
1	B	622	LYS	N-CA-C	-5.82	95.29	111.00
1	A	128	MET	N-CA-C	-5.71	95.59	111.00
1	C	128	MET	N-CA-C	-5.61	95.84	111.00
1	D	128	MET	N-CA-C	-5.48	96.21	111.00
1	B	622	LYS	CA-C-N	5.34	128.94	117.20
1	B	128	MET	N-CA-C	-5.25	96.82	111.00
1	F	120	LEU	N-CA-C	5.16	124.94	111.00
1	C	120	LEU	N-CA-C	5.16	124.92	111.00
1	A	120	LEU	N-CA-C	5.16	124.92	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed( $^{\circ}$ )	Ideal( $^{\circ}$ )
1	D	120	LEU	N-CA-C	5.15	124.91	111.00
1	E	120	LEU	N-CA-C	5.14	124.89	111.00
1	B	120	LEU	N-CA-C	5.14	124.88	111.00
1	E	180	ASP	CA-C-N	-5.10	105.98	117.20
1	F	128	MET	N-CA-C	-5.10	97.24	111.00
1	F	146	LYS	N-CA-C	5.02	124.56	111.00
1	A	146	LYS	N-CA-C	5.01	124.52	111.00
1	E	146	LYS	N-CA-C	5.01	124.52	111.00

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	5992	0	6010	790	0
1	B	5992	0	6010	797	0
1	C	5992	0	6009	781	0
1	D	5992	0	6010	781	0
1	E	5992	0	6010	784	0
1	F	5992	0	6010	782	0
2	O	1146	0	1071	138	0
2	P	1146	0	1071	144	0
2	Q	1146	0	1071	142	0
2	R	1146	0	1071	141	0
2	S	1146	0	1071	140	0
2	T	1146	0	1071	146	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
3	E	1	0	0	0	0
3	F	1	0	0	0	0
4	O	3	0	0	0	0
4	P	3	0	0	0	0
4	Q	3	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	R	3	0	0	0	0
4	S	3	0	0	0	0
4	T	3	0	0	0	0
5	A	22	0	11	4	0
5	B	22	0	11	4	0
5	C	22	0	11	4	0
5	D	22	0	11	4	0
5	E	22	0	11	4	0
5	F	22	0	11	4	0
6	A	1	0	0	0	0
6	B	1	0	0	0	0
6	C	1	0	0	0	0
6	D	1	0	0	0	0
6	E	1	0	0	0	0
6	F	1	0	0	0	0
All	All	42990	0	42551	5408	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 63.

