



# Full wwPDB X-ray Structure Validation Report

Feb 27, 2014 – 01:34 PM GMT

PDB ID : 3VB0  
Title : Crystal structure of 2,2',3-trihydroxybiphenyl1,2-dioxygenase from dibenzofuran-degrading *Sphingomonas wittichii* strain RW1  
Authors : Koksai, M.; Kumar, P.; Bolin, J.T.  
Deposited on : 2011-12-30  
Resolution : 2.10 Å (reported)

This is a full wwPDB 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/ValidationPDFNotes.html>

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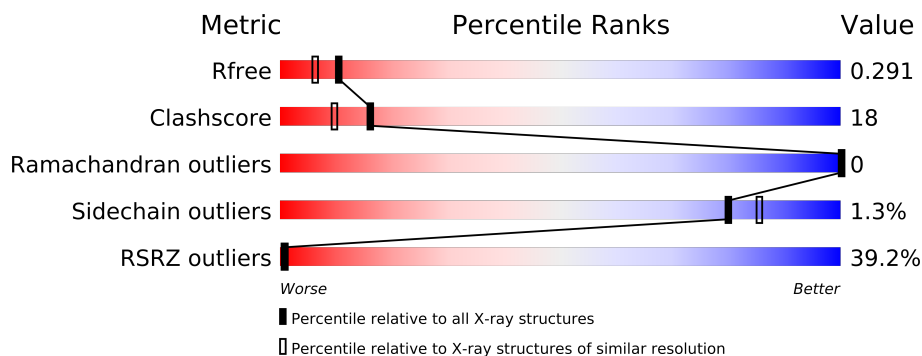
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.15 2013  
Xtriage (Phenix) : dev-1323  
EDS : stable22639  
Percentile statistics : 21963  
Refmac : 5.8.0049  
CCP4 : 6.3.0 (Settle)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)  
Validation Pipeline (wwPDB-VP) : stable22683

# 1 Overall quality at a glance

The reported resolution of this entry is 2.10 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	66092	3012 (2.10-2.10)
Clashscore	79885	3649 (2.10-2.10)
Ramachandran outliers	78287	3610 (2.10-2.10)
Sidechain outliers	78261	3611 (2.10-2.10)
RSRZ outliers	66119	3013 (2.10-2.10)

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. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	294	
1	B	294	
1	C	294	
1	D	294	

## 2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 9162 atoms, of which 0 are hydrogen and 0 are deuterium.

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.

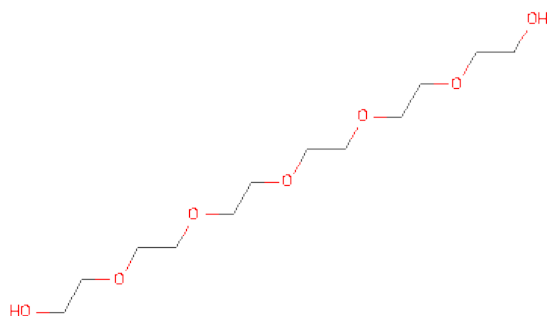
- Molecule 1 is a protein called Glyoxalase/bleomycin resistance protein/dioxygenase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	289	Total	C	N	O	S	0	0	0
			2238	1429	384	415	10			
1	B	289	Total	C	N	O	S	0	0	0
			2238	1429	384	415	10			
1	C	289	Total	C	N	O	S	0	0	0
			2238	1429	384	415	10			
1	D	289	Total	C	N	O	S	0	0	0
			2238	1429	384	415	10			

- Molecule 2 is FE (II) ION (three-letter code: FE2) (formula: Fe).

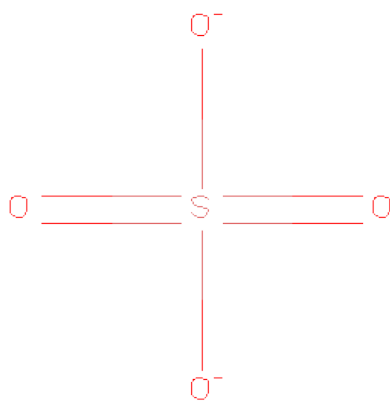
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Fe	0	0
			1	1		
2	A	1	Total	Fe	0	0
			1	1		
2	D	1	Total	Fe	0	0
			1	1		
2	C	1	Total	Fe	0	0
			1	1		

- Molecule 3 is HEXAETHYLENE GLYCOL (three-letter code: P6G) (formula: C<sub>12</sub>H<sub>26</sub>O<sub>7</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			19	12	7		
3	B	1	Total	C	O	0	0
			19	12	7		

- Molecule 4 is SULFATE ION (three-letter code: SO<sub>4</sub>) (formula: O<sub>4</sub>S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	O	S	0	0
			5	4	1		
4	B	1	Total	O	S	0	0
			5	4	1		

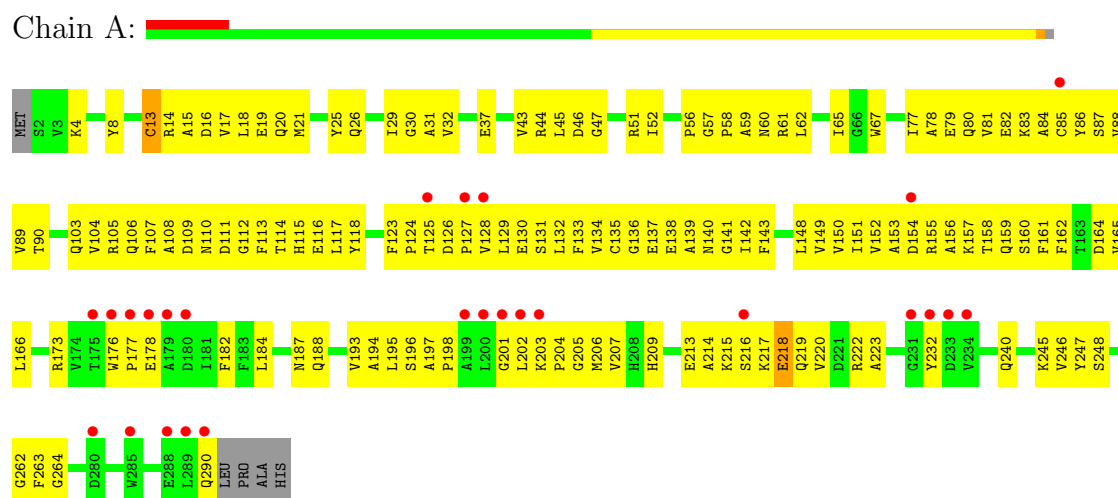
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	77	Total 77	O 77	0	0
5	B	80	Total 80	O 80	0	0
5	C	1	Total 1	O 1	0	0

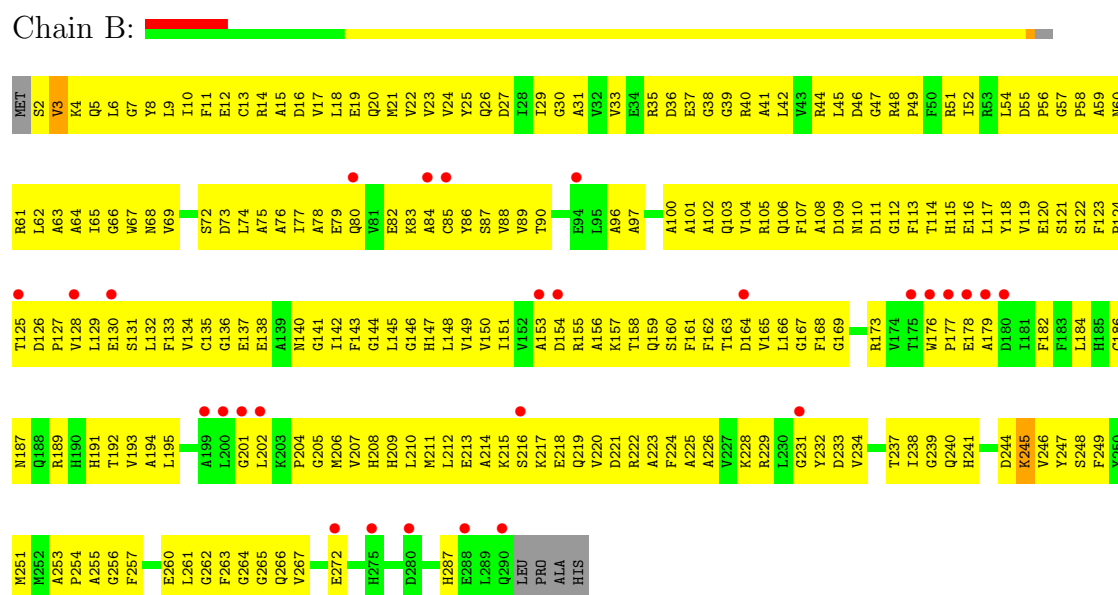
### 3 Residue-property plots

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

- Molecule 1: Glyoxalase/bleomycin resistance protein/dioxygenase

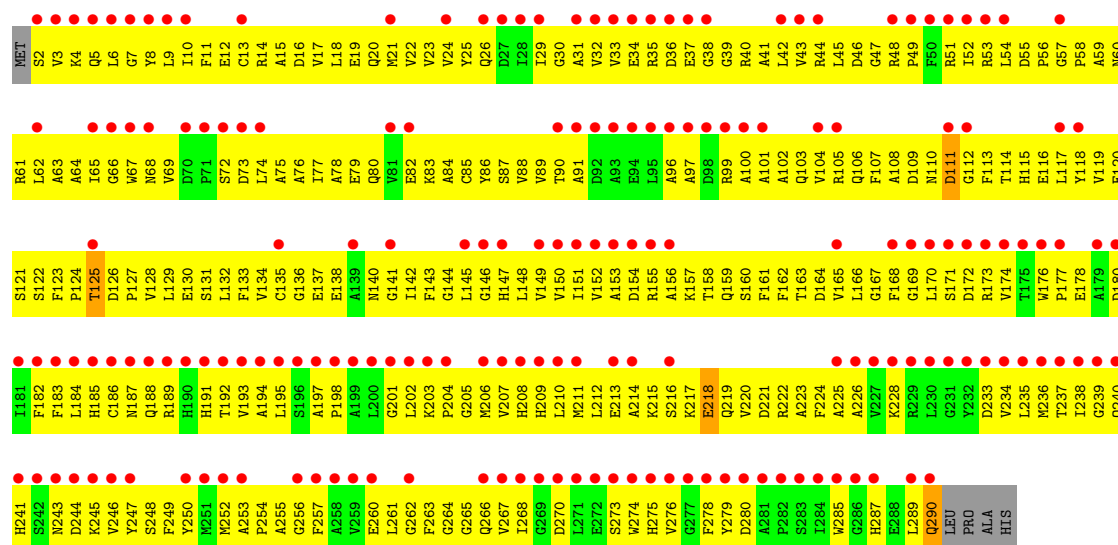


- Molecule 1: Glyoxalase/bleomycin resistance protein/dioxygenase



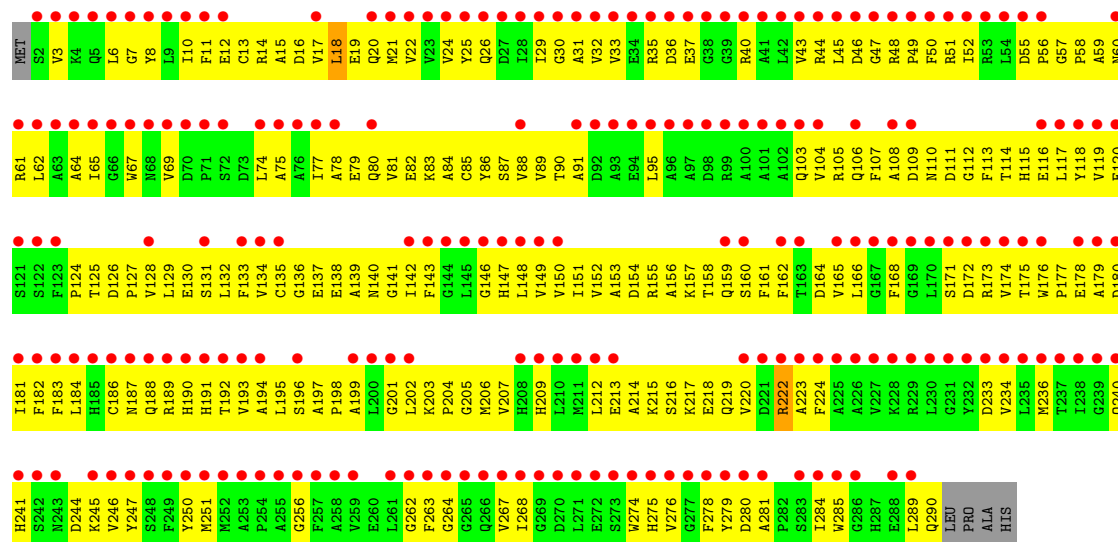
- Molecule 1: Glyoxalase/bleomycin resistance protein/dioxygenase





• Molecule 1: Glyoxalase/bleomycin resistance protein/dioxygenase

Chain D:



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	131.59Å 131.59Å 103.15Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	92.85 – 2.10 34.54 – 2.10	Depositor EDS
% Data completeness (in resolution range)	97.9 (92.85-2.10) 98.0 (34.54-2.10)	Depositor EDS
$R_{merge}$	0.09	Depositor
$R_{sym}$	0.09	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.33 (at 2.10Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, $R_{free}$	0.254 , 0.289 0.255 , 0.291	Depositor DCC
$R_{free}$ test set	2647 reflections (5.31%)	DCC
Wilson B-factor (Å <sup>2</sup> )	22.0	Xtriage
Anisotropy	0.169	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.23 , 62.8	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle  L  \rangle = 0.55$ , $\langle L^2 \rangle = 0.40$	Xtriage
Outliers	13 of 52453 reflections (0.025%)	Xtriage
$F_o, F_c$ correlation	0.89	EDS
Total number of atoms	9162	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	23.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 70.87 % of the origin peak, indicating pseudo translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo translational symmetry is equal to 2.9012e-06. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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



## 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: FE2, SO4, P6G

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	0.55	1/2291 (0.0%)	0.61	0/3111
1	B	0.56	0/2291	0.61	0/3111
1	C	0.33	0/2291	0.47	0/3111
1	D	0.33	0/2291	0.48	0/3111
All	All	0.46	1/9164 (0.0%)	0.55	0/12444

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	13	CYS	CB-SG	-5.64	1.72	1.81

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 5.2 Close contacts i

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2238	0	2173	26	1924
1	B	2238	0	2173	33	2769
1	C	2238	0	2173	135	2881
1	D	2238	0	2173	140	2032

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
3	A	19	0	26	2	0
3	B	19	0	26	9	16
4	A	5	0	0	0	3
4	B	5	0	0	0	10
5	A	77	0	0	0	21
5	B	80	0	0	0	101
5	C	1	0	0	0	0
All	All	9162	0	8744	325	4912

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 18.

All (325) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:168:PHE:CD1	1:C:186:CYS:HB3	1.20	1.63
1:C:217:LYS:NZ	1:C:247:TYR:CZ	1.76	1.53
1:C:168:PHE:HE1	1:C:186:CYS:SG	1.32	1.52
1:D:176:TRP:NE1	1:D:178:GLU:HG2	1.24	1.51
1:D:176:TRP:NE1	1:D:178:GLU:CG	1.81	1.42
1:D:176:TRP:HE1	1:D:178:GLU:CG	1.33	1.32
1:C:168:PHE:CE1	1:C:186:CYS:SG	2.20	1.32
1:D:217:LYS:NZ	1:D:247:TYR:CZ	1.98	1.30
1:C:168:PHE:CE1	1:C:186:CYS:HB3	1.66	1.29
1:C:168:PHE:CE1	1:C:186:CYS:CB	2.16	1.29
1:C:168:PHE:CD1	1:C:186:CYS:CB	2.14	1.27
1:C:9:LEU:CD1	1:C:210:LEU:HD11	1.68	1.24
1:D:176:TRP:CD1	1:D:178:GLU:HG2	1.72	1.23
1:D:176:TRP:HE1	1:D:178:GLU:CD	1.46	1.18
1:D:86:TYR:CE1	1:D:109:ASP:HA	1.80	1.16
1:C:13:CYS:HA	1:C:60:ASN:OD1	1.44	1.14
1:D:126:ASP:C	1:D:130:GLU:OE1	1.89	1.11
1:C:203:LYS:O	1:C:206:MET:HG3	1.49	1.11
1:C:176:TRP:NE1	1:C:178:GLU:HG2	1.69	1.08
1:D:202:LEU:HD22	1:D:206:MET:HE2	1.36	1.07
1:C:149:VAL:HG22	1:C:194:ALA:HB3	1.37	1.05
1:A:176:TRP:NE1	1:A:178:GLU:CG	2.19	1.05
1:C:236:MET:CE	1:C:287:HIS:HB3	1.86	1.04
1:C:29:ILE:HD12	1:C:261:LEU:HD13	1.32	1.04