All (5408) 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)
5:A:901:CMP:C2	5:A:901:CMP:H2	0.97	1.49
5:D:904:CMP:C2	5:D:904:CMP:H2	0.97	1.49
5:B:902:CMP:H2	5:B:902:CMP:C2	0.97	1.48
5:C:903:CMP:H2	5:C:903:CMP:C2	0.97	1.48
5:F:906:CMP:H2	5:F:906:CMP:C2	0.97	1.47
5:E:905:CMP:H2	5:E:905:CMP:C2	0.97	1.47
1:A:179:LEU:O	1:A:183:SER:CB	1.67	1.42
1:B:179:LEU:O	1:B:183:SER:CB	1.66	1.40
1:D:179:LEU:O	1:D:183:SER:CB	1.71	1.39
1:E:179:LEU:O	1:E:183:SER:CB	1.69	1.39
1:C:179:LEU:O	1:C:183:SER:CB	1.73	1.35
1:B:179:LEU:O	1:B:183:SER:HB2	1.14	1.30
1:A:179:LEU:O	1:A:183:SER:HB2	1.12	1.30
1:D:179:LEU:O	1:D:183:SER:HB2	1.12	1.29
1:C:179:LEU:O	1:C:183:SER:HB2	1.14	1.28
1:E:179:LEU:O	1:E:183:SER:HB2	1.18	1.28
1:D:186:LYS:HA	1:D:190:PRO:HD3	1.20	1.17
1:A:186:LYS:HA	1:A:190:PRO:HD3	1.21	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:186:LYS:HA	1:B:190:PRO:HD3	1.20	1.13
1:C:296:LEU:N	1:C:296:LEU:HD23	1.64	1.12
1:E:186:LYS:CA	1:E:190:PRO:HD3	1.80	1.12
1:D:296:LEU:N	1:D:296:LEU:HD23	1.64	1.12
1:E:186:LYS:HA	1:E:190:PRO:HD3	1.11	1.10
1:F:296:LEU:H	1:F:296:LEU:CD2	1.59	1.10
1:E:296:LEU:CD2	1:E:296:LEU:H	1.60	1.10
1:C:296:LEU:CD2	1:C:296:LEU:H	1.59	1.10
1:E:296:LEU:N	1:E:296:LEU:HD23	1.64	1.09
1:B:296:LEU:CD2	1:B:296:LEU:H	1.60	1.09
1:D:296:LEU:CD2	1:D:296:LEU:H	1.60	1.09
1:A:296:LEU:CD2	1:A:296:LEU:H	1.60	1.09
1:A:296:LEU:HD23	1:A:296:LEU:N	1.64	1.09
1:C:186:LYS:HA	1:C:190:PRO:HD3	1.29	1.08
1:B:134:LYS:HG2	1:B:136:PRO:HD3	1.35	1.08
1:B:186:LYS:CA	1:B:190:PRO:HD3	1.83	1.07
1:B:296:LEU:HD23	1:B:296:LEU:N	1.64	1.06
1:B:179:LEU:O	1:B:183:SER:CA	2.04	1.05
1:E:179:LEU:O	1:E:183:SER:CA	2.05	1.05
1:F:296:LEU:N	1:F:296:LEU:HD23	1.64	1.05
1:E:134:LYS:HG2	1:E:136:PRO:HD3	1.38	1.05
1:D:186:LYS:CA	1:D:190:PRO:HD3	1.87	1.04
1:A:296:LEU:HD22	1:A:606:LYS:HE2	1.35	1.04
1:F:161:ILE:HA	1:F:167:LYS:HD2	1.38	1.04
1:A:186:LYS:CA	1:A:190:PRO:HD3	1.88	1.04
1:F:191:GLU:O	1:F:193:LEU:N	1.92	1.03
1:F:186:LYS:HA	1:F:190:PRO:HD3	1.41	1.03
1:C:161:ILE:HA	1:C:167:LYS:HD2	1.40	1.03
1:D:161:ILE:HA	1:D:167:LYS:HD2	1.40	1.02
1:E:180:ASP:N	1:E:180:ASP:OD1	1.91	1.02
1:F:89:ILE:HD13	1:F:175:LYS:HE2	1.39	1.02
1:A:161:ILE:HA	1:A:167:LYS:HD2	1.41	1.02
1:B:746:LYS:O	1:B:750:GLN:HG2	1.59	1.02
1:B:188:LEU:HD23	1:B:188:LEU:H	1.22	1.02
1:D:188:LEU:H	1:D:188:LEU:HD23	1.22	1.02
1:C:188:LEU:HD23	1:C:188:LEU:H	1.22	1.02
1:C:89:ILE:HD13	1:C:175:LYS:HE2	1.39	1.02
1:B:64:ASN:N	1:B:64:ASN:HD22	1.47	1.02
1:A:89:ILE:HD13	1:A:175:LYS:HE2	1.38	1.01
1:D:296:LEU:HD22	1:D:606:LYS:HE2	1.39	1.01
1:B:296:LEU:HD22	1:B:606:LYS:HE2	1.38	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:134:LYS:HG2	1:A:136:PRO:HD3	1.41	1.01
1:E:89:ILE:HD13	1:E:175:LYS:HE2	1.39	1.01
1:E:161:ILE:HA	1:E:167:LYS:HD2	1.38	1.01
1:B:161:ILE:HA	1:B:167:LYS:HD2	1.40	1.01
1:C:746:LYS:O	1:C:750:GLN:HG2	1.60	1.01
1:A:188:LEU:HD23	1:A:188:LEU:H	1.22	1.01
1:E:668:SER:HA	2:S:14:GLU:HG3	1.43	1.01
1:A:179:LEU:O	1:A:183:SER:CA	2.08	1.00
1:E:179:LEU:O	1:E:183:SER:N	1.92	1.00
1:E:188:LEU:H	1:E:188:LEU:HD23	1.22	1.00
1:B:134:LYS:HG2	1:B:136:PRO:CD	1.92	1.00
1:B:180:ASP:N	1:B:180:ASP:OD1	1.91	1.00
1:C:548:THR:H	5:C:903:CMP:HN61	1.09	0.99
1:B:179:LEU:O	1:B:183:SER:N	1.94	0.99
1:F:188:LEU:H	1:F:188:LEU:HD23	1.22	0.99
1:F:548:THR:H	5:F:906:CMP:HN61	1.08	0.99
1:C:180:ASP:OD1	1:C:180:ASP:N	1.91	0.99
1:E:746:LYS:O	1:E:750:GLN:HG2	1.60	0.99
2:P:37:ARG:HA	2:P:41:GLN:O	1.63	0.99
1:E:296:LEU:HD22	1:E:606:LYS:HE2	1.42	0.99
1:A:746:LYS:O	1:A:750:GLN:HG2	1.62	0.99
1:A:180:ASP:N	1:A:180:ASP:OD1	1.91	0.99
1:D:89:ILE:HD13	1:D:175:LYS:HE2	1.42	0.99
1:B:89:ILE:HD13	1:B:175:LYS:HE2	1.41	0.98
1:D:746:LYS:O	1:D:750:GLN:HG2	1.61	0.98
1:C:296:LEU:HD22	1:C:606:LYS:HE2	1.42	0.98
1:F:296:LEU:HD22	1:F:606:LYS:HE2	1.43	0.98
1:F:668:SER:HA	2:T:14:GLU:HG3	1.46	0.97
2:O:37:ARG:HA	2:O:41:GLN:O	1.65	0.97
1:F:746:LYS:O	1:F:750:GLN:HG2	1.62	0.97
1:D:548:THR:H	5:D:904:CMP:HN61	1.07	0.96
1:D:180:ASP:OD1	1:D:180:ASP:N	1.91	0.96
1:C:173:ILE:HG13	1:C:242:SER:HB3	1.44	0.96
1:C:188:LEU:CD2	1:C:188:LEU:H	1.78	0.96
1:D:173:ILE:HG13	1:D:242:SER:HB3	1.45	0.96
1:D:188:LEU:H	1:D:188:LEU:CD2	1.78	0.96
1:B:173:ILE:HG13	1:B:242:SER:HB3	1.46	0.96
1:F:173:ILE:HG13	1:F:242:SER:HB3	1.45	0.96
1:E:329:ARG:HD2	1:E:590:ASP:OD2	1.66	0.96
1:F:188:LEU:H	1:F:188:LEU:CD2	1.78	0.96
1:C:296:LEU:H	1:C:296:LEU:HD23	0.79	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:37:ARG:HA	2:S:41:GLN:O	1.65	0.95
1:D:296:LEU:HD23	1:D:296:LEU:H	0.79	0.95
1:E:134:LYS:HG2	1:E:136:PRO:CD	1.95	0.95
1:A:188:LEU:CD2	1:A:188:LEU:H	1.78	0.95
1:B:668:SER:HA	2:P:14:GLU:HG3	1.47	0.95
1:B:329:ARG:HD2	1:B:590:ASP:OD2	1.66	0.95
2:R:37:ARG:HA	2:R:41:GLN:O	1.66	0.95
1:F:296:LEU:H	1:F:296:LEU:HD23	0.79	0.95
1:A:548:THR:H	5:A:901:CMP:HN61	1.07	0.95
1:A:173:ILE:HG13	1:A:242:SER:HB3	1.47	0.95
1:F:180:ASP:OD1	1:F:180:ASP:N	1.91	0.95
1:C:329:ARG:HD2	1:C:590:ASP:OD2	1.66	0.95
1:E:548:THR:H	5:E:905:CMP:HN61	1.07	0.95
1:C:179:LEU:O	1:C:183:SER:CA	2.14	0.95
1:D:179:LEU:O	1:D:183:SER:CA	2.13	0.95
1:A:179:LEU:O	1:A:183:SER:N	1.99	0.94
1:B:188:LEU:CD2	1:B:188:LEU:H	1.78	0.94
1:E:188:LEU:H	1:E:188:LEU:CD2	1.78	0.94
1:E:173:ILE:HG13	1:E:242:SER:HB3	1.46	0.94
1:A:296:LEU:HD23	1:A:296:LEU:H	0.79	0.94
1:A:134:LYS:HG2	1:A:136:PRO:CD	1.98	0.94
1:F:697:ILE:HD13	1:F:732:ILE:HD13	1.50	0.94
1:A:329:ARG:HD2	1:A:590:ASP:OD2	1.67	0.94
1:E:697:ILE:HD13	1:E:732:ILE:HD13	1.49	0.94
1:A:697:ILE:HD13	1:A:732:ILE:HD13	1.49	0.94
1:E:296:LEU:HD23	1:E:296:LEU:H	0.79	0.94
1:C:668:SER:HA	2:Q:14:GLU:HG3	1.50	0.94
1:D:668:SER:HA	2:R:14:GLU:HG3	1.50	0.94
1:C:186:LYS:CA	1:C:190:PRO:HD3	1.96	0.93
1:A:668:SER:HA	2:O:14:GLU:HG3	1.49	0.93
2:Q:37:ARG:HA	2:Q:41:GLN:O	1.68	0.93
1:F:134:LYS:HG2	1:F:136:PRO:HD3	1.47	0.93
1:B:697:ILE:HD13	1:B:732:ILE:HD13	1.49	0.93
1:D:697:ILE:HD13	1:D:732:ILE:HD13	1.51	0.93
2:T:37:ARG:HA	2:T:41:GLN:O	1.67	0.93
2:O:65:PHE:HB2	2:O:66:PRO:HD3	1.50	0.93
1:D:308:VAL:HB	1:D:311:HIS:ND1	1.83	0.93
1:F:329:ARG:HD2	1:F:590:ASP:OD2	1.67	0.93
1:C:697:ILE:HD13	1:C:732:ILE:HD13	1.50	0.93
1:E:186:LYS:C	1:E:188:LEU:O	2.07	0.93
1:A:308:VAL:HB	1:A:311:HIS:ND1	1.83	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:329:ARG:HD2	1:D:590:ASP:OD2	1.67	0.92
2:Q:13:LYS:HZ3	2:Q:65:PHE:HB3	1.33	0.92
1:D:134:LYS:HG2	1:D:136:PRO:HD3	1.48	0.92
1:A:186:LYS:C	1:A:188:LEU:O	2.07	0.92
1:C:131:ARG:H	1:C:170:TYR:HE2	1.14	0.92
1:C:179:LEU:O	1:C:183:SER:N	2.03	0.92
1:B:296:LEU:HD23	1:B:296:LEU:H	0.79	0.92
1:F:308:VAL:HB	1:F:311:HIS:ND1	1.84	0.92
2:R:97:ASN:HD22	2:R:97:ASN:H	1.18	0.92
1:B:548:THR:H	5:B:902:CMP:HN61	1.07	0.92
1:C:308:VAL:HB	1:C:311:HIS:ND1	1.85	0.92
1:B:188:LEU:HD23	1:B:188:LEU:N	1.85	0.92
1:F:186:LYS:C	1:F:188:LEU:O	2.07	0.92
2:S:97:ASN:HD22	2:S:97:ASN:H	1.17	0.92
1:E:308:VAL:HB	1:E:311:HIS:ND1	1.83	0.91
1:E:186:LYS:HA	1:E:190:PRO:CD	1.99	0.91
1:B:308:VAL:HB	1:B:311:HIS:ND1	1.84	0.91
2:P:65:PHE:HB2	2:P:66:PRO:HD3	1.52	0.91
2:Q:65:PHE:HB2	2:Q:66:PRO:HD3	1.51	0.91
1:D:635:ILE:HD12	1:D:635:ILE:H	1.35	0.91
1:B:635:ILE:HD12	1:B:635:ILE:H	1.36	0.91
2:T:97:ASN:HD22	2:T:97:ASN:H	1.18	0.91
1:C:635:ILE:H	1:C:635:ILE:HD12	1.35	0.91
2:O:97:ASN:H	2:O:97:ASN:HD22	1.19	0.91
2:P:97:ASN:H	2:P:97:ASN:HD22	1.19	0.91
1:C:405:LEU:HD13	1:C:453:VAL:HG21	1.52	0.91
1:F:405:LEU:HD13	1:F:453:VAL:HG21	1.53	0.91
2:S:65:PHE:HB2	2:S:66:PRO:HD3	1.50	0.91
1:A:131:ARG:H	1:A:170:TYR:HE2	1.16	0.91
1:C:186:LYS:C	1:C:188:LEU:O	2.09	0.91
1:D:405:LEU:HD13	1:D:453:VAL:HG21	1.53	0.91
2:T:65:PHE:HB2	2:T:66:PRO:HD3	1.50	0.90
1:B:131:ARG:H	1:B:170:TYR:HE2	1.17	0.90
1:D:186:LYS:C	1:D:188:LEU:O	2.10	0.90
2:R:65:PHE:HB2	2:R:66:PRO:HD3	1.53	0.90
1:A:635:ILE:HD12	1:A:635:ILE:H	1.34	0.90
1:C:175:LYS:HZ2	1:C:175:LYS:HB2	1.35	0.90
2:T:97:ASN:ND2	2:T:97:ASN:H	1.70	0.90
1:E:405:LEU:HD13	1:E:453:VAL:HG21	1.53	0.90
1:B:186:LYS:C	1:B:188:LEU:O	2.09	0.90
2:P:97:ASN:ND2	2:P:97:ASN:H	1.70	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:5:THR:HG23	2:S:8:GLN:HB2	1.54	0.90
2:Q:30:LYS:H	2:Q:30:LYS:HD3	1.37	0.90
2:S:30:LYS:HD3	2:S:30:LYS:H	1.37	0.90
1:F:131:ARG:H	1:F:170:TYR:HE2	1.16	0.89
1:A:188:LEU:HD23	1:A:188:LEU:N	1.85	0.89
1:C:188:LEU:HD23	1:C:188:LEU:N	1.85	0.89
1:F:188:LEU:N	1:F:188:LEU:HD23	1.85	0.89
1:F:635:ILE:H	1:F:635:ILE:HD12	1.37	0.89
1:A:405:LEU:HD13	1:A:453:VAL:HG21	1.54	0.89
2:P:5:THR:HG23	2:P:8:GLN:HB2	1.54	0.89
1:D:179:LEU:O	1:D:183:SER:N	2.04	0.89
1:E:175:LYS:HB2	1:E:175:LYS:HZ2	1.36	0.89
2:R:13:LYS:HZ3	2:R:65:PHE:HB3	1.35	0.89
2:R:5:THR:HG23	2:R:8:GLN:HB2	1.55	0.89
1:A:275:GLY:HA2	1:A:278:LYS:HG3	1.55	0.89
2:R:30:LYS:H	2:R:30:LYS:HD3	1.37	0.89
2:Q:97:ASN:H	2:Q:97:ASN:ND2	1.71	0.89
2:T:30:LYS:H	2:T:30:LYS:HD3	1.36	0.89
1:D:131:ARG:H	1:D:170:TYR:HE2	1.13	0.89
2:R:100:ILE:HB	2:R:136:VAL:HG23	1.55	0.89
2:O:5:THR:HG23	2:O:8:GLN:HB2	1.55	0.88
1:D:275:GLY:HA2	1:D:278:LYS:HG3	1.55	0.88
2:P:100:ILE:HB	2:P:136:VAL:HG23	1.55	0.88
2:Q:5:THR:HG23	2:Q:8:GLN:HB2	1.55	0.88
1:B:405:LEU:HD13	1:B:453:VAL:HG21	1.54	0.88
1:D:175:LYS:HB2	1:D:175:LYS:NZ	1.88	0.88
2:O:30:LYS:HD3	2:O:30:LYS:H	1.37	0.88
1:C:759:GLN:HA	1:C:759:GLN:HE21	1.38	0.88
2:T:5:THR:HG23	2:T:8:GLN:HB2	1.55	0.88
2:P:30:LYS:HD3	2:P:30:LYS:H	1.37	0.88
1:F:479:LYS:HG2	1:F:488:LEU:HD21	1.56	0.88
1:D:89:ILE:HG22	1:D:93:VAL:HG11	1.55	0.88
2:Q:97:ASN:HD22	2:Q:97:ASN:H	1.20	0.88
1:B:630:ARG:CZ	2:P:83:GLU:HG2	2.04	0.88
2:O:100:ILE:HB	2:O:136:VAL:HG23	1.56	0.88
1:A:175:LYS:HB2	1:A:175:LYS:NZ	1.89	0.88
1:A:89:ILE:HG22	1:A:93:VAL:HG11	1.55	0.88
1:F:175:LYS:HB2	1:F:175:LYS:NZ	1.89	0.88
1:E:635:ILE:HD12	1:E:635:ILE:H	1.36	0.88
1:B:89:ILE:HG22	1:B:93:VAL:HG11	1.56	0.88
1:F:89:ILE:HG22	1:F:93:VAL:HG11	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:275:GLY:HA2	1:C:278:LYS:HG3	1.54	0.88
1:E:188:LEU:N	1:E:188:LEU:HD23	1.85	0.87
2:S:97:ASN:ND2	2:S:97:ASN:H	1.69	0.87
2:Q:100:ILE:HB	2:Q:136:VAL:HG23	1.55	0.87
1:C:678:VAL:HG22	1:C:745:TYR:CE2	2.09	0.87
2:R:13:LYS:NZ	2:R:65:PHE:HB3	1.88	0.87
1:B:275:GLY:HA2	1:B:278:LYS:HG3	1.56	0.87
1:B:759:GLN:HE21	1:B:759:GLN:HA	1.39	0.87
1:E:759:GLN:HA	1:E:759:GLN:HE21	1.40	0.87
1:E:187:SER:C	1:E:188:LEU:O	2.04	0.87
1:C:175:LYS:NZ	1:C:175:LYS:HB2	1.90	0.87
1:D:188:LEU:N	1:D:188:LEU:HD23	1.85	0.87
1:E:479:LYS:HG2	1:E:488:LEU:HD21	1.57	0.87
1:F:759:GLN:HE21	1:F:759:GLN:HA	1.40	0.87
1:B:187:SER:C	1:B:188:LEU:O	2.05	0.87
1:E:89:ILE:HG22	1:E:93:VAL:HG11	1.57	0.87
1:C:142:VAL:HG22	1:C:154:ILE:HD12	1.56	0.87
1:C:187:SER:C	1:C:188:LEU:O	2.05	0.87
2:O:97:ASN:H	2:O:97:ASN:ND2	1.70	0.87
1:E:131:ARG:H	1:E:170:TYR:HE2	1.18	0.87
1:F:134:LYS:HG2	1:F:136:PRO:CD	2.04	0.87
2:S:13:LYS:NZ	2:S:65:PHE:HB3	1.90	0.87
1:D:722:ILE:HG23	1:D:760:VAL:HG13	1.57	0.87
2:T:100:ILE:HB	2:T:136:VAL:HG23	1.55	0.86
2:T:13:LYS:NZ	2:T:65:PHE:HB3	1.91	0.86
1:D:464:VAL:HG23	1:D:465:LEU:HD12	1.57	0.86
1:E:275:GLY:HA2	1:E:278:LYS:HG3	1.56	0.86
1:C:479:LYS:HG2	1:C:488:LEU:HD21	1.54	0.86
1:E:175:LYS:NZ	1:E:175:LYS:HB2	1.88	0.86
1:C:89:ILE:HG22	1:C:93:VAL:HG11	1.58	0.86
1:F:678:VAL:HG22	1:F:745:TYR:CE2	2.10	0.86
1:C:769:SER:OG	1:C:769:SER:O	1.90	0.86
1:B:175:LYS:HB2	1:B:175:LYS:NZ	1.89	0.86
1:B:186:LYS:HA	1:B:190:PRO:CD	2.04	0.86
1:A:678:VAL:HG22	1:A:745:TYR:CE2	2.09	0.86
2:Q:13:LYS:NZ	2:Q:65:PHE:HB3	1.90	0.86
1:C:134:LYS:HG2	1:C:136:PRO:HD3	1.54	0.86
1:D:678:VAL:HG22	1:D:745:TYR:CE2	2.10	0.86
1:D:759:GLN:HA	1:D:759:GLN:HE21	1.40	0.86
1:A:479:LYS:HG2	1:A:488:LEU:HD21	1.56	0.86
1:B:479:LYS:HG2	1:B:488:LEU:HD21	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:100:ILE:HB	2:S:136:VAL:HG23	1.56	0.85
1:C:722:ILE:HG23	1:C:760:VAL:HG13	1.58	0.85
1:D:134:LYS:HG2	1:D:136:PRO:CD	2.05	0.85
1:B:142:VAL:HG22	1:B:154:ILE:HD12	1.58	0.85
1:B:179:LEU:C	1:B:183:SER:HB2	1.96	0.85
1:D:142:VAL:HG22	1:D:154:ILE:HD12	1.57	0.85
1:E:678:VAL:HG22	1:E:745:TYR:CE2	2.10	0.85
1:B:678:VAL:HG22	1:B:745:TYR:CE2	2.11	0.85
1:F:722:ILE:HG23	1:F:760:VAL:HG13	1.58	0.85
1:C:464:VAL:HG23	1:C:465:LEU:HD12	1.57	0.85
1:F:464:VAL:HG23	1:F:465:LEU:HD12	1.57	0.85
1:A:464:VAL:HG23	1:A:465:LEU:HD12	1.58	0.85
1:A:187:SER:C	1:A:188:LEU:O	2.04	0.85
1:E:630:ARG:CZ	2:S:83:GLU:HG2	2.06	0.85
1:D:479:LYS:HG2	1:D:488:LEU:HD21	1.56	0.85
1:E:464:VAL:HG23	1:E:465:LEU:HD12	1.57	0.85
1:C:628:PHE:HE2	2:Q:90:ARG:HD3	1.41	0.85
2:P:13:LYS:NZ	2:P:65:PHE:HB3	1.91	0.85
1:D:131:ARG:HG3	1:D:243:LEU:CD2	2.07	0.85
1:E:131:ARG:HG3	1:E:243:LEU:CD2	2.06	0.85
1:B:64:ASN:ND2	1:B:64:ASN:N	2.19	0.85
1:A:769:SER:OG	1:A:769:SER:O	1.89	0.85
1:A:759:GLN:HA	1:A:759:GLN:HE21	1.42	0.85
1:D:187:SER:C	1:D:188:LEU:O	2.05	0.84
1:B:74:GLU:HB2	1:B:78:LYS:HB3	1.59	0.84
1:F:630:ARG:CZ	2:T:83:GLU:HG2	2.07	0.84
1:A:142:VAL:HG22	1:A:154:ILE:HD12	1.57	0.84
1:A:179:LEU:C	1:A:183:SER:HB2	1.97	0.84
1:F:275:GLY:HA2	1:F:278:LYS:HG3	1.57	0.84
1:A:186:LYS:HA	1:A:190:PRO:CD	2.07	0.84
2:S:6:GLU:HG3	2:S:7:GLU:N	1.93	0.84
2:O:6:GLU:HG3	2:O:7:GLU:N	1.92	0.84
1:B:722:ILE:HG23	1:B:760:VAL:HG13	1.59	0.84
2:R:97:ASN:ND2	2:R:97:ASN:H	1.69	0.84
1:E:722:ILE:HG23	1:E:760:VAL:HG13	1.60	0.84
2:P:6:GLU:HG3	2:P:7:GLU:N	1.93	0.84
1:F:187:SER:C	1:F:188:LEU:O	2.04	0.84
1:A:722:ILE:HG23	1:A:760:VAL:HG13	1.59	0.84
2:O:13:LYS:NZ	2:O:65:PHE:HB3	1.91	0.84
1:B:464:VAL:HG23	1:B:465:LEU:HD12	1.57	0.84
2:R:6:GLU:HG3	2:R:7:GLU:N	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:630:ARG:CZ	2:O:83:GLU:HG2	2.08	0.83
1:B:186:LYS:CB	1:B:190:PRO:HD3	2.08	0.83
1:F:142:VAL:HG22	1:F:154:ILE:HD12	1.57	0.83
1:F:186:LYS:CA	1:F:190:PRO:HD3	2.07	0.83
1:E:74:GLU:HB2	1:E:78:LYS:HB3	1.59	0.83
1:E:142:VAL:HG22	1:E:154:ILE:HD12	1.58	0.83
2:T:6:GLU:HG3	2:T:7:GLU:N	1.93	0.83
1:A:90:PRO:O	1:A:93:VAL:HG12	1.78	0.83
1:E:90:PRO:O	1:E:93:VAL:HG12	1.79	0.83
1:E:628:PHE:HE2	2:S:90:ARG:HD3	1.43	0.83
1:B:288:VAL:HG23	1:B:289:GLU:H	1.44	0.82
1:D:186:LYS:HA	1:D:190:PRO:CD	2.05	0.82
1:F:90:PRO:O	1:F:93:VAL:HG12	1.78	0.82
1:F:628:PHE:HE2	2:T:90:ARG:HD3	1.44	0.82
1:A:550:SER:HB3	1:A:553:GLN:HG3	1.59	0.82
1:B:107:THR:HG21	1:B:115:LYS:HD2	1.61	0.82
1:D:90:PRO:O	1:D:93:VAL:HG12	1.78	0.82
1:D:628:PHE:HE2	2:R:90:ARG:HD3	1.43	0.82
1:D:497:LEU:HD13	1:D:556:MET:HG2	1.62	0.82
2:R:97:ASN:HD22	2:R:97:ASN:N	1.76	0.82
1:E:781:ASN:H	1:E:789:ASN:HD21	1.27	0.82
1:D:630:ARG:CZ	2:R:83:GLU:HG2	2.10	0.81
1:F:769:SER:O	1:F:769:SER:OG	1.89	0.81
1:E:107:THR:HG21	1:E:115:LYS:HD2	1.60	0.81
1:F:140:ARG:HA	1:F:140:ARG:HE	1.44	0.81
1:A:74:GLU:HB2	1:A:78:LYS:HB3	1.62	0.81
1:C:90:PRO:O	1:C:93:VAL:HG12	1.79	0.81
2:Q:6:GLU:HG3	2:Q:7:GLU:N	1.92	0.81
1:F:64:ASN:N	1:F:64:ASN:HD22	1.76	0.81
1:C:630:ARG:CZ	2:Q:83:GLU:HG2	2.09	0.81
1:E:179:LEU:C	1:E:183:SER:HB2	2.00	0.81
1:F:107:THR:HG21	1:F:115:LYS:HD2	1.62	0.81
1:B:718:ARG:O	1:B:722:ILE:HG13	1.80	0.81
1:E:288:VAL:HG23	1:E:289:GLU:H	1.45	0.81
1:A:628:PHE:HE2	2:O:90:ARG:HD3	1.43	0.81
1:E:769:SER:OG	1:E:769:SER:O	1.90	0.81
1:D:179:LEU:C	1:D:183:SER:HB2	2.01	0.81
1:E:131:ARG:HG3	1:E:243:LEU:HD22	1.62	0.81
1:D:288:VAL:HG23	1:D:289:GLU:H	1.46	0.81
1:A:165:GLN:CD	1:A:252:ASP:HB3	2.02	0.81
1:C:718:ARG:O	1:C:722:ILE:HG13	1.81	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:324:THR:HB	1:C:499:PRO:HA	1.63	0.81
1:B:550:SER:HB3	1:B:553:GLN:HG3	1.62	0.81
1:B:140:ARG:HA	1:B:140:ARG:HE	1.45	0.80
1:D:175:LYS:HB2	1:D:175:LYS:HZ2	1.41	0.80
1:F:165:GLN:CD	1:F:252:ASP:HB3	2.01	0.80
1:D:403:LEU:HD21	1:D:405:LEU:HD11	1.63	0.80
1:F:324:THR:HB	1:F:499:PRO:HA	1.64	0.80
1:F:781:ASN:H	1:F:789:ASN:HD21	1.28	0.80
1:C:288:VAL:HG23	1:C:289:GLU:H	1.47	0.80
1:A:140:ARG:HE	1:A:140:ARG:HA	1.46	0.80
1:B:628:PHE:HE2	2:P:90:ARG:HD3	1.44	0.80
2:O:106:ARG:O	2:O:110:THR:HG23	1.81	0.80
1:C:457:THR:HG21	1:C:468:LYS:HA	1.64	0.80
1:D:131:ARG:HG3	1:D:243:LEU:HD22	1.64	0.80
1:F:718:ARG:O	1:F:722:ILE:HG13	1.81	0.80
1:D:324:THR:HB	1:D:499:PRO:HA	1.64	0.80
1:F:288:VAL:HG23	1:F:289:GLU:H	1.47	0.80
1:A:288:VAL:HG23	1:A:289:GLU:H	1.46	0.80
1:C:140:ARG:HA	1:C:140:ARG:HE	1.46	0.80
1:C:550:SER:HB3	1:C:553:GLN:HG3	1.63	0.80
1:B:781:ASN:H	1:B:789:ASN:HD21	1.28	0.80
1:B:90:PRO:O	1:B:93:VAL:HG12	1.80	0.79
1:E:140:ARG:HA	1:E:140:ARG:NE	1.98	0.79
2:P:100:ILE:HB	2:P:136:VAL:CG2	2.12	0.79
1:B:403:LEU:HD21	1:B:405:LEU:HD11	1.64	0.79
1:A:497:LEU:HD13	1:A:556:MET:HG2	1.64	0.79
1:B:318:ILE:HG23	1:B:322:LEU:HD12	1.64	0.79
2:Q:106:ARG:O	2:Q:110:THR:HG23	1.81	0.79
1:D:550:SER:HB3	1:D:553:GLN:HG3	1.63	0.79
1:E:140:ARG:HA	1:E:140:ARG:HE	1.45	0.79
2:T:106:ARG:O	2:T:110:THR:HG23	1.82	0.79
1:A:718:ARG:O	1:A:722:ILE:HG13	1.82	0.79
1:F:140:ARG:HA	1:F:140:ARG:NE	1.98	0.79
1:C:403:LEU:HD21	1:C:405:LEU:HD11	1.64	0.79
1:F:550:SER:HB3	1:F:553:GLN:HG3	1.62	0.79
1:F:457:THR:HG21	1:F:468:LYS:HA	1.64	0.79
1:C:179:LEU:C	1:C:183:SER:HB2	2.03	0.79
1:E:165:GLN:CD	1:E:252:ASP:HB3	2.03	0.79
1:B:165:GLN:CD	1:B:252:ASP:HB3	2.03	0.79
1:F:497:LEU:HD13	1:F:556:MET:HG2	1.64	0.79
1:A:318:ILE:HG23	1:A:322:LEU:HD12	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:106:ARG:O	2:R:110:THR:HG23	1.82	0.79
1:A:107:THR:HG21	1:A:115:LYS:HD2	1.64	0.79
1:A:296:LEU:CD2	1:A:606:LYS:HE2	2.13	0.79
1:E:550:SER:HB3	1:E:553:GLN:HG3	1.63	0.79
1:D:781:ASN:H	1:D:789:ASN:HD21	1.28	0.79
1:E:318:ILE:HG23	1:E:322:LEU:HD12	1.64	0.79
1:B:324:THR:HB	1:B:499:PRO:HA	1.64	0.79
1:F:501:LEU:HB2	1:F:623:ASP:O	1.82	0.79
1:E:457:THR:HG21	1:E:468:LYS:HA	1.64	0.79
1:D:140:ARG:HE	1:D:140:ARG:HA	1.46	0.79
1:D:718:ARG:O	1:D:722:ILE:HG13	1.82	0.79
1:A:324:THR:HB	1:A:499:PRO:HA	1.65	0.79
1:D:769:SER:OG	1:D:769:SER:O	1.89	0.79
1:C:694:VAL:HG23	2:Q:18:LEU:HD11	1.64	0.79
1:D:457:THR:HG21	1:D:468:LYS:HA	1.64	0.79
1:B:186:LYS:HB2	1:B:190:PRO:HD3	1.65	0.79
1:F:403:LEU:HD21	1:F:405:LEU:HD11	1.64	0.79
1:C:134:LYS:HG2	1:C:136:PRO:CD	2.12	0.79
1:E:324:THR:HB	1:E:499:PRO:HA	1.65	0.79
1:A:781:ASN:H	1:A:789:ASN:HD21	1.28	0.79
1:A:540:ARG:NH2	2:O:87:GLU:OE1	2.16	0.79
2:P:106:ARG:O	2:P:110:THR:HG23	1.83	0.79
2:S:100:ILE:HB	2:S:136:VAL:CG2	2.13	0.79
1:A:457:THR:HG21	1:A:468:LYS:HA	1.63	0.79
1:F:191:GLU:O	1:F:192:PHE:C	2.20	0.79
1:D:165:GLN:CD	1:D:252:ASP:HB3	2.02	0.78
2:S:97:ASN:N	2:S:97:ASN:HD22	1.75	0.78
1:C:165:GLN:CD	1:C:252:ASP:HB3	2.03	0.78
1:A:550:SER:HB3	1:A:553:GLN:CG	2.12	0.78
1:D:318:ILE:HG23	1:D:322:LEU:HD12	1.65	0.78
1:B:497:LEU:HD13	1:B:556:MET:HG2	1.65	0.78
1:D:71:PHE:HB3	1:D:108:ASP:HB2	1.65	0.78
2:Q:100:ILE:HB	2:Q:136:VAL:CG2	2.13	0.78
1:E:694:VAL:HG23	2:S:18:LEU:HD11	1.65	0.78
1:C:781:ASN:H	1:C:789:ASN:HD21	1.28	0.78
2:R:6:GLU:HG3	2:R:7:GLU:H	1.48	0.78
1:F:318:ILE:HG23	1:F:322:LEU:HD12	1.64	0.78
1:B:154:ILE:HG13	1:B:171:TYR:CE1	2.19	0.78
1:C:71:PHE:HB3	1:C:108:ASP:HB2	1.65	0.78
1:D:153:ILE:O	1:D:154:ILE:HD13	1.84	0.78
1:A:403:LEU:HD21	1:A:405:LEU:HD11	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:106:ARG:O	2:S:110:THR:HG23	1.83	0.78
2:O:100:ILE:HB	2:O:136:VAL:CG2	2.13	0.78
1:F:550:SER:HB3	1:F:553:GLN:CG	2.14	0.78
2:T:49:GLN:H	2:T:49:GLN:HE21	1.32	0.78
1:C:497:LEU:HD13	1:C:556:MET:HG2	1.66	0.78
2:R:100:ILE:HB	2:R:136:VAL:CG2	2.13	0.78
1:F:74:GLU:HB2	1:F:78:LYS:HB3	1.64	0.78
1:F:540:ARG:NH2	2:T:87:GLU:OE1	2.16	0.77
2:S:6:GLU:HG3	2:S:7:GLU:H	1.49	0.77
1:D:140:ARG:NE	1:D:140:ARG:HA	1.98	0.77
1:E:286:GLU:O	1:E:290:LYS:HB2	1.85	0.77
1:B:540:ARG:NH2	2:P:87:GLU:OE1	2.18	0.77
1:A:71:PHE:HB3	1:A:108:ASP:HB2	1.65	0.77
1:C:318:ILE:HG23	1:C:322:LEU:HD12	1.66	0.77
1:B:140:ARG:HA	1:B:140:ARG:NE	1.98	0.77
1:B:286:GLU:O	1:B:290:LYS:HB2	1.84	0.77
2:Q:49:GLN:HE21	2:Q:49:GLN:H	1.32	0.77
1:B:457:THR:HG21	1:B:468:LYS:HA	1.64	0.77
2:Q:6:GLU:HG3	2:Q:7:GLU:H	1.49	0.77
2:T:100:ILE:HB	2:T:136:VAL:CG2	2.13	0.77
2:T:6:GLU:HG3	2:T:7:GLU:H	1.50	0.77
1:B:71:PHE:HB3	1:B:108:ASP:HB2	1.65	0.77
1:E:71:PHE:HB3	1:E:108:ASP:HB2	1.65	0.77
1:A:286:GLU:O	1:A:290:LYS:HB2	1.84	0.77
1:C:550:SER:HB3	1:C:553:GLN:CG	2.15	0.77
1:D:694:VAL:HG23	2:R:18:LEU:HD11	1.66	0.77
1:F:153:ILE:O	1:F:154:ILE:HD13	1.85	0.77
1:F:154:ILE:HG13	1:F:171:TYR:CE1	2.20	0.77
1:D:715:GLU:HA	1:D:718:ARG:NH1	1.99	0.77
1:C:140:ARG:HA	1:C:140:ARG:NE	1.99	0.77
1:E:718:ARG:O	1:E:722:ILE:HG13	1.84	0.77
1:B:776:LEU:HD23	1:B:776:LEU:O	1.85	0.77
1:A:154:ILE:HG13	1:A:171:TYR:CE1	2.19	0.77
1:B:153:ILE:O	1:B:154:ILE:HD13	1.85	0.77
2:R:64:ASP:OD1	2:R:66:PRO:HD2	1.84	0.77
1:A:140:ARG:NE	1:A:140:ARG:HA	1.98	0.77
2:P:64:ASP:OD1	2:P:66:PRO:HD2	1.85	0.77
2:S:13:LYS:HZ3	2:S:65:PHE:HB3	1.49	0.77
1:F:71:PHE:HB3	1:F:108:ASP:HB2	1.65	0.77
1:C:191:GLU:O	1:C:193:LEU:N	2.17	0.77
1:C:678:VAL:HG22	1:C:745:TYR:HE2	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:497:LEU:HD13	1:E:556:MET:HG2	1.66	0.77
1:E:153:ILE:O	1:E:154:ILE:HD13	1.85	0.76
1:B:715:GLU:HA	1:B:718:ARG:NH1	2.00	0.76
1:A:657:ILE:HG13	1:A:756:ILE:HD13	1.67	0.76
2:Q:64:ASP:OD1	2:Q:66:PRO:HD2	1.85	0.76
1:D:74:GLU:HB2	1:D:78:LYS:HB3	1.66	0.76
1:A:175:LYS:HZ2	1:A:175:LYS:HB2	1.50	0.76
1:E:154:ILE:HG13	1:E:171:TYR:CE1	2.20	0.76
1:B:134:LYS:CG	1:B:136:PRO:HD3	2.14	0.76
1:F:664:ILE:HG21	2:T:15:ALA:HB2	1.68	0.76
1:E:403:LEU:HD21	1:E:405:LEU:HD11	1.66	0.76
1:B:550:SER:HB3	1:B:553:GLN:CG	2.14	0.76
2:O:6:GLU:HG3	2:O:7:GLU:H	1.49	0.76
1:F:694:VAL:HG23	2:T:18:LEU:HD11	1.66	0.76
1:A:153:ILE:O	1:A:154:ILE:HD13	1.85	0.76
1:C:776:LEU:HD23	1:C:776:LEU:O	1.85	0.76
1:B:657:ILE:HG13	1:B:756:ILE:HD13	1.67	0.76
1:C:664:ILE:HG21	2:Q:15:ALA:HB2	1.68	0.76
2:O:3:GLN:N	2:O:77:LYS:HZ2	1.83	0.76
1:F:657:ILE:HG13	1:F:756:ILE:HD13	1.66	0.76
1:E:540:ARG:NH2	2:S:87:GLU:OE1	2.18	0.76
1:D:210:PHE:HD1	1:D:214:PHE:HB2	1.51	0.76
1:C:657:ILE:HG13	1:C:756:ILE:HD13	1.68	0.76
1:E:715:GLU:HA	1:E:718:ARG:NH1	2.01	0.76
1:B:462:ILE:HD11	1:B:466:GLY:HA2	1.67	0.76
1:E:73:ASN:ND2	1:E:74:GLU:OE2	2.18	0.76
1:C:107:THR:HG21	1:C:115:LYS:HD2	1.68	0.76
1:D:286:GLU:O	1:D:290:LYS:HB2	1.85	0.76
1:F:210:PHE:HD1	1:F:214:PHE:HB2	1.51	0.76
2:P:13:LYS:HZ3	2:P:65:PHE:HB3	1.50	0.76
2:Q:97:ASN:HD22	2:Q:97:ASN:N	1.77	0.76
1:A:73:ASN:ND2	1:A:74:GLU:OE2	2.18	0.76
1:C:286:GLU:O	1:C:290:LYS:HB2	1.85	0.76
2:S:36:MET:HE3	2:S:43:PRO:HG3	1.68	0.76
1:A:776:LEU:O	1:A:776:LEU:HD23	1.86	0.76
1:B:120:LEU:O	1:B:120:LEU:CD1	2.34	0.76
1:A:210:PHE:HD1	1:A:214:PHE:HB2	1.51	0.75
1:B:210:PHE:HD1	1:B:214:PHE:HB2	1.51	0.75
2:O:64:ASP:OD1	2:O:66:PRO:HD2	1.85	0.75
1:F:715:GLU:HA	1:F:718:ARG:NH1	2.00	0.75
1:C:462:ILE:HD11	1:C:466:GLY:HA2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:776:LEU:O	1:D:776:LEU:HD23	1.86	0.75
2:S:49:GLN:H	2:S:49:GLN:HE21	1.32	0.75
1:F:776:LEU:HD23	1:F:776:LEU:O	1.86	0.75
1:D:462:ILE:HD11	1:D:466:GLY:HA2	1.68	0.75
2:S:117:THR:HG23	2:S:120:GLU:HB2	1.68	0.75
1:F:678:VAL:HG22	1:F:745:TYR:HE2	1.50	0.75
1:A:715:GLU:HA	1:A:718:ARG:NH1	2.01	0.75
1:C:715:GLU:HA	1:C:718:ARG:NH1	2.00	0.75
1:F:217:LYS:HB2	1:F:236:GLU:CD	2.07	0.75
1:E:120:LEU:CD1	1:E:120:LEU:O	2.34	0.75
1:F:120:LEU:CD1	1:F:120:LEU:O	2.34	0.75
1:A:478:ALA:HB1	1:A:486:LYS:O	1.86	0.75
2:O:97:ASN:N	2:O:97:ASN:HD22	1.76	0.75
1:D:540:ARG:NH2	2:R:87:GLU:OE1	2.19	0.75
1:A:120:LEU:O	1:A:120:LEU:CD1	2.34	0.75
1:D:120:LEU:O	1:D:120:LEU:CD1	2.34	0.75
1:C:153:ILE:O	1:C:154:ILE:HD13	1.87	0.75
1:A:678:VAL:HG22	1:A:745:TYR:HE2	1.49	0.75
2:S:64:ASP:OD1	2:S:66:PRO:HD2	1.86	0.75
1:E:550:SER:HB3	1:E:553:GLN:CG	2.15	0.75
2:P:3:GLN:N	2:P:77:LYS:HZ2	1.83	0.75
1:E:210:PHE:HD1	1:E:214:PHE:HB2	1.51	0.75
1:D:296:LEU:CD2	1:D:606:LYS:HE2	2.17	0.75
1:F:218:LEU:HD11	1:F:225:ILE:HD11	1.68	0.75
1:B:478:ALA:HB1	1:B:486:LYS:O	1.86	0.75
2:O:117:THR:HG23	2:O:120:GLU:HB2	1.69	0.75
1:E:236:GLU:HA	1:E:239:HIS:CD2	2.22	0.75
2:P:6:GLU:HG3	2:P:7:GLU:H	1.50	0.75
1:F:462:ILE:HD11	1:F:466:GLY:HA2	1.67	0.75
1:E:462:ILE:HD11	1:E:466:GLY:HA2	1.69	0.75
1:C:540:ARG:NH2	2:Q:87:GLU:OE1	2.20	0.75
1:E:188:LEU:N	1:E:188:LEU:CD2	2.46	0.75
2:R:49:GLN:HE21	2:R:49:GLN:H	1.32	0.75
1:B:217:LYS:HB2	1:B:236:GLU:CD	2.08	0.75
1:D:550:SER:HB3	1:D:553:GLN:CG	2.15	0.75
2:Q:117:THR:HG23	2:Q:120:GLU:HB2	1.69	0.75
1:D:186:LYS:CB	1:D:190:PRO:HD3	2.17	0.74
1:C:478:ALA:HB1	1:C:486:LYS:O	1.86	0.74
1:C:120:LEU:O	1:C:120:LEU:CD1	2.34	0.74
2:T:117:THR:HG23	2:T:120:GLU:HB2	1.69	0.74
1:A:236:GLU:HA	1:A:239:HIS:CD2	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:175:LYS:HB2	1:F:175:LYS:HZ2	1.49	0.74
1:A:694:VAL:HG23	2:O:18:LEU:HD11	1.68	0.74
2:O:36:MET:CE	2:O:43:PRO:HG3	2.17	0.74
1:B:175:LYS:HB2	1:B:175:LYS:HZ2	1.51	0.74
1:B:236:GLU:HA	1:B:239:HIS:CD2	2.23	0.74
1:C:210:PHE:HD1	1:C:214:PHE:HB2	1.50	0.74
1:A:165:GLN:NE2	1:A:252:ASP:HB3	2.02	0.74
2:T:64:ASP:OD1	2:T:66:PRO:HD2	1.87	0.74
2:R:3:GLN:N	2:R:77:LYS:HZ2	1.84	0.74
2:P:117:THR:HG23	2:P:120:GLU:HB2	1.69	0.74
2:R:117:THR:HG23	2:R:120:GLU:HB2	1.69	0.74
1:D:154:ILE:HG13	1:D:171:TYR:CE1	2.21	0.74
1:E:217:LYS:HB2	1:E:236:GLU:CD	2.07	0.74
1:D:657:ILE:HG13	1:D:756:ILE:HD13	1.69	0.74
1:F:478:ALA:HB1	1:F:486:LYS:O	1.87	0.74
2:T:36:MET:HE3	2:T:43:PRO:HG3	1.68	0.74
2:O:49:GLN:HE21	2:O:49:GLN:H	1.32	0.74
1:A:186:LYS:CB	1:A:190:PRO:HD3	2.17	0.74
1:A:218:LEU:HD11	1:A:225:ILE:HD11	1.69	0.74
1:E:671:ARG:NH1	1:E:677:GLY:HA3	2.03	0.74
1:E:678:VAL:HG22	1:E:745:TYR:HE2	1.51	0.74
1:C:74:GLU:HB2	1:C:78:LYS:HB3	1.67	0.74
2:S:3:GLN:N	2:S:77:LYS:HZ2	1.83	0.74
1:F:165:GLN:NE2	1:F:252:ASP:HB3	2.02	0.74
1:D:165:GLN:NE2	1:D:252:ASP:HB3	2.02	0.74
1:B:678:VAL:HG22	1:B:745:TYR:HE2	1.51	0.74
1:F:64:ASN:N	1:F:64:ASN:ND2	2.32	0.74
1:F:286:GLU:O	1:F:290:LYS:HB2	1.87	0.74
1:C:123:GLU:HG2	1:C:124:GLU:N	2.02	0.74
1:D:218:LEU:HD11	1:D:225:ILE:HD11	1.68	0.74
1:E:185:ASP:O	1:E:190:PRO:HA	1.87	0.74
1:A:671:ARG:NH1	1:A:677:GLY:HA3	2.02	0.74
1:C:671:ARG:NH1	1:C:677:GLY:HA3	2.03	0.74
1:E:478:ALA:HB1	1:E:486:LYS:O	1.87	0.74
1:E:657:ILE:HG13	1:E:756:ILE:HD13	1.68	0.74
2:P:49:GLN:H	2:P:49:GLN:HE21	1.32	0.74
1:E:186:LYS:CB	1:E:190:PRO:HD3	2.17	0.74
1:C:154:ILE:HG13	1:C:171:TYR:CE1	2.23	0.74
1:E:412:GLU:C	1:E:414:LYS:H	1.91	0.74
2:Q:36:MET:CE	2:Q:43:PRO:HG3	2.18	0.74
1:B:694:VAL:HG23	2:P:18:LEU:HD11	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:148:GLU:HG3	1:C:149:THR:N	2.03	0.74
1:C:217:LYS:HB2	1:C:236:GLU:CD	2.07	0.74
1:E:664:ILE:HG21	2:S:15:ALA:HB2	1.70	0.74
1:E:165:GLN:NE2	1:E:252:ASP:HB3	2.03	0.73
1:B:165:GLN:NE2	1:B:252:ASP:HB3	2.03	0.73
2:R:31:GLU:O	2:R:35:VAL:HG23	1.89	0.73
1:D:678:VAL:HG22	1:D:745:TYR:HE2	1.51	0.73
1:F:236:GLU:HA	1:F:239:HIS:CD2	2.23	0.73
1:B:769:SER:OG	1:B:769:SER:O	1.89	0.73
1:E:189:ASP:O	1:E:191:GLU:N	2.21	0.73
1:C:236:GLU:HA	1:C:239:HIS:CD2	2.23	0.73
1:D:478:ALA:HB1	1:D:486:LYS:O	1.87	0.73
1:D:73:ASN:ND2	1:D:74:GLU:OE2	2.18	0.73
2:T:36:MET:CE	2:T:43:PRO:HG3	2.18	0.73
1:C:131:ARG:HG3	1:C:243:LEU:CD2	2.18	0.73
1:C:218:LEU:HD11	1:C:225:ILE:HD11	1.68	0.73
2:Q:3:GLN:N	2:Q:77:LYS:HZ2	1.84	0.73
1:A:299:GLU:O	1:A:299:GLU:HG2	1.88	0.73
1:B:185:ASP:O	1:B:190:PRO:HA	1.89	0.73
1:B:671:ARG:NH1	1:B:677:GLY:HA3	2.04	0.73
1:A:412:GLU:C	1:A:414:LYS:H	1.91	0.73
1:A:462:ILE:HD11	1:A:466:GLY:HA2	1.69	0.73
1:E:776:LEU:O	1:E:776:LEU:HD23	1.87	0.73
1:E:218:LEU:HD11	1:E:225:ILE:HD11	1.69	0.73
1:D:462:ILE:HG12	1:D:463:THR:N	2.03	0.73
1:F:73:ASN:ND2	1:F:74:GLU:OE2	2.18	0.73
1:D:236:GLU:HA	1:D:239:HIS:CD2	2.23	0.73
1:E:197:LYS:HD3	1:E:263:ASP:HB3	1.70	0.73
1:C:197:LYS:HD3	1:C:263:ASP:HB3	1.70	0.73
1:F:671:ARG:NH1	1:F:677:GLY:HA3	2.04	0.73
2:P:36:MET:HE3	2:P:43:PRO:HG3	1.70	0.73
1:B:189:ASP:O	1:B:191:GLU:N	2.21	0.73
1:A:664:ILE:HG21	2:O:15:ALA:HB2	1.69	0.73
1:C:462:ILE:HG12	1:C:463:THR:H	1.54	0.73
1:D:548:THR:N	5:D:904:CMP:HN61	1.86	0.73
1:A:217:LYS:HB2	1:A:236:GLU:CD	2.08	0.73
1:B:197:LYS:HD3	1:B:263:ASP:HB3	1.71	0.73
1:D:107:THR:HG21	1:D:115:LYS:HD2	1.70	0.73
1:E:299:GLU:O	1:E:299:GLU:HG2	1.89	0.73
1:E:191:GLU:O	1:E:193:LEU:N	2.20	0.73
1:C:178:SER:OG	1:C:179:LEU:HD23	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:186:LYS:HA	1:C:190:PRO:CD	2.15	0.73
1:C:462:ILE:HG12	1:C:463:THR:N	2.03	0.73
1:B:288:VAL:HG23	1:B:289:GLU:N	2.03	0.73
1:E:288:VAL:HG23	1:E:289:GLU:N	2.04	0.73
1:C:446:ILE:HD11	1:C:451:ASN:HB3	1.71	0.72
1:B:412:GLU:C	1:B:414:LYS:H	1.92	0.72
1:F:462:ILE:HG12	1:F:463:THR:N	2.03	0.72
1:D:412:GLU:C	1:D:414:LYS:H	1.91	0.72
1:E:781:ASN:H	1:E:789:ASN:ND2	1.87	0.72
1:C:299:GLU:O	1:C:299:GLU:HG2	1.89	0.72
1:B:218:LEU:HD11	1:B:225:ILE:HD11	1.69	0.72
1:D:197:LYS:HD3	1:D:263:ASP:HB3	1.72	0.72
2:O:13:LYS:HZ1	2:O:65:PHE:HB3	1.53	0.72
1:A:462:ILE:HG12	1:A:463:THR:H	1.54	0.72
1:C:781:ASN:H	1:C:789:ASN:ND2	1.88	0.72
2:P:31:GLU:O	2:P:35:VAL:HG23	1.89	0.72
1:A:781:ASN:H	1:A:789:ASN:ND2	1.88	0.72
1:B:697:ILE:HD13	1:B:732:ILE:CD1	2.20	0.72
1:B:715:GLU:HA	1:B:718:ARG:HH12	1.55	0.72
1:D:462:ILE:HG12	1:D:463:THR:H	1.53	0.72
1:C:105:TYR:HB2	1:C:153:ILE:HG12	1.69	0.72
1:B:134:LYS:HG2	1:B:136:PRO:CG	2.20	0.72
1:F:105:TYR:HB2	1:F:153:ILE:HG12	1.71	0.72
1:B:462:ILE:HG12	1:B:463:THR:N	2.03	0.72
2:T:31:GLU:O	2:T:35:VAL:HG23	1.89	0.72
2:S:36:MET:CE	2:S:43:PRO:HG3	2.20	0.72
1:A:105:TYR:HB2	1:A:153:ILE:HG12	1.71	0.72
1:B:105:TYR:HB2	1:B:153:ILE:HG12	1.71	0.72
1:D:217:LYS:HB2	1:D:236:GLU:CD	2.09	0.72
1:E:105:TYR:HB2	1:E:153:ILE:HG12	1.72	0.72
1:F:131:ARG:HG3	1:F:243:LEU:CD2	2.19	0.72
1:C:776:LEU:O	1:C:780:LEU:HD22	1.90	0.72
1:B:296:LEU:CD2	1:B:606:LYS:HE2	2.16	0.72
1:F:462:ILE:HG12	1:F:463:THR:H	1.54	0.72
1:A:462:ILE:HG12	1:A:463:THR:N	2.04	0.72
1:D:123:GLU:HG2	1:D:124:GLU:N	2.05	0.72
1:A:197:LYS:HD3	1:A:263:ASP:HB3	1.71	0.72
2:O:31:GLU:O	2:O:35:VAL:HG23	1.90	0.72
1:D:664:ILE:HG21	2:R:15:ALA:HB2	1.71	0.72
1:A:123:GLU:HG2	1:A:124:GLU:N	2.05	0.72
1:E:134:LYS:HG2	1:E:136:PRO:CG	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:148:GLU:HG3	1:D:149:THR:N	2.05	0.72
1:E:697:ILE:HD13	1:E:732:ILE:CD1	2.20	0.71
2:S:31:GLU:O	2:S:35:VAL:HG23	1.89	0.71
2:R:36:MET:CE	2:R:43:PRO:HG3	2.20	0.71
1:D:299:GLU:O	1:D:299:GLU:HG2	1.89	0.71
1:E:462:ILE:HG12	1:E:463:THR:H	1.54	0.71
1:F:548:THR:N	5:F:906:CMP:HN61	1.87	0.71
1:A:697:ILE:HD13	1:A:732:ILE:CD1	2.20	0.71
2:T:97:ASN:N	2:T:97:ASN:HD22	1.76	0.71
1:E:462:ILE:HG12	1:E:463:THR:N	2.04	0.71
1:E:715:GLU:HA	1:E:718:ARG:HH12	1.55	0.71
2:T:3:GLN:N	2:T:77:LYS:HZ2	1.86	0.71
1:C:165:GLN:NE2	1:C:252:ASP:HB3	2.04	0.71
1:E:134:LYS:CG	1:E:136:PRO:HD3	2.17	0.71
1:D:671:ARG:NH1	1:D:677:GLY:HA3	2.04	0.71
1:F:781:ASN:H	1:F:789:ASN:ND2	1.88	0.71
1:B:299:GLU:HG2	1:B:299:GLU:O	1.89	0.71
1:A:131:ARG:HG3	1:A:243:LEU:HD22	1.73	0.71
1:B:73:ASN:ND2	1:B:74:GLU:OE2	2.18	0.71
1:F:776:LEU:O	1:F:780:LEU:HD22	1.91	0.71
1:A:131:ARG:HG3	1:A:243:LEU:CD2	2.20	0.71
1:B:70:GLU:HB2	1:B:107:THR:HG22	1.73	0.71
1:C:73:ASN:ND2	1:C:74:GLU:OE2	2.18	0.71
2:P:36:MET:CE	2:P:43:PRO:HG3	2.20	0.71
1:D:288:VAL:HG23	1:D:289:GLU:N	2.05	0.71
1:B:597:ASN:HB2	1:B:598:PRO:HD2	1.73	0.71
1:A:120:LEU:HD13	1:A:120:LEU:C	2.11	0.71
1:A:715:GLU:HA	1:A:718:ARG:HH12	1.56	0.71
1:F:412:GLU:C	1:F:414:LYS:H	1.92	0.71
1:D:776:LEU:O	1:D:780:LEU:HD22	1.91	0.71
2:T:13:LYS:HZ3	2:T:65:PHE:HB3	1.52	0.71
2:P:12:PHE:CE1	2:P:72:MET:HG3	2.26	0.71
1:B:462:ILE:HG12	1:B:463:THR:H	1.53	0.71
1:B:120:LEU:C	1:B:120:LEU:HD13	2.11	0.71
1:F:197:LYS:HD3	1:F:263:ASP:HB3	1.72	0.71
1:A:288:VAL:HG23	1:A:289:GLU:N	2.04	0.71
1:D:781:ASN:H	1:D:789:ASN:ND2	1.88	0.71
1:B:776:LEU:O	1:B:780:LEU:HD22	1.90	0.71
1:F:299:GLU:O	1:F:299:GLU:HG2	1.90	0.71
1:B:199:LEU:C	1:B:201:ASP:H	1.94	0.70
2:S:12:PHE:CE1	2:S:72:MET:HG3	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:776:LEU:O	1:E:780:LEU:HD22	1.91	0.70
1:A:70:GLU:HB2	1:A:107:THR:HG22	1.73	0.70
1:D:178:SER:OG	1:D:179:LEU:HD23	1.90	0.70
1:F:89:ILE:HG22	1:F:93:VAL:CG1	2.22	0.70
1:C:412:GLU:C	1:C:414:LYS:H	1.92	0.70
1:B:781:ASN:H	1:B:789:ASN:ND2	1.88	0.70
1:E:199:LEU:C	1:E:201:ASP:H	1.92	0.70
1:A:134:LYS:CG	1:A:136:PRO:HD3	2.20	0.70
1:D:446:ILE:HD11	1:D:451:ASN:HB3	1.71	0.70
1:F:597:ASN:HB2	1:F:598:PRO:HD2	1.72	0.70
1:E:597:ASN:HB2	1:E:598:PRO:HD2	1.73	0.70
1:B:373:LYS:HD3	1:B:376:GLN:NE2	2.06	0.70
2:Q:31:GLU:O	2:Q:35:VAL:HG23	1.91	0.70
1:C:288:VAL:HG23	1:C:289:GLU:N	2.05	0.70
1:F:288:VAL:HG23	1:F:289:GLU:N	2.05	0.70
1:A:776:LEU:O	1:A:780:LEU:HD22	1.91	0.70
1:F:120:LEU:C	1:F:120:LEU:HD13	2.11	0.70
1:C:257:LEU:HD12	1:C:261:ALA:HB3	1.73	0.70
1:A:89:ILE:HG22	1:A:93:VAL:CG1	2.20	0.70
1:E:180:ASP:CG	1:E:181:ILE:H	1.93	0.70
1:E:89:ILE:HG22	1:E:93:VAL:CG1	2.22	0.70
2:P:97:ASN:N	2:P:97:ASN:HD22	1.76	0.70
2:T:12:PHE:CE1	2:T:72:MET:HG3	2.26	0.70
1:A:597:ASN:HB2	1:A:598:PRO:HD2	1.73	0.70
1:F:123:GLU:HG2	1:F:124:GLU:N	2.05	0.70
1:C:333:LYS:H	1:C:333:LYS:HD2	1.57	0.70
2:O:36:MET:HE3	2:O:43:PRO:HG3	1.72	0.70
1:B:89:ILE:HG22	1:B:93:VAL:CG1	2.21	0.70
1:B:664:ILE:HG21	2:P:15:ALA:HB2	1.72	0.70
2:O:12:PHE:CE1	2:O:72:MET:HG3	2.26	0.70
1:D:105:TYR:HB2	1:D:153:ILE:HG12	1.72	0.70
1:C:715:GLU:HA	1:C:718:ARG:HH12	1.54	0.70
1:B:333:LYS:HD2	1:B:333:LYS:H	1.57	0.70
2:R:12:PHE:CE1	2:R:72:MET:HG3	2.26	0.70
1:E:120:LEU:C	1:E:120:LEU:HD13	2.11	0.70
1:D:442:TYR:HD1	1:D:455:TYR:HD1	1.40	0.70
1:F:333:LYS:H	1:F:333:LYS:HD2	1.56	0.70
1:D:659:THR:OG1	1:D:662:GLU:HB2	1.92	0.70
1:B:792:VAL:O	1:B:796:ILE:HG12	1.92	0.70
1:F:792:VAL:O	1:F:796:ILE:HG12	1.92	0.70
1:C:442:TYR:HD1	1:C:455:TYR:HD1	1.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:186:LYS:CB	1:C:190:PRO:HD3	2.22	0.69
1:D:597:ASN:HB2	1:D:598:PRO:HD2	1.73	0.69
1:E:373:LYS:HD3	1:E:376:GLN:NE2	2.07	0.69
1:A:548:THR:N	5:A:901:CMP:HN61	1.86	0.69
1:F:178:SER:OG	1:F:179:LEU:HD23	1.90	0.69
1:E:333:LYS:HD2	1:E:333:LYS:H	1.57	0.69
1:F:715:GLU:HA	1:F:718:ARG:HH12	1.56	0.69
1:A:446:ILE:HD11	1:A:451:ASN:HB3	1.73	0.69
2:Q:12:PHE:CE1	2:Q:72:MET:HG3	2.26	0.69
1:D:120:LEU:HD13	1:D:120:LEU:C	2.11	0.69
1:C:120:LEU:HD13	1:C:120:LEU:C	2.11	0.69
1:C:792:VAL:O	1:C:796:ILE:HG12	1.91	0.69
1:A:442:TYR:HD1	1:A:455:TYR:HD1	1.40	0.69
1:D:715:GLU:HA	1:D:718:ARG:HH12	1.55	0.69
1:A:792:VAL:O	1:A:796:ILE:HG12	1.93	0.69
1:F:697:ILE:HD13	1:F:732:ILE:CD1	2.22	0.69
1:E:446:ILE:HD11	1:E:451:ASN:HB3	1.75	0.69
1:B:446:ILE:HD11	1:B:451:ASN:HB3	1.75	0.69
1:E:501:LEU:HB2	1:E:623:ASP:O	1.92	0.69
1:F:180:ASP:C	1:F:182:ILE:H	1.96	0.69
1:A:134:LYS:HG2	1:A:136:PRO:CG	2.21	0.69
1:A:333:LYS:H	1:A:333:LYS:HD2	1.58	0.69
1:E:659:THR:OG1	1:E:662:GLU:HB2	1.91	0.69
1:D:792:VAL:O	1:D:796:ILE:HG12	1.92	0.69
1:C:128:MET:O	1:C:128:MET:HG2	1.91	0.69
1:F:426:ILE:HD13	1:F:431:LYS:HA	1.75	0.69
1:F:659:THR:OG1	1:F:662:GLU:HB2	1.92	0.69
1:B:426:ILE:HD13	1:B:431:LYS:HA	1.74	0.69
1:E:792:VAL:O	1:E:796:ILE:HG12	1.92	0.69
1:A:186:LYS:HB2	1:A:190:PRO:HD3	1.74	0.69
1:D:89:ILE:HG22	1:D:93:VAL:CG1	2.21	0.69
1:F:446:ILE:HD11	1:F:451:ASN:HB3	1.73	0.69
1:D:373:LYS:HD3	1:D:376:GLN:NE2	2.07	0.69
1:D:697:ILE:HD13	1:D:732:ILE:CD1	2.22	0.69
1:C:278:LYS:HE3	1:C:279:ILE:HD11	1.75	0.69
1:C:597:ASN:HB2	1:C:598:PRO:HD2	1.73	0.69
2:T:49:GLN:N	2:T:49:GLN:HE21	1.90	0.69
1:E:426:ILE:HD13	1:E:431:LYS:HA	1.75	0.69
1:B:123:GLU:HG2	1:B:124:GLU:N	2.07	0.69
1:D:389:LYS:HA	1:D:392:THR:HB	1.73	0.69
1:A:128:MET:O	1:A:128:MET:CG	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:426:ILE:HD13	1:A:431:LYS:HA	1.75	0.69
1:A:389:LYS:HA	1:A:392:THR:HB	1.74	0.69
1:C:426:ILE:HD13	1:C:431:LYS:HA	1.75	0.69
1:C:373:LYS:HD3	1:C:376:GLN:NE2	2.08	0.69
1:E:70:GLU:HB2	1:E:107:THR:HG22	1.75	0.68
1:D:333:LYS:HD2	1:D:333:LYS:H	1.58	0.68
2:P:49:GLN:N	2:P:49:GLN:HE21	1.90	0.68
1:A:501:LEU:HB2	1:A:623:ASP:O	1.93	0.68
1:C:501:LEU:HB2	1:C:623:ASP:O	1.92	0.68
1:F:389:LYS:HA	1:F:392:THR:HB	1.74	0.68
1:A:373:LYS:HD3	1:A:376:GLN:NE2	2.07	0.68
1:B:389:LYS:HA	1:B:392:THR:HB	1.74	0.68
1:C:389:LYS:HA	1:C:392:THR:HB	1.74	0.68
1:F:373:LYS:HD3	1:F:376:GLN:NE2	2.08	0.68
1:B:442:TYR:HD1	1:B:455:TYR:HD1	1.39	0.68
1:B:180:ASP:CG	1:B:181:ILE:H	1.95	0.68
2:Q:49:GLN:N	2:Q:49:GLN:HE21	1.91	0.68
1:F:442:TYR:HD1	1:F:455:TYR:HD1	1.40	0.68
1:F:737:LYS:HA	1:F:737:LYS:HE2	1.75	0.68
1:B:115:LYS:NZ	1:B:115:LYS:HB3	2.09	0.68
1:C:697:ILE:HD13	1:C:732:ILE:CD1	2.23	0.68
1:E:389:LYS:HA	1:E:392:THR:HB	1.74	0.68
1:D:426:ILE:HD13	1:D:431:LYS:HA	1.76	0.68
1:A:278:LYS:HE3	1:A:279:ILE:HD11	1.76	0.68
1:A:548:THR:N	5:A:901:CMP:N6	2.37	0.68
1:E:186:LYS:O	1:E:188:LEU:O	2.11	0.68
2:R:58:ASP:HB3	2:R:62:THR:HG23	1.75	0.68
1:B:278:LYS:HE3	1:B:279:ILE:HD11	1.76	0.68
2:S:49:GLN:HE21	2:S:49:GLN:N	1.91	0.68
1:E:123:GLU:HG2	1:E:124:GLU:N	2.08	0.68
1:C:89:ILE:HG22	1:C:93:VAL:CG1	2.23	0.68
1:A:657:ILE:HG13	1:A:756:ILE:CD1	2.24	0.68
1:F:148:GLU:HG3	1:F:149:THR:N	2.09	0.68
1:A:223:LYS:HD3	1:A:224:SER:N	2.09	0.68
1:D:188:LEU:N	1:D:188:LEU:CD2	2.46	0.68
2:O:58:ASP:HB3	2:O:62:THR:HG23	1.75	0.68
2:T:58:ASP:HB3	2:T:62:THR:HG23	1.75	0.68
1:D:278:LYS:HE3	1:D:279:ILE:HD11	1.76	0.68
1:F:257:LEU:HD12	1:F:261:ALA:HB3	1.76	0.68
1:A:115:LYS:HB3	1:A:115:LYS:NZ	2.09	0.68
1:B:197:LYS:HB3	1:B:197:LYS:HZ2	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:296:LEU:CD2	1:E:606:LYS:HE2	2.19	0.68
1:F:142:VAL:HG13	1:F:154:ILE:CD1	2.24	0.68
1:B:659:THR:OG1	1:B:662:GLU:HB2	1.93	0.68
1:F:278:LYS:HE3	1:F:279:ILE:HD11	1.76	0.68
1:E:548:THR:N	5:E:905:CMP:HN61	1.86	0.68
1:A:186:LYS:O	1:A:188:LEU:O	2.11	0.68
1:E:115:LYS:HB3	1:E:115:LYS:NZ	2.09	0.68
1:E:278:LYS:HE3	1:E:279:ILE:HD11	1.76	0.68
1:B:368:GLN:HB2	1:B:384:ASN:OD1	1.94	0.68
1:D:724:ARG:HH11	1:D:724:ARG:HG3	1.59	0.68
1:C:188:LEU:CD2	1:C:188:LEU:N	2.46	0.67
1:C:191:GLU:O	1:C:192:PHE:C	2.32	0.67
1:B:144:GLU:HG2	1:B:177:ILE:HD11	1.75	0.67
1:E:223:LYS:HD3	1:E:224:SER:N	2.09	0.67
2:Q:58:ASP:HB3	2:Q:62:THR:HG23	1.74	0.67
1:E:442:TYR:HD1	1:E:455:TYR:HD1	1.39	0.67
1:A:142:VAL:HG13	1:A:154:ILE:HD11	1.76	0.67
1:B:223:LYS:HD3	1:B:224:SER:N	2.09	0.67
1:F:254:ARG:HD2	1:F:254:ARG:H	1.59	0.67
1:E:254:ARG:HD2	1:E:254:ARG:H	1.60	0.67
1:B:254:ARG:HD2	1:B:254:ARG:H	1.59	0.67
1:C:657:ILE:HG13	1:C:756:ILE:CD1	2.24	0.67
1:F:525:LYS:HE2	2:T:114:GLU:HG2	1.77	0.67
1:E:426:ILE:CD1	1:E:431:LYS:HA	2.25	0.67
1:F:179:LEU:HB2	1:F:183:SER:HB2	1.76	0.67
1:C:659:THR:OG1	1:C:662:GLU:HB2	1.94	0.67
1:F:450:ASN:ND2	1:F:452:GLU:HG3	2.10	0.67
1:B:737:LYS:HA	1:B:737:LYS:HE2	1.77	0.67
1:A:178:SER:OG	1:A:179:LEU:HD23	1.94	0.67
1:D:186:LYS:HB2	1:D:190:PRO:HD3	1.74	0.67
1:C:446:ILE:HG13	1:C:452:GLU:O	1.94	0.67
2:O:49:GLN:HE21	2:O:49:GLN:N	1.91	0.67
1:B:426:ILE:CD1	1:B:431:LYS:HA	2.25	0.67
1:D:548:THR:N	5:D:904:CMP:N6	2.38	0.67
1:F:186:LYS:O	1:F:188:LEU:O	2.11	0.67
2:Q:16:PHE:HA	2:Q:35:VAL:HG11	1.77	0.67
1:F:426:ILE:CD1	1:F:431:LYS:HA	2.25	0.67
2:S:16:PHE:HA	2:S:35:VAL:HG11	1.77	0.67
2:R:16:PHE:HA	2:R:35:VAL:HG11	1.77	0.67
2:T:49:GLN:NE2	2:T:49:GLN:N	2.43	0.67
1:C:737:LYS:HE2	1:C:737:LYS:HA	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:737:LYS:HA	1:E:737:LYS:HE2	1.77	0.67
1:F:223:LYS:HD3	1:F:224:SER:N	2.10	0.67
1:A:142:VAL:HG13	1:A:154:ILE:CD1	2.25	0.67
1:B:657:ILE:HG13	1:B:756:ILE:CD1	2.24	0.67
2:S:58:ASP:HB3	2:S:62:THR:HG23	1.75	0.67
1:D:595:ILE:HG22	1:D:596:ILE:N	2.10	0.67
2:Q:49:GLN:NE2	2:Q:49:GLN:N	2.43	0.67
1:C:368:GLN:HB2	1:C:384:ASN:OD1	1.94	0.67
1:E:180:ASP:C	1:E:182:ILE:H	1.97	0.67
1:F:142:VAL:HG13	1:F:154:ILE:HD11	1.76	0.67
1:F:186:LYS:HB2	1:F:190:PRO:HD3	1.77	0.67
1:A:134:LYS:HG2	1:A:136:PRO:HG3	1.77	0.67
1:D:657:ILE:HG13	1:D:756:ILE:CD1	2.25	0.67
2:R:49:GLN:HE21	2:R:49:GLN:N	1.91	0.67
1:D:368:GLN:HB2	1:D:384:ASN:OD1	1.95	0.67
1:A:737:LYS:HA	1:A:737:LYS:HE2	1.77	0.67
1:B:724:ARG:HG3	1:B:724:ARG:HH11	1.59	0.67
1:C:724:ARG:HG3	1:C:724:ARG:HH11	1.58	0.67
1:B:178:SER:OG	1:B:179:LEU:HD23	1.95	0.66
1:C:186:LYS:HB2	1:C:190:PRO:HD3	1.77	0.66
1:F:115:LYS:NZ	1:F:115:LYS:HB3	2.10	0.66
1:F:131:ARG:HG3	1:F:243:LEU:HD22	1.77	0.66
1:B:630:ARG:NE	2:P:83:GLU:HG2	2.10	0.66
1:A:199:LEU:C	1:A:201:ASP:H	1.97	0.66
2:P:16:PHE:HA	2:P:35:VAL:HG11	1.77	0.66
1:A:659:THR:OG1	1:A:662:GLU:HB2	1.94	0.66
1:C:426:ILE:CD1	1:C:431:LYS:HA	2.25	0.66
1:D:446:ILE:HG13	1:D:452:GLU:O	1.95	0.66
1:F:657:ILE:HG13	1:F:756:ILE:CD1	2.23	0.66
1:F:368:GLN:HB2	1:F:384:ASN:OD1	1.95	0.66
1:A:257:LEU:O	1:A:257:LEU:HG	1.95	0.66
1:A:130:SER:HB2	1:A:170:TYR:CE2	2.30	0.66
1:E:178:SER:OG	1:E:179:LEU:HD23	1.96	0.66
1:C:186:LYS:O	1:C:188:LEU:O	2.13	0.66
1:A:540:ARG:HD3	1:A:627:TYR:OH	1.95	0.66
1:A:191:GLU:O	1:A:193:LEU:N	2.27	0.66
1:B:142:VAL:HG13	1:B:154:ILE:HD11	1.78	0.66
1:F:296:LEU:CD2	1:F:606:LYS:HE2	2.20	0.66
1:D:450:ASN:ND2	1:D:452:GLU:HG3	2.10	0.66
1:A:426:ILE:CD1	1:A:431:LYS:HA	2.25	0.66
2:P:49:GLN:N	2:P:49:GLN:NE2	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:548:THR:N	5:B:902:CMP:HN61	1.87	0.66
1:D:223:LYS:HD3	1:D:224:SER:N	2.10	0.66
1:C:254:ARG:H	1:C:254:ARG:HD2	1.60	0.66
2:P:58:ASP:HB3	2:P:62:THR:HG23	1.76	0.66
1:F:581:GLN:NE2	1:F:629:ASN:H	1.94	0.66
1:E:525:LYS:HE2	2:S:114:GLU:HG2	1.77	0.66
1:E:368:GLN:HB2	1:E:384:ASN:OD1	1.95	0.66
1:C:607:ASN:HB3	1:C:609:GLU:OE2	1.95	0.66
1:C:345:THR:HG22	1:C:490:ALA:O	1.95	0.66
1:A:191:GLU:O	1:A:192:PHE:C	2.32	0.66
1:B:186:LYS:O	1:B:188:LEU:O	2.13	0.66
1:D:115:LYS:HB3	1:D:115:LYS:NZ	2.11	0.66
1:F:199:LEU:C	1:F:201:ASP:H	1.98	0.66
2:O:49:GLN:NE2	2:O:49:GLN:N	2.43	0.66
1:C:548:THR:N	5:C:903:CMP:HN61	1.87	0.66
1:F:607:ASN:HB3	1:F:609:GLU:OE2	1.96	0.66
1:D:426:ILE:CD1	1:D:431:LYS:HA	2.25	0.66
1:B:345:THR:HG22	1:B:490:ALA:O	1.96	0.66
1:E:142:VAL:HG13	1:E:154:ILE:HD11	1.78	0.66
1:E:131:ARG:HG3	1:E:243:LEU:HD21	1.77	0.66
1:D:658:PRO:HG3	1:D:752:LEU:HD22	1.78	0.66
1:A:148:GLU:HG3	1:A:149:THR:N	2.10	0.66
1:D:607:ASN:HB3	1:D:609:GLU:OE2	1.96	0.66
1:E:191:GLU:O	1:E:192:PHE:C	2.35	0.66
1:D:254:ARG:HD2	1:D:254:ARG:H	1.60	0.66
1:A:658:PRO:HG3	1:A:752:LEU:HD22	1.78	0.66
1:F:658:PRO:HG3	1:F:752:LEU:HD22	1.79	0.66
1:C:137:PHE:HD2	1:C:137:PHE:C	2.00	0.66
1:E:112:VAL:O	1:E:114:HIS:N	2.29	0.66
1:B:112:VAL:O	1:B:114:HIS:N	2.29	0.66
1:A:173:ILE:HD12	1:A:243:LEU:CD2	2.26	0.65
1:A:185:ASP:O	1:A:190:PRO:HA	1.96	0.65
1:E:142:VAL:HG13	1:E:154:ILE:CD1	2.26	0.65
1:A:137:PHE:HD2	1:A:137:PHE:C	1.99	0.65
2:S:65:PHE:HB2	2:S:66:PRO:CD	2.25	0.65
2:S:49:GLN:NE2	2:S:49:GLN:N	2.43	0.65
1:F:332:ASN:OD1	1:F:334:LEU:HD13	1.97	0.65
1:A:345:THR:HG22	1:A:490:ALA:O	1.96	0.65
1:F:655:ASN:HD22	1:F:655:ASN:N	1.93	0.65
1:B:142:VAL:HG13	1:B:154:ILE:CD1	2.26	0.65
1:F:173:ILE:HD12	1:F:243:LEU:CD2	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:65:PHE:HB2	2:P:66:PRO:CD	2.26	0.65
1:A:607:ASN:HB3	1:A:609:GLU:OE2	1.96	0.65
1:E:173:ILE:HD12	1:E:243:LEU:CD2	2.27	0.65
1:C:142:VAL:HG13	1:C:154:ILE:CD1	2.26	0.65
1:C:216:GLU:HG3	1:C:217:LYS:HG2	1.78	0.65
2:O:16:PHE:HA	2:O:35:VAL:HG11	1.77	0.65
1:D:134:LYS:HG2	1:D:136:PRO:CG	2.26	0.65
1:F:338:LEU:HD21	1:F:409:ARG:CZ	2.26	0.65
1:E:630:ARG:NE	2:S:83:GLU:HG2	2.12	0.65
1:F:595:ILE:HG22	1:F:596:ILE:N	2.12	0.65
1:A:581:GLN:NE2	1:A:629:ASN:H	1.93	0.65
1:C:257:LEU:HG	1:C:257:LEU:O	1.95	0.65
1:D:257:LEU:HD12	1:D:261:ALA:HB3	1.76	0.65
1:E:257:LEU:HG	1:E:257:LEU:O	1.96	0.65
1:E:186:LYS:HB2	1:E:190:PRO:HD3	1.78	0.65
1:C:223:LYS:HD3	1:C:224:SER:N	2.10	0.65
1:C:173:ILE:HD12	1:C:243:LEU:CD2	2.26	0.65
1:B:137:PHE:C	1:B:137:PHE:HD2	1.99	0.65
1:E:137:PHE:HD2	1:E:137:PHE:C	1.99	0.65
1:F:172:GLU:HB3	1:F:246:SER:HA	1.79	0.65
1:A:338:LEU:HD21	1:A:409:ARG:CZ	2.25	0.65
1:B:581:GLN:NE2	1:B:629:ASN:H	1.94	0.65
1:A:172:GLU:HB3	1:A:246:SER:HA	1.78	0.65
1:D:142:VAL:HG13	1:D:154:ILE:HD11	1.78	0.65
1:D:172:GLU:HB3	1:D:246:SER:HA	1.78	0.65
1:D:175:LYS:CB	1:D:175:LYS:NZ	2.60	0.65
1:C:172:GLU:HB3	1:C:246:SER:HA	1.79	0.65
1:F:137:PHE:C	1:F:137:PHE:HD2	2.00	0.65
1:C:450:ASN:ND2	1:C:452:GLU:HG3	2.12	0.65
1:B:450:ASN:ND2	1:B:452:GLU:HG3	2.11	0.65
1:C:759:GLN:HE21	1:C:759:GLN:CA	2.09	0.65
1:B:338:LEU:HD21	1:B:409:ARG:CZ	2.26	0.65
1:E:657:ILE:HG13	1:E:756:ILE:CD1	2.25	0.65
2:R:49:GLN:NE2	2:R:49:GLN:N	2.44	0.65
1:D:737:LYS:HA	1:D:737:LYS:HE2	1.77	0.65
2:T:12:PHE:CD1	2:T:72:MET:HG3	2.32	0.65
1:F:134:LYS:HG2	1:F:136:PRO:CG	2.26	0.65
1:C:635:ILE:HD12	1:C:635:ILE:N	2.11	0.65
1:A:450:ASN:ND2	1:A:452:GLU:HG3	2.10	0.65
1:F:216:GLU:HG3	1:F:217:LYS:HG2	1.79	0.65
1:D:655:ASN:N	1:D:655:ASN:HD22	1.94	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:724:ARG:HH11	1:A:724:ARG:HG3	1.61	0.65
1:A:141:PHE:HB2	1:A:155:ASN:OD1	1.97	0.65
1:D:747:ASN:O	1:D:750:GLN:HB2	1.97	0.65
1:D:134:LYS:HG2	1:D:136:PRO:HG3	1.79	0.65
2:S:58:ASP:C	2:S:60:ASN:H	2.00	0.65
2:T:16:PHE:HA	2:T:35:VAL:HG11	1.78	0.65
1:D:354:SER:O	1:D:371:SER:HB2	1.96	0.65
1:E:508:ILE:HG23	1:E:536:TYR:CE2	2.32	0.65
1:D:191:GLU:O	1:D:193:LEU:N	2.30	0.65
1:C:142:VAL:HG13	1:C:154:ILE:HD11	1.77	0.65
1:D:137:PHE:HD2	1:D:137:PHE:C	2.00	0.65
2:P:12:PHE:CD1	2:P:72:MET:HG3	2.32	0.65
2:R:36:MET:HE3	2:R:43:PRO:HG3	1.79	0.65
1:B:173:ILE:HD12	1:B:243:LEU:CD2	2.27	0.65
1:C:115:LYS:HB3	1:C:115:LYS:NZ	2.11	0.65
1:B:141:PHE:HB2	1:B:155:ASN:OD1	1.97	0.65
1:F:180:ASP:O	1:F:182:ILE:N	2.30	0.65
1:C:658:PRO:HG3	1:C:752:LEU:HD22	1.79	0.65
1:E:450:ASN:ND2	1:E:452:GLU:HG3	2.12	0.65
2:S:5:THR:CG2	2:S:8:GLN:HB2	2.27	0.65
1:E:635:ILE:N	1:E:635:ILE:HD12	2.12	0.65
1:D:338:LEU:HD21	1:D:409:ARG:CZ	2.27	0.65
1:C:595:ILE:HG22	1:C:596:ILE:N	2.12	0.65
1:C:540:ARG:HD3	1:C:627:TYR:OH	1.97	0.65
1:D:257:LEU:HG	1:D:257:LEU:O	1.97	0.65
1:B:172:GLU:HB3	1:B:246:SER:HA	1.79	0.65
1:D:142:VAL:HG13	1:D:154:ILE:CD1	2.26	0.65
1:D:173:ILE:HD12	1:D:243:LEU:CD2	2.26	0.65
1:E:172:GLU:HB3	1:E:246:SER:HA	1.79	0.65
1:E:134:LYS:HG2	1:E:136:PRO:HG3	1.78	0.65
1:D:141:PHE:HB2	1:D:155:ASN:OD1	1.97	0.65
2:Q:5:THR:CG2	2:Q:8:GLN:HB2	2.27	0.65
1:E:595:ILE:HG22	1:E:596:ILE:N	2.12	0.65
1:C:504:ILE:O	1:C:507:GLN:HB3	1.97	0.65
1:B:525:LYS:HE2	2:P:114:GLU:HG2	1.77	0.65
1:E:540:ARG:HD3	1:E:627:TYR:OH	1.96	0.65
1:C:257:LEU:O	1:C:265:PHE:HB2	1.97	0.65
1:A:257:LEU:O	1:A:265:PHE:HB2	1.97	0.65
1:C:655:ASN:HD22	1:C:655:ASN:N	1.93	0.65
1:D:70:GLU:HB2	1:D:107:THR:HG22	1.79	0.64
1:F:186:LYS:CB	1:F:190:PRO:HD3	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:658:PRO:HG3	1:B:752:LEU:HD22	1.79	0.64
1:A:595:ILE:HG22	1:A:596:ILE:N	2.12	0.64
1:C:525:LYS:HE2	2:Q:114:GLU:HG2	1.79	0.64
1:B:134:LYS:HG2	1:B:136:PRO:HG3	1.79	0.64
2:T:65:PHE:HB2	2:T:66:PRO:CD	2.25	0.64
2:R:65:PHE:HB2	2:R:66:PRO:CD	2.27	0.64
1:E:581:GLN:NE2	1:E:629:ASN:H	1.95	0.64
1:E:658:PRO:HG3	1:E:752:LEU:HD22	1.79	0.64
1:C:354:SER:O	1:C:371:SER:HB2	1.96	0.64
1:A:112:VAL:O	1:A:114:HIS:N	2.28	0.64
1:E:607:ASN:HB3	1:E:609:GLU:OE2	1.96	0.64
1:E:724:ARG:HG3	1:E:724:ARG:HH11	1.61	0.64
1:E:548:THR:N	5:E:905:CMP:N6	2.38	0.64
1:E:175:LYS:NZ	1:E:175:LYS:CB	2.61	0.64
1:E:216:GLU:HG3	1:E:217:LYS:HG2	1.78	0.64
1:A:127:SER:HB3	1:A:133:GLU:OE2	1.97	0.64
2:T:69:LEU:HD12	2:T:69:LEU:O	1.97	0.64
1:E:338:LEU:HD21	1:E:409:ARG:CZ	2.26	0.64
1:B:332:ASN:OD1	1:B:334:LEU:HD13	1.96	0.64
1:A:525:LYS:HE2	2:O:114:GLU:HG2	1.78	0.64
1:D:332:ASN:OD1	1:D:334:LEU:HD13	1.98	0.64
1:E:332:ASN:OD1	1:E:334:LEU:HD13	1.97	0.64
1:D:186:LYS:O	1:D:188:LEU:O	2.14	0.64
1:E:187:SER:N	1:E:188:LEU:O	2.31	0.64
1:B:728:ALA:O	1:B:732:ILE:HG12	1.97	0.64
1:B:747:ASN:O	1:B:750:GLN:HB2	1.98	0.64
2:T:5:THR:CG2	2:T:8:GLN:HB2	2.28	0.64
2:R:12:PHE:CD1	2:R:72:MET:HG3	2.32	0.64
1:D:504:ILE:O	1:D:507:GLN:HB3	1.97	0.64
1:C:120:LEU:O	1:C:120:LEU:HD12	1.97	0.64
1:D:345:THR:HG22	1:D:490:ALA:O	1.97	0.64
1:E:345:THR:HG22	1:E:490:ALA:O	1.98	0.64
1:C:131:ARG:HG3	1:C:243:LEU:HD22	1.78	0.64
1:F:134:LYS:HG2	1:F:136:PRO:HG3	1.79	0.64
2:Q:12:PHE:CD1	2:Q:72:MET:HG3	2.32	0.64
1:C:338:LEU:HD21	1:C:409:ARG:CZ	2.27	0.64
1:D:525:LYS:HE2	2:R:114:GLU:HG2	1.78	0.64
1:A:504:ILE:O	1:A:507:GLN:HB3	1.98	0.64
1:F:120:LEU:HD12	1:F:120:LEU:O	1.97	0.64
1:D:120:LEU:O	1:D:120:LEU:HD12	1.97	0.64
1:E:257:LEU:O	1:E:265:PHE:HB2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:332:ASN:OD1	1:A:334:LEU:HD13	1.97	0.64
1:C:692:GLU:O	1:C:696:LYS:HG3	1.98	0.64
1:E:692:GLU:O	1:E:696:LYS:HG3	1.98	0.64
2:R:92:PHE:O	2:R:94:LYS:N	2.30	0.64
1:F:724:ARG:HG3	1:F:724:ARG:HH11	1.61	0.64
1:A:216:GLU:HG3	1:A:217:LYS:HG2	1.79	0.64
1:A:254:ARG:H	1:A:254:ARG:HD2	1.61	0.64
2:P:55:VAL:HG21	2:P:67:GLU:OE1	1.98	0.64
2:R:97:ASN:ND2	2:R:97:ASN:N	2.37	0.64
2:S:12:PHE:CD1	2:S:72:MET:HG3	2.32	0.64
1:B:447:SER:HB3	1:B:450:ASN:O	1.98	0.64
1:B:595:ILE:HG22	1:B:596:ILE:N	2.12	0.64
1:D:412:GLU:C	1:D:414:LYS:N	2.51	0.64
1:E:504:ILE:O	1:E:507:GLN:HB3	1.97	0.64
1:B:540:ARG:HD3	1:B:627:TYR:OH	1.97	0.64
1:F:345:THR:HG22	1:F:490:ALA:O	1.98	0.64
1:B:607:ASN:HB3	1:B:609:GLU:OE2	1.98	0.64
2:P:58:ASP:C	2:P:60:ASN:H	2.01	0.64
2:T:58:ASP:C	2:T:60:ASN:H	2.00	0.64
1:A:635:ILE:HD12	1:A:635:ILE:N	2.10	0.64
1:F:257:LEU:O	1:F:265:PHE:HB2	1.97	0.64
1:F:508:ILE:HG23	1:F:536:TYR:CE2	2.33	0.64
1:C:508:ILE:HG23	1:C:536:TYR:CE2	2.33	0.64
1:B:257:LEU:O	1:B:257:LEU:HG	1.96	0.64
1:A:368:GLN:HB2	1:A:384:ASN:OD1	1.97	0.64
1:B:655:ASN:HD22	1:B:655:ASN:N	1.94	0.64
1:E:180:ASP:O	1:E:182:ILE:N	2.31	0.64
1:D:759:GLN:CA	1:D:759:GLN:HE21	2.10	0.64
1:A:508:ILE:HG23	1:A:536:TYR:CE2	2.33	0.64
1:B:180:ASP:C	1:B:182:ILE:H	2.00	0.64
1:C:180:ASP:C	1:C:182:ILE:H	2.01	0.64
1:E:747:ASN:O	1:E:750:GLN:HB2	1.98	0.64
2:O:58:ASP:C	2:O:60:ASN:H	2.01	0.64
1:C:405:LEU:HD13	1:C:453:VAL:CG2	2.28	0.64
1:C:141:PHE:HB2	1:C:155:ASN:OD1	1.98	0.64
1:F:540:ARG:HD3	1:F:627:TYR:OH	1.97	0.64
1:B:120:LEU:O	1:B:120:LEU:HD12	1.97	0.64
1:B:257:LEU:O	1:B:265:PHE:HB2	1.97	0.64
1:D:692:GLU:O	1:D:696:LYS:HG3	1.98	0.64
1:D:540:ARG:HD3	1:D:627:TYR:OH	1.98	0.64
1:C:457:THR:OG1	1:C:468:LYS:HG3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:217:LYS:HG3	1:F:236:GLU:HG3	1.80	0.64
1:C:332:ASN:OD1	1:C:334:LEU:HD13	1.97	0.64
1:B:66:LEU:HD12	1:B:103:GLU:HA	1.81	0.63
2:S:69:LEU:HD12	2:S:69:LEU:O	1.98	0.63
1:A:310:GLU:OE2	1:A:340:LYS:HD2	1.98	0.63
2:S:55:VAL:HG21	2:S:67:GLU:OE1	1.98	0.63
1:B:504:ILE:O	1:B:507:GLN:HB3	1.97	0.63
1:A:457:THR:OG1	1:A:468:LYS:HG3	1.98	0.63
1:B:216:GLU:HG3	1:B:217:LYS:HG2	1.79	0.63
1:D:216:GLU:HG3	1:D:217:LYS:HG2	1.79	0.63
1:D:131:ARG:HG3	1:D:243:LEU:HD21	1.78	0.63
1:C:296:LEU:CD2	1:C:606:LYS:HE2	2.21	0.63
1:F:187:SER:N	1:F:188:LEU:O	2.31	0.63
1:E:310:GLU:OE2	1:E:340:LYS:HD2	1.98	0.63
2:T:13:LYS:HZ1	2:T:65:PHE:HB3	1.62	0.63
1:F:412:GLU:C	1:F:414:LYS:N	2.52	0.63
1:B:426:ILE:HD11	1:B:431:LYS:HG2	1.81	0.63
1:F:66:LEU:HD12	1:F:103:GLU:HA	1.80	0.63
1:A:99:GLU:C	1:A:101:GLY:H	2.02	0.63
1:A:187:SER:N	1:A:188:LEU:O	2.31	0.63
1:F:188:LEU:N	1:F:188:LEU:CD2	2.46	0.63
1:C:747:ASN:O	1:C:750:GLN:HB2	1.97	0.63
1:A:412:GLU:C	1:A:414:LYS:N	2.51	0.63
2:R:55:VAL:HG21	2:R:67:GLU:OE1	1.98	0.63
2:R:58:ASP:C	2:R:60:ASN:H	2.00	0.63
1:E:257:LEU:HD12	1:E:261:ALA:HB3	1.81	0.63
2:O:65:PHE:HB2	2:O:66:PRO:CD	2.25	0.63
2:Q:58:ASP:C	2:Q:60:ASN:H	2.01	0.63
1:D:137:PHE:CD2	1:D:137:PHE:C	2.72	0.63
1:F:310:GLU:OE2	1:F:340:LYS:HD2	1.99	0.63
1:D:581:GLN:NE2	1:D:629:ASN:H	1.95	0.63
1:C:581:GLN:NE2	1:C:629:ASN:H	1.96	0.63
1:C:112:VAL:O	1:C:114:HIS:N	2.29	0.63
1:B:508:ILE:HG23	1:B:536:TYR:CE2	2.33	0.63
1:A:144:GLU:HG2	1:A:177:ILE:HD11	1.79	0.63
1:F:182:ILE:O	1:F:187:SER:HB2	1.99	0.63
1:A:137:PHE:CD2	1:A:137:PHE:C	2.72	0.63
2:Q:33:GLY:O	2:Q:37:ARG:HG3	1.99	0.63
1:A:446:ILE:HG12	1:A:447:SER:N	2.13	0.63
1:C:137:PHE:CD2	1:C:137:PHE:C	2.72	0.63
1:E:457:THR:OG1	1:E:468:LYS:HG3	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:120:LEU:HD12	1:E:120:LEU:O	1.97	0.63
1:C:501:LEU:HD11	2:Q:108:VAL:HG13	1.80	0.63
1:B:191:GLU:O	1:B:193:LEU:N	2.31	0.63
2:T:55:VAL:HG21	2:T:67:GLU:OE1	1.98	0.63
2:P:5:THR:CG2	2:P:8:GLN:HB2	2.28	0.63
2:O:12:PHE:CD1	2:O:72:MET:HG3	2.33	0.63
1:F:504:ILE:O	1:F:507:GLN:HB3	1.98	0.63
1:D:457:THR:OG1	1:D:468:LYS:HG3	1.99	0.63
2:Q:36:MET:HE2	2:Q:43:PRO:HG3	1.79	0.63
1:E:426:ILE:HD11	1:E:431:LYS:HG2	1.81	0.63
1:F:257:LEU:HG	1:F:257:LEU:O	1.96	0.63
1:D:508:ILE:HG23	1:D:536:TYR:CE2	2.34	0.63
1:F:112:VAL:O	1:F:114:HIS:N	2.30	0.63
1:D:520:PRO:HG2	1:D:521:ASN:H	1.64	0.63
2:Q:92:PHE:O	2:Q:94:LYS:N	2.31	0.63
1:E:144:GLU:HG2	1:E:177:ILE:HD11	1.81	0.63
1:B:99:GLU:C	1:B:101:GLY:H	2.01	0.63
1:C:412:GLU:C	1:C:414:LYS:N	2.51	0.63
2:T:121:VAL:C	2:T:123:GLN:H	2.02	0.63
1:C:217:LYS:HG3	1:C:236:GLU:HG3	1.81	0.63
1:E:161:ILE:CG2	1:E:168:GLU:HB2	2.28	0.63
1:C:310:GLU:OE2	1:C:340:LYS:HD2	1.99	0.63
1:D:447:SER:HB3	1:D:450:ASN:O	1.99	0.63
1:A:426:ILE:HD11	1:A:431:LYS:HG2	1.81	0.63
1:C:505:LYS:C	1:C:507:GLN:H	2.02	0.63
1:B:548:THR:N	5:B:902:CMP:N6	2.38	0.63
1:E:66:LEU:HD12	1:E:103:GLU:HA	1.81	0.63
1:E:141:PHE:HB2	1:E:155:ASN:OD1	1.99	0.63
1:F:70:GLU:HB2	1:F:107:THR:HG22	1.80	0.63
1:C:728:ALA:O	1:C:732:ILE:HG12	1.99	0.63
1:F:728:ALA:O	1:F:732:ILE:HG12	1.99	0.63
2:O:55:VAL:HG21	2:O:67:GLU:OE1	1.99	0.63
1:D:635:ILE:N	1:D:635:ILE:HD12	2.11	0.63
1:F:426:ILE:HD11	1:F:431:LYS:HG2	1.81	0.63
1:E:447:SER:HB3	1:E:450:ASN:O	1.99	0.63
1:B:403:LEU:HG	1:B:405:LEU:HD12	1.81	0.63
1:E:360:VAL:HG21	1:E:365:PRO:HB3	1.80	0.63
1:E:728:ALA:O	1:E:732:ILE:HG12	1.99	0.62
1:A:747:ASN:O	1:A:750:GLN:HB2	1.98	0.62
1:C:446:ILE:HG12	1:C:447:SER:N	2.13	0.62
1:B:447:SER:OG	1:B:448:ASP:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:594:PHE:HE2	1:A:596:ILE:HD11	1.64	0.62
1:A:692:GLU:O	1:A:696:LYS:HG3	1.99	0.62
1:B:217:LYS:HG3	1:B:236:GLU:HG3	1.81	0.62
1:D:180:ASP:C	1:D:182:ILE:H	2.01	0.62
1:E:137:PHE:CD2	1:E:137:PHE:C	2.72	0.62
1:F:193:LEU:O	1:F:197:LYS:HB2	1.99	0.62
2:P:69:LEU:O	2:P:69:LEU:HD12	1.99	0.62
1:F:141:PHE:HB2	1:F:155:ASN:OD1	1.99	0.62
1:E:377:GLN:O	1:E:378:LEU:HD12	1.99	0.62
1:E:99:GLU:C	1:E:101:GLY:H	2.02	0.62
1:B:310:GLU:OE2	1:B:340:LYS:HD2	1.98	0.62
1:B:186:LYS:HB2	1:B:190:PRO:CD	2.29	0.62
1:E:152:LEU:HD21	1:E:154:ILE:HD11	1.80	0.62
1:E:184:LYS:HZ1	1:E:191:GLU:HB2	1.65	0.62
1:E:193:LEU:O	1:E:197:LYS:HB2	2.00	0.62
1:F:175:LYS:CB	1:F:175:LYS:NZ	2.62	0.62
1:F:747:ASN:O	1:F:750:GLN:HB2	1.99	0.62
1:C:426:ILE:HD11	1:C:431:LYS:HG2	1.81	0.62
1:E:446:ILE:HG12	1:E:447:SER:N	2.13	0.62
2:R:121:VAL:C	2:R:123:GLN:H	2.02	0.62
1:A:257:LEU:HD12	1:A:261:ALA:HB3	1.80	0.62
1:A:193:LEU:O	1:A:197:LYS:HB2	1.99	0.62
1:F:446:ILE:HG12	1:F:447:SER:N	2.13	0.62
1:E:752:LEU:O	1:E:756:ILE:HG12	1.99	0.62
1:E:505:LYS:C	1:E:507:GLN:H	2.02	0.62
2:S:121:VAL:C	2:S:123:GLN:H	2.02	0.62
1:A:120:LEU:HD12	1:A:120:LEU:O	1.97	0.62
2:O:121:VAL:C	2:O:123:GLN:H	2.01	0.62
1:C:700:TYR:CE1	1:C:727:GLN:HB3	2.34	0.62
1:A:217:LYS:HG3	1:A:236:GLU:HG3	1.81	0.62
1:D:191:GLU:O	1:D:192:PHE:C	2.37	0.62
1:D:217:LYS:HG3	1:D:236:GLU:HG3	1.81	0.62
1:E:217:LYS:HG3	1:E:236:GLU:HG3	1.81	0.62
1:B:137:PHE:CD2	1:B:137:PHE:C	2.72	0.62
2:R:69:LEU:O	2:R:69:LEU:HD12	1.99	0.62
1:B:635:ILE:HD12	1:B:635:ILE:N	2.12	0.62
1:F:403:LEU:HG	1:F:405:LEU:HD12	1.81	0.62
1:D:446:ILE:HG12	1:D:447:SER:N	2.13	0.62
1:C:134:LYS:HG2	1:C:136:PRO:HG3	1.82	0.62
1:A:759:GLN:CA	1:A:759:GLN:HE21	2.11	0.62
1:F:505:LYS:C	1:F:507:GLN:H	2.03	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:257:LEU:O	1:D:265:PHE:HB2	1.99	0.62
1:B:592:GLU:HB3	1:B:604:LEU:HD11	1.81	0.62
1:E:107:THR:CG2	1:E:115:LYS:HD2	2.29	0.62
1:B:161:ILE:CG2	1:B:168:GLU:HB2	2.29	0.62
1:D:743:PRO:HA	1:D:746:LYS:HB3	1.82	0.62
1:D:403:LEU:HG	1:D:405:LEU:HD12	1.81	0.62
1:D:112:VAL:O	1:D:114:HIS:N	2.29	0.62
1:B:360:VAL:HG21	1:B:365:PRO:HB3	1.81	0.62
1:D:185:ASP:O	1:D:190:PRO:HA	1.99	0.62
1:C:189:ASP:O	1:C:191:GLU:N	2.32	0.62
2:O:33:GLY:O	2:O:37:ARG:HG3	2.00	0.62
1:D:426:ILE:HD11	1:D:431:LYS:HG2	1.81	0.62
1:A:403:LEU:HG	1:A:405:LEU:HD12	1.82	0.62
1:B:457:THR:OG1	1:B:468:LYS:HG3	1.99	0.62
1:A:354:SER:O	1:A:371:SER:HB2	1.99	0.62
1:E:592:GLU:HB3	1:E:604:LEU:HD11	1.82	0.62
1:D:99:GLU:C	1:D:101:GLY:H	2.02	0.62
1:A:180:ASP:CG	1:A:181:ILE:H	2.02	0.62
1:B:152:LEU:HD21	1:B:154:ILE:HD11	1.81	0.62
1:D:193:LEU:O	1:D:197:LYS:HB2	1.99	0.62
1:D:199:LEU:C	1:D:201:ASP:H	2.03	0.62
1:C:743:PRO:HA	1:C:746:LYS:HB3	1.82	0.62
1:D:728:ALA:O	1:D:732:ILE:HG12	2.00	0.62
1:F:137:PHE:C	1:F:137:PHE:CD2	2.72	0.62
1:D:310:GLU:OE2	1:D:340:LYS:HD2	1.99	0.62
1:C:752:LEU:O	1:C:756:ILE:HG12	1.99	0.62
1:C:447:SER:HB3	1:C:450:ASN:O	2.00	0.62
1:F:405:LEU:HD13	1:F:453:VAL:CG2	2.29	0.62
1:E:403:LEU:HG	1:E:405:LEU:HD12	1.82	0.62
1:D:360:VAL:HG21	1:D:365:PRO:HB3	1.80	0.62
1:A:180:ASP:C	1:A:182:ILE:H	2.01	0.62
1:F:186:LYS:HA	1:F:190:PRO:CD	2.25	0.62
2:S:13:LYS:HZ1	2:S:65:PHE:HB3	1.64	0.62
1:E:447:SER:OG	1:E:448:ASP:N	2.33	0.62
1:A:447:SER:HB3	1:A:450:ASN:O	1.98	0.62
1:C:254:ARG:HH11	1:C:254:ARG:HB3	1.65	0.62
1:E:127:SER:HB3	1:E:133:GLU:OE2	2.00	0.62
1:A:728:ALA:O	1:A:732:ILE:HG12	1.99	0.62
2:Q:65:PHE:HB2	2:Q:66:PRO:CD	2.26	0.62
2:O:69:LEU:O	2:O:69:LEU:HD12	2.00	0.62
1:B:446:ILE:HG12	1:B:447:SER:N	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:630:ARG:NE	2:O:83:GLU:HG2	2.15	0.62
1:D:501:LEU:HD11	2:R:108:VAL:HG13	1.81	0.62
1:D:187:SER:N	1:D:188:LEU:O	2.33	0.61
1:F:107:THR:CG2	1:F:115:LYS:HD2	2.30	0.61
2:R:33:GLY:O	2:R:37:ARG:HG3	2.00	0.61
2:Q:55:VAL:HG21	2:Q:67:GLU:OE1	1.98	0.61
2:P:121:VAL:C	2:P:123:GLN:H	2.02	0.61
1:E:301:ALA:O	1:E:303:LYS:N	2.33	0.61
1:B:520:PRO:HG2	1:B:521:ASN:H	1.65	0.61
1:E:520:PRO:HG2	1:E:521:ASN:H	1.65	0.61
1:F:548:THR:N	5:F:906:CMP:N6	2.38	0.61
1:B:115:LYS:HB3	1:B:115:LYS:HZ3	1.66	0.61
1:E:185:ASP:O	1:E:190:PRO:CA	2.48	0.61
1:C:70:GLU:HB2	1:C:107:THR:HG22	1.82	0.61
1:C:66:LEU:HD12	1:C:103:GLU:HA	1.81	0.61
1:E:668:SER:CA	2:S:14:GLU:HG3	2.26	0.61
1:E:743:PRO:HA	1:E:746:LYS:HB3	1.82	0.61
2:P:33:GLY:O	2:P:37:ARG:HG3	2.00	0.61
1:F:127:SER:HB3	1:F:133:GLU:OE2	1.99	0.61
1:C:409:ARG:NE	1:C:413:LEU:HD21	2.15	0.61
1:B:505:LYS:C	1:B:507:GLN:H	2.02	0.61
1:F:520:PRO:HG2	1:F:521:ASN:H	1.65	0.61
1:A:527:LYS:HD2	2:O:145:MET:O	2.00	0.61
1:A:655:ASN:HD22	1:A:655:ASN:N	1.95	0.61
1:B:184:LYS:HZ2	1:B:191:GLU:HG3	1.66	0.61
1:F:409:ARG:NE	1:F:413:LEU:HD21	2.15	0.61
1:C:99:GLU:C	1:C:101:GLY:H	2.02	0.61
1:A:520:PRO:HG2	1:A:521:ASN:H	1.64	0.61
1:C:128:MET:CG	1:C:128:MET:O	2.48	0.61
1:B:412:GLU:C	1:B:414:LYS:N	2.52	0.61
1:F:501:LEU:HD11	2:T:108:VAL:HG13	1.82	0.61
1:E:501:LEU:HD11	2:S:108:VAL:HG13	1.82	0.61
1:A:377:GLN:O	1:A:378:LEU:HD12	2.01	0.61
2:T:92:PHE:O	2:T:94:LYS:N	2.32	0.61
1:F:360:VAL:HG21	1:F:365:PRO:HB3	1.81	0.61
1:A:343:VAL:HG13	1:A:487:PRO:HG2	1.82	0.61
2:T:97:ASN:ND2	2:T:97:ASN:N	2.37	0.61
1:E:412:GLU:C	1:E:414:LYS:N	2.51	0.61
2:O:92:PHE:O	2:O:94:LYS:N	2.32	0.61
1:C:180:ASP:O	1:C:182:ILE:N	2.33	0.61
1:C:193:LEU:O	1:C:197:LYS:HB2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:743:PRO:HA	1:B:746:LYS:HB3	1.82	0.61
1:A:409:ARG:NE	1:A:413:LEU:HD21	2.15	0.61
1:F:301:ALA:O	1:F:303:LYS:N	2.34	0.61
1:B:193:LEU:O	1:B:197:LYS:HB2	2.00	0.61
2:Q:69:LEU:O	2:Q:69:LEU:HD12	2.00	0.61
1:F:446:ILE:HG13	1:F:452:GLU:O	2.00	0.61
2:Q:121:VAL:C	2:Q:123:GLN:H	2.02	0.61
1:B:372:LYS:HG3	1:B:373:LYS:HG2	1.81	0.61
1:A:372:LYS:HG3	1:A:373:LYS:HG2	1.82	0.61
1:E:355:SER:HB3	1:E:361:ALA:HA	1.83	0.61
1:F:99:GLU:C	1:F:101:GLY:H	2.03	0.61
1:B:185:ASP:O	1:B:190:PRO:CA	2.49	0.61
1:E:134:LYS:C	1:E:136:PRO:HD3	2.21	0.61
1:B:752:LEU:O	1:B:756:ILE:HG12	2.00	0.61
1:C:403:LEU:HG	1:C:405:LEU:HD12	1.81	0.61
1:D:752:LEU:O	1:D:756:ILE:HG12	1.99	0.61
1:B:759:GLN:HE21	1:B:759:GLN:CA	2.09	0.61
1:D:409:ARG:NE	1:D:413:LEU:HD21	2.16	0.61
1:F:457:THR:OG1	1:F:468:LYS:HG3	1.99	0.61
1:A:66:LEU:HD12	1:A:103:GLU:HA	1.83	0.61
1:B:128:MET:O	1:B:128:MET:CG	2.49	0.61
1:B:83:GLN:O	1:B:85:LEU:N	2.34	0.61
1:F:403:LEU:CD2	1:F:405:LEU:HD11	2.30	0.61
1:A:446:ILE:HG13	1:A:452:GLU:O	2.01	0.61
2:O:5:THR:CG2	2:O:8:GLN:HB2	2.28	0.61
1:D:372:LYS:HG3	1:D:373:LYS:HG2	1.82	0.61
1:F:700:TYR:CE1	1:F:727:GLN:HB3	2.35	0.61
1:D:189:ASP:O	1:D:191:GLU:N	2.33	0.61
2:P:13:LYS:HZ1	2:P:65:PHE:HB3	1.64	0.61
1:D:403:LEU:CD2	1:D:405:LEU:HD11	2.30	0.61
1:F:630:ARG:NE	2:T:83:GLU:HG2	2.16	0.61
1:B:257:LEU:HD12	1:B:261:ALA:HB3	1.83	0.61
1:C:360:VAL:HG21	1:C:365:PRO:HB3	1.80	0.61
1:A:515:LYS:O	1:A:515:LYS:HG2	2.01	0.61
1:A:115:LYS:HB3	1:A:115:LYS:HZ3	1.66	0.60
1:C:187:SER:N	1:C:188:LEU:O	2.34	0.60
1:B:368:GLN:HB3	1:B:380:VAL:HG13	1.83	0.60
1:C:372:LYS:HG3	1:C:373:LYS:HG2	1.82	0.60
1:D:66:LEU:HD12	1:D:103:GLU:HA	1.81	0.60
1:B:187:SER:N	1:B:188:LEU:O	2.34	0.60
1:B:131:ARG:HG3	1:B:243:LEU:CD2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:182:ILE:O	1:D:187:SER:HB2	2.00	0.60
1:C:131:ARG:HG3	1:C:243:LEU:HD21	1.83	0.60
1:F:254:ARG:HB3	1:F:254:ARG:HH11	1.67	0.60
2:O:13:LYS:HZ3	2:O:65:PHE:HB3	1.63	0.60
1:E:405:LEU:HD13	1:E:453:VAL:CG2	2.29	0.60
1:D:377:GLN:O	1:D:378:LEU:HD12	2.00	0.60
1:E:735:VAL:HG12	1:E:741:ILE:HD13	1.82	0.60
1:D:700:TYR:CE1	1:D:727:GLN:HB3	2.36	0.60
1:A:189:ASP:O	1:A:191:GLU:N	2.34	0.60
1:B:107:THR:CG2	1:B:115:LYS:HD2	2.31	0.60
1:C:182:ILE:O	1:C:187:SER:HB2	2.02	0.60
1:F:152:LEU:HD21	1:F:154:ILE:HD11	1.82	0.60
1:C:403:LEU:CD2	1:C:405:LEU:HD11	2.30	0.60
1:C:127:SER:HB3	1:C:133:GLU:OE2	2.01	0.60
1:E:372:LYS:HG3	1:E:373:LYS:HG2	1.81	0.60
1:B:692:GLU:O	1:B:696:LYS:HG3	2.00	0.60
1:F:515:LYS:HB3	1:F:515:LYS:NZ	2.15	0.60
1:B:191:GLU:O	1:B:192:PHE:C	2.40	0.60
1:D:134:LYS:C	1:D:136:PRO:HD3	2.22	0.60
1:C:343:VAL:HG13	1:C:487:PRO:HG2	1.82	0.60
1:F:499:PRO:HG2	1:F:504:ILE:HD11	1.83	0.60
1:A:505:LYS:C	1:A:507:GLN:H	2.03	0.60
1:A:301:ALA:O	1:A:303:LYS:N	2.34	0.60
1:A:700:TYR:CE1	1:A:727:GLN:HB3	2.35	0.60
1:E:655:ASN:N	1:E:655:ASN:HD22	1.98	0.60
1:B:355:SER:HB3	1:B:361:ALA:HA	1.83	0.60
1:B:527:LYS:HD2	2:P:145:MET:O	2.02	0.60
1:B:515:LYS:NZ	1:B:515:LYS:HB3	2.16	0.60
1:B:180:ASP:O	1:B:182:ILE:N	2.34	0.60
1:F:743:PRO:HA	1:F:746:LYS:HB3	1.82	0.60
1:A:752:LEU:O	1:A:756:ILE:HG12	2.00	0.60
2:T:33:GLY:O	2:T:37:ARG:HG3	2.01	0.60
1:F:635:ILE:N	1:F:635:ILE:HD12	2.12	0.60
1:E:409:ARG:NE	1:E:413:LEU:HD21	2.15	0.60
1:C:337:ASN:ND2	1:C:412:GLU:OE2	2.35	0.60
1:B:409:ARG:NE	1:B:413:LEU:HD21	2.15	0.60
1:F:120:LEU:C	1:F:120:LEU:CD1	2.70	0.60
1:A:120:LEU:C	1:A:120:LEU:CD1	2.70	0.60
1:E:368:GLN:HB3	1:E:380:VAL:HG13	1.83	0.60
1:B:354:SER:O	1:B:371:SER:HB2	2.01	0.60
1:D:527:LYS:HD2	2:R:145:MET:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:189:ASP:O	1:B:190:PRO:C	2.36	0.60
1:D:152:LEU:HD21	1:D:154:ILE:HD11	1.82	0.60
1:F:752:LEU:O	1:F:756:ILE:HG12	2.00	0.60
1:C:134:LYS:HG2	1:C:136:PRO:CG	2.31	0.60
1:B:337:ASN:ND2	1:B:412:GLU:OE2	2.34	0.60
1:D:343:VAL:HG13	1:D:487:PRO:HG2	1.82	0.60
1:C:499:PRO:HG2	1:C:504:ILE:HD11	1.84	0.60
1:F:550:SER:H	1:F:553:GLN:HE21	1.49	0.60
1:E:120:LEU:CD1	1:E:120:LEU:C	2.70	0.60
1:A:368:GLN:HB3	1:A:380:VAL:HG13	1.83	0.60
1:C:122:GLU:O	1:C:122:GLU:HG2	2.02	0.60
1:C:735:VAL:HG12	1:C:741:ILE:HD13	1.83	0.60
1:F:692:GLU:O	1:F:696:LYS:HG3	2.01	0.60
1:D:76:LEU:O	1:D:80:GLN:N	2.35	0.60
1:D:180:ASP:O	1:D:182:ILE:N	2.34	0.60
1:F:447:SER:HB3	1:F:450:ASN:O	2.00	0.60
1:F:594:PHE:HE2	1:F:596:ILE:HD11	1.67	0.60
1:F:377:GLN:O	1:F:378:LEU:HD12	2.01	0.60
1:F:122:GLU:O	1:F:122:GLU:HG2	2.02	0.60
1:E:148:GLU:HG3	1:E:149:THR:N	2.16	0.60
1:C:301:ALA:O	1:C:303:LYS:N	2.35	0.60
1:B:175:LYS:CB	1:B:175:LYS:NZ	2.61	0.60
1:A:134:LYS:C	1:A:136:PRO:HD3	2.21	0.60
1:F:134:LYS:C	1:F:136:PRO:HD3	2.22	0.60
1:B:405:LEU:HD13	1:B:453:VAL:CG2	2.29	0.60
1:F:268:MET:O	1:F:271:LEU:HB2	2.02	0.60
1:D:499:PRO:HG2	1:D:504:ILE:HD11	1.84	0.60
1:B:301:ALA:O	1:B:303:LYS:N	2.35	0.60
1:E:700:TYR:CE1	1:E:727:GLN:HB3	2.36	0.60
1:E:122:GLU:HG2	1:E:122:GLU:O	2.02	0.60
1:C:520:PRO:HG2	1:C:521:ASN:H	1.65	0.60
1:D:301:ALA:O	1:D:303:LYS:N	2.34	0.60
1:B:188:LEU:CD2	1:B:188:LEU:N	2.46	0.60
1:A:743:PRO:HA	1:A:746:LYS:HB3	1.83	0.60
1:D:505:LYS:C	1:D:507:GLN:H	2.03	0.60
1:C:594:PHE:HE2	1:C:596:ILE:HD11	1.67	0.60
1:B:499:PRO:HG2	1:B:504:ILE:HD11	1.83	0.60
1:B:120:LEU:C	1:B:120:LEU:CD1	2.70	0.60
1:D:120:LEU:C	1:D:120:LEU:CD1	2.70	0.60
1:C:377:GLN:O	1:C:378:LEU:HD12	2.02	0.60
1:B:515:LYS:O	1:B:515:LYS:HG2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:354:SER:O	1:F:371:SER:HB2	2.01	0.60
1:A:210:PHE:CD1	1:A:214:PHE:HB2	2.36	0.60
1:E:116:GLU:O	1:E:117:LEU:HD22	2.02	0.60
1:E:210:PHE:CD1	1:E:214:PHE:HB2	2.36	0.60
1:E:83:GLN:O	1:E:85:LEU:N	2.35	0.60
2:S:33:GLY:O	2:S:37:ARG:HG3	2.02	0.60
1:E:403:LEU:CD2	1:E:405:LEU:HD11	2.32	0.60
1:B:594:PHE:HE2	1:B:596:ILE:HD11	1.66	0.60
1:A:499:PRO:HG2	1:A:504:ILE:HD11	1.84	0.60
1:F:372:LYS:HG3	1:F:373:LYS:HG2	1.82	0.60
1:A:355:SER:HB3	1:A:361:ALA:HA	1.84	0.60
1:B:76:LEU:O	1:B:80:GLN:N	2.35	0.60
1:B:122:GLU:HG2	1:B:122:GLU:O	2.02	0.60
1:C:515:LYS:NZ	1:C:515:LYS:HB3	2.16	0.60
1:A:180:ASP:O	1:A:182:ILE:N	2.35	0.59
1:E:184:LYS:HZ2	1:E:191:GLU:HG3	1.67	0.59
1:A:254:ARG:HB3	1:A:254:ARG:HH11	1.66	0.59
1:B:735:VAL:HG12	1:B:741:ILE:HD13	1.82	0.59
1:C:134:LYS:C	1:C:136:PRO:HD3	2.22	0.59
1:B:156:ILE:HD12	1:B:156:ILE:N	2.17	0.59
1:A:501:LEU:HD11	2:O:108:VAL:HG13	1.82	0.59
1:D:735:VAL:HG12	1:D:741:ILE:HD13	1.83	0.59
1:A:360:VAL:HG21	1:A:365:PRO:HB3	1.82	0.59
1:A:735:VAL:HG12	1:A:741:ILE:HD13	1.83	0.59
1:D:173:ILE:HG13	1:D:242:SER:CB	2.27	0.59
1:D:144:GLU:HG2	1:D:177:ILE:HD11	1.83	0.59
1:C:116:GLU:O	1:C:117:LEU:HD22	2.02	0.59
1:C:185:ASP:O	1:C:190:PRO:HA	2.01	0.59
1:F:185:ASP:O	1:F:190:PRO:HA	2.02	0.59
1:D:83:GLN:O	1:D:85:LEU:N	2.35	0.59
1:F:337:ASN:ND2	1:F:412:GLU:OE2	2.34	0.59
1:D:594:PHE:HE2	1:D:596:ILE:HD11	1.67	0.59
1:C:504:ILE:O	1:C:507:GLN:CB	2.50	0.59
2:P:121:VAL:C	2:P:123:GLN:N	2.55	0.59
1:B:700:TYR:CE1	1:B:727:GLN:HB3	2.37	0.59
1:D:122:GLU:O	1:D:122:GLU:HG2	2.02	0.59
1:D:346:LYS:HG3	1:D:350:VAL:HB	1.84	0.59
1:A:152:LEU:HD21	1:A:154:ILE:HD11	1.83	0.59
1:C:152:LEU:HD21	1:C:154:ILE:HD11	1.84	0.59
1:B:134:LYS:C	1:B:136:PRO:HD3	2.23	0.59
1:B:671:ARG:O	1:B:674:SER:O	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:343:VAL:HG13	1:E:487:PRO:HG2	1.82	0.59
1:E:354:SER:O	1:E:371:SER:HB2	2.02	0.59
1:F:735:VAL:HG12	1:F:741:ILE:HD13	1.83	0.59
1:D:592:GLU:HB3	1:D:604:LEU:HD11	1.82	0.59
1:E:527:LYS:HD2	2:S:145:MET:O	2.02	0.59
1:B:504:ILE:O	1:B:507:GLN:CB	2.51	0.59
1:F:71:PHE:CB	1:F:108:ASP:HB2	2.33	0.59
1:F:368:GLN:HB3	1:F:380:VAL:HG13	1.83	0.59
1:F:355:SER:HB3	1:F:361:ALA:HA	1.85	0.59
1:C:515:LYS:O	1:C:515:LYS:HG2	2.02	0.59
1:D:128:MET:O	1:D:128:MET:HG2	2.01	0.59
1:D:116:GLU:O	1:D:117:LEU:HD22	2.03	0.59
1:D:254:ARG:HB3	1:D:254:ARG:HH11	1.66	0.59
1:A:83:GLN:C	1:A:85:LEU:H	2.06	0.59
1:B:343:VAL:HG13	1:B:487:PRO:HG2	1.84	0.59
1:C:120:LEU:CD1	1:C:120:LEU:C	2.70	0.59
1:C:355:SER:HB3	1:C:361:ALA:HA	1.84	0.59
1:A:218:LEU:C	1:A:220:LEU:H	2.05	0.59
1:B:116:GLU:O	1:B:117:LEU:HD22	2.03	0.59
1:C:197:LYS:HB3	1:C:197:LYS:NZ	2.18	0.59
1:A:594:PHE:CE1	1:A:602:PHE:HB3	2.38	0.59
1:C:76:LEU:O	1:C:80:GLN:N	2.34	0.59
2:P:92:PHE:O	2:P:94:LYS:N	2.33	0.59
1:C:199:LEU:C	1:C:201:ASP:H	2.06	0.59
1:A:671:ARG:O	1:A:674:SER:O	2.21	0.59
1:D:337:ASN:ND2	1:D:412:GLU:OE2	2.35	0.59
1:F:550:SER:H	1:F:553:GLN:NE2	2.00	0.59
1:C:71:PHE:CB	1:C:108:ASP:HB2	2.33	0.59
1:C:368:GLN:HB3	1:C:380:VAL:HG13	1.82	0.59
1:F:515:LYS:O	1:F:515:LYS:HG2	2.02	0.59
1:C:557:LEU:HD11	1:C:575:VAL:HG12	1.85	0.59
1:F:346:LYS:HG3	1:F:350:VAL:HB	1.85	0.59
1:A:175:LYS:CB	1:A:175:LYS:NZ	2.62	0.59
1:B:210:PHE:CD1	1:B:214:PHE:HB2	2.36	0.59
1:E:180:ASP:O	1:E:183:SER:N	2.35	0.59
1:B:134:LYS:O	1:B:135:VAL:HG12	2.02	0.59
1:F:210:PHE:CD1	1:F:214:PHE:HB2	2.36	0.59
1:D:403:LEU:HG	1:D:405:LEU:CD1	2.33	0.59
2:O:121:VAL:C	2:O:123:GLN:N	2.55	0.59
1:A:515:LYS:NZ	1:A:515:LYS:HB3	2.17	0.59
1:C:592:GLU:HB3	1:C:604:LEU:HD11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:76:LEU:O	1:E:80:GLN:N	2.35	0.59
1:A:76:LEU:O	1:A:80:GLN:N	2.36	0.59
1:D:180:ASP:O	1:D:183:SER:N	2.35	0.59
1:D:264:MET:O	1:D:267:TYR:HB3	2.03	0.59
1:C:175:LYS:NZ	1:C:175:LYS:CB	2.62	0.59
1:C:184:LYS:NZ	1:C:191:GLU:HB2	2.17	0.59
1:A:83:GLN:O	1:A:85:LEU:N	2.36	0.59
1:E:337:ASN:ND2	1:E:412:GLU:OE2	2.35	0.59
1:A:550:SER:H	1:A:553:GLN:HE21	1.48	0.59
1:A:78:LYS:HD2	1:A:156:ILE:HD13	1.84	0.59
2:Q:121:VAL:C	2:Q:123:GLN:N	2.56	0.59
1:C:83:GLN:O	1:C:85:LEU:N	2.36	0.59
1:A:122:GLU:O	1:A:122:GLU:HG2	2.02	0.59
1:B:364:ILE:O	1:B:477:MET:HG2	2.03	0.59
1:E:515:LYS:HB3	1:E:515:LYS:NZ	2.17	0.59
1:E:180:ASP:C	1:E:182:ILE:N	2.55	0.59
1:E:264:MET:O	1:E:267:TYR:HB3	2.03	0.59
1:C:115:LYS:HD3	1:C:153:ILE:HD13	1.84	0.59
1:F:161:ILE:CG2	1:F:168:GLU:HB2	2.33	0.59
1:F:403:LEU:HG	1:F:405:LEU:CD1	2.33	0.59
1:B:74:GLU:HB2	1:B:78:LYS:CB	2.33	0.59
1:A:550:SER:H	1:A:553:GLN:NE2	2.01	0.59
1:D:504:ILE:O	1:D:507:GLN:CB	2.51	0.59
1:D:368:GLN:HB3	1:D:380:VAL:HG13	1.83	0.59
1:E:515:LYS:HG2	1:E:515:LYS:O	2.02	0.59
1:B:501:LEU:HD11	2:P:108:VAL:HG13	1.84	0.59
1:A:346:LYS:HG3	1:A:350:VAL:HB	1.85	0.59
1:C:346:LYS:HG3	1:C:350:VAL:HB	1.85	0.59
1:A:248:TYR:O	1:A:248:TYR:CD2	2.56	0.59
1:C:186:LYS:HE3	1:C:234:LEU:HB2	1.84	0.58
1:F:180:ASP:CG	1:F:181:ILE:H	2.05	0.58
1:A:337:ASN:ND2	1:A:412:GLU:OE2	2.34	0.58
1:D:127:SER:HB3	1:D:133:GLU:OE2	2.03	0.58
1:E:759:GLN:CA	1:E:759:GLN:HE21	2.10	0.58
1:B:377:GLN:O	1:B:378:LEU:HD12	2.02	0.58
1:B:197:LYS:NZ	1:B:197:LYS:HB3	2.18	0.58
1:B:131:ARG:HG3	1:B:243:LEU:HD22	1.83	0.58
1:D:210:PHE:CD1	1:D:214:PHE:HB2	2.36	0.58
1:F:130:SER:HB2	1:F:170:TYR:CE2	2.38	0.58
1:A:412:GLU:O	1:A:414:LYS:N	2.37	0.58
1:B:602:PHE:N	1:B:602:PHE:CD2	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:412:GLU:O	1:E:414:LYS:N	2.36	0.58
1:A:598:PRO:HG3	1:A:624:TYR:OH	2.02	0.58
1:E:598:PRO:HG3	1:E:624:TYR:OH	2.03	0.58
1:D:355:SER:HB3	1:D:361:ALA:HA	1.84	0.58
1:F:364:ILE:O	1:F:477:MET:HG2	2.03	0.58
1:E:248:TYR:O	1:E:248:TYR:CD2	2.56	0.58
1:D:199:LEU:HD11	1:D:226:ASP:OD2	2.03	0.58
1:E:184:LYS:NZ	1:E:191:GLU:HB2	2.19	0.58
1:E:185:ASP:O	1:E:190:PRO:CD	2.51	0.58
1:E:197:LYS:HB3	1:E:197:LYS:NZ	2.17	0.58
2:R:5:THR:CG2	2:R:8:GLN:HB2	2.28	0.58
1:B:244:ALA:HB3	1:B:268:MET:HE3	1.84	0.58
1:B:412:GLU:O	1:B:414:LYS:N	2.36	0.58
1:E:594:PHE:HE2	1:E:596:ILE:HD11	1.67	0.58
1:C:550:SER:H	1:C:553:GLN:HE21	1.51	0.58
1:D:550:SER:H	1:D:553:GLN:HE21	1.50	0.58
1:B:788:ASP:O	1:B:792:VAL:HG23	2.03	0.58
1:A:173:ILE:HG13	1:A:242:SER:CB	2.29	0.58
1:B:192:PHE:O	1:B:196:ILE:HG13	2.03	0.58
1:D:184:LYS:HZ1	1:D:191:GLU:HB2	1.66	0.58
1:D:318:ILE:CG2	1:D:322:LEU:HD12	2.32	0.58
1:F:318:ILE:CG2	1:F:322:LEU:HD12	2.32	0.58
1:D:71:PHE:CB	1:D:108:ASP:HB2	2.33	0.58
1:F:217:LYS:NZ	1:F:217:LYS:HB3	2.19	0.58
1:C:83:GLN:C	1:C:85:LEU:H	2.07	0.58
1:D:515:LYS:O	1:D:515:LYS:HG2	2.02	0.58
1:B:83:GLN:C	1:B:85:LEU:H	2.06	0.58
1:E:670:ILE:HG21	1:E:744:GLU:HB2	1.85	0.58
1:D:630:ARG:NE	2:R:83:GLU:HG2	2.18	0.58
1:D:788:ASP:O	1:D:792:VAL:HG23	2.04	0.58
1:D:515:LYS:NZ	1:D:515:LYS:HB3	2.17	0.58
1:B:346:LYS:HG3	1:B:350:VAL:HB	1.85	0.58
2:S:92:PHE:O	2:S:94:LYS:N	2.33	0.58
1:A:186:LYS:HE3	1:A:234:LEU:HB2	1.86	0.58
1:A:264:MET:O	1:A:267:TYR:HB3	2.03	0.58
1:B:264:MET:O	1:B:267:TYR:HB3	2.04	0.58
1:F:83:GLN:O	1:F:85:LEU:N	2.37	0.58
1:F:115:LYS:HB3	1:F:115:LYS:HZ3	1.67	0.58
1:A:164:GLU:O	1:A:167:LYS:HE3	2.03	0.58
1:C:670:ILE:HG21	1:C:744:GLU:HB2	1.85	0.58
1:A:670:ILE:HG21	1:A:744:GLU:HB2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:670:ILE:HG21	1:D:744:GLU:HB2	1.86	0.58
1:D:405:LEU:HD13	1:D:453:VAL:CG2	2.29	0.58
1:B:403:LEU:HG	1:B:405:LEU:CD1	2.34	0.58
1:E:364:ILE:O	1:E:477:MET:HG2	2.04	0.58
1:F:76:LEU:O	1:F:80:GLN:N	2.35	0.58
1:C:639:ASN:HD22	1:C:639:ASN:C	2.07	0.58
1:C:164:GLU:O	1:C:167:LYS:HE3	2.04	0.58
1:C:210:PHE:CD1	1:C:214:PHE:HB2	2.35	0.58
1:C:199:LEU:HD11	1:C:226:ASP:OD2	2.04	0.58
1:F:197:LYS:NZ	1:F:197:LYS:HB3	2.19	0.58
1:E:254:ARG:HH11	1:E:254:ARG:HB3	1.69	0.58
1:D:412:GLU:O	1:D:414:LYS:N	2.36	0.58
1:B:71:PHE:CB	1:B:108:ASP:HB2	2.33	0.58
1:E:499:PRO:HG2	1:E:504:ILE:HD11	1.85	0.58
2:R:121:VAL:C	2:R:123:GLN:N	2.56	0.58
1:A:116:GLU:O	1:A:117:LEU:HD22	2.04	0.58
1:A:184:LYS:HZ1	1:A:191:GLU:HB2	1.69	0.58
1:B:128:MET:CE	1:B:239:HIS:NE2	2.67	0.58
1:E:199:LEU:HD11	1:E:226:ASP:OD2	2.04	0.58
1:E:218:LEU:C	1:E:220:LEU:H	2.07	0.58
1:F:180:ASP:C	1:F:182:ILE:N	2.57	0.58
1:B:670:ILE:HG21	1:B:744:GLU:HB2	1.86	0.58
1:A:403:LEU:CD2	1:A:405:LEU:HD11	2.31	0.58
1:D:268:MET:O	1:D:271:LEU:HB2	2.04	0.58
1:B:403:LEU:CD2	1:B:405:LEU:HD11	2.30	0.58
1:B:594:PHE:CE1	1:B:602:PHE:HB3	2.39	0.58
1:C:244:ALA:HB3	1:C:268:MET:HE3	1.85	0.58
1:A:504:ILE:O	1:A:507:GLN:CB	2.52	0.58
1:F:788:ASP:O	1:F:792:VAL:HG23	2.03	0.58
1:B:186:LYS:HE3	1:B:234:LEU:HB2	1.86	0.58
1:C:197:LYS:HB3	1:C:197:LYS:HZ2	1.68	0.58
1:B:127:SER:HB3	1:B:133:GLU:OE2	2.04	0.58
1:F:116:GLU:O	1:F:117:LEU:HD22	2.03	0.58
1:F:670:ILE:HG21	1:F:744:GLU:HB2	1.86	0.58
1:E:403:LEU:HG	1:E:405:LEU:CD1	2.34	0.58
1:D:602:PHE:N	1:D:602:PHE:CD2	2.72	0.58
1:A:71:PHE:CB	1:A:108:ASP:HB2	2.33	0.58
1:F:655:ASN:N	1:F:655:ASN:ND2	2.51	0.58
1:A:592:GLU:HB3	1:A:604:LEU:HD11	1.84	0.58
1:C:83:GLN:C	1:C:85:LEU:N	2.57	0.58
1:A:364:ILE:O	1:A:477:MET:HG2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:225:ILE:HG12	1:B:229:PHE:HE2	1.69	0.58
1:A:403:LEU:HG	1:A:405:LEU:CD1	2.34	0.58
1:A:275:GLY:O	1:A:278:LYS:HB2	2.04	0.58
1:D:594:PHE:CE1	1:D:602:PHE:HB3	2.38	0.58
1:C:318:ILE:CG2	1:C:322:LEU:HD12	2.34	0.58
1:E:504:ILE:O	1:E:507:GLN:CB	2.51	0.58
1:C:788:ASP:O	1:C:792:VAL:HG23	2.04	0.58
1:C:693:SER:O	1:C:696:LYS:HB2	2.04	0.58
1:E:346:LYS:HG3	1:E:350:VAL:HB	1.85	0.58
1:D:248:TYR:O	1:D:248:TYR:HD2	1.87	0.58
1:B:128:MET:HE3	1:B:239:HIS:NE2	2.19	0.57
1:D:197:LYS:NZ	1:D:197:LYS:HB3	2.18	0.57
1:D:196:ILE:HA	1:D:199:LEU:HD12	1.86	0.57
1:D:134:LYS:CG	1:D:136:PRO:HD3	2.27	0.57
1:C:403:LEU:HG	1:C:405:LEU:CD1	2.34	0.57
1:A:405:LEU:HD13	1:A:453:VAL:CG2	2.29	0.57
1:D:671:ARG:O	1:D:674:SER:O	2.22	0.57
2:Q:36:MET:HE3	2:Q:43:PRO:HG3	1.84	0.57
1:F:592:GLU:HB3	1:F:604:LEU:HD11	1.85	0.57
1:D:248:TYR:O	1:D:248:TYR:CD2	2.57	0.57
1:A:199:LEU:HD11	1:A:226:ASP:OD2	2.04	0.57
1:D:186:LYS:HE3	1:D:234:LEU:HB2	1.85	0.57
1:C:217:LYS:HB3	1:C:217:LYS:NZ	2.19	0.57
1:F:164:GLU:O	1:F:167:LYS:HE3	2.04	0.57
1:E:244:ALA:HB3	1:E:268:MET:HE3	1.85	0.57
1:C:464:VAL:CG2	1:C:465:LEU:HD12	2.33	0.57
1:E:594:PHE:CE1	1:E:602:PHE:HB3	2.39	0.57
1:A:156:ILE:N	1:A:156:ILE:HD12	2.19	0.57
1:A:318:ILE:CG2	1:A:322:LEU:HD12	2.33	0.57
1:E:550:SER:H	1:E:553:GLN:HE21	1.50	0.57
1:C:557:LEU:HD11	1:C:575:VAL:CG1	2.34	0.57
1:C:548:THR:N	5:C:903:CMP:N6	2.38	0.57
1:F:192:PHE:HA	1:F:195:LEU:HB3	1.86	0.57
1:B:164:GLU:O	1:B:167:LYS:HE3	2.05	0.57
1:F:661:ALA:O	1:F:665:LYS:HD3	2.05	0.57
1:D:244:ALA:HB3	1:D:268:MET:HE3	1.87	0.57
1:B:244:ALA:CB	1:B:268:MET:HE3	2.34	0.57
1:C:412:GLU:O	1:C:414:LYS:N	2.37	0.57
1:E:156:ILE:N	1:E:156:ILE:HD12	2.19	0.57
1:D:156:ILE:HD12	1:D:156:ILE:N	2.19	0.57
1:A:788:ASP:O	1:A:792:VAL:HG23	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:248:TYR:O	1:A:248:TYR:HD2	1.87	0.57
1:C:364:ILE:O	1:C:477:MET:HG2	2.04	0.57
1:A:192:PHE:O	1:A:196:ILE:HG13	2.04	0.57
1:E:186:LYS:HB2	1:E:190:PRO:CD	2.34	0.57
1:F:196:ILE:HA	1:F:199:LEU:HD12	1.87	0.57
1:D:83:GLN:C	1:D:85:LEU:H	2.07	0.57
1:A:83:GLN:C	1:A:85:LEU:N	2.57	0.57
1:F:343:VAL:HG13	1:F:487:PRO:HG2	1.86	0.57
1:B:268:MET:O	1:B:271:LEU:HB2	2.04	0.57
1:E:602:PHE:CD2	1:E:602:PHE:N	2.71	0.57
1:D:443:GLU:HG3	1:D:458:LYS:HG2	1.86	0.57
1:C:655:ASN:N	1:C:655:ASN:ND2	2.52	0.57
1:B:254:ARG:HB3	1:B:254:ARG:HH11	1.68	0.57
1:A:268:MET:O	1:A:271:LEU:HB2	2.04	0.57
1:E:268:MET:O	1:E:271:LEU:HB2	2.04	0.57
1:E:275:GLY:O	1:E:278:LYS:HB2	2.03	0.57
1:C:338:LEU:O	1:C:343:VAL:HG23	2.05	0.57
1:D:598:PRO:HG3	1:D:624:TYR:OH	2.03	0.57
1:C:630:ARG:NE	2:Q:83:GLU:HG2	2.18	0.57
1:F:504:ILE:O	1:F:507:GLN:CB	2.52	0.57
1:E:550:SER:H	1:E:553:GLN:NE2	2.03	0.57
1:F:508:ILE:HG12	1:F:536:TYR:CD2	2.40	0.57
1:F:248:TYR:O	1:F:248:TYR:CD2	2.57	0.57
1:A:180:ASP:O	1:A:183:SER:N	2.36	0.57
1:B:192:PHE:HA	1:B:195:LEU:HB3	1.86	0.57
1:B:217:LYS:HB3	1:B:217:LYS:NZ	2.19	0.57
1:D:115:LYS:HD3	1:D:153:ILE:HD13	1.86	0.57
1:D:218:LEU:C	1:D:220:LEU:H	2.05	0.57
1:C:173:ILE:HG13	1:C:242:SER:CB	2.27	0.57
1:C:264:MET:O	1:C:267:TYR:HB3	2.05	0.57
1:F:180:ASP:O	1:F:183:SER:N	2.38	0.57
1:A:244:ALA:HB3	1:A:268:MET:HE3	1.86	0.57
1:D:275:GLY:O	1:D:278:LYS:HB2	2.04	0.57
1:B:78:LYS:HD2	1:B:156:ILE:HD13	1.85	0.57
1:F:598:PRO:HG3	1:F:624:TYR:OH	2.04	0.57
2:T:121:VAL:C	2:T:123:GLN:N	2.56	0.57
1:C:527:LYS:HD2	2:Q:145:MET:O	2.04	0.57
1:A:196:ILE:HA	1:A:199:LEU:HD12	1.87	0.57
1:B:180:ASP:O	1:B:183:SER:N	2.36	0.57
1:F:83:GLN:C	1:F:85:LEU:H	2.08	0.57
1:F:115:LYS:HD3	1:F:153:ILE:HD13	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:164:GLU:O	1:E:167:LYS:HE3	2.05	0.57
1:A:275:GLY:HA2	1:A:278:LYS:CG	2.32	0.57
1:B:632:TYR:O	1:B:633:ASN:HB2	2.05	0.57
1:D:338:LEU:O	1:D:343:VAL:HG23	2.05	0.57
1:F:594:PHE:CE1	1:F:602:PHE:HB3	2.40	0.57
1:B:598:PRO:HG3	1:B:624:TYR:OH	2.04	0.57
1:E:550:SER:HB3	1:E:553:GLN:HB2	1.87	0.57
1:C:156:ILE:HD12	1:C:156:ILE:N	2.19	0.57
1:D:128:MET:CG	1:D:128:MET:O	2.49	0.57
1:F:527:LYS:HD2	2:T:145:MET:O	2.03	0.57
2:P:84:GLU:OE2	2:P:84:GLU:N	2.38	0.57
1:B:639:ASN:HD22	1:B:639:ASN:C	2.08	0.57
1:A:225:ILE:HG12	1:A:229:PHE:HE2	1.69	0.57
1:B:148:GLU:HG3	1:B:149:THR:N	2.18	0.57
1:B:217:LYS:HZ2	1:B:217:LYS:HB3	1.68	0.57
1:F:264:MET:O	1:F:267:TYR:HB3	2.04	0.57
1:A:338:LEU:O	1:A:343:VAL:HG23	2.05	0.57
1:C:268:MET:O	1:C:271:LEU:HB2	2.04	0.57
1:B:550:SER:H	1:B:553:GLN:NE2	2.03	0.57
2:S:121:VAL:C	2:S:123:GLN:N	2.56	0.57
1:B:368:GLN:CB	1:B:380:VAL:HG13	2.35	0.57
1:E:788:ASP:O	1:E:792:VAL:HG23	2.04	0.57
1:E:368:GLN:CB	1:E:380:VAL:HG13	2.35	0.57
1:E:639:ASN:HD22	1:E:639:ASN:C	2.07	0.57
1:C:248:TYR:O	1:C:248:TYR:CD2	2.57	0.57
1:A:184:LYS:NZ	1:A:191:GLU:HB2	2.20	0.57
1:B:173:ILE:HG13	1:B:242:SER:CB	2.28	0.57
1:C:107:THR:CG2	1:C:115:LYS:HD2	2.35	0.57
1:F:144:GLU:HG2	1:F:177:ILE:HD11	1.87	0.57
1:A:161:ILE:CG2	1:A:168:GLU:HB2	2.34	0.57
1:E:83:GLN:C	1:E:85:LEU:H	2.07	0.57
1:B:275:GLY:O	1:B:278:LYS:HB2	2.05	0.57
1:D:776:LEU:O	1:D:780:LEU:CD2	2.53	0.57
1:D:123:GLU:HG2	1:D:124:GLU:H	1.70	0.57
1:B:122:GLU:HG3	1:B:147:ARG:HB2	1.87	0.57
1:B:248:TYR:CD2	1:B:248:TYR:O	2.58	0.57
1:D:217:LYS:HB3	1:D:217:LYS:NZ	2.20	0.57
1:E:196:ILE:HA	1:E:199:LEU:HD12	1.87	0.57
1:C:196:ILE:HA	1:C:199:LEU:HD12	1.87	0.57
1:F:83:GLN:C	1:F:85:LEU:N	2.57	0.57
1:F:191:GLU:C	1:F:193:LEU:N	2.59	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:83:GLN:C	1:D:85:LEU:N	2.57	0.57
1:F:412:GLU:O	1:F:414:LYS:N	2.37	0.57
1:F:275:GLY:O	1:F:278:LYS:HB2	2.04	0.57
1:E:71:PHE:CB	1:E:108:ASP:HB2	2.33	0.57
1:C:594:PHE:CE1	1:C:602:PHE:HB3	2.39	0.57
1:A:443:GLU:HG3	1:A:458:LYS:HG2	1.87	0.57
1:D:655:ASN:N	1:D:655:ASN:ND2	2.52	0.57
1:D:122:GLU:HG3	1:D:147:ARG:HB2	1.87	0.57
1:A:122:GLU:HG3	1:A:147:ARG:HB2	1.87	0.57
1:E:284:LYS:HA	1:E:284:LYS:HE3	1.87	0.57
2:R:84:GLU:N	2:R:84:GLU:OE2	2.38	0.57
1:B:184:LYS:HZ1	1:B:191:GLU:HB2	1.70	0.56
1:F:199:LEU:HD11	1:F:226:ASP:OD2	2.04	0.56
1:B:252:ASP:CG	1:B:253:HIS:H	2.09	0.56
1:C:275:GLY:O	1:C:278:LYS:HB2	2.05	0.56
1:E:78:LYS:HD2	1:E:156:ILE:HD13	1.86	0.56
1:C:78:LYS:HD2	1:C:156:ILE:HD13	1.86	0.56
1:C:776:LEU:O	1:C:780:LEU:CD2	2.53	0.56
1:D:124:GLU:OE2	1:D:129:ASN:ND2	2.38	0.56
1:C:368:GLN:CB	1:C:380:VAL:HG13	2.34	0.56
1:F:284:LYS:HA	1:F:284:LYS:HE3	1.87	0.56
1:A:197:LYS:NZ	1:A:197:LYS:HB3	2.19	0.56
1:C:180:ASP:O	1:C:183:SER:N	2.36	0.56
1:C:252:ASP:CG	1:C:253:HIS:H	2.09	0.56
1:F:192:PHE:O	1:F:196:ILE:HG13	2.05	0.56
1:E:161:ILE:HG23	1:E:168:GLU:HB2	1.86	0.56
1:B:83:GLN:C	1:B:85:LEU:N	2.56	0.56
2:O:13:LYS:HZ1	2:O:65:PHE:CB	2.18	0.56
1:C:598:PRO:HG3	1:C:624:TYR:OH	2.05	0.56
1:F:78:LYS:HD2	1:F:156:ILE:HD13	1.86	0.56
1:F:79:ILE:C	1:F:81:GLN:H	2.09	0.56
1:F:368:GLN:HG3	1:F:383:GLY:C	2.25	0.56
1:D:364:ILE:O	1:D:477:MET:HG2	2.05	0.56
1:F:557:LEU:HD11	1:F:575:VAL:HG12	1.87	0.56
1:C:284:LYS:HA	1:C:284:LYS:HE3	1.87	0.56
1:B:154:ILE:HG13	1:B:171:TYR:CD1	2.41	0.56
1:B:180:ASP:C	1:B:182:ILE:N	2.58	0.56
1:E:192:PHE:HA	1:E:195:LEU:HB3	1.87	0.56
1:E:217:LYS:HB3	1:E:217:LYS:NZ	2.20	0.56
1:F:131:ARG:HG3	1:F:243:LEU:HD21	1.87	0.56
1:F:668:SER:CA	2:T:14:GLU:HG3	2.29	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:25:GLY:HA3	2:Q:65:PHE:CE1	2.41	0.56
1:E:661:ALA:O	1:E:665:LYS:HD3	2.05	0.56
2:T:11:GLU:O	2:T:13:LYS:N	2.38	0.56
1:E:338:LEU:O	1:E:343:VAL:HG23	2.05	0.56
1:C:550:SER:H	1:C:553:GLN:NE2	2.02	0.56
1:B:318:ILE:CG2	1:B:322:LEU:HD12	2.33	0.56
1:A:776:LEU:O	1:A:780:LEU:CD2	2.53	0.56
1:E:376:GLN:C	1:E:378:LEU:H	2.08	0.56
1:E:508:ILE:HG12	1:E:536:TYR:CD2	2.40	0.56
1:B:655:ASN:ND2	1:B:655:ASN:N	2.53	0.56
1:D:76:LEU:H	1:D:76:LEU:CD2	2.19	0.56
1:A:326:ILE:HG22	1:A:328:PHE:CE1	2.40	0.56
1:D:180:ASP:CG	1:D:181:ILE:H	2.09	0.56
1:F:134:LYS:CG	1:F:136:PRO:HD3	2.27	0.56
1:D:661:ALA:O	1:D:665:LYS:HD3	2.04	0.56
1:D:550:SER:H	1:D:553:GLN:NE2	2.02	0.56
1:E:122:GLU:HG3	1:E:147:ARG:HB2	1.87	0.56
1:B:738:SER:OG	1:B:739:LYS:N	2.38	0.56
1:A:217:LYS:HB3	1:A:217:LYS:NZ	2.19	0.56
1:B:196:ILE:HA	1:B:199:LEU:HD12	1.87	0.56
1:C:144:GLU:HG2	1:C:177:ILE:HD11	1.88	0.56
1:F:175:LYS:O	1:F:177:ILE:N	2.38	0.56
1:F:175:LYS:O	1:F:178:SER:N	2.38	0.56
1:E:252:ASP:O	1:E:254:ARG:HD2	2.05	0.56
2:R:25:GLY:HA3	2:R:65:PHE:CE1	2.41	0.56
1:F:759:GLN:HE21	1:F:759:GLN:CA	2.10	0.56
1:B:338:LEU:O	1:B:343:VAL:HG23	2.06	0.56
1:F:602:PHE:CD2	1:F:602:PHE:N	2.71	0.56
1:F:244:ALA:HB3	1:F:268:MET:HE3	1.87	0.56
1:A:334:LEU:H	1:A:334:LEU:HD12	1.70	0.56
1:D:284:LYS:HE3	1:D:284:LYS:HA	1.87	0.56
1:C:122:GLU:HG3	1:C:147:ARG:HB2	1.87	0.56
1:D:738:SER:OG	1:D:739:LYS:N	2.38	0.56
1:D:639:ASN:HD22	1:D:639:ASN:C	2.09	0.56
1:B:199:LEU:HD11	1:B:226:ASP:OD2	2.04	0.56
1:E:217:LYS:HB3	1:E:217:LYS:HZ2	1.70	0.56
1:E:225:ILE:HG12	1:E:229:PHE:HE2	1.71	0.56
1:E:186:LYS:HE3	1:E:234:LEU:HB2	1.87	0.56
1:F:172:GLU:O	1:F:175:LYS:HB3	2.06	0.56
1:A:333:LYS:HA	1:A:336:THR:OG1	2.06	0.56
1:D:275:GLY:HA2	1:D:278:LYS:CG	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:79:ILE:C	1:E:81:GLN:H	2.09	0.56
1:B:550:SER:H	1:B:553:GLN:HE21	1.51	0.56
1:D:368:GLN:HG3	1:D:383:GLY:C	2.25	0.56
1:F:368:GLN:CB	1:F:380:VAL:HG13	2.35	0.56
1:F:557:LEU:HD11	1:F:575:VAL:CG1	2.36	0.56
1:D:470:ASN:O	1:D:472:ARG:HG3	2.06	0.56
1:B:284:LYS:HE3	1:B:284:LYS:HA	1.87	0.56
2:T:76:MET:HG3	2:T:76:MET:O	2.06	0.56
1:A:192:PHE:HA	1:A:195:LEU:HB3	1.87	0.56
1:D:192:PHE:O	1:D:196:ILE:HG13	2.05	0.56
1:C:184:LYS:HD2	1:C:188:LEU:HG	1.88	0.56
1:B:161:ILE:HG23	1:B:168:GLU:HB2	1.87	0.56
2:S:25:GLY:HA3	2:S:65:PHE:CE1	2.41	0.56
1:C:279:ILE:O	1:C:283:LEU:HD13	2.06	0.56
1:D:632:TYR:O	1:D:633:ASN:HB2	2.06	0.56
1:B:376:GLN:C	1:B:378:LEU:H	2.09	0.56
1:A:368:GLN:CB	1:A:380:VAL:HG13	2.34	0.56
2:S:76:MET:O	2:S:76:MET:HG3	2.06	0.56
1:A:128:MET:HG3	1:A:128:MET:O	2.05	0.56
1:B:115:LYS:HD3	1:B:153:ILE:HD13	1.87	0.56
1:C:130:SER:HB2	1:C:170:TYR:CE2	2.40	0.56
1:C:180:ASP:CG	1:C:181:ILE:H	2.08	0.56
1:B:275:GLY:HA2	1:B:278:LYS:CG	2.33	0.56
1:F:628:PHE:CD1	1:F:645:TRP:CD1	2.93	0.56
1:B:550:SER:HB3	1:B:553:GLN:HB2	1.88	0.56
1:F:156:ILE:HD12	1:F:156:ILE:N	2.20	0.56
1:F:122:GLU:HG3	1:F:147:ARG:HB2	1.87	0.56
1:F:639:ASN:HD22	1:F:639:ASN:C	2.08	0.56
1:C:709:ASN:HB2	2:Q:130:ILE:HG23	1.87	0.56
1:E:115:LYS:HD3	1:E:153:ILE:HD13	1.87	0.56
1:E:252:ASP:CG	1:E:253:HIS:H	2.09	0.56
1:C:405:LEU:CD1	1:C:453:VAL:HG21	2.32	0.56
1:F:447:SER:OG	1:F:448:ASP:N	2.39	0.56
1:A:447:SER:OG	1:A:448:ASP:N	2.37	0.56
1:D:409:ARG:O	1:D:413:LEU:HG	2.06	0.56
1:D:78:LYS:HD2	1:D:156:ILE:HD13	1.87	0.56
1:B:443:GLU:HG3	1:B:458:LYS:HG2	1.87	0.56
1:D:557:LEU:HD11	1:D:575:VAL:CG1	2.36	0.56
1:B:709:ASN:HB2	2:P:130:ILE:HG23	1.87	0.56
2:O:84:GLU:N	2:O:84:GLU:OE2	2.39	0.56
1:B:218:LEU:C	1:B:220:LEU:H	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:136:PRO:O	1:B:137:PHE:C	2.45	0.56
1:F:184:LYS:HD2	1:F:188:LEU:HG	1.88	0.56
1:E:165:GLN:C	1:E:167:LYS:H	2.09	0.56
1:D:333:LYS:HA	1:D:336:THR:OG1	2.06	0.56
1:D:244:ALA:CB	1:D:268:MET:HE3	2.36	0.56
1:C:443:GLU:HG3	1:C:458:LYS:HG2	1.87	0.56
1:C:368:GLN:HG3	1:C:383:GLY:C	2.26	0.56
1:A:368:GLN:HG3	1:A:383:GLY:C	2.26	0.56
1:B:508:ILE:HG12	1:B:536:TYR:CD2	2.41	0.56
1:F:128:MET:CG	1:F:128:MET:O	2.50	0.56
1:C:96:ILE:O	1:C:100:LEU:HG	2.06	0.55
1:D:164:GLU:O	1:D:167:LYS:HE3	2.05	0.55
1:E:671:ARG:O	1:E:674:SER:O	2.24	0.55
2:P:16:PHE:HA	2:P:35:VAL:CG1	2.37	0.55
1:C:333:LYS:HA	1:C:336:THR:OG1	2.06	0.55
2:S:16:PHE:HA	2:S:35:VAL:CG1	2.37	0.55
1:A:244:ALA:CB	1:A:268:MET:HE3	2.37	0.55
1:E:628:PHE:CD1	1:E:645:TRP:CD1	2.94	0.55
1:C:550:SER:HB3	1:C:553:GLN:HB2	1.89	0.55
1:F:550:SER:HB3	1:F:553:GLN:HB2	1.88	0.55
1:D:368:GLN:CB	1:D:380:VAL:HG13	2.35	0.55
1:F:334:LEU:HD12	1:F:334:LEU:H	1.70	0.55
1:D:301:ALA:C	1:D:303:LYS:N	2.60	0.55
1:A:184:LYS:HZ2	1:A:191:GLU:HG3	1.72	0.55
1:A:217:LYS:HB3	1:A:217:LYS:HZ2	1.70	0.55
1:D:130:SER:HB2	1:D:170:TYR:CE2	2.41	0.55
1:E:192:PHE:O	1:E:196:ILE:HG13	2.06	0.55
1:C:184:LYS:HZ1	1:C:191:GLU:HB2	1.71	0.55
1:C:234:LEU:O	1:C:238:GLN:HG3	2.06	0.55
1:F:165:GLN:OE1	1:F:252:ASP:HB3	2.06	0.55
1:F:184:LYS:HZ1	1:F:191:GLU:HB2	1.72	0.55
1:A:722:ILE:HD13	1:A:764:LEU:CD2	2.37	0.55
2:Q:65:PHE:CB	2:Q:66:PRO:HD3	2.33	0.55
1:A:550:SER:HB3	1:A:553:GLN:CB	2.37	0.55
1:B:628:PHE:CD1	1:B:645:TRP:CD1	2.94	0.55
1:A:376:GLN:C	1:A:378:LEU:H	2.09	0.55
1:B:301:ALA:C	1:B:303:LYS:N	2.60	0.55
1:F:699:GLY:O	1:F:702:SER:N	2.40	0.55
1:D:172:GLU:O	1:D:175:LYS:HB3	2.07	0.55
1:E:115:LYS:HB3	1:E:115:LYS:HZ3	1.71	0.55
1:C:172:GLU:O	1:C:175:LYS:HB3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:175:LYS:O	1:C:177:ILE:N	2.40	0.55
1:F:136:PRO:O	1:F:137:PHE:C	2.45	0.55
1:F:409:ARG:O	1:F:413:LEU:HG	2.06	0.55
1:C:244:ALA:CB	1:C:268:MET:HE3	2.36	0.55
1:E:464:VAL:CG2	1:E:465:LEU:HD12	2.33	0.55
1:D:323:ASN:C	1:D:323:ASN:HD22	2.10	0.55
1:D:497:LEU:CD1	1:D:556:MET:HG2	2.36	0.55
1:E:550:SER:HB3	1:E:553:GLN:CB	2.36	0.55
1:E:368:GLN:HG3	1:E:383:GLY:C	2.26	0.55
1:F:654:ILE:C	1:F:655:ASN:HD22	2.09	0.55
1:F:248:TYR:C	1:F:248:TYR:CD2	2.80	0.55
1:C:248:TYR:C	1:C:248:TYR:CD2	2.80	0.55
1:B:248:TYR:O	1:B:248:TYR:HD2	1.89	0.55
1:A:188:LEU:CD2	1:A:188:LEU:N	2.46	0.55
1:E:671:ARG:HH12	1:E:677:GLY:HA3	1.72	0.55
2:O:16:PHE:HA	2:O:35:VAL:CG1	2.37	0.55
1:F:432:TYR:HE1	1:F:445:ARG:CZ	2.19	0.55
2:R:63:ILE:HG13	2:R:67:GLU:HB3	1.89	0.55
1:B:79:ILE:C	1:B:81:GLN:H	2.09	0.55
1:A:632:TYR:O	1:A:633:ASN:HB2	2.07	0.55
1:F:334:LEU:HD12	1:F:334:LEU:N	2.21	0.55
1:F:301:ALA:C	1:F:303:LYS:N	2.59	0.55
1:E:248:TYR:HD2	1:E:248:TYR:O	1.88	0.55
1:B:500:SER:HG	1:B:502:THR:HG1	1.53	0.55
1:A:107:THR:CG2	1:A:115:LYS:HD2	2.33	0.55
1:D:192:PHE:HA	1:D:195:LEU:HB3	1.87	0.55
1:F:252:ASP:O	1:F:254:ARG:HD2	2.06	0.55
1:F:173:ILE:HG13	1:F:242:SER:CB	2.27	0.55
1:D:136:PRO:O	1:D:137:PHE:C	2.45	0.55
1:F:338:LEU:O	1:F:343:VAL:HG23	2.06	0.55
1:E:318:ILE:CG2	1:E:322:LEU:HD12	2.32	0.55
1:F:71:PHE:CD1	1:F:73:ASN:HB2	2.42	0.55
1:B:776:LEU:O	1:B:780:LEU:CD2	2.54	0.55
1:C:376:GLN:C	1:C:378:LEU:H	2.08	0.55
1:F:376:GLN:C	1:F:378:LEU:H	2.09	0.55
1:E:443:GLU:HG3	1:E:458:LYS:HG2	1.87	0.55
1:C:654:ILE:C	1:C:655:ASN:HD22	2.10	0.55
1:D:557:LEU:HD11	1:D:575:VAL:HG12	1.88	0.55
1:A:709:ASN:HB2	2:O:130:ILE:HG23	1.88	0.55
1:A:470:ASN:O	1:A:472:ARG:HG3	2.06	0.55
1:E:179:LEU:HA	1:E:182:ILE:HG22	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:83:GLN:C	1:E:85:LEU:N	2.57	0.55
2:P:63:ILE:HG13	2:P:67:GLU:HB3	1.89	0.55
1:A:279:ILE:O	1:A:283:LEU:HD13	2.07	0.55
1:D:464:VAL:CG2	1:D:465:LEU:HD12	2.33	0.55
1:A:602:PHE:N	1:A:602:PHE:CD2	2.72	0.55
1:C:602:PHE:N	1:C:602:PHE:CD2	2.71	0.55
1:F:443:GLU:HG3	1:F:458:LYS:HG2	1.88	0.55
1:C:508:ILE:HG12	1:C:536:TYR:CD2	2.41	0.55
1:D:96:ILE:O	1:D:100:LEU:HG	2.07	0.55
1:C:738:SER:OG	1:C:739:LYS:N	2.38	0.55
1:E:481:VAL:O	1:E:484:VAL:HG23	2.06	0.55
1:A:128:MET:HE2	1:A:239:HIS:NE2	2.22	0.55
1:B:165:GLN:C	1:B:167:LYS:H	2.09	0.55
1:A:432:TYR:HE1	1:A:445:ARG:CZ	2.20	0.55
1:F:776:LEU:O	1:F:780:LEU:CD2	2.53	0.55
1:A:248:TYR:C	1:A:248:TYR:CD2	2.80	0.55
1:E:248:TYR:C	1:E:248:TYR:CD2	2.80	0.55
1:B:172:GLU:O	1:B:175:LYS:HB3	2.06	0.55
1:C:165:GLN:C	1:C:167:LYS:H	2.10	0.55
1:F:186:LYS:HE3	1:F:234:LEU:HB2	1.88	0.55
1:A:136:PRO:O	1:A:137:PHE:C	2.45	0.55
1:A:671:ARG:HH12	1:A:677:GLY:HA3	1.71	0.55
2:P:25:GLY:HA3	2:P:65:PHE:CE1	2.42	0.55
1:F:333:LYS:HA	1:F:336:THR:OG1	2.06	0.55
1:F:432:TYR:CE1	1:F:445:ARG:CZ	2.90	0.55
2:T:25:GLY:HA3	2:T:65:PHE:CE1	2.42	0.55
1:C:628:PHE:CE2	2:Q:90:ARG:HD3	2.33	0.55
1:A:628:PHE:CD1	1:A:645:TRP:CD1	2.94	0.55
1:C:79:ILE:C	1:C:81:GLN:H	2.10	0.55
1:A:284:LYS:HE3	1:A:284:LYS:HA	1.87	0.55
1:B:97:TYR:CD2	1:B:102:GLY:HA3	2.42	0.55
1:E:189:ASP:O	1:E:191:GLU:HG2	2.07	0.55
1:B:697:ILE:HG21	1:B:732:ILE:HD11	1.89	0.55
2:O:25:GLY:HA3	2:O:65:PHE:CE1	2.42	0.55
1:C:136:PRO:O	1:C:137:PHE:C	2.45	0.55
1:B:550:SER:HB3	1:B:553:GLN:CB	2.37	0.55
1:E:432:TYR:CE1	1:E:445:ARG:CZ	2.90	0.55
1:A:609:GLU:OE2	1:A:609:GLU:N	2.34	0.55
1:B:334:LEU:H	1:B:334:LEU:HD12	1.70	0.55
1:B:334:LEU:N	1:B:334:LEU:HD12	2.22	0.55
1:A:334:LEU:N	1:A:334:LEU:HD12	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:508:ILE:HG12	1:A:536:TYR:CD2	2.41	0.55
1:C:248:TYR:O	1:C:248:TYR:HD2	1.89	0.55
1:B:248:TYR:C	1:B:248:TYR:CD2	2.80	0.55
1:D:648:PRO:HA	1:D:651:LYS:HB2	1.89	0.55
1:A:557:LEU:HD11	1:A:575:VAL:HG12	1.88	0.55
1:D:709:ASN:HB2	2:R:130:ILE:HG23	1.87	0.55
1:C:470:ASN:O	1:C:472:ARG:HG3	2.07	0.55
1:A:189:ASP:O	1:A:190:PRO:C	2.39	0.55
1:B:175:LYS:O	1:B:178:SER:N	2.39	0.55
1:D:107:THR:CG2	1:D:115:LYS:HD2	2.37	0.55
1:E:184:LYS:HD2	1:E:188:LEU:HG	1.88	0.55
1:C:192:PHE:O	1:C:196:ILE:HG13	2.07	0.55
1:E:136:PRO:O	1:E:137:PHE:C	2.46	0.55
1:A:252:ASP:CG	1:A:253:HIS:H	2.10	0.55
1:B:252:ASP:O	1:B:254:ARG:HD2	2.06	0.55
2:O:63:ILE:HG13	2:O:67:GLU:HB3	1.89	0.55
1:E:71:PHE:CD1	1:E:73:ASN:HB2	2.42	0.55
1:D:550:SER:HB3	1:D:553:GLN:HB2	1.89	0.55
1:C:71:PHE:CD1	1:C:73:ASN:HB2	2.42	0.55
1:B:368:GLN:HG3	1:B:383:GLY:C	2.26	0.55
1:D:376:GLN:C	1:D:378:LEU:H	2.09	0.55
1:C:376:GLN:O	1:C:378:LEU:N	2.40	0.55
1:E:334:LEU:HD12	1:E:334:LEU:N	2.22	0.55
1:E:326:ILE:HG22	1:E:328:PHE:CE1	2.42	0.55
1:A:96:ILE:O	1:A:100:LEU:HG	2.07	0.54
1:B:96:ILE:O	1:B:100:LEU:HG	2.07	0.54
1:D:175:LYS:O	1:D:178:SER:N	2.38	0.54
1:D:184:LYS:HD2	1:D:188:LEU:HG	1.88	0.54
1:D:186:LYS:HB2	1:D:190:PRO:CD	2.36	0.54
1:E:130:SER:HB2	1:E:170:TYR:CE2	2.43	0.54
1:A:165:GLN:C	1:A:167:LYS:H	2.10	0.54
1:B:333:LYS:HA	1:B:336:THR:OG1	2.07	0.54
1:A:405:LEU:N	1:A:405:LEU:HD12	2.22	0.54
2:Q:97:ASN:N	2:Q:97:ASN:ND2	2.38	0.54
1:E:244:ALA:CB	1:E:268:MET:HE3	2.36	0.54
1:E:327:LEU:O	1:E:495:PHE:N	2.40	0.54
1:A:327:LEU:O	1:A:495:PHE:N	2.40	0.54
1:A:74:GLU:HB2	1:A:78:LYS:CB	2.36	0.54
1:F:120:LEU:O	1:F:120:LEU:HD13	2.06	0.54
2:R:36:MET:HE1	2:R:43:PRO:HG3	1.88	0.54
1:D:334:LEU:H	1:D:334:LEU:HD12	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:700:TYR:CD1	1:D:727:GLN:HB3	2.42	0.54
1:F:326:ILE:HG22	1:F:328:PHE:CE1	2.41	0.54
2:P:105:LEU:HD21	2:P:124:MET:SD	2.47	0.54
1:A:180:ASP:C	1:A:182:ILE:N	2.61	0.54
1:A:184:LYS:HD2	1:A:188:LEU:HG	1.88	0.54
1:C:192:PHE:HA	1:C:195:LEU:HB3	1.88	0.54
2:Q:6:GLU:O	2:Q:9:ILE:N	2.38	0.54
1:C:661:ALA:O	1:C:665:LYS:HD3	2.07	0.54
1:D:135:VAL:HG22	1:D:135:VAL:O	2.08	0.54
1:C:432:TYR:HE1	1:C:445:ARG:CZ	2.20	0.54
1:D:432:TYR:CE1	1:D:445:ARG:CZ	2.90	0.54
2:R:64:ASP:OD1	2:R:66:PRO:CD	2.55	0.54
1:B:410:ILE:HG22	1:B:411:GLU:N	2.22	0.54
1:C:632:TYR:O	1:C:633:ASN:HB2	2.08	0.54
1:B:432:TYR:HE1	1:B:445:ARG:CZ	2.20	0.54
1:D:654:ILE:C	1:D:655:ASN:HD22	2.11	0.54
1:C:334:LEU:H	1:C:334:LEU:HD12	1.72	0.54
2:T:84:GLU:OE2	2:T:84:GLU:N	2.37	0.54
1:A:115:LYS:HD3	1:A:153:ILE:HD13	1.88	0.54
1:A:246:SER:O	1:A:250:ALA:HB2	2.07	0.54
1:E:173:ILE:HG13	1:E:242:SER:CB	2.29	0.54
1:C:171:TYR:O	1:C:175:LYS:NZ	2.40	0.54
1:C:252:ASP:O	1:C:254:ARG:HD2	2.06	0.54
1:F:165:GLN:C	1:F:167:LYS:H	2.10	0.54
1:F:405:LEU:HD12	1:F:405:LEU:N	2.23	0.54
2:P:76:MET:HG3	2:P:76:MET:O	2.06	0.54
1:B:446:ILE:HG13	1:B:452:GLU:O	2.07	0.54
1:F:410:ILE:HG22	1:F:411:GLU:N	2.23	0.54
1:C:409:ARG:O	1:C:413:LEU:HG	2.06	0.54
1:C:628:PHE:CD1	1:C:645:TRP:CD1	2.95	0.54
1:A:550:SER:HB3	1:A:553:GLN:HB2	1.89	0.54
1:F:550:SER:HB3	1:F:553:GLN:CB	2.37	0.54
1:E:776:LEU:O	1:E:780:LEU:CD2	2.54	0.54
1:F:700:TYR:CD1	1:F:727:GLN:HB3	2.42	0.54
1:B:80:GLN:O	1:B:80:GLN:HG3	2.08	0.54
1:A:680:LYS:H	1:A:687:GLU:HG3	1.72	0.54
1:A:234:LEU:O	1:A:238:GLN:HG3	2.07	0.54
1:B:171:TYR:O	1:B:175:LYS:NZ	2.41	0.54
1:B:186:LYS:O	1:B:189:ASP:HA	2.08	0.54
1:D:197:LYS:HZ2	1:D:197:LYS:HB3	1.72	0.54
1:F:115:LYS:C	1:F:117:LEU:H	2.11	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:175:LYS:HB2	1:F:175:LYS:HZ3	1.73	0.54
2:P:26:THR:HA	2:P:64:ASP:HA	1.90	0.54
1:D:71:PHE:CD1	1:D:73:ASN:HB2	2.42	0.54
1:F:217:LYS:HB3	1:F:217:LYS:HZ2	1.71	0.54
1:A:655:ASN:ND2	1:A:655:ASN:N	2.54	0.54
1:A:557:LEU:HD11	1:A:575:VAL:CG1	2.37	0.54
2:O:76:MET:O	2:O:76:MET:HG3	2.06	0.54
1:F:680:LYS:H	1:F:687:GLU:HG3	1.72	0.54
1:A:97:TYR:CD2	1:A:102:GLY:HA3	2.42	0.54
1:A:154:ILE:HG13	1:A:171:TYR:CD1	2.43	0.54
1:A:172:GLU:O	1:A:175:LYS:HB3	2.07	0.54
1:A:182:ILE:O	1:A:187:SER:HB2	2.06	0.54
1:A:195:LEU:HD21	1:A:227:ILE:HG12	1.90	0.54
1:B:175:LYS:O	1:B:177:ILE:N	2.41	0.54
1:B:184:LYS:HD2	1:B:188:LEU:HG	1.88	0.54
1:D:171:TYR:O	1:D:175:LYS:NZ	2.41	0.54
1:D:186:LYS:O	1:D:189:ASP:HA	2.08	0.54
1:E:96:ILE:O	1:E:100:LEU:HG	2.07	0.54
1:E:88:LYS:NZ	1:E:172:GLU:OE2	2.41	0.54
1:D:165:GLN:C	1:D:167:LYS:H	2.10	0.54
1:B:661:ALA:O	1:B:665:LYS:HD3	2.07	0.54
2:Q:63:ILE:HG13	2:Q:67:GLU:HB3	1.89	0.54
2:S:26:THR:HA	2:S:64:ASP:HA	1.90	0.54
2:T:16:PHE:HA	2:T:35:VAL:CG1	2.37	0.54
1:E:446:ILE:HG13	1:E:452:GLU:O	2.07	0.54
1:A:405:LEU:CD1	1:A:453:VAL:HG21	2.34	0.54
2:O:136:VAL:HG23	2:O:136:VAL:O	2.08	0.54
1:B:409:ARG:O	1:B:413:LEU:HG	2.06	0.54
1:F:464:VAL:CG2	1:F:465:LEU:HD12	2.33	0.54
1:D:410:ILE:HD13	1:D:419:ILE:CD1	2.37	0.54
1:E:74:GLU:HB2	1:E:78:LYS:CB	2.32	0.54
1:E:432:TYR:HE1	1:E:445:ARG:CZ	2.20	0.54
2:T:105:LEU:HD21	2:T:124:MET:SD	2.47	0.54
1:A:639:ASN:HD22	1:A:639:ASN:C	2.09	0.54
1:E:173:ILE:C	1:E:175:LYS:N	2.60	0.54
1:E:175:LYS:O	1:E:177:ILE:N	2.41	0.54
1:E:186:LYS:O	1:E:189:ASP:HA	2.08	0.54
1:C:186:LYS:O	1:C:189:ASP:HA	2.08	0.54
1:C:246:SER:O	1:C:250:ALA:HB2	2.08	0.54
1:F:184:LYS:NZ	1:F:191:GLU:HB2	2.21	0.54
1:B:671:ARG:HH12	1:B:677:GLY:HA3	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:409:ARG:O	1:A:413:LEU:HG	2.07	0.54
1:E:333:LYS:HA	1:E:336:THR:OG1	2.06	0.54
1:C:405:LEU:HD12	1:C:405:LEU:N	2.23	0.54
1:B:405:LEU:HD12	1:B:405:LEU:N	2.23	0.54
1:E:409:ARG:O	1:E:413:LEU:HG	2.07	0.54
1:E:275:GLY:HA2	1:E:278:LYS:CG	2.33	0.54
1:C:135:VAL:HG22	1:C:135:VAL:O	2.07	0.54
1:B:71:PHE:CD1	1:B:73:ASN:HB2	2.42	0.54
1:A:71:PHE:CD1	1:A:73:ASN:HB2	2.42	0.54
1:F:96:ILE:O	1:F:100:LEU:HG	2.07	0.54
1:B:693:SER:O	1:B:696:LYS:HB2	2.07	0.54
1:F:248:TYR:HD2	1:F:248:TYR:O	1.89	0.54
1:D:481:VAL:O	1:D:484:VAL:HG23	2.07	0.54
1:E:172:GLU:O	1:E:175:LYS:HB3	2.07	0.54
1:C:178:SER:OG	1:C:179:LEU:CD2	2.55	0.54
1:D:252:ASP:CG	1:D:253:HIS:H	2.10	0.54
1:E:697:ILE:HG21	1:E:732:ILE:HD11	1.90	0.54
1:A:697:ILE:HG21	1:A:732:ILE:HD11	1.89	0.54
1:A:668:SER:CA	2:O:14:GLU:HG3	2.33	0.54
1:F:410:ILE:HD13	1:F:419:ILE:CD1	2.38	0.54
1:C:275:GLY:HA2	1:C:278:LYS:CG	2.31	0.54
1:F:632:TYR:O	1:F:633:ASN:HB2	2.08	0.54
1:D:552:TRP:O	1:D:555:GLN:HG2	2.08	0.54
1:E:334:LEU:HD12	1:E:334:LEU:H	1.71	0.54
1:E:305:SER:OG	1:E:307:LEU:HD13	2.07	0.54
2:R:76:MET:HG3	2:R:76:MET:O	2.06	0.54
1:A:481:VAL:O	1:A:484:VAL:HG23	2.07	0.54
1:B:173:ILE:C	1:B:175:LYS:N	2.60	0.54
1:E:197:LYS:HE2	1:E:264:MET:HG2	1.90	0.54
1:C:97:TYR:CD2	1:C:102:GLY:HA3	2.43	0.54
1:D:165:GLN:OE1	1:D:252:ASP:HB3	2.07	0.54
1:A:135:VAL:O	1:A:135:VAL:HG22	2.08	0.54
2:Q:11:GLU:O	2:Q:13:LYS:N	2.40	0.54
2:R:93:ASP:OD1	2:R:97:ASN:ND2	2.41	0.54
1:C:432:TYR:CE1	1:C:445:ARG:CZ	2.90	0.54
2:T:65:PHE:CB	2:T:66:PRO:HD3	2.33	0.54
2:R:26:THR:HA	2:R:64:ASP:HA	1.90	0.54
2:R:136:VAL:O	2:R:136:VAL:HG23	2.08	0.54
1:E:301:ALA:C	1:E:303:LYS:N	2.59	0.54
1:F:693:SER:O	1:F:696:LYS:HB2	2.08	0.54
1:B:305:SER:OG	1:B:307:LEU:HD13	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:481:VAL:O	1:C:484:VAL:HG23	2.07	0.54
1:B:680:LYS:H	1:B:687:GLU:HG3	1.73	0.54
1:A:197:LYS:HB3	1:A:197:LYS:HZ2	1.73	0.54
1:D:234:LEU:O	1:D:238:GLN:HG3	2.08	0.54
1:E:185:ASP:O	1:E:190:PRO:CG	2.56	0.54
1:E:134:LYS:O	1:E:135:VAL:HG12	2.07	0.54
1:F:186:LYS:O	1:F:189:ASP:HA	2.08	0.54
1:D:432:TYR:HE1	1:D:445:ARG:CZ	2.20	0.54
1:D:271:LEU:HD23	1:D:275:GLY:HA3	1.90	0.54
1:C:133:GLU:O	1:C:133:GLU:HG3	2.08	0.54
1:B:464:VAL:CG2	1:B:465:LEU:HD12	2.33	0.54
1:A:301:ALA:C	1:A:303:LYS:N	2.60	0.54
1:F:481:VAL:O	1:F:484:VAL:HG23	2.08	0.54
1:F:356:ASP:OD2	1:F:356:ASP:N	2.40	0.54
1:A:175:LYS:O	1:A:177:ILE:N	2.41	0.54
1:D:225:ILE:HG12	1:D:229:PHE:HE2	1.73	0.54
1:D:246:SER:O	1:D:250:ALA:HB2	2.08	0.54
1:E:230:ILE:HG13	1:E:237:PHE:CE2	2.43	0.54
1:F:230:ILE:HG13	1:F:237:PHE:CE2	2.43	0.54
1:F:671:ARG:O	1:F:674:SER:O	2.26	0.54
2:O:26:THR:HA	2:O:64:ASP:HA	1.90	0.54
1:A:410:ILE:HG22	1:A:411:GLU:N	2.23	0.54
1:D:278:LYS:HE3	1:D:279:ILE:CD1	2.38	0.54
1:C:278:LYS:HE3	1:C:279:ILE:CD1	2.38	0.54
2:Q:136:VAL:O	2:Q:136:VAL:HG23	2.08	0.54
1:B:279:ILE:O	1:B:283:LEU:HD13	2.08	0.54
1:B:410:ILE:HD13	1:B:419:ILE:CD1	2.37	0.54
1:F:271:LEU:HD23	1:F:275:GLY:HA3	1.90	0.54
1:A:323:ASN:HD22	1:A:323:ASN:C	2.12	0.54
2:T:49:GLN:NE2	2:T:49:GLN:H	2.03	0.54
1:E:120:LEU:HD13	1:E:120:LEU:O	2.06	0.54
1:B:432:TYR:CE1	1:B:445:ARG:CZ	2.90	0.54
1:C:700:TYR:CD1	1:C:727:GLN:HB3	2.42	0.54
2:Q:105:LEU:HD21	2:Q:124:MET:SD	2.48	0.54
1:A:648:PRO:HA	1:A:651:LYS:HB2	1.90	0.54
1:D:326:ILE:HG22	1:D:328:PHE:CE1	2.42	0.54
1:A:186:LYS:O	1:A:189:ASP:HA	2.08	0.53
1:B:88:LYS:NZ	1:B:172:GLU:OE2	2.41	0.53
1:E:234:LEU:O	1:E:238:GLN:HG3	2.07	0.53
1:E:246:SER:O	1:E:250:ALA:HB2	2.08	0.53
1:C:218:LEU:C	1:C:220:LEU:H	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:230:ILE:HG13	1:C:237:PHE:CE2	2.43	0.53
1:F:252:ASP:CG	1:F:253:HIS:H	2.11	0.53
1:F:234:LEU:O	1:F:238:GLN:HG3	2.08	0.53
1:E:165:GLN:OE1	1:E:252:ASP:HB3	2.08	0.53
2:Q:26:THR:HA	2:Q:64:ASP:HA	1.90	0.53
1:D:722:ILE:HD13	1:D:764:LEU:CD2	2.38	0.53
1:A:432:TYR:CE1	1:A:445:ARG:CZ	2.91	0.53
1:E:410:ILE:HG22	1:E:411:GLU:N	2.24	0.53
1:E:410:ILE:HD13	1:E:419:ILE:CD1	2.38	0.53
2:T:136:VAL:HG23	2:T:136:VAL:O	2.08	0.53
1:D:410:ILE:HG22	1:D:411:GLU:N	2.23	0.53
1:F:279:ILE:O	1:F:283:LEU:HD13	2.08	0.53
1:B:288:VAL:CG2	1:B:289:GLU:H	2.18	0.53
1:C:550:SER:HB3	1:C:553:GLN:CB	2.38	0.53
1:A:654:ILE:C	1:A:655:ASN:HD22	2.11	0.53
1:E:655:ASN:ND2	1:E:655:ASN:N	2.56	0.53
1:A:738:SER:OG	1:A:739:LYS:N	2.38	0.53
1:C:80:GLN:HG3	1:C:80:GLN:O	2.08	0.53
2:Q:76:MET:HG3	2:Q:76:MET:O	2.06	0.53
1:B:175:LYS:HZ3	1:B:175:LYS:HB2	1.71	0.53
1:C:180:ASP:C	1:C:182:ILE:N	2.62	0.53
1:A:165:GLN:OE1	1:A:252:ASP:HB3	2.07	0.53
1:A:252:ASP:O	1:A:254:ARG:HD2	2.07	0.53
1:A:410:ILE:HD13	1:A:419:ILE:CD1	2.38	0.53
2:T:93:ASP:OD1	2:T:97:ASN:ND2	2.41	0.53
2:R:16:PHE:HA	2:R:35:VAL:CG1	2.37	0.53
1:B:405:LEU:CD1	1:B:453:VAL:HG21	2.34	0.53
1:C:410:ILE:HG22	1:C:411:GLU:N	2.23	0.53
1:C:552:TRP:O	1:C:555:GLN:HG2	2.09	0.53
1:F:286:GLU:O	1:F:290:LYS:HE3	2.08	0.53
1:E:376:GLN:O	1:E:378:LEU:N	2.41	0.53
1:D:334:LEU:HD12	1:D:334:LEU:N	2.23	0.53
1:D:693:SER:O	1:D:696:LYS:HB2	2.08	0.53
1:D:508:ILE:HG12	1:D:536:TYR:CD2	2.42	0.53
1:F:738:SER:OG	1:F:739:LYS:N	2.38	0.53
1:F:709:ASN:HB2	2:T:130:ILE:HG23	1.89	0.53
1:B:648:PRO:HA	1:B:651:LYS:HB2	1.89	0.53
2:S:84:GLU:N	2:S:84:GLU:OE2	2.39	0.53
1:B:130:SER:HB2	1:B:170:TYR:CE2	2.43	0.53
1:B:192:PHE:HB3	1:B:196:ILE:HD11	1.90	0.53
1:B:195:LEU:HD21	1:B:227:ILE:HG12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:105:TYR:CB	1:C:153:ILE:HG12	2.37	0.53
1:D:730:ASN:O	1:D:733:GLU:N	2.41	0.53
1:D:746:LYS:HD3	1:D:750:GLN:HE21	1.74	0.53
1:F:697:ILE:HG21	1:F:732:ILE:HD11	1.90	0.53
1:F:742:ALA:HB1	1:F:743:PRO:HD2	1.90	0.53
1:C:671:ARG:O	1:C:674:SER:O	2.27	0.53
2:S:65:PHE:CB	2:S:66:PRO:HD3	2.32	0.53
1:E:405:LEU:HD12	1:E:405:LEU:N	2.23	0.53
1:A:271:LEU:HD23	1:A:275:GLY:HA3	1.90	0.53
1:A:79:ILE:C	1:A:81:GLN:H	2.11	0.53
1:D:376:GLN:O	1:D:378:LEU:N	2.42	0.53
1:D:609:GLU:OE2	1:D:609:GLU:N	2.34	0.53
1:C:295:VAL:HG21	1:C:603:ILE:CG2	2.38	0.53
1:D:248:TYR:C	1:D:248:TYR:CD2	2.80	0.53
1:E:557:LEU:HD11	1:E:575:VAL:HG12	1.89	0.53
1:D:680:LYS:H	1:D:687:GLU:HG3	1.73	0.53
1:E:680:LYS:H	1:E:687:GLU:HG3	1.72	0.53
1:A:230:ILE:HG13	1:A:237:PHE:CE2	2.43	0.53
1:B:135:VAL:O	1:B:135:VAL:HG22	2.09	0.53
1:F:246:SER:O	1:F:250:ALA:HB2	2.09	0.53
1:D:252:ASP:O	1:D:254:ARG:HD2	2.07	0.53
1:F:722:ILE:HD13	1:F:764:LEU:CD2	2.38	0.53
1:F:244:ALA:CB	1:F:268:MET:HE3	2.37	0.53
1:D:550:SER:HB3	1:D:553:GLN:CB	2.38	0.53
1:A:123:GLU:HG2	1:A:124:GLU:H	1.74	0.53
1:D:97:TYR:CD2	1:D:102:GLY:HA3	2.44	0.53
1:C:76:LEU:H	1:C:76:LEU:CD2	2.22	0.53
1:A:173:ILE:C	1:A:175:LYS:N	2.61	0.53
1:B:179:LEU:HA	1:B:182:ILE:HG22	1.89	0.53
1:E:214:PHE:HB3	1:E:218:LEU:HB3	1.90	0.53
1:C:217:LYS:NZ	1:C:236:GLU:HB2	2.24	0.53
1:F:746:LYS:HD3	1:F:750:GLN:HE21	1.73	0.53
2:Q:64:ASP:OD1	2:Q:66:PRO:CD	2.56	0.53
1:D:279:ILE:O	1:D:283:LEU:HD13	2.09	0.53
1:C:120:LEU:O	1:C:120:LEU:HD13	2.06	0.53
1:A:345:THR:HB	1:A:491:ASP:HB3	1.90	0.53
1:C:621:GLY:HA2	2:Q:94:LYS:NZ	2.23	0.53
1:E:699:GLY:O	1:E:702:SER:N	2.42	0.53
1:B:326:ILE:HG22	1:B:328:PHE:CE1	2.44	0.53
1:D:699:GLY:O	1:D:702:SER:N	2.42	0.53
1:B:356:ASP:N	1:B:356:ASP:OD2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:84:GLU:OE2	2:Q:84:GLU:N	2.39	0.53
1:A:175:LYS:O	1:A:178:SER:N	2.38	0.53
1:A:192:PHE:HB3	1:A:196:ILE:HD11	1.90	0.53
1:B:234:LEU:O	1:B:238:GLN:HG3	2.07	0.53
1:D:175:LYS:O	1:D:177:ILE:N	2.42	0.53
1:E:97:TYR:CD2	1:E:102:GLY:HA3	2.43	0.53
1:F:225:ILE:HG12	1:F:229:PHE:HE2	1.74	0.53
1:C:697:ILE:HG21	1:C:732:ILE:HD11	1.90	0.53
1:B:722:ILE:HD13	1:B:764:LEU:CD2	2.38	0.53
1:F:135:VAL:O	1:F:135:VAL:HG22	2.08	0.53
1:D:502:THR:HG22	2:R:111:ASN:O	2.08	0.53
1:D:79:ILE:C	1:D:81:GLN:H	2.11	0.53
1:C:699:GLY:O	1:C:702:SER:N	2.42	0.53
1:A:700:TYR:CD1	1:A:727:GLN:HB3	2.43	0.53
1:C:301:ALA:C	1:C:303:LYS:N	2.60	0.53
1:E:557:LEU:HD11	1:E:575:VAL:CG1	2.38	0.53
1:A:106:PHE:HA	1:A:154:ILE:O	2.09	0.53
1:D:217:LYS:NZ	1:D:236:GLU:HB2	2.24	0.53
1:F:197:LYS:HE2	1:F:264:MET:HG2	1.91	0.53
1:E:742:ALA:HB1	1:E:743:PRO:HD2	1.91	0.53
1:A:746:LYS:HD3	1:A:750:GLN:HE21	1.73	0.53
1:C:722:ILE:HD13	1:C:764:LEU:CD2	2.38	0.53
2:Q:16:PHE:HA	2:Q:35:VAL:CG1	2.37	0.53
1:C:410:ILE:HD13	1:C:419:ILE:CD1	2.38	0.53
1:C:375:GLY:O	1:C:377:GLN:N	2.42	0.53
1:A:376:GLN:O	1:A:378:LEU:N	2.42	0.53
1:F:118:GLN:HA	1:F:118:GLN:OE1	2.09	0.53
1:E:709:ASN:HB2	2:S:130:ILE:HG23	1.90	0.53
2:S:105:LEU:HD21	2:S:124:MET:SD	2.48	0.53
1:A:175:LYS:HZ3	1:A:175:LYS:HB2	1.72	0.53
1:D:195:LEU:HD21	1:D:227:ILE:HG12	1.90	0.53
1:C:165:GLN:OE1	1:C:252:ASP:HB3	2.08	0.53
1:E:135:VAL:HG22	1:E:135:VAL:O	2.09	0.53
1:F:179:LEU:HA	1:F:182:ILE:HG22	1.91	0.53
1:B:165:GLN:OE1	1:B:252:ASP:HB3	2.08	0.53
1:F:133:GLU:O	1:F:133:GLU:HG3	2.08	0.53
2:O:93:ASP:OD1	2:O:97:ASN:ND2	2.41	0.53
1:E:271:LEU:HD23	1:E:275:GLY:HA3	1.90	0.53
1:F:595:ILE:HG22	1:F:596:ILE:H	1.74	0.53
1:F:278:LYS:HE3	1:F:279:ILE:CD1	2.38	0.53
1:D:628:PHE:CD1	1:D:645:TRP:CD1	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:495:PHE:O	1:D:496:ALA:HB2	2.09	0.53
1:B:700:TYR:CD1	1:B:727:GLN:HB3	2.43	0.53
1:C:680:LYS:H	1:C:687:GLU:HG3	1.73	0.53
1:B:481:VAL:O	1:B:484:VAL:HG23	2.07	0.53
1:E:118:GLN:HA	1:E:118:GLN:OE1	2.09	0.53
1:A:236:GLU:HA	1:A:239:HIS:HD2	1.74	0.53
1:B:199:LEU:C	1:B:201:ASP:N	2.62	0.53
1:D:180:ASP:C	1:D:182:ILE:N	2.63	0.53
1:E:195:LEU:HD21	1:E:227:ILE:HG12	1.91	0.53
1:F:171:TYR:O	1:F:175:LYS:NZ	2.42	0.53
1:F:742:ALA:HB1	1:F:744:GLU:OE1	2.09	0.53
1:A:661:ALA:O	1:A:665:LYS:HD3	2.08	0.53
2:S:62:THR:OG1	2:S:63:ILE:N	2.42	0.53
1:D:405:LEU:N	1:D:405:LEU:HD12	2.23	0.53
1:E:632:TYR:O	1:E:633:ASN:HB2	2.08	0.53
1:A:78:LYS:HG3	1:A:79:ILE:N	2.24	0.53
1:D:286:GLU:O	1:D:290:LYS:HE3	2.09	0.53
1:F:78:LYS:HG3	1:F:79:ILE:N	2.23	0.53
1:D:442:TYR:CD1	1:D:455:TYR:HD1	2.25	0.53
1:C:442:TYR:CD1	1:C:455:TYR:HD1	2.25	0.53
1:C:334:LEU:N	1:C:334:LEU:HD12	2.23	0.53
1:A:186:LYS:HB2	1:A:190:PRO:CD	2.38	0.53
1:B:230:ILE:HG13	1:B:237:PHE:CE2	2.43	0.53
1:D:214:PHE:CD1	1:D:218:LEU:HD23	2.44	0.53
1:E:115:LYS:C	1:E:117:LEU:H	2.11	0.53
1:E:199:LEU:C	1:E:201:ASP:N	2.61	0.53
1:F:165:GLN:HE21	1:F:251:PRO:HG2	1.74	0.53
1:F:178:SER:OG	1:F:179:LEU:CD2	2.56	0.53
1:D:742:ALA:HB1	1:D:743:PRO:HD2	1.91	0.53
2:T:6:GLU:O	2:T:9:ILE:N	2.38	0.53
1:A:339:ILE:O	1:A:340:LYS:C	2.47	0.53
2:P:93:ASP:OD1	2:P:97:ASN:ND2	2.42	0.53
1:D:405:LEU:CD1	1:D:453:VAL:HG21	2.34	0.53
1:F:635:ILE:CD1	1:F:635:ILE:H	2.16	0.53
1:C:409:ARG:CD	1:C:413:LEU:HD21	2.39	0.53
1:E:495:PHE:O	1:E:496:ALA:HB2	2.09	0.53
1:B:156:ILE:HD12	1:B:156:ILE:H	1.73	0.53
1:F:217:LYS:NZ	1:F:236:GLU:HB2	2.24	0.53
1:B:376:GLN:O	1:B:378:LEU:N	2.42	0.53
1:B:699:GLY:O	1:B:702:SER:N	2.42	0.53
1:A:115:LYS:C	1:A:117:LEU:H	2.12	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:185:ASP:O	1:A:190:PRO:CA	2.57	0.52
1:B:184:LYS:NZ	1:B:191:GLU:HB2	2.24	0.52
1:B:189:ASP:O	1:B:191:GLU:HG2	2.08	0.52
1:D:178:SER:OG	1:D:179:LEU:CD2	2.58	0.52
1:E:105:TYR:CB	1:E:153:ILE:HG12	2.39	0.52
1:E:217:LYS:NZ	1:E:236:GLU:HB2	2.24	0.52
1:C:161:ILE:CG2	1:C:168:GLU:HB2	2.39	0.52
1:F:105:TYR:CB	1:F:153:ILE:HG12	2.38	0.52
1:B:742:ALA:HB1	1:B:743:PRO:HD2	1.91	0.52
1:C:742:ALA:HB1	1:C:744:GLU:OE1	2.09	0.52
1:E:730:ASN:O	1:E:733:GLU:N	2.42	0.52
1:E:746:LYS:HD3	1:E:750:GLN:HE21	1.74	0.52
2:Q:63:ILE:HG13	2:Q:67:GLU:CB	2.39	0.52
2:T:26:THR:HA	2:T:64:ASP:HA	1.91	0.52
1:A:278:LYS:HE3	1:A:279:ILE:CD1	2.38	0.52
1:B:409:ARG:CD	1:B:413:LEU:HD21	2.39	0.52
1:E:595:ILE:HG22	1:E:596:ILE:H	1.74	0.52
1:E:722:ILE:HD13	1:E:764:LEU:CD2	2.38	0.52
1:D:595:ILE:HG22	1:D:596:ILE:H	1.73	0.52
1:F:500:SER:HG	1:F:502:THR:HG1	1.56	0.52
1:B:118:GLN:HA	1:B:118:GLN:OE1	2.10	0.52
2:R:105:LEU:HD21	2:R:124:MET:SD	2.48	0.52
1:A:88:LYS:NZ	1:A:172:GLU:OE2	2.42	0.52
1:B:217:LYS:NZ	1:B:236:GLU:HB2	2.24	0.52
1:D:184:LYS:NZ	1:D:191:GLU:HB2	2.23	0.52
1:E:171:TYR:O	1:E:175:LYS:NZ	2.42	0.52
1:D:164:GLU:C	1:D:166:SER:H	2.12	0.52
1:E:165:GLN:HE21	1:E:251:PRO:HG2	1.74	0.52
1:F:671:ARG:HH12	1:F:677:GLY:HA3	1.73	0.52
1:B:764:LEU:C	1:B:766:HIS:H	2.12	0.52
2:P:63:ILE:HG13	2:P:67:GLU:CB	2.39	0.52
2:O:63:ILE:HG13	2:O:67:GLU:CB	2.39	0.52
1:C:271:LEU:HD23	1:C:275:GLY:HA3	1.91	0.52
1:A:502:THR:HG22	2:O:111:ASN:O	2.10	0.52
1:F:376:GLN:O	1:F:378:LEU:N	2.42	0.52
1:B:345:THR:HB	1:B:491:ASP:HB3	1.90	0.52
1:C:118:GLN:HA	1:C:118:GLN:OE1	2.09	0.52
1:A:699:GLY:O	1:A:702:SER:N	2.42	0.52
1:B:470:ASN:O	1:B:472:ARG:HG3	2.08	0.52
1:A:171:TYR:O	1:A:175:LYS:NZ	2.43	0.52
1:D:115:LYS:HB3	1:D:115:LYS:HZ3	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:115:LYS:C	1:C:117:LEU:H	2.11	0.52
1:C:164:GLU:C	1:C:166:SER:H	2.13	0.52
1:B:730:ASN:O	1:B:733:GLU:N	2.42	0.52
1:C:671:ARG:HH12	1:C:677:GLY:HA3	1.71	0.52
2:O:62:THR:OG1	2:O:63:ILE:N	2.43	0.52
1:D:339:ILE:O	1:D:340:LYS:C	2.47	0.52
2:Q:62:THR:OG1	2:Q:63:ILE:N	2.43	0.52
2:T:63:ILE:HG13	2:T:67:GLU:HB3	1.90	0.52
2:R:11:GLU:O	2:R:13:LYS:N	2.41	0.52
1:C:323:ASN:C	1:C:323:ASN:HD22	2.10	0.52
1:C:324:THR:HB	1:C:499:PRO:CA	2.37	0.52
1:C:609:GLU:N	1:C:609:GLU:OE2	2.33	0.52
1:D:354:SER:OG	1:D:355:SER:N	2.42	0.52
1:F:611:THR:O	1:F:615:ILE:HG13	2.10	0.52
1:B:557:LEU:HD11	1:B:575:VAL:CG1	2.39	0.52
1:E:356:ASP:N	1:E:356:ASP:OD2	2.42	0.52
1:D:115:LYS:C	1:D:117:LEU:H	2.11	0.52
1:F:218:LEU:C	1:F:220:LEU:H	2.06	0.52
1:D:165:GLN:HE21	1:D:251:PRO:HG2	1.74	0.52
1:C:742:ALA:HB1	1:C:743:PRO:HD2	1.91	0.52
1:D:697:ILE:HG21	1:D:732:ILE:HD11	1.91	0.52
1:D:742:ALA:HB1	1:D:744:GLU:OE1	2.10	0.52
1:A:478:ALA:CB	1:A:486:LYS:O	2.57	0.52
2:R:62:THR:OG1	2:R:63:ILE:N	2.42	0.52
1:D:275:GLY:CA	1:D:278:LYS:HG3	2.35	0.52
2:S:136:VAL:HG23	2:S:136:VAL:O	2.08	0.52
1:B:78:LYS:HG3	1:B:79:ILE:N	2.24	0.52
1:E:781:ASN:N	1:E:789:ASN:HD21	2.02	0.52
1:C:257:LEU:O	1:C:261:ALA:O	2.28	0.52
1:A:501:LEU:HD22	2:O:112:LEU:HD21	1.92	0.52
1:F:97:TYR:CD2	1:F:102:GLY:HA3	2.44	0.52
1:E:693:SER:O	1:E:696:LYS:HB2	2.09	0.52
1:B:654:ILE:C	1:B:655:ASN:HD22	2.12	0.52
1:D:76:LEU:HD22	1:D:76:LEU:N	2.25	0.52
1:E:700:TYR:CD1	1:E:727:GLN:HB3	2.43	0.52
1:E:648:PRO:HA	1:E:651:LYS:HB2	1.90	0.52
1:F:470:ASN:O	1:F:472:ARG:HG3	2.09	0.52
1:E:385:LEU:O	1:E:385:LEU:HD13	2.10	0.52
1:D:218:LEU:O	1:D:218:LEU:HG	2.10	0.52
1:E:175:LYS:O	1:E:178:SER:N	2.38	0.52
1:F:164:GLU:C	1:F:166:SER:H	2.13	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:133:GLU:HG3	1:D:133:GLU:O	2.08	0.52
1:F:405:LEU:CD1	1:F:453:VAL:HG21	2.33	0.52
2:S:63:ILE:HG13	2:S:67:GLU:HB3	1.90	0.52
1:B:327:LEU:O	1:B:495:PHE:N	2.42	0.52
1:B:630:ARG:NH1	2:P:83:GLU:HG2	2.25	0.52
1:C:597:ASN:C	1:C:599:GLU:H	2.13	0.52
1:F:781:ASN:N	1:F:789:ASN:HD21	2.03	0.52
1:B:324:THR:HB	1:B:499:PRO:CA	2.38	0.52
1:F:217:LYS:HB2	1:F:236:GLU:CG	2.40	0.52
2:O:105:LEU:HD21	2:O:124:MET:SD	2.50	0.52
1:F:305:SER:OG	1:F:307:LEU:HD13	2.09	0.52
1:C:195:LEU:HD21	1:C:227:ILE:HG12	1.90	0.52
1:C:197:LYS:HE2	1:C:264:MET:HG2	1.91	0.52
1:B:165:GLN:HE21	1:B:251:PRO:HG2	1.73	0.52
2:P:11:GLU:O	2:P:13:LYS:N	2.42	0.52
2:R:63:ILE:HG13	2:R:67:GLU:CB	2.39	0.52
1:E:279:ILE:O	1:E:283:LEU:HD13	2.08	0.52
1:A:464:VAL:CG2	1:A:465:LEU:HD12	2.33	0.52
1:D:324:THR:HB	1:D:499:PRO:CA	2.38	0.52
1:A:120:LEU:HD13	1:A:120:LEU:O	2.06	0.52
1:A:80:GLN:HG3	1:A:80:GLN:O	2.09	0.52
1:F:80:GLN:HG3	1:F:80:GLN:O	2.09	0.52
1:B:557:LEU:HD11	1:B:575:VAL:HG12	1.90	0.52
2:S:21:LYS:HD3	2:S:21:LYS:C	2.30	0.52
1:B:218:LEU:O	1:B:218:LEU:HG	2.10	0.52
1:C:175:LYS:O	1:C:178:SER:N	2.38	0.52
1:C:217:LYS:HB2	1:C:236:GLU:CG	2.40	0.52
1:C:218:LEU:HG	1:C:218:LEU:O	2.10	0.52
1:D:161:ILE:CG2	1:D:168:GLU:HB2	2.39	0.52
1:E:164:GLU:C	1:E:166:SER:H	2.12	0.52
1:A:413:LEU:HB2	1:A:419:ILE:HG12	1.92	0.52
1:F:339:ILE:O	1:F:340:LYS:C	2.46	0.52
1:F:413:LEU:HB2	1:F:419:ILE:HG12	1.92	0.52
1:D:409:ARG:CD	1:D:413:LEU:HD21	2.40	0.52
1:F:271:LEU:HA	1:F:275:GLY:HA3	1.91	0.52
1:E:78:LYS:HG3	1:E:79:ILE:N	2.24	0.52
1:C:781:ASN:N	1:C:789:ASN:HD21	2.03	0.52
1:C:78:LYS:HG3	1:C:79:ILE:N	2.24	0.52
1:D:480:ASN:HD22	1:D:481:VAL:N	2.08	0.52
1:C:480:ASN:HD22	1:C:481:VAL:N	2.07	0.52
1:C:326:ILE:HG22	1:C:328:PHE:CE1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:106:PHE:HA	1:B:154:ILE:O	2.10	0.52
1:D:230:ILE:HG13	1:D:237:PHE:CE2	2.44	0.52
1:E:217:LYS:HB2	1:E:236:GLU:CG	2.39	0.52
1:A:161:ILE:HG23	1:A:168:GLU:HB2	1.92	0.52
1:A:165:GLN:HE21	1:A:251:PRO:HG2	1.74	0.52
1:C:730:ASN:O	1:C:733:GLU:N	2.43	0.52
1:C:746:LYS:HD3	1:C:750:GLN:HE21	1.74	0.52
2:P:6:GLU:O	2:P:9:ILE:N	2.37	0.52
2:S:63:ILE:HG13	2:S:67:GLU:CB	2.40	0.52
1:F:409:ARG:CD	1:F:413:LEU:HD21	2.39	0.52
1:E:288:VAL:CG2	1:E:289:GLU:H	2.19	0.52
1:F:597:ASN:C	1:F:599:GLU:H	2.14	0.52
2:S:49:GLN:H	2:S:49:GLN:NE2	2.03	0.52
1:D:375:GLY:O	1:D:377:GLN:N	2.42	0.52
1:E:301:ALA:C	1:E:303:LYS:H	2.13	0.52
1:A:301:ALA:C	1:A:303:LYS:H	2.13	0.52
1:E:470:ASN:O	1:E:472:ARG:HG3	2.10	0.52
1:E:128:MET:O	1:E:128:MET:HG2	2.09	0.52
1:C:648:PRO:HA	1:C:651:LYS:HB2	1.91	0.52
1:A:105:TYR:CB	1:A:153:ILE:HG12	2.39	0.52
1:A:217:LYS:NZ	1:A:236:GLU:HB2	2.24	0.52
1:B:246:SER:O	1:B:250:ALA:HB2	2.09	0.52
1:D:214:PHE:HB3	1:D:218:LEU:HB3	1.91	0.52
1:F:161:ILE:HG23	1:F:168:GLU:HB2	1.90	0.52
1:A:134:LYS:O	1:A:135:VAL:HG12	2.09	0.52
1:A:730:ASN:O	1:A:733:GLU:N	2.43	0.52
2:O:11:GLU:O	2:O:13:LYS:N	2.42	0.52
2:S:93:ASP:OD1	2:S:97:ASN:ND2	2.42	0.52
2:S:64:ASP:OD1	2:S:66:PRO:CD	2.56	0.52
2:T:64:ASP:OD1	2:T:66:PRO:CD	2.57	0.52
2:P:136:VAL:HG23	2:P:136:VAL:O	2.09	0.52
1:E:409:ARG:CD	1:E:413:LEU:HD21	2.40	0.52
1:E:597:ASN:C	1:E:599:GLU:H	2.13	0.52
1:E:502:THR:HG22	2:S:111:ASN:O	2.10	0.52
1:A:305:SER:OG	1:A:307:LEU:HD13	2.09	0.52
1:F:648:PRO:HA	1:F:651:LYS:HB2	1.91	0.52
1:D:305:SER:OG	1:D:307:LEU:HD13	2.09	0.52
1:C:385:LEU:HD13	1:C:385:LEU:O	2.10	0.52
2:Q:21:LYS:HD3	2:Q:21:LYS:C	2.30	0.52
2:O:102:ALA:HB2	2:O:125:ILE:HG13	1.92	0.52
1:A:214:PHE:HB3	1:A:218:LEU:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:106:PHE:HA	1:D:154:ILE:O	2.10	0.52
1:C:192:PHE:HB3	1:C:196:ILE:HD11	1.92	0.52
1:B:742:ALA:HB1	1:B:744:GLU:OE1	2.09	0.52
2:T:62:THR:OG1	2:T:63:ILE:N	2.42	0.52
1:D:463:THR:HG22	1:D:465:LEU:H	1.75	0.52
1:D:413:LEU:HB2	1:D:419:ILE:HG12	1.92	0.52
1:F:552:TRP:O	1:F:555:GLN:HG2	2.09	0.52
1:D:78:LYS:HG3	1:D:79:ILE:N	2.25	0.52
1:C:156:ILE:HD12	1:C:156:ILE:H	1.75	0.52
1:B:120:LEU:HD13	1:B:120:LEU:O	2.06	0.52
1:F:301:ALA:C	1:F:303:LYS:H	2.13	0.52
1:B:501:LEU:HD22	2:P:112:LEU:HD21	1.92	0.52
2:R:102:ALA:HB2	2:R:125:ILE:HG13	1.92	0.52
1:B:130:SER:O	1:B:132:GLY:O	2.28	0.51
1:B:197:LYS:HE2	1:B:264:MET:HG2	1.91	0.51
1:D:189:ASP:O	1:D:190:PRO:C	2.42	0.51
1:E:197:LYS:HE3	1:E:264:MET:HA	1.92	0.51
1:B:164:GLU:C	1:B:166:SER:H	2.13	0.51
1:A:742:ALA:HB1	1:A:743:PRO:HD2	1.91	0.51
1:B:271:LEU:HD23	1:B:275:GLY:HA3	1.91	0.51
1:F:275:GLY:HA2	1:F:278:LYS:CG	2.33	0.51
1:A:156:ILE:H	1:A:156:ILE:HD12	1.75	0.51
1:E:286:GLU:O	1:E:290:LYS:HE3	2.10	0.51
1:D:781:ASN:N	1:D:789:ASN:HD21	2.03	0.51
2:O:36:MET:HE1	2:O:43:PRO:HG3	1.91	0.51
1:F:375:GLY:O	1:F:377:GLN:N	2.43	0.51
1:E:124:GLU:OE2	1:E:129:ASN:ND2	2.42	0.51
1:D:621:GLY:HA2	2:R:94:LYS:NZ	2.25	0.51
1:C:305:SER:OG	1:C:307:LEU:HD13	2.09	0.51
1:C:214:PHE:CD1	1:C:218:LEU:HD23	2.46	0.51
2:P:64:ASP:OD1	2:P:66:PRO:CD	2.56	0.51
1:A:764:LEU:C	1:A:766:HIS:H	2.13	0.51
1:A:308:VAL:O	1:A:311:HIS:HB2	2.10	0.51
1:F:308:VAL:O	1:F:311:HIS:HB2	2.10	0.51
1:B:271:LEU:HA	1:B:275:GLY:HA3	1.92	0.51
1:C:413:LEU:HB2	1:C:419:ILE:HG12	1.93	0.51
1:B:301:ALA:C	1:B:303:LYS:H	2.14	0.51
1:B:521:ASN:HB3	1:B:524:GLU:HB3	1.92	0.51
1:D:76:LEU:H	1:D:76:LEU:HD22	1.75	0.51
1:A:302:LEU:HA	1:A:305:SER:HB3	1.92	0.51
1:A:118:GLN:HA	1:A:118:GLN:OE1	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:21:LYS:C	2:R:21:LYS:HD3	2.30	0.51
1:B:173:ILE:O	1:B:175:LYS:N	2.43	0.51
1:D:197:LYS:HE2	1:D:264:MET:HG2	1.91	0.51
1:E:130:SER:O	1:E:132:GLY:O	2.28	0.51
1:E:229:PHE:CD1	1:E:229:PHE:O	2.64	0.51
1:F:218:LEU:HG	1:F:218:LEU:O	2.11	0.51
1:F:229:PHE:O	1:F:229:PHE:CD1	2.64	0.51
1:B:746:LYS:HD3	1:B:750:GLN:HE21	1.74	0.51
1:C:308:VAL:O	1:C:311:HIS:HB2	2.11	0.51
1:F:405:LEU:H	1:F:405:LEU:HD12	1.75	0.51
2:Q:93:ASP:OD1	2:Q:97:ASN:ND2	2.43	0.51
1:E:414:LYS:O	1:E:417:GLY:N	2.40	0.51
1:A:552:TRP:O	1:A:555:GLN:HG2	2.10	0.51
1:B:724:ARG:NH1	1:B:724:ARG:HG3	2.26	0.51
1:C:724:ARG:NH1	1:C:724:ARG:HG3	2.25	0.51
1:D:257:LEU:O	1:D:261:ALA:O	2.28	0.51
1:F:741:ILE:HG13	1:F:741:ILE:O	2.11	0.51
1:D:320:ARG:O	1:D:321:GLU:C	2.49	0.51
1:C:356:ASP:N	1:C:356:ASP:OD2	2.42	0.51
1:B:385:LEU:O	1:B:385:LEU:HD13	2.11	0.51
2:P:21:LYS:C	2:P:21:LYS:HD3	2.30	0.51
1:B:115:LYS:C	1:B:117:LEU:H	2.13	0.51
1:C:131:ARG:HB2	1:C:170:TYR:CE2	2.45	0.51
1:F:88:LYS:NZ	1:F:172:GLU:OE2	2.43	0.51
1:C:668:SER:CA	2:Q:14:GLU:HG3	2.32	0.51
1:E:405:LEU:CD1	1:E:453:VAL:HG21	2.33	0.51
1:E:413:LEU:HB2	1:E:419:ILE:HG12	1.92	0.51
1:A:597:ASN:C	1:A:599:GLU:H	2.14	0.51
1:B:323:ASN:HD22	1:B:323:ASN:C	2.12	0.51
1:A:781:ASN:N	1:A:789:ASN:HD21	2.03	0.51
1:F:74:GLU:HB2	1:F:78:LYS:CB	2.37	0.51
1:A:375:GLY:O	1:A:377:GLN:N	2.43	0.51
1:F:442:TYR:CD1	1:F:455:TYR:HD1	2.26	0.51
1:E:345:THR:HB	1:E:491:ASP:HB3	1.92	0.51
1:A:693:SER:O	1:A:696:LYS:HB2	2.09	0.51
1:E:128:MET:CG	1:E:128:MET:O	2.58	0.51
1:E:611:THR:O	1:E:615:ILE:HG13	2.10	0.51
1:D:385:LEU:O	1:D:385:LEU:HD13	2.11	0.51
1:B:229:PHE:CD1	1:B:229:PHE:O	2.64	0.51
1:B:234:LEU:N	1:B:234:LEU:HD23	2.26	0.51
1:D:105:TYR:CB	1:D:153:ILE:HG12	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:217:LYS:HB2	1:D:236:GLU:CG	2.41	0.51
1:E:154:ILE:HG13	1:E:171:TYR:CD1	2.44	0.51
1:E:173:ILE:O	1:E:175:LYS:N	2.44	0.51
1:E:218:LEU:O	1:E:218:LEU:HG	2.11	0.51
1:E:90:PRO:HG2	1:E:93:VAL:CG1	2.40	0.51
1:C:115:LYS:HZ1	1:C:117:LEU:HB2	1.76	0.51
1:F:730:ASN:O	1:F:733:GLU:N	2.43	0.51
1:D:308:VAL:O	1:D:311:HIS:HB2	2.11	0.51
1:D:564:VAL:O	1:D:567:THR:HG22	2.10	0.51
1:A:308:VAL:HG22	1:A:336:THR:O	2.11	0.51
1:B:495:PHE:O	1:B:496:ALA:HB2	2.10	0.51
1:B:278:LYS:HE3	1:B:279:ILE:CD1	2.38	0.51
1:F:463:THR:HG22	1:F:465:LEU:H	1.76	0.51
1:F:324:THR:HB	1:F:499:PRO:CA	2.37	0.51
1:F:525:LYS:O	1:F:529:VAL:HG23	2.11	0.51
1:E:552:TRP:O	1:E:555:GLN:HG2	2.10	0.51
1:B:375:GLY:O	1:B:377:GLN:N	2.43	0.51
1:F:123:GLU:HG2	1:F:124:GLU:H	1.74	0.51
1:E:375:GLY:O	1:E:377:GLN:N	2.43	0.51
1:A:442:TYR:CD1	1:A:455:TYR:HD1	2.26	0.51
1:E:501:LEU:CD2	2:S:112:LEU:HD21	2.41	0.51
1:E:501:LEU:HD22	2:S:112:LEU:HD21	1.92	0.51
1:F:257:LEU:O	1:F:261:ALA:O	2.29	0.51
1:D:345:THR:HB	1:D:491:ASP:HB3	1.91	0.51
1:A:521:ASN:HB3	1:A:524:GLU:HB3	1.93	0.51
1:E:234:LEU:N	1:E:234:LEU:HD23	2.26	0.51
1:C:165:GLN:HE21	1:C:251:PRO:HG2	1.75	0.51
1:C:229:PHE:O	1:C:229:PHE:CD1	2.64	0.51
1:F:189:ASP:O	1:F:191:GLU:N	2.44	0.51
1:A:164:GLU:C	1:A:166:SER:H	2.13	0.51
2:P:62:THR:OG1	2:P:63:ILE:N	2.43	0.51
1:B:478:ALA:CB	1:B:486:LYS:O	2.57	0.51
1:E:156:ILE:H	1:E:156:ILE:HD12	1.75	0.51
1:F:323:ASN:HD22	1:F:323:ASN:C	2.11	0.51
1:A:286:GLU:O	1:A:290:LYS:HE3	2.10	0.51
1:B:552:TRP:O	1:B:555:GLN:HG2	2.10	0.51
1:D:120:LEU:HD13	1:D:120:LEU:O	2.06	0.51
1:C:354:SER:OG	1:C:355:SER:N	2.43	0.51
1:D:456:LYS:HA	1:D:469:PHE:CD1	2.46	0.51
1:D:118:GLN:HA	1:D:118:GLN:OE1	2.09	0.51
1:B:105:TYR:CB	1:B:153:ILE:HG12	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:214:PHE:CD1	1:E:218:LEU:HD23	2.46	0.51
1:C:217:LYS:HZ2	1:C:236:GLU:HB2	1.76	0.51
1:C:214:PHE:HB3	1:C:218:LEU:HB3	1.92	0.51