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:176:TRP:NE1	1:A:178:GLU:HG2	1.73	1.04
1:D:155:ARG:HD2	1:D:182:PHE:CD2	1.93	1.03
1:C:217:LYS:NZ	1:C:247:TYR:OH	1.93	1.00
1:C:9:LEU:HD13	1:C:210:LEU:HD11	1.41	1.00
1:D:202:LEU:HD22	1:D:206:MET:CE	1.93	0.97
1:C:236:MET:HE3	1:C:287:HIS:HB3	1.43	0.97
1:D:188:GLN:HG3	1:D:268:ILE:O	1.65	0.96
1:A:176:TRP:HE1	1:A:178:GLU:CD	1.70	0.95
1:A:176:TRP:CD1	1:A:178:GLU:HG2	2.01	0.94
1:D:45:LEU:HD11	1:D:212:LEU:HD22	1.47	0.94
1:D:217:LYS:NZ	1:D:247:TYR:CE1	2.26	0.94
1:D:155:ARG:CD	1:D:182:PHE:CD2	2.51	0.93
1:C:19:GLU:OE1	1:C:35:ARG:NH2	2.02	0.93
1:C:217:LYS:NZ	1:C:247:TYR:CE1	2.24	0.92
1:D:45:LEU:HD11	1:D:212:LEU:CD2	2.00	0.92
1:D:244:ASP:OD2	1:D:246:VAL:HG22	1.69	0.91
1:D:173:ARG:HD2	1:D:182:PHE:CE1	2.05	0.91
1:D:36:ASP:OD2	1:D:40:ARG:HD2	1.70	0.91
1:D:82:GLU:OE1	1:D:88:VAL:N	2.02	0.91
1:C:176:TRP:NE1	1:C:178:GLU:CG	2.35	0.89
1:D:244:ASP:CG	1:D:246:VAL:HG22	1.92	0.89
1:B:251:MET:HE3	3:B:302:P6G:H62	1.55	0.89
1:C:19:GLU:CD	1:C:35:ARG:HH22	1.74	0.88
1:C:176:TRP:CD1	1:C:178:GLU:HG2	2.08	0.88
1:D:244:ASP:OD2	1:D:246:VAL:CG2	2.23	0.87
1:C:176:TRP:HE1	1:C:178:GLU:CG	1.87	0.86
1:D:45:LEU:CD1	1:D:212:LEU:HD22	2.05	0.86
1:C:168:PHE:HD1	1:C:186:CYS:CB	1.70	0.86
1:D:86:TYR:HE1	1:D:109:ASP:HA	1.39	0.86
1:C:170:LEU:HA	1:C:184:LEU:HD23	1.57	0.86
1:C:203:LYS:N	1:C:206:MET:SD	2.48	0.85
1:D:126:ASP:O	1:D:130:GLU:OE1	1.97	0.83
1:C:244:ASP:CG	1:C:246:VAL:HG23	1.99	0.82
1:D:17:VAL:HA	1:D:20:GLN:OE1	1.80	0.81
1:D:218:GLU:O	1:D:222:ARG:HG2	1.81	0.81
1:D:3:VAL:HG21	1:D:168:PHE:CE2	2.17	0.80
1:C:236:MET:HE2	1:C:287:HIS:HB3	1.63	0.79
1:C:13:CYS:CA	1:C:60:ASN:OD1	2.28	0.79
1:A:176:TRP:HE1	1:A:178:GLU:CG	1.90	0.79
1:C:241:HIS:HB2	1:C:244:ASP:OD1	1.83	0.79
1:B:251:MET:HE3	3:B:302:P6G:C6	2.13	0.78
1:C:244:ASP:OD2	1:C:246:VAL:CG2	2.32	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:149:VAL:HG21	1:D:209:HIS:CE1	2.21	0.76
1:C:168:PHE:HE1	1:C:186:CYS:CB	1.75	0.75
1:D:176:TRP:NE1	1:D:178:GLU:HG3	1.95	0.75
1:B:173:ARG:NH1	1:C:273:SER:OG	2.20	0.75
1:C:244:ASP:OD2	1:C:246:VAL:HG23	1.86	0.74
1:C:236:MET:CE	1:C:287:HIS:CB	2.66	0.74
1:D:149:VAL:HG22	1:D:194:ALA:HB3	1.69	0.73
1:D:173:ARG:HH11	1:D:182:PHE:HZ	1.30	0.72
1:B:173:ARG:HH12	1:C:270:ASP:CG	1.93	0.72
1:D:218:GLU:O	1:D:222:ARG:CG	2.38	0.72
1:B:173:ARG:NH1	1:C:270:ASP:CB	2.52	0.72
1:C:149:VAL:CG2	1:C:194:ALA:HB3	2.17	0.71
1:C:159:GLN:O	1:C:163:THR:OG1	2.04	0.71
1:D:176:TRP:CE2	1:D:178:GLU:CG	2.72	0.70
1:D:24:VAL:HG13	1:D:251:MET:HE1	1.73	0.70
1:B:173:ARG:NH1	1:C:270:ASP:HB3	2.07	0.70
1:D:217:LYS:NZ	1:D:247:TYR:OH	2.25	0.70
1:D:174:VAL:HG23	1:D:183:PHE:CE2	2.26	0.69
1:C:236:MET:HE2	1:C:287:HIS:CB	2.22	0.69
1:D:24:VAL:HG13	1:D:251:MET:CE	2.23	0.69
1:D:155:ARG:CD	1:D:182:PHE:CE2	2.76	0.68
1:C:9:LEU:HD13	1:C:210:LEU:CD1	2.22	0.68
1:C:126:ASP:O	1:C:130:GLU:HG3	1.94	0.68
1:C:29:ILE:HD13	1:C:261:LEU:HD22	1.74	0.68
1:C:32:VAL:HG23	1:C:129:LEU:HD13	1.74	0.68
1:A:232:TYR:CZ	3:A:302:P6G:H31	2.29	0.68
1:C:9:LEU:HD12	1:C:210:LEU:HD11	1.71	0.67
1:B:251:MET:CE	3:B:302:P6G:H62	2.23	0.67
1:C:102:ALA:O	1:C:103:GLN:HG3	1.95	0.67
1:D:173:ARG:NH1	1:D:182:PHE:CZ	2.59	0.66
1:D:11:PHE:CE1	1:D:62:LEU:HD13	2.30	0.66
1:D:176:TRP:NE1	1:D:178:GLU:CD	2.31	0.66
1:C:149:VAL:HG22	1:C:194:ALA:CB	2.20	0.65
1:D:36:ASP:OD2	1:D:40:ARG:CD	2.44	0.65
1:C:161:PHE:CD1	1:C:165:VAL:HG21	2.32	0.65
1:D:176:TRP:CZ2	1:D:179:ALA:HB3	2.33	0.64
1:D:128:VAL:O	1:D:131:SER:OG	2.13	0.64
1:C:176:TRP:HB2	1:C:177:PRO:HD2	1.80	0.64
1:C:151:ILE:HG13	1:C:202:LEU:HB3	1.80	0.64
1:D:176:TRP:CE2	1:D:178:GLU:HG3	2.33	0.63
1:C:168:PHE:HD1	1:C:186:CYS:HB3	0.84	0.63
1:B:232:TYR:CZ	3:B:302:P6G:H31	2.33	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:149:VAL:HG22	1:B:194:ALA:HB3	1.80	0.63
1:D:173:ARG:HD2	1:D:182:PHE:CZ	2.33	0.63
1:D:197:ALA:HB1	1:D:198:PRO:HD2	1.80	0.63
1:D:241:HIS:HB2	1:D:244:ASP:OD1	1.99	0.62
1:C:172:ASP:OD2	1:C:243:ASN:HB2	1.99	0.62
1:D:3:VAL:HG11	1:D:166:LEU:HD22	1.81	0.62
1:C:173:ARG:HD2	1:C:182:PHE:CE1	2.35	0.61
1:C:133:PHE:O	1:C:215:LYS:HE3	2.00	0.61
1:C:176:TRP:HE1	1:C:178:GLU:CD	2.04	0.61
1:C:3:VAL:HG23	1:C:166:LEU:O	2.01	0.61
1:D:17:VAL:HG11	1:D:60:ASN:OD1	2.00	0.61
1:D:162:PHE:HD2	1:D:168:PHE:CD2	2.19	0.60
1:C:67:TRP:HB2	1:C:117:LEU:HD23	1.82	0.60
1:B:176:TRP:NE1	1:B:178:GLU:HG2	2.17	0.60
1:C:176:TRP:HB2	1:C:177:PRO:CD	2.32	0.60
1:D:202:LEU:HD22	1:D:206:MET:HE1	1.83	0.60
1:D:216:SER:HB2	1:D:218:GLU:OE1	2.01	0.60
1:D:48:ARG:HG2	1:D:49:PRO:HD2	1.84	0.59
1:D:176:TRP:HB2	1:D:177:PRO:HD2	1.85	0.59
1:D:176:TRP:CH2	1:D:179:ALA:HB3	2.37	0.59
1:A:202:LEU:HD22	1:A:206:MET:CE	2.32	0.59
1:D:86:TYR:CD1	1:D:108:ALA:O	2.56	0.58
1:D:175:THR:OG1	1:D:180:ASP:OD1	2.21	0.58
1:C:10:ILE:HD12	1:C:64:ALA:HB3	1.84	0.58
1:D:74:LEU:HD22	1:D:119:VAL:HG23	1.85	0.58
1:D:176:TRP:HB2	1:D:177:PRO:CD	2.34	0.58
1:C:73:ASP:HB3	1:C:77:ILE:HD11	1.86	0.58
1:A:202:LEU:HD22	1:A:206:MET:HE2	1.84	0.58
1:C:146:GLY:HA2	1:C:189:ARG:CZ	2.33	0.58
1:D:81:VAL:HG12	1:D:86:TYR:HB2	1.85	0.57
1:C:3:VAL:CG1	1:C:67:TRP:HB3	2.33	0.57
1:B:173:ARG:NH1	1:C:270:ASP:CG	2.57	0.57
1:C:176:TRP:HE1	1:C:178:GLU:HG2	1.49	0.57
1:C:29:ILE:HD11	1:C:261:LEU:HB2	1.85	0.57
1:D:3:VAL:CG1	1:D:166:LEU:HD22	2.33	0.57
1:D:127:PRO:N	1:D:130:GLU:OE1	2.37	0.57
1:D:289:LEU:O	1:D:290:GLN:HB2	2.05	0.57
1:C:9:LEU:HD11	1:C:210:LEU:HD11	1.79	0.57
1:C:244:ASP:OD2	1:C:246:VAL:HG21	2.04	0.57
1:C:6:LEU:HD21	1:C:9:LEU:HD21	1.85	0.57
1:B:160:SER:HB2	1:C:275:HIS:HE1	1.68	0.57
1:D:202:LEU:CD2	1:D:206:MET:CE	2.77	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:244:ASP:OD2	1:D:246:VAL:HG21	2.03	0.56
1:D:3:VAL:HA	1:D:69:VAL:HG12	1.87	0.56
1:A:149:VAL:HG22	1:A:194:ALA:HB3	1.86	0.56
1:B:232:TYR:CG	3:B:302:P6G:H51	2.41	0.56
1:D:128:VAL:HG23	1:D:129:LEU:N	2.21	0.56
1:C:155:ARG:HD2	1:C:182:PHE:CD2	2.40	0.56
1:C:29:ILE:CD1	1:C:261:LEU:HB2	2.36	0.56
1:A:173:ARG:HH11	1:A:182:PHE:HZ	1.53	0.56
1:D:151:ILE:HD11	1:D:202:LEU:HD12	1.86	0.56
1:D:155:ARG:NE	1:D:182:PHE:CE2	2.75	0.55
1:C:197:ALA:HB1	1:C:198:PRO:HD2	1.88	0.55
1:D:13:CYS:HB2	1:D:18:LEU:HD12	1.88	0.55
1:D:10:ILE:HD12	1:D:64:ALA:HB3	1.88	0.55
1:C:268:ILE:HD12	1:C:274:TRP:CD2	2.42	0.55
1:D:22:VAL:HG21	1:D:35:ARG:HH21	1.73	0.54
1:B:202:LEU:HD22	1:B:206:MET:CE	2.38	0.54
1:D:173:ARG:NH1	1:D:182:PHE:HZ	1.97	0.54
1:D:84:ALA:O	1:D:85:CYS:HB2	2.07	0.54
1:D:155:ARG:CZ	1:D:182:PHE:CZ	2.91	0.54
1:B:176:TRP:HB2	1:B:177:PRO:CD	2.37	0.54
1:B:246:VAL:HG12	1:B:248:SER:HB3	1.89	0.54
1:D:148:LEU:HD11	1:D:207:VAL:HG13	1.90	0.54
1:C:17:VAL:HG21	1:C:60:ASN:ND2	2.22	0.53
1:D:155:ARG:CZ	1:D:182:PHE:CE2	2.92	0.53
1:B:151:ILE:HG13	1:B:202:LEU:HB3	1.90	0.53
1:C:4:LYS:HE2	1:C:142:ILE:HD12	1.91	0.53
1:C:69:VAL:HG21	1:C:74:LEU:HD13	1.90	0.53
1:D:244:ASP:OD1	1:D:246:VAL:HG22	2.08	0.53
1:B:202:LEU:HD22	1:B:206:MET:HE2	1.90	0.53
1:D:3:VAL:CG2	1:D:168:PHE:CE2	2.90	0.53
1:D:176:TRP:HH2	1:D:181:ILE:HD12	1.74	0.53
1:D:151:ILE:HG13	1:D:202:LEU:CD1	2.40	0.52
1:D:176:TRP:CH2	1:D:181:ILE:HD12	2.45	0.52
1:D:3:VAL:HG21	1:D:168:PHE:CZ	2.44	0.52
1:D:173:ARG:CZ	1:D:180:ASP:OD1	2.57	0.52
1:C:21:MET:HE2	1:C:25:TYR:HE2	1.75	0.52
1:C:17:VAL:HG21	1:C:60:ASN:HD21	1.74	0.52
1:D:174:VAL:HG23	1:D:183:PHE:HE2	1.72	0.51
1:D:155:ARG:HD3	1:D:182:PHE:CE2	2.44	0.51
1:C:236:MET:CE	1:C:287:HIS:CG	2.93	0.51
1:D:241:HIS:CB	1:D:244:ASP:OD1	2.58	0.51
1:D:174:VAL:CG2	1:D:183:PHE:CE2	2.94	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:149:VAL:CG2	1:D:209:HIS:CE1	2.93	0.51
1:C:29:ILE:CD1	1:C:261:LEU:HD13	2.23	0.51
1:C:197:ALA:HB1	1:C:198:PRO:CD	2.40	0.51
1:D:202:LEU:CD2	1:D:206:MET:HE1	2.40	0.51
1:D:45:LEU:HD11	1:D:212:LEU:HD21	1.88	0.51
1:D:126:ASP:N	1:D:130:GLU:OE1	2.44	0.51
1:C:147:HIS:HB3	1:C:191:HIS:O	2.11	0.51
1:B:160:SER:HB2	1:C:275:HIS:CE1	2.45	0.50
1:D:45:LEU:CD1	1:D:212:LEU:CD2	2.75	0.50
1:A:149:VAL:HG21	1:A:209:HIS:CE1	2.46	0.50
1:C:155:ARG:CD	1:C:182:PHE:CD2	2.95	0.50
1:B:251:MET:CE	3:B:302:P6G:C6	2.85	0.50
1:D:32:VAL:HG23	1:D:129:LEU:CD1	2.42	0.50
1:D:126:ASP:H	1:D:130:GLU:CD	2.15	0.50
1:D:224:PHE:HE1	1:D:234:VAL:HG11	1.78	0.49
1:D:7:GLY:HA3	1:D:118:TYR:OH	2.13	0.49
1:A:176:TRP:NE1	1:A:178:GLU:HG3	2.23	0.49
1:C:111:ASP:OD1	1:C:152:VAL:HA	2.12	0.49
1:C:236:MET:HB2	1:C:250:TYR:HB2	1.95	0.49
1:D:151:ILE:HG13	1:D:202:LEU:HD13	1.95	0.48
1:C:7:GLY:HA3	1:C:118:TYR:OH	2.13	0.48
1:A:176:TRP:CE2	1:A:178:GLU:CG	2.94	0.48
1:D:45:LEU:HD13	1:D:212:LEU:HD22	1.91	0.48
1:D:147:HIS:HB3	1:D:191:HIS:O	2.13	0.48
1:C:217:LYS:HG3	1:C:247:TYR:CE2	2.48	0.48
1:D:218:GLU:O	1:D:222:ARG:HG3	2.12	0.48
1:C:73:ASP:O	1:C:77:ILE:HG13	2.13	0.48
1:D:148:LEU:CD1	1:D:207:VAL:HG13	2.43	0.48
1:C:12:GLU:O	1:C:60:ASN:HA	2.14	0.48
1:C:3:VAL:HG13	1:C:67:TRP:HB3	1.96	0.47
1:C:203:LYS:O	1:C:206:MET:CG	2.41	0.47
1:C:128:VAL:O	1:C:131:SER:OG	2.26	0.47
1:D:91:ALA:HB1	1:D:95:LEU:HB3	1.96	0.47
1:A:240:GLN:HA	1:A:246:VAL:O	2.14	0.47
1:A:176:TRP:CE2	1:A:178:GLU:HG3	2.49	0.47
1:C:29:ILE:HD12	1:C:261:LEU:CD1	2.24	0.47
1:C:241:HIS:CB	1:C:244:ASP:OD1	2.60	0.47
1:B:251:MET:HE1	3:B:302:P6G:H52	1.97	0.47
1:C:289:LEU:O	1:C:290:GLN:HB2	2.13	0.47
1:C:240:GLN:HA	1:C:246:VAL:O	2.15	0.47
1:D:44:ARG:NH2	1:D:126:ASP:OD2	2.45	0.47
1:D:162:PHE:CD2	1:D:168:PHE:CE2	3.03	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:106:GLN:HG3	1:B:116:GLU:HG2	1.97	0.47
1:B:155:ARG:HD3	1:B:182:PHE:CD2	2.51	0.46
1:C:203:LYS:HB3	1:C:204:PRO:HD2	1.97	0.46
1:C:29:ILE:CD1	1:C:261:LEU:HD22	2.44	0.46
1:D:48:ARG:CG	1:D:49:PRO:HD2	2.45	0.46
1:D:77:ILE:O	1:D:81:VAL:HG23	2.15	0.46
1:B:173:ARG:HH12	1:C:270:ASP:CB	2.26	0.46
1:C:11:PHE:HB2	1:C:54:LEU:HD23	1.97	0.46
1:B:232:TYR:CD2	3:B:302:P6G:H51	2.51	0.46
1:C:158:THR:HG22	1:C:195:LEU:HD11	1.97	0.46
1:C:171:SER:OG	1:C:185:HIS:ND1	2.30	0.46
1:D:22:VAL:HG13	1:D:33:VAL:HG11	1.96	0.46
1:D:168:PHE:CD1	1:D:186:CYS:HB3	2.50	0.46
1:A:155:ARG:HD3	1:A:182:PHE:CD2	2.51	0.46
1:D:86:TYR:CZ	1:D:109:ASP:HA	2.46	0.46
1:D:151:ILE:CD1	1:D:202:LEU:HD12	2.46	0.46
1:B:244:ASP:O	1:B:245:LYS:HB2	2.15	0.46
1:B:176:TRP:CH2	1:B:179:ALA:HB3	2.51	0.45
1:D:19:GLU:OE2	1:D:35:ARG:NH2	2.48	0.45
1:C:239:GLY:C	1:C:287:HIS:CE1	2.89	0.45
1:A:218:GLU:CD	1:A:218:GLU:H	2.18	0.45
1:C:3:VAL:HG11	1:C:67:TRP:HB3	1.98	0.45
1:C:10:ILE:HD11	1:C:99:ARG:CD	2.47	0.45
1:D:6:LEU:HB2	1:D:192:THR:CG2	2.47	0.45
1:C:217:LYS:HG3	1:C:247:TYR:CD2	2.52	0.44
1:D:35:ARG:HD3	1:D:40:ARG:O	2.17	0.44
1:B:20:GLN:HB3	3:B:302:P6G:H22	1.98	0.44
1:D:162:PHE:CD2	1:D:168:PHE:CD2	3.03	0.44
1:C:235:LEU:HD22	1:C:252:MET:HE2	1.99	0.44
1:D:19:GLU:CD	1:D:35:ARG:NH2	2.71	0.44
1:D:11:PHE:CZ	1:D:62:LEU:HD13	2.52	0.44
1:A:151:ILE:HG13	1:A:202:LEU:HB3	1.99	0.44
1:C:238:ILE:HG21	1:C:247:TYR:CZ	2.53	0.44
1:C:268:ILE:HD12	1:C:274:TRP:CE2	2.53	0.44
1:D:244:ASP:O	1:D:245:LYS:HB2	2.18	0.44
1:C:32:VAL:CG2	1:C:129:LEU:HD13	2.46	0.44
1:C:210:LEU:HD23	1:C:211:MET:H	1.83	0.44
1:C:150:VAL:HG23	1:C:195:LEU:HD23	2.00	0.44
1:B:241:HIS:HB2	1:B:244:ASP:OD1	2.18	0.44
1:B:272:GLU:O	1:C:245:LYS:HE3	2.18	0.44
1:D:48:ARG:HE	1:D:120:GLU:CD	2.19	0.43
1:D:275:HIS:HD2	1:D:276:VAL:O	2.01	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:151:ILE:HD11	1:C:202:LEU:CD1	2.48	0.43
1:D:236:MET:HB2	1:D:250:TYR:HB2	2.00	0.43
1:A:176:TRP:HB2	1:A:177:PRO:CD	2.49	0.43
1:C:161:PHE:O	1:C:165:VAL:HB	2.18	0.43
1:D:146:GLY:HA2	1:D:189:ARG:CZ	2.49	0.43
1:D:32:VAL:HG23	1:D:129:LEU:HD11	2.01	0.43
1:C:141:GLY:HA3	1:C:188:GLN:HG2	2.01	0.43
1:C:22:VAL:HG21	1:C:35:ARG:NH2	2.34	0.42
1:B:2:SER:HB2	1:B:167:GLY:HA3	2.01	0.42
1:D:17:VAL:HG21	1:D:60:ASN:HD21	1.83	0.42
1:D:91:ALA:CB	1:D:95:LEU:HD23	2.48	0.42
1:A:198:PRO:HG3	1:A:204:PRO:HD3	2.01	0.42
1:D:168:PHE:CE1	1:D:186:CYS:HB3	2.55	0.42
1:B:240:GLN:HA	1:B:246:VAL:O	2.19	0.42
1:C:188:GLN:HB3	1:C:267:VAL:HG13	2.01	0.42
1:C:218:GLU:CD	1:C:218:GLU:H	2.23	0.42
1:B:147:HIS:HB3	1:B:191:HIS:O	2.18	0.42
1:A:176:TRP:HB2	1:A:177:PRO:HD2	2.00	0.42
1:D:188:GLN:HB3	1:D:267:VAL:HG13	2.00	0.42
1:C:40:ARG:NH2	1:C:53:ARG:NH2	2.68	0.42
1:D:162:PHE:HD2	1:D:168:PHE:CE2	2.38	0.42
1:D:142:ILE:HG22	1:D:187:ASN:HD22	1.85	0.42
1:C:168:PHE:HD1	1:C:186:CYS:CA	2.30	0.41
1:D:217:LYS:CE	1:D:247:TYR:CE1	3.01	0.41
1:C:67:TRP:NE1	1:C:115:HIS:ND1	2.52	0.41
1:C:69:VAL:CG2	1:C:74:LEU:HD13	2.49	0.41
1:C:8:TYR:OH	1:C:116:GLU:OE1	2.33	0.41
1:D:64:ALA:HB1	1:D:116:GLU:CD	2.40	0.41
1:C:6:LEU:HG	1:C:145:LEU:CD2	2.51	0.41
1:A:232:TYR:CD2	3:A:302:P6G:H51	2.55	0.41
1:C:21:MET:CE	1:C:25:TYR:CE2	3.03	0.41
1:D:172:ASP:OD2	1:D:190:HIS:NE2	2.46	0.41
1:C:174:VAL:HG23	1:C:183:PHE:CE2	2.55	0.41
1:C:138:GLU:OE2	1:C:215:LYS:NZ	2.47	0.41
1:A:176:TRP:NE1	1:A:178:GLU:CD	2.46	0.41
1:D:171:SER:HA	1:D:274:TRP:HE1	1.86	0.41
1:A:67:TRP:HH2	1:A:193:VAL:CG2	2.33	0.41
1:A:176:TRP:NE1	1:A:178:GLU:OE2	2.47	0.41
1:D:19:GLU:CD	1:D:35:ARG:HH22	2.24	0.41
1:C:34:GLU:OE2	1:C:44:ARG:NH1	2.42	0.41
1:C:46:ASP:CA	1:C:129:LEU:HD23	2.51	0.41
1:A:246:VAL:CG1	1:A:248:SER:HB3	2.52	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:142:ILE:HG22	1:D:187:ASN:ND2	2.36	0.40
1:D:150:VAL:HG22	1:D:195:LEU:HD23	2.03	0.40
1:D:128:VAL:CG2	1:D:129:LEU:N	2.84	0.40
1:D:155:ARG:NE	1:D:182:PHE:CD2	2.89	0.40
1:C:10:ILE:HD11	1:C:99:ARG:HD2	2.02	0.40
1:C:21:MET:CE	1:C:25:TYR:HE2	2.34	0.40
1:C:43:VAL:HB	1:C:52:ILE:HB	2.03	0.40