1:C:197:LYS:HE3	1:C:264:MET:HA	1.93	0.51
1:F:184:LYS:HE2	1:F:193:LEU:HD12	1.93	0.51
1:D:333:LYS:C	1:D:335:ALA:H	2.14	0.51
1:F:308:VAL:HG22	1:F:336:THR:O	2.11	0.51
1:C:339:ILE:O	1:C:340:LYS:C	2.47	0.51
1:C:478:ALA:CB	1:C:486:LYS:O	2.58	0.51
1:F:495:PHE:O	1:F:496:ALA:HB2	2.11	0.51
1:D:597:ASN:C	1:D:599:GLU:H	2.14	0.51
1:F:288:VAL:CG2	1:F:289:GLU:H	2.20	0.51
2:R:76:MET:HA	2:R:79:THR:HG22	1.93	0.51
1:E:680:LYS:H	1:E:687:GLU:CG	2.24	0.51
1:A:229:PHE:CD1	1:A:229:PHE:O	2.64	0.51
1:B:197:LYS:HE3	1:B:264:MET:HA	1.92	0.51
1:D:217:LYS:HB3	1:D:217:LYS:HZ2	1.74	0.51
1:D:229:PHE:O	1:D:229:PHE:CD1	2.64	0.51
1:E:106:PHE:HA	1:E:154:ILE:O	2.11	0.51
1:C:106:PHE:HA	1:C:154:ILE:O	2.09	0.51
1:C:173:ILE:C	1:C:175:LYS:N	2.60	0.51
1:F:106:PHE:HA	1:F:154:ILE:O	2.10	0.51
1:F:195:LEU:HD21	1:F:227:ILE:HG12	1.91	0.51
1:F:197:LYS:HB3	1:F:197:LYS:HZ2	1.76	0.51
1:E:742:ALA:HB1	1:E:744:GLU:OE1	2.11	0.51
1:B:668:SER:CA	2:P:14:GLU:HG3	2.30	0.51
1:E:308:VAL:HG22	1:E:336:THR:O	2.11	0.51
1:B:564:VAL:O	1:B:567:THR:HG22	2.10	0.51
1:C:405:LEU:H	1:C:405:LEU:HD12	1.75	0.51
2:T:63:ILE:HG13	2:T:67:GLU:CB	2.40	0.51
1:B:413:LEU:HB2	1:B:419:ILE:HG12	1.92	0.51
1:B:781:ASN:N	1:B:789:ASN:HD21	2.03	0.51
1:F:217:LYS:CB	1:F:236:GLU:HG3	2.41	0.51
1:E:654:ILE:C	1:E:655:ASN:HD22	2.14	0.51
1:C:301:ALA:HB1	1:C:604:LEU:HB2	1.92	0.51
1:D:301:ALA:C	1:D:303:LYS:H	2.13	0.51
1:D:741:ILE:O	1:D:741:ILE:HG13	2.11	0.51
1:A:76:LEU:H	1:A:76:LEU:CD2	2.24	0.51
1:E:636:ALA:O	1:E:640:LYS:HA	2.11	0.51
2:Q:76:MET:HA	2:Q:79:THR:HG22	1.92	0.51
1:A:456:LYS:HA	1:A:469:PHE:CD1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:217:LYS:HB2	1:B:236:GLU:CG	2.40	0.51
1:D:173:ILE:O	1:D:175:LYS:N	2.44	0.51
1:C:184:LYS:HZ2	1:C:191:GLU:HG3	1.74	0.51
1:F:154:ILE:HG13	1:F:171:TYR:CD1	2.46	0.51
1:B:764:LEU:O	1:B:766:HIS:N	2.44	0.51
1:D:668:SER:CA	2:R:14:GLU:HG3	2.33	0.51
1:F:137:PHE:O	1:F:138:ALA:C	2.50	0.51
1:E:564:VAL:O	1:E:567:THR:HG22	2.11	0.51
1:F:657:ILE:HD11	1:F:701:LEU:HD23	1.93	0.51
1:C:134:LYS:CG	1:C:136:PRO:HD3	2.34	0.51
1:C:463:THR:HG22	1:C:465:LEU:H	1.76	0.51
1:A:324:THR:HB	1:A:499:PRO:CA	2.38	0.51
1:F:609:GLU:N	1:F:609:GLU:OE2	2.35	0.51
1:E:80:GLN:O	1:E:80:GLN:HG3	2.09	0.51
1:D:456:LYS:HA	1:D:469:PHE:CE1	2.46	0.51
1:F:385:LEU:O	1:F:385:LEU:HD13	2.11	0.51
2:T:21:LYS:C	2:T:21:LYS:HD3	2.31	0.51
1:C:293:ILE:HD11	1:C:617:LYS:HD3	1.92	0.51
1:A:214:PHE:CD1	1:A:218:LEU:HD23	2.46	0.51
1:A:131:ARG:HG3	1:A:243:LEU:HD21	1.92	0.51
1:D:178:SER:OG	1:D:179:LEU:N	2.44	0.51
1:D:185:ASP:O	1:D:190:PRO:CA	2.59	0.51
1:C:217:LYS:HB3	1:C:217:LYS:HZ2	1.75	0.51
1:F:214:PHE:HB3	1:F:218:LEU:HB3	1.92	0.51
1:B:741:ILE:HG13	1:B:741:ILE:O	2.11	0.51
1:A:742:ALA:HB1	1:A:744:GLU:OE1	2.10	0.51
1:E:339:ILE:O	1:E:340:LYS:C	2.48	0.51
2:S:11:GLU:O	2:S:13:LYS:N	2.44	0.51
2:T:65:PHE:O	2:T:68:PHE:HB3	2.11	0.51
1:A:405:LEU:HD12	1:A:405:LEU:H	1.75	0.51
1:A:271:LEU:HA	1:A:275:GLY:HA3	1.92	0.51
1:B:339:ILE:O	1:B:340:LYS:C	2.47	0.51
1:E:302:LEU:HA	1:E:305:SER:HB3	1.93	0.51
1:B:302:LEU:HA	1:B:305:SER:HB3	1.93	0.51
1:B:118:GLN:HE22	1:B:143:PHE:HD2	1.59	0.51
1:A:611:THR:O	1:A:615:ILE:HG13	2.11	0.51
2:O:21:LYS:HD3	2:O:21:LYS:C	2.31	0.51
1:D:192:PHE:HB3	1:D:196:ILE:HD11	1.92	0.50
1:D:197:LYS:HE3	1:D:264:MET:HA	1.93	0.50
1:C:170:TYR:O	1:C:174:GLY:HA3	2.11	0.50
1:C:173:ILE:O	1:C:175:LYS:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:217:LYS:CB	1:C:236:GLU:HG3	2.41	0.50
1:F:192:PHE:HB3	1:F:196:ILE:HD11	1.92	0.50
1:F:234:LEU:HD23	1:F:234:LEU:N	2.26	0.50
1:A:137:PHE:O	1:A:138:ALA:C	2.49	0.50
1:A:409:ARG:CD	1:A:413:LEU:HD21	2.40	0.50
1:C:657:ILE:HD11	1:C:701:LEU:HD23	1.93	0.50
1:E:405:LEU:H	1:E:405:LEU:HD12	1.76	0.50
1:A:275:GLY:CA	1:A:278:LYS:HG3	2.36	0.50
1:B:409:ARG:HD2	1:B:413:LEU:HD21	1.93	0.50
1:A:495:PHE:O	1:A:496:ALA:HB2	2.10	0.50
1:C:602:PHE:N	1:C:602:PHE:HD2	2.09	0.50
1:F:499:PRO:CG	1:F:504:ILE:HD11	2.41	0.50
1:C:288:VAL:CG2	1:C:289:GLU:H	2.20	0.50
1:C:502:THR:HG22	2:Q:111:ASN:O	2.10	0.50
1:E:324:THR:HB	1:E:499:PRO:CA	2.38	0.50
1:C:74:GLU:HB2	1:C:78:LYS:CB	2.39	0.50
1:F:345:THR:HB	1:F:491:ASP:HB3	1.93	0.50
1:D:80:GLN:HG3	1:D:80:GLN:O	2.10	0.50
1:D:118:GLN:HE22	1:D:143:PHE:HD2	1.59	0.50
1:D:356:ASP:OD2	1:D:356:ASP:N	2.41	0.50
1:A:179:LEU:HA	1:A:182:ILE:HG22	1.93	0.50
1:A:197:LYS:HE2	1:A:264:MET:HG2	1.92	0.50
1:A:217:LYS:HB2	1:A:236:GLU:CG	2.41	0.50
1:A:218:LEU:HG	1:A:218:LEU:O	2.10	0.50
1:B:170:TYR:O	1:B:174:GLY:HA3	2.11	0.50
1:E:197:LYS:HB3	1:E:197:LYS:HZ2	1.77	0.50
1:E:217:LYS:CB	1:E:236:GLU:HG3	2.40	0.50
1:D:308:VAL:HG22	1:D:336:THR:O	2.11	0.50
2:Q:65:PHE:O	2:Q:68:PHE:HB3	2.12	0.50
1:C:308:VAL:HG22	1:C:336:THR:O	2.10	0.50
1:B:308:VAL:HG22	1:B:336:THR:O	2.12	0.50
1:F:478:ALA:CB	1:F:486:LYS:O	2.58	0.50
1:C:271:LEU:HA	1:C:275:GLY:HA3	1.92	0.50
1:C:275:GLY:CA	1:C:278:LYS:HG3	2.35	0.50
1:E:271:LEU:HA	1:E:275:GLY:HA3	1.92	0.50
1:E:463:THR:HG22	1:E:465:LEU:H	1.76	0.50
1:B:463:THR:HG22	1:B:465:LEU:H	1.76	0.50
1:B:286:GLU:O	1:B:290:LYS:HE3	2.12	0.50
1:D:499:PRO:CG	1:D:504:ILE:HD11	2.41	0.50
1:F:156:ILE:HD12	1:F:156:ILE:H	1.76	0.50
1:E:442:TYR:CD1	1:E:455:TYR:HD1	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:345:THR:HB	1:C:491:ASP:HB3	1.92	0.50
1:B:301:ALA:HB1	1:B:604:LEU:HB2	1.94	0.50
1:A:354:SER:OG	1:A:355:SER:N	2.44	0.50
1:E:480:ASN:HD22	1:E:481:VAL:N	2.09	0.50
1:C:118:GLN:HE22	1:C:143:PHE:HD2	1.60	0.50
1:B:456:LYS:HA	1:B:469:PHE:CD1	2.46	0.50
1:A:173:ILE:O	1:A:175:LYS:N	2.44	0.50
1:D:154:ILE:HG13	1:D:171:TYR:CD1	2.46	0.50
1:F:173:ILE:O	1:F:175:LYS:N	2.44	0.50
1:F:197:LYS:HE3	1:F:264:MET:HA	1.93	0.50
1:B:657:ILE:HD11	1:B:701:LEU:HD23	1.93	0.50
1:E:333:LYS:C	1:E:335:ALA:H	2.15	0.50
1:B:308:VAL:O	1:B:311:HIS:HB2	2.11	0.50
1:E:409:ARG:HD2	1:E:413:LEU:HD21	1.94	0.50
1:F:497:LEU:CD1	1:F:556:MET:HG2	2.37	0.50
1:C:301:ALA:C	1:C:303:LYS:H	2.14	0.50
1:B:480:ASN:HD22	1:B:481:VAL:N	2.10	0.50
1:C:456:LYS:HA	1:C:469:PHE:CD1	2.47	0.50
1:A:197:LYS:HE3	1:A:264:MET:HA	1.92	0.50
1:B:755:ARG:O	1:B:756:ILE:C	2.50	0.50
1:A:333:LYS:C	1:A:335:ALA:H	2.15	0.50
1:F:755:ARG:O	1:F:756:ILE:C	2.49	0.50
1:C:409:ARG:HD2	1:C:413:LEU:HD21	1.93	0.50
1:E:657:ILE:HD11	1:E:701:LEU:HD23	1.94	0.50
1:D:288:VAL:CG2	1:D:289:GLU:H	2.20	0.50
1:C:322:LEU:HD13	1:C:556:MET:CE	2.41	0.50
1:F:217:LYS:HB2	1:F:236:GLU:HG3	1.93	0.50
1:A:525:LYS:O	1:A:529:VAL:HG23	2.11	0.50
1:A:384:ASN:O	1:A:386:GLU:N	2.45	0.50
1:A:519:THR:OG1	1:A:520:PRO:HD2	2.12	0.50
1:F:301:ALA:HB1	1:F:604:LEU:HB2	1.94	0.50
1:C:797:ILE:HG13	1:C:797:ILE:O	2.11	0.50
1:D:173:ILE:C	1:D:175:LYS:N	2.61	0.50
1:C:225:ILE:HG12	1:C:229:PHE:HE2	1.76	0.50
1:F:115:LYS:HZ1	1:F:117:LEU:HB2	1.77	0.50
1:B:252:ASP:CG	1:B:253:HIS:N	2.65	0.50
2:O:65:PHE:O	2:O:68:PHE:HB3	2.11	0.50
2:R:65:PHE:O	2:R:68:PHE:HB3	2.12	0.50
1:D:271:LEU:HA	1:D:275:GLY:HA3	1.92	0.50
1:F:327:LEU:O	1:F:495:PHE:N	2.40	0.50
1:C:499:PRO:CG	1:C:504:ILE:HD11	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:286:GLU:O	1:C:290:LYS:HE3	2.11	0.50
1:C:540:ARG:CZ	1:C:627:TYR:CE1	2.95	0.50
1:E:738:SER:OG	1:E:739:LYS:N	2.38	0.50
1:A:690:LYS:HD2	1:A:741:ILE:CG2	2.42	0.50
1:B:501:LEU:CD2	2:P:112:LEU:HD21	2.41	0.50
1:A:480:ASN:HD22	1:A:481:VAL:N	2.09	0.50
1:F:118:GLN:HE22	1:F:143:PHE:HD2	1.60	0.50
1:F:797:ILE:O	1:F:797:ILE:HG13	2.12	0.50
1:E:192:PHE:HB3	1:E:196:ILE:HD11	1.92	0.50
1:C:234:LEU:HD23	1:C:234:LEU:N	2.26	0.50
1:C:254:ARG:N	1:C:254:ARG:HD2	2.26	0.50
1:B:133:GLU:HG3	1:B:133:GLU:O	2.08	0.50
1:B:690:LYS:HD2	1:B:741:ILE:CG2	2.42	0.50
1:B:333:LYS:C	1:B:335:ALA:H	2.15	0.50
1:C:446:ILE:HA	1:C:453:VAL:HA	1.94	0.50
1:C:279:ILE:HD13	1:C:279:ILE:N	2.26	0.50
1:B:271:LEU:HB3	1:B:276:PHE:CE2	2.47	0.50
1:C:414:LYS:O	1:C:417:GLY:N	2.40	0.50
1:F:271:LEU:HD13	1:F:276:PHE:HE2	1.77	0.50
1:C:630:ARG:NH1	2:Q:83:GLU:HG2	2.26	0.50
1:F:502:THR:HG22	2:T:111:ASN:O	2.11	0.50
1:E:323:ASN:HD22	1:E:323:ASN:C	2.13	0.50
1:D:384:ASN:O	1:D:386:GLU:N	2.44	0.50
1:E:521:ASN:HB3	1:E:524:GLU:HB3	1.93	0.50
1:F:295:VAL:HG21	1:F:603:ILE:CG2	2.42	0.50
1:C:521:ASN:HB3	1:C:524:GLU:HB3	1.92	0.50
2:P:102:ALA:HB2	2:P:125:ILE:HG13	1.93	0.50
1:E:797:ILE:O	1:E:797:ILE:HG13	2.12	0.50
2:T:102:ALA:HB2	2:T:125:ILE:HG13	1.93	0.50
1:E:473:ASN:OD1	1:E:473:ASN:N	2.45	0.50
1:B:214:PHE:HB3	1:B:218:LEU:HB3	1.92	0.50
1:E:115:LYS:HZ1	1:E:117:LEU:HB2	1.77	0.50
1:E:185:ASP:O	1:E:190:PRO:HD3	2.11	0.50
1:C:178:SER:OG	1:C:179:LEU:N	2.44	0.50
1:C:217:LYS:HB2	1:C:236:GLU:HG3	1.93	0.50
1:B:137:PHE:O	1:B:138:ALA:C	2.50	0.50
1:E:666:ASN:O	1:E:670:ILE:HG13	2.12	0.50
1:F:409:ARG:HD2	1:F:413:LEU:HD21	1.94	0.50
1:B:595:ILE:HG22	1:B:596:ILE:H	1.75	0.50
1:B:633:ASN:O	1:B:642:TYR:HE1	1.95	0.50
1:C:137:PHE:O	1:C:138:ALA:C	2.50	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:271:LEU:HB3	1:F:276:PHE:CE2	2.46	0.50
1:B:288:VAL:CG2	1:B:289:GLU:N	2.74	0.50
1:D:629:ASN:HB3	1:D:632:TYR:CD1	2.46	0.50
1:C:497:LEU:CD1	1:C:556:MET:HG2	2.40	0.50
1:D:521:ASN:HB3	1:D:524:GLU:HB3	1.93	0.50
1:E:301:ALA:HB1	1:E:604:LEU:HB2	1.93	0.50
1:F:680:LYS:H	1:F:687:GLU:CG	2.25	0.50
1:B:680:LYS:H	1:B:687:GLU:CG	2.25	0.50
1:F:302:LEU:HA	1:F:305:SER:HB3	1.92	0.50
1:C:302:LEU:HA	1:C:305:SER:HB3	1.93	0.50
1:B:636:ALA:O	1:B:640:LYS:HA	2.12	0.50
1:D:196:ILE:O	1:D:199:LEU:HB2	2.12	0.50
1:D:217:LYS:CB	1:D:236:GLU:HG3	2.41	0.50
1:F:199:LEU:C	1:F:201:ASP:N	2.65	0.50
2:T:9:ILE:HD12	2:T:69:LEU:CD2	2.42	0.50
1:A:564:VAL:O	1:A:567:THR:HG22	2.12	0.50
1:F:333:LYS:C	1:F:335:ALA:H	2.15	0.50
1:E:308:VAL:O	1:E:311:HIS:HB2	2.12	0.50
2:O:9:ILE:HD12	2:O:69:LEU:CD2	2.41	0.50
1:E:288:VAL:CG2	1:E:289:GLU:N	2.74	0.50
1:B:525:LYS:O	1:B:529:VAL:HG23	2.11	0.50
1:B:597:ASN:C	1:B:599:GLU:H	2.14	0.50
1:D:724:ARG:HG3	1:D:724:ARG:NH1	2.26	0.50
1:E:384:ASN:O	1:E:386:GLU:N	2.45	0.50
1:D:519:THR:OG1	1:D:520:PRO:HD2	2.11	0.50
1:A:741:ILE:HG13	1:A:741:ILE:O	2.11	0.50
1:A:680:LYS:H	1:A:687:GLU:CG	2.25	0.50
1:A:456:LYS:HA	1:A:469:PHE:CE1	2.47	0.50
1:F:456:LYS:HA	1:F:469:PHE:CD1	2.47	0.50
1:A:385:LEU:O	1:A:385:LEU:HD13	2.11	0.50
1:A:234:LEU:HD23	1:A:234:LEU:N	2.27	0.50
1:B:234:LEU:H	1:B:234:LEU:HD23	1.77	0.50
1:F:173:ILE:C	1:F:175:LYS:N	2.61	0.50
1:F:214:PHE:CD1	1:F:218:LEU:HD23	2.47	0.50
2:T:12:PHE:HE1	2:T:72:MET:CE	2.25	0.50
1:A:755:ARG:O	1:A:756:ILE:C	2.50	0.50
2:O:65:PHE:CB	2:O:66:PRO:HD3	2.32	0.50
2:R:12:PHE:HE1	2:R:72:MET:CE	2.25	0.50
1:E:278:LYS:HE3	1:E:279:ILE:CD1	2.39	0.50
1:A:595:ILE:HG22	1:A:596:ILE:H	1.75	0.50
1:A:288:VAL:CG2	1:A:289:GLU:H	2.19	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:501:LEU:CD2	2:O:112:LEU:HD21	2.42	0.50
1:F:354:SER:OG	1:F:355:SER:N	2.45	0.50
1:D:302:LEU:HA	1:D:305:SER:HB3	1.93	0.50
1:A:118:GLN:HE22	1:A:143:PHE:HD2	1.59	0.50
1:C:688:PHE:O	1:C:689:ALA:C	2.51	0.50
1:B:293:ILE:HD11	1:B:617:LYS:HD3	1.94	0.50
1:A:90:PRO:HG2	1:A:93:VAL:CG1	2.42	0.49
1:D:115:LYS:HZ1	1:D:117:LEU:HB2	1.77	0.49
1:C:564:VAL:O	1:C:567:THR:HG22	2.11	0.49
1:B:405:LEU:HD12	1:B:405:LEU:H	1.76	0.49
1:B:414:LYS:O	1:B:417:GLY:N	2.41	0.49
1:A:463:THR:HG22	1:A:465:LEU:H	1.76	0.49
1:F:629:ASN:HB3	1:F:632:TYR:CD1	2.47	0.49
1:D:156:ILE:HD12	1:D:156:ILE:H	1.75	0.49
1:B:442:TYR:HD1	1:B:455:TYR:CD1	2.26	0.49
1:F:248:TYR:HD2	1:F:248:TYR:C	2.16	0.49
1:B:502:THR:HG22	2:P:111:ASN:O	2.12	0.49
1:C:456:LYS:HA	1:C:469:PHE:CE1	2.47	0.49
1:A:797:ILE:HG13	1:A:797:ILE:O	2.12	0.49
1:B:214:PHE:CD1	1:B:218:LEU:HD23	2.46	0.49
1:E:217:LYS:HB2	1:E:236:GLU:HG3	1.92	0.49
1:F:254:ARG:HD2	1:F:254:ARG:N	2.26	0.49
1:E:252:ASP:CG	1:E:253:HIS:N	2.65	0.49
2:S:6:GLU:O	2:S:9:ILE:N	2.38	0.49
1:C:271:LEU:HB3	1:C:276:PHE:CE2	2.48	0.49
1:B:279:ILE:N	1:B:279:ILE:HD13	2.27	0.49
1:A:630:ARG:NH1	2:O:83:GLU:HG2	2.28	0.49
1:C:495:PHE:O	1:C:496:ALA:HB2	2.12	0.49
1:F:323:ASN:HD22	1:F:598:PRO:HB3	1.78	0.49
2:P:49:GLN:H	2:P:49:GLN:NE2	2.03	0.49
1:C:384:ASN:O	1:C:386:GLU:N	2.44	0.49
1:F:384:ASN:O	1:F:386:GLU:N	2.45	0.49
1:E:442:TYR:HD1	1:E:455:TYR:CD1	2.26	0.49
1:A:621:GLY:HA2	2:O:94:LYS:NZ	2.27	0.49
1:A:301:ALA:HB1	1:A:604:LEU:HB2	1.93	0.49
1:C:76:LEU:N	1:C:76:LEU:HD22	2.28	0.49
1:A:76:LEU:N	1:A:76:LEU:HD22	2.27	0.49
1:B:320:ARG:O	1:B:321:GLU:C	2.49	0.49
1:B:797:ILE:HG13	1:B:797:ILE:O	2.12	0.49
1:D:234:LEU:HD23	1:D:234:LEU:N	2.26	0.49
1:C:223:LYS:HD3	1:C:224:SER:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:666:ASN:O	1:B:670:ILE:HG13	2.12	0.49
1:B:736:LEU:HD11	1:B:750:GLN:NE2	2.26	0.49
1:D:755:ARG:O	1:D:756:ILE:C	2.51	0.49
1:E:271:LEU:HB3	1:E:276:PHE:CE2	2.47	0.49
1:C:735:VAL:O	1:C:738:SER:HB3	2.11	0.49
1:B:248:TYR:C	1:B:248:TYR:HD2	2.16	0.49
1:F:618:ASN:O	1:F:622:LYS:HB2	2.11	0.49
1:C:320:ARG:O	1:C:321:GLU:C	2.49	0.49
1:E:320:ARG:O	1:E:321:GLU:C	2.50	0.49
1:A:223:LYS:HD3	1:A:224:SER:H	1.76	0.49
1:B:128:MET:HG2	1:B:128:MET:O	2.12	0.49
1:D:170:TYR:O	1:D:174:GLY:HA3	2.12	0.49
1:E:170:TYR:O	1:E:174:GLY:HA3	2.12	0.49
1:C:252:ASP:CG	1:C:253:HIS:N	2.65	0.49
1:F:296:LEU:N	1:F:296:LEU:CD2	2.38	0.49
2:P:65:PHE:O	2:P:68:PHE:HB3	2.12	0.49
1:C:755:ARG:O	1:C:756:ILE:C	2.50	0.49
1:D:540:ARG:CZ	1:D:627:TYR:CE1	2.95	0.49
1:F:442:TYR:HD1	1:F:455:TYR:CD1	2.26	0.49
1:E:609:GLU:N	1:E:609:GLU:OE2	2.37	0.49
1:E:724:ARG:HG3	1:E:724:ARG:NH1	2.27	0.49
1:E:741:ILE:HG13	1:E:741:ILE:O	2.12	0.49
1:D:680:LYS:H	1:D:687:GLU:CG	2.26	0.49
1:C:680:LYS:H	1:C:687:GLU:CG	2.26	0.49
1:F:320:ARG:O	1:F:321:GLU:C	2.49	0.49
1:D:688:PHE:O	1:D:689:ALA:C	2.51	0.49
1:E:688:PHE:O	1:E:689:ALA:C	2.51	0.49
2:T:101:SER:OG	2:T:104:GLU:HG2	2.13	0.49
1:A:173:ILE:O	1:A:174:GLY:C	2.51	0.49
1:A:184:LYS:O	1:A:185:ASP:C	2.51	0.49
1:D:234:LEU:HD23	1:D:234:LEU:H	1.77	0.49
1:C:234:LEU:HD23	1:C:234:LEU:H	1.77	0.49
1:F:210:PHE:HZ	1:F:221:ASN:OD1	1.95	0.49
1:A:133:GLU:O	1:A:133:GLU:HG3	2.08	0.49
2:R:6:GLU:O	2:R:9:ILE:N	2.38	0.49
1:F:134:LYS:O	1:F:135:VAL:HG12	2.13	0.49
2:S:65:PHE:O	2:S:68:PHE:HB3	2.12	0.49
1:F:602:PHE:HD2	1:F:602:PHE:N	2.10	0.49
1:D:322:LEU:HD13	1:D:556:MET:CE	2.42	0.49
1:D:74:GLU:HB2	1:D:78:LYS:CB	2.39	0.49
1:F:217:LYS:CG	1:F:236:GLU:HG3	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:690:LYS:HD2	1:E:741:ILE:CG2	2.42	0.49
1:B:616:GLU:HA	1:B:620:THR:HB	1.94	0.49
1:E:76:LEU:HD22	1:E:76:LEU:N	2.27	0.49
1:E:248:TYR:C	1:E:248:TYR:HD2	2.16	0.49
1:F:76:LEU:H	1:F:76:LEU:CD2	2.25	0.49
1:F:76:LEU:HD22	1:F:76:LEU:N	2.27	0.49
1:D:686:ASP:O	1:D:689:ALA:HB3	2.12	0.49
1:E:456:LYS:HA	1:E:469:PHE:CD1	2.47	0.49
1:D:473:ASN:N	1:D:473:ASN:OD1	2.45	0.49
1:A:473:ASN:OD1	1:A:473:ASN:N	2.44	0.49
1:B:184:LYS:O	1:B:185:ASP:C	2.51	0.49
1:B:217:LYS:CB	1:B:236:GLU:HG3	2.42	0.49
1:C:131:ARG:HB2	1:C:170:TYR:CZ	2.48	0.49
1:F:90:PRO:HG2	1:F:93:VAL:CG1	2.42	0.49
1:D:252:ASP:CG	1:D:253:HIS:N	2.65	0.49
2:O:64:ASP:OD1	2:O:66:PRO:CD	2.56	0.49
1:C:333:LYS:C	1:C:335:ALA:H	2.15	0.49
1:D:405:LEU:H	1:D:405:LEU:HD12	1.77	0.49
1:B:275:GLY:CA	1:B:278:LYS:HG3	2.37	0.49
1:F:633:ASN:O	1:F:642:TYR:HE1	1.96	0.49
1:C:327:LEU:HG	1:C:595:ILE:HG23	1.93	0.49
1:C:595:ILE:HG22	1:C:596:ILE:H	1.75	0.49
1:F:552:TRP:HA	1:F:555:GLN:HG2	1.95	0.49
1:E:499:PRO:CG	1:E:504:ILE:HD11	2.42	0.49
1:D:765:THR:HG22	1:D:769:SER:HB2	1.95	0.49
1:E:540:ARG:CZ	1:E:627:TYR:CE1	2.96	0.49
1:B:442:TYR:CD1	1:B:455:TYR:HD1	2.25	0.49
1:F:521:ASN:HB3	1:F:524:GLU:HB3	1.93	0.49
1:D:295:VAL:HG21	1:D:603:ILE:CG2	2.42	0.49
2:Q:102:ALA:HB2	2:Q:125:ILE:HG13	1.93	0.49
1:B:611:THR:O	1:B:615:ILE:HG13	2.12	0.49
1:B:473:ASN:N	1:B:473:ASN:OD1	2.45	0.49
1:E:184:LYS:NZ	1:E:191:GLU:HG3	2.27	0.49
1:D:254:ARG:N	1:D:254:ARG:HD2	2.27	0.49
1:A:252:ASP:CG	1:A:253:HIS:N	2.66	0.49
1:D:666:ASN:O	1:D:670:ILE:HG13	2.11	0.49
1:F:736:LEU:HD11	1:F:750:GLN:NE2	2.27	0.49
1:D:134:LYS:O	1:D:135:VAL:HG12	2.13	0.49
2:Q:12:PHE:HE1	2:Q:72:MET:CE	2.25	0.49
1:E:764:LEU:O	1:E:766:HIS:N	2.46	0.49
1:C:327:LEU:O	1:C:495:PHE:N	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:629:ASN:HB3	1:C:632:TYR:CD1	2.48	0.49
1:E:322:LEU:HD13	1:E:556:MET:CE	2.43	0.49
1:B:76:LEU:HD22	1:B:76:LEU:N	2.27	0.49
1:D:248:TYR:C	1:D:248:TYR:HD2	2.16	0.49
1:A:320:ARG:O	1:A:321:GLU:C	2.49	0.49
1:D:797:ILE:O	1:D:797:ILE:HG13	2.13	0.49
1:A:210:PHE:HZ	1:A:221:ASN:OD1	1.96	0.49
1:D:184:LYS:O	1:D:185:ASP:C	2.51	0.49
1:D:197:LYS:HD2	1:D:197:LYS:O	2.13	0.49
1:E:182:ILE:O	1:E:187:SER:HB2	2.13	0.49
1:C:88:LYS:NZ	1:C:172:GLU:OE2	2.46	0.49
1:F:189:ASP:O	1:F:191:GLU:HG2	2.12	0.49
1:C:736:LEU:HD11	1:C:750:GLN:NE2	2.27	0.49
1:D:137:PHE:O	1:D:138:ALA:C	2.50	0.49
1:C:308:VAL:O	1:C:311:HIS:N	2.42	0.49
1:A:271:LEU:HB3	1:A:276:PHE:CE2	2.47	0.49
1:D:279:ILE:N	1:D:279:ILE:HD13	2.28	0.49
1:A:629:ASN:HB3	1:A:632:TYR:CD1	2.47	0.49
1:C:323:ASN:HD22	1:C:598:PRO:HB3	1.78	0.49
1:B:529:VAL:O	1:B:532:LEU:HB2	2.13	0.49
1:F:293:ILE:HD11	1:F:617:LYS:HD3	1.94	0.49
2:R:73:ALA:O	2:R:75:LYS:N	2.46	0.49
1:F:688:PHE:O	1:F:689:ALA:C	2.51	0.49
1:A:356:ASP:N	1:A:356:ASP:OD2	2.42	0.49
1:F:473:ASN:OD1	1:F:473:ASN:N	2.45	0.49
1:A:217:LYS:CB	1:A:236:GLU:HG3	2.42	0.49
1:B:178:SER:OG	1:B:179:LEU:CD2	2.60	0.49
1:B:210:PHE:HZ	1:B:221:ASN:OD1	1.96	0.49
1:C:128:MET:CE	1:C:239:HIS:NE2	2.76	0.49
1:C:173:ILE:O	1:C:174:GLY:C	2.52	0.49
1:C:184:LYS:O	1:C:185:ASP:C	2.51	0.49
1:D:164:GLU:O	1:D:166:SER:N	2.46	0.49
1:C:666:ASN:O	1:C:670:ILE:HG13	2.13	0.49
1:E:736:LEU:HD11	1:E:750:GLN:NE2	2.27	0.49
1:A:657:ILE:HD11	1:A:701:LEU:HD23	1.94	0.49
1:C:433:TYR:HE1	1:C:448:ASP:OD2	1.96	0.49
2:T:11:GLU:C	2:T:13:LYS:H	2.16	0.49
1:E:602:PHE:HD2	1:E:602:PHE:N	2.11	0.49
1:D:628:PHE:CE2	2:R:90:ARG:HD3	2.35	0.49
1:D:525:LYS:O	1:D:529:VAL:HG23	2.13	0.49
1:A:500:SER:HG	1:A:502:THR:HG1	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:525:LYS:O	1:E:529:VAL:HG23	2.13	0.49
2:P:120:GLU:HA	2:P:123:GLN:HB2	1.95	0.49
1:E:519:THR:OG1	1:E:520:PRO:HD2	2.13	0.49
1:C:122:GLU:CG	1:C:147:ARG:HB2	2.43	0.49
1:A:122:GLU:CG	1:A:147:ARG:HB2	2.43	0.49
1:D:636:ALA:O	1:D:640:LYS:HA	2.12	0.49
1:B:706:ASN:O	2:P:130:ILE:HG23	2.13	0.49
1:F:480:ASN:HD22	1:F:481:VAL:N	2.10	0.49
1:F:456:LYS:HA	1:F:469:PHE:CE1	2.48	0.49
2:Q:73:ALA:O	2:Q:75:LYS:N	2.46	0.49
1:B:561:ASN:OD1	1:B:574:VAL:N	2.41	0.49
1:D:217:LYS:HB2	1:D:236:GLU:HG3	1.93	0.49
1:D:217:LYS:HZ2	1:D:236:GLU:HB2	1.77	0.49
1:D:223:LYS:HD3	1:D:224:SER:H	1.78	0.49
1:E:184:LYS:O	1:E:185:ASP:C	2.51	0.49
1:E:133:GLU:HG3	1:E:133:GLU:O	2.08	0.49
1:E:137:PHE:O	1:E:138:ALA:C	2.51	0.49
1:F:234:LEU:HD23	1:F:234:LEU:H	1.77	0.49
2:P:65:PHE:CB	2:P:66:PRO:HD3	2.34	0.49
2:Q:9:ILE:HD12	2:Q:69:LEU:CD2	2.43	0.49
1:E:433:TYR:HE1	1:E:448:ASP:OD2	1.96	0.49
1:D:327:LEU:O	1:D:495:PHE:N	2.42	0.49
1:D:630:ARG:NH1	2:R:83:GLU:HG2	2.28	0.49
1:A:552:TRP:HA	1:A:555:GLN:HG2	1.94	0.49
1:B:499:PRO:CG	1:B:504:ILE:HD11	2.42	0.49
2:Q:120:GLU:HA	2:Q:123:GLN:HB2	1.95	0.49
1:B:384:ASN:O	1:B:386:GLU:N	2.46	0.49
1:C:616:GLU:HA	1:C:620:THR:HB	1.95	0.49
1:C:735:VAL:HA	1:C:738:SER:HB2	1.95	0.49
1:B:456:LYS:HA	1:B:469:PHE:CE1	2.47	0.49
1:F:716:LYS:O	1:F:720:ILE:HG22	2.13	0.49
1:D:611:THR:O	1:D:615:ILE:HG13	2.12	0.49
1:A:189:ASP:O	1:A:191:GLU:HG2	2.13	0.48
1:B:184:LYS:NZ	1:B:191:GLU:HG3	2.27	0.48
1:E:199:LEU:HG	1:E:225:ILE:O	2.13	0.48
1:F:564:VAL:O	1:F:567:THR:HG22	2.13	0.48
1:D:445:ARG:HG2	1:D:471:TRP:CZ3	2.48	0.48
1:D:446:ILE:HA	1:D:453:VAL:HA	1.95	0.48
2:R:13:LYS:HZ1	2:R:65:PHE:HB3	1.76	0.48
2:R:65:PHE:CB	2:R:66:PRO:HD3	2.34	0.48
2:S:12:PHE:HE1	2:S:72:MET:CE	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:445:ARG:HG2	1:A:471:TRP:CZ3	2.48	0.48
1:D:271:LEU:HB3	1:D:276:PHE:CE2	2.48	0.48
1:C:271:LEU:HD13	1:C:276:PHE:HE2	1.78	0.48
1:E:630:ARG:NH1	2:S:83:GLU:HG2	2.25	0.48
1:D:409:ARG:HD2	1:D:413:LEU:HD21	1.94	0.48
1:D:368:GLN:HA	1:D:368:GLN:OE1	2.13	0.48
1:D:391:ILE:HG23	1:D:398:ILE:O	2.13	0.48
1:C:621:GLY:HA2	2:Q:94:LYS:HZ3	1.78	0.48
1:C:735:VAL:O	1:C:738:SER:CB	2.61	0.48
1:F:735:VAL:O	1:F:738:SER:HB3	2.12	0.48
1:F:122:GLU:CG	1:F:147:ARG:HB2	2.43	0.48
1:D:301:ALA:HB1	1:D:604:LEU:HB2	1.93	0.48
1:B:122:GLU:CG	1:B:147:ARG:HB2	2.43	0.48
1:D:690:LYS:HD3	1:D:741:ILE:HG23	1.95	0.48
1:E:118:GLN:HE22	1:E:143:PHE:HD2	1.61	0.48
1:A:170:TYR:O	1:A:174:GLY:HA3	2.12	0.48
1:A:178:SER:OG	1:A:179:LEU:CD2	2.61	0.48
1:A:196:ILE:O	1:A:199:LEU:HB2	2.14	0.48
1:B:144:GLU:CG	1:B:177:ILE:HD11	2.41	0.48
1:D:199:LEU:HG	1:D:225:ILE:O	2.13	0.48
1:E:178:SER:OG	1:E:179:LEU:CD2	2.60	0.48
1:E:89:ILE:HG22	1:E:90:PRO:HD2	1.95	0.48
1:C:173:ILE:HG23	1:C:174:GLY:H	1.77	0.48
1:E:164:GLU:HG2	1:E:166:SER:HB3	1.95	0.48
1:D:736:LEU:HD11	1:D:750:GLN:NE2	2.27	0.48
1:D:433:TYR:HE1	1:D:448:ASP:OD2	1.95	0.48
1:D:671:ARG:HH12	1:D:677:GLY:HA3	1.74	0.48
1:E:497:LEU:CD1	1:E:556:MET:HG2	2.40	0.48
2:P:117:THR:CG2	2:P:120:GLU:HB2	2.43	0.48
1:B:445:ARG:HG2	1:B:471:TRP:CZ3	2.48	0.48
1:D:501:LEU:HD22	2:R:112:LEU:HD21	1.96	0.48
1:F:437:SER:O	1:F:439:ASN:N	2.43	0.48
1:C:473:ASN:OD1	1:C:473:ASN:N	2.45	0.48
1:A:173:ILE:HG23	1:A:174:GLY:H	1.78	0.48
1:A:234:LEU:HD23	1:A:234:LEU:H	1.78	0.48
1:B:182:ILE:O	1:B:187:SER:HB2	2.12	0.48
1:D:88:LYS:NZ	1:D:172:GLU:OE2	2.46	0.48
1:E:173:ILE:O	1:E:174:GLY:C	2.51	0.48
1:C:102:GLY:C	1:C:103:GLU:HG3	2.34	0.48
1:F:170:TYR:O	1:F:174:GLY:HA3	2.13	0.48
1:B:665:LYS:HE2	2:P:11:GLU:OE2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:9:ILE:HD12	2:P:69:LEU:CD2	2.43	0.48
1:C:665:LYS:HE2	2:Q:11:GLU:OE2	2.14	0.48
2:Q:13:LYS:HA	2:Q:16:PHE:HB3	1.95	0.48
1:C:565:LYS:C	1:C:567:THR:H	2.17	0.48
1:A:629:ASN:HD22	1:A:630:ARG:N	2.11	0.48
1:F:322:LEU:HD13	1:F:556:MET:CE	2.43	0.48
1:A:322:LEU:HD13	1:A:556:MET:CE	2.44	0.48
1:A:540:ARG:CZ	1:A:627:TYR:CE1	2.96	0.48
1:C:501:LEU:CD2	2:Q:112:LEU:HD21	2.44	0.48
1:E:391:ILE:HG23	1:E:398:ILE:O	2.13	0.48
1:C:741:ILE:O	1:C:741:ILE:HG13	2.12	0.48
1:F:472:ARG:NH1	1:F:472:ARG:HB3	2.29	0.48
1:E:456:LYS:HA	1:E:469:PHE:CE1	2.48	0.48
2:S:102:ALA:HB2	2:S:125:ILE:HG13	1.94	0.48
1:D:293:ILE:HD11	1:D:617:LYS:HD3	1.95	0.48
1:A:199:LEU:C	1:A:201:ASP:N	2.65	0.48
1:B:173:ILE:O	1:B:174:GLY:C	2.52	0.48
1:E:217:LYS:CG	1:E:236:GLU:HG3	2.44	0.48
1:C:169:VAL:O	1:C:172:GLU:HB2	2.14	0.48
1:E:296:LEU:N	1:E:296:LEU:CD2	2.38	0.48
1:E:254:ARG:N	1:E:254:ARG:HD2	2.26	0.48
1:A:279:ILE:HD13	1:A:279:ILE:N	2.28	0.48
2:O:6:GLU:O	2:O:9:ILE:N	2.39	0.48
1:B:581:GLN:HE21	1:B:629:ASN:H	1.61	0.48
1:B:486:LYS:HE3	1:B:570:THR:O	2.13	0.48
1:F:581:GLN:HE21	1:F:629:ASN:H	1.61	0.48
1:D:495:PHE:O	1:D:581:GLN:HG2	2.13	0.48
1:D:602:PHE:N	1:D:602:PHE:HD2	2.11	0.48
1:E:323:ASN:HD22	1:E:598:PRO:HB3	1.79	0.48
2:S:120:GLU:HA	2:S:123:GLN:HB2	1.95	0.48
1:E:368:GLN:OE1	1:E:368:GLN:HA	2.14	0.48
1:F:334:LEU:CD1	1:F:334:LEU:H	2.26	0.48
1:C:686:ASP:O	1:C:689:ALA:HB3	2.14	0.48
2:O:146:THR:O	2:O:147:ALA:C	2.52	0.48
1:B:115:LYS:HZ1	1:B:117:LEU:HB2	1.78	0.48
1:E:107:THR:HG21	1:E:115:LYS:CD	2.36	0.48
1:F:199:LEU:HG	1:F:225:ILE:O	2.13	0.48
1:A:736:LEU:HD11	1:A:750:GLN:NE2	2.27	0.48
1:C:765:THR:HG22	1:C:769:SER:HB2	1.96	0.48
1:B:409:ARG:CZ	1:B:413:LEU:HD21	2.44	0.48
1:D:478:ALA:CB	1:D:486:LYS:O	2.58	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:630:ARG:NH1	2:T:83:GLU:HG2	2.26	0.48
1:C:525:LYS:O	1:C:529:VAL:HG23	2.12	0.48
1:A:504:ILE:N	1:A:504:ILE:HD12	2.29	0.48
1:B:325:TYR:CD1	1:B:598:PRO:HD3	2.49	0.48
1:E:325:TYR:CD1	1:E:598:PRO:HD3	2.49	0.48
1:E:597:ASN:O	1:E:599:GLU:N	2.46	0.48
1:B:334:LEU:H	1:B:334:LEU:CD1	2.27	0.48
1:E:690:LYS:HD3	1:E:741:ILE:HG23	1.94	0.48
1:F:735:VAL:HA	1:F:738:SER:HB2	1.96	0.48
2:P:101:SER:OG	2:P:104:GLU:HG2	2.14	0.48
2:Q:146:THR:O	2:Q:147:ALA:C	2.52	0.48
1:B:184:LYS:HE2	1:B:193:LEU:HD12	1.96	0.48
1:B:196:ILE:O	1:B:199:LEU:HB2	2.14	0.48
1:E:173:ILE:HG23	1:E:174:GLY:H	1.78	0.48
1:E:234:LEU:H	1:E:234:LEU:HD23	1.77	0.48
1:C:128:MET:HE3	1:C:239:HIS:NE2	2.29	0.48
1:F:184:LYS:HE2	1:F:193:LEU:CD1	2.43	0.48
1:B:164:GLU:O	1:B:166:SER:N	2.47	0.48
1:D:339:ILE:O	1:D:342:GLY:N	2.47	0.48
2:T:58:ASP:HB3	2:T:62:THR:CG2	2.44	0.48
1:B:433:TYR:HE1	1:B:448:ASP:OD2	1.96	0.48
1:E:279:ILE:HD13	1:E:279:ILE:N	2.28	0.48
1:E:552:TRP:HA	1:E:555:GLN:HG2	1.94	0.48
1:B:354:SER:OG	1:B:355:SER:N	2.47	0.48
1:A:636:ALA:O	1:A:640:LYS:HA	2.12	0.48
1:B:223:LYS:HD3	1:B:224:SER:H	1.76	0.48
1:D:210:PHE:HZ	1:D:221:ASN:OD1	1.97	0.48
1:D:217:LYS:CG	1:D:236:GLU:HG3	2.44	0.48
1:F:414:LYS:O	1:F:417:GLY:N	2.39	0.48
1:B:629:ASN:HB3	1:B:632:TYR:CD1	2.49	0.48
1:E:275:GLY:CA	1:E:278:LYS:HG3	2.37	0.48
1:E:755:ARG:O	1:E:756:ILE:C	2.51	0.48
1:F:540:ARG:CZ	1:F:627:TYR:CE1	2.97	0.48
1:B:540:ARG:CZ	1:B:627:TYR:CE1	2.97	0.48
2:T:117:THR:CG2	2:T:120:GLU:HB2	2.42	0.48
1:A:334:LEU:H	1:A:334:LEU:CD1	2.26	0.48
1:E:122:GLU:CG	1:E:147:ARG:HB2	2.43	0.48
1:A:326:ILE:CG2	1:A:328:PHE:CE1	2.97	0.48
1:F:636:ALA:O	1:F:640:LYS:HA	2.13	0.48
1:B:686:ASP:O	1:B:689:ALA:HB3	2.13	0.48
1:E:293:ILE:HD11	1:E:617:LYS:HD3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:611:THR:O	1:C:615:ILE:HG13	2.13	0.48
1:B:217:LYS:HB2	1:B:236:GLU:HG3	1.93	0.48
1:F:666:ASN:O	1:F:670:ILE:HG13	2.13	0.48
1:A:764:LEU:O	1:A:766:HIS:N	2.46	0.48
1:A:338:LEU:HD21	1:A:409:ARG:NE	2.29	0.48
1:A:409:ARG:HD2	1:A:413:LEU:HD21	1.95	0.48
1:A:414:LYS:O	1:A:417:GLY:N	2.40	0.48
1:F:565:LYS:C	1:F:567:THR:H	2.17	0.48
1:F:715:GLU:OE1	1:F:767:GLN:NE2	2.47	0.48
1:D:338:LEU:HD21	1:D:409:ARG:NE	2.29	0.48
1:D:486:LYS:HE3	1:D:570:THR:O	2.14	0.48
1:A:602:PHE:N	1:A:602:PHE:HD2	2.11	0.48
1:F:324:THR:CB	1:F:499:PRO:HA	2.41	0.48
1:A:319:ALA:O	1:A:323:ASN:HA	2.14	0.48
1:B:322:LEU:HD13	1:B:556:MET:CE	2.44	0.48
1:F:391:ILE:HG23	1:F:398:ILE:O	2.14	0.48
1:D:501:LEU:CD2	2:R:112:LEU:HD21	2.43	0.48
1:C:519:THR:OG1	1:C:520:PRO:HD2	2.13	0.48
1:D:300:LYS:O	1:D:303:LYS:HB2	2.14	0.48
1:C:636:ALA:O	1:C:640:LYS:HA	2.13	0.48
1:D:472:ARG:HB3	1:D:472:ARG:NH1	2.29	0.48
1:B:688:PHE:O	1:B:689:ALA:C	2.52	0.48
1:C:208:LEU:HD12	1:C:208:LEU:H	1.79	0.48
2:O:101:SER:OG	2:O:104:GLU:HG2	2.13	0.48
1:B:730:ASN:O	1:B:732:ILE:N	2.46	0.48
1:A:306:GLY:O	1:A:336:THR:HG23	2.14	0.48
1:D:635:ILE:CD1	1:D:635:ILE:H	2.15	0.48
2:T:13:LYS:HZ1	2:T:65:PHE:CB	2.26	0.48
2:P:12:PHE:HE1	2:P:72:MET:CE	2.26	0.48
1:D:271:LEU:HD13	1:D:276:PHE:HE2	1.79	0.48
1:F:338:LEU:HD21	1:F:409:ARG:NE	2.29	0.48
1:B:495:PHE:O	1:B:581:GLN:HG2	2.14	0.48
1:B:271:LEU:HD13	1:B:276:PHE:HE2	1.79	0.48
1:E:327:LEU:HG	1:E:595:ILE:HG12	1.96	0.48
1:F:279:ILE:N	1:F:279:ILE:HD13	2.28	0.48
1:D:552:TRP:HA	1:D:555:GLN:HG2	1.94	0.48
2:T:120:GLU:HA	2:T:123:GLN:HB2	1.95	0.48
1:E:431:LYS:O	1:E:432:TYR:HD2	1.97	0.48
1:E:257:LEU:O	1:E:261:ALA:O	2.32	0.48
1:A:300:LYS:O	1:A:303:LYS:HB2	2.14	0.48
1:A:690:LYS:HD3	1:A:741:ILE:HG23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:616:GLU:HA	1:E:620:THR:HB	1.95	0.48
1:A:472:ARG:NH1	1:A:472:ARG:HB3	2.28	0.48
1:A:716:LYS:O	1:A:717:LYS:C	2.52	0.48
1:A:797:ILE:O	1:A:798:ASP:OD1	2.32	0.48
2:S:146:THR:O	2:S:147:ALA:C	2.51	0.48
1:A:293:ILE:HD11	1:A:617:LYS:HD3	1.95	0.48
1:A:688:PHE:O	1:A:689:ALA:C	2.51	0.48
1:A:217:LYS:HB2	1:A:236:GLU:HG3	1.94	0.48
1:A:128:MET:CE	1:A:239:HIS:NE2	2.77	0.48
1:D:131:ARG:HB2	1:D:170:TYR:CE2	2.49	0.48
1:E:210:PHE:HZ	1:E:221:ASN:OD1	1.97	0.48
1:E:743:PRO:O	1:E:746:LYS:N	2.47	0.48
2:Q:11:GLU:C	2:Q:13:LYS:H	2.17	0.48
2:R:11:GLU:C	2:R:13:LYS:H	2.17	0.48
1:A:271:LEU:HD13	1:A:276:PHE:HE2	1.78	0.48
1:E:495:PHE:O	1:E:581:GLN:HG2	2.14	0.48
1:D:323:ASN:HD22	1:D:598:PRO:HB3	1.79	0.48
1:B:323:ASN:HD22	1:B:598:PRO:HB3	1.79	0.48
2:R:120:GLU:HA	2:R:123:GLN:HB2	1.96	0.48
1:D:616:GLU:HA	1:D:620:THR:HB	1.95	0.48
1:B:519:THR:OG1	1:B:520:PRO:HD2	2.14	0.48
1:F:616:GLU:HA	1:F:620:THR:HB	1.95	0.48
1:F:593:ILE:C	1:F:604:LEU:HD12	2.34	0.48
1:A:248:TYR:C	1:A:248:TYR:HD2	2.16	0.48
1:B:437:SER:O	1:B:439:ASN:N	2.43	0.48
1:C:256:VAL:O	1:C:260:TYR:HB2	2.14	0.48
1:C:197:LYS:O	1:C:197:LYS:HD2	2.14	0.47
1:C:90:PRO:HG2	1:C:93:VAL:CG1	2.44	0.47
1:F:252:ASP:CG	1:F:253:HIS:N	2.67	0.47
1:A:164:GLU:O	1:A:166:SER:N	2.47	0.47
1:E:164:GLU:O	1:E:166:SER:N	2.47	0.47
1:B:254:ARG:HD2	1:B:254:ARG:N	2.26	0.47
1:D:743:PRO:O	1:D:746:LYS:N	2.47	0.47
2:R:9:ILE:HD12	2:R:69:LEU:CD2	2.43	0.47
1:C:431:LYS:O	1:C:432:TYR:HD2	1.97	0.47
2:O:8:GLN:O	2:O:12:PHE:HD2	1.97	0.47
1:F:495:PHE:O	1:F:581:GLN:HG2	2.14	0.47
1:C:495:PHE:O	1:C:581:GLN:HG2	2.13	0.47
1:C:552:TRP:HA	1:C:555:GLN:HG2	1.95	0.47
1:E:529:VAL:O	1:E:532:LEU:HB2	2.14	0.47
1:C:148:GLU:HG3	1:C:149:THR:H	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:391:ILE:HG23	1:B:398:ILE:O	2.14	0.47
1:A:529:VAL:O	1:A:532:LEU:HB2	2.13	0.47
1:B:593:ILE:C	1:B:604:LEU:HD12	2.34	0.47
1:F:619:ILE:O	1:F:620:THR:C	2.53	0.47
1:D:122:GLU:CG	1:D:147:ARG:HB2	2.43	0.47
1:C:472:ARG:NH1	1:C:472:ARG:HB3	2.29	0.47
2:P:109:MET:HG3	2:P:116:LEU:CD1	2.44	0.47
2:S:101:SER:OG	2:S:104:GLU:HG2	2.13	0.47
1:F:208:LEU:H	1:F:208:LEU:HD12	1.79	0.47
1:A:169:VAL:O	1:A:172:GLU:HB2	2.14	0.47
1:B:199:LEU:HG	1:B:225:ILE:O	2.14	0.47
1:D:169:VAL:O	1:D:172:GLU:HB2	2.15	0.47
1:D:90:PRO:HG2	1:D:93:VAL:CG1	2.44	0.47
1:F:184:LYS:O	1:F:185:ASP:C	2.51	0.47
2:P:13:LYS:HA	2:P:16:PHE:HB3	1.95	0.47
1:E:565:LYS:C	1:E:567:THR:H	2.17	0.47
1:C:432:TYR:CD2	1:C:447:SER:HA	2.49	0.47
1:F:433:TYR:HE1	1:F:448:ASP:OD2	1.97	0.47
2:S:58:ASP:HB3	2:S:62:THR:CG2	2.44	0.47
1:F:665:LYS:HE2	2:T:11:GLU:OE2	2.14	0.47
2:T:13:LYS:HA	2:T:16:PHE:HB3	1.96	0.47
2:O:12:PHE:HE1	2:O:72:MET:CE	2.26	0.47
1:B:99:GLU:C	1:B:101:GLY:N	2.67	0.47
1:E:409:ARG:CZ	1:E:413:LEU:HD21	2.44	0.47
1:E:486:LYS:HE3	1:E:570:THR:O	2.13	0.47
1:F:79:ILE:O	1:F:81:GLN:N	2.47	0.47
2:S:117:THR:CG2	2:S:120:GLU:HB2	2.42	0.47
2:O:120:GLU:HA	2:O:123:GLN:HB2	1.95	0.47
1:E:431:LYS:O	1:E:432:TYR:CD2	2.67	0.47
1:E:99:GLU:C	1:E:101:GLY:N	2.68	0.47
1:A:472:ARG:HB3	1:A:472:ARG:HH11	1.79	0.47
1:E:437:SER:O	1:E:439:ASN:N	2.43	0.47
2:R:146:THR:O	2:R:147:ALA:C	2.51	0.47
1:A:197:LYS:O	1:A:197:LYS:HD2	2.14	0.47
1:D:173:ILE:O	1:D:174:GLY:C	2.52	0.47
1:D:184:LYS:HZ2	1:D:191:GLU:HG3	1.79	0.47
1:F:197:LYS:HD2	1:F:197:LYS:O	2.15	0.47
1:B:690:LYS:HD3	1:B:741:ILE:HG23	1.96	0.47
1:D:565:LYS:C	1:D:567:THR:H	2.17	0.47
1:A:565:LYS:C	1:A:567:THR:H	2.16	0.47
1:E:306:GLY:O	1:E:336:THR:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:565:LYS:C	1:B:567:THR:H	2.17	0.47
1:F:431:LYS:O	1:F:432:TYR:CD2	2.67	0.47
1:E:665:LYS:HE2	2:S:11:GLU:OE2	2.14	0.47
1:A:431:LYS:O	1:A:432:TYR:HD2	1.98	0.47
1:E:338:LEU:HD21	1:E:409:ARG:NE	2.29	0.47
1:C:325:TYR:CD1	1:C:598:PRO:HD3	2.50	0.47
1:A:499:PRO:CG	1:A:504:ILE:HD11	2.43	0.47
1:E:300:LYS:O	1:E:303:LYS:HB2	2.14	0.47
1:F:690:LYS:HD2	1:F:741:ILE:CG2	2.43	0.47
2:T:76:MET:HA	2:T:79:THR:HG22	1.95	0.47
1:E:706:ASN:O	2:S:130:ILE:HG23	2.14	0.47
1:D:437:SER:O	1:D:439:ASN:N	2.42	0.47
1:D:173:ILE:HG23	1:D:174:GLY:H	1.79	0.47
1:D:238:GLN:C	1:D:240:ALA:N	2.68	0.47
1:E:88:LYS:NZ	1:E:172:GLU:OE1	2.48	0.47
1:C:154:ILE:HG13	1:C:171:TYR:CD1	2.49	0.47
1:C:173:ILE:HD12	1:C:243:LEU:HD21	1.96	0.47
1:A:254:ARG:HD2	1:A:254:ARG:N	2.27	0.47
1:E:730:ASN:O	1:E:732:ILE:N	2.47	0.47
1:D:431:LYS:O	1:D:432:TYR:HD2	1.97	0.47
1:F:729:TYR:HB2	1:F:756:ILE:HG21	1.96	0.47
2:Q:30:LYS:H	2:Q:30:LYS:CD	2.13	0.47
1:A:433:TYR:HE1	1:A:448:ASP:OD2	1.97	0.47
1:E:764:LEU:C	1:E:766:HIS:H	2.18	0.47
1:D:504:ILE:HD12	1:D:504:ILE:N	2.29	0.47
1:A:391:ILE:HG23	1:A:398:ILE:O	2.14	0.47
1:B:339:ILE:O	1:B:342:GLY:N	2.48	0.47
1:E:354:SER:OG	1:E:355:SER:N	2.47	0.47
1:D:690:LYS:HD2	1:D:741:ILE:CG2	2.44	0.47
1:C:76:LEU:HD22	1:C:76:LEU:H	1.79	0.47
1:D:472:ARG:HB3	1:D:472:ARG:HH11	1.79	0.47
2:O:76:MET:HA	2:O:79:THR:HG22	1.96	0.47
2:Q:101:SER:OG	2:Q:104:GLU:HG2	2.14	0.47
2:T:27:ILE:HD12	2:T:32:LEU:HA	1.96	0.47
2:S:109:MET:HG3	2:S:116:LEU:CD1	2.44	0.47
1:A:102:GLY:C	1:A:103:GLU:HG3	2.35	0.47
1:B:173:ILE:HG23	1:B:174:GLY:H	1.78	0.47
1:C:115:LYS:HB3	1:C:115:LYS:HZ3	1.78	0.47
1:C:210:PHE:HZ	1:C:221:ASN:OD1	1.97	0.47
1:A:339:ILE:O	1:A:342:GLY:N	2.48	0.47
1:A:486:LYS:HE3	1:A:570:THR:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:311:HIS:CD2	1:E:564:VAL:HB	2.49	0.47
1:F:431:LYS:O	1:F:432:TYR:HD2	1.97	0.47
1:F:409:ARG:CZ	1:F:413:LEU:HD21	2.44	0.47
1:A:633:ASN:O	1:A:642:TYR:HE1	1.96	0.47
1:D:555:GLN:HG3	1:D:556:MET:N	2.29	0.47
1:A:555:GLN:HG3	1:A:556:MET:N	2.29	0.47
2:O:117:THR:CG2	2:O:120:GLU:HB2	2.42	0.47
1:B:610:MET:O	1:B:614:PHE:N	2.43	0.47
1:F:519:THR:OG1	1:F:520:PRO:HD2	2.14	0.47
1:D:102:GLY:C	1:D:103:GLU:HG3	2.34	0.47
1:C:295:VAL:HG12	1:C:605:THR:HA	1.95	0.47
1:D:295:VAL:HG12	1:D:605:THR:HA	1.96	0.47
1:E:686:ASP:O	1:E:689:ALA:HB3	2.14	0.47
2:T:138:TYR:O	2:T:142:VAL:HG23	2.14	0.47
1:A:173:ILE:HD12	1:A:243:LEU:HD21	1.97	0.47
1:A:181:ILE:HG12	1:A:181:ILE:O	2.15	0.47
1:E:220:LEU:HG	1:E:223:LYS:HB2	1.96	0.47
1:F:178:SER:OG	1:F:179:LEU:N	2.48	0.47
1:F:88:LYS:NZ	1:F:172:GLU:OE1	2.47	0.47
1:B:311:HIS:CD2	1:B:564:VAL:HB	2.49	0.47
1:D:447:SER:OG	1:D:448:ASP:N	2.45	0.47
2:T:30:LYS:H	2:T:30:LYS:CD	2.12	0.47
1:E:629:ASN:HB3	1:E:632:TYR:CD1	2.50	0.47
1:F:325:TYR:CD1	1:F:598:PRO:HD3	2.49	0.47
1:F:501:LEU:HD22	2:T:112:LEU:HD21	1.96	0.47
2:R:49:GLN:HA	2:R:52:ILE:HG22	1.96	0.47
2:Q:117:THR:CG2	2:Q:120:GLU:HB2	2.42	0.47
1:E:445:ARG:HG2	1:E:471:TRP:CZ3	2.49	0.47
1:F:472:ARG:HH11	1:F:472:ARG:HB3	1.80	0.47
1:D:797:ILE:O	1:D:798:ASP:OD1	2.32	0.47
2:O:109:MET:HG3	2:O:116:LEU:CD1	2.45	0.47
2:T:109:MET:HG3	2:T:116:LEU:CD1	2.45	0.47
1:A:561:ASN:OD1	1:A:574:VAL:N	2.41	0.47
1:A:225:ILE:HG12	1:A:229:PHE:CE2	2.48	0.47
1:B:90:PRO:HG2	1:B:93:VAL:CG1	2.44	0.47
1:D:189:ASP:O	1:D:191:GLU:HG2	2.15	0.47
1:E:225:ILE:HG23	1:E:229:PHE:CE2	2.49	0.47
1:E:102:GLY:C	1:E:103:GLU:HG3	2.35	0.47
1:E:169:VAL:O	1:E:172:GLU:HB2	2.14	0.47
1:C:181:ILE:O	1:C:181:ILE:HG12	2.15	0.47
1:C:220:LEU:HG	1:C:223:LYS:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:164:GLU:O	1:F:166:SER:N	2.47	0.47
1:F:220:LEU:HG	1:F:223:LYS:HB2	1.97	0.47
1:F:173:ILE:O	1:F:174:GLY:C	2.52	0.47
1:F:196:ILE:O	1:F:199:LEU:HB2	2.14	0.47
1:D:164:GLU:HG2	1:D:166:SER:HB3	1.97	0.47
1:E:677:GLY:HA2	1:E:745:TYR:OH	2.15	0.47
1:A:743:PRO:O	1:A:746:LYS:N	2.48	0.47
2:P:13:LYS:HZ1	2:P:65:PHE:CB	2.27	0.47
1:B:756:ILE:O	1:B:760:VAL:HG23	2.15	0.47
2:O:13:LYS:HA	2:O:16:PHE:HB3	1.96	0.47
1:B:306:GLY:O	1:B:336:THR:HG23	2.14	0.47
1:D:729:TYR:HB2	1:D:756:ILE:HG21	1.96	0.47
1:B:327:LEU:HG	1:B:595:ILE:HG12	1.96	0.47
1:D:409:ARG:CZ	1:D:413:LEU:HD21	2.44	0.47
1:A:495:PHE:O	1:A:581:GLN:HG2	2.15	0.47
1:E:79:ILE:O	1:E:81:GLN:N	2.48	0.47
1:C:597:ASN:O	1:C:599:GLU:N	2.47	0.47
1:F:597:ASN:O	1:F:599:GLU:N	2.46	0.47
1:A:497:LEU:CD1	1:A:556:MET:HG2	2.38	0.47
2:Q:49:GLN:HA	2:Q:52:ILE:HG22	1.96	0.47
2:Q:3:GLN:N	2:Q:77:LYS:HD3	2.30	0.47
1:A:442:TYR:HD1	1:A:455:TYR:CD1	2.26	0.47
1:B:431:LYS:O	1:B:432:TYR:HD2	1.97	0.47
1:E:334:LEU:H	1:E:334:LEU:CD1	2.27	0.47
1:F:724:ARG:HG3	1:F:724:ARG:NH1	2.27	0.47
1:B:621:GLY:HA2	2:P:94:LYS:NZ	2.29	0.47
1:D:636:ALA:O	1:D:640:LYS:N	2.47	0.47
1:F:636:ALA:O	1:F:640:LYS:N	2.48	0.47
1:C:472:ARG:HH11	1:C:472:ARG:HB3	1.79	0.47
1:B:472:ARG:HB3	1:B:472:ARG:NH1	2.29	0.47
1:E:797:ILE:O	1:E:798:ASP:OD1	2.33	0.47
1:B:636:ALA:O	1:B:640:LYS:N	2.47	0.47
1:F:686:ASP:O	1:F:689:ALA:HB3	2.14	0.47
2:S:27:ILE:HD12	2:S:32:LEU:HA	1.97	0.47
2:Q:138:TYR:CZ	2:Q:142:VAL:HG21	2.50	0.47
1:C:716:LYS:O	1:C:717:LYS:C	2.52	0.47
2:R:138:TYR:CZ	2:R:142:VAL:HG21	2.50	0.47
1:A:208:LEU:HD12	1:A:208:LEU:H	1.80	0.47
1:A:130:SER:O	1:A:132:GLY:O	2.33	0.47
1:B:152:LEU:CD2	1:B:154:ILE:HG12	2.45	0.47
1:D:181:ILE:HG12	1:D:181:ILE:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:223:LYS:HD3	1:E:224:SER:H	1.77	0.47
1:C:199:LEU:HG	1:C:225:ILE:O	2.14	0.47
1:B:743:PRO:O	1:B:746:LYS:N	2.48	0.47
2:P:11:GLU:C	2:P:13:LYS:H	2.18	0.47
2:O:11:GLU:C	2:O:13:LYS:H	2.18	0.47
1:A:409:ARG:CZ	1:A:413:LEU:HD21	2.43	0.47
2:Q:25:GLY:HA3	2:Q:65:PHE:CZ	2.50	0.47
1:D:432:TYR:CD2	1:D:447:SER:HA	2.50	0.47
1:E:327:LEU:HG	1:E:595:ILE:HG23	1.97	0.47
1:F:275:GLY:CA	1:F:278:LYS:HG3	2.37	0.47
1:D:529:VAL:O	1:D:532:LEU:HB2	2.14	0.47
1:F:102:GLY:HA2	1:F:150:PRO:O	2.15	0.47
1:B:523:LEU:HD22	2:P:127:GLU:HG2	1.97	0.47
2:P:27:ILE:HD12	2:P:32:LEU:HA	1.97	0.47
1:B:208:LEU:H	1:B:208:LEU:HD12	1.80	0.47
1:A:184:LYS:HE2	1:A:193:LEU:HD12	1.97	0.47
1:A:217:LYS:CG	1:A:236:GLU:HG3	2.44	0.47
1:B:181:ILE:O	1:B:181:ILE:HG12	2.14	0.47
1:B:238:GLN:C	1:B:240:ALA:N	2.68	0.47
1:D:173:ILE:HD12	1:D:243:LEU:HD21	1.96	0.47
1:E:181:ILE:O	1:E:181:ILE:HG12	2.15	0.47
1:E:238:GLN:C	1:E:240:ALA:N	2.68	0.47
1:C:196:ILE:O	1:C:199:LEU:HB2	2.14	0.47
1:A:666:ASN:O	1:A:670:ILE:HG13	2.13	0.47
2:S:13:LYS:HA	2:S:16:PHE:HB3	1.95	0.47
1:F:327:LEU:HG	1:F:595:ILE:HG23	1.97	0.47
1:D:325:TYR:CD1	1:D:598:PRO:HD3	2.50	0.47
2:P:114:GLU:OE2	2:P:114:GLU:HA	2.15	0.47
2:Q:111:ASN:C	2:Q:113:GLY:H	2.18	0.47
2:S:114:GLU:HA	2:S:114:GLU:OE2	2.15	0.47
1:F:501:LEU:CD2	2:T:112:LEU:HD21	2.45	0.47
1:B:368:GLN:OE1	1:B:368:GLN:HA	2.15	0.47
1:D:442:TYR:HD1	1:D:455:TYR:CD1	2.26	0.47
1:C:501:LEU:HD22	2:Q:112:LEU:HD21	1.97	0.47
1:A:332:ASN:OD1	1:A:334:LEU:N	2.46	0.47
1:F:735:VAL:O	1:F:738:SER:CB	2.63	0.47
1:C:636:ALA:O	1:C:640:LYS:N	2.48	0.47
2:R:109:MET:HG3	2:R:116:LEU:CD1	2.44	0.47
1:C:514:ASP:O	1:C:516:VAL:N	2.48	0.47
1:B:197:LYS:HD2	1:B:197:LYS:O	2.14	0.47
1:D:176:GLY:O	1:D:180:ASP:OD1	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:217:LYS:CG	1:C:236:GLU:HG3	2.44	0.47
2:S:9:ILE:HD12	2:S:69:LEU:CD2	2.45	0.47
1:A:730:ASN:O	1:A:732:ILE:N	2.47	0.47
1:D:431:LYS:O	1:D:432:TYR:CD2	2.68	0.47
1:D:657:ILE:HD11	1:D:701:LEU:HD23	1.97	0.47
2:R:58:ASP:C	2:R:60:ASN:N	2.68	0.47
2:S:8:GLN:O	2:S:12:PHE:HD2	1.98	0.47
1:B:327:LEU:HG	1:B:595:ILE:HG23	1.97	0.47
1:F:629:ASN:HD22	1:F:630:ARG:N	2.13	0.47
1:D:633:ASN:O	1:D:642:TYR:HE1	1.98	0.47
2:Q:114:GLU:HA	2:Q:114:GLU:OE2	2.15	0.47
1:E:504:ILE:HD12	1:E:504:ILE:N	2.30	0.47
1:D:619:ILE:O	1:D:620:THR:C	2.53	0.47
1:C:619:ILE:O	1:C:620:THR:C	2.52	0.47
1:C:248:TYR:C	1:C:248:TYR:HD2	2.16	0.47
1:A:686:ASP:O	1:A:689:ALA:HB3	2.14	0.47
1:F:256:VAL:O	1:F:260:TYR:HB2	2.15	0.47
2:T:146:THR:O	2:T:147:ALA:C	2.53	0.47
2:Q:109:MET:HG3	2:Q:116:LEU:CD1	2.45	0.47
1:E:208:LEU:HD12	1:E:208:LEU:H	1.79	0.47
1:B:225:ILE:HG12	1:B:229:PHE:CE2	2.49	0.46
1:C:164:GLU:O	1:C:166:SER:N	2.48	0.46
1:F:173:ILE:HG23	1:F:174:GLY:H	1.79	0.46
1:F:263:ASP:O	1:F:264:MET:C	2.54	0.46
2:R:13:LYS:HA	2:R:16:PHE:HB3	1.95	0.46
1:E:635:ILE:CD1	1:E:635:ILE:H	2.16	0.46
1:E:478:ALA:CB	1:E:486:LYS:O	2.59	0.46
1:C:409:ARG:CZ	1:C:413:LEU:HD21	2.44	0.46
1:F:327:LEU:HG	1:F:595:ILE:HG12	1.96	0.46
2:R:114:GLU:HA	2:R:114:GLU:OE2	2.15	0.46
1:C:529:VAL:O	1:C:532:LEU:HB2	2.14	0.46
1:F:529:VAL:O	1:F:532:LEU:HB2	2.15	0.46
1:A:323:ASN:HD22	1:A:598:PRO:HB3	1.79	0.46
1:B:319:ALA:O	1:B:323:ASN:HA	2.15	0.46
1:B:504:ILE:HD12	1:B:504:ILE:N	2.30	0.46
2:S:49:GLN:HA	2:S:52:ILE:HG22	1.96	0.46
2:P:138:TYR:CZ	2:P:142:VAL:HG21	2.50	0.46
1:B:285:LYS:C	1:B:287:GLY:H	2.18	0.46
2:O:27:ILE:HD12	2:O:32:LEU:HA	1.97	0.46
1:A:152:LEU:CD2	1:A:154:ILE:HG12	2.45	0.46
1:A:88:LYS:NZ	1:A:172:GLU:OE1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:199:LEU:HG	1:A:225:ILE:O	2.14	0.46
1:A:225:ILE:HG23	1:A:229:PHE:CE2	2.50	0.46
1:E:197:LYS:O	1:E:197:LYS:HD2	2.14	0.46
2:P:58:ASP:C	2:P:60:ASN:N	2.69	0.46
1:C:445:ARG:HG2	1:C:471:TRP:CZ3	2.50	0.46
2:T:58:ASP:C	2:T:60:ASN:N	2.68	0.46
1:C:338:LEU:HD21	1:C:409:ARG:NE	2.31	0.46
1:D:327:LEU:HG	1:D:595:ILE:HG12	1.97	0.46
1:C:555:GLN:HG3	1:C:556:MET:N	2.30	0.46
1:B:497:LEU:CD1	1:B:556:MET:HG2	2.40	0.46
2:T:49:GLN:HA	2:T:52:ILE:HG22	1.97	0.46
1:C:442:TYR:HD1	1:C:455:TYR:CD1	2.26	0.46
1:F:102:GLY:C	1:F:103:GLU:HG3	2.35	0.46
1:A:368:GLN:HA	1:A:368:GLN:OE1	2.14	0.46
1:B:300:LYS:O	1:B:303:LYS:HB2	2.15	0.46
1:C:300:LYS:O	1:C:303:LYS:HB2	2.15	0.46
1:A:636:ALA:O	1:A:640:LYS:N	2.47	0.46
1:E:472:ARG:HB3	1:E:472:ARG:NH1	2.30	0.46
1:D:185:ASP:O	1:D:190:PRO:CD	2.63	0.46
1:E:90:PRO:O	1:E:91:LYS:C	2.54	0.46
1:C:186:LYS:HB2	1:C:190:PRO:CD	2.44	0.46
1:C:243:LEU:HA	1:C:246:SER:OG	2.16	0.46
1:F:90:PRO:O	1:F:91:LYS:C	2.54	0.46
2:R:6:GLU:O	2:R:9:ILE:HB	2.15	0.46
1:F:339:ILE:O	1:F:342:GLY:N	2.48	0.46
1:F:446:ILE:HA	1:F:453:VAL:HA	1.97	0.46
1:A:431:LYS:O	1:A:432:TYR:CD2	2.68	0.46
1:F:759:GLN:NE2	1:F:759:GLN:HA	2.21	0.46
1:E:271:LEU:HD13	1:E:276:PHE:HE2	1.79	0.46
1:A:581:GLN:HE21	1:A:629:ASN:H	1.61	0.46
1:D:319:ALA:O	1:D:323:ASN:HA	2.15	0.46
1:D:324:THR:CB	1:D:499:PRO:HA	2.41	0.46
1:B:505:LYS:C	1:B:507:GLN:N	2.69	0.46
2:T:111:ASN:C	2:T:113:GLY:H	2.18	0.46
1:C:368:GLN:OE1	1:C:368:GLN:HA	2.14	0.46
1:A:620:THR:HG22	1:A:621:GLY:N	2.31	0.46
1:C:593:ILE:C	1:C:604:LEU:HD12	2.36	0.46
1:B:797:ILE:O	1:B:798:ASP:OD1	2.32	0.46
2:R:101:SER:OG	2:R:104:GLU:HG2	2.15	0.46
1:D:514:ASP:O	1:D:516:VAL:N	2.48	0.46
1:D:256:VAL:O	1:D:260:TYR:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:115:LYS:HZ1	1:A:117:LEU:HB2	1.80	0.46
1:B:173:ILE:HD12	1:B:243:LEU:HD21	1.98	0.46
1:D:131:ARG:HB2	1:D:170:TYR:CZ	2.51	0.46
1:E:196:ILE:O	1:E:199:LEU:HB2	2.14	0.46
1:C:743:PRO:O	1:C:746:LYS:N	2.48	0.46
1:D:308:VAL:O	1:D:311:HIS:N	2.42	0.46
2:Q:13:LYS:C	2:Q:15:ALA:N	2.68	0.46
1:B:602:PHE:N	1:B:602:PHE:HD2	2.11	0.46
1:B:597:ASN:O	1:B:599:GLU:N	2.48	0.46
2:R:117:THR:CG2	2:R:120:GLU:HB2	2.42	0.46
1:B:431:LYS:O	1:B:432:TYR:CD2	2.68	0.46
1:A:616:GLU:HA	1:A:620:THR:HB	1.96	0.46
1:F:797:ILE:O	1:F:798:ASP:OD1	2.32	0.46
2:S:138:TYR:O	2:S:142:VAL:HG23	2.16	0.46
1:F:514:ASP:O	1:F:516:VAL:N	2.48	0.46
1:B:144:GLU:HG2	1:B:177:ILE:CD1	2.44	0.46
1:B:169:VAL:O	1:B:172:GLU:HB2	2.16	0.46
1:B:220:LEU:HG	1:B:223:LYS:HB2	1.97	0.46
1:F:164:GLU:HG2	1:F:166:SER:HB3	1.98	0.46
1:F:107:THR:HG21	1:F:115:LYS:CD	2.38	0.46
1:A:164:GLU:HG2	1:A:166:SER:HB3	1.98	0.46
1:E:161:ILE:HG21	1:E:168:GLU:HB2	1.96	0.46
1:D:730:ASN:O	1:D:732:ILE:N	2.48	0.46
1:A:756:ILE:O	1:A:760:VAL:HG23	2.16	0.46
1:A:567:THR:HG23	1:A:568:GLY:N	2.30	0.46
1:F:445:ARG:HG2	1:F:471:TRP:CZ3	2.50	0.46
2:S:58:ASP:O	2:S:60:ASN:N	2.47	0.46
2:R:55:VAL:CG2	2:R:67:GLU:OE1	2.63	0.46
2:R:8:GLN:O	2:R:12:PHE:HD2	1.98	0.46
2:O:6:GLU:O	2:O:9:ILE:HB	2.16	0.46
1:B:338:LEU:HD21	1:B:409:ARG:NE	2.30	0.46
1:B:79:ILE:O	1:B:81:GLN:N	2.48	0.46
1:E:505:LYS:C	1:E:507:GLN:N	2.69	0.46
1:E:555:GLN:HG3	1:E:556:MET:N	2.30	0.46
1:A:443:GLU:HG3	1:A:458:LYS:HE3	1.98	0.46
1:E:593:ILE:C	1:E:604:LEU:HD12	2.35	0.46
1:A:621:GLY:HA2	2:O:94:LYS:HZ3	1.80	0.46
1:D:326:ILE:CG2	1:D:328:PHE:CE1	2.99	0.46
1:F:523:LEU:HD22	2:T:127:GLU:HG2	1.97	0.46
1:A:296:LEU:CD2	1:A:296:LEU:N	2.38	0.46
1:F:173:ILE:HD12	1:F:243:LEU:HD21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:161:ILE:HG21	1:B:168:GLU:HB2	1.96	0.46
1:F:730:ASN:O	1:F:732:ILE:N	2.49	0.46
1:F:140:ARG:NH1	1:F:141:PHE:HE1	2.14	0.46
1:A:311:HIS:CD2	1:A:564:VAL:HB	2.51	0.46
1:C:729:TYR:HB2	1:C:756:ILE:HG21	1.96	0.46
1:E:308:VAL:O	1:E:311:HIS:N	2.43	0.46
1:E:339:ILE:O	1:E:342:GLY:N	2.48	0.46
2:S:11:GLU:C	2:S:13:LYS:H	2.19	0.46
2:S:13:LYS:HZ1	2:S:65:PHE:CB	2.27	0.46
2:T:13:LYS:C	2:T:15:ALA:N	2.68	0.46
1:D:665:LYS:HE2	2:R:11:GLU:OE2	2.16	0.46
1:C:140:ARG:NH1	1:C:141:PHE:HE1	2.14	0.46
1:B:414:LYS:HD3	1:B:414:LYS:C	2.36	0.46
1:E:715:GLU:OE1	1:E:767:GLN:NE2	2.47	0.46
1:A:628:PHE:CE2	2:O:90:ARG:HD3	2.34	0.46
1:C:384:ASN:C	1:C:386:GLU:N	2.69	0.46
1:C:391:ILE:HG23	1:C:398:ILE:O	2.15	0.46
1:B:443:GLU:HG3	1:B:458:LYS:HE3	1.97	0.46
1:D:620:THR:HG22	1:D:621:GLY:N	2.31	0.46
1:B:609:GLU:O	1:B:613:ARG:N	2.46	0.46
1:F:300:LYS:O	1:F:303:LYS:HB2	2.15	0.46
1:C:690:LYS:HD2	1:C:741:ILE:CG2	2.45	0.46
1:E:636:ALA:O	1:E:640:LYS:N	2.47	0.46
1:E:326:ILE:CG2	1:E:328:PHE:CE1	2.99	0.46
1:F:285:LYS:C	1:F:287:GLY:H	2.19	0.46
1:E:185:ASP:O	1:E:190:PRO:HG3	2.16	0.46
1:E:140:ARG:NH1	1:E:141:PHE:HE1	2.14	0.46
1:F:169:VAL:O	1:F:172:GLU:HB2	2.15	0.46
1:D:133:GLU:OE1	1:D:134:LYS:N	2.49	0.46
1:F:311:HIS:CD2	1:F:564:VAL:HB	2.51	0.46
1:C:505:LYS:C	1:C:507:GLN:N	2.68	0.46
1:B:552:TRP:HA	1:B:555:GLN:HG2	1.96	0.46
1:E:319:ALA:O	1:E:323:ASN:HA	2.15	0.46
2:P:49:GLN:HA	2:P:52:ILE:HG22	1.96	0.46
1:C:443:GLU:HG3	1:C:458:LYS:HE3	1.97	0.46
1:B:123:GLU:HG2	1:B:124:GLU:H	1.80	0.46
1:D:334:LEU:CD1	1:D:334:LEU:H	2.28	0.46
1:D:501:LEU:HB2	1:D:623:ASP:O	2.16	0.46
1:B:619:ILE:O	1:B:620:THR:C	2.54	0.46
1:C:437:SER:O	1:C:439:ASN:N	2.42	0.46
1:D:208:LEU:H	1:D:208:LEU:HD12	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:100:LEU:CD1	1:B:182:ILE:HG21	2.45	0.46
1:E:263:ASP:O	1:E:264:MET:C	2.54	0.46
1:C:161:ILE:HG23	1:C:168:GLU:HB2	1.97	0.46
1:C:89:ILE:HG22	1:C:90:PRO:HD2	1.97	0.46
1:E:743:PRO:HA	1:E:746:LYS:CB	2.46	0.46
1:F:743:PRO:O	1:F:746:LYS:N	2.48	0.46
1:F:744:GLU:H	1:F:744:GLU:CD	2.19	0.46
2:P:58:ASP:HB3	2:P:62:THR:CG2	2.44	0.46
1:D:140:ARG:NH1	1:D:141:PHE:HE1	2.14	0.46
1:F:306:GLY:O	1:F:336:THR:HG23	2.14	0.46
1:C:431:LYS:O	1:C:432:TYR:CD2	2.68	0.46
2:Q:97:ASN:HD22	2:Q:98:GLY:N	2.13	0.46
1:C:133:GLU:OE1	1:C:134:LYS:N	2.49	0.46
1:E:729:TYR:HB2	1:E:756:ILE:HG21	1.97	0.46
1:C:504:ILE:HD12	1:C:504:ILE:N	2.30	0.46
1:F:555:GLN:HG3	1:F:556:MET:N	2.30	0.46
1:B:505:LYS:HE3	1:B:513:TRP:CD2	2.51	0.46
2:O:49:GLN:HA	2:O:52:ILE:HG22	1.96	0.46
1:A:257:LEU:O	1:A:261:ALA:O	2.33	0.46
1:A:724:ARG:HG3	1:A:724:ARG:NH1	2.27	0.46
1:B:609:GLU:N	1:B:609:GLU:OE2	2.36	0.46
1:A:716:LYS:O	1:A:720:ILE:HG22	2.16	0.46
1:F:546:LYS:NZ	1:F:554:LYS:HE2	2.30	0.46
2:O:138:TYR:CZ	2:O:142:VAL:HG21	2.51	0.46
2:O:39:LEU:HA	2:O:39:LEU:HD23	1.84	0.46
1:B:102:GLY:C	1:B:103:GLU:HG3	2.36	0.46
1:B:185:ASP:O	1:B:190:PRO:CD	2.64	0.46
1:D:152:LEU:CD2	1:D:154:ILE:HG12	2.46	0.46
1:E:173:ILE:HD12	1:E:243:LEU:HD21	1.97	0.46
1:E:236:GLU:HA	1:E:239:HIS:HD2	1.74	0.46
1:C:189:ASP:O	1:C:190:PRO:C	2.50	0.46
1:B:140:ARG:NH1	1:B:141:PHE:HE1	2.13	0.46
1:E:133:GLU:OE1	1:E:134:LYS:N	2.49	0.46
1:B:730:ASN:C	1:B:732:ILE:N	2.70	0.46
1:D:743:PRO:HA	1:D:746:LYS:CB	2.45	0.46
2:R:25:GLY:HA3	2:R:65:PHE:CZ	2.51	0.46
1:C:323:ASN:ND2	1:C:598:PRO:CB	2.79	0.46
1:F:323:ASN:ND2	1:F:598:PRO:CB	2.79	0.46
2:O:3:GLN:N	2:O:77:LYS:NZ	2.59	0.46
1:F:236:GLU:HA	1:F:239:HIS:HD2	1.75	0.46
1:C:148:GLU:CG	1:C:149:THR:N	2.73	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:609:GLU:H	1:A:609:GLU:CD	2.19	0.46
1:F:99:GLU:C	1:F:101:GLY:N	2.69	0.46
1:C:690:LYS:HD3	1:C:741:ILE:HG23	1.97	0.46
1:B:76:LEU:CD2	1:B:76:LEU:H	2.27	0.46
2:O:73:ALA:O	2:O:75:LYS:N	2.48	0.46
1:A:238:GLN:C	1:A:240:ALA:N	2.69	0.46
1:D:220:LEU:HG	1:D:223:LYS:HB2	1.97	0.46
1:E:102:GLY:HA2	1:E:150:PRO:O	2.16	0.46
1:C:165:GLN:C	1:C:167:LYS:N	2.70	0.46
1:B:133:GLU:OE1	1:B:134:LYS:N	2.49	0.46
1:A:746:LYS:CD	1:A:750:GLN:HE21	2.29	0.46
1:A:567:THR:CG2	1:A:568:GLY:N	2.79	0.46
1:C:339:ILE:O	1:C:342:GLY:N	2.48	0.46
1:A:765:THR:HG22	1:A:769:SER:HB2	1.97	0.46
1:C:319:ALA:O	1:C:323:ASN:HA	2.15	0.46
2:T:3:GLN:N	2:T:77:LYS:HD3	2.31	0.46
1:D:735:VAL:O	1:D:738:SER:HB3	2.16	0.46
1:E:472:ARG:HB3	1:E:472:ARG:HH11	1.81	0.46
1:C:797:ILE:O	1:C:798:ASP:OD1	2.32	0.46
1:F:716:LYS:O	1:F:717:LYS:C	2.54	0.46
1:B:716:LYS:O	1:B:717:LYS:C	2.54	0.46
2:R:39:LEU:HA	2:R:39:LEU:HD23	1.86	0.46
1:A:220:LEU:HG	1:A:223:LYS:HB2	1.97	0.45
1:B:185:ASP:O	1:B:190:PRO:CG	2.64	0.45
1:D:90:PRO:O	1:D:91:LYS:C	2.53	0.45
1:E:152:LEU:CD2	1:E:154:ILE:HG12	2.46	0.45
1:E:137:PHE:O	1:E:140:ARG:HB2	2.16	0.45
2:S:25:GLY:HA3	2:S:65:PHE:CZ	2.51	0.45
1:D:756:ILE:O	1:D:760:VAL:HG23	2.16	0.45
1:E:633:ASN:O	1:E:642:TYR:HE1	1.99	0.45
1:A:327:LEU:HG	1:A:595:ILE:HG23	1.98	0.45
1:D:505:LYS:C	1:D:507:GLN:N	2.69	0.45
1:D:288:VAL:CG2	1:D:289:GLU:N	2.75	0.45
2:T:114:GLU:OE2	2:T:114:GLU:HA	2.16	0.45
1:D:500:SER:HG	1:D:502:THR:HG1	1.60	0.45
1:C:79:ILE:O	1:C:81:GLN:N	2.50	0.45
1:F:368:GLN:HA	1:F:368:GLN:OE1	2.15	0.45
1:F:443:GLU:HG3	1:F:458:LYS:HE3	1.97	0.45
1:A:609:GLU:O	1:A:613:ARG:N	2.48	0.45
1:C:99:GLU:C	1:C:101:GLY:N	2.68	0.45
1:F:326:ILE:CG2	1:F:328:PHE:CE1	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:109:MET:HG3	2:P:116:LEU:HD11	1.97	0.45
2:Q:138:TYR:CZ	2:Q:142:VAL:CG2	2.99	0.45
1:C:285:LYS:C	1:C:287:GLY:H	2.19	0.45
1:B:509:PRO:O	1:B:511:LYS:N	2.49	0.45
1:A:256:VAL:O	1:A:260:TYR:HB2	2.16	0.45
1:E:256:VAL:O	1:E:260:TYR:HB2	2.16	0.45
1:A:197:LYS:HD3	1:A:263:ASP:CB	2.44	0.45
1:E:184:LYS:HE2	1:E:193:LEU:HD12	1.98	0.45
1:C:185:ASP:O	1:C:190:PRO:CA	2.64	0.45
1:C:90:PRO:O	1:C:91:LYS:C	2.54	0.45
1:B:161:ILE:O	1:B:165:GLN:HA	2.17	0.45
1:C:730:ASN:O	1:C:732:ILE:N	2.49	0.45
2:P:6:GLU:O	2:P:9:ILE:HB	2.16	0.45
2:O:13:LYS:C	2:O:15:ALA:N	2.69	0.45
2:T:25:GLY:HA3	2:T:65:PHE:CZ	2.51	0.45
1:A:77:ASP:O	1:A:81:GLN:HB2	2.16	0.45
1:C:500:SER:HG	1:C:502:THR:HG1	1.60	0.45
1:E:505:LYS:HE3	1:E:513:TRP:CD2	2.51	0.45
1:F:217:LYS:HZ2	1:F:236:GLU:HB2	1.80	0.45
1:D:443:GLU:HG3	1:D:458:LYS:HE3	1.98	0.45
1:E:501:LEU:HD22	2:S:112:LEU:CD2	2.46	0.45
1:A:619:ILE:O	1:A:620:THR:C	2.53	0.45
1:D:735:VAL:HA	1:D:738:SER:HB2	1.98	0.45
1:E:621:GLY:HA2	2:S:94:LYS:NZ	2.30	0.45
2:O:102:ALA:CB	2:O:125:ILE:HG13	2.47	0.45
2:T:138:TYR:CZ	2:T:142:VAL:HG21	2.51	0.45
1:A:285:LYS:C	1:A:287:GLY:H	2.19	0.45
1:B:192:PHE:HB3	1:B:196:ILE:CD1	2.46	0.45
1:B:90:PRO:O	1:B:91:LYS:C	2.54	0.45
1:D:197:LYS:HD3	1:D:263:ASP:CB	2.45	0.45
1:C:176:GLY:O	1:C:180:ASP:OD1	2.34	0.45
1:B:137:PHE:O	1:B:140:ARG:HB2	2.17	0.45
1:B:164:GLU:HG2	1:B:166:SER:HB3	1.97	0.45
1:C:670:ILE:CG2	1:C:744:GLU:HB2	2.46	0.45
1:E:744:GLU:CD	1:E:744:GLU:H	2.20	0.45
1:A:678:VAL:HG13	1:A:745:TYR:CD2	2.52	0.45
2:Q:6:GLU:O	2:Q:9:ILE:HB	2.16	0.45
2:O:65:PHE:H	2:O:65:PHE:HD1	1.65	0.45
1:C:756:ILE:O	1:C:760:VAL:HG23	2.16	0.45
1:B:567:THR:CG2	1:B:568:GLY:N	2.80	0.45
1:B:629:ASN:HD22	1:B:630:ARG:N	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:462:ILE:CG1	1:F:463:THR:N	2.78	0.45
1:C:633:ASN:O	1:C:642:TYR:HE1	1.98	0.45
1:A:325:TYR:CD1	1:A:598:PRO:HD3	2.51	0.45
1:D:384:ASN:C	1:D:386:GLU:N	2.69	0.45
1:F:384:ASN:C	1:F:386:GLU:N	2.69	0.45
1:A:148:GLU:CG	1:A:149:THR:N	2.77	0.45
1:E:609:GLU:H	1:E:609:GLU:CD	2.17	0.45
1:C:334:LEU:H	1:C:334:LEU:CD1	2.28	0.45
1:C:706:ASN:O	2:Q:130:ILE:HG23	2.17	0.45
2:R:102:ALA:CB	2:R:125:ILE:HG13	2.46	0.45
2:R:138:TYR:O	2:R:142:VAL:HG23	2.17	0.45
2:Q:27:ILE:HD12	2:Q:32:LEU:HA	1.97	0.45
1:E:716:LYS:O	1:E:717:LYS:C	2.54	0.45
1:D:509:PRO:O	1:D:511:LYS:N	2.49	0.45
1:C:523:LEU:HD22	2:Q:127:GLU:HG2	1.99	0.45
1:D:566:TYR:N	1:D:566:TYR:CD2	2.84	0.45
1:B:197:LYS:HD3	1:B:263:ASP:CB	2.44	0.45
1:B:217:LYS:CG	1:B:236:GLU:HG3	2.44	0.45
1:B:243:LEU:HA	1:B:246:SER:OG	2.16	0.45
1:B:90:PRO:HD3	1:B:249:PHE:CE2	2.51	0.45
1:E:243:LEU:HA	1:E:246:SER:OG	2.16	0.45
1:C:102:GLY:HA2	1:C:150:PRO:O	2.17	0.45
1:C:173:ILE:HG23	1:C:174:GLY:N	2.32	0.45
1:F:223:LYS:HD3	1:F:224:SER:H	1.77	0.45
1:F:243:LEU:HA	1:F:246:SER:OG	2.16	0.45
1:F:89:ILE:HG22	1:F:90:PRO:HD2	1.98	0.45
2:P:25:GLY:HA3	2:P:65:PHE:CZ	2.51	0.45
2:Q:55:VAL:CG2	2:Q:67:GLU:OE1	2.64	0.45
2:T:65:PHE:H	2:T:65:PHE:HD1	1.65	0.45
1:A:505:LYS:C	1:A:507:GLN:N	2.69	0.45
1:A:597:ASN:O	1:A:599:GLU:N	2.48	0.45
1:C:81:GLN:CD	1:C:156:ILE:HG21	2.37	0.45
1:E:384:ASN:C	1:E:386:GLU:N	2.69	0.45
1:C:620:THR:HG22	1:C:621:GLY:N	2.31	0.45
1:A:593:ILE:C	1:A:604:LEU:HD12	2.36	0.45
1:E:619:ILE:O	1:E:620:THR:C	2.54	0.45
2:P:138:TYR:CZ	2:P:142:VAL:CG2	2.99	0.45
1:E:285:LYS:C	1:E:287:GLY:H	2.19	0.45
1:B:225:ILE:HG23	1:B:229:PHE:CE2	2.51	0.45
1:D:243:LEU:HA	1:D:246:SER:OG	2.16	0.45
1:C:130:SER:O	1:C:131:ARG:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:179:LEU:HA	1:C:182:ILE:HG22	1.98	0.45
1:F:238:GLN:C	1:F:240:ALA:N	2.69	0.45
1:A:165:GLN:C	1:A:167:LYS:N	2.70	0.45
1:B:743:PRO:HA	1:B:746:LYS:CB	2.46	0.45
1:E:165:GLN:C	1:E:167:LYS:N	2.70	0.45
1:C:746:LYS:CD	1:C:750:GLN:HE21	2.30	0.45
1:D:730:ASN:C	1:D:732:ILE:N	2.70	0.45
1:D:670:ILE:CG2	1:D:744:GLU:HB2	2.47	0.45
1:F:678:VAL:HG13	1:F:745:TYR:CD2	2.51	0.45
1:C:275:GLY:CA	1:C:278:LYS:HE2	2.47	0.45
1:E:275:GLY:CA	1:E:278:LYS:HE2	2.47	0.45
1:E:756:ILE:O	1:E:760:VAL:HG23	2.16	0.45
1:C:581:GLN:HE21	1:C:629:ASN:H	1.63	0.45
1:C:324:THR:CB	1:C:499:PRO:HA	2.40	0.45
1:D:79:ILE:O	1:D:81:GLN:N	2.50	0.45
1:F:81:GLN:CD	1:F:156:ILE:HG21	2.37	0.45
2:P:111:ASN:C	2:P:113:GLY:H	2.18	0.45
1:B:472:ARG:HB3	1:B:472:ARG:HH11	1.80	0.45
2:P:138:TYR:O	2:P:142:VAL:HG23	2.17	0.45
1:D:461:LYS:HA	1:D:461:LYS:HD2	1.79	0.45
2:T:73:ALA:O	2:T:75:LYS:N	2.50	0.45
2:S:39:LEU:HA	2:S:39:LEU:HD23	1.84	0.45
1:B:263:ASP:O	1:B:264:MET:C	2.53	0.45
1:B:88:LYS:NZ	1:B:172:GLU:OE1	2.49	0.45
1:D:263:ASP:O	1:D:264:MET:C	2.55	0.45
1:E:192:PHE:HB3	1:E:196:ILE:CD1	2.47	0.45
1:C:164:GLU:HG2	1:C:166:SER:HB3	1.98	0.45
1:C:88:LYS:NZ	1:C:172:GLU:OE1	2.50	0.45
1:C:195:LEU:CD1	1:C:230:ILE:HG21	2.46	0.45
1:F:115:LYS:NZ	1:F:117:LEU:HB2	2.32	0.45
1:F:192:PHE:HD1	1:F:192:PHE:H	1.65	0.45
1:A:85:LEU:HD12	1:A:168:GLU:OE1	2.17	0.45
1:A:133:GLU:OE1	1:A:134:LYS:N	2.49	0.45
1:A:743:PRO:HA	1:A:746:LYS:CB	2.47	0.45
2:O:58:ASP:HB3	2:O:62:THR:CG2	2.43	0.45
2:O:58:ASP:O	2:O:60:ASN:N	2.49	0.45
2:O:25:GLY:HA3	2:O:65:PHE:CZ	2.51	0.45
1:F:133:GLU:OE1	1:F:134:LYS:N	2.49	0.45
2:P:8:GLN:O	2:P:12:PHE:HD2	2.00	0.45
1:E:81:GLN:CD	1:E:156:ILE:HG21	2.37	0.45
2:R:3:GLN:N	2:R:77:LYS:HD3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:148:GLU:CG	1:D:149:THR:N	2.73	0.45
1:E:372:LYS:HG3	1:E:373:LYS:N	2.32	0.45
1:A:501:LEU:HD22	2:O:112:LEU:CD2	2.46	0.45
1:F:609:GLU:O	1:F:613:ARG:N	2.48	0.45
1:B:604:LEU:HG	1:B:605:THR:O	2.17	0.45
1:D:365:PRO:HB2	1:D:367:ASP:O	2.17	0.45
1:A:514:ASP:O	1:A:516:VAL:N	2.50	0.45
1:F:690:LYS:HD3	1:F:741:ILE:HG23	1.97	0.45
1:D:593:ILE:C	1:D:604:LEU:HD12	2.36	0.45
1:D:735:VAL:O	1:D:738:SER:CB	2.65	0.45
1:F:349:ASN:HD22	1:F:350:VAL:N	2.15	0.45
2:R:27:ILE:HD12	2:R:32:LEU:HA	1.98	0.45
2:P:146:THR:O	2:P:147:ALA:C	2.52	0.45
1:A:102:GLY:HA2	1:A:150:PRO:O	2.17	0.45
1:A:175:LYS:HZ3	1:A:175:LYS:CB	2.30	0.45
1:A:263:ASP:O	1:A:264:MET:C	2.54	0.45
1:D:238:GLN:C	1:D:240:ALA:H	2.20	0.45
1:C:152:LEU:CD2	1:C:154:ILE:HG12	2.46	0.45
1:E:671:ARG:HD2	2:S:14:GLU:HG2	1.99	0.45
2:P:65:PHE:H	2:P:65:PHE:HD1	1.65	0.45
1:A:729:TYR:HB2	1:A:756:ILE:HG21	1.97	0.45
2:Q:58:ASP:HB3	2:Q:62:THR:CG2	2.43	0.45
1:F:567:THR:HG23	1:F:568:GLY:N	2.30	0.45
1:F:756:ILE:O	1:F:760:VAL:HG23	2.16	0.45
1:B:77:ASP:O	1:B:81:GLN:HB2	2.17	0.45
1:D:595:ILE:CG2	1:D:596:ILE:N	2.79	0.45
1:A:81:GLN:CD	1:A:156:ILE:HG21	2.37	0.45
1:F:319:ALA:O	1:F:323:ASN:HA	2.15	0.45
1:B:555:GLN:HG3	1:B:556:MET:N	2.31	0.45
1:B:597:ASN:CB	1:B:598:PRO:HD2	2.46	0.45
1:B:776:LEU:HD23	1:B:776:LEU:C	2.37	0.45
1:C:443:GLU:O	1:C:455:TYR:HA	2.16	0.45
1:B:332:ASN:OD1	1:B:334:LEU:N	2.47	0.45
1:D:99:GLU:C	1:D:101:GLY:N	2.68	0.45
1:A:365:PRO:HB2	1:A:367:ASP:O	2.17	0.45
1:B:620:THR:HG22	1:B:621:GLY:N	2.31	0.45
2:T:109:MET:HG3	2:T:116:LEU:HD11	1.98	0.45
2:S:138:TYR:CZ	2:S:142:VAL:HG21	2.52	0.45
1:A:493:ASP:OD2	1:A:577:HIS:CE1	2.70	0.45
1:A:100:LEU:CD1	1:A:182:ILE:HG21	2.47	0.45
1:A:243:LEU:HA	1:A:246:SER:OG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:88:LYS:NZ	1:B:172:GLU:CD	2.70	0.45
1:D:187:SER:O	1:D:188:LEU:C	2.50	0.45
1:D:195:LEU:CD1	1:D:230:ILE:HG21	2.47	0.45
1:E:197:LYS:HD3	1:E:263:ASP:CB	2.44	0.45
1:C:238:GLN:C	1:C:240:ALA:N	2.68	0.45
1:F:131:ARG:HB2	1:F:170:TYR:CE2	2.52	0.45
1:F:152:LEU:CD2	1:F:154:ILE:HG12	2.46	0.45
1:D:165:GLN:C	1:D:167:LYS:N	2.70	0.45
1:E:671:ARG:NH1	1:E:671:ARG:HG3	2.32	0.45
1:A:730:ASN:C	1:A:732:ILE:N	2.70	0.45
2:T:6:GLU:O	2:T:9:ILE:HB	2.16	0.45
1:B:764:LEU:C	1:B:766:HIS:N	2.70	0.45
1:A:722:ILE:HD13	1:A:764:LEU:HD21	1.99	0.45
1:E:567:THR:HG23	1:E:568:GLY:N	2.31	0.45
1:C:279:ILE:H	1:C:279:ILE:CD1	2.28	0.45
1:C:414:LYS:HD3	1:C:414:LYS:C	2.37	0.45
1:C:486:LYS:HE3	1:C:570:THR:O	2.17	0.45
1:E:77:ASP:O	1:E:81:GLN:HB2	2.17	0.45
1:A:549:LEU:HB3	1:A:578:GLY:HA3	1.99	0.45
1:C:327:LEU:HG	1:C:595:ILE:HG12	1.98	0.45
1:F:325:TYR:HB2	1:F:498:ALA:HB3	1.99	0.45
2:O:111:ASN:C	2:O:113:GLY:H	2.18	0.45
1:D:372:LYS:HG3	1:D:373:LYS:N	2.32	0.45
1:A:372:LYS:HG3	1:A:373:LYS:N	2.32	0.45
1:C:609:GLU:N	1:C:609:GLU:CD	2.70	0.45
1:B:501:LEU:HD22	2:P:112:LEU:CD2	2.47	0.45
1:F:706:ASN:O	2:T:130:ILE:HG23	2.17	0.45
1:F:270:LYS:O	1:F:273:LYS:HB2	2.16	0.45
1:B:566:TYR:N	1:B:566:TYR:CD2	2.85	0.45
1:A:192:PHE:HB3	1:A:196:ILE:CD1	2.46	0.45
1:B:179:LEU:HB2	1:B:183:SER:HB2	1.98	0.45
1:B:725:GLY:O	1:B:728:ALA:HB3	2.17	0.45
1:E:670:ILE:CG2	1:E:744:GLU:HB2	2.46	0.45
1:C:567:THR:CG2	1:C:568:GLY:N	2.80	0.45
1:E:405:LEU:CD1	1:E:405:LEU:H	2.30	0.45
1:A:446:ILE:HA	1:A:453:VAL:HA	1.98	0.45
1:B:759:GLN:NE2	1:B:759:GLN:HA	2.20	0.45
1:E:630:ARG:CD	2:S:83:GLU:HG2	2.47	0.45
1:D:414:LYS:O	1:D:417:GLY:N	2.40	0.45
1:B:81:GLN:CD	1:B:156:ILE:HG21	2.37	0.45
1:F:505:LYS:HE3	1:F:513:TRP:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:288:VAL:CG2	1:C:289:GLU:N	2.75	0.45
1:B:324:THR:CB	1:B:499:PRO:HA	2.41	0.45
2:S:3:GLN:N	2:S:77:LYS:HD3	2.31	0.45
1:A:443:GLU:O	1:A:455:TYR:HA	2.17	0.45
1:F:372:LYS:HG3	1:F:373:LYS:N	2.32	0.45
1:E:609:GLU:N	1:E:609:GLU:CD	2.71	0.45
2:R:94:LYS:NZ	2:R:94:LYS:HB3	2.31	0.45
1:D:102:GLY:HA2	1:D:150:PRO:O	2.16	0.45
1:D:604:LEU:HG	1:D:605:THR:O	2.17	0.45
1:A:76:LEU:HD22	1:A:76:LEU:H	1.82	0.45
1:A:523:LEU:HD22	2:O:127:GLU:HG2	1.99	0.45
1:E:493:ASP:OD2	1:E:577:HIS:CE1	2.70	0.45
1:D:716:LYS:O	1:D:720:ILE:HG22	2.17	0.45
2:Q:39:LEU:HD23	2:Q:39:LEU:HA	1.85	0.45
1:E:88:LYS:NZ	1:E:172:GLU:CD	2.69	0.45
1:C:236:GLU:HA	1:C:239:HIS:HD2	1.75	0.45
1:F:165:GLN:C	1:F:167:LYS:N	2.70	0.45
1:D:164:GLU:C	1:D:166:SER:N	2.70	0.45
2:S:6:GLU:O	2:S:9:ILE:HB	2.17	0.45
1:B:678:VAL:HG13	1:B:745:TYR:CD2	2.52	0.45
1:A:665:LYS:HE2	2:O:11:GLU:OE2	2.17	0.45
2:Q:58:ASP:O	2:Q:60:ASN:N	2.49	0.45
2:Q:65:PHE:HD1	2:Q:65:PHE:H	1.65	0.45
1:F:567:THR:CG2	1:F:568:GLY:N	2.79	0.45
1:E:567:THR:CG2	1:E:568:GLY:N	2.80	0.45
1:F:405:LEU:H	1:F:405:LEU:CD1	2.30	0.45
2:S:13:LYS:C	2:S:15:ALA:N	2.69	0.45
1:D:529:VAL:O	1:D:532:LEU:N	2.49	0.45
2:P:3:GLN:N	2:P:77:LYS:HD3	2.32	0.45
1:B:372:LYS:HG3	1:B:373:LYS:N	2.32	0.45
1:B:368:GLN:HG3	1:B:384:ASN:N	2.32	0.45
1:D:368:GLN:HG3	1:D:384:ASN:N	2.32	0.45
1:F:610:MET:O	1:F:614:PHE:N	2.43	0.45
1:A:384:ASN:C	1:A:386:GLU:N	2.69	0.45
1:F:620:THR:HG22	1:F:621:GLY:N	2.32	0.45
1:B:480:ASN:HD21	1:B:483:GLY:CA	2.29	0.45
1:A:187:SER:O	1:A:188:LEU:C	2.50	0.44
1:F:192:PHE:HB3	1:F:196:ILE:CD1	2.47	0.44
1:A:722:ILE:HD13	1:A:764:LEU:HD23	1.99	0.44
1:F:137:PHE:O	1:F:140:ARG:HB2	2.17	0.44
1:D:135:VAL:N	1:D:136:PRO:CD	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:567:THR:HG23	1:B:568:GLY:N	2.31	0.44
1:C:759:GLN:HA	1:C:759:GLN:NE2	2.19	0.44
1:C:137:PHE:O	1:C:140:ARG:HB2	2.16	0.44
1:D:323:ASN:C	1:D:323:ASN:ND2	2.70	0.44
1:C:629:ASN:HD22	1:C:630:ARG:N	2.15	0.44
1:F:504:ILE:HD12	1:F:504:ILE:N	2.32	0.44
1:F:529:VAL:O	1:F:532:LEU:N	2.50	0.44
2:O:3:GLN:N	2:O:77:LYS:HD3	2.32	0.44
1:E:443:GLU:HG3	1:E:458:LYS:HE3	1.97	0.44
1:E:610:MET:O	1:E:614:PHE:N	2.44	0.44
1:A:604:LEU:HG	1:A:605:THR:O	2.17	0.44
1:E:76:LEU:H	1:E:76:LEU:CD2	2.29	0.44
1:E:349:ASN:HD22	1:E:350:VAL:N	2.15	0.44
2:R:109:MET:HG3	2:R:116:LEU:HD11	1.99	0.44
1:D:285:LYS:C	1:D:287:GLY:H	2.19	0.44
1:A:509:PRO:O	1:A:511:LYS:N	2.50	0.44
1:C:509:PRO:O	1:C:511:LYS:N	2.50	0.44
1:E:509:PRO:O	1:E:511:LYS:N	2.50	0.44
1:E:566:TYR:CD2	1:E:566:TYR:N	2.84	0.44
1:A:566:TYR:N	1:A:566:TYR:CD2	2.84	0.44
1:A:88:LYS:NZ	1:A:172:GLU:CD	2.71	0.44
1:B:128:MET:HE2	1:B:239:HIS:NE2	2.32	0.44
1:C:192:PHE:HB3	1:C:196:ILE:CD1	2.47	0.44
1:B:135:VAL:N	1:B:136:PRO:CD	2.81	0.44
1:F:164:GLU:C	1:F:166:SER:N	2.70	0.44
1:D:161:ILE:HG23	1:D:168:GLU:HB2	1.98	0.44
1:B:690:LYS:CD	1:B:741:ILE:HG23	2.47	0.44
1:B:744:GLU:H	1:B:744:GLU:CD	2.19	0.44
1:A:677:GLY:HA2	1:A:745:TYR:OH	2.16	0.44
1:F:677:GLY:HA2	1:F:745:TYR:OH	2.17	0.44
1:C:306:GLY:O	1:C:336:THR:HG23	2.17	0.44
2:R:65:PHE:H	2:R:65:PHE:HD1	1.65	0.44
1:F:505:LYS:C	1:F:507:GLN:N	2.69	0.44
1:C:457:THR:CG2	1:C:468:LYS:HA	2.42	0.44
1:F:457:THR:CG2	1:F:468:LYS:HA	2.43	0.44
1:D:81:GLN:CD	1:D:156:ILE:HG21	2.38	0.44
1:E:368:GLN:HG3	1:E:384:ASN:N	2.32	0.44
1:D:610:MET:O	1:D:614:PHE:N	2.44	0.44
1:A:609:GLU:CD	1:A:609:GLU:N	2.71	0.44
1:D:349:ASN:HD22	1:D:350:VAL:N	2.15	0.44
1:A:349:ASN:HD22	1:A:350:VAL:N	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:716:LYS:O	1:D:717:LYS:C	2.54	0.44
1:E:295:VAL:HG21	1:E:603:ILE:CG2	2.47	0.44
1:B:102:GLY:HA2	1:B:150:PRO:O	2.17	0.44
1:B:187:SER:O	1:B:188:LEU:C	2.50	0.44
1:B:192:PHE:HD1	1:B:192:PHE:H	1.65	0.44
1:D:185:ASP:O	1:D:190:PRO:HD3	2.16	0.44
1:F:88:LYS:NZ	1:F:172:GLU:CD	2.71	0.44
1:A:137:PHE:O	1:A:140:ARG:HB2	2.17	0.44
1:F:725:GLY:O	1:F:728:ALA:HB3	2.17	0.44
1:B:729:TYR:HB2	1:B:756:ILE:HG21	1.99	0.44
2:P:58:ASP:O	2:P:60:ASN:N	2.50	0.44
1:C:447:SER:OG	1:C:448:ASP:N	2.46	0.44
1:E:659:THR:O	1:E:660:SER:C	2.55	0.44
1:A:450:ASN:O	1:A:452:GLU:N	2.48	0.44
1:D:581:GLN:HE21	1:D:629:ASN:H	1.64	0.44
2:R:110:THR:O	2:R:113:GLY:N	2.47	0.44
1:C:372:LYS:HG3	1:C:373:LYS:N	2.32	0.44
1:E:443:GLU:CG	1:E:458:LYS:HE3	2.47	0.44
1:C:610:MET:O	1:C:614:PHE:N	2.44	0.44
2:O:114:GLU:OE2	2:O:114:GLU:HA	2.17	0.44
1:A:99:GLU:C	1:A:101:GLY:N	2.68	0.44
1:A:690:LYS:CD	1:A:741:ILE:HG23	2.47	0.44
1:E:480:ASN:HD21	1:E:483:GLY:CA	2.30	0.44
1:F:622:LYS:HD3	1:F:622:LYS:HA	1.20	0.44
2:O:146:THR:O	2:O:148:LYS:N	2.51	0.44
1:C:716:LYS:O	1:C:720:ILE:HG22	2.17	0.44
1:D:270:LYS:O	1:D:273:LYS:HB2	2.18	0.44
1:B:89:ILE:HG22	1:B:90:PRO:HD2	1.99	0.44
1:E:234:LEU:H	1:E:234:LEU:CD2	2.31	0.44
1:B:85:LEU:HD12	1:B:168:GLU:OE1	2.17	0.44
1:E:730:ASN:C	1:E:732:ILE:N	2.70	0.44
1:D:746:LYS:CD	1:D:750:GLN:HE21	2.30	0.44
2:T:12:PHE:HE1	2:T:72:MET:HE2	1.82	0.44
2:O:26:THR:HB	2:O:62:THR:OG1	2.18	0.44
1:D:567:THR:HG23	1:D:568:GLY:N	2.32	0.44
1:A:414:LYS:C	1:A:414:LYS:HD3	2.38	0.44
2:S:65:PHE:HD1	2:S:65:PHE:H	1.66	0.44
1:F:414:LYS:C	1:F:414:LYS:HD3	2.38	0.44
1:C:140:ARG:NE	1:C:140:ARG:CA	2.78	0.44
1:E:79:ILE:C	1:E:81:GLN:N	2.70	0.44
1:D:323:ASN:ND2	1:D:598:PRO:CB	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:629:ASN:HD22	1:D:630:ARG:N	2.15	0.44
1:A:71:PHE:HD1	1:A:108:ASP:OD1	2.00	0.44
1:C:579:THR:O	1:C:581:GLN:N	2.51	0.44
1:B:322:LEU:HD13	1:B:556:MET:HE2	2.00	0.44
1:F:549:LEU:HB3	1:F:578:GLY:HA3	1.99	0.44
2:R:111:ASN:C	2:R:113:GLY:H	2.19	0.44
2:S:111:ASN:C	2:S:113:GLY:H	2.18	0.44
1:D:443:GLU:O	1:D:455:TYR:HA	2.18	0.44
1:C:391:ILE:O	1:C:393:GLU:N	2.51	0.44
1:E:443:GLU:O	1:E:455:TYR:HA	2.18	0.44
1:B:609:GLU:H	1:B:609:GLU:CD	2.19	0.44
1:C:604:LEU:HG	1:C:605:THR:O	2.17	0.44
1:A:480:ASN:HD21	1:A:483:GLY:CA	2.30	0.44
2:O:138:TYR:CZ	2:O:142:VAL:CG2	3.00	0.44
1:A:178:SER:OG	1:A:179:LEU:N	2.50	0.44
1:B:195:LEU:CD1	1:B:230:ILE:HG21	2.48	0.44
1:C:115:LYS:NZ	1:C:117:LEU:HB2	2.33	0.44
1:F:195:LEU:CD1	1:F:230:ILE:HG21	2.48	0.44
1:F:169:VAL:CG2	1:F:246:SER:HB2	2.48	0.44
1:B:746:LYS:CD	1:B:750:GLN:HE21	2.30	0.44
1:A:744:GLU:CD	1:A:744:GLU:H	2.20	0.44
2:Q:26:THR:HB	2:Q:62:THR:OG1	2.17	0.44
2:Q:58:ASP:C	2:Q:60:ASN:N	2.68	0.44
1:C:567:THR:HG23	1:C:568:GLY:N	2.30	0.44
1:D:764:LEU:C	1:D:766:HIS:H	2.21	0.44
1:D:275:GLY:CA	1:D:278:LYS:HE2	2.47	0.44
1:A:579:THR:O	1:A:581:GLN:N	2.51	0.44
1:E:71:PHE:HD1	1:E:108:ASP:OD1	2.00	0.44
1:D:327:LEU:HG	1:D:595:ILE:HG23	1.99	0.44
1:C:325:TYR:HB2	1:C:498:ALA:HB3	1.99	0.44
1:B:549:LEU:HB3	1:B:578:GLY:HA3	2.00	0.44
1:E:323:ASN:ND2	1:E:598:PRO:CB	2.80	0.44
2:R:3:GLN:N	2:R:77:LYS:NZ	2.60	0.44
2:P:36:MET:HE1	2:P:43:PRO:HG3	1.97	0.44
1:F:368:GLN:HG3	1:F:384:ASN:N	2.31	0.44
1:B:443:GLU:CG	1:B:458:LYS:HE3	2.48	0.44
1:F:609:GLU:CD	1:F:609:GLU:N	2.71	0.44
1:B:514:ASP:O	1:B:516:VAL:N	2.51	0.44
2:T:94:LYS:NZ	2:T:94:LYS:HB3	2.31	0.44
2:P:102:ALA:CB	2:P:125:ILE:HG13	2.48	0.44
2:T:138:TYR:CZ	2:T:142:VAL:CG2	3.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:138:TYR:CZ	2:R:142:VAL:CG2	3.00	0.44
1:C:439:ASN:OD1	1:C:440:GLN:N	2.51	0.44
1:A:546:LYS:NZ	1:A:554:LYS:HE2	2.33	0.44
1:C:270:LYS:O	1:C:273:LYS:HB2	2.18	0.44
1:E:514:ASP:O	1:E:516:VAL:N	2.50	0.44
1:E:461:LYS:HD2	1:E:461:LYS:HA	1.79	0.44
1:A:195:LEU:CD1	1:A:230:ILE:HG21	2.48	0.44
1:E:217:LYS:HZ2	1:E:236:GLU:HB2	1.81	0.44
1:E:135:VAL:N	1:E:136:PRO:CD	2.81	0.44
1:F:130:SER:O	1:F:131:ARG:C	2.56	0.44
1:A:164:GLU:C	1:A:166:SER:N	2.71	0.44
1:A:135:VAL:N	1:A:136:PRO:CD	2.81	0.44
1:C:744:GLU:CD	1:C:744:GLU:H	2.20	0.44
1:D:725:GLY:O	1:D:728:ALA:HB3	2.17	0.44
1:D:311:HIS:CD2	1:D:564:VAL:HB	2.53	0.44
2:R:97:ASN:HD22	2:R:98:GLY:N	2.15	0.44
2:T:26:THR:HB	2:T:62:THR:OG1	2.18	0.44
2:R:13:LYS:C	2:R:15:ALA:N	2.68	0.44
2:R:26:THR:HB	2:R:62:THR:OG1	2.17	0.44
1:B:405:LEU:CD1	1:B:405:LEU:H	2.31	0.44
1:B:279:ILE:HD13	1:B:279:ILE:H	1.83	0.44
1:E:414:LYS:C	1:E:414:LYS:HD3	2.38	0.44
1:E:579:THR:O	1:E:581:GLN:N	2.51	0.44
1:C:323:ASN:C	1:C:323:ASN:ND2	2.71	0.44
1:B:323:ASN:C	1:B:324:THR:CG2	2.86	0.44
1:D:71:PHE:HD1	1:D:108:ASP:OD1	2.00	0.44
1:B:538:ILE:HG21	2:P:87:GLU:HB2	1.99	0.44
1:C:368:GLN:HG3	1:C:384:ASN:N	2.32	0.44
1:F:97:TYR:O	1:F:100:LEU:N	2.50	0.44
1:F:332:ASN:OD1	1:F:334:LEU:N	2.47	0.44
1:B:257:LEU:O	1:B:261:ALA:O	2.36	0.44
1:E:735:VAL:HA	1:E:738:SER:HB2	2.00	0.44
1:C:349:ASN:HD22	1:C:350:VAL:N	2.16	0.44
1:D:706:ASN:O	2:R:130:ILE:HG23	2.18	0.44
2:T:102:ALA:CB	2:T:125:ILE:HG13	2.48	0.44
2:Q:109:MET:HG3	2:Q:116:LEU:HD11	2.00	0.44
2:P:146:THR:O	2:P:148:LYS:N	2.51	0.44
2:Q:44:THR:HG23	2:Q:47:GLU:OE2	2.18	0.44
1:A:270:LYS:O	1:A:273:LYS:HB2	2.18	0.44
1:B:256:VAL:O	1:B:260:TYR:HB2	2.18	0.44
1:A:184:LYS:NZ	1:A:191:GLU:HG3	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:115:LYS:NZ	1:B:117:LEU:HB2	2.32	0.44
1:D:225:ILE:HG12	1:D:229:PHE:CE2	2.51	0.44
1:E:173:ILE:HG23	1:E:174:GLY:N	2.33	0.44
1:E:195:LEU:CD1	1:E:230:ILE:HG21	2.48	0.44
1:E:164:GLU:C	1:E:166:SER:N	2.70	0.44
1:C:725:GLY:O	1:C:728:ALA:HB3	2.17	0.44
1:C:730:ASN:C	1:C:732:ILE:N	2.70	0.44
1:F:743:PRO:HA	1:F:746:LYS:CB	2.46	0.44
1:F:746:LYS:CD	1:F:750:GLN:HE21	2.30	0.44
1:D:567:THR:CG2	1:D:568:GLY:N	2.81	0.44
1:C:715:GLU:OE1	1:C:767:GLN:NE2	2.51	0.44
1:C:311:HIS:CD2	1:C:564:VAL:HB	2.52	0.44
1:A:635:ILE:CD1	1:A:635:ILE:N	2.78	0.44
1:B:435:LEU:HG	1:B:446:ILE:HG22	1.99	0.44
1:C:278:LYS:HB2	1:C:279:ILE:HD13	2.00	0.44
1:C:135:VAL:N	1:C:136:PRO:CD	2.81	0.44
1:C:462:ILE:CG1	1:C:463:THR:N	2.79	0.44
1:A:462:ILE:CG1	1:A:463:THR:N	2.79	0.44
1:E:327:LEU:HD12	1:E:327:LEU:N	2.32	0.44
1:A:327:LEU:HG	1:A:595:ILE:HG12	1.98	0.44
1:D:505:LYS:HE3	1:D:513:TRP:CD2	2.51	0.44
1:C:322:LEU:HD13	1:C:556:MET:HE2	1.99	0.44
1:B:443:GLU:O	1:B:455:TYR:HA	2.18	0.44
1:D:609:GLU:CD	1:D:609:GLU:N	2.71	0.44
1:A:609:GLU:O	1:A:610:MET:C	2.56	0.44
1:B:332:ASN:OD1	1:B:334:LEU:CD1	2.65	0.44
1:E:620:THR:HG22	1:E:621:GLY:N	2.31	0.44
1:F:509:PRO:O	1:F:511:LYS:N	2.50	0.44
1:E:549:LEU:HB3	1:E:578:GLY:HA3	2.00	0.44
1:B:622:LYS:HD3	1:B:622:LYS:HA	1.34	0.44
1:A:169:VAL:CG2	1:A:246:SER:HB2	2.47	0.44
1:A:90:PRO:O	1:A:91:LYS:C	2.55	0.44
1:B:97:TYR:HD2	1:B:102:GLY:HA3	1.83	0.44
1:D:179:LEU:HA	1:D:182:ILE:HG22	1.99	0.44
1:D:225:ILE:HG23	1:D:229:PHE:CD2	2.53	0.44
1:D:225:ILE:HG23	1:D:229:PHE:CE2	2.53	0.44
1:E:130:SER:O	1:E:131:ARG:C	2.54	0.44
1:E:91:LYS:O	1:E:94:LEU:HB2	2.17	0.44
1:C:164:GLU:C	1:C:166:SER:N	2.71	0.44
1:C:187:SER:O	1:C:188:LEU:C	2.51	0.44
1:C:238:GLN:C	1:C:240:ALA:H	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:165:GLN:C	1:B:167:LYS:N	2.69	0.44
1:E:725:GLY:O	1:E:728:ALA:HB3	2.17	0.44
2:T:8:GLN:O	2:T:12:PHE:HD2	2.00	0.44
1:D:306:GLY:O	1:D:336:THR:HG23	2.17	0.44
2:Q:13:LYS:NZ	2:Q:65:PHE:CB	2.74	0.44
1:D:137:PHE:O	1:D:140:ARG:HB2	2.17	0.44
2:T:97:ASN:HD22	2:T:98:GLY:N	2.16	0.44
2:T:11:GLU:C	2:T:13:LYS:N	2.71	0.44
2:T:55:VAL:CG2	2:T:67:GLU:OE1	2.65	0.44
1:D:663:PHE:CE1	1:D:752:LEU:HD11	2.53	0.44
2:R:58:ASP:O	2:R:60:ASN:N	2.48	0.44
2:S:30:LYS:H	2:S:30:LYS:CD	2.13	0.44
2:Q:8:GLN:O	2:Q:12:PHE:HD2	1.99	0.44
1:F:411:GLU:O	1:F:414:LYS:HB3	2.18	0.44
1:F:462:ILE:CD1	1:F:466:GLY:HA2	2.44	0.44
1:C:549:LEU:HB3	1:C:578:GLY:HA3	1.99	0.44
1:B:323:ASN:ND2	1:B:598:PRO:CB	2.81	0.44
1:F:79:ILE:C	1:F:81:GLN:N	2.70	0.44
1:B:124:GLU:OE2	1:B:129:ASN:ND2	2.51	0.44
1:F:480:ASN:HD21	1:F:483:GLY:CA	2.30	0.44
1:B:326:ILE:CG2	1:B:328:PHE:CE1	3.00	0.44
1:C:292:ARG:NE	1:C:617:LYS:NZ	2.66	0.44
1:D:292:ARG:NE	1:D:617:LYS:NZ	2.66	0.44
1:D:514:ASP:C	1:D:516:VAL:N	2.71	0.44
2:O:44:THR:HG23	2:O:47:GLU:OE2	2.18	0.44
1:A:115:LYS:NZ	1:A:117:LEU:HB2	2.33	0.44
1:A:144:GLU:CG	1:A:177:ILE:HD11	2.45	0.44
1:B:173:ILE:HG23	1:B:174:GLY:N	2.33	0.44
1:C:131:ARG:CB	1:C:170:TYR:OH	2.65	0.44
1:C:169:VAL:CG2	1:C:246:SER:HB2	2.48	0.44
1:C:263:ASP:O	1:C:264:MET:C	2.54	0.44
1:E:746:LYS:CD	1:E:750:GLN:HE21	2.31	0.44
1:F:670:ILE:CG2	1:F:744:GLU:HB2	2.47	0.44
1:B:663:PHE:O	1:B:664:ILE:C	2.57	0.44
1:F:135:VAL:N	1:F:136:PRO:CD	2.81	0.44
2:Q:11:GLU:C	2:Q:13:LYS:N	2.71	0.44
1:F:432:TYR:CD2	1:F:447:SER:HA	2.53	0.44
2:S:26:THR:HB	2:S:62:THR:OG1	2.18	0.44
1:B:344:ALA:HB3	1:B:488:LEU:HD23	2.00	0.44
1:E:71:PHE:CG	1:E:73:ASN:HB2	2.53	0.44
1:F:323:ASN:ND2	1:F:323:ASN:C	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:549:LEU:HB3	1:D:578:GLY:HA3	2.00	0.44
1:D:551:ASN:HA	1:D:551:ASN:HD22	1.58	0.44
1:C:776:LEU:HD23	1:C:776:LEU:C	2.37	0.44
1:D:776:LEU:C	1:D:776:LEU:HD23	2.37	0.44
1:A:391:ILE:O	1:A:393:GLU:N	2.51	0.44
1:F:443:GLU:O	1:F:455:TYR:HA	2.18	0.44
1:F:614:PHE:CD2	1:F:614:PHE:O	2.71	0.44
1:D:607:ASN:HB2	1:D:610:MET:H	1.83	0.44
1:D:501:LEU:HD22	2:R:112:LEU:CD2	2.48	0.44
1:F:517:VAL:C	1:F:519:THR:H	2.21	0.44
1:C:517:VAL:HG23	1:C:518:ASN:ND2	2.33	0.44
2:P:94:LYS:HB3	2:P:94:LYS:NZ	2.32	0.44
1:A:706:ASN:O	2:O:130:ILE:HG23	2.18	0.44
1:B:482:GLU:O	1:B:484:VAL:HG23	2.17	0.44
1:C:326:ILE:CG2	1:C:328:PHE:CE1	3.01	0.44
2:S:102:ALA:CB	2:S:125:ILE:HG13	2.48	0.44
1:D:713:SER:O	1:D:714:GLN:C	2.55	0.44
1:A:173:ILE:HG23	1:A:174:GLY:N	2.33	0.43
1:B:234:LEU:H	1:B:234:LEU:CD2	2.31	0.43
1:B:169:VAL:CG2	1:B:246:SER:HB2	2.48	0.43
1:E:85:LEU:HD12	1:E:168:GLU:OE1	2.18	0.43
1:B:164:GLU:C	1:B:166:SER:N	2.71	0.43
1:B:656:THR:O	1:B:755:ARG:NH1	2.51	0.43
1:A:343:VAL:HG12	1:A:344:ALA:N	2.33	0.43
1:A:275:GLY:CA	1:A:278:LYS:HE2	2.48	0.43
1:E:411:GLU:O	1:E:414:LYS:HB3	2.18	0.43
1:B:79:ILE:C	1:B:81:GLN:N	2.71	0.43
1:F:275:GLY:CA	1:F:278:LYS:HE2	2.47	0.43
1:C:327:LEU:HD12	1:C:327:LEU:N	2.33	0.43
1:B:322:LEU:O	1:B:323:ASN:HB3	2.18	0.43
1:F:71:PHE:CG	1:F:73:ASN:HB2	2.53	0.43
1:B:384:ASN:C	1:B:386:GLU:N	2.70	0.43
1:B:391:ILE:O	1:B:393:GLU:N	2.51	0.43
1:E:517:VAL:HG23	1:E:518:ASN:ND2	2.33	0.43
1:C:480:ASN:HD22	1:C:480:ASN:C	2.21	0.43
1:C:482:GLU:O	1:C:484:VAL:HG23	2.18	0.43
2:S:109:MET:HG3	2:S:116:LEU:HD11	1.99	0.43
2:S:44:THR:HG23	2:S:47:GLU:OE2	2.18	0.43
1:B:270:LYS:O	1:B:273:LYS:HB2	2.17	0.43
1:B:461:LYS:HA	1:B:461:LYS:HD2	1.79	0.43
1:D:173:ILE:HG23	1:D:174:GLY:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:234:LEU:CD2	1:D:234:LEU:H	2.31	0.43
1:E:97:TYR:HD2	1:E:102:GLY:HA3	1.84	0.43
1:E:218:LEU:C	1:E:220:LEU:N	2.70	0.43
1:E:225:ILE:HG12	1:E:229:PHE:CE2	2.51	0.43
1:C:243:LEU:O	1:C:247:TYR:HB2	2.18	0.43
1:F:161:ILE:HG21	1:F:168:GLU:HB2	2.00	0.43
1:F:173:ILE:HG23	1:F:174:GLY:N	2.33	0.43
1:F:184:LYS:HZ2	1:F:191:GLU:HG3	1.82	0.43
1:A:671:ARG:NH1	1:A:671:ARG:HG3	2.33	0.43
1:D:744:GLU:CD	1:D:744:GLU:H	2.21	0.43
1:B:677:GLY:HA2	1:B:745:TYR:OH	2.18	0.43
1:A:344:ALA:HB3	1:A:488:LEU:HD23	2.00	0.43
1:D:446:ILE:CG1	1:D:447:SER:N	2.81	0.43
1:D:279:ILE:H	1:D:279:ILE:CD1	2.30	0.43
1:F:486:LYS:HE3	1:F:570:THR:O	2.17	0.43
1:E:635:ILE:N	1:E:635:ILE:CD1	2.79	0.43
1:C:463:THR:O	1:C:466:GLY:N	2.50	0.43
1:E:629:ASN:HD22	1:E:630:ARG:N	2.16	0.43
1:F:765:THR:HG22	1:F:769:SER:HB2	2.00	0.43
1:E:324:THR:CB	1:E:499:PRO:HA	2.41	0.43
1:E:457:THR:CG2	1:E:468:LYS:HA	2.42	0.43
1:D:71:PHE:CG	1:D:73:ASN:HB2	2.53	0.43
1:D:79:ILE:C	1:D:81:GLN:N	2.71	0.43
1:C:71:PHE:HD1	1:C:108:ASP:OD1	2.00	0.43
1:B:609:GLU:O	1:B:610:MET:C	2.56	0.43
2:Q:94:LYS:HB3	2:Q:94:LYS:NZ	2.32	0.43
1:B:517:VAL:HG23	1:B:518:ASN:ND2	2.33	0.43
1:E:517:VAL:C	1:E:519:THR:H	2.21	0.43
1:D:97:TYR:O	1:D:100:LEU:N	2.52	0.43
1:D:480:ASN:C	1:D:480:ASN:HD22	2.22	0.43
2:O:109:MET:HG3	2:O:116:LEU:HD11	1.99	0.43
2:O:138:TYR:O	2:O:142:VAL:HG23	2.18	0.43
1:E:207:ASP:C	1:E:209:LEU:H	2.22	0.43
1:A:90:PRO:HG2	1:A:93:VAL:HB	2.00	0.43
1:B:107:THR:HG21	1:B:115:LYS:CD	2.38	0.43
1:B:184:LYS:HZ2	1:B:191:GLU:CG	2.31	0.43
1:B:88:LYS:HB3	1:B:88:LYS:HE3	1.88	0.43
1:E:186:LYS:HE2	1:E:186:LYS:HB2	1.85	0.43
1:F:104:ILE:HG23	1:F:152:LEU:HD22	1.99	0.43
1:F:234:LEU:CD2	1:F:234:LEU:H	2.31	0.43
1:A:252:ASP:OD2	1:A:253:HIS:CD2	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:743:PRO:HA	1:C:746:LYS:CB	2.46	0.43
2:R:58:ASP:HB3	2:R:62:THR:CG2	2.44	0.43
1:B:450:ASN:O	1:B:452:GLU:N	2.49	0.43
1:B:595:ILE:CG2	1:B:596:ILE:N	2.81	0.43
1:B:411:GLU:O	1:B:414:LYS:HB3	2.18	0.43
1:B:71:PHE:HD1	1:B:108:ASP:OD1	2.00	0.43
1:A:595:ILE:CG2	1:A:596:ILE:N	2.81	0.43
1:C:505:LYS:HE3	1:C:513:TRP:CD2	2.53	0.43
1:A:323:ASN:ND2	1:A:323:ASN:C	2.72	0.43
1:A:323:ASN:ND2	1:A:598:PRO:CB	2.81	0.43
1:E:322:LEU:HD13	1:E:556:MET:HE1	2.00	0.43
1:C:71:PHE:CG	1:C:73:ASN:HB2	2.53	0.43
1:C:77:ASP:O	1:C:81:GLN:HB2	2.19	0.43
1:F:71:PHE:HD1	1:F:108:ASP:OD1	2.00	0.43
1:A:776:LEU:C	1:A:776:LEU:HD23	2.38	0.43
1:C:443:GLU:CG	1:C:458:LYS:HE3	2.48	0.43
1:A:443:GLU:CG	1:A:458:LYS:HE3	2.48	0.43
1:D:376:GLN:C	1:D:378:LEU:N	2.72	0.43
1:A:376:GLN:C	1:A:378:LEU:N	2.72	0.43
1:D:609:GLU:O	1:D:610:MET:C	2.56	0.43
1:B:609:GLU:N	1:B:609:GLU:CD	2.72	0.43
1:B:614:PHE:CD2	1:B:614:PHE:O	2.71	0.43
2:O:94:LYS:NZ	2:O:94:LYS:HB3	2.33	0.43
1:A:295:VAL:HG21	1:A:603:ILE:CG2	2.47	0.43
1:D:690:LYS:CD	1:D:741:ILE:HG23	2.48	0.43
1:D:307:LEU:HD12	1:D:307:LEU:N	2.34	0.43
2:Q:102:ALA:CB	2:Q:125:ILE:HG13	2.48	0.43
1:F:439:ASN:OD1	1:F:440:GLN:N	2.51	0.43
1:B:439:ASN:OD1	1:B:440:GLN:N	2.51	0.43
1:F:207:ASP:C	1:F:209:LEU:H	2.22	0.43
1:D:523:LEU:HD22	2:R:127:GLU:HG2	2.01	0.43
1:A:89:ILE:HG22	1:A:90:PRO:HD2	1.99	0.43
1:D:192:PHE:HB3	1:D:196:ILE:CD1	2.47	0.43
1:D:169:VAL:CG2	1:D:246:SER:HB2	2.48	0.43
1:D:91:LYS:O	1:D:94:LEU:HB2	2.19	0.43
1:E:90:PRO:HG2	1:E:93:VAL:HB	2.00	0.43
1:C:91:LYS:O	1:C:94:LEU:HB2	2.18	0.43
1:F:225:ILE:HG23	1:F:229:PHE:CE2	2.52	0.43
1:F:90:PRO:O	1:F:93:VAL:N	2.51	0.43
1:A:140:ARG:NH1	1:A:141:PHE:HE1	2.16	0.43
1:B:252:ASP:OD2	1:B:253:HIS:CD2	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:730:ASN:C	1:F:732:ILE:N	2.71	0.43
1:D:135:VAL:N	1:D:136:PRO:HD3	2.33	0.43
1:E:446:ILE:CG1	1:E:447:SER:N	2.81	0.43
2:P:76:MET:HA	2:P:79:THR:HG22	2.00	0.43
1:A:271:LEU:HD13	1:A:276:PHE:CE2	2.54	0.43
2:Q:97:ASN:ND2	2:Q:99:TYR:H	2.16	0.43
1:C:135:VAL:N	1:C:136:PRO:HD3	2.34	0.43
1:D:325:TYR:HB2	1:D:498:ALA:HB3	2.00	0.43
1:A:325:TYR:HB2	1:A:498:ALA:HB3	1.99	0.43
1:E:325:TYR:HB2	1:E:498:ALA:HB3	1.99	0.43
1:E:529:VAL:O	1:E:532:LEU:N	2.51	0.43
1:D:391:ILE:O	1:D:393:GLU:N	2.51	0.43
1:C:376:GLN:C	1:C:378:LEU:N	2.71	0.43
1:C:501:LEU:HD22	2:Q:112:LEU:CD2	2.49	0.43
1:E:391:ILE:O	1:E:393:GLU:N	2.52	0.43
1:C:365:PRO:HB2	1:C:367:ASP:O	2.18	0.43
1:B:349:ASN:HD22	1:B:350:VAL:N	2.16	0.43
2:Q:138:TYR:O	2:Q:142:VAL:HG23	2.18	0.43
1:F:713:SER:O	1:F:714:GLN:C	2.56	0.43
1:A:437:SER:O	1:A:439:ASN:N	2.43	0.43
2:T:44:THR:HG23	2:T:47:GLU:OE2	2.19	0.43
1:B:794:GLN:HB3	1:B:794:GLN:HE21	1.66	0.43
1:A:225:ILE:HG23	1:A:229:PHE:CD2	2.53	0.43
1:B:722:ILE:HD13	1:B:764:LEU:HD23	2.01	0.43
1:C:677:GLY:HA2	1:C:745:TYR:OH	2.17	0.43
1:F:135:VAL:N	1:F:136:PRO:HD3	2.34	0.43
1:C:722:ILE:HD13	1:C:764:LEU:HD21	2.00	0.43
2:P:97:ASN:HD22	2:P:98:GLY:N	2.16	0.43
1:C:405:LEU:H	1:C:405:LEU:CD1	2.30	0.43
1:E:660:SER:O	1:E:663:PHE:HB3	2.18	0.43
1:D:278:LYS:HB2	1:D:279:ILE:HD13	2.01	0.43
1:C:279:ILE:H	1:C:279:ILE:HD13	1.82	0.43
2:Q:110:THR:O	2:Q:113:GLY:N	2.47	0.43
1:F:776:LEU:HD23	1:F:776:LEU:C	2.38	0.43
2:T:3:GLN:N	2:T:77:LYS:NZ	2.62	0.43
1:D:443:GLU:CG	1:D:458:LYS:HE3	2.48	0.43
1:F:391:ILE:O	1:F:393:GLU:N	2.52	0.43
1:C:609:GLU:O	1:C:613:ARG:N	2.48	0.43
1:F:482:GLU:O	1:F:484:VAL:HG23	2.18	0.43
2:P:73:ALA:O	2:P:75:LYS:N	2.51	0.43
1:E:523:LEU:HD22	2:S:127:GLU:HG2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:566:TYR:N	1:F:566:TYR:CD2	2.84	0.43
1:A:176:GLY:O	1:A:180:ASP:OD1	2.37	0.43
1:A:238:GLN:C	1:A:240:ALA:H	2.22	0.43
1:B:179:LEU:O	1:B:183:SER:HB3	1.95	0.43
1:E:238:GLN:C	1:E:240:ALA:H	2.21	0.43
1:E:678:VAL:HG13	1:E:745:TYR:CD2	2.52	0.43
1:D:564:VAL:C	1:D:567:THR:HG22	2.39	0.43
2:T:58:ASP:O	2:T:60:ASN:N	2.48	0.43
1:D:463:THR:O	1:D:466:GLY:N	2.50	0.43
1:D:344:ALA:HB3	1:D:488:LEU:HD23	2.01	0.43
1:D:538:ILE:HG21	2:R:87:GLU:HB2	2.01	0.43
1:F:322:LEU:HD13	1:F:556:MET:HE1	1.99	0.43
1:A:538:ILE:HG21	2:O:87:GLU:HB2	2.01	0.43
1:D:77:ASP:O	1:D:81:GLN:HB2	2.17	0.43
1:C:609:GLU:H	1:C:609:GLU:CD	2.18	0.43
1:A:692:GLU:HA	1:A:692:GLU:OE2	2.19	0.43
1:F:517:VAL:HG23	1:F:518:ASN:ND2	2.33	0.43
1:A:295:VAL:HG12	1:A:605:THR:HA	2.00	0.43
2:S:94:LYS:HB3	2:S:94:LYS:NZ	2.32	0.43
1:D:482:GLU:O	1:D:484:VAL:HG23	2.18	0.43
1:D:514:ASP:C	1:D:516:VAL:H	2.22	0.43
1:F:514:ASP:C	1:F:516:VAL:N	2.71	0.43
1:E:270:LYS:O	1:E:273:LYS:HB2	2.18	0.43
1:C:566:TYR:N	1:C:566:TYR:CD2	2.85	0.43
1:A:234:LEU:CD2	1:A:234:LEU:H	2.31	0.43
1:B:100:LEU:HD11	1:B:182:ILE:HG21	2.01	0.43
1:B:238:GLN:C	1:B:240:ALA:H	2.21	0.43
1:D:173:ILE:O	1:D:176:GLY:N	2.52	0.43
1:D:199:LEU:C	1:D:201:ASP:N	2.70	0.43
1:F:130:SER:O	1:F:132:GLY:O	2.36	0.43
1:F:243:LEU:O	1:F:247:TYR:HB2	2.18	0.43
2:P:26:THR:HB	2:P:62:THR:OG1	2.18	0.43
2:R:9:ILE:O	2:R:10:ALA:C	2.57	0.43
1:A:279:ILE:H	1:A:279:ILE:HD13	1.84	0.43
2:O:9:ILE:O	2:O:10:ALA:C	2.55	0.43
1:B:579:THR:O	1:B:581:GLN:N	2.51	0.43
1:F:288:VAL:CG2	1:F:289:GLU:N	2.75	0.43
1:F:77:ASP:O	1:F:81:GLN:HB2	2.19	0.43
2:O:42:ASN:HA	2:O:43:PRO:HD2	1.90	0.43
2:Q:43:PRO:HG3	2:Q:48:LEU:HD13	2.00	0.43
1:F:443:GLU:CG	1:F:458:LYS:HE3	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:614:PHE:CD2	1:C:614:PHE:O	2.71	0.43
1:D:332:ASN:OD1	1:D:334:LEU:N	2.46	0.43
1:A:332:ASN:OD1	1:A:334:LEU:CD1	2.66	0.43
1:D:517:VAL:HG23	1:D:518:ASN:ND2	2.33	0.43
1:A:517:VAL:HG23	1:A:518:ASN:ND2	2.33	0.43
1:E:690:LYS:CD	1:E:741:ILE:HG23	2.47	0.43
1:A:307:LEU:HD12	1:A:307:LEU:N	2.34	0.43
1:E:713:SER:O	1:E:714:GLN:C	2.57	0.43
1:D:88:LYS:NZ	1:D:172:GLU:OE1	2.51	0.43
1:E:144:GLU:CG	1:E:177:ILE:HD11	2.47	0.43
1:C:749:PHE:O	1:C:750:GLN:C	2.57	0.43
1:B:663:PHE:CE1	1:B:752:LEU:HD11	2.53	0.43
1:C:678:VAL:HG13	1:C:745:TYR:CD2	2.53	0.43
2:O:55:VAL:CG2	2:O:67:GLU:OE1	2.66	0.43
2:O:97:ASN:HD22	2:O:98:GLY:N	2.17	0.43
1:D:722:ILE:HD13	1:D:764:LEU:HD21	2.01	0.43
1:E:446:ILE:HA	1:E:453:VAL:HA	2.01	0.43
1:A:432:TYR:CD2	1:A:447:SER:HA	2.54	0.43
1:B:759:GLN:NE2	1:B:759:GLN:CA	2.80	0.43
1:C:344:ALA:HB3	1:C:488:LEU:HD23	2.01	0.43
1:B:71:PHE:CG	1:B:73:ASN:HB2	2.53	0.43
1:F:551:ASN:HA	1:F:551:ASN:HD22	1.55	0.43
1:F:257:LEU:CD1	1:F:261:ALA:HB3	2.47	0.43
1:A:368:GLN:HG3	1:A:384:ASN:N	2.33	0.43
1:D:517:VAL:C	1:D:519:THR:H	2.22	0.43
1:B:621:GLY:HA2	2:P:94:LYS:HZ3	1.84	0.43
1:E:482:GLU:O	1:E:484:VAL:HG23	2.18	0.43
1:F:514:ASP:C	1:F:516:VAL:H	2.22	0.43
1:F:523:LEU:HD22	2:T:127:GLU:CD	2.39	0.43
1:E:716:LYS:O	1:E:720:ILE:HG22	2.19	0.43
1:A:439:ASN:OD1	1:A:440:GLN:N	2.52	0.43
2:R:44:THR:HG23	2:R:47:GLU:OE2	2.18	0.43
1:A:713:SER:O	1:A:714:GLN:C	2.56	0.43
1:A:207:ASP:C	1:A:209:LEU:H	2.21	0.43
1:A:614:PHE:CD2	1:A:614:PHE:O	2.72	0.43
1:E:115:LYS:NZ	1:E:117:LEU:HB2	2.33	0.43
1:C:191:GLU:C	1:C:193:LEU:N	2.72	0.43
1:F:749:PHE:O	1:F:750:GLN:C	2.57	0.43
1:A:663:PHE:CE1	1:A:752:LEU:HD11	2.54	0.43
1:A:411:GLU:O	1:A:414:LYS:HB3	2.19	0.43
1:A:435:LEU:HG	1:A:446:ILE:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:343:VAL:HG12	1:F:344:ALA:N	2.34	0.43
1:B:275:GLY:CA	1:B:278:LYS:HE2	2.49	0.43
1:C:338:LEU:O	1:C:343:VAL:CG2	2.67	0.43
1:F:595:ILE:CG2	1:F:596:ILE:N	2.81	0.43
1:F:271:LEU:HD13	1:F:276:PHE:CE2	2.53	0.43
1:F:278:LYS:HB2	1:F:279:ILE:HD13	2.01	0.43
1:F:628:PHE:CE2	2:T:90:ARG:HD3	2.36	0.43
1:D:327:LEU:HD12	1:D:327:LEU:N	2.33	0.43
1:D:579:THR:O	1:D:581:GLN:N	2.52	0.43
1:C:529:VAL:O	1:C:532:LEU:N	2.52	0.43
1:B:765:THR:HG22	1:B:769:SER:HB2	2.00	0.43
1:D:609:GLU:CD	1:D:609:GLU:H	2.19	0.43
1:A:517:VAL:C	1:A:519:THR:H	2.21	0.43
2:T:94:LYS:HB3	2:T:94:LYS:HZ2	1.84	0.43
1:B:692:GLU:HA	1:B:692:GLU:OE2	2.18	0.43
1:C:690:LYS:CD	1:C:741:ILE:HG23	2.49	0.43
2:Q:73:ALA:O	2:Q:74:ARG:C	2.57	0.43
2:S:146:THR:O	2:S:148:LYS:N	2.51	0.43
2:S:138:TYR:CZ	2:S:142:VAL:CG2	3.01	0.43
1:F:493:ASP:OD2	1:F:577:HIS:CE1	2.71	0.43
1:C:713:SER:O	1:C:714:GLN:C	2.56	0.43
1:D:546:LYS:NZ	1:D:554:LYS:HE2	2.34	0.43
1:B:207:ASP:C	1:B:209:LEU:H	2.22	0.43
1:A:169:VAL:HG23	1:A:246:SER:HB2	2.01	0.43
1:B:236:GLU:HA	1:B:239:HIS:HD2	1.75	0.43
1:D:107:THR:HG21	1:D:115:LYS:CD	2.46	0.43
1:D:184:LYS:HE2	1:D:193:LEU:HD12	2.01	0.43
1:D:243:LEU:O	1:D:247:TYR:HB2	2.19	0.43
1:E:89:ILE:CG2	1:E:90:PRO:HD2	2.49	0.43
1:E:135:VAL:N	1:E:136:PRO:HD3	2.34	0.43
1:F:115:LYS:O	1:F:117:LEU:N	2.52	0.43
1:F:225:ILE:HG12	1:F:229:PHE:CE2	2.53	0.43
1:D:732:ILE:HG23	1:D:749:PHE:HD1	1.84	0.43
1:F:671:ARG:HG3	1:F:671:ARG:NH1	2.34	0.43
1:B:671:ARG:HG3	1:B:671:ARG:NH1	2.34	0.43
2:P:9:ILE:O	2:P:10:ALA:C	2.57	0.43
1:E:663:PHE:O	1:E:664:ILE:C	2.57	0.43
1:A:405:LEU:H	1:A:405:LEU:CD1	2.30	0.43
1:B:630:ARG:CD	2:P:83:GLU:HG2	2.48	0.43
1:D:678:VAL:HG13	1:D:745:TYR:CD2	2.54	0.43
1:B:413:LEU:HD23	1:B:413:LEU:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:414:LYS:C	1:D:414:LYS:HD3	2.38	0.43
1:B:462:ILE:CD1	1:B:466:GLY:HA2	2.44	0.43
1:A:327:LEU:HD12	1:A:327:LEU:N	2.34	0.43
1:A:581:GLN:HE22	1:A:632:TYR:HE1	1.67	0.43
2:T:43:PRO:HG3	2:T:48:LEU:HD13	2.01	0.43
1:E:776:LEU:HD23	1:E:776:LEU:C	2.39	0.43
1:B:376:GLN:C	1:B:378:LEU:N	2.72	0.43
1:D:368:GLN:C	1:D:370:LEU:H	2.22	0.43
1:C:607:ASN:HB2	1:C:610:MET:H	1.84	0.43
1:A:384:ASN:C	1:A:386:GLU:H	2.23	0.43
1:D:692:GLU:HA	1:D:692:GLU:OE2	2.19	0.43
2:Q:146:THR:O	2:Q:148:LYS:N	2.52	0.43
1:C:711:ILE:C	1:C:712:PHE:HD2	2.22	0.43
2:P:39:LEU:HA	2:P:39:LEU:HD23	1.86	0.43
1:A:97:TYR:HD2	1:A:102:GLY:HA3	1.83	0.42
1:A:179:LEU:O	1:A:183:SER:HB3	1.97	0.42
1:A:100:LEU:HD11	1:A:182:ILE:HG21	2.01	0.42
1:A:217:LYS:HZ2	1:A:236:GLU:HB2	1.81	0.42
1:C:192:PHE:H	1:C:192:PHE:HD1	1.67	0.42
2:P:13:LYS:C	2:P:15:ALA:N	2.69	0.42
1:C:671:ARG:HG3	1:C:671:ARG:NH1	2.34	0.42
1:D:668:SER:OG	2:R:10:ALA:HB1	2.19	0.42
1:A:478:ALA:HA	1:A:488:LEU:HG	2.01	0.42
1:C:660:SER:O	1:C:663:PHE:HB3	2.18	0.42
1:C:663:PHE:O	1:C:664:ILE:C	2.57	0.42
2:P:97:ASN:ND2	2:P:99:TYR:H	2.17	0.42
2:R:11:GLU:C	2:R:13:LYS:N	2.72	0.42
1:A:278:LYS:HB2	1:A:279:ILE:HD13	2.01	0.42
1:E:478:ALA:HA	1:E:488:LEU:HG	2.01	0.42
1:C:411:GLU:O	1:C:414:LYS:HB3	2.19	0.42
1:E:595:ILE:CG2	1:E:596:ILE:N	2.81	0.42
1:E:462:ILE:CD1	1:E:466:GLY:HA2	2.45	0.42
1:E:722:ILE:HD13	1:E:764:LEU:HD23	2.01	0.42
2:S:89:PHE:O	2:S:91:VAL:N	2.52	0.42
2:T:89:PHE:O	2:T:90:ARG:C	2.55	0.42
1:A:78:LYS:CD	1:A:156:ILE:HD13	2.49	0.42
1:B:549:LEU:HB2	1:B:553:GLN:HE21	1.84	0.42
1:C:288:VAL:C	1:C:290:LYS:N	2.72	0.42
1:A:288:VAL:C	1:A:290:LYS:N	2.72	0.42
1:A:324:THR:CB	1:A:499:PRO:HA	2.41	0.42
2:P:3:GLN:N	2:P:77:LYS:NZ	2.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:295:VAL:HG12	1:F:605:THR:HA	2.00	0.42
1:F:690:LYS:CD	1:F:741:ILE:HG23	2.48	0.42
1:E:350:VAL:HG12	1:E:352:GLY:H	1.84	0.42
2:S:76:MET:HA	2:S:79:THR:HG22	2.00	0.42
1:A:292:ARG:NE	1:A:617:LYS:NZ	2.67	0.42
1:E:439:ASN:OD1	1:E:440:GLN:N	2.51	0.42
1:B:523:LEU:HD22	2:P:127:GLU:CD	2.40	0.42
1:B:716:LYS:O	1:B:720:ILE:HG22	2.18	0.42
1:A:144:GLU:HG2	1:A:177:ILE:CD1	2.47	0.42
1:A:90:PRO:HD3	1:A:249:PHE:CE2	2.54	0.42
1:E:184:LYS:HZ2	1:E:191:GLU:CG	2.32	0.42
1:F:197:LYS:HD3	1:F:263:ASP:CB	2.44	0.42
1:F:671:ARG:HD2	2:T:14:GLU:HG2	2.01	0.42
1:B:715:GLU:OE1	1:B:767:GLN:NE2	2.51	0.42
1:B:564:VAL:C	1:B:567:THR:HG22	2.40	0.42
2:S:58:ASP:C	2:S:60:ASN:N	2.68	0.42
1:D:279:ILE:H	1:D:279:ILE:HD13	1.84	0.42
1:E:759:GLN:HA	1:E:759:GLN:NE2	2.20	0.42
1:D:462:ILE:CG1	1:D:463:THR:N	2.78	0.42
1:C:134:LYS:O	1:C:135:VAL:HG12	2.19	0.42
1:B:343:VAL:HG12	1:B:344:ALA:N	2.35	0.42
1:C:462:ILE:CD1	1:C:466:GLY:HA2	2.45	0.42
1:F:327:LEU:N	1:F:327:LEU:HD12	2.34	0.42
1:D:597:ASN:O	1:D:599:GLU:N	2.49	0.42
1:F:609:GLU:O	1:F:610:MET:C	2.56	0.42
1:F:607:ASN:HB2	1:F:610:MET:H	1.84	0.42
1:E:609:GLU:O	1:E:613:ARG:N	2.47	0.42
1:B:365:PRO:HB2	1:B:367:ASP:O	2.19	0.42
1:F:365:PRO:HB2	1:F:367:ASP:O	2.18	0.42
1:C:122:GLU:HG3	1:C:147:ARG:H	1.84	0.42
1:B:502:THR:H	1:B:502:THR:HG1	1.61	0.42
1:D:439:ASN:OD1	1:D:440:GLN:N	2.52	0.42
1:D:427:ASP:C	1:D:429:GLY:H	2.23	0.42
1:E:711:ILE:C	1:E:712:PHE:HD2	2.22	0.42
1:A:130:SER:HB2	1:A:170:TYR:HE2	1.80	0.42
1:B:217:LYS:HZ2	1:B:236:GLU:HB2	1.83	0.42
1:D:218:LEU:O	1:D:218:LEU:CG	2.67	0.42
1:E:179:LEU:HB2	1:E:183:SER:HB2	1.99	0.42
1:E:169:VAL:CG2	1:E:246:SER:HB2	2.49	0.42
1:C:173:ILE:O	1:C:176:GLY:N	2.52	0.42
1:C:234:LEU:CD2	1:C:234:LEU:H	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:161:ILE:HG21	1:A:168:GLU:HB2	2.00	0.42
1:B:722:ILE:HD13	1:B:764:LEU:HD21	2.01	0.42
1:A:413:LEU:HD23	1:A:413:LEU:N	2.34	0.42
1:C:722:ILE:HD13	1:C:764:LEU:HD23	2.01	0.42
2:S:97:ASN:HD22	2:S:98:GLY:N	2.17	0.42
1:D:635:ILE:N	1:D:635:ILE:CD1	2.78	0.42
1:D:462:ILE:CD1	1:D:466:GLY:HA2	2.45	0.42
1:F:279:ILE:HD13	1:F:279:ILE:H	1.84	0.42
1:E:81:GLN:NE2	1:E:156:ILE:HG21	2.34	0.42
1:D:499:PRO:HD2	1:D:625:LEU:O	2.19	0.42
1:C:595:ILE:CG2	1:C:596:ILE:N	2.82	0.42
1:E:323:ASN:C	1:E:324:THR:CG2	2.88	0.42
1:A:123:GLU:N	1:A:123:GLU:OE2	2.44	0.42
1:E:376:GLN:C	1:E:378:LEU:N	2.72	0.42
1:F:370:LEU:HA	1:F:370:LEU:HD23	1.89	0.42
1:A:607:ASN:HB2	1:A:610:MET:H	1.85	0.42
1:C:654:ILE:HG22	1:C:655:ASN:HD22	1.85	0.42
1:B:517:VAL:C	1:B:519:THR:H	2.22	0.42
1:F:604:LEU:HG	1:F:605:THR:O	2.19	0.42
1:F:691:LYS:O	1:F:692:GLU:C	2.55	0.42
2:R:102:ALA:HA	2:R:125:ILE:HG13	2.00	0.42
1:C:514:ASP:C	1:C:516:VAL:H	2.22	0.42
1:D:207:ASP:C	1:D:209:LEU:H	2.22	0.42
1:B:144:GLU:HB3	1:B:177:ILE:HD11	2.01	0.42
1:B:186:LYS:HB2	1:B:186:LYS:HE2	1.85	0.42
1:B:188:LEU:H	1:B:188:LEU:HD22	1.75	0.42
1:E:115:LYS:O	1:E:117:LEU:N	2.52	0.42
1:C:225:ILE:HG12	1:C:229:PHE:CE2	2.54	0.42
1:C:252:ASP:OD2	1:C:253:HIS:CD2	2.72	0.42
1:C:94:LEU:O	1:C:97:TYR:N	2.51	0.42
1:F:182:ILE:C	1:F:183:SER:O	2.57	0.42
1:E:161:ILE:O	1:E:165:GLN:HA	2.19	0.42
1:E:671:ARG:HG3	1:E:671:ARG:HH11	1.84	0.42
2:O:24:ASP:OD1	2:O:25:GLY:N	2.52	0.42
1:F:335:ALA:O	1:F:339:ILE:HG13	2.20	0.42
1:C:335:ALA:O	1:C:339:ILE:HG13	2.20	0.42
1:C:446:ILE:CG1	1:C:447:SER:N	2.81	0.42
1:D:764:LEU:O	1:D:766:HIS:N	2.52	0.42
1:E:435:LEU:HG	1:E:446:ILE:HG22	2.00	0.42
1:E:759:GLN:NE2	1:E:759:GLN:CA	2.81	0.42
1:E:343:VAL:HG12	1:E:344:ALA:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:581:GLN:HE21	1:E:629:ASN:H	1.65	0.42
1:A:79:ILE:O	1:A:81:GLN:N	2.52	0.42
1:A:505:LYS:HE3	1:A:513:TRP:CD2	2.53	0.42
1:D:457:THR:CG2	1:D:468:LYS:HA	2.42	0.42
1:B:368:GLN:C	1:B:370:LEU:H	2.23	0.42
1:C:609:GLU:O	1:C:610:MET:C	2.57	0.42
1:E:614:PHE:CD2	1:E:614:PHE:O	2.72	0.42
1:C:517:VAL:C	1:C:519:THR:H	2.22	0.42
1:E:307:LEU:N	1:E:307:LEU:HD12	2.34	0.42
1:B:687:GLU:OE2	1:B:687:GLU:HA	2.20	0.42
1:E:292:ARG:NE	1:E:617:LYS:NZ	2.67	0.42
2:T:146:THR:O	2:T:148:LYS:N	2.52	0.42
1:B:269:ASN:O	1:B:273:LYS:HG3	2.20	0.42
1:C:207:ASP:C	1:C:209:LEU:H	2.22	0.42
1:C:493:ASP:OD2	1:C:577:HIS:CE1	2.72	0.42
1:A:239:HIS:O	1:A:243:LEU:HD12	2.19	0.42
1:A:97:TYR:O	1:A:100:LEU:N	2.52	0.42
1:D:115:LYS:NZ	1:D:117:LEU:HB2	2.33	0.42
1:E:131:ARG:HB2	1:E:170:TYR:CE2	2.54	0.42
1:E:131:ARG:HB2	1:E:170:TYR:CZ	2.55	0.42
1:C:88:LYS:HE2	1:C:168:GLU:OE1	2.20	0.42
1:F:218:LEU:C	1:F:220:LEU:N	2.69	0.42
1:F:218:LEU:O	1:F:218:LEU:CG	2.67	0.42
1:A:135:VAL:N	1:A:136:PRO:HD3	2.34	0.42
2:T:10:ALA:O	2:T:14:GLU:HB2	2.20	0.42
2:O:11:GLU:C	2:O:13:LYS:N	2.73	0.42
1:D:335:ALA:O	1:D:339:ILE:HG13	2.19	0.42
1:D:450:ASN:O	1:D:452:GLU:N	2.51	0.42
1:F:722:ILE:HD13	1:F:764:LEU:HD23	2.01	0.42
1:F:767:GLN:HG2	1:F:768:LYS:HG2	2.02	0.42
1:D:478:ALA:HA	1:D:488:LEU:HG	2.02	0.42
2:S:89:PHE:O	2:S:90:ARG:C	2.55	0.42
1:F:288:VAL:C	1:F:290:LYS:N	2.72	0.42
1:A:323:ASN:C	1:A:324:THR:CG2	2.88	0.42
1:B:323:ASN:ND2	1:B:323:ASN:C	2.72	0.42
1:A:389:LYS:HD2	1:A:393:GLU:OE1	2.20	0.42
1:A:691:LYS:O	1:A:692:GLU:C	2.57	0.42
1:E:480:ASN:HD22	1:E:480:ASN:C	2.23	0.42
2:T:102:ALA:HA	2:T:125:ILE:HG13	2.01	0.42
2:P:44:THR:HG23	2:P:47:GLU:OE2	2.18	0.42
1:B:493:ASP:OD2	1:B:577:HIS:CE1	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:157:LYS:HD2	1:C:157:LYS:HA	1.85	0.42
1:A:104:ILE:HG23	1:A:152:LEU:HD22	2.01	0.42
1:A:218:LEU:O	1:A:218:LEU:CG	2.67	0.42
1:B:91:LYS:O	1:B:94:LEU:HB2	2.19	0.42
1:D:218:LEU:C	1:D:220:LEU:N	2.68	0.42
1:D:90:PRO:HD3	1:D:249:PHE:CE2	2.54	0.42
1:E:100:LEU:CD1	1:E:182:ILE:HG21	2.49	0.42
1:C:104:ILE:HG23	1:C:152:LEU:HD22	2.01	0.42
1:C:225:ILE:HG23	1:C:229:PHE:CD2	2.55	0.42
1:C:254:ARG:NH1	1:C:254:ARG:HB3	2.34	0.42
1:B:135:VAL:N	1:B:136:PRO:HD3	2.33	0.42
1:F:238:GLN:C	1:F:240:ALA:H	2.22	0.42
1:A:161:ILE:O	1:A:165:GLN:HA	2.19	0.42
1:B:670:ILE:CG2	1:B:744:GLU:HB2	2.47	0.42
1:A:670:ILE:CG2	1:A:744:GLU:HB2	2.47	0.42
1:A:749:PHE:O	1:A:750:GLN:C	2.56	0.42
2:T:9:ILE:O	2:T:10:ALA:C	2.57	0.42
1:A:656:THR:O	1:A:755:ARG:NH1	2.53	0.42
1:A:663:PHE:O	1:A:664:ILE:C	2.58	0.42
1:F:656:THR:O	1:F:755:ARG:NH1	2.52	0.42
1:F:338:LEU:O	1:F:343:VAL:CG2	2.68	0.42
1:A:596:ILE:HG22	1:A:596:ILE:O	2.19	0.42
1:B:323:ASN:O	1:B:324:THR:HG22	2.19	0.42
1:B:457:THR:CG2	1:B:468:LYS:HA	2.42	0.42
2:O:18:LEU:HD23	2:O:18:LEU:HA	1.83	0.42
1:E:692:GLU:OE2	1:E:692:GLU:HA	2.18	0.42
1:F:122:GLU:HG3	1:F:147:ARG:H	1.84	0.42
1:A:735:VAL:HA	1:A:738:SER:HB2	2.02	0.42
1:F:76:LEU:CD2	1:F:76:LEU:N	2.83	0.42
2:R:146:THR:O	2:R:148:LYS:N	2.52	0.42
2:O:73:ALA:O	2:O:74:ARG:C	2.58	0.42
1:E:514:ASP:C	1:E:516:VAL:N	2.73	0.42
2:P:73:ALA:O	2:P:74:ARG:C	2.57	0.42
1:F:711:ILE:C	1:F:712:PHE:HD2	2.23	0.42
2:S:73:ALA:O	2:S:74:ARG:C	2.58	0.42
1:C:395:GLU:N	1:C:395:GLU:OE1	2.53	0.42
1:C:748:TYR:O	1:C:751:TYR:HB3	2.20	0.42
1:A:115:LYS:O	1:A:117:LEU:N	2.53	0.42
1:A:90:PRO:O	1:A:93:VAL:N	2.51	0.42
1:B:218:LEU:O	1:B:218:LEU:CG	2.67	0.42
1:B:90:PRO:HG2	1:B:93:VAL:HB	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:144:GLU:HG2	1:E:177:ILE:CD1	2.49	0.42
1:E:173:ILE:O	1:E:176:GLY:N	2.53	0.42
1:E:188:LEU:HD22	1:E:188:LEU:H	1.75	0.42
1:B:141:PHE:N	1:B:141:PHE:CD1	2.87	0.42
1:F:175:LYS:HZ3	1:F:175:LYS:CB	2.31	0.42
2:S:10:ALA:O	2:S:14:GLU:HB2	2.20	0.42
2:Q:9:ILE:O	2:Q:10:ALA:C	2.58	0.42
1:A:764:LEU:C	1:A:766:HIS:N	2.72	0.42
1:D:141:PHE:CD1	1:D:141:PHE:N	2.88	0.42
1:F:308:VAL:O	1:F:311:HIS:N	2.42	0.42
2:T:97:ASN:ND2	2:T:99:TYR:H	2.17	0.42
1:F:660:SER:O	1:F:663:PHE:HB3	2.19	0.42
2:P:100:ILE:O	2:P:136:VAL:HG22	2.20	0.42
1:C:343:VAL:HG12	1:C:344:ALA:N	2.34	0.42
1:A:71:PHE:CG	1:A:73:ASN:HB2	2.53	0.42
2:O:89:PHE:O	2:O:90:ARG:C	2.58	0.42
1:B:325:TYR:HB2	1:B:498:ALA:HB3	2.00	0.42
1:D:549:LEU:HB2	1:D:553:GLN:HE21	1.85	0.42
1:F:501:LEU:HD22	2:T:112:LEU:CD2	2.49	0.42
1:D:71:PHE:O	1:D:78:LYS:NZ	2.52	0.42
2:S:111:ASN:C	2:S:113:GLY:N	2.73	0.42
1:F:217:LYS:HB2	1:F:236:GLU:OE1	2.19	0.42
1:E:370:LEU:HD23	1:E:370:LEU:HA	1.90	0.42
1:F:609:GLU:H	1:F:609:GLU:CD	2.19	0.42
1:A:529:VAL:O	1:A:532:LEU:N	2.53	0.42
1:A:368:GLN:C	1:A:370:LEU:H	2.23	0.42
1:E:76:LEU:N	1:E:76:LEU:CD2	2.83	0.42
2:P:111:ASN:C	2:P:113:GLY:N	2.73	0.42
1:D:687:GLU:OE2	1:D:687:GLU:HA	2.18	0.42
1:A:427:ASP:C	1:A:429:GLY:H	2.23	0.42
1:E:580:GLU:C	1:E:582:ASP:H	2.23	0.42
1:E:427:ASP:C	1:E:429:GLY:H	2.23	0.42
1:A:107:THR:HG21	1:A:115:LYS:CD	2.41	0.42
1:A:185:ASP:O	1:A:190:PRO:CD	2.67	0.42
1:B:104:ILE:HG23	1:B:152:LEU:HD22	2.01	0.42
1:D:115:LYS:O	1:D:117:LEU:N	2.53	0.42
1:E:243:LEU:O	1:E:247:TYR:HB2	2.19	0.42
1:C:107:THR:HG21	1:C:115:LYS:CD	2.44	0.42
1:F:186:LYS:HE2	1:F:186:LYS:HB2	1.85	0.42
1:E:674:SER:C	1:E:676:VAL:H	2.23	0.42
1:A:671:ARG:HH11	1:A:671:ARG:HG3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:668:SER:OG	2:T:10:ALA:HB1	2.20	0.42
1:B:660:SER:O	1:B:663:PHE:HB3	2.20	0.42
1:F:141:PHE:CD1	1:F:141:PHE:N	2.88	0.42
1:C:663:PHE:CE1	1:C:752:LEU:HD11	2.55	0.42
1:D:659:THR:O	1:D:660:SER:C	2.57	0.42
1:B:446:ILE:HA	1:B:453:VAL:HA	2.00	0.42
1:C:271:LEU:HD13	1:C:276:PHE:CE2	2.54	0.42
1:B:278:LYS:HB2	1:B:279:ILE:HD13	2.02	0.42
1:D:413:LEU:HD23	1:D:413:LEU:N	2.35	0.42
1:E:767:GLN:HG2	1:E:768:LYS:HG2	2.02	0.42
1:A:81:GLN:NE2	1:A:156:ILE:HG21	2.35	0.42
1:C:322:LEU:O	1:C:323:ASN:HB3	2.20	0.42
1:B:529:VAL:O	1:B:532:LEU:N	2.53	0.42
1:C:71:PHE:O	1:C:78:LYS:NZ	2.53	0.42
1:F:538:ILE:HG21	2:T:87:GLU:HB2	2.01	0.42
2:S:43:PRO:HG3	2:S:48:LEU:HD13	2.01	0.42
1:F:368:GLN:C	1:F:370:LEU:H	2.23	0.42
1:E:368:GLN:C	1:E:370:LEU:H	2.23	0.42
1:F:654:ILE:HG22	1:F:655:ASN:HD22	1.85	0.42
1:C:295:VAL:CG2	1:C:603:ILE:CG2	2.97	0.42
1:B:76:LEU:CD2	1:B:76:LEU:N	2.83	0.42
1:A:350:VAL:HG12	1:A:352:GLY:H	1.84	0.42
1:B:350:VAL:HG12	1:B:352:GLY:H	1.84	0.42
1:C:639:ASN:HD22	1:C:640:LYS:N	2.18	0.42
1:C:480:ASN:HD21	1:C:483:GLY:CA	2.31	0.42
2:P:102:ALA:HA	2:P:125:ILE:HG13	2.01	0.42
1:C:523:LEU:HD22	2:Q:127:GLU:CD	2.40	0.42
1:D:711:ILE:C	1:D:712:PHE:HD2	2.23	0.42
1:A:461:LYS:HA	1:A:461:LYS:HD2	1.79	0.42
1:A:243:LEU:O	1:A:247:TYR:HB2	2.19	0.42
1:B:130:SER:O	1:B:131:ARG:C	2.57	0.42
1:B:173:ILE:O	1:B:176:GLY:N	2.53	0.42
1:F:218:LEU:HD21	1:F:225:ILE:CD1	2.50	0.42
1:F:225:ILE:HG23	1:F:229:PHE:CD2	2.55	0.42
1:B:732:ILE:HG23	1:B:749:PHE:HD1	1.85	0.42
2:S:24:ASP:OD1	2:S:25:GLY:N	2.53	0.42
1:D:722:ILE:HD13	1:D:764:LEU:HD23	2.02	0.42
1:D:271:LEU:HD13	1:D:276:PHE:CE2	2.55	0.42
1:F:344:ALA:HB3	1:F:488:LEU:HD23	2.01	0.42
1:C:141:PHE:CD1	1:C:141:PHE:N	2.88	0.42
2:T:18:LEU:HD23	2:T:18:LEU:HA	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:43:PRO:CG	2:O:48:LEU:HD13	2.50	0.42
2:R:43:PRO:HG3	2:R:48:LEU:HD13	2.01	0.42
1:F:376:GLN:C	1:F:378:LEU:N	2.72	0.42
1:D:654:ILE:HG22	1:D:655:ASN:HD22	1.85	0.42
1:F:699:GLY:O	1:F:700:TYR:C	2.58	0.42
1:A:76:LEU:N	1:A:76:LEU:CD2	2.83	0.42
1:D:480:ASN:HD21	1:D:483:GLY:CA	2.32	0.42
2:O:102:ALA:HA	2:O:125:ILE:HG13	2.01	0.42
1:F:427:ASP:C	1:F:429:GLY:H	2.23	0.42
1:D:561:ASN:OD1	1:D:574:VAL:N	2.40	0.42
1:C:546:LYS:NZ	1:C:554:LYS:HE2	2.35	0.42
2:O:19:PHE:N	2:O:19:PHE:CD1	2.88	0.42
1:A:192:PHE:HD1	1:A:192:PHE:H	1.68	0.42
1:B:243:LEU:O	1:B:247:TYR:HB2	2.19	0.42
1:D:236:GLU:HA	1:D:239:HIS:HD2	1.76	0.42
1:C:197:LYS:HD3	1:C:263:ASP:CB	2.44	0.42
1:B:674:SER:C	1:B:676:VAL:H	2.24	0.42
1:F:446:ILE:CG1	1:F:447:SER:N	2.81	0.42
1:F:661:ALA:O	1:F:665:LYS:HB2	2.20	0.42
1:F:760:VAL:O	1:F:764:LEU:HG	2.20	0.42
1:D:660:SER:O	1:D:663:PHE:HB3	2.20	0.42
1:B:581:GLN:HE22	1:B:632:TYR:HE1	1.68	0.42
1:B:271:LEU:HD13	1:B:276:PHE:CE2	2.55	0.42
1:E:338:LEU:O	1:E:343:VAL:CG2	2.68	0.42
1:E:630:ARG:HD2	2:S:83:GLU:HG2	2.02	0.42
1:D:411:GLU:O	1:D:414:LYS:HB3	2.19	0.42
1:B:78:LYS:CD	1:B:156:ILE:HD13	2.50	0.42
1:B:81:GLN:NE2	1:B:156:ILE:HG21	2.34	0.42
1:E:656:THR:O	1:E:755:ARG:NH1	2.52	0.42
1:A:629:ASN:ND2	1:A:630:ARG:N	2.68	0.42
1:E:71:PHE:O	1:E:78:LYS:NZ	2.53	0.42
1:E:288:VAL:C	1:E:290:LYS:N	2.72	0.42
1:D:288:VAL:C	1:D:290:LYS:N	2.72	0.42
1:C:79:ILE:C	1:C:81:GLN:N	2.72	0.42
2:T:43:PRO:CG	2:T:48:LEU:HD13	2.50	0.42
1:F:123:GLU:N	1:F:123:GLU:OE2	2.44	0.42
1:D:384:ASN:C	1:D:386:GLU:H	2.23	0.42
1:D:614:PHE:O	1:D:614:PHE:CD2	2.72	0.42
1:F:332:ASN:OD1	1:F:334:LEU:CD1	2.66	0.42
1:F:654:ILE:HG22	1:F:655:ASN:ND2	2.35	0.42
1:E:604:LEU:HG	1:E:605:THR:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:350:VAL:HG12	1:D:352:GLY:H	1.84	0.42
1:E:636:ALA:O	1:E:640:LYS:CA	2.67	0.42
1:A:687:GLU:HA	1:A:687:GLU:OE2	2.20	0.42
1:A:636:ALA:O	1:A:640:LYS:CA	2.68	0.42
1:F:307:LEU:N	1:F:307:LEU:HD12	2.35	0.42
1:A:711:ILE:C	1:A:712:PHE:HD2	2.23	0.42
1:B:711:ILE:C	1:B:712:PHE:HD2	2.22	0.42
1:B:157:LYS:HD2	1:B:157:LYS:HA	1.86	0.42
1:E:395:GLU:N	1:E:395:GLU:OE1	2.53	0.42
1:A:191:GLU:C	1:A:193:LEU:N	2.73	0.41
1:D:169:VAL:HG23	1:D:246:SER:HB2	2.02	0.41
1:E:179:LEU:O	1:E:183:SER:HB3	1.98	0.41
1:E:184:LYS:HZ1	1:E:191:GLU:CB	2.32	0.41
1:C:115:LYS:O	1:C:117:LEU:N	2.53	0.41
1:C:97:TYR:O	1:C:100:LEU:N	2.52	0.41
1:B:136:PRO:O	1:B:138:ALA:N	2.53	0.41
1:E:252:ASP:OD2	1:E:253:HIS:CD2	2.72	0.41
1:A:674:SER:C	1:A:676:VAL:H	2.24	0.41
1:C:674:SER:C	1:C:676:VAL:H	2.23	0.41
1:A:760:VAL:O	1:A:764:LEU:HG	2.20	0.41
2:O:58:ASP:CB	2:O:62:THR:HG23	2.46	0.41
1:A:564:VAL:C	1:A:567:THR:HG22	2.41	0.41
1:C:564:VAL:C	1:C:567:THR:HG22	2.40	0.41
2:O:97:ASN:ND2	2:O:99:TYR:H	2.18	0.41
2:T:24:ASP:OD1	2:T:25:GLY:N	2.52	0.41
1:C:288:VAL:O	1:C:290:LYS:N	2.53	0.41
1:F:550:SER:OG	1:F:551:ASN:N	2.53	0.41
1:E:384:ASN:C	1:E:386:GLU:H	2.23	0.41
1:F:292:ARG:NE	1:F:617:LYS:NZ	2.68	0.41
2:T:73:ALA:O	2:T:74:ARG:C	2.58	0.41
1:C:269:ASN:O	1:C:273:LYS:HG3	2.20	0.41
1:C:711:ILE:H	1:C:711:ILE:HG12	1.68	0.41
1:E:157:LYS:HA	1:E:157:LYS:HD2	1.84	0.41
1:B:395:GLU:OE1	1:B:395:GLU:N	2.53	0.41
2:R:19:PHE:CD1	2:R:19:PHE:N	2.88	0.41
1:D:89:ILE:HG22	1:D:90:PRO:HD2	2.00	0.41
1:E:191:GLU:C	1:E:193:LEU:N	2.73	0.41
1:C:97:TYR:HD2	1:C:102:GLY:HA3	1.84	0.41
1:E:141:PHE:N	1:E:141:PHE:CD1	2.88	0.41
1:F:174:GLY:O	1:F:177:ILE:HG12	2.20	0.41
1:F:181:ILE:HG12	1:F:181:ILE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:85:LEU:HD12	1:D:168:GLU:OE1	2.21	0.41
1:A:141:PHE:N	1:A:141:PHE:CD1	2.88	0.41
2:S:9:ILE:O	2:S:10:ALA:C	2.57	0.41
2:R:97:ASN:ND2	2:R:99:TYR:H	2.17	0.41
1:E:335:ALA:O	1:E:339:ILE:HG13	2.20	0.41
1:F:663:PHE:O	1:F:664:ILE:C	2.58	0.41
1:F:478:ALA:HA	1:F:488:LEU:HG	2.02	0.41
1:E:344:ALA:HB3	1:E:488:LEU:HD23	2.01	0.41
1:D:671:ARG:NH1	1:D:671:ARG:HG3	2.35	0.41
1:E:628:PHE:CE2	2:S:90:ARG:HD3	2.35	0.41
1:A:79:ILE:C	1:A:81:GLN:N	2.72	0.41
1:C:630:ARG:HG3	1:C:630:ARG:HH11	1.85	0.41
1:C:323:ASN:O	1:C:324:THR:HG22	2.20	0.41
2:O:110:THR:O	2:O:113:GLY:N	2.47	0.41
2:O:111:ASN:C	2:O:113:GLY:N	2.73	0.41
1:C:550:SER:OG	1:C:551:ASN:N	2.53	0.41
2:Q:111:ASN:C	2:Q:113:GLY:N	2.73	0.41
2:T:111:ASN:C	2:T:113:GLY:N	2.73	0.41
1:E:323:ASN:C	1:E:323:ASN:ND2	2.73	0.41
1:F:694:VAL:CG2	2:T:18:LEU:HD21	2.50	0.41
2:R:43:PRO:CG	2:R:48:LEU:HD13	2.50	0.41
1:E:123:GLU:HG2	1:E:124:GLU:H	1.80	0.41
1:E:365:PRO:HB2	1:E:367:ASP:O	2.20	0.41
1:B:295:VAL:HG12	1:B:605:THR:HA	2.03	0.41
1:A:654:ILE:HG22	1:A:655:ASN:HD22	1.86	0.41
1:A:514:ASP:C	1:A:516:VAL:H	2.24	0.41
1:E:735:VAL:O	1:E:738:SER:HB3	2.20	0.41
1:A:482:GLU:O	1:A:484:VAL:HG23	2.20	0.41
1:E:687:GLU:HA	1:E:687:GLU:OE2	2.20	0.41
1:D:305:SER:O	1:D:307:LEU:HD12	2.20	0.41
1:C:719:LYS:HD2	1:C:797:ILE:HD11	2.02	0.41
1:E:514:ASP:C	1:E:516:VAL:H	2.24	0.41
1:F:395:GLU:OE1	1:F:395:GLU:N	2.53	0.41
1:E:218:LEU:O	1:E:218:LEU:CG	2.67	0.41
1:C:90:PRO:O	1:C:93:VAL:N	2.53	0.41
1:F:185:ASP:O	1:F:190:PRO:CA	2.67	0.41
1:A:308:VAL:O	1:A:311:HIS:N	2.42	0.41
2:S:97:ASN:ND2	2:S:99:TYR:H	2.18	0.41
1:D:405:LEU:H	1:D:405:LEU:CD1	2.31	0.41
1:E:413:LEU:N	1:E:413:LEU:HD23	2.35	0.41
1:C:478:ALA:HA	1:C:488:LEU:HG	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:674:SER:C	1:D:676:VAL:H	2.24	0.41
1:D:338:LEU:O	1:D:343:VAL:CG2	2.68	0.41
1:E:722:ILE:HD13	1:E:764:LEU:HD21	2.01	0.41
1:D:288:VAL:O	1:D:290:LYS:N	2.53	0.41
1:A:323:ASN:O	1:A:324:THR:HG22	2.20	0.41
1:A:499:PRO:HD2	1:A:625:LEU:O	2.20	0.41
1:E:538:ILE:HG21	2:S:87:GLU:HB2	2.01	0.41
2:Q:43:PRO:CG	2:Q:48:LEU:HD13	2.50	0.41
2:Q:3:GLN:N	2:Q:77:LYS:NZ	2.60	0.41
1:F:796:ILE:O	1:F:796:ILE:HG22	2.21	0.41
1:E:389:LYS:HD2	1:E:393:GLU:OE1	2.20	0.41
1:D:621:GLY:HA2	2:R:94:LYS:HZ3	1.84	0.41
1:B:514:ASP:C	1:B:516:VAL:H	2.24	0.41
2:R:73:ALA:O	2:R:74:ARG:C	2.58	0.41
1:C:427:ASP:C	1:C:429:GLY:H	2.23	0.41
1:A:218:LEU:HD21	1:A:225:ILE:CD1	2.51	0.41
1:B:149:THR:HA	1:B:150:PRO:HD2	1.95	0.41
1:E:192:PHE:HD1	1:E:192:PHE:H	1.69	0.41
1:E:225:ILE:HG23	1:E:229:PHE:CD2	2.55	0.41
1:A:136:PRO:O	1:A:138:ALA:N	2.53	0.41
1:E:732:ILE:HG23	1:E:749:PHE:HD1	1.85	0.41
1:E:749:PHE:O	1:E:750:GLN:C	2.56	0.41
1:A:725:GLY:O	1:A:728:ALA:HB3	2.20	0.41
1:B:659:THR:O	1:B:660:SER:C	2.56	0.41
2:P:11:GLU:C	2:P:13:LYS:N	2.73	0.41
1:C:767:GLN:HG2	1:C:768:LYS:HG2	2.02	0.41
1:C:311:HIS:O	1:C:314:ALA:HB3	2.19	0.41
1:F:722:ILE:HD13	1:F:764:LEU:HD21	2.01	0.41
1:F:764:LEU:O	1:F:766:HIS:N	2.53	0.41
1:D:663:PHE:O	1:D:664:ILE:C	2.58	0.41
2:R:58:ASP:CB	2:R:62:THR:HG23	2.47	0.41
2:R:100:ILE:O	2:R:136:VAL:HG22	2.20	0.41
1:B:630:ARG:CZ	2:P:83:GLU:CG	2.89	0.41
1:B:99:GLU:HG2	1:B:283:LEU:HB3	2.02	0.41
1:E:278:LYS:HB2	1:E:279:ILE:HD13	2.02	0.41
1:E:279:ILE:HD13	1:E:279:ILE:H	1.84	0.41
1:B:71:PHE:O	1:B:78:LYS:NZ	2.53	0.41
1:A:549:LEU:HB2	1:A:553:GLN:HE21	1.86	0.41
2:P:89:PHE:O	2:P:90:ARG:C	2.58	0.41
1:B:628:PHE:CE2	2:P:90:ARG:HD3	2.36	0.41
1:C:551:ASN:HD22	1:C:551:ASN:HA	1.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:550:SER:OG	1:D:551:ASN:N	2.53	0.41
2:R:111:ASN:C	2:R:113:GLY:N	2.73	0.41
1:E:323:ASN:O	1:E:324:THR:HG22	2.20	0.41
1:E:502:THR:H	1:E:502:THR:HG1	1.64	0.41
2:S:43:PRO:CG	2:S:48:LEU:HD13	2.51	0.41
2:P:42:ASN:HA	2:P:43:PRO:HD2	1.89	0.41
1:F:97:TYR:HD2	1:F:102:GLY:HA3	1.86	0.41
1:D:636:ALA:O	1:D:640:LYS:CA	2.68	0.41
1:C:444:PHE:N	1:C:444:PHE:CD1	2.88	0.41
1:F:687:GLU:HA	1:F:687:GLU:OE2	2.20	0.41
1:B:307:LEU:N	1:B:307:LEU:HD12	2.35	0.41
1:B:292:ARG:NE	1:B:617:LYS:NZ	2.68	0.41
2:S:104:GLU:H	2:S:104:GLU:HG2	1.65	0.41
1:D:580:GLU:C	1:D:582:ASP:H	2.23	0.41
1:D:794:GLN:HB3	1:D:794:GLN:HE21	1.67	0.41
1:D:105:TYR:N	1:D:152:LEU:O	2.40	0.41
1:D:90:PRO:O	1:D:93:VAL:N	2.52	0.41
1:C:199:LEU:C	1:C:201:ASP:N	2.72	0.41
1:F:254:ARG:CD	1:F:254:ARG:H	2.32	0.41
1:F:90:PRO:HG2	1:F:93:VAL:HB	2.01	0.41
1:A:659:THR:O	1:A:660:SER:C	2.58	0.41
1:C:661:ALA:O	1:C:665:LYS:HB2	2.21	0.41
2:R:28:THR:HB	2:R:30:LYS:HZ3	1.85	0.41
1:B:327:LEU:HD12	1:B:327:LEU:N	2.35	0.41
2:Q:100:ILE:O	2:Q:136:VAL:HG22	2.20	0.41
2:R:83:GLU:O	2:R:87:GLU:HG3	2.21	0.41
1:E:765:THR:HG22	1:E:769:SER:HB2	2.02	0.41
1:F:513:TRP:CD1	1:F:532:LEU:HD13	2.56	0.41
1:A:322:LEU:HD13	1:A:556:MET:HE2	2.02	0.41
2:T:110:THR:O	2:T:113:GLY:N	2.47	0.41
1:E:322:LEU:O	1:E:323:ASN:HB3	2.21	0.41
1:E:513:TRP:CD1	1:E:532:LEU:HD13	2.56	0.41
1:A:457:THR:CG2	1:A:468:LYS:HA	2.42	0.41
1:D:777:TYR:HA	1:D:780:LEU:HD23	2.02	0.41
1:B:370:LEU:HA	1:B:370:LEU:HD23	1.90	0.41
1:F:123:GLU:CG	1:F:124:GLU:H	2.32	0.41
1:D:654:ILE:HG22	1:D:655:ASN:ND2	2.35	0.41
1:E:607:ASN:HB2	1:E:610:MET:H	1.86	0.41
1:B:607:ASN:HB2	1:B:610:MET:H	1.86	0.41
1:D:76:LEU:N	1:D:76:LEU:CD2	2.81	0.41
1:C:307:LEU:N	1:C:307:LEU:HD12	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:104:GLU:HG2	2:T:104:GLU:H	1.65	0.41
2:S:102:ALA:HA	2:S:125:ILE:HG13	2.01	0.41
1:C:514:ASP:C	1:C:516:VAL:N	2.72	0.41
2:T:81:SER:O	2:T:82:GLU:C	2.59	0.41
1:B:427:ASP:C	1:B:429:GLY:H	2.24	0.41
1:A:395:GLU:N	1:A:395:GLU:OE1	2.53	0.41
1:B:199:LEU:O	1:B:201:ASP:N	2.54	0.41
1:B:218:LEU:HD21	1:B:225:ILE:CD1	2.51	0.41
1:B:97:TYR:O	1:B:100:LEU:N	2.54	0.41
1:F:85:LEU:HD12	1:F:168:GLU:OE1	2.21	0.41
1:F:173:ILE:O	1:F:176:GLY:N	2.54	0.41
1:F:169:VAL:HG23	1:F:246:SER:HB2	2.01	0.41
1:C:760:VAL:O	1:C:764:LEU:HG	2.20	0.41
1:B:288:VAL:C	1:B:290:LYS:N	2.72	0.41
1:C:323:ASN:C	1:C:324:THR:CG2	2.88	0.41
1:C:694:VAL:CG2	2:Q:18:LEU:HD21	2.50	0.41
2:P:117:THR:HG23	2:P:120:GLU:CB	2.46	0.41
1:C:123:GLU:N	1:C:123:GLU:OE2	2.44	0.41
1:B:295:VAL:HG21	1:B:603:ILE:CG2	2.50	0.41
1:F:692:GLU:HA	1:F:692:GLU:OE2	2.19	0.41
1:C:295:VAL:CG2	1:C:603:ILE:HG23	2.50	0.41
1:E:699:GLY:O	1:E:700:TYR:C	2.58	0.41
1:E:122:GLU:HG3	1:E:147:ARG:H	1.85	0.41
1:C:454:GLN:CB	1:C:472:ARG:O	2.69	0.41
1:E:305:SER:O	1:E:307:LEU:HD12	2.21	0.41
1:B:636:ALA:O	1:B:640:LYS:CA	2.68	0.41
2:O:143:GLN:O	2:O:147:ALA:CB	2.69	0.41
1:E:546:LYS:NZ	1:E:554:LYS:HE2	2.34	0.41
2:O:81:SER:O	2:O:82:GLU:C	2.59	0.41
1:D:493:ASP:OD2	1:D:577:HIS:CE1	2.72	0.41
1:C:561:ASN:OD1	1:C:574:VAL:N	2.42	0.41
1:A:217:LYS:HB2	1:A:236:GLU:OE1	2.21	0.41
1:F:131:ARG:HB2	1:F:170:TYR:CZ	2.56	0.41
1:D:252:ASP:OD2	1:D:253:HIS:CD2	2.73	0.41
1:A:254:ARG:NH1	1:A:254:ARG:HB3	2.34	0.41
1:B:254:ARG:CD	1:B:254:ARG:H	2.32	0.41
1:C:732:ILE:HG23	1:C:749:PHE:HD1	1.86	0.41
1:A:732:ILE:HG23	1:A:749:PHE:HD1	1.85	0.41
1:A:745:TYR:O	1:A:749:PHE:HD2	2.03	0.41
1:C:671:ARG:HG3	1:C:671:ARG:HH11	1.85	0.41
1:E:564:VAL:C	1:E:567:THR:HG22	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:581:GLN:HE22	1:F:632:TYR:HE1	1.69	0.41
1:C:630:ARG:HG3	1:C:630:ARG:NH1	2.34	0.41
1:F:323:ASN:C	1:F:324:THR:CG2	2.88	0.41
1:F:322:LEU:O	1:F:323:ASN:HB3	2.21	0.41
1:F:549:LEU:HB2	1:F:553:GLN:HE21	1.86	0.41
1:E:777:TYR:HA	1:E:780:LEU:HD23	2.02	0.41
1:B:373:LYS:O	1:B:380:VAL:CG2	2.69	0.41
1:B:796:ILE:O	1:B:796:ILE:HG22	2.21	0.41
1:F:384:ASN:C	1:F:386:GLU:H	2.23	0.41
1:B:514:ASP:C	1:B:516:VAL:N	2.73	0.41
1:A:516:VAL:O	1:A:519:THR:HG22	2.21	0.41
1:B:691:LYS:O	1:B:692:GLU:C	2.59	0.41
1:B:515:LYS:HZ3	1:B:515:LYS:HB3	1.84	0.41
1:C:350:VAL:HG12	1:C:352:GLY:H	1.85	0.41
1:D:639:ASN:HD22	1:D:640:LYS:N	2.19	0.41
1:D:454:GLN:CB	1:D:472:ARG:O	2.69	0.41
1:A:480:ASN:HD22	1:A:480:ASN:C	2.23	0.41
2:S:73:ALA:O	2:S:75:LYS:N	2.52	0.41
1:B:546:LYS:NZ	1:B:554:LYS:HE2	2.35	0.41
1:E:444:PHE:CD1	1:E:444:PHE:N	2.88	0.41
1:A:144:GLU:HB3	1:A:177:ILE:HD11	2.03	0.41
1:B:178:SER:OG	1:B:179:LEU:N	2.53	0.41
1:B:169:VAL:HG23	1:B:246:SER:HB2	2.03	0.41
1:D:191:GLU:C	1:D:193:LEU:N	2.74	0.41
1:B:296:LEU:CD2	1:B:296:LEU:N	2.38	0.41
1:A:161:ILE:O	1:A:161:ILE:CG2	2.69	0.41
1:D:743:PRO:O	1:D:744:GLU:C	2.59	0.41
1:D:749:PHE:O	1:D:750:GLN:C	2.57	0.41
2:P:24:ASP:OD1	2:P:25:GLY:N	2.54	0.41
1:C:668:SER:OG	2:Q:10:ALA:HB1	2.20	0.41
1:A:338:LEU:O	1:A:343:VAL:CG2	2.68	0.41
1:C:659:THR:O	1:C:660:SER:C	2.57	0.41
1:F:435:LEU:HG	1:F:446:ILE:HG22	2.02	0.41
1:D:715:GLU:OE1	1:D:767:GLN:NE2	2.54	0.41
1:D:760:VAL:O	1:D:764:LEU:HG	2.20	0.41
2:R:24:ASP:OD1	2:R:25:GLY:N	2.53	0.41
1:B:338:LEU:O	1:B:343:VAL:CG2	2.68	0.41
1:B:478:ALA:HA	1:B:488:LEU:HG	2.02	0.41
1:D:343:VAL:HG12	1:D:344:ALA:N	2.35	0.41
1:E:760:VAL:O	1:E:764:LEU:HG	2.21	0.41
1:D:581:GLN:HE22	1:D:632:TYR:HE1	1.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:550:SER:OG	1:B:551:ASN:N	2.54	0.41
1:F:323:ASN:O	1:F:324:THR:HG22	2.21	0.41
1:D:81:GLN:NE2	1:D:156:ILE:HG21	2.35	0.41
2:S:110:THR:O	2:S:113:GLY:N	2.48	0.41
1:F:81:GLN:NE2	1:F:156:ILE:HG21	2.35	0.41
1:F:777:TYR:HA	1:F:780:LEU:HD23	2.02	0.41
1:B:384:ASN:C	1:B:386:GLU:H	2.24	0.41
1:C:257:LEU:CD1	1:C:261:ALA:HB3	2.46	0.41
1:F:389:LYS:HD2	1:F:393:GLU:OE1	2.20	0.41
1:B:654:ILE:HG22	1:B:655:ASN:HD22	1.86	0.41
1:C:332:ASN:OD1	1:C:334:LEU:CD1	2.67	0.41
1:B:699:GLY:O	1:B:700:TYR:C	2.58	0.41
1:A:472:ARG:CB	1:A:472:ARG:HH11	2.34	0.41
1:B:454:GLN:CB	1:B:472:ARG:O	2.69	0.41
1:E:648:PRO:O	1:E:651:LYS:CB	2.69	0.41
1:F:472:ARG:HH11	1:F:472:ARG:CB	2.34	0.41
2:Q:102:ALA:HA	2:Q:125:ILE:HG13	2.01	0.41
2:R:81:SER:O	2:R:82:GLU:C	2.59	0.41
1:F:444:PHE:CD1	1:F:444:PHE:N	2.89	0.41
1:F:461:LYS:HA	1:F:461:LYS:HD2	1.79	0.41
1:A:551:ASN:HA	1:A:551:ASN:HD22	1.56	0.41
1:A:173:ILE:O	1:A:176:GLY:N	2.54	0.41
1:A:174:GLY:O	1:A:177:ILE:HG12	2.20	0.41
1:B:175:LYS:HZ3	1:B:175:LYS:CB	2.28	0.41
1:B:217:LYS:HB2	1:B:236:GLU:OE1	2.20	0.41
1:D:131:ARG:CB	1:D:170:TYR:OH	2.69	0.41
1:D:218:LEU:HD21	1:D:225:ILE:CD1	2.50	0.41
1:D:239:HIS:O	1:D:243:LEU:HD12	2.21	0.41
1:D:90:PRO:HG2	1:D:93:VAL:HB	2.02	0.41
1:E:180:ASP:CG	1:E:181:ILE:N	2.67	0.41
1:E:218:LEU:HD21	1:E:225:ILE:CD1	2.51	0.41
1:E:90:PRO:O	1:E:93:VAL:N	2.53	0.41
1:E:97:TYR:O	1:E:100:LEU:N	2.54	0.41
1:C:169:VAL:HG23	1:C:246:SER:HB2	2.02	0.41
1:C:88:LYS:NZ	1:C:172:GLU:CD	2.74	0.41
1:C:217:LYS:HB2	1:C:236:GLU:OE1	2.21	0.41
1:F:252:ASP:OD2	1:F:253:HIS:CD2	2.73	0.41
1:D:161:ILE:CG2	1:D:161:ILE:O	2.69	0.41
1:C:743:PRO:O	1:C:744:GLU:C	2.59	0.41
1:E:668:SER:OG	2:S:10:ALA:HB1	2.21	0.41
1:F:674:SER:C	1:F:676:VAL:H	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:671:ARG:HD2	2:P:14:GLU:HG2	2.02	0.41
1:D:668:SER:OG	2:R:10:ALA:CB	2.69	0.41
1:A:660:SER:O	1:A:663:PHE:HB3	2.21	0.41
1:F:136:PRO:O	1:F:138:ALA:N	2.54	0.41
2:Q:24:ASP:OD1	2:Q:25:GLY:N	2.54	0.41
2:Q:58:ASP:CB	2:Q:62:THR:HG23	2.46	0.41
1:D:136:PRO:O	1:D:138:ALA:N	2.54	0.41
1:F:659:THR:O	1:F:660:SER:C	2.58	0.41
1:F:635:ILE:N	1:F:635:ILE:CD1	2.79	0.41
2:P:12:PHE:HZ	2:P:76:MET:CE	2.34	0.41
1:C:759:GLN:NE2	1:C:759:GLN:CA	2.81	0.41
2:P:28:THR:HB	2:P:30:LYS:HZ3	1.85	0.41
1:F:759:GLN:NE2	1:F:759:GLN:CA	2.82	0.41
1:E:279:ILE:H	1:E:279:ILE:CD1	2.29	0.41
1:C:413:LEU:HD23	1:C:413:LEU:N	2.35	0.41
1:D:759:GLN:HA	1:D:759:GLN:NE2	2.21	0.41
1:A:463:THR:O	1:A:466:GLY:N	2.50	0.41
2:T:89:PHE:O	2:T:91:VAL:N	2.54	0.41
1:D:323:ASN:C	1:D:324:THR:CG2	2.89	0.41
1:D:322:LEU:O	1:D:323:ASN:HB3	2.21	0.41
1:A:288:VAL:CG2	1:A:289:GLU:N	2.75	0.41
1:C:549:LEU:HB2	1:C:553:GLN:HE21	1.86	0.41
2:S:18:LEU:HD23	2:S:18:LEU:HA	1.83	0.41
1:C:81:GLN:NE2	1:C:156:ILE:HG21	2.35	0.41
2:O:43:PRO:HG3	2:O:48:LEU:HD13	2.01	0.41
2:S:3:GLN:N	2:S:77:LYS:NZ	2.61	0.41
2:Q:42:ASN:HA	2:Q:43:PRO:HD2	1.93	0.41
2:P:43:PRO:CG	2:P:48:LEU:HD13	2.50	0.41
2:P:43:PRO:HG3	2:P:48:LEU:HD13	2.01	0.41
1:D:148:GLU:HG3	1:D:149:THR:H	1.83	0.41
1:D:389:LYS:HD2	1:D:393:GLU:OE1	2.21	0.41
1:B:389:LYS:HD2	1:B:393:GLU:OE1	2.20	0.41
1:F:149:THR:HA	1:F:150:PRO:HD2	1.94	0.41
1:C:654:ILE:HG22	1:C:655:ASN:ND2	2.35	0.41
1:E:609:GLU:O	1:E:610:MET:C	2.58	0.41
1:F:621:GLY:HA2	2:T:94:LYS:NZ	2.36	0.41
1:F:350:VAL:HG12	1:F:352:GLY:H	1.85	0.41
1:E:639:ASN:ND2	1:E:639:ASN:C	2.74	0.41
1:E:639:ASN:HD22	1:E:640:LYS:N	2.19	0.41
1:D:648:PRO:O	1:D:651:LYS:CB	2.69	0.41
1:B:480:ASN:HD22	1:B:480:ASN:C	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:454:GLN:CB	1:F:472:ARG:O	2.69	0.41
1:F:305:SER:O	1:F:307:LEU:HD12	2.21	0.41
1:A:719:LYS:HD2	1:A:797:ILE:HD11	2.03	0.41
1:F:269:ASN:O	1:F:273:LYS:HG3	2.21	0.41
2:Q:19:PHE:CD1	2:Q:19:PHE:N	2.88	0.41
1:E:551:ASN:HA	1:E:551:ASN:HD22	1.56	0.41
1:D:395:GLU:OE1	1:D:395:GLU:N	2.54	0.41
1:D:622:LYS:HA	1:D:622:LYS:HD3	1.30	0.41
1:F:561:ASN:OD1	1:F:574:VAL:N	2.41	0.41
1:A:130:SER:O	1:A:131:ARG:C	2.60	0.41
1:B:184:LYS:HE2	1:B:193:LEU:CD1	2.51	0.41
1:D:88:LYS:NZ	1:D:172:GLU:CD	2.74	0.41
1:E:104:ILE:HG23	1:E:152:LEU:HD22	2.01	0.41
1:C:131:ARG:HB2	1:C:170:TYR:OH	2.21	0.41
1:C:184:LYS:HE2	1:C:193:LEU:HD12	2.03	0.41
1:C:218:LEU:O	1:C:218:LEU:CG	2.67	0.41
1:E:136:PRO:O	1:E:138:ALA:N	2.54	0.41
1:B:741:ILE:O	1:B:742:ALA:O	2.39	0.41
1:E:254:ARG:CD	1:E:254:ARG:H	2.32	0.41
1:E:743:PRO:O	1:E:744:GLU:C	2.59	0.41
2:P:55:VAL:CG2	2:P:67:GLU:OE1	2.67	0.41
1:C:656:THR:O	1:C:755:ARG:NH1	2.54	0.41
2:R:13:LYS:NZ	2:R:65:PHE:CB	2.73	0.41
1:F:413:LEU:HD23	1:F:413:LEU:N	2.35	0.41
1:C:581:GLN:HE22	1:C:632:TYR:HE1	1.68	0.41
1:A:322:LEU:O	1:A:323:ASN:HB3	2.21	0.41
1:B:499:PRO:HD2	1:B:625:LEU:O	2.21	0.41
2:S:48:LEU:HA	2:S:51:MET:CE	2.51	0.41
1:D:373:LYS:O	1:D:380:VAL:CG2	2.69	0.41
1:E:735:VAL:O	1:E:738:SER:CB	2.69	0.41
1:F:639:ASN:HD22	1:F:640:LYS:N	2.19	0.41
1:C:444:PHE:HA	1:C:454:GLN:O	2.21	0.41
1:A:639:ASN:HD22	1:A:640:LYS:N	2.19	0.41
1:E:523:LEU:HD22	2:S:127:GLU:CD	2.41	0.41
1:B:713:SER:O	1:B:714:GLN:C	2.58	0.41
1:B:444:PHE:CD1	1:B:444:PHE:N	2.88	0.41
1:A:89:ILE:CG2	1:A:93:VAL:HG11	2.40	0.40
1:E:240:ALA:O	1:E:241:PHE:C	2.60	0.40
1:E:90:PRO:HD3	1:E:249:PHE:CE2	2.56	0.40
1:D:296:LEU:CD2	1:D:296:LEU:N	2.38	0.40
1:B:665:LYS:O	1:B:668:SER:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:10:ALA:O	2:Q:14:GLU:HB2	2.21	0.40
1:D:403:LEU:CG	1:D:405:LEU:CD1	2.99	0.40
1:E:596:ILE:HG22	1:E:596:ILE:O	2.20	0.40
1:E:630:ARG:NH1	1:E:630:ARG:HG3	2.37	0.40
1:D:323:ASN:O	1:D:324:THR:HG22	2.21	0.40
1:F:499:PRO:HD2	1:F:625:LEU:O	2.21	0.40
2:Q:18:LEU:HA	2:Q:18:LEU:HD23	1.83	0.40
1:C:777:TYR:HA	1:C:780:LEU:HD23	2.01	0.40
1:A:777:TYR:HA	1:A:780:LEU:HD23	2.03	0.40
1:C:501:LEU:CD1	2:Q:108:VAL:HG13	2.50	0.40
1:B:345:THR:CG2	1:B:491:ASP:HA	2.51	0.40
1:D:122:GLU:HG3	1:D:147:ARG:H	1.85	0.40
1:F:636:ALA:O	1:F:640:LYS:CA	2.69	0.40
1:C:461:LYS:HD2	1:C:461:LYS:HA	1.79	0.40
2:S:71:MET:O	2:S:71:MET:HG2	2.21	0.40
1:A:184:LYS:HE2	1:A:193:LEU:CD1	2.51	0.40
1:A:91:LYS:O	1:A:94:LEU:HB2	2.21	0.40
1:D:239:HIS:O	1:D:243:LEU:HG	2.22	0.40
1:E:144:GLU:HB3	1:E:177:ILE:HD11	2.04	0.40
1:F:187:SER:O	1:F:188:LEU:C	2.51	0.40
1:B:760:VAL:O	1:B:764:LEU:HG	2.21	0.40
1:C:668:SER:OG	2:Q:10:ALA:CB	2.69	0.40
2:R:10:ALA:O	2:R:14:GLU:HB2	2.20	0.40
1:A:767:GLN:HG2	1:A:768:LYS:HG2	2.02	0.40
1:A:335:ALA:O	1:A:339:ILE:HG13	2.21	0.40
1:C:310:GLU:O	1:C:314:ALA:HB2	2.21	0.40
1:D:661:ALA:O	1:D:665:LYS:HB2	2.22	0.40
1:B:632:TYR:O	1:B:633:ASN:CB	2.69	0.40
2:T:100:ILE:O	2:T:136:VAL:HG22	2.21	0.40
1:D:513:TRP:CD1	1:D:532:LEU:HD13	2.57	0.40
1:B:513:TRP:CD1	1:B:532:LEU:HD13	2.56	0.40
1:C:538:ILE:HG21	2:Q:87:GLU:HB2	2.03	0.40
2:T:48:LEU:HA	2:T:51:MET:CE	2.51	0.40
1:A:514:ASP:C	1:A:516:VAL:N	2.73	0.40
1:C:636:ALA:O	1:C:640:LYS:CA	2.69	0.40
1:C:397:GLU:O	1:C:480:ASN:N	2.55	0.40
1:E:454:GLN:CB	1:E:472:ARG:O	2.69	0.40
2:R:102:ALA:CA	2:R:125:ILE:HG13	2.52	0.40
1:E:269:ASN:O	1:E:273:LYS:HG3	2.21	0.40
1:B:683:GLY:O	1:B:684:ASP:C	2.60	0.40
2:Q:81:SER:O	2:Q:82:GLU:C	2.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:580:GLU:C	1:F:582:ASP:H	2.23	0.40
1:A:580:GLU:C	1:A:582:ASP:H	2.23	0.40
1:D:444:PHE:N	1:D:444:PHE:CD1	2.88	0.40
2:P:71:MET:HG2	2:P:71:MET:O	2.21	0.40
1:B:580:GLU:C	1:B:582:ASP:H	2.23	0.40
1:B:115:LYS:O	1:B:117:LEU:N	2.54	0.40
1:E:239:HIS:O	1:E:243:LEU:HG	2.22	0.40
1:F:743:PRO:O	1:F:744:GLU:C	2.59	0.40
1:F:732:ILE:HG23	1:F:749:PHE:HD1	1.86	0.40
1:A:665:LYS:O	1:A:668:SER:HB3	2.21	0.40
1:A:715:GLU:OE1	1:A:767:GLN:NE2	2.54	0.40
1:A:310:GLU:O	1:A:314:ALA:HB2	2.22	0.40
1:B:308:VAL:O	1:B:311:HIS:N	2.42	0.40
1:B:635:ILE:CD1	1:B:635:ILE:H	2.16	0.40
2:O:5:THR:O	2:O:6:GLU:C	2.60	0.40
1:C:136:PRO:O	1:C:138:ALA:N	2.55	0.40
1:D:677:GLY:HA2	1:D:745:TYR:OH	2.20	0.40
1:A:759:GLN:HA	1:A:759:GLN:NE2	2.22	0.40
1:A:630:ARG:HH11	1:A:630:ARG:HG3	1.87	0.40
1:A:632:TYR:O	1:A:633:ASN:CB	2.70	0.40
1:B:288:VAL:O	1:B:290:LYS:N	2.54	0.40
1:F:71:PHE:O	1:F:78:LYS:NZ	2.54	0.40
2:P:48:LEU:HA	2:P:51:MET:CE	2.50	0.40
1:A:391:ILE:O	1:A:392:THR:C	2.60	0.40
1:C:373:LYS:O	1:C:380:VAL:CG2	2.69	0.40
1:F:373:LYS:O	1:F:380:VAL:CG2	2.69	0.40
1:D:609:GLU:O	1:D:613:ARG:N	2.49	0.40
1:E:332:ASN:OD1	1:E:334:LEU:N	2.47	0.40
1:D:99:GLU:OE2	1:D:284:LYS:HE3	2.21	0.40
1:C:85:LEU:HD12	1:C:85:LEU:HA	1.81	0.40
1:B:639:ASN:C	1:B:639:ASN:ND2	2.74	0.40
1:D:472:ARG:HH11	1:D:472:ARG:CB	2.34	0.40
1:C:472:ARG:HH11	1:C:472:ARG:CB	2.34	0.40
1:B:472:ARG:HH11	1:B:472:ARG:CB	2.35	0.40
1:F:719:LYS:HD2	1:F:797:ILE:HD11	2.03	0.40
1:A:269:ASN:O	1:A:273:LYS:HG3	2.21	0.40
1:A:444:PHE:CD1	1:A:444:PHE:N	2.89	0.40
2:P:19:PHE:CD1	2:P:19:PHE:N	2.89	0.40
1:B:239:HIS:O	1:B:243:LEU:HD12	2.21	0.40
1:E:189:ASP:O	1:E:190:PRO:C	2.59	0.40
1:C:239:HIS:O	1:C:243:LEU:HG	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:88:LYS:HB3	1:F:88:LYS:HE3	1.89	0.40
1:F:91:LYS:O	1:F:94:LEU:HB2	2.21	0.40
1:D:254:ARG:NH1	1:D:254:ARG:HB3	2.34	0.40
1:F:671:ARG:HG3	1:F:671:ARG:HH11	1.85	0.40
1:C:671:ARG:HD2	2:Q:14:GLU:HG2	2.04	0.40
1:A:337:ASN:C	1:A:339:ILE:N	2.75	0.40
1:F:663:PHE:CE1	1:F:752:LEU:HD11	2.56	0.40
1:D:767:GLN:HG2	1:D:768:LYS:HG2	2.02	0.40
2:T:30:LYS:HE2	2:T:30:LYS:HB2	1.95	0.40
2:P:30:LYS:H	2:P:30:LYS:CD	2.13	0.40
1:C:513:TRP:CD1	1:C:532:LEU:HD13	2.57	0.40
1:D:796:ILE:O	1:D:796:ILE:HG22	2.21	0.40
2:S:36:MET:HE1	2:S:43:PRO:HG3	2.00	0.40
2:P:18:LEU:HA	2:P:18:LEU:HD23	1.83	0.40
1:E:378:LEU:HA	1:E:381:GLU:HB3	2.03	0.40
1:C:368:GLN:C	1:C:370:LEU:H	2.24	0.40
2:O:108:VAL:HG12	2:O:112:LEU:HD12	2.04	0.40
1:D:332:ASN:OD1	1:D:334:LEU:CD1	2.67	0.40
1:F:690:LYS:O	1:F:693:SER:HB3	2.21	0.40
1:B:305:SER:O	1:B:307:LEU:HD12	2.21	0.40
1:A:305:SER:O	1:A:307:LEU:HD12	2.21	0.40
2:R:143:GLN:O	2:R:147:ALA:CB	2.70	0.40
1:D:719:LYS:O	1:D:720:ILE:C	2.60	0.40
1:F:748:TYR:O	1:F:751:TYR:HB3	2.22	0.40
2:T:39:LEU:HA	2:T:39:LEU:HD23	1.84	0.40
1:C:622:LYS:HA	1:C:622:LYS:HD3	1.93	0.40
1:F:188:LEU:HD22	1:F:188:LEU:H	1.75	0.40
1:D:161:ILE:HG21	1:D:168:GLU:HB2	2.03	0.40
1:D:85:LEU:HD12	1:D:85:LEU:HA	1.82	0.40
1:B:743:PRO:O	1:B:744:GLU:C	2.60	0.40
1:B:749:PHE:O	1:B:750:GLN:C	2.57	0.40
2:T:5:THR:O	2:T:6:GLU:C	2.60	0.40
1:B:671:ARG:HG3	1:B:671:ARG:HH11	1.86	0.40
2:P:10:ALA:O	2:P:14:GLU:HB2	2.20	0.40
1:E:311:HIS:O	1:E:314:ALA:HB3	2.21	0.40
1:B:311:HIS:O	1:B:314:ALA:HB3	2.22	0.40
1:A:426:ILE:HA	1:A:426:ILE:HD13	1.92	0.40
2:O:9:ILE:HD12	2:O:69:LEU:HD22	2.04	0.40
1:B:596:ILE:HG22	1:B:596:ILE:O	2.20	0.40
1:E:479:LYS:CG	1:E:488:LEU:HD21	2.41	0.40
1:F:629:ASN:ND2	1:F:630:ARG:N	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:71:PHE:O	1:A:78:LYS:NZ	2.54	0.40
1:F:288:VAL:O	1:F:290:LYS:N	2.54	0.40
1:D:789:ASN:O	1:D:792:VAL:HB	2.22	0.40
1:E:525:LYS:HE2	2:S:114:GLU:CG	2.50	0.40
1:E:499:PRO:HD2	1:E:625:LEU:O	2.22	0.40
2:O:48:LEU:HA	2:O:51:MET:CE	2.51	0.40
2:R:48:LEU:HA	2:R:51:MET:CE	2.52	0.40
1:A:796:ILE:O	1:A:796:ILE:HG22	2.22	0.40
1:C:384:ASN:C	1:C:386:GLU:H	2.23	0.40
1:C:389:LYS:HD2	1:C:393:GLU:OE1	2.21	0.40
1:D:691:LYS:O	1:D:692:GLU:C	2.58	0.40
1:C:699:GLY:O	1:C:700:TYR:C	2.59	0.40
1:B:516:VAL:O	1:B:519:THR:HG22	2.22	0.40
1:A:654:ILE:HG22	1:A:655:ASN:ND2	2.36	0.40
2:T:124:MET:O	2:T:126:ARG:N	2.54	0.40
1:F:397:GLU:HA	1:F:480:ASN:HB2	2.04	0.40
1:C:687:GLU:HA	1:C:687:GLU:OE2	2.21	0.40
1:A:719:LYS:O	1:A:720:ILE:C	2.60	0.40
1:E:685:LYS:HA	1:E:685:LYS:HD3	1.91	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