All (4912) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:219:GLN:N	1:D:150:VAL:CG1[8_565]	0.07	2.13
1:A:207:VAL:N	1:C:222:ARG:CA[8_565]	0.11	2.09
1:B:157:LYS:O	1:C:168:PHE:N[7_555]	0.11	2.09
1:B:168:PHE:N	1:C:157:LYS:O[7_555]	0.11	2.09
1:B:240:GLN:NE2	1:D:155:ARG:NH2[8_565]	0.17	2.03
1:A:82:GLU:N	1:C:136:GLY:C[8_565]	0.18	2.02
1:B:167:GLY:C	1:C:157:LYS:C[7_555]	0.18	2.02
1:A:204:PRO:C	1:C:249:PHE:CZ[8_565]	0.20	2.00
1:A:214:ALA:N	1:D:138:GLU:OE2[7_555]	0.20	2.00
1:B:131:SER:O	1:D:67:TRP:NE1[8_565]	0.21	1.99
1:B:222:ARG:CA	1:D:207:VAL:N[8_565]	0.21	1.99
1:B:145:LEU:N	1:D:85:CYS:O[8_565]	0.22	1.98
1:A:108:ALA:CB	1:C:45:LEU:CD2[8_565]	0.25	1.95
1:B:47:GLY:C	1:D:89:VAL:CA[8_565]	0.28	1.92
1:B:157:LYS:C	1:C:167:GLY:C[7_555]	0.28	1.92
1:C:62:LEU:C	5:B:579:HOH:O[7_555]	0.28	1.92
1:A:137:GLU:CA	1:D:219:GLN:CB[7_555]	0.29	1.91
1:B:56:PRO:CB	1:C:41:ALA:C[6_455]	0.29	1.91
1:A:162:PHE:CZ	1:C:215:LYS:C[8_565]	0.30	1.90
1:B:40:ARG:N	1:C:40:ARG:CG[6_455]	0.30	1.90
1:B:116:GLU:O	1:C:108:ALA:CA[7_555]	0.30	1.90
1:A:14:ARG:O	1:C:121:SER:N[6_455]	0.31	1.89
1:A:14:ARG:NE	1:C:119:VAL:N[6_455]	0.32	1.88
1:B:80:GLN:OE1	1:C:194:ALA:O[7_555]	0.32	1.88
1:A:85:CYS:O	1:C:145:LEU:N[8_565]	0.33	1.87
1:A:218:GLU:CA	1:D:142:ILE:CG1[7_555]	0.33	1.87
1:A:89:VAL:CA	1:C:47:GLY:C[8_565]	0.34	1.86
1:A:137:GLU:N	1:D:219:GLN:CG[7_555]	0.34	1.86
1:B:41:ALA:C	1:C:56:PRO:CB[6_455]	0.34	1.86
1:A:138:GLU:O	1:D:220:VAL:CG2[7_555]	0.35	1.85