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	733/777 (94%)	512 (70%)	172 (24%)	49 (7%)	1	16
1	B	733/777 (94%)	512 (70%)	172 (24%)	49 (7%)	1	16
1	C	733/777 (94%)	510 (70%)	172 (24%)	51 (7%)	1	15
1	D	733/777 (94%)	516 (70%)	168 (23%)	49 (7%)	1	16
1	E	733/777 (94%)	512 (70%)	171 (23%)	50 (7%)	1	16

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	F	733/777 (94%)	513 (70%)	169 (23%)	51 (7%)	1	15
2	O	144/149 (97%)	100 (69%)	35 (24%)	9 (6%)	2	18
2	P	144/149 (97%)	102 (71%)	33 (23%)	9 (6%)	2	18
2	Q	144/149 (97%)	102 (71%)	33 (23%)	9 (6%)	2	18
2	R	144/149 (97%)	102 (71%)	33 (23%)	9 (6%)	2	18
2	S	144/149 (97%)	102 (71%)	33 (23%)	9 (6%)	2	18
2	T	144/149 (97%)	100 (69%)	35 (24%)	9 (6%)	2	18
All	All	5262/5556 (95%)	3683 (70%)	1226 (23%)	353 (7%)	1	16

All (353) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	137	PHE
1	A	183	SER
1	A	377	GLN
1	A	510	GLN
1	A	787	THR
1	B	137	PHE
1	B	183	SER
1	B	192	PHE
1	B	377	GLN
1	B	510	GLN
1	B	787	THR
1	C	137	PHE
1	C	181	ILE
1	C	183	SER
1	C	192	PHE
1	C	377	GLN
1	C	510	GLN
1	C	787	THR
1	D	137	PHE
1	D	183	SER
1	D	377	GLN
1	D	510	GLN
1	D	787	THR
1	E	137	PHE
1	E	183	SER
1	E	192	PHE
1	E	377	GLN
1	E	510	GLN

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Mol	Chain	Res	Type
1	E	787	THR
1	F	137	PHE
1	F	181	ILE
1	F	192	PHE
1	F	377	GLN
1	F	510	GLN
1	F	787	THR
1	A	80	GLN
1	A	113	GLU
1	A	116	GLU
1	A	138	ALA
1	A	165	GLN
1	A	176	GLY
1	A	181	ILE
1	A	187	SER
1	A	192	PHE
1	A	302	LEU
1	A	376	GLN
1	A	385	LEU
1	A	438	ASN
1	A	580	GLU
1	A	756	ILE
1	A	765	THR
1	B	80	GLN
1	B	113	GLU
1	B	116	GLU
1	B	138	ALA
1	B	165	GLN
1	B	176	GLY
1	B	181	ILE
1	B	187	SER
1	B	302	LEU
1	B	376	GLN
1	B	385	LEU
1	B	438	ASN
1	B	580	GLU
1	B	620	THR
1	B	756	ILE
1	B	765	THR
1	C	80	GLN
1	C	113	GLU
1	C	116	GLU

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Mol	Chain	Res	Type
1	C	138	ALA
1	C	165	GLN
1	C	176	GLY
1	C	187	SER
1	C	302	LEU
1	C	376	GLN
1	C	385	LEU
1	C	438	ASN
1	C	580	GLU
1	C	620	THR
1	C	765	THR
1	D	80	GLN
1	D	113	GLU
1	D	116	GLU
1	D	138	ALA
1	D	165	GLN
1	D	176	GLY
1	D	181	ILE
1	D	187	SER
1	D	192	PHE
1	D	302	LEU
1	D	376	GLN
1	D	385	LEU
1	D	438	ASN
1	D	580	GLU
1	D	756	ILE
1	D	765	THR
1	E	80	GLN
1	E	113	GLU
1	E	116	GLU
1	E	138	ALA
1	E	165	GLN
1	E	176	GLY
1	E	181	ILE
1	E	187	SER
1	E	302	LEU
1	E	376	GLN
1	E	385	LEU
1	E	438	ASN
1	E	580	GLU
1	E	765	THR
1	F	80	GLN