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:238:ILE:N	1:D:198:PRO:CB[8_565]	0.35	1.85
1:B:255:ALA:O	1:C:254:PRO:CG[6_455]	0.35	1.85
1:A:111:ASP:OD1	1:C:261:LEU:C[8_565]	0.36	1.84
1:B:238:ILE:CG2	1:D:197:ALA:C[8_565]	0.36	1.84
1:A:14:ARG:CD	1:C:119:VAL:CA[6_455]	0.37	1.83
1:A:220:VAL:CG2	1:D:138:GLU:O[7_555]	0.37	1.83
1:C:17:VAL:C	5:B:558:HOH:O[6_555]	0.37	1.83
1:A:138:GLU:OE2	1:D:214:ALA:N[7_555]	0.38	1.82
1:B:128:VAL:CG1	1:D:8:TYR:OH[8_565]	0.38	1.82
1:A:8:TYR:OH	1:C:128:VAL:CG2[8_565]	0.39	1.81
1:B:63:ALA:CB	1:C:90:THR:N[7_555]	0.39	1.81
1:B:90:THR:N	1:C:63:ALA:CB[7_555]	0.39	1.81
1:B:119:VAL:CA	1:D:14:ARG:CD[6_455]	0.40	1.80
1:B:136:GLY:C	1:D:82:GLU:N[8_565]	0.40	1.80
1:B:140:ASN:ND2	1:D:164:ASP:C[8_565]	0.40	1.80
1:B:144:GLY:C	1:D:85:CYS:C[8_565]	0.40	1.80
1:B:194:ALA:O	1:C:80:GLN:OE1[7_555]	0.40	1.80
1:A:18:LEU:N	1:C:121:SER:C[6_455]	0.41	1.79
1:A:150:VAL:CG1	1:C:219:GLN:N[8_565]	0.41	1.79
1:A:161:PHE:CD2	1:C:134:VAL:CG2[8_565]	0.41	1.79
1:A:263:PHE:CE1	1:D:143:PHE:CZ[7_555]	0.41	1.79
1:B:23:VAL:CG2	1:C:61:ARG:CB[6_455]	0.41	1.79
1:B:118:TYR:C	1:D:14:ARG:CZ[6_455]	0.41	1.79
1:B:119:VAL:N	1:D:14:ARG:NE[6_455]	0.41	1.79
1:B:205:GLY:O	1:C:75:ALA:CA[7_555]	0.41	1.79
1:B:212:LEU:N	1:D:110:ASN:CB[8_565]	0.41	1.79
1:D:107:PHE:CD2	5:B:561:HOH:O[8_655]	0.41	1.79
1:A:198:PRO:CB	1:C:238:ILE:N[8_565]	0.42	1.78
1:A:219:GLN:C	1:D:137:GLU:CG[7_555]	0.42	1.78
1:B:108:ALA:CA	1:C:116:GLU:O[7_555]	0.42	1.78
1:B:121:SER:N	1:D:14:ARG:O[6_455]	0.42	1.78
1:B:121:SER:C	1:D:18:LEU:N[6_455]	0.42	1.78
1:A:67:TRP:NE1	1:C:131:SER:O[8_565]	0.43	1.77
1:B:143:PHE:CA	1:D:84:ALA:CA[8_565]	0.43	1.77
1:C:53:ARG:O	5:B:513:HOH:O[6_555]	0.43	1.77
1:A:162:PHE:CE2	1:C:215:LYS:O[8_565]	0.44	1.76
1:B:51:ARG:NE	1:D:87:SER:CA[8_565]	0.44	1.76
1:B:143:PHE:N	1:D:84:ALA:N[8_565]	0.44	1.76
1:B:143:PHE:CB	1:D:84:ALA:CB[8_565]	0.44	1.76
1:B:261:LEU:C	1:D:111:ASP:OD1[8_565]	0.44	1.76
1:A:85:CYS:C	1:C:144:GLY:C[8_565]	0.45	1.75
1:A:219:GLN:CG	1:D:137:GLU:N[7_555]	0.45	1.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:86:TYR:CD2	1:C:67:TRP:CD2[7_555]	0.45	1.75
1:A:58:PRO:CB	1:C:104:VAL:N[6_455]	0.46	1.74
1:A:84:ALA:N	1:C:143:PHE:N[8_565]	0.46	1.74
1:A:106:GLN:O	1:C:46:ASP:CA[8_565]	0.46	1.74
1:A:84:ALA:CA	1:C:143:PHE:CA[8_565]	0.47	1.73
1:B:19:GLU:CG	1:C:11:PHE:N[6_455]	0.47	1.73
1:A:26:GLN:CG	1:D:124:PRO:CB[7_555]	0.48	1.72
1:A:83:LYS:CG	1:C:142:ILE:CG1[8_565]	0.48	1.72
1:A:84:ALA:CB	1:C:143:PHE:CB[8_565]	0.48	1.72
1:A:219:GLN:CB	1:D:137:GLU:CA[7_555]	0.48	1.72
1:B:61:ARG:CB	1:C:23:VAL:CG2[6_455]	0.48	1.72
1:B:134:VAL:CG2	1:D:161:PHE:CD2[8_565]	0.48	1.72
1:A:160:SER:CB	1:C:265:GLY:O[8_565]	0.49	1.71
1:A:216:SER:CB	1:D:143:PHE:N[7_555]	0.49	1.71
1:B:163:THR:O	1:C:159:GLN:CA[7_555]	0.49	1.71
1:B:263:PHE:CD2	1:D:195:LEU:CD1[8_565]	0.49	1.71
1:A:138:GLU:CD	1:D:214:ALA:CA[7_555]	0.50	1.70
1:B:11:PHE:N	1:C:19:GLU:CG[6_455]	0.50	1.70
1:B:40:ARG:CG	1:C:40:ARG:N[6_455]	0.50	1.70
1:B:116:GLU:N	1:C:107:PHE:O[7_555]	0.50	1.70
1:A:110:ASN:CB	1:C:212:LEU:N[8_565]	0.51	1.69
1:B:45:LEU:C	1:D:107:PHE:CA[8_565]	0.51	1.69
1:B:118:TYR:CA	1:D:14:ARG:NH2[6_455]	0.51	1.69
1:A:137:GLU:CG	1:D:219:GLN:C[7_555]	0.52	1.68
1:A:197:ALA:C	1:C:238:ILE:CG2[8_565]	0.52	1.68
1:B:88:VAL:CG2	1:C:65:ILE:CG1[7_555]	0.53	1.67
1:B:104:VAL:N	1:D:58:PRO:CB[6_455]	0.53	1.67
1:B:249:PHE:CD2	1:D:204:PRO:CA[8_565]	0.53	1.67
1:B:265:GLY:O	1:D:160:SER:CB[8_565]	0.53	1.67
1:B:158:THR:CA	1:C:167:GLY:N[7_555]	0.54	1.66
1:C:31:ALA:N	5:A:563:HOH:O[8_655]	0.54	1.66
1:D:85:CYS:SG	5:B:539:HOH:O[8_655]	0.54	1.66
1:A:139:ALA:CB	1:D:262:GLY:CA[7_555]	0.55	1.65
1:B:22:VAL:C	1:C:59:ALA:O[6_455]	0.55	1.65
1:B:75:ALA:CA	1:C:205:GLY:O[7_555]	0.55	1.65
1:B:167:GLY:N	1:C:158:THR:CA[7_555]	0.55	1.65
1:A:159:GLN:N	1:C:264:GLY:CA[8_565]	0.56	1.64
1:B:59:ALA:O	1:C:22:VAL:C[6_455]	0.56	1.64
1:B:111:ASP:CB	1:C:77:ILE:CD1[7_555]	0.56	1.64
1:B:144:GLY:N	1:D:85:CYS:N[8_565]	0.56	1.64
1:B:162:PHE:CA	1:C:161:PHE:C[7_555]	0.56	1.64
1:B:107:PHE:O	1:C:116:GLU:N[7_555]	0.57	1.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:161:PHE:C	1:C:162:PHE:CA[7_555]	0.57	1.63
1:C:2:SER:CA	5:B:574:HOH:O[7_555]	0.57	1.63
1:A:143:PHE:CZ	1:D:263:PHE:CE1[7_555]	0.58	1.62
1:A:262:GLY:CA	1:D:139:ALA:CB[7_555]	0.58	1.62
1:B:85:CYS:O	1:C:6:LEU:CB[7_555]	0.58	1.62
1:B:167:GLY:CA	1:C:158:THR:N[7_555]	0.58	1.62
1:A:142:ILE:CG1	1:D:218:GLU:CA[7_555]	0.59	1.61
1:B:46:ASP:CA	1:D:106:GLN:O[8_565]	0.59	1.61
1:B:137:GLU:CG	1:D:79:GLU:CA[8_565]	0.59	1.61
1:B:221:ASP:N	1:D:151:ILE:N[8_565]	0.59	1.61
1:B:264:GLY:N	1:D:158:THR:C[8_565]	0.59	1.61
1:A:85:CYS:N	1:C:144:GLY:N[8_565]	0.60	1.60
1:B:40:ARG:NE	1:C:39:GLY:N[6_455]	0.60	1.60
1:B:65:ILE:CG1	1:C:88:VAL:CG2[7_555]	0.60	1.60
1:B:144:GLY:CA	1:D:85:CYS:CA[8_565]	0.60	1.60
1:B:157:LYS:CA	1:C:167:GLY:O[7_555]	0.60	1.60
1:B:157:LYS:NZ	1:C:186:CYS:C[7_555]	0.60	1.60
1:B:159:GLN:CA	1:C:163:THR:O[7_555]	0.60	1.60
1:A:88:VAL:CA	1:C:46:ASP:OD2[8_565]	0.61	1.59
1:B:167:GLY:O	1:C:157:LYS:CA[7_555]	0.61	1.59
1:A:218:GLU:CG	1:D:142:ILE:CG2[7_555]	0.62	1.58
1:A:264:GLY:N	1:D:140:ASN:ND2[7_555]	0.62	1.58
1:B:89:VAL:O	1:C:63:ALA:O[7_555]	0.62	1.58
1:B:133:PHE:CZ	1:D:113:PHE:O[8_565]	0.62	1.58
1:C:66:GLY:CA	5:B:562:HOH:O[7_555]	0.62	1.58
1:B:6:LEU:CB	1:C:85:CYS:O[7_555]	0.63	1.57
1:B:25:TYR:CG	1:C:14:ARG:CG[6_455]	0.63	1.57
1:B:122:SER:O	1:D:18:LEU:C[6_455]	0.63	1.57
1:B:222:ARG:CG	1:D:207:VAL:CB[8_565]	0.63	1.57
1:B:224:PHE:CD1	1:D:203:LYS:CA[8_565]	0.63	1.57
1:B:245:LYS:C	1:D:156:ALA:CB[8_565]	0.63	1.57
1:B:247:TYR:N	1:D:155:ARG:CA[8_565]	0.63	1.57
1:D:86:TYR:CZ	5:B:521:HOH:O[8_655]	0.63	1.57
1:A:58:PRO:CA	1:C:103:GLN:C[6_455]	0.64	1.56
1:A:85:CYS:CA	1:C:144:GLY:CA[8_565]	0.64	1.56
1:A:107:PHE:CA	1:C:45:LEU:C[8_565]	0.64	1.56
1:A:143:PHE:N	1:D:216:SER:CB[7_555]	0.64	1.56
1:A:158:THR:C	1:C:264:GLY:N[8_565]	0.64	1.56
1:D:280:ASP:OD1	1:D:285:TRP:N[7_645]	0.64	1.56
1:A:14:ARG:CZ	1:C:118:TYR:C[6_455]	0.65	1.55
1:A:86:TYR:CD2	1:C:134:VAL:O[8_565]	0.65	1.55
1:A:129:LEU:CD2	1:D:129:LEU:CD2[7_555]	0.65	1.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:164:ASP:C	1:C:140:ASN:ND2[8_565]	0.65	1.55
1:C:17:VAL:N	5:B:557:HOH:O[6_555]	0.65	1.55
1:A:32:VAL:CB	1:D:44:ARG:NH2[7_555]	0.66	1.54
1:B:143:PHE:C	1:D:84:ALA:C[8_565]	0.66	1.54
1:B:149:VAL:CB	1:C:83:LYS:CE[7_555]	0.66	1.54
1:A:16:ASP:N	1:C:120:GLU:CD[6_455]	0.67	1.53
1:A:207:VAL:CB	1:C:222:ARG:CG[8_565]	0.67	1.53
1:B:158:THR:N	1:C:167:GLY:CA[7_555]	0.67	1.53
1:B:224:PHE:CD2	1:D:202:LEU:C[8_565]	0.67	1.53
1:B:264:GLY:CA	1:D:159:GLN:N[8_565]	0.67	1.53
1:A:217:LYS:CA	1:D:141:GLY:C[7_555]	0.68	1.52
1:B:85:CYS:SG	1:C:146:GLY:O[7_555]	0.68	1.52
1:B:115:HIS:ND1	1:C:107:PHE:CZ[7_555]	0.68	1.52
1:B:215:LYS:C	1:D:162:PHE:CE1[8_565]	0.68	1.52
1:B:249:PHE:CE2	1:D:204:PRO:C[8_565]	0.68	1.52
1:A:195:LEU:CD1	1:C:263:PHE:CD2[8_565]	0.69	1.51
1:A:214:ALA:CA	1:D:138:GLU:CD[7_555]	0.69	1.51
1:B:3:VAL:CG2	1:C:86:TYR:OH[7_555]	0.69	1.51
1:B:41:ALA:N	1:C:56:PRO:CD[6_455]	0.69	1.51
1:B:63:ALA:O	1:C:89:VAL:O[7_555]	0.69	1.51
1:B:86:TYR:OH	1:C:3:VAL:CG1[7_555]	0.69	1.51
1:B:103:GLN:CG	1:D:59:ALA:CA[6_455]	0.69	1.51
1:B:159:GLN:C	1:C:163:THR:C[7_555]	0.69	1.51
1:A:84:ALA:C	1:C:143:PHE:C[8_565]	0.70	1.50
1:A:113:PHE:O	1:C:133:PHE:CZ[8_565]	0.70	1.50
1:A:155:ARG:CA	1:C:247:TYR:N[8_565]	0.70	1.50
1:A:206:MET:CE	1:C:225:ALA:CA[8_565]	0.70	1.50
1:B:58:PRO:O	1:C:25:TYR:C[6_455]	0.70	1.50
1:B:142:ILE:CA	1:D:83:LYS:CB[8_565]	0.70	1.50
1:B:225:ALA:CA	1:D:206:MET:CE[8_565]	0.70	1.50
1:D:199:ALA:N	5:B:580:HOH:O[8_655]	0.70	1.50
1:A:104:VAL:CA	1:C:127:PRO:CD[8_565]	0.71	1.49
1:A:107:PHE:CZ	1:C:133:PHE:O[8_565]	0.71	1.49
1:A:142:ILE:CD1	1:D:218:GLU:C[7_555]	0.71	1.49
1:B:248:SER:CB	1:D:154:ASP:N[8_565]	0.71	1.49
1:B:103:GLN:C	1:D:58:PRO:CA[6_455]	0.72	1.48
1:B:107:PHE:CZ	1:C:115:HIS:ND1[7_555]	0.72	1.48
1:B:133:PHE:CZ	1:D:113:PHE:C[8_565]	0.72	1.48
1:B:162:PHE:CB	1:C:161:PHE:O[7_555]	0.72	1.48
1:A:45:LEU:CA	1:D:129:LEU:CA[7_555]	0.73	1.47
1:A:87:SER:CA	1:C:51:ARG:NE[8_565]	0.73	1.47
1:A:90:THR:CG2	1:C:124:PRO:CB[8_565]	0.73	1.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:115:HIS:CE1	1:C:132:LEU:O[8_565]	0.73	1.47
1:A:151:ILE:N	1:C:221:ASP:N[8_565]	0.73	1.47
1:A:155:ARG:NH2	1:C:240:GLN:CD[8_565]	0.73	1.47
1:B:114:THR:CB	1:C:105:ARG:C[7_555]	0.73	1.47
1:B:134:VAL:CA	1:D:161:PHE:CZ[8_565]	0.73	1.47
1:A:107:PHE:CA	1:C:45:LEU:O[8_565]	0.74	1.46
1:A:115:HIS:CG	1:C:132:LEU:C[8_565]	0.74	1.46
1:A:158:THR:CB	1:C:263:PHE:CA[8_565]	0.74	1.46
1:B:83:LYS:CB	1:C:148:LEU:O[7_555]	0.74	1.46
1:A:83:LYS:CB	1:C:142:ILE:CA[8_565]	0.75	1.45
1:A:108:ALA:N	1:C:45:LEU:CB[8_565]	0.75	1.45
1:A:115:HIS:O	1:C:129:LEU:C[8_565]	0.75	1.45
1:A:116:GLU:CB	1:C:128:VAL:C[8_565]	0.75	1.45
1:A:125:THR:CG2	1:D:25:TYR:C[7_555]	0.75	1.45
1:A:137:GLU:CG	1:D:219:GLN:O[7_555]	0.75	1.45
1:A:161:PHE:CE1	1:C:134:VAL:CG1[8_565]	0.75	1.45
1:B:48:ARG:C	1:D:89:VAL:CG1[8_565]	0.75	1.45
1:B:103:GLN:CA	1:D:59:ALA:N[6_455]	0.75	1.45
1:B:106:GLN:NE2	1:C:106:GLN:OE1[7_555]	0.75	1.45
1:B:107:PHE:C	1:C:116:GLU:N[7_555]	0.75	1.45
1:B:114:THR:CA	1:C:105:ARG:O[7_555]	0.75	1.45
1:B:128:VAL:C	1:D:116:GLU:CB[8_565]	0.75	1.45
1:B:134:VAL:CG1	1:D:161:PHE:CE1[8_565]	0.75	1.45
1:B:211:MET:O	1:D:110:ASN:ND2[8_565]	0.75	1.45
1:A:155:ARG:CZ	1:C:240:GLN:NE2[8_565]	0.76	1.44
1:B:25:TYR:C	1:C:58:PRO:O[6_455]	0.76	1.44
1:B:36:ASP:OD2	1:C:38:GLY:CA[6_455]	0.76	1.44
1:B:83:LYS:CG	1:C:149:VAL:N[7_555]	0.76	1.44
1:C:173:ARG:NH2	1:C:279:TYR:O[7_555]	0.76	1.44
1:A:18:LEU:C	1:C:122:SER:O[6_455]	0.77	1.43
1:A:129:LEU:CA	1:D:45:LEU:CA[7_555]	0.77	1.43
1:A:133:PHE:C	1:D:133:PHE:O[7_555]	0.77	1.43
1:A:152:VAL:CG1	1:C:220:VAL:CG2[8_565]	0.77	1.43
1:B:25:TYR:CE2	1:C:14:ARG:CB[6_455]	0.77	1.43
1:B:211:MET:O	1:D:110:ASN:CG[8_565]	0.77	1.43
1:A:19:GLU:CB	1:C:123:PHE:CG[6_455]	0.78	1.42
1:A:105:ARG:CB	1:C:130:GLU:OE2[8_565]	0.78	1.42
1:A:161:PHE:CD1	1:C:134:VAL:CG1[8_565]	0.78	1.42
1:B:115:HIS:CG	1:C:107:PHE:CE2[7_555]	0.78	1.42
1:B:132:LEU:O	1:D:115:HIS:CE1[8_565]	0.78	1.42
1:B:163:THR:C	1:C:159:GLN:C[7_555]	0.78	1.42
1:B:223:ALA:CB	1:D:205:GLY:C[8_565]	0.78	1.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:156:ALA:CB	1:C:245:LYS:C[8_565]	0.79	1.41
1:B:14:ARG:CB	1:C:25:TYR:CE2[6_455]	0.79	1.41
1:B:35:ARG:CZ	1:C:55:ASP:CB[6_455]	0.79	1.41
1:B:67:TRP:CE3	1:C:86:TYR:CD2[7_555]	0.79	1.41
1:B:107:PHE:CE2	1:C:115:HIS:CG[7_555]	0.79	1.41
1:B:141:GLY:CA	1:D:80:GLN:OE1[8_565]	0.79	1.41
1:B:161:PHE:O	1:C:162:PHE:CB[7_555]	0.79	1.41
1:B:168:PHE:C	1:C:160:SER:OG[7_555]	0.79	1.41
1:B:215:LYS:O	1:D:162:PHE:CZ[8_565]	0.79	1.41
1:B:255:ALA:N	1:C:255:ALA:N[6_455]	0.79	1.41
1:A:14:ARG:CB	1:C:119:VAL:C[6_455]	0.80	1.40
1:A:44:ARG:NH2	1:D:32:VAL:CG2[7_555]	0.80	1.40
1:A:133:PHE:O	1:D:133:PHE:CA[7_555]	0.80	1.40
1:A:135:CYS:CB	1:D:132:LEU:CA[7_555]	0.80	1.40
1:A:140:ASN:CG	1:D:263:PHE:C[7_555]	0.80	1.40
1:A:156:ALA:CB	1:C:245:LYS:CA[8_565]	0.80	1.40
1:A:202:LEU:C	1:C:224:PHE:CE2[8_565]	0.80	1.40
1:A:215:LYS:CG	1:D:134:VAL:CA[7_555]	0.80	1.40
1:A:247:TYR:O	1:D:139:ALA:O[7_555]	0.80	1.40
1:B:5:GLN:OE1	1:D:82:GLU:O[8_565]	0.80	1.40
1:B:87:SER:OG	1:C:8:TYR:C[7_555]	0.80	1.40
1:B:105:ARG:C	1:C:114:THR:CB[7_555]	0.80	1.40
1:B:195:LEU:CD1	1:C:164:ASP:O[7_555]	0.80	1.40
1:B:254:PRO:CG	1:C:255:ALA:O[6_455]	0.80	1.40
1:B:263:PHE:CA	1:D:158:THR:CB[8_565]	0.80	1.40
1:C:30:GLY:C	5:A:563:HOH:O[8_655]	0.80	1.40
1:A:57:GLY:N	1:C:101:ALA:O[6_455]	0.81	1.39
1:A:62:LEU:CD2	1:C:222:ARG:NH2[8_565]	0.81	1.39
1:A:83:LYS:CB	1:C:142:ILE:CB[8_565]	0.81	1.39
1:A:124:PRO:CB	1:D:26:GLN:CG[7_555]	0.81	1.39
1:A:133:PHE:O	1:D:133:PHE:C[7_555]	0.81	1.39
1:A:156:ALA:CA	1:C:245:LYS:O[8_565]	0.81	1.39
1:A:219:GLN:CA	1:D:137:GLU:CB[7_555]	0.81	1.39
1:B:35:ARG:NH2	1:C:55:ASP:CG[6_455]	0.81	1.39
1:B:38:GLY:CA	1:C:36:ASP:OD2[6_455]	0.81	1.39
1:B:41:ALA:CB	1:C:56:PRO:CA[6_455]	0.81	1.39
1:B:56:PRO:CD	1:C:41:ALA:N[6_455]	0.81	1.39
1:B:67:TRP:CD2	1:C:86:TYR:CD2[7_555]	0.81	1.39
1:B:84:ALA:O	1:C:192:THR:CG2[7_555]	0.81	1.39
1:B:103:GLN:CA	1:D:58:PRO:C[6_455]	0.81	1.39
1:B:123:PHE:CG	1:D:19:GLU:CB[6_455]	0.81	1.39
1:B:133:PHE:N	1:D:115:HIS:CG[8_565]	0.81	1.39