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Mol	Chain	Res	Type
1	F	113	GLU
1	F	116	GLU
1	F	138	ALA
1	F	165	GLN
1	F	176	GLY
1	F	187	SER
1	F	302	LEU
1	F	376	GLN
1	F	385	LEU
1	F	438	ASN
1	F	580	GLU
1	F	756	ILE
1	F	765	THR
2	O	12	PHE
2	O	22	ASP
2	O	23	GLY
2	P	12	PHE
2	P	22	ASP
2	P	23	GLY
2	Q	12	PHE
2	Q	22	ASP
2	Q	23	GLY
2	R	12	PHE
2	R	22	ASP
2	R	23	GLY
2	S	12	PHE
2	S	22	ASP
2	S	23	GLY
2	T	12	PHE
2	T	22	ASP
2	T	23	GLY
1	A	84	ASP
1	A	180	ASP
1	A	290	LYS
1	A	392	THR
1	A	413	LEU
1	A	451	ASN
1	A	620	THR
1	A	646	THR
1	B	84	ASP
1	B	180	ASP
1	B	290	LYS

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Mol	Chain	Res	Type
1	B	392	THR
1	B	413	LEU
1	B	451	ASN
1	B	646	THR
1	C	84	ASP
1	C	180	ASP
1	C	290	LYS
1	C	392	THR
1	C	413	LEU
1	C	451	ASN
1	C	646	THR
1	C	756	ILE
1	D	84	ASP
1	D	180	ASP
1	D	290	LYS
1	D	392	THR
1	D	413	LEU
1	D	451	ASN
1	D	620	THR
1	D	646	THR
1	E	84	ASP
1	E	180	ASP
1	E	290	LYS
1	E	392	THR
1	E	413	LEU
1	E	451	ASN
1	E	620	THR
1	E	646	THR
1	E	756	ILE
1	F	84	ASP
1	F	180	ASP
1	F	183	SER
1	F	290	LYS
1	F	392	THR
1	F	413	LEU
1	F	451	ASN
1	F	620	THR
1	F	646	THR
2	O	74	ARG
2	Q	74	ARG
2	R	74	ARG
2	T	74	ARG

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Mol	Chain	Res	Type
1	A	91	LYS
1	A	274	GLY
1	A	515	LYS
1	A	598	PRO
1	A	675	ASN
1	A	731	GLU
1	A	755	ARG
1	B	91	LYS
1	B	112	VAL
1	B	274	GLY
1	B	515	LYS
1	B	598	PRO
1	B	675	ASN
1	B	731	GLU
1	B	755	ARG
1	C	131	ARG
1	C	274	GLY
1	C	515	LYS
1	C	598	PRO
1	C	675	ASN
1	C	755	ARG
1	D	274	GLY
1	D	515	LYS
1	D	598	PRO
1	D	675	ASN
1	D	755	ARG
1	E	190	PRO
1	E	274	GLY
1	E	515	LYS
1	E	598	PRO
1	E	675	ASN
1	E	755	ARG
1	F	91	LYS
1	F	274	GLY
1	F	334	LEU
1	F	515	LYS
1	F	598	PRO
1	F	675	ASN
1	F	755	ARG
2	O	147	ALA
2	P	74	ARG
2	S	74	ARG

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Mol	Chain	Res	Type
1	A	100	LEU
1	A	232	GLU
1	A	278	LYS
1	A	334	LEU
1	A	449	GLU
1	A	506	LYS
1	A	520	PRO
1	B	100	LEU
1	B	232	GLU
1	B	278	LYS
1	B	334	LEU
1	B	449	GLU
1	B	520	PRO
1	B	779	GLN
1	C	91	LYS
1	C	100	LEU
1	C	232	GLU
1	C	278	LYS
1	C	334	LEU
1	C	506	LYS
1	C	520	PRO
1	C	779	GLN
1	D	91	LYS
1	D	100	LEU
1	D	232	GLU
1	D	334	LEU
1	D	520	PRO
1	D	731	GLU
1	D	779	GLN
1	E	91	LYS
1	E	100	LEU
1	E	112	VAL
1	E	232	GLU
1	E	278	LYS
1	E	334	LEU
1	E	449	GLU
1	E	506	LYS
1	E	520	PRO
1	E	731	GLU
1	E	779	GLN
1	F	100	LEU
1	F	190	PRO

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Mol	Chain	Res	Type
1	F	232	GLU
1	F	449	GLU
1	F	506	LYS
1	F	520	PRO
1	F	731	GLU
1	F	779	GLN
2	O	24	ASP
2	P	24	ASP
2	P	147	ALA
2	Q	24	ASP
2	Q	147	ALA
2	R	24	ASP
2	R	147	ALA
2	S	24	ASP
2	S	147	ALA
2	T	24	ASP
2	T	147	ALA
1	A	779	GLN
1	B	506	LYS
1	B	742	ALA
1	C	423	LYS
1	C	449	GLU
1	C	731	GLU
1	D	278	LYS
1	D	369	ASP
1	D	449	GLU
1	F	278	LYS
1	F	423	LYS
1	F	742	ALA
2	P	61	GLY
2	Q	61	GLY
2	R	61	GLY
2	S	61	GLY
2	T	61	GLY
1	A	112	VAL
1	A	742	ALA
1	C	742	ALA
1	D	742	ALA
1	E	742	ALA
2	O	61	GLY
1	A	309	PRO
1	B	309	PRO

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Mol	Chain	Res	Type
1	C	190	PRO
1	D	309	PRO
1	E	309	PRO
2	O	25	GLY
2	P	25	GLY
2	Q	25	GLY
2	R	25	GLY
2	S	25	GLY
2	T	25	GLY
1	A	441	VAL
1	B	441	VAL
1	C	309	PRO
1	C	441	VAL
1	D	441	VAL
1	E	441	VAL
1	F	112	VAL
1	F	309	PRO
1	F	441	VAL
2	T	125	ILE
1	A	637	PRO
1	B	637	PRO
1	C	637	PRO
2	P	125	ILE
2	Q	125	ILE
2	S	125	ILE
1	D	112	VAL
1	D	637	PRO
1	E	637	PRO
1	F	637	PRO
2	O	125	ILE
2	R	125	ILE

### 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.

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	664/705 (94%)	575 (87%)	89 (13%)	5 24
1	B	664/705 (94%)	569 (86%)	95 (14%)	4 22
1	C	664/705 (94%)	574 (86%)	90 (14%)	5 24
1	D	664/705 (94%)	572 (86%)	92 (14%)	4 23
1	E	664/705 (94%)	571 (86%)	93 (14%)	4 23
1	F	664/705 (94%)	570 (86%)	94 (14%)	4 22
2	O	123/127 (97%)	104 (85%)	19 (15%)	3 18
2	P	123/127 (97%)	104 (85%)	19 (15%)	3 18
2	Q	123/127 (97%)	104 (85%)	19 (15%)	3 18
2	R	123/127 (97%)	104 (85%)	19 (15%)	3 18
2	S	123/127 (97%)	105 (85%)	18 (15%)	4 21
2	T	123/127 (97%)	105 (85%)	18 (15%)	4 21
All	All	4722/4992 (95%)	4057 (86%)	665 (14%)	4 22

All (665) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	71	PHE
1	A	78	LYS
1	A	88	LYS
1	A	97	TYR
1	A	110	ASP
1	A	112	VAL
1	A	114	HIS
1	A	115	LYS
1	A	117	LEU
1	A	120	LEU
1	A	129	ASN
1	A	133	GLU
1	A	137	PHE
1	A	140	ARG
1	A	141	PHE
1	A	147	ARG
1	A	149	THR
1	A	155	ASN
1	A	156	ILE

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Mol	Chain	Res	Type
1	A	158	ASP
1	A	172	GLU
1	A	173	ILE
1	A	179	LEU
1	A	180	ASP
1	A	182	ILE
1	A	186	LYS
1	A	188	LEU
1	A	197	LYS
1	A	202	ASP
1	A	213	LYS
1	A	217	LYS
1	A	229	PHE
1	A	236	GLU
1	A	248	TYR
1	A	254	ARG
1	A	260	TYR
1	A	279	ILE
1	A	284	LYS
1	A	292	ARG
1	A	296	LEU
1	A	309	PRO
1	A	323	ASN
1	A	324	THR
1	A	349	ASN
1	A	356	ASP
1	A	385	LEU
1	A	395	GLU
1	A	397	GLU
1	A	400	LYS
1	A	408	LEU
1	A	410	ILE
1	A	414	LYS
1	A	415	GLU
1	A	420	LEU
1	A	434	LEU
1	A	438	ASN
1	A	442	TYR
1	A	455	TYR
1	A	473	ASN
1	A	479	LYS
1	A	480	ASN

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Mol	Chain	Res	Type
1	A	484	VAL
1	A	501	LEU
1	A	507	GLN
1	A	514	ASP
1	A	515	LYS
1	A	525	LYS
1	A	533	LEU
1	A	535	LYS
1	A	562	GLU
1	A	582	ASP
1	A	629	ASN
1	A	635	ILE
1	A	639	ASN
1	A	655	ASN
1	A	672	ARG
1	A	678	VAL
1	A	702	SER
1	A	709	ASN
1	A	714	GLN
1	A	744	GLU
1	A	755	ARG
1	A	759	GLN
1	A	766	HIS
1	A	767	GLN
1	A	770	ASN
1	A	780	LEU
1	A	781	ASN
1	A	794	GLN
1	B	64	ASN
1	B	71	PHE
1	B	78	LYS
1	B	88	LYS
1	B	97	TYR
1	B	110	ASP
1	B	112	VAL
1	B	114	HIS
1	B	115	LYS
1	B	117	LEU
1	B	120	LEU
1	B	129	ASN
1	B	130	SER
1	B	133	GLU

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Mol	Chain	Res	Type
1	B	137	PHE
1	B	140	ARG
1	B	141	PHE
1	B	147	ARG
1	B	149	THR
1	B	155	ASN
1	B	156	ILE
1	B	158	ASP
1	B	172	GLU
1	B	173	ILE
1	B	179	LEU
1	B	180	ASP
1	B	182	ILE
1	B	186	LYS
1	B	188	LEU
1	B	197	LYS
1	B	202	ASP
1	B	213	LYS
1	B	217	LYS
1	B	229	PHE
1	B	236	GLU
1	B	248	TYR
1	B	254	ARG
1	B	260	TYR
1	B	279	ILE
1	B	284	LYS
1	B	292	ARG
1	B	296	LEU
1	B	309	PRO
1	B	323	ASN
1	B	324	THR
1	B	334	LEU
1	B	349	ASN
1	B	356	ASP
1	B	385	LEU
1	B	395	GLU
1	B	397	GLU
1	B	400	LYS
1	B	408	LEU
1	B	410	ILE
1	B	414	LYS
1	B	415	GLU

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Mol	Chain	Res	Type
1	B	420	LEU
1	B	434	LEU
1	B	438	ASN
1	B	442	TYR
1	B	455	TYR
1	B	473	ASN
1	B	479	LYS
1	B	480	ASN
1	B	484	VAL
1	B	501	LEU
1	B	507	GLN
1	B	514	ASP
1	B	515	LYS
1	B	525	LYS
1	B	533	LEU
1	B	535	LYS
1	B	562	GLU
1	B	582	ASP
1	B	588	GLU
1	B	622	LYS
1	B	629	ASN
1	B	635	ILE
1	B	639	ASN
1	B	646	THR
1	B	655	ASN
1	B	672	ARG
1	B	678	VAL
1	B	702	SER
1	B	709	ASN
1	B	714	GLN
1	B	744	GLU
1	B	755	ARG
1	B	759	GLN
1	B	766	HIS
1	B	767	GLN
1	B	770	ASN
1	B	780	LEU
1	B	781	ASN
1	B	794	GLN
1	C	71	PHE
1	C	78	LYS
1	C	88	LYS

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Mol	Chain	Res	Type
1	C	97	TYR
1	C	110	ASP
1	C	112	VAL
1	C	114	HIS
1	C	115	LYS
1	C	117	LEU
1	C	120	LEU
1	C	129	ASN
1	C	133	GLU
1	C	137	PHE
1	C	140	ARG
1	C	141	PHE
1	C	147	ARG
1	C	149	THR
1	C	155	ASN
1	C	156	ILE
1	C	158	ASP
1	C	172	GLU
1	C	173	ILE
1	C	179	LEU
1	C	180	ASP
1	C	182	ILE
1	C	186	LYS
1	C	188	LEU
1	C	197	LYS
1	C	202	ASP
1	C	213	LYS
1	C	217	LYS
1	C	229	PHE
1	C	236	GLU
1	C	248	TYR
1	C	254	ARG
1	C	260	TYR
1	C	279	ILE
1	C	284	LYS
1	C	292	ARG
1	C	296	LEU
1	C	309	PRO
1	C	323	ASN
1	C	324	THR
1	C	349	ASN
1	C	356	ASP

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Mol	Chain	Res	Type
1	C	385	LEU
1	C	395	GLU
1	C	397	GLU
1	C	400	LYS
1	C	408	LEU
1	C	410	ILE
1	C	414	LYS
1	C	415	GLU
1	C	420	LEU
1	C	434	LEU
1	C	438	ASN
1	C	442	TYR
1	C	455	TYR
1	C	473	ASN
1	C	479	LYS
1	C	480	ASN
1	C	484	VAL
1	C	501	LEU
1	C	507	GLN
1	C	514	ASP
1	C	515	LYS
1	C	525	LYS
1	C	533	LEU
1	C	535	LYS
1	C	562	GLU
1	C	582	ASP
1	C	588	GLU
1	C	629	ASN
1	C	635	ILE
1	C	639	ASN
1	C	655	ASN
1	C	672	ARG
1	C	678	VAL
1	C	702	SER
1	C	709	ASN
1	C	714	GLN
1	C	744	GLU
1	C	755	ARG
1	C	759	GLN
1	C	766	HIS
1	C	767	GLN
1	C	770	ASN

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Mol	Chain	Res	Type
1	C	780	LEU
1	C	781	ASN
1	C	794	GLN
1	D	71	PHE
1	D	78	LYS
1	D	88	LYS
1	D	97	TYR
1	D	110	ASP
1	D	112	VAL
1	D	114	HIS
1	D	115	LYS
1	D	117	LEU
1	D	120	LEU
1	D	128	MET
1	D	129	ASN
1	D	133	GLU
1	D	137	PHE
1	D	140	ARG
1	D	141	PHE
1	D	147	ARG
1	D	149	THR
1	D	155	ASN
1	D	156	ILE
1	D	158	ASP
1	D	172	GLU
1	D	173	ILE
1	D	179	LEU
1	D	180	ASP
1	D	182	ILE
1	D	186	LYS
1	D	188	LEU
1	D	197	LYS
1	D	202	ASP
1	D	213	LYS
1	D	217	LYS
1	D	229	PHE
1	D	236	GLU
1	D	248	TYR
1	D	254	ARG
1	D	260	TYR
1	D	279	ILE
1	D	284	LYS

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Mol	Chain	Res	Type
1	D	292	ARG
1	D	296	LEU
1	D	309	PRO
1	D	323	ASN
1	D	324	THR
1	D	349	ASN
1	D	356	ASP
1	D	385	LEU
1	D	395	GLU
1	D	397	GLU
1	D	400	LYS
1	D	408	LEU
1	D	410	ILE
1	D	414	LYS
1	D	415	GLU
1	D	420	LEU
1	D	434	LEU
1	D	438	ASN
1	D	442	TYR
1	D	455	TYR
1	D	473	ASN
1	D	479	LYS
1	D	480	ASN
1	D	484	VAL
1	D	501	LEU
1	D	507	GLN
1	D	514	ASP
1	D	515	LYS
1	D	525	LYS
1	D	533	LEU
1	D	535	LYS
1	D	562	GLU
1	D	582	ASP
1	D	588	GLU
1	D	622	LYS
1	D	629	ASN
1	D	635	ILE
1	D	639	ASN
1	D	655	ASN
1	D	672	ARG
1	D	678	VAL
1	D	702	SER

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Mol	Chain	Res	Type
1	D	709	ASN
1	D	714	GLN
1	D	744	GLU
1	D	755	ARG
1	D	759	GLN
1	D	766	HIS
1	D	767	GLN
1	D	770	ASN
1	D	780	LEU
1	D	781	ASN
1	D	794	GLN
1	E	71	PHE
1	E	78	LYS
1	E	88	LYS
1	E	97	TYR
1	E	110	ASP
1	E	112	VAL
1	E	114	HIS
1	E	115	LYS
1	E	117	LEU
1	E	120	LEU
1	E	128	MET
1	E	129	ASN
1	E	130	SER
1	E	133	GLU
1	E	137	PHE
1	E	140	ARG
1	E	141	PHE
1	E	147	ARG
1	E	149	THR
1	E	155	ASN
1	E	156	ILE
1	E	158	ASP
1	E	172	GLU
1	E	173	ILE
1	E	179	LEU
1	E	180	ASP
1	E	182	ILE
1	E	186	LYS
1	E	188	LEU
1	E	190	PRO
1	E	197	LYS

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Mol	Chain	Res	Type
1	E	202	ASP
1	E	213	LYS
1	E	217	LYS
1	E	229	PHE
1	E	236	GLU
1	E	248	TYR
1	E	254	ARG
1	E	260	TYR
1	E	279	ILE
1	E	284	LYS
1	E	292	ARG
1	E	296	LEU
1	E	309	PRO
1	E	323	ASN
1	E	324	THR
1	E	349	ASN
1	E	356	ASP
1	E	385	LEU
1	E	395	GLU
1	E	397	GLU
1	E	400	LYS
1	E	408	LEU
1	E	410	ILE
1	E	414	LYS
1	E	415	GLU
1	E	420	LEU
1	E	434	LEU
1	E	438	ASN
1	E	442	TYR
1	E	455	TYR
1	E	473	ASN
1	E	479	LYS
1	E	480	ASN
1	E	484	VAL
1	E	501	LEU
1	E	507	GLN
1	E	514	ASP
1	E	515	LYS
1	E	525	LYS
1	E	533	LEU
1	E	535	LYS
1	E	562	GLU

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Mol	Chain	Res	Type
1	E	582	ASP
1	E	588	GLU
1	E	629	ASN
1	E	635	ILE
1	E	639	ASN
1	E	655	ASN
1	E	672	ARG
1	E	678	VAL
1	E	702	SER
1	E	709	ASN
1	E	714	GLN
1	E	744	GLU
1	E	755	ARG
1	E	759	GLN
1	E	766	HIS
1	E	767	GLN
1	E	770	ASN
1	E	780	LEU
1	E	781	ASN
1	E	794	GLN
1	F	64	ASN
1	F	71	PHE
1	F	78	LYS
1	F	88	LYS
1	F	97	TYR
1	F	110	ASP
1	F	112	VAL
1	F	114	HIS
1	F	115	LYS
1	F	117	LEU
1	F	120	LEU
1	F	128	MET
1	F	129	ASN
1	F	133	GLU
1	F	137	PHE
1	F	140	ARG
1	F	141	PHE
1	F	147	ARG
1	F	149	THR
1	F	155	ASN
1	F	156	ILE
1	F	158	ASP

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Mol	Chain	Res	Type
1	F	172	GLU
1	F	173	ILE
1	F	179	LEU
1	F	180	ASP
1	F	182	ILE
1	F	186	LYS
1	F	188	LEU
1	F	197	LYS
1	F	202	ASP
1	F	213	LYS
1	F	217	LYS
1	F	229	PHE
1	F	236	GLU
1	F	248	TYR
1	F	254	ARG
1	F	260	TYR
1	F	279	ILE
1	F	284	LYS
1	F	292	ARG
1	F	296	LEU
1	F	309	PRO
1	F	323	ASN
1	F	324	THR
1	F	334	LEU
1	F	349	ASN
1	F	356	ASP
1	F	385	LEU
1	F	395	GLU
1	F	397	GLU
1	F	400	LYS
1	F	408	LEU
1	F	410	ILE
1	F	414	LYS
1	F	415	GLU
1	F	420	LEU
1	F	434	LEU
1	F	438	ASN
1	F	455	TYR
1	F	473	ASN
1	F	479	LYS
1	F	480	ASN
1	F	484	VAL

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Mol	Chain	Res	Type
1	F	501	LEU
1	F	507	GLN
1	F	514	ASP
1	F	515	LYS
1	F	525	LYS
1	F	533	LEU
1	F	535	LYS
1	F	562	GLU
1	F	582	ASP
1	F	588	GLU
1	F	622	LYS
1	F	629	ASN
1	F	635	ILE
1	F	639	ASN
1	F	646	THR
1	F	655	ASN
1	F	672	ARG
1	F	678	VAL
1	F	702	SER
1	F	709	ASN
1	F	714	GLN
1	F	744	GLU
1	F	755	ARG
1	F	759	GLN
1	F	766	HIS
1	F	767	GLN
1	F	770	ASN
1	F	780	LEU
1	F	781	ASN
1	F	794	GLN
2	O	5	THR
2	O	13	LYS
2	O	14	GLU
2	O	18	LEU
2	O	30	LYS
2	O	49	GLN
2	O	54	GLU
2	O	55	VAL
2	O	62	THR
2	O	63	ILE
2	O	65	PHE
2	O	70	THR

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Mol	Chain	Res	Type
2	O	83	GLU
2	O	94	LYS
2	O	97	ASN
2	O	117	THR
2	O	123	GLN
2	O	140	GLU
2	O	146	THR
2	P	5	THR
2	P	13	LYS
2	P	14	GLU
2	P	18	LEU
2	P	30	LYS
2	P	49	GLN
2	P	54	GLU
2	P	55	VAL
2	P	62	THR
2	P	63	ILE
2	P	65	PHE
2	P	70	THR
2	P	83	GLU
2	P	94	LYS
2	P	97	ASN
2	P	117	THR
2	P	123	GLN
2	P	140	GLU
2	P	146	THR
2	Q	5	THR
2	Q	13	LYS
2	Q	14	GLU
2	Q	18	LEU
2	Q	30	LYS
2	Q	49	GLN
2	Q	54	GLU
2	Q	55	VAL
2	Q	62	THR
2	Q	63	ILE
2	Q	65	PHE
2	Q	70	THR
2	Q	83	GLU
2	Q	94	LYS
2	Q	97	ASN
2	Q	117	THR

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Mol	Chain	Res	Type
2	Q	123	GLN
2	Q	140	GLU
2	Q	146	THR
2	R	5	THR
2	R	13	LYS
2	R	14	GLU
2	R	18	LEU
2	R	30	LYS
2	R	49	GLN
2	R	54	GLU
2	R	55	VAL
2	R	62	THR
2	R	63	ILE
2	R	65	PHE
2	R	70	THR
2	R	83	GLU
2	R	94	LYS
2	R	97	ASN
2	R	117	THR
2	R	123	GLN
2	R	140	GLU
2	R	146	THR
2	S	5	THR
2	S	13	LYS
2	S	14	GLU
2	S	18	LEU
2	S	30	LYS
2	S	49	GLN
2	S	54	GLU
2	S	55	VAL
2	S	63	ILE
2	S	65	PHE
2	S	70	THR
2	S	83	GLU
2	S	94	LYS
2	S	97	ASN
2	S	117	THR
2	S	123	GLN
2	S	140	GLU
2	S	146	THR
2	T	5	THR
2	T	13	LYS

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Mol	Chain	Res	Type
2	T	14	GLU
2	T	18	LEU
2	T	30	LYS
2	T	49	GLN
2	T	54	GLU
2	T	55	VAL
2	T	63	ILE
2	T	65	PHE
2	T	70	THR
2	T	83	GLU
2	T	94	LYS
2	T	97	ASN
2	T	117	THR
2	T	123	GLN
2	T	140	GLU
2	T	146	THR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (199) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	80	GLN
1	A	81	GLN
1	A	83	GLN
1	A	129	ASN
1	A	165	GLN
1	A	212	GLN
1	A	238	GLN
1	A	323	ASN
1	A	337	ASN
1	A	349	ASN
1	A	387	ASN
1	A	438	ASN
1	A	480	ASN
1	A	507	GLN
1	A	510	GLN
1	A	518	ASN
1	A	551	ASN
1	A	553	GLN
1	A	576	ASN
1	A	581	GLN
1	A	629	ASN
1	A	639	ASN

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Mol	Chain	Res	Type
1	A	655	ASN
1	A	666	ASN
1	A	709	ASN
1	A	730	ASN
1	A	750	GLN
1	A	770	ASN
1	A	781	ASN
1	A	785	ASN
1	A	789	ASN
1	A	794	GLN
1	B	80	GLN
1	B	81	GLN
1	B	83	GLN
1	B	165	GLN
1	B	212	GLN
1	B	238	GLN
1	B	323	ASN
1	B	337	ASN
1	B	349	ASN
1	B	387	ASN
1	B	438	ASN
1	B	480	ASN
1	B	507	GLN
1	B	510	GLN
1	B	518	ASN
1	B	551	ASN
1	B	553	GLN
1	B	576	ASN
1	B	581	GLN
1	B	629	ASN
1	B	639	ASN
1	B	655	ASN
1	B	666	ASN
1	B	709	ASN
1	B	730	ASN
1	B	750	GLN
1	B	770	ASN
1	B	781	ASN
1	B	785	ASN
1	B	789	ASN
1	B	794	GLN
1	C	80	GLN

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Mol	Chain	Res	Type
1	C	81	GLN
1	C	83	GLN
1	C	165	GLN
1	C	212	GLN
1	C	238	GLN
1	C	323	ASN
1	C	337	ASN
1	C	349	ASN
1	C	387	ASN
1	C	438	ASN
1	C	480	ASN
1	C	507	GLN
1	C	510	GLN
1	C	518	ASN
1	C	551	ASN
1	C	553	GLN
1	C	581	GLN
1	C	629	ASN
1	C	639	ASN
1	C	655	ASN
1	C	666	ASN
1	C	709	ASN
1	C	730	ASN
1	C	750	GLN
1	C	770	ASN
1	C	781	ASN
1	C	785	ASN
1	C	789	ASN
1	C	794	GLN
1	D	64	ASN
1	D	80	GLN
1	D	81	GLN
1	D	83	GLN
1	D	165	GLN
1	D	212	GLN
1	D	238	GLN
1	D	323	ASN
1	D	337	ASN
1	D	349	ASN
1	D	387	ASN
1	D	438	ASN
1	D	480	ASN

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Mol	Chain	Res	Type
1	D	507	GLN
1	D	510	GLN
1	D	518	ASN
1	D	551	ASN
1	D	553	GLN
1	D	576	ASN
1	D	581	GLN
1	D	629	ASN
1	D	639	ASN
1	D	655	ASN
1	D	666	ASN
1	D	709	ASN
1	D	730	ASN
1	D	750	GLN
1	D	770	ASN
1	D	781	ASN
1	D	785	ASN
1	D	789	ASN
1	D	794	GLN
1	E	80	GLN
1	E	81	GLN
1	E	83	GLN
1	E	165	GLN
1	E	212	GLN
1	E	238	GLN
1	E	323	ASN
1	E	337	ASN
1	E	349	ASN
1	E	387	ASN
1	E	438	ASN
1	E	480	ASN
1	E	507	GLN
1	E	510	GLN
1	E	518	ASN
1	E	551	ASN
1	E	553	GLN
1	E	576	ASN
1	E	581	GLN
1	E	629	ASN
1	E	639	ASN
1	E	655	ASN
1	E	666	ASN

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Mol	Chain	Res	Type
1	E	709	ASN
1	E	730	ASN
1	E	750	GLN
1	E	770	ASN
1	E	781	ASN
1	E	785	ASN
1	E	789	ASN
1	E	794	GLN
1	F	80	GLN
1	F	81	GLN
1	F	83	GLN
1	F	129	ASN
1	F	165	GLN
1	F	212	GLN
1	F	238	GLN
1	F	323	ASN
1	F	337	ASN
1	F	349	ASN
1	F	387	ASN
1	F	438	ASN
1	F	480	ASN
1	F	507	GLN
1	F	510	GLN
1	F	518	ASN
1	F	551	ASN
1	F	553	GLN
1	F	581	GLN
1	F	629	ASN
1	F	639	ASN
1	F	655	ASN
1	F	666	ASN
1	F	709	ASN
1	F	730	ASN
1	F	750	GLN
1	F	770	ASN
1	F	781	ASN
1	F	785	ASN
1	F	789	ASN
1	F	794	GLN
2	O	49	GLN
2	O	111	ASN
2	P	49	GLN

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Mol	Chain	Res	Type
2	P	111	ASN
2	Q	49	GLN
2	Q	111	ASN
2	R	49	GLN
2	R	111	ASN
2	S	49	GLN
2	S	111	ASN
2	T	49	GLN
2	T	111	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 carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

Of 30 ligands modelled in this entry, 24 are monoatomic - leaving 6 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
5	CMP	A	901	-	19,25,25	1.77	4 (21%)	18,39,39	3.15	6 (33%)
5	CMP	B	902	3	19,25,25	1.78	5 (26%)	18,39,39	2.98	6 (33%)
5	CMP	C	903	3	19,25,25	1.77	4 (21%)	18,39,39	3.01	6 (33%)
5	CMP	D	904	3	19,25,25	1.75	4 (21%)	18,39,39	2.99	6 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
5	CMP	E	905	3	19,25,25	1.79	5 (26%)	18,39,39	3.03	6 (33%)
5	CMP	F	906	3	19,25,25	1.80	5 (26%)	18,39,39	3.09	6 (33%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	CMP	A	901	-	-	0/0/31/31	0/4/4/4
5	CMP	B	902	3	-	0/0/31/31	0/4/4/4
5	CMP	C	903	3	-	0/0/31/31	0/4/4/4
5	CMP	D	904	3	-	0/0/31/31	0/4/4/4
5	CMP	E	905	3	-	0/0/31/31	0/4/4/4
5	CMP	F	906	3	-	0/0/31/31	0/4/4/4

All (27) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	903	CMP	C2'-C3'	-4.28	1.43	1.53
5	A	901	CMP	C2'-C3'	-4.19	1.43	1.53
5	D	904	CMP	C2'-C3'	-4.17	1.43	1.53
5	F	906	CMP	C2'-C3'	-4.08	1.43	1.53
5	E	905	CMP	C2'-C3'	-4.07	1.43	1.53
5	B	902	CMP	C2'-C3'	-3.95	1.44	1.53
5	B	902	CMP	C8-N7	-2.32	1.30	1.34
5	C	903	CMP	C8-N7	-2.31	1.30	1.34
5	E	905	CMP	C8-N7	-2.24	1.30	1.34
5	F	906	CMP	C8-N7	-2.19	1.30	1.34
5	D	904	CMP	C8-N7	-2.18	1.30	1.34
5	A	901	CMP	C8-N7	-2.18	1.30	1.34
5	E	905	CMP	P-O3'	2.08	1.61	1.58
5	B	902	CMP	P-O3'	2.26	1.61	1.58
5	F	906	CMP	P-O3'	2.42	1.62	1.58
5	B	902	CMP	C5'-C4'	2.57	1.55	1.51
5	A	901	CMP	C5'-C4'	2.58	1.55	1.51
5	D	904	CMP	C5'-C4'	2.64	1.56	1.51
5	C	903	CMP	C5'-C4'	2.69	1.56	1.51
5	F	906	CMP	C5'-C4'	2.70	1.56	1.51
5	D	904	CMP	O4'-C1'	2.79	1.44	1.41
5	E	905	CMP	C5'-C4'	2.83	1.56	1.51
5	A	901	CMP	O4'-C1'	2.94	1.44	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	903	CMP	O4'-C1'	2.97	1.45	1.41
5	F	906	CMP	O4'-C1'	2.98	1.45	1.41
5	B	902	CMP	O4'-C1'	3.00	1.45	1.41
5	E	905	CMP	O4'-C1'	3.04	1.45	1.41

All (36) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	901	CMP	C4'-O4'-C1'	-10.18	98.53	109.72
5	F	906	CMP	C4'-O4'-C1'	-10.02	98.70	109.72
5	C	903	CMP	C4'-O4'-C1'	-9.77	98.98	109.72
5	E	905	CMP	C4'-O4'-C1'	-9.77	98.98	109.72
5	D	904	CMP	C4'-O4'-C1'	-9.66	99.10	109.72
5	B	902	CMP	C4'-O4'-C1'	-9.61	99.15	109.72
5	F	906	CMP	C1'-N9-C4	2.00	129.96	126.94
5	C	903	CMP	C1'-N9-C4	2.03	130.01	126.94
5	E	905	CMP	C1'-N9-C4	2.08	130.08	126.94
5	D	904	CMP	C1'-N9-C4	2.09	130.09	126.94
5	A	901	CMP	C1'-N9-C4	2.21	130.27	126.94
5	B	902	CMP	C1'-N9-C4	2.21	130.28	126.94
5	F	906	CMP	C4-C5-N7	2.40	111.69	109.48
5	D	904	CMP	C4-C5-N7	2.40	111.69	109.48
5	A	901	CMP	C4-C5-N7	2.43	111.72	109.48
5	E	905	CMP	C4-C5-N7	2.44	111.72	109.48
5	B	902	CMP	C4-C5-N7	2.46	111.75	109.48
5	C	903	CMP	C4-C5-N7	2.46	111.75	109.48
5	F	906	CMP	O2P-P-O1P	2.53	116.84	108.80
5	B	902	CMP	O2P-P-O1P	2.55	116.91	108.80
5	E	905	CMP	O2P-P-O1P	2.56	116.97	108.80
5	D	904	CMP	O2P-P-O1P	2.57	117.00	108.80
5	A	901	CMP	O2P-P-O1P	2.60	117.08	108.80
5	C	903	CMP	O2P-P-O1P	2.64	117.20	108.80
5	C	903	CMP	O5'-C5'-C4'	4.08	116.59	105.78
5	D	904	CMP	O5'-C5'-C4'	4.09	116.61	105.78
5	E	905	CMP	O5'-C5'-C4'	4.14	116.74	105.78
5	B	902	CMP	O5'-C5'-C4'	4.16	116.81	105.78
5	A	901	CMP	O5'-C5'-C4'	4.19	116.88	105.78
5	F	906	CMP	O5'-C5'-C4'	4.23	116.97	105.78
5	B	902	CMP	O3'-C3'-C4'	4.81	114.55	110.72
5	D	904	CMP	O3'-C3'-C4'	4.95	114.67	110.72
5	C	903	CMP	O3'-C3'-C4'	4.98	114.69	110.72
5	E	905	CMP	O3'-C3'-C4'	5.10	114.78	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	906	CMP	O3'-C3'-C4'	5.18	114.84	110.72
5	A	901	CMP	O3'-C3'-C4'	5.28	114.93	110.72

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6 monomers are involved in 24 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	901	CMP	4	0
5	B	902	CMP	4	0
5	C	903	CMP	4	0
5	D	904	CMP	4	0
5	E	905	CMP	4	0
5	F	906	CMP	4	0

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

## 6 Fit of model and data ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	735/777 (94%)	0.26	35 (4%) 34 31	18, 73, 128, 137	0
1	B	735/777 (94%)	0.26	30 (4%) 41 36	18, 73, 128, 138	0
1	C	735/777 (94%)	0.29	34 (4%) 36 32	17, 73, 128, 138	0
1	D	735/777 (94%)	0.27	31 (4%) 40 35	17, 73, 127, 137	0
1	E	735/777 (94%)	0.26	28 (3%) 44 39	17, 72, 127, 137	0
1	F	735/777 (94%)	0.25	29 (3%) 43 38	19, 73, 127, 138	0
2	O	146/149 (97%)	0.11	4 (2%) 58 53	17, 60, 119, 124	0
2	P	146/149 (97%)	0.12	3 (2%) 67 61	17, 60, 119, 124	0
2	Q	146/149 (97%)	0.10	2 (1%) 78 73	17, 60, 119, 123	0
2	R	146/149 (97%)	0.09	4 (2%) 58 53	16, 60, 119, 123	0
2	S	146/149 (97%)	0.17	5 (3%) 49 44	17, 60, 119, 123	0
2	T	146/149 (97%)	0.13	4 (2%) 58 53	16, 60, 119, 124	0
All	All	5286/5556 (95%)	0.24	209 (3%) 42 37	16, 70, 126, 138	0

All (209) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	162	ASN	17.7
1	D	162	ASN	10.1
1	A	163	SER	9.7
1	B	204	ASP	9.0
1	F	230	ILE	8.7
1	E	225	ILE	8.5
1	D	229	PHE	8.1
1	E	230	ILE	7.9
1	E	204	ASP	7.8
1	B	230	ILE	7.4
1	D	204	ASP	7.3

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Mol	Chain	Res	Type	RSRZ
1	E	229	PHE	7.2
1	B	162	ASN	7.1
1	A	230	ILE	7.1
1	C	230	ILE	7.1
1	B	203	SER	6.8
1	E	206	SER	6.7
1	A	204	ASP	6.6
1	F	225	ILE	6.6
1	F	162	ASN	6.5
1	C	162	ASN	6.5
1	D	230	ILE	6.2
1	D	126	ASN	6.1
1	C	206	SER	5.9
1	A	229	PHE	5.9
1	F	226	ASP	5.8
1	D	203	SER	5.8
1	F	204	ASP	5.8
1	C	229	PHE	5.7
1	D	163	SER	5.7
1	E	171	TYR	5.7
1	B	212	GLN	5.6
1	C	212	GLN	5.6
1	C	226	ASP	5.5
1	E	162	ASN	5.5
1	C	225	ILE	5.4
1	A	226	ASP	5.4
1	C	171	TYR	5.4
1	B	171	TYR	5.3
1	F	206	SER	5.3
1	F	229	PHE	5.3
1	B	163	SER	5.2
1	F	171	TYR	5.2
1	E	205	SER	5.2
1	A	227	ILE	5.1
1	F	72	THR	5.0
1	D	171	TYR	5.0
1	D	206	SER	4.9
1	B	229	PHE	4.8
1	A	225	ILE	4.8
1	F	212	GLN	4.8
1	A	171	TYR	4.8
1	C	125	LYS	4.8

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Mol	Chain	Res	Type	RSRZ
1	B	205	SER	4.7
1	E	212	GLN	4.7
1	E	72	THR	4.7
1	A	203	SER	4.5
1	B	237	PHE	4.4
1	D	226	ASP	4.4
1	A	212	GLN	4.4
1	C	204	ASP	4.3
1	F	163	SER	4.3
1	B	206	SER	4.3
1	C	203	SER	4.2
1	A	126	ASN	4.2
1	D	225	ILE	4.2
1	A	221	ASN	4.1
1	A	206	SER	4.1
1	E	226	ASP	4.1
1	F	126	ASN	4.0
1	E	160	ALA	4.0
1	B	126	ASN	4.0
1	C	163	SER	4.0
1	D	212	GLN	4.0
2	Q	52	ILE	3.9
1	E	126	ASN	3.9
2	R	52	ILE	3.9
1	C	237	PHE	3.8
1	B	226	ASP	3.8
1	E	203	SER	3.8
1	B	225	ILE	3.7
1	C	221	ASN	3.7
1	E	227	ILE	3.7
1	D	186	LYS	3.6
1	F	421	LYS	3.6
1	F	125	LYS	3.5
1	F	227	ILE	3.5
1	E	163	SER	3.5
1	B	218	LEU	3.5
1	D	125	LYS	3.4
1	F	260	TYR	3.4
1	A	110	ASP	3.4
1	C	205	SER	3.4
1	F	203	SER	3.3
1	B	181	ILE	3.3

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Mol	Chain	Res	Type	RSRZ
1	D	359	PRO	3.3
1	D	205	SER	3.2
1	C	207	ASP	3.2
1	D	560	LEU	3.2
1	D	207	ASP	3.2
1	B	221	ASN	3.2
1	D	221	ASN	3.2
2	T	43	PRO	3.1
1	A	213	LYS	3.1
2	T	78	ASP	3.1
1	B	441	VAL	3.0
1	D	237	PHE	3.0
1	A	181	ILE	3.0
1	A	214	PHE	2.9
1	B	127	SER	2.9
2	R	63	ILE	2.9
1	A	405	LEU	2.9
1	F	373	LYS	2.9
1	F	259	LEU	2.9
1	B	214	PHE	2.9
1	F	214	PHE	2.9
1	E	786	GLU	2.8
1	A	237	PHE	2.8
2	P	52	ILE	2.8
1	F	165	GLN	2.8
1	C	185	ASP	2.8
1	A	165	GLN	2.8
1	C	186	LYS	2.8
1	B	160	ALA	2.8
1	F	222	ASN	2.8
1	D	227	ILE	2.8
1	F	127	SER	2.7
1	B	207	ASP	2.7
1	C	421	LYS	2.6
2	O	52	ILE	2.6
1	A	228	ASN	2.6
2	R	112	LEU	2.6
1	C	160	ALA	2.6
1	C	227	ILE	2.6
1	A	76	LEU	2.6
1	D	165	GLN	2.6
2	O	63	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
1	C	127	SER	2.6
1	C	359	PRO	2.6
1	D	786	GLU	2.5
1	F	237	PHE	2.5
1	D	328	PHE	2.5
1	E	168	GLU	2.5
1	E	435	LEU	2.5
2	O	43	PRO	2.5
1	F	224	SER	2.5
2	P	63	ILE	2.5
1	E	127	SER	2.5
1	C	405	LEU	2.5
1	E	158	ASP	2.5
1	B	165	GLN	2.5
1	A	125	LYS	2.5
1	B	405	LEU	2.4
2	S	63	ILE	2.4
2	S	78	ASP	2.4
1	D	192	PHE	2.4
1	D	127	SER	2.4
1	F	433	TYR	2.4
1	D	160	ALA	2.4
1	A	207	ASP	2.4
1	F	420	LEU	2.4
2	P	112	LEU	2.4
1	E	207	ASP	2.3
1	C	126	ASN	2.3
1	F	213	LYS	2.3
1	C	165	GLN	2.3
1	A	595	ILE	2.3
1	D	419	ILE	2.3
1	E	260	TYR	2.3
1	E	237	PHE	2.3
2	S	43	PRO	2.3
1	A	603	ILE	2.3
2	Q	63	ILE	2.2
1	C	192	PHE	2.2
1	B	786	GLU	2.2
1	B	156	ILE	2.2
1	E	603	ILE	2.2
1	C	72	THR	2.2
1	A	79	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
2	S	27	ILE	2.2
2	R	78	ASP	2.2
1	B	158	ASP	2.2
1	B	370	LEU	2.2
2	T	63	ILE	2.2
1	F	780	LEU	2.2
1	C	260	TYR	2.2
1	C	264	MET	2.2
1	A	259	LEU	2.2
1	C	214	PHE	2.2
1	C	218	LEU	2.1
1	A	156	ILE	2.1
1	C	222	ASN	2.1
2	O	65	PHE	2.1
1	A	241	PHE	2.1
2	T	65	PHE	2.1
1	C	202	ASP	2.1
1	D	158	ASP	2.1
1	E	419	ILE	2.1
1	E	165	GLN	2.1
1	A	264	MET	2.1
1	D	118	GLN	2.1
1	A	247	TYR	2.0
1	B	296	LEU	2.0
1	D	405	LEU	2.0
1	A	481	VAL	2.0
1	E	149	THR	2.0
2	S	112	LEU	2.0
1	A	786	GLU	2.0
1	B	770	ASN	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 carbohydrates in this entry.



## 6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å <sup>2</sup> )	Q<0.9
5	CMP	C	903	22/22	0.90	0.51	3.42	48,63,81,92	0
5	CMP	B	902	22/22	0.88	0.42	2.78	49,63,81,89	0
5	CMP	E	905	22/22	0.89	0.39	2.41	47,63,84,91	0
5	CMP	D	904	22/22	0.90	0.33	1.87	48,62,81,86	0
5	CMP	F	906	22/22	0.86	0.39	1.86	48,63,84,93	0
5	CMP	A	901	22/22	0.89	0.36	1.83	48,65,85,93	0
4	CA	Q	806	1/1	0.97	0.19	-0.21	51,51,51,51	0
4	CA	T	812	1/1	0.98	0.18	-0.38	54,54,54,54	0
4	CA	P	804	1/1	0.99	0.18	-0.40	47,47,47,47	0
4	CA	O	802	1/1	0.96	0.18	-0.53	47,47,47,47	0
4	CA	Q	805	1/1	0.99	0.19	-0.55	29,29,29,29	0
4	CA	P	803	1/1	0.98	0.17	-0.66	30,30,30,30	0
4	CA	S	810	1/1	0.99	0.17	-0.70	51,51,51,51	0
4	CA	R	707	1/1	0.97	0.11	-0.89	69,69,69,69	0
4	CA	R	808	1/1	0.98	0.16	-0.90	47,47,47,47	0
4	CA	S	709	1/1	0.91	0.08	-1.00	78,78,78,78	0
4	CA	Q	705	1/1	0.82	0.15	-1.02	76,76,76,76	0
4	CA	O	701	1/1	0.91	0.12	-1.22	81,81,81,81	0
4	CA	P	703	1/1	0.94	0.13	-1.24	76,76,76,76	0
4	CA	T	711	1/1	0.90	0.11	-1.25	79,79,79,79	0
4	CA	T	811	1/1	0.97	0.14	-1.30	26,26,26,26	0
4	CA	O	801	1/1	0.98	0.14	-1.35	27,27,27,27	0
4	CA	R	807	1/1	0.97	0.13	-1.43	29,29,29,29	0
4	CA	S	809	1/1	0.97	0.14	-1.47	26,26,26,26	0
3	MG	A	900	1/1	0.99	0.18	-	13,13,13,13	0
3	MG	F	905	1/1	0.97	0.21	-	15,15,15,15	0
3	MG	E	904	1/1	0.97	0.16	-	17,17,17,17	0
3	MG	D	903	1/1	0.98	0.14	-	14,14,14,14	0
3	MG	C	902	1/1	0.98	0.14	-	17,17,17,17	0
3	MG	B	901	1/1	0.99	0.12	-	27,27,27,27	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.