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:157:LYS:CE	1:C:186:CYS:CA[7_555]	0.81	1.39
1:B:186:CYS:C	1:C:157:LYS:NZ[7_555]	0.81	1.39
1:B:208:HIS:N	1:C:79:GLU:CD[7_555]	0.81	1.39
1:A:16:ASP:OD1	1:C:120:GLU:CB[6_455]	0.82	1.38
1:A:129:LEU:CA	1:D:45:LEU:N[7_555]	0.82	1.38
1:A:140:ASN:ND2	1:D:264:GLY:N[7_555]	0.82	1.38
1:A:203:LYS:CA	1:C:224:PHE:CD1[8_565]	0.82	1.38
1:B:89:VAL:O	1:C:63:ALA:C[7_555]	0.82	1.38
1:B:116:GLU:N	1:C:107:PHE:C[7_555]	0.82	1.38
1:B:159:GLN:O	1:C:163:THR:CA[7_555]	0.82	1.38
1:B:162:PHE:N	1:C:162:PHE:CA[7_555]	0.82	1.38
1:B:192:THR:CG2	1:C:84:ALA:O[7_555]	0.82	1.38
1:B:220:VAL:CG2	1:D:152:VAL:CG1[8_565]	0.82	1.38
1:B:247:TYR:CZ	1:D:196:SER:CA[8_565]	0.82	1.38
1:B:261:LEU:CG	1:D:111:ASP:CB[8_565]	0.82	1.38
1:D:113:PHE:CE1	5:B:536:HOH:O[8_655]	0.82	1.38
1:A:115:HIS:CG	1:C:133:PHE:N[8_565]	0.83	1.37
1:A:129:LEU:C	1:D:45:LEU:CA[7_555]	0.83	1.37
1:A:196:SER:C	1:C:247:TYR:CZ[8_565]	0.83	1.37
1:A:215:LYS:NZ	1:D:213:GLU:O[7_555]	0.83	1.37
1:A:263:PHE:O	1:D:140:ASN:CB[7_555]	0.83	1.37
1:B:124:PRO:CB	1:D:90:THR:CG2[8_565]	0.83	1.37
1:B:129:LEU:C	1:D:115:HIS:O[8_565]	0.83	1.37
1:B:132:LEU:C	1:D:115:HIS:ND1[8_565]	0.83	1.37
1:B:137:GLU:CD	1:D:79:GLU:CB[8_565]	0.83	1.37
1:B:162:PHE:CA	1:C:162:PHE:N[7_555]	0.83	1.37
1:A:19:GLU:CA	1:C:123:PHE:N[6_455]	0.84	1.36
1:A:25:TYR:CA	1:D:125:THR:CG2[7_555]	0.84	1.36
1:A:111:ASP:CB	1:C:261:LEU:CG[8_565]	0.84	1.36
1:A:154:ASP:N	1:C:248:SER:CB[8_565]	0.84	1.36
1:A:198:PRO:N	1:C:238:ILE:CB[8_565]	0.84	1.36
1:B:11:PHE:CA	1:C:19:GLU:CB[6_455]	0.84	1.36
1:B:45:LEU:O	1:D:107:PHE:CA[8_565]	0.84	1.36
1:B:108:ALA:CA	1:C:116:GLU:C[7_555]	0.84	1.36
1:B:126:ASP:N	1:D:105:ARG:CA[8_565]	0.84	1.36
1:B:132:LEU:CD2	1:D:65:ILE:CB[8_565]	0.84	1.36
1:A:59:ALA:N	1:C:103:GLN:CA[6_455]	0.85	1.35
1:A:115:HIS:C	1:C:129:LEU:O[8_565]	0.85	1.35
1:A:125:THR:CA	1:D:25:TYR:O[7_555]	0.85	1.35
1:A:125:THR:CB	1:D:25:TYR:O[7_555]	0.85	1.35
1:A:202:LEU:C	1:C:224:PHE:CD2[8_565]	0.85	1.35
1:A:203:LYS:N	1:C:224:PHE:CG[8_565]	0.85	1.35

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:63:ALA:C	1:C:89:VAL:O[7_555]	0.85	1.35
1:B:103:GLN:CG	1:D:59:ALA:CB[6_455]	0.85	1.35
1:B:224:PHE:CE2	1:D:202:LEU:C[8_565]	0.85	1.35
1:C:206:MET:CB	3:B:302:P6G:O16[6_555]	0.85	1.35
1:A:14:ARG:CZ	1:C:118:TYR:O[6_455]	0.86	1.34
1:A:80:GLN:OE1	1:C:141:GLY:CA[8_565]	0.86	1.34
1:A:125:THR:CG2	1:D:25:TYR:CA[7_555]	0.86	1.34
1:A:165:VAL:N	1:C:140:ASN:ND2[8_565]	0.86	1.34
1:B:14:ARG:CG	1:C:25:TYR:CG[6_455]	0.86	1.34
1:B:56:PRO:CA	1:C:41:ALA:CB[6_455]	0.86	1.34
1:B:248:SER:OG	1:D:153:ALA:C[8_565]	0.86	1.34
1:A:15:ALA:C	1:C:120:GLU:OE2[6_455]	0.87	1.33
1:A:133:PHE:CA	1:D:133:PHE:O[7_555]	0.87	1.33
1:A:198:PRO:N	1:C:238:ILE:CA[8_565]	0.87	1.33
1:B:21:MET:CB	1:C:60:ASN:OD1[6_455]	0.87	1.33
1:B:120:GLU:OE2	1:D:15:ALA:C[6_455]	0.87	1.33
1:B:133:PHE:O	1:D:107:PHE:CZ[8_565]	0.87	1.33
1:B:148:LEU:O	1:C:83:LYS:CB[7_555]	0.87	1.33
1:D:113:PHE:CD1	5:B:519:HOH:O[8_655]	0.87	1.33
1:A:105:ARG:CA	1:C:126:ASP:N[8_565]	0.88	1.32
1:A:115:HIS:NE2	1:C:132:LEU:O[8_565]	0.88	1.32
1:A:205:GLY:C	1:C:223:ALA:CB[8_565]	0.88	1.32
1:B:45:LEU:CD2	1:D:108:ALA:CB[8_565]	0.88	1.32
1:B:57:GLY:CA	1:C:33:VAL:CG1[6_455]	0.88	1.32
1:B:79:GLU:CD	1:C:208:HIS:N[7_555]	0.88	1.32
1:B:117:LEU:CD1	1:C:113:PHE:CB[7_555]	0.88	1.32
1:B:120:GLU:CD	1:D:16:ASP:N[6_455]	0.88	1.32
1:B:123:PHE:N	1:D:19:GLU:C[6_455]	0.88	1.32
1:B:127:PRO:O	1:D:116:GLU:C[8_565]	0.88	1.32
1:D:82:GLU:CG	4:B:303:SO4:O1[8_655]	0.88	1.32
1:A:79:GLU:CA	1:C:137:GLU:CG[8_565]	0.89	1.31
1:A:79:GLU:CB	1:C:137:GLU:CD[8_565]	0.89	1.31
1:A:87:SER:CA	1:C:51:ARG:CZ[8_565]	0.89	1.31
1:A:105:ARG:CD	1:C:125:THR:CA[8_565]	0.89	1.31
1:B:33:VAL:CG2	1:C:58:PRO:N[6_455]	0.89	1.31
1:B:129:LEU:O	1:D:115:HIS:C[8_565]	0.89	1.31
1:B:134:VAL:CG1	1:D:161:PHE:CD1[8_565]	0.89	1.31
1:B:163:THR:CA	1:C:159:GLN:O[7_555]	0.89	1.31
1:B:220:VAL:CG1	1:D:152:VAL:N[8_565]	0.89	1.31
1:B:238:ILE:CA	1:D:198:PRO:N[8_565]	0.89	1.31
1:B:257:PHE:CD2	1:C:20:GLN:OE1[6_455]	0.89	1.31
1:D:86:TYR:CE1	5:B:521:HOH:O[8_655]	0.89	1.31

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:25:TYR:O	1:D:125:THR:CA[7_555]	0.90	1.30
1:A:58:PRO:C	1:C:103:GLN:CA[6_455]	0.90	1.30
1:A:59:ALA:CB	1:C:103:GLN:CD[6_455]	0.90	1.30
1:A:115:HIS:ND1	1:C:132:LEU:C[8_565]	0.90	1.30
1:A:141:GLY:O	1:D:216:SER:O[7_555]	0.90	1.30
1:B:19:GLU:CB	1:C:11:PHE:CA[6_455]	0.90	1.30
1:B:25:TYR:CA	1:C:58:PRO:O[6_455]	0.90	1.30
1:B:41:ALA:CB	1:C:56:PRO:N[6_455]	0.90	1.30
1:B:105:ARG:O	1:C:114:THR:CA[7_555]	0.90	1.30
1:B:119:VAL:C	1:D:14:ARG:CB[6_455]	0.90	1.30
1:B:123:PHE:N	1:D:19:GLU:CA[6_455]	0.90	1.30
1:B:126:ASP:O	1:D:105:ARG:O[8_565]	0.90	1.30
1:B:157:LYS:CE	1:C:186:CYS:C[7_555]	0.90	1.30
1:B:218:GLU:CD	1:D:148:LEU:O[8_565]	0.90	1.30
1:B:224:PHE:CB	1:D:203:LYS:O[8_565]	0.90	1.30
1:B:238:ILE:CB	1:D:198:PRO:N[8_565]	0.90	1.30
1:A:25:TYR:O	1:D:125:THR:CB[7_555]	0.91	1.29
1:A:140:ASN:CB	1:D:263:PHE:O[7_555]	0.91	1.29
1:B:8:TYR:C	1:C:87:SER:CB[7_555]	0.91	1.29
1:B:58:PRO:N	1:C:33:VAL:CG2[6_455]	0.91	1.29
1:B:58:PRO:O	1:C:25:TYR:CA[6_455]	0.91	1.29
1:B:149:VAL:N	1:C:83:LYS:CG[7_555]	0.91	1.29
1:B:163:THR:CA	1:C:159:GLN:C[7_555]	0.91	1.29
1:A:89:VAL:CG1	1:C:48:ARG:C[8_565]	0.92	1.28
1:A:263:PHE:C	1:D:140:ASN:CG[7_555]	0.92	1.28
1:B:6:LEU:CB	1:C:85:CYS:C[7_555]	0.92	1.28
1:B:116:GLU:OE2	1:C:106:GLN:NE2[7_555]	0.92	1.28
1:B:215:LYS:C	1:D:162:PHE:CZ[8_565]	0.92	1.28
1:B:254:PRO:CA	1:C:256:GLY:N[6_455]	0.92	1.28
1:D:13:CYS:CB	5:B:537:HOH:O[6_555]	0.92	1.28
1:A:25:TYR:C	1:D:125:THR:CG2[7_555]	0.93	1.27
1:A:85:CYS:N	1:C:143:PHE:C[8_565]	0.93	1.27
1:A:132:LEU:CA	1:D:135:CYS:CB[7_555]	0.93	1.27
1:A:135:CYS:CB	1:D:132:LEU:N[7_555]	0.93	1.27
1:A:214:ALA:C	1:D:138:GLU:CG[7_555]	0.93	1.27
1:B:109:ASP:CG	1:C:117:LEU:CD2[7_555]	0.93	1.27
1:B:129:LEU:C	1:D:115:HIS:C[8_565]	0.93	1.27
1:B:132:LEU:C	1:D:115:HIS:CG[8_565]	0.93	1.27
1:B:249:PHE:CZ	1:D:204:PRO:O[8_565]	0.93	1.27
1:C:2:SER:N	5:B:574:HOH:O[7_555]	0.93	1.27
1:A:89:VAL:C	1:C:47:GLY:CA[8_565]	0.94	1.26
1:A:112:GLY:O	1:C:29:ILE:C[8_565]	0.94	1.26

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:116:GLU:C	1:C:127:PRO:O[8_565]	0.94	1.26
1:A:129:LEU:N	1:D:45:LEU:N[7_555]	0.94	1.26
1:A:141:GLY:C	1:D:217:LYS:CA[7_555]	0.94	1.26
1:A:158:THR:OG1	1:C:263:PHE:N[8_565]	0.94	1.26
1:A:195:LEU:C	1:C:217:LYS:CD[8_565]	0.94	1.26
1:A:204:PRO:CA	1:C:249:PHE:CD2[8_565]	0.94	1.26
1:B:21:MET:CA	1:C:60:ASN:OD1[6_455]	0.94	1.26
1:B:106:GLN:CA	1:C:114:THR:CG2[7_555]	0.94	1.26
1:B:127:PRO:CD	1:D:104:VAL:CA[8_565]	0.94	1.26
1:B:140:ASN:OD1	1:D:165:VAL:CA[8_565]	0.94	1.26
1:B:142:ILE:CB	1:D:83:LYS:CG[8_565]	0.94	1.26
1:B:142:ILE:CB	1:D:83:LYS:CB[8_565]	0.94	1.26
1:A:18:LEU:C	1:C:122:SER:C[6_455]	0.95	1.25
1:A:45:LEU:N	1:D:129:LEU:CA[7_555]	0.95	1.25
1:A:45:LEU:CB	1:D:129:LEU:C[7_555]	0.95	1.25
1:A:107:PHE:CE1	1:C:133:PHE:O[8_565]	0.95	1.25
1:A:110:ASN:CG	1:C:211:MET:O[8_565]	0.95	1.25
1:A:113:PHE:C	1:C:133:PHE:CZ[8_565]	0.95	1.25
1:B:8:TYR:C	1:C:87:SER:OG[7_555]	0.95	1.25
1:B:12:GLU:CB	1:C:22:VAL:CB[6_455]	0.95	1.25
1:B:46:ASP:C	1:D:106:GLN:O[8_565]	0.95	1.25
1:B:74:LEU:CD1	1:C:112:GLY:C[7_555]	0.95	1.25
1:B:76:ALA:N	1:C:205:GLY:C[7_555]	0.95	1.25
1:B:79:GLU:OE1	1:C:208:HIS:N[7_555]	0.95	1.25
1:B:125:THR:CA	1:D:105:ARG:CD[8_565]	0.95	1.25
1:B:140:ASN:CG	1:D:164:ASP:O[8_565]	0.95	1.25
1:B:245:LYS:O	1:D:156:ALA:CA[8_565]	0.95	1.25
1:B:247:TYR:CZ	1:D:196:SER:C[8_565]	0.95	1.25
1:A:19:GLU:C	1:C:123:PHE:N[6_455]	0.96	1.24
1:A:45:LEU:CA	1:D:129:LEU:C[7_555]	0.96	1.24
1:A:137:GLU:CB	1:D:219:GLN:CA[7_555]	0.96	1.24
1:A:137:GLU:CD	1:D:219:GLN:O[7_555]	0.96	1.24
1:A:148:LEU:O	1:C:218:GLU:CG[8_565]	0.96	1.24
1:A:153:ALA:C	1:C:248:SER:OG[8_565]	0.96	1.24
1:A:195:LEU:CA	1:C:217:LYS:CG[8_565]	0.96	1.24
1:A:263:PHE:CD1	1:D:143:PHE:CE2[7_555]	0.96	1.24
1:B:45:LEU:CB	1:D:108:ALA:N[8_565]	0.96	1.24
1:B:56:PRO:N	1:C:41:ALA:CB[6_455]	0.96	1.24
1:B:87:SER:CB	1:C:8:TYR:C[7_555]	0.96	1.24
1:B:256:GLY:N	1:C:254:PRO:CA[6_455]	0.96	1.24
1:A:104:VAL:O	1:C:125:THR:O[8_565]	0.97	1.23
1:A:115:HIS:C	1:C:129:LEU:C[8_565]	0.97	1.23

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:142:ILE:CD1	1:D:218:GLU:CA[7_555]	0.97	1.23
1:A:143:PHE:CE2	1:D:263:PHE:CD1[7_555]	0.97	1.23
1:B:20:GLN:O	1:C:60:ASN:C[6_455]	0.97	1.23
1:B:75:ALA:C	1:C:205:GLY:O[7_555]	0.97	1.23
1:B:112:GLY:C	1:C:74:LEU:CD1[7_555]	0.97	1.23
1:B:132:LEU:O	1:D:115:HIS:NE2[8_565]	0.97	1.23
1:B:143:PHE:C	1:D:85:CYS:N[8_565]	0.97	1.23
1:B:224:PHE:CG	1:D:203:LYS:N[8_565]	0.97	1.23
1:B:245:LYS:CA	1:D:156:ALA:CB[8_565]	0.97	1.23
1:B:247:TYR:OH	1:D:196:SER:CB[8_565]	0.97	1.23
1:B:254:PRO:C	1:C:255:ALA:N[6_455]	0.97	1.23
1:B:262:GLY:N	1:D:111:ASP:OD2[8_565]	0.97	1.23
1:B:264:GLY:CA	1:D:159:GLN:CA[8_565]	0.97	1.23
1:D:280:ASP:CB	1:D:285:TRP:CG[7_645]	0.97	1.23
1:A:14:ARG:CB	1:C:119:VAL:O[6_455]	0.98	1.22
1:A:16:ASP:N	1:C:120:GLU:CG[6_455]	0.98	1.22
1:A:85:CYS:C	1:C:145:LEU:N[8_565]	0.98	1.22
1:A:134:VAL:CA	1:D:215:LYS:CG[7_555]	0.98	1.22
1:A:140:ASN:OD1	1:D:263:PHE:CA[7_555]	0.98	1.22
1:B:51:ARG:CZ	1:D:87:SER:CA[8_565]	0.98	1.22
1:B:83:LYS:N	1:C:148:LEU:CB[7_555]	0.98	1.22
1:B:89:VAL:N	1:C:64:ALA:N[7_555]	0.98	1.22
1:B:133:PHE:CE1	1:D:113:PHE:O[8_565]	0.98	1.22
1:B:140:ASN:CB	1:D:164:ASP:O[8_565]	0.98	1.22
1:B:150:VAL:CG1	1:C:80:GLN:N[7_555]	0.98	1.22
1:B:222:ARG:N	1:D:206:MET:O[8_565]	0.98	1.22
1:B:263:PHE:CE2	1:D:195:LEU:CD1[8_565]	0.98	1.22
1:C:182:PHE:CE1	1:C:278:PHE:CB[7_555]	0.98	1.22
1:A:18:LEU:N	1:C:122:SER:N[6_455]	0.99	1.21
1:A:105:ARG:O	1:C:126:ASP:O[8_565]	0.99	1.21
1:A:110:ASN:CA	1:C:212:LEU:CA[8_565]	0.99	1.21
1:A:161:PHE:CZ	1:C:134:VAL:CA[8_565]	0.99	1.21
1:A:206:MET:O	1:C:222:ARG:N[8_565]	0.99	1.21
1:B:47:GLY:CA	1:D:89:VAL:C[8_565]	0.99	1.21
1:B:67:TRP:N	1:C:108:ALA:O[7_555]	0.99	1.21
1:B:116:GLU:C	1:C:108:ALA:CA[7_555]	0.99	1.21
1:B:238:ILE:CG2	1:D:197:ALA:O[8_565]	0.99	1.21
1:B:255:ALA:C	1:C:254:PRO:CG[6_455]	0.99	1.21
1:A:59:ALA:CB	1:C:103:GLN:CG[6_455]	1.00	1.20
1:A:129:LEU:C	1:D:45:LEU:CB[7_555]	1.00	1.20
1:A:164:ASP:O	1:C:140:ASN:CB[8_565]	1.00	1.20
1:B:25:TYR:C	1:C:58:PRO:C[6_455]	1.00	1.20

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:64:ALA:N	1:C:89:VAL:N[7_555]	1.00	1.20
1:B:122:SER:N	1:D:17:VAL:C[6_455]	1.00	1.20
1:B:123:PHE:CA	1:D:19:GLU:CA[6_455]	1.00	1.20
1:B:247:TYR:CA	1:D:155:ARG:CA[8_565]	1.00	1.20
1:B:254:PRO:CG	1:C:255:ALA:C[6_455]	1.00	1.20
1:A:45:LEU:N	1:D:129:LEU:N[7_555]	1.01	1.19
1:A:86:TYR:N	1:C:144:GLY:O[8_565]	1.01	1.19
1:A:133:PHE:C	1:D:133:PHE:C[7_555]	1.01	1.19
1:A:139:ALA:O	1:D:247:TYR:O[7_555]	1.01	1.19
1:A:196:SER:CA	1:C:247:TYR:CZ[8_565]	1.01	1.19
1:B:29:ILE:C	1:D:112:GLY:O[8_565]	1.01	1.19
1:B:118:TYR:C	1:D:14:ARG:NH2[6_455]	1.01	1.19
1:B:133:PHE:N	1:D:115:HIS:CD2[8_565]	1.01	1.19
1:B:146:GLY:O	1:C:85:CYS:SG[7_555]	1.01	1.19
1:A:84:ALA:N	1:C:143:PHE:CA[8_565]	1.02	1.18
1:A:152:VAL:N	1:C:220:VAL:CG1[8_565]	1.02	1.18
1:A:159:GLN:CA	1:C:264:GLY:CA[8_565]	1.02	1.18
1:B:33:VAL:CG1	1:C:57:GLY:CA[6_455]	1.02	1.18
1:B:103:GLN:C	1:D:58:PRO:C[6_455]	1.02	1.18
1:B:117:LEU:CD2	1:C:109:ASP:CG[7_555]	1.02	1.18
1:B:124:PRO:N	1:D:90:THR:OG1[8_565]	1.02	1.18
1:B:129:LEU:N	1:D:116:GLU:CB[8_565]	1.02	1.18
1:B:145:LEU:N	1:D:85:CYS:C[8_565]	1.02	1.18
1:B:163:THR:C	1:C:159:GLN:CA[7_555]	1.02	1.18
1:B:212:LEU:CA	1:D:110:ASN:CA[8_565]	1.02	1.18
1:B:255:ALA:N	1:C:254:PRO:C[6_455]	1.02	1.18
1:C:17:VAL:O	5:B:558:HOH:O[6_555]	1.02	1.18
1:A:14:ARG:NH2	1:C:118:TYR:CA[6_455]	1.03	1.17
1:A:18:LEU:O	1:C:122:SER:O[6_455]	1.03	1.17
1:A:44:ARG:NH2	1:D:32:VAL:CB[7_555]	1.03	1.17
1:A:110:ASN:CG	1:C:211:MET:C[8_565]	1.03	1.17
1:A:138:GLU:CG	1:D:214:ALA:C[7_555]	1.03	1.17
1:A:155:ARG:CA	1:C:247:TYR:CA[8_565]	1.03	1.17
1:A:158:THR:CG2	1:C:263:PHE:CA[8_565]	1.03	1.17
1:A:196:SER:CA	1:C:217:LYS:NZ[8_565]	1.03	1.17
1:A:203:LYS:O	1:C:224:PHE:CB[8_565]	1.03	1.17
1:B:6:LEU:CD1	1:C:86:TYR:CA[7_555]	1.03	1.17
1:B:21:MET:CE	1:C:17:VAL:CG2[6_455]	1.03	1.17
1:B:80:GLN:N	1:C:150:VAL:CG1[7_555]	1.03	1.17
1:B:85:CYS:C	1:C:6:LEU:CB[7_555]	1.03	1.17
1:B:101:ALA:O	1:D:57:GLY:N[6_455]	1.03	1.17
1:B:108:ALA:O	1:C:67:TRP:N[7_555]	1.03	1.17

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:111:ASP:N	1:C:69:VAL:CG1[7_555]	1.03	1.17
1:B:122:SER:N	1:D:18:LEU:N[6_455]	1.03	1.17
1:B:143:PHE:O	1:D:84:ALA:C[8_565]	1.03	1.17
1:B:143:PHE:O	1:D:84:ALA:O[8_565]	1.03	1.17
1:B:224:PHE:CE2	1:D:202:LEU:O[8_565]	1.03	1.17
1:B:246:VAL:CG1	1:D:154:ASP:O[8_565]	1.03	1.17
1:B:263:PHE:N	1:D:158:THR:OG1[8_565]	1.03	1.17
1:C:20:GLN:CB	5:B:511:HOH:O[6_555]	1.03	1.17
1:A:14:ARG:NH1	1:C:118:TYR:O[6_455]	1.04	1.16
1:A:19:GLU:CA	1:C:123:PHE:CA[6_455]	1.04	1.16
1:A:31:ALA:CB	1:D:126:ASP:N[7_555]	1.04	1.16
1:A:81:VAL:CG2	1:C:138:GLU:CD[8_565]	1.04	1.16
1:A:87:SER:CB	1:C:51:ARG:NE[8_565]	1.04	1.16
1:A:116:GLU:CG	1:C:129:LEU:N[8_565]	1.04	1.16
1:A:140:ASN:O	1:D:263:PHE:CD2[7_555]	1.04	1.16
1:A:204:PRO:O	1:C:249:PHE:CZ[8_565]	1.04	1.16
1:B:16:ASP:CA	1:C:11:PHE:CE2[6_455]	1.04	1.16
1:B:22:VAL:CB	1:C:12:GLU:CB[6_455]	1.04	1.16
1:B:55:ASP:CB	1:C:35:ARG:NH1[6_455]	1.04	1.16
1:B:58:PRO:C	1:C:25:TYR:C[6_455]	1.04	1.16
1:B:83:LYS:CD	1:C:149:VAL:CA[7_555]	1.04	1.16
1:B:148:LEU:CB	1:C:83:LYS:N[7_555]	1.04	1.16
1:B:160:SER:OG	1:C:168:PHE:C[7_555]	1.04	1.16
1:B:192:THR:O	1:C:83:LYS:C[7_555]	1.04	1.16
1:B:249:PHE:CZ	1:D:204:PRO:C[8_565]	1.04	1.16
1:A:59:ALA:N	1:C:103:GLN:CB[6_455]	1.05	1.15
1:A:79:GLU:CA	1:C:137:GLU:CB[8_565]	1.05	1.15
1:A:81:VAL:CG2	1:C:138:GLU:OE1[8_565]	1.05	1.15
1:A:84:ALA:C	1:C:143:PHE:O[8_565]	1.05	1.15
1:A:116:GLU:CB	1:C:129:LEU:N[8_565]	1.05	1.15
1:A:132:LEU:N	1:D:135:CYS:CB[7_555]	1.05	1.15
1:B:20:GLN:OE1	1:C:257:PHE:CE2[6_455]	1.05	1.15
1:B:86:TYR:CA	1:C:6:LEU:CD1[7_555]	1.05	1.15
1:B:120:GLU:CB	1:D:16:ASP:OD1[6_455]	1.05	1.15
1:B:157:LYS:NZ	1:C:187:ASN:N[7_555]	1.05	1.15
1:B:205:GLY:C	1:C:76:ALA:N[7_555]	1.05	1.15
1:B:211:MET:C	1:D:110:ASN:CG[8_565]	1.05	1.15
1:A:16:ASP:CA	1:C:120:GLU:CG[6_455]	1.06	1.14
1:A:89:VAL:CG1	1:C:48:ARG:O[8_565]	1.06	1.14
1:A:204:PRO:O	1:C:249:PHE:CE1[8_565]	1.06	1.14
1:A:263:PHE:CD1	1:D:143:PHE:CZ[7_555]	1.06	1.14
1:A:264:GLY:N	1:D:140:ASN:CG[7_555]	1.06	1.14

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:55:ASP:N	1:C:18:LEU:CD2[6_455]	1.06	1.14
1:B:83:LYS:CB	1:C:148:LEU:C[7_555]	1.06	1.14
1:B:119:VAL:O	1:D:14:ARG:CB[6_455]	1.06	1.14
1:B:125:THR:O	1:D:104:VAL:O[8_565]	1.06	1.14
1:B:132:LEU:CD1	1:D:114:THR:O[8_565]	1.06	1.14
1:B:137:GLU:CB	1:D:79:GLU:CA[8_565]	1.06	1.14
1:B:158:THR:C	1:C:167:GLY:N[7_555]	1.06	1.14
1:B:223:ALA:CA	1:D:205:GLY:O[8_565]	1.06	1.14
1:A:15:ALA:CA	1:C:120:GLU:OE2[6_455]	1.07	1.13
1:A:17:VAL:C	1:C:122:SER:N[6_455]	1.07	1.13
1:A:61:ARG:NE	1:C:26:GLN:O[8_565]	1.07	1.13
1:A:165:VAL:CA	1:C:140:ASN:OD1[8_565]	1.07	1.13
1:A:205:GLY:O	1:C:223:ALA:CA[8_565]	1.07	1.13
1:A:220:VAL:N	1:D:137:GLU:CG[7_555]	1.07	1.13
1:B:23:VAL:O	1:C:59:ALA:CB[6_455]	1.07	1.13
1:B:29:ILE:CG2	1:D:112:GLY:CA[8_565]	1.07	1.13
1:B:61:ARG:O	1:C:19:GLU:O[6_455]	1.07	1.13
1:B:83:LYS:CG	1:C:148:LEU:C[7_555]	1.07	1.13
1:B:87:SER:OG	1:C:9:LEU:N[7_555]	1.07	1.13
1:B:89:VAL:C	1:C:63:ALA:C[7_555]	1.07	1.13
1:B:114:THR:CB	1:C:105:ARG:O[7_555]	1.07	1.13
1:B:122:SER:C	1:D:18:LEU:C[6_455]	1.07	1.13
1:B:129:LEU:CD2	1:D:106:GLN:CG[8_565]	1.07	1.13
1:B:133:PHE:O	1:D:107:PHE:CE1[8_565]	1.07	1.13
1:B:149:VAL:CA	1:C:83:LYS:CD[7_555]	1.07	1.13
1:B:162:PHE:CB	1:C:161:PHE:C[7_555]	1.07	1.13
1:B:167:GLY:CA	1:C:158:THR:CA[7_555]	1.07	1.13
1:B:212:LEU:CB	1:D:110:ASN:N[8_565]	1.07	1.13
1:A:86:TYR:N	1:C:144:GLY:C[8_565]	1.08	1.12
1:A:106:GLN:O	1:C:46:ASP:C[8_565]	1.08	1.12
1:A:148:LEU:O	1:C:218:GLU:CD[8_565]	1.08	1.12
1:A:155:ARG:NH2	1:C:240:GLN:NE2[8_565]	1.08	1.12
1:A:156:ALA:CA	1:C:245:LYS:C[8_565]	1.08	1.12
1:A:195:LEU:CG	1:C:263:PHE:CD2[8_565]	1.08	1.12
1:A:198:PRO:CD	1:C:238:ILE:CA[8_565]	1.08	1.12
1:B:20:GLN:OE1	1:C:257:PHE:CD2[6_455]	1.08	1.12
1:B:59:ALA:CB	1:C:23:VAL:O[6_455]	1.08	1.12
1:B:112:GLY:CA	1:C:74:LEU:CD1[7_555]	1.08	1.12
1:B:113:PHE:CZ	1:C:78:ALA:N[7_555]	1.08	1.12
1:B:122:SER:O	1:D:18:LEU:O[6_455]	1.08	1.12
1:B:141:GLY:N	1:D:80:GLN:OE1[8_565]	1.08	1.12
1:B:159:GLN:C	1:C:163:THR:CA[7_555]	1.08	1.12

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:167:GLY:O	1:C:157:LYS:C[7_555]	1.08	1.12
1:B:234:VAL:CA	1:D:203:LYS:NZ[8_565]	1.08	1.12
1:B:249:PHE:CG	1:D:204:PRO:CG[8_565]	1.08	1.12
1:B:254:PRO:CB	1:C:255:ALA:C[6_455]	1.08	1.12
1:B:264:GLY:N	1:D:159:GLN:N[8_565]	1.08	1.12
1:A:58:PRO:C	1:C:103:GLN:C[6_455]	1.09	1.11
1:A:117:LEU:O	1:C:127:PRO:CA[8_565]	1.09	1.11
1:B:12:GLU:CA	1:C:22:VAL:CG2[6_455]	1.09	1.11
1:B:47:GLY:CA	1:D:89:VAL:O[8_565]	1.09	1.11
1:B:63:ALA:C	1:C:89:VAL:C[7_555]	1.09	1.11
1:B:127:PRO:O	1:D:116:GLU:O[8_565]	1.09	1.11
1:B:149:VAL:CG1	1:C:83:LYS:NZ[7_555]	1.09	1.11
1:B:158:THR:N	1:C:167:GLY:C[7_555]	1.09	1.11
1:B:186:CYS:CA	1:C:157:LYS:NZ[7_555]	1.09	1.11
1:B:217:LYS:CD	1:D:195:LEU:C[8_565]	1.09	1.11
1:B:218:GLU:CA	1:D:150:VAL:N[8_565]	1.09	1.11
1:B:223:ALA:CA	1:D:205:GLY:C[8_565]	1.09	1.11
1:B:247:TYR:CE1	1:D:196:SER:CA[8_565]	1.09	1.11
1:C:105:ARG:N	5:B:563:HOH:O[7_555]	1.09	1.11
1:C:285:TRP:CZ2	5:A:566:HOH:O[8_655]	1.09	1.11
1:A:83:LYS:CG	1:C:142:ILE:CB[8_565]	1.10	1.10
1:A:110:ASN:OD1	1:C:211:MET:O[8_565]	1.10	1.10
1:A:126:ASP:CB	1:D:32:VAL:N[7_555]	1.10	1.10
1:A:143:PHE:CG	1:D:215:LYS:O[7_555]	1.10	1.10
1:A:150:VAL:N	1:C:218:GLU:CA[8_565]	1.10	1.10
1:B:19:GLU:CG	1:C:10:ILE:C[6_455]	1.10	1.10
1:B:25:TYR:CD1	1:C:14:ARG:CG[6_455]	1.10	1.10
1:B:48:ARG:O	1:D:89:VAL:CG1[8_565]	1.10	1.10
1:B:55:ASP:CG	1:C:35:ARG:NH1[6_455]	1.10	1.10
1:B:67:TRP:CE3	1:C:86:TYR:CG[7_555]	1.10	1.10
1:B:69:VAL:CB	1:C:110:ASN:C[7_555]	1.10	1.10
1:B:78:ALA:CB	1:C:113:PHE:CD1[7_555]	1.10	1.10
1:B:85:CYS:O	1:C:6:LEU:CA[7_555]	1.10	1.10
1:B:86:TYR:CD2	1:C:67:TRP:CE3[7_555]	1.10	1.10
1:B:105:ARG:O	1:C:114:THR:CB[7_555]	1.10	1.10
1:B:107:PHE:CZ	1:C:115:HIS:CG[7_555]	1.10	1.10
1:B:113:PHE:CD1	1:C:78:ALA:CB[7_555]	1.10	1.10
1:B:143:PHE:N	1:D:83:LYS:C[8_565]	1.10	1.10
1:B:143:PHE:CA	1:D:84:ALA:N[8_565]	1.10	1.10
1:B:161:PHE:C	1:C:162:PHE:CB[7_555]	1.10	1.10
1:B:265:GLY:O	1:D:160:SER:OG[8_565]	1.10	1.10
1:A:19:GLU:N	1:C:122:SER:C[6_455]	1.11	1.09

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:88:VAL:CA	1:C:46:ASP:CG[8_565]	1.11	1.09
1:A:90:THR:CB	1:C:124:PRO:CA[8_565]	1.11	1.09
1:A:106:GLN:C	1:C:46:ASP:CA[8_565]	1.11	1.09
1:A:138:GLU:CD	1:D:214:ALA:C[7_555]	1.11	1.09
1:A:154:ASP:N	1:C:248:SER:OG[8_565]	1.11	1.09
1:A:196:SER:C	1:C:247:TYR:CE1[8_565]	1.11	1.09
1:A:219:GLN:C	1:D:137:GLU:CB[7_555]	1.11	1.09
1:A:219:GLN:CB	1:D:137:GLU:N[7_555]	1.11	1.09
1:B:25:TYR:CD2	1:C:14:ARG:CB[6_455]	1.11	1.09
1:B:83:LYS:CA	1:C:148:LEU:N[7_555]	1.11	1.09
1:B:262:GLY:C	1:D:158:THR:OG1[8_565]	1.11	1.09
1:D:82:GLU:CD	4:B:303:SO4:O4[8_655]	1.11	1.09
1:A:82:GLU:O	1:C:5:GLN:OE1[8_565]	1.12	1.08
1:A:108:ALA:O	1:C:45:LEU:CD1[8_565]	1.12	1.08
1:A:132:LEU:CD1	1:D:46:ASP:OD1[7_555]	1.12	1.08
1:A:136:GLY:O	1:D:216:SER:OG[7_555]	1.12	1.08
1:A:150:VAL:CG1	1:C:218:GLU:C[8_565]	1.12	1.08
1:A:164:ASP:O	1:C:140:ASN:CG[8_565]	1.12	1.08
1:B:10:ILE:C	1:C:19:GLU:CG[6_455]	1.12	1.08
1:B:56:PRO:N	1:C:41:ALA:CA[6_455]	1.12	1.08
1:B:75:ALA:C	1:C:205:GLY:C[7_555]	1.12	1.08
1:B:78:ALA:N	1:C:113:PHE:CZ[7_555]	1.12	1.08
1:B:159:GLN:CA	1:C:163:THR:C[7_555]	1.12	1.08
1:B:208:HIS:N	1:C:79:GLU:OE1[7_555]	1.12	1.08
1:B:255:ALA:C	1:C:254:PRO:CB[6_455]	1.12	1.08
1:A:65:ILE:CG1	1:C:132:LEU:CD2[8_565]	1.13	1.07
1:A:113:PHE:O	1:C:133:PHE:CE1[8_565]	1.13	1.07
1:A:125:THR:CB	1:D:25:TYR:C[7_555]	1.13	1.07
1:A:138:GLU:OE2	1:D:214:ALA:CA[7_555]	1.13	1.07
1:A:158:THR:OG1	1:C:262:GLY:C[8_565]	1.13	1.07
1:A:196:SER:O	1:C:247:TYR:CE2[8_565]	1.13	1.07
1:A:202:LEU:O	1:C:224:PHE:CZ[8_565]	1.13	1.07
1:A:217:LYS:N	1:D:142:ILE:N[7_555]	1.13	1.07
1:B:8:TYR:O	1:C:87:SER:CB[7_555]	1.13	1.07
1:B:11:PHE:CE2	1:C:16:ASP:CA[6_455]	1.13	1.07
1:B:19:GLU:O	1:C:61:ARG:O[6_455]	1.13	1.07
1:B:60:ASN:C	1:C:20:GLN:O[6_455]	1.13	1.07
1:B:69:VAL:CG1	1:C:111:ASP:N[7_555]	1.13	1.07
1:B:122:SER:C	1:D:19:GLU:N[6_455]	1.13	1.07
1:B:123:PHE:CB	1:D:19:GLU:CB[6_455]	1.13	1.07
1:B:134:VAL:O	1:D:86:TYR:CD2[8_565]	1.13	1.07
1:B:148:LEU:N	1:C:83:LYS:CA[7_555]	1.13	1.07

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:158:THR:CA	1:C:167:GLY:CA[7_555]	1.13	1.07
1:B:167:GLY:N	1:C:158:THR:C[7_555]	1.13	1.07
1:B:212:LEU:CB	1:D:110:ASN:CA[8_565]	1.13	1.07
1:B:248:SER:CB	1:D:153:ALA:C[8_565]	1.13	1.07
1:B:263:PHE:CA	1:D:158:THR:CG2[8_565]	1.13	1.07
1:A:19:GLU:CB	1:C:123:PHE:CB[6_455]	1.14	1.06
1:A:83:LYS:C	1:C:143:PHE:N[8_565]	1.14	1.06
1:A:90:THR:CG2	1:C:124:PRO:CA[8_565]	1.14	1.06
1:A:152:VAL:CG2	1:C:247:TYR:O[8_565]	1.14	1.06
1:A:157:LYS:CB	1:C:246:VAL:CG2[8_565]	1.14	1.06
1:A:263:PHE:C	1:D:140:ASN:CB[7_555]	1.14	1.06
1:B:6:LEU:CA	1:C:85:CYS:O[7_555]	1.14	1.06
1:B:77:ILE:CD1	1:C:111:ASP:CG[7_555]	1.14	1.06
1:B:86:TYR:CG	1:C:67:TRP:CE3[7_555]	1.14	1.06
1:B:110:ASN:OD1	1:C:68:ASN:O[7_555]	1.14	1.06
1:B:119:VAL:N	1:D:14:ARG:CZ[6_455]	1.14	1.06
1:B:148:LEU:C	1:C:83:LYS:CG[7_555]	1.14	1.06
1:B:246:VAL:CG2	1:D:157:LYS:CB[8_565]	1.14	1.06
1:A:195:LEU:CD1	1:C:263:PHE:CE2[8_565]	1.15	1.05
1:B:15:ALA:CA	1:C:52:ILE:CG2[6_455]	1.15	1.05
1:B:19:GLU:N	1:C:11:PHE:CB[6_455]	1.15	1.05
1:B:129:LEU:N	1:D:116:GLU:CG[8_565]	1.15	1.05
1:B:131:SER:C	1:D:67:TRP:CD1[8_565]	1.15	1.05
1:B:140:ASN:ND2	1:D:165:VAL:N[8_565]	1.15	1.05
1:B:234:VAL:CB	1:D:203:LYS:NZ[8_565]	1.15	1.05
1:B:249:PHE:CE2	1:D:204:PRO:CA[8_565]	1.15	1.05
1:B:261:LEU:O	1:D:111:ASP:OD1[8_565]	1.15	1.05
1:B:265:GLY:C	1:D:160:SER:OG[8_565]	1.15	1.05
1:A:14:ARG:NH2	1:C:118:TYR:C[6_455]	1.16	1.04
1:A:84:ALA:CB	1:C:143:PHE:CG[8_565]	1.16	1.04
1:A:107:PHE:CE1	1:C:133:PHE:C[8_565]	1.16	1.04
1:A:111:ASP:CA	1:C:261:LEU:CD1[8_565]	1.16	1.04
1:A:141:GLY:CA	1:D:217:LYS:CA[7_555]	1.16	1.04
1:A:160:SER:CB	1:C:265:GLY:C[8_565]	1.16	1.04
1:A:196:SER:CB	1:C:247:TYR:OH[8_565]	1.16	1.04
1:A:203:LYS:N	1:C:224:PHE:CD2[8_565]	1.16	1.04
1:A:204:PRO:CG	1:C:249:PHE:CB[8_565]	1.16	1.04
1:A:205:GLY:O	1:C:223:ALA:CB[8_565]	1.16	1.04
1:A:216:SER:O	1:D:141:GLY:O[7_555]	1.16	1.04
1:B:9:LEU:CD1	1:C:82:GLU:OE1[7_555]	1.16	1.04
1:B:11:PHE:CB	1:C:19:GLU:N[6_455]	1.16	1.04
1:B:46:ASP:OD2	1:D:88:VAL:CA[8_565]	1.16	1.04

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:83:LYS:CD	1:C:149:VAL:CB[7_555]	1.16	1.04
1:B:89:VAL:N	1:C:64:ALA:CA[7_555]	1.16	1.04
1:B:107:PHE:CB	1:C:65:ILE:O[7_555]	1.16	1.04
1:B:120:GLU:CG	1:D:16:ASP:N[6_455]	1.16	1.04
1:B:120:GLU:CG	1:D:16:ASP:CA[6_455]	1.16	1.04
1:B:137:GLU:CG	1:D:79:GLU:CB[8_565]	1.16	1.04
1:B:157:LYS:C	1:C:168:PHE:N[7_555]	1.16	1.04
1:B:205:GLY:O	1:C:75:ALA:C[7_555]	1.16	1.04
1:B:238:ILE:CB	1:D:198:PRO:CA[8_565]	1.16	1.04
1:B:261:LEU:CD1	1:D:111:ASP:CA[8_565]	1.16	1.04
1:C:173:ARG:CB	1:C:278:PHE:CD1[7_555]	1.16	1.04
1:A:81:VAL:C	1:C:136:GLY:O[8_565]	1.17	1.03
1:A:115:HIS:O	1:C:129:LEU:O[8_565]	1.17	1.03
1:A:159:GLN:N	1:C:264:GLY:N[8_565]	1.17	1.03
1:A:162:PHE:CE2	1:C:215:LYS:C[8_565]	1.17	1.03
1:A:205:GLY:C	1:C:223:ALA:CA[8_565]	1.17	1.03
1:A:213:GLU:O	1:D:215:LYS:NZ[7_555]	1.17	1.03
1:A:215:LYS:O	1:D:143:PHE:CB[7_555]	1.17	1.03
1:B:35:ARG:NH2	1:C:55:ASP:CB[6_455]	1.17	1.03
1:B:83:LYS:CE	1:C:149:VAL:CB[7_555]	1.17	1.03
1:B:84:ALA:CB	1:C:193:VAL:CG2[7_555]	1.17	1.03
1:B:103:GLN:CD	1:D:59:ALA:CB[6_455]	1.17	1.03
1:B:106:GLN:NE2	1:C:106:GLN:CD[7_555]	1.17	1.03
1:B:138:GLU:O	1:D:80:GLN:CG[8_565]	1.17	1.03
1:B:140:ASN:CG	1:D:164:ASP:C[8_565]	1.17	1.03
1:B:143:PHE:CG	1:D:84:ALA:CB[8_565]	1.17	1.03
1:B:151:ILE:O	1:C:76:ALA:CB[7_555]	1.17	1.03
1:B:257:PHE:CE2	1:C:20:GLN:OE1[6_455]	1.17	1.03
1:A:43:VAL:CG1	1:D:127:PRO:CD[7_555]	1.18	1.02
1:A:65:ILE:CB	1:C:132:LEU:CD2[8_565]	1.18	1.02
1:A:87:SER:CB	1:C:51:ARG:CD[8_565]	1.18	1.02
1:A:89:VAL:O	1:C:47:GLY:CA[8_565]	1.18	1.02
1:A:140:ASN:ND2	1:D:264:GLY:CA[7_555]	1.18	1.02
1:A:142:ILE:N	1:D:217:LYS:N[7_555]	1.18	1.02
1:A:154:ASP:O	1:C:246:VAL:CG1[8_565]	1.18	1.02
1:A:157:LYS:O	1:C:265:GLY:N[8_565]	1.18	1.02
1:A:206:MET:CG	1:C:225:ALA:N[8_565]	1.18	1.02
1:B:9:LEU:N	1:C:87:SER:OG[7_555]	1.18	1.02
1:B:14:ARG:CG	1:C:25:TYR:CD2[6_455]	1.18	1.02
1:B:58:PRO:CD	1:C:33:VAL:CG2[6_455]	1.18	1.02
1:B:78:ALA:CA	1:C:113:PHE:CD1[7_555]	1.18	1.02
1:B:83:LYS:C	1:C:192:THR:O[7_555]	1.18	1.02

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:117:LEU:CD2	1:C:109:ASP:OD2[7_555]	1.18	1.02
1:B:136:GLY:CA	1:D:82:GLU:CA[8_565]	1.18	1.02
1:B:148:LEU:CB	1:C:82:GLU:C[7_555]	1.18	1.02
1:B:192:THR:O	1:C:83:LYS:O[7_555]	1.18	1.02
1:B:223:ALA:CB	1:D:205:GLY:O[8_565]	1.18	1.02
1:B:238:ILE:CA	1:D:198:PRO:CD[8_565]	1.18	1.02
1:B:247:TYR:CE2	1:D:196:SER:O[8_565]	1.18	1.02
1:C:66:GLY:N	5:B:562:HOH:O[7_555]	1.18	1.02
1:D:107:PHE:CG	5:B:561:HOH:O[8_655]	1.18	1.02
1:A:14:ARG:NE	1:C:118:TYR:C[6_455]	1.19	1.01
1:A:31:ALA:CB	1:D:126:ASP:CA[7_555]	1.19	1.01
1:A:134:VAL:CB	1:D:215:LYS:CG[7_555]	1.19	1.01
1:A:137:GLU:N	1:D:219:GLN:CB[7_555]	1.19	1.01
1:A:204:PRO:C	1:C:249:PHE:CE2[8_565]	1.19	1.01
1:A:217:LYS:CA	1:D:142:ILE:N[7_555]	1.19	1.01
1:B:14:ARG:CB	1:C:25:TYR:CD2[6_455]	1.19	1.01
1:B:45:LEU:CA	1:D:108:ALA:N[8_565]	1.19	1.01
1:B:46:ASP:OD2	1:D:88:VAL:N[8_565]	1.19	1.01
1:B:56:PRO:CD	1:C:41:ALA:CA[6_455]	1.19	1.01
1:B:76:ALA:CB	1:C:151:ILE:O[7_555]	1.19	1.01
1:B:103:GLN:CB	1:D:59:ALA:N[6_455]	1.19	1.01
1:B:110:ASN:C	1:C:69:VAL:CB[7_555]	1.19	1.01
1:B:115:HIS:ND1	1:C:107:PHE:CE2[7_555]	1.19	1.01
1:B:122:SER:CA	1:D:17:VAL:O[6_455]	1.19	1.01
1:B:127:PRO:CA	1:D:117:LEU:O[8_565]	1.19	1.01
1:B:157:LYS:C	1:C:167:GLY:O[7_555]	1.19	1.01
1:B:167:GLY:C	1:C:158:THR:N[7_555]	1.19	1.01
1:B:193:VAL:CG2	1:C:84:ALA:CB[7_555]	1.19	1.01
1:B:249:PHE:CG	1:D:204:PRO:CB[8_565]	1.19	1.01
1:A:79:GLU:CB	1:C:137:GLU:CG[8_565]	1.20	1.00
1:A:110:ASN:N	1:C:212:LEU:CA[8_565]	1.20	1.00
1:A:140:ASN:CG	1:D:264:GLY:N[7_555]	1.20	1.00
1:A:166:LEU:CD2	1:C:215:LYS:NZ[8_565]	1.20	1.00
1:A:206:MET:C	1:C:222:ARG:N[8_565]	1.20	1.00
1:A:213:GLU:C	1:D:138:GLU:OE2[7_555]	1.20	1.00
1:A:247:TYR:O	1:D:139:ALA:C[7_555]	1.20	1.00
1:B:6:LEU:CG	1:C:85:CYS:C[7_555]	1.20	1.00
1:B:25:TYR:CD2	1:C:14:ARG:CA[6_455]	1.20	1.00
1:B:37:GLU:OE1	1:D:37:GLU:CG[6_455]	1.20	1.00
1:B:46:ASP:CA	1:D:106:GLN:C[8_565]	1.20	1.00
1:B:83:LYS:O	1:C:192:THR:O[7_555]	1.20	1.00
1:B:157:LYS:NZ	1:C:186:CYS:O[7_555]	1.20	1.00

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:212:LEU:CA	1:D:110:ASN:N[8_565]	1.20	1.00
1:B:245:LYS:C	1:D:156:ALA:CA[8_565]	1.20	1.00
1:A:44:ARG:N	1:D:126:ASP:OD1[7_555]	1.21	0.99
1:A:81:VAL:CG1	1:C:135:CYS:O[8_565]	1.21	0.99
1:A:82:GLU:N	1:C:137:GLU:N[8_565]	1.21	0.99
1:A:82:GLU:CA	1:C:136:GLY:CA[8_565]	1.21	0.99
1:A:112:GLY:CA	1:C:29:ILE:CG2[8_565]	1.21	0.99
1:A:155:ARG:CZ	1:C:240:GLN:CD[8_565]	1.21	0.99
1:A:204:PRO:CA	1:C:249:PHE:CG[8_565]	1.21	0.99
1:A:264:GLY:CA	1:D:140:ASN:ND2[7_555]	1.21	0.99
1:B:24:VAL:N	1:C:60:ASN:N[6_455]	1.21	0.99
1:B:60:ASN:N	1:C:24:VAL:N[6_455]	1.21	0.99
1:B:87:SER:CB	1:C:8:TYR:O[7_555]	1.21	0.99
1:B:89:VAL:CG1	1:C:10:ILE:CG1[7_555]	1.21	0.99
1:B:115:HIS:CG	1:C:107:PHE:CZ[7_555]	1.21	0.99
1:B:131:SER:CA	1:D:67:TRP:CD1[8_565]	1.21	0.99
1:B:143:PHE:CB	1:D:84:ALA:CA[8_565]	1.21	0.99
1:B:163:THR:O	1:C:159:GLN:N[7_555]	1.21	0.99
1:B:186:CYS:C	1:C:157:LYS:CE[7_555]	1.21	0.99
1:A:80:GLN:CA	1:C:141:GLY:O[8_565]	1.22	0.98
1:A:218:GLU:CA	1:D:142:ILE:CD1[7_555]	1.22	0.98
1:B:14:ARG:NH2	1:C:212:LEU:CD1[6_455]	1.22	0.98
1:B:15:ALA:CB	1:C:52:ILE:CG2[6_455]	1.22	0.98
1:B:18:LEU:CD2	1:C:55:ASP:N[6_455]	1.22	0.98
1:B:41:ALA:CA	1:C:56:PRO:CD[6_455]	1.22	0.98
1:B:82:GLU:C	1:C:148:LEU:CB[7_555]	1.22	0.98
1:B:97:ALA:N	1:D:56:PRO:O[6_455]	1.22	0.98
1:B:104:VAL:N	1:D:58:PRO:CA[6_455]	1.22	0.98
1:B:118:TYR:O	1:D:14:ARG:NH1[6_455]	1.22	0.98
1:B:119:VAL:CA	1:D:14:ARG:NE[6_455]	1.22	0.98
1:B:119:VAL:C	1:D:14:ARG:CG[6_455]	1.22	0.98
1:B:119:VAL:CB	1:D:14:ARG:CD[6_455]	1.22	0.98
1:B:120:GLU:OE2	1:D:15:ALA:CA[6_455]	1.22	0.98
1:B:132:LEU:CA	1:D:115:HIS:ND1[8_565]	1.22	0.98
1:B:149:VAL:CB	1:C:83:LYS:CD[7_555]	1.22	0.98
1:B:161:PHE:CD2	1:C:166:LEU:CD1[7_555]	1.22	0.98
1:B:208:HIS:N	1:C:79:GLU:OE2[7_555]	1.22	0.98
1:B:222:ARG:CA	1:D:206:MET:C[8_565]	1.22	0.98
1:B:264:GLY:O	1:D:156:ALA:O[8_565]	1.22	0.98
1:D:18:LEU:CD1	5:B:571:HOH:O[6_555]	1.22	0.98
1:A:84:ALA:O	1:C:143:PHE:O[8_565]	1.23	0.97
1:A:88:VAL:CB	1:C:46:ASP:OD2[8_565]	1.23	0.97

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:110:ASN:CA	1:C:212:LEU:CB[8_565]	1.23	0.97
1:A:113:PHE:CZ	1:C:219:GLN:O[8_565]	1.23	0.97
1:A:116:GLU:O	1:C:127:PRO:O[8_565]	1.23	0.97
1:A:136:GLY:C	1:D:219:GLN:CG[7_555]	1.23	0.97
1:A:143:PHE:CE2	1:D:263:PHE:CE1[7_555]	1.23	0.97
1:A:263:PHE:CA	1:D:140:ASN:OD1[7_555]	1.23	0.97
1:A:263:PHE:CE1	1:D:143:PHE:CE1[7_555]	1.23	0.97
1:B:9:LEU:N	1:C:87:SER:CB[7_555]	1.23	0.97
1:B:46:ASP:CG	1:D:88:VAL:CA[8_565]	1.23	0.97
1:B:51:ARG:NE	1:D:87:SER:CB[8_565]	1.23	0.97
1:B:54:LEU:CB	1:C:18:LEU:CD1[6_455]	1.23	0.97
1:B:87:SER:CB	1:C:9:LEU:N[7_555]	1.23	0.97
1:B:110:ASN:O	1:C:69:VAL:CA[7_555]	1.23	0.97
1:B:124:PRO:CA	1:D:90:THR:CG2[8_565]	1.23	0.97
1:B:137:GLU:N	1:D:82:GLU:N[8_565]	1.23	0.97
1:B:223:ALA:CB	1:D:205:GLY:CA[8_565]	1.23	0.97
1:B:240:GLN:OE1	1:D:155:ARG:NH1[8_565]	1.23	0.97
1:B:249:PHE:CB	1:D:204:PRO:CG[8_565]	1.23	0.97
1:A:14:ARG:CD	1:C:119:VAL:CB[6_455]	1.24	0.96
1:A:32:VAL:CG2	1:D:44:ARG:NH2[7_555]	1.24	0.96
1:A:110:ASN:N	1:C:212:LEU:CB[8_565]	1.24	0.96
1:A:196:SER:CA	1:C:247:TYR:CE1[8_565]	1.24	0.96
1:A:217:LYS:CA	1:D:141:GLY:CA[7_555]	1.24	0.96
1:A:219:GLN:O	1:D:137:GLU:CG[7_555]	1.24	0.96
1:B:11:PHE:CA	1:C:19:GLU:CA[6_455]	1.24	0.96
1:B:19:GLU:CA	1:C:11:PHE:CA[6_455]	1.24	0.96
1:B:41:ALA:CA	1:C:56:PRO:N[6_455]	1.24	0.96
1:B:79:GLU:C	1:C:150:VAL:CG1[7_555]	1.24	0.96
1:B:107:PHE:O	1:C:115:HIS:C[7_555]	1.24	0.96
1:B:124:PRO:CA	1:D:90:THR:CB[8_565]	1.24	0.96
1:B:134:VAL:CB	1:D:161:PHE:CE1[8_565]	1.24	0.96
1:B:205:GLY:C	1:C:75:ALA:C[7_555]	1.24	0.96
1:D:280:ASP:CB	1:D:285:TRP:CD1[7_645]	1.24	0.96
1:A:14:ARG:CG	1:C:119:VAL:C[6_455]	1.25	0.95
1:A:58:PRO:CA	1:C:104:VAL:N[6_455]	1.25	0.95
1:A:84:ALA:CA	1:C:143:PHE:CB[8_565]	1.25	0.95
1:A:127:PRO:CD	1:D:43:VAL:CG1[7_555]	1.25	0.95
1:A:156:ALA:O	1:C:264:GLY:O[8_565]	1.25	0.95
1:A:198:PRO:CA	1:C:238:ILE:CB[8_565]	1.25	0.95
1:A:206:MET:C	1:C:222:ARG:CA[8_565]	1.25	0.95
1:B:11:PHE:CD1	1:C:16:ASP:O[6_455]	1.25	0.95
1:B:48:ARG:N	1:D:89:VAL:CA[8_565]	1.25	0.95

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:89:VAL:CG1	1:C:10:ILE:CB[7_555]	1.25	0.95
1:B:107:PHE:O	1:C:116:GLU:CA[7_555]	1.25	0.95
1:B:107:PHE:CE2	1:C:115:HIS:ND1[7_555]	1.25	0.95
1:B:110:ASN:C	1:C:69:VAL:CG1[7_555]	1.25	0.95
1:B:113:PHE:O	1:C:117:LEU:CB[7_555]	1.25	0.95
1:B:113:PHE:CE2	1:C:78:ALA:N[7_555]	1.25	0.95
1:B:123:PHE:CE1	1:D:88:VAL:O[8_565]	1.25	0.95
1:B:150:VAL:CG1	1:C:79:GLU:C[7_555]	1.25	0.95
1:B:161:PHE:CE2	1:C:166:LEU:CD1[7_555]	1.25	0.95
1:B:167:GLY:C	1:C:157:LYS:O[7_555]	1.25	0.95
1:B:247:TYR:N	1:D:155:ARG:N[8_565]	1.25	0.95
1:B:255:ALA:C	1:C:254:PRO:CD[6_455]	1.25	0.95
1:A:56:PRO:CG	1:C:97:ALA:O[6_455]	1.26	0.94
1:A:59:ALA:CA	1:C:103:GLN:CG[6_455]	1.26	0.94
1:A:106:GLN:CG	1:C:129:LEU:CD2[8_565]	1.26	0.94
1:A:115:HIS:CD2	1:C:133:PHE:N[8_565]	1.26	0.94
1:A:155:ARG:N	1:C:247:TYR:N[8_565]	1.26	0.94
1:A:156:ALA:N	1:C:245:LYS:O[8_565]	1.26	0.94
1:A:197:ALA:C	1:C:238:ILE:CB[8_565]	1.26	0.94
1:A:204:PRO:CA	1:C:249:PHE:CE2[8_565]	1.26	0.94
1:A:215:LYS:O	1:D:143:PHE:CG[7_555]	1.26	0.94
1:A:215:LYS:CG	1:D:134:VAL:C[7_555]	1.26	0.94
1:A:219:GLN:O	1:D:137:GLU:CD[7_555]	1.26	0.94
1:B:14:ARG:CB	1:C:25:TYR:CZ[6_455]	1.26	0.94
1:B:40:ARG:C	1:C:56:PRO:CD[6_455]	1.26	0.94
1:B:41:ALA:N	1:C:56:PRO:CG[6_455]	1.26	0.94
1:B:47:GLY:O	1:D:89:VAL:CB[8_565]	1.26	0.94
1:B:52:ILE:CG2	1:C:15:ALA:CB[6_455]	1.26	0.94
1:B:56:PRO:CD	1:C:40:ARG:C[6_455]	1.26	0.94
1:B:63:ALA:CA	1:C:90:THR:N[7_555]	1.26	0.94
1:B:64:ALA:CA	1:C:89:VAL:N[7_555]	1.26	0.94
1:B:117:LEU:CB	1:C:113:PHE:O[7_555]	1.26	0.94
1:B:129:LEU:CD1	1:D:114:THR:CG2[8_565]	1.26	0.94
1:B:133:PHE:CA	1:D:115:HIS:CD2[8_565]	1.26	0.94
1:B:142:ILE:CG2	1:D:83:LYS:CA[8_565]	1.26	0.94
1:B:164:ASP:OD2	1:C:184:LEU:CD2[7_555]	1.26	0.94
1:B:218:GLU:OE1	1:D:148:LEU:O[8_565]	1.26	0.94
1:B:222:ARG:C	1:D:206:MET:CA[8_565]	1.26	0.94
1:B:224:PHE:O	1:D:206:MET:SD[8_565]	1.26	0.94
1:B:224:PHE:CZ	1:D:202:LEU:O[8_565]	1.26	0.94
1:B:246:VAL:CB	1:D:154:ASP:OD1[8_565]	1.26	0.94
1:A:17:VAL:O	1:C:122:SER:CA[6_455]	1.27	0.93

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:89:VAL:CA	1:C:48:ARG:N[8_565]	1.27	0.93
1:A:111:ASP:OD1	1:C:261:LEU:CA[8_565]	1.27	0.93
1:A:152:VAL:CA	1:C:220:VAL:CG1[8_565]	1.27	0.93
1:A:155:ARG:NH1	1:C:240:GLN:NE2[8_565]	1.27	0.93
1:A:162:PHE:CZ	1:C:216:SER:N[8_565]	1.27	0.93
1:A:197:ALA:O	1:C:238:ILE:CG2[8_565]	1.27	0.93
1:A:206:MET:CA	1:C:222:ARG:C[8_565]	1.27	0.93
1:A:215:LYS:CG	1:D:134:VAL:CB[7_555]	1.27	0.93
1:B:51:ARG:CD	1:D:87:SER:CB[8_565]	1.27	0.93
1:B:65:ILE:O	1:C:107:PHE:CB[7_555]	1.27	0.93
1:B:116:GLU:CA	1:C:107:PHE:O[7_555]	1.27	0.93
1:B:120:GLU:OE2	1:D:16:ASP:N[6_455]	1.27	0.93
1:B:123:PHE:CG	1:D:19:GLU:CG[6_455]	1.27	0.93
1:B:161:PHE:O	1:C:162:PHE:CG[7_555]	1.27	0.93
1:B:164:ASP:O	1:C:195:LEU:CD1[7_555]	1.27	0.93
1:B:165:VAL:CG1	1:C:162:PHE:CZ[7_555]	1.27	0.93
1:B:217:LYS:CG	1:D:195:LEU:CA[8_565]	1.27	0.93
1:B:218:GLU:CA	1:D:149:VAL:C[8_565]	1.27	0.93
1:B:248:SER:OG	1:D:154:ASP:N[8_565]	1.27	0.93
1:B:265:GLY:N	1:D:157:LYS:O[8_565]	1.27	0.93
1:C:104:VAL:O	5:B:512:HOH:O[7_555]	1.27	0.93
1:A:67:TRP:CD1	1:C:131:SER:C[8_565]	1.28	0.92
1:A:89:VAL:CB	1:C:47:GLY:C[8_565]	1.28	0.92
1:A:105:ARG:CD	1:C:125:THR:CB[8_565]	1.28	0.92
1:A:126:ASP:N	1:D:31:ALA:CB[7_555]	1.28	0.92
1:A:142:ILE:N	1:D:217:LYS:CA[7_555]	1.28	0.92
1:A:161:PHE:CE2	1:C:134:VAL:CG2[8_565]	1.28	0.92
1:A:196:SER:CB	1:C:217:LYS:NZ[8_565]	1.28	0.92
1:A:202:LEU:CA	1:C:224:PHE:CE2[8_565]	1.28	0.92
1:A:204:PRO:CG	1:C:249:PHE:CG[8_565]	1.28	0.92
1:A:207:VAL:CG2	1:C:222:ARG:CD[8_565]	1.28	0.92
1:A:214:ALA:N	1:D:138:GLU:CD[7_555]	1.28	0.92
1:B:76:ALA:N	1:C:206:MET:N[7_555]	1.28	0.92
1:B:78:ALA:CA	1:C:113:PHE:CE1[7_555]	1.28	0.92
1:B:134:VAL:CB	1:D:161:PHE:CZ[8_565]	1.28	0.92
1:B:136:GLY:C	1:D:81:VAL:C[8_565]	1.28	0.92
1:B:148:LEU:C	1:C:83:LYS:CB[7_555]	1.28	0.92
1:B:159:GLN:O	1:C:163:THR:C[7_555]	1.28	0.92
1:B:162:PHE:C	1:C:162:PHE:N[7_555]	1.28	0.92
1:B:222:ARG:N	1:D:206:MET:C[8_565]	1.28	0.92
1:B:224:PHE:C	1:D:206:MET:SD[8_565]	1.28	0.92
1:B:234:VAL:CG2	1:D:203:LYS:CE[8_565]	1.28	0.92

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:261:LEU:C	1:D:111:ASP:CG[8_565]	1.28	0.92
1:B:263:PHE:N	1:D:158:THR:CB[8_565]	1.28	0.92
1:D:165:VAL:CB	5:B:564:HOH:O[8_655]	1.28	0.92
1:A:86:TYR:CE1	1:C:145:LEU:O[8_565]	1.29	0.91
1:A:111:ASP:OD2	1:C:262:GLY:N[8_565]	1.29	0.91
1:A:112:GLY:O	1:C:29:ILE:O[8_565]	1.29	0.91
1:A:130:GLU:N	1:D:45:LEU:CB[7_555]	1.29	0.91
1:A:206:MET:O	1:C:221:ASP:C[8_565]	1.29	0.91
1:A:206:MET:SD	1:C:224:PHE:C[8_565]	1.29	0.91
1:B:58:PRO:C	1:C:26:GLN:N[6_455]	1.29	0.91
1:B:69:VAL:CA	1:C:110:ASN:O[7_555]	1.29	0.91
1:B:80:GLN:OE1	1:C:194:ALA:C[7_555]	1.29	0.91
1:B:106:GLN:N	1:C:114:THR:CB[7_555]	1.29	0.91
1:B:118:TYR:O	1:D:14:ARG:CZ[6_455]	1.29	0.91
1:B:144:GLY:C	1:D:86:TYR:N[8_565]	1.29	0.91
1:B:192:THR:O	1:C:84:ALA:N[7_555]	1.29	0.91
1:B:212:LEU:CA	1:D:110:ASN:CB[8_565]	1.29	0.91
1:B:218:GLU:C	1:D:150:VAL:CG1[8_565]	1.29	0.91
1:B:218:GLU:OE2	1:D:194:ALA:N[8_565]	1.29	0.91
1:B:220:VAL:CG1	1:D:152:VAL:CA[8_565]	1.29	0.91
1:B:223:ALA:N	1:D:206:MET:CA[8_565]	1.29	0.91
1:B:256:GLY:N	1:C:254:PRO:N[6_455]	1.29	0.91
1:C:63:ALA:N	5:B:579:HOH:O[7_555]	1.29	0.91
1:A:80:GLN:CG	1:C:138:GLU:O[8_565]	1.30	0.90
1:A:83:LYS:CA	1:C:142:ILE:CG2[8_565]	1.30	0.90
1:A:90:THR:OG1	1:C:124:PRO:N[8_565]	1.30	0.90
1:A:124:PRO:C	1:D:26:GLN:O[7_555]	1.30	0.90
1:A:141:GLY:C	1:D:217:LYS:N[7_555]	1.30	0.90
1:A:153:ALA:C	1:C:248:SER:CB[8_565]	1.30	0.90
1:A:161:PHE:CG	1:C:134:VAL:CG2[8_565]	1.30	0.90
1:A:195:LEU:O	1:C:217:LYS:CD[8_565]	1.30	0.90
1:A:203:LYS:O	1:C:224:PHE:CA[8_565]	1.30	0.90
1:A:206:MET:CG	1:C:224:PHE:C[8_565]	1.30	0.90
1:A:219:GLN:CG	1:D:136:GLY:C[7_555]	1.30	0.90
1:B:11:PHE:CD2	1:C:16:ASP:CA[6_455]	1.30	0.90
1:B:16:ASP:O	1:C:11:PHE:CD1[6_455]	1.30	0.90
1:B:35:ARG:NE	1:C:55:ASP:CB[6_455]	1.30	0.90
1:B:39:GLY:C	1:C:40:ARG:CG[6_455]	1.30	0.90
1:B:41:ALA:CA	1:C:56:PRO:CB[6_455]	1.30	0.90
1:B:47:GLY:C	1:D:89:VAL:CB[8_565]	1.30	0.90
1:B:48:ARG:NH2	1:D:15:ALA:CB[6_455]	1.30	0.90
1:B:113:PHE:CE2	1:C:77:ILE:C[7_555]	1.30	0.90

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:115:HIS:C	1:C:107:PHE:O[7_555]	1.30	0.90
1:B:128:VAL:CG1	1:D:8:TYR:CZ[8_565]	1.30	0.90
1:B:137:GLU:CB	1:D:79:GLU:C[8_565]	1.30	0.90
1:B:141:GLY:O	1:D:80:GLN:CA[8_565]	1.30	0.90
1:B:166:LEU:CD1	1:C:161:PHE:CD2[7_555]	1.30	0.90
1:B:186:CYS:CA	1:C:157:LYS:CE[7_555]	1.30	0.90
1:B:220:VAL:CG1	1:D:151:ILE:C[8_565]	1.30	0.90
1:B:240:GLN:CD	1:D:155:ARG:NH1[8_565]	1.30	0.90
1:B:254:PRO:N	1:C:256:GLY:N[6_455]	1.30	0.90
1:B:265:GLY:C	1:D:160:SER:CB[8_565]	1.30	0.90
1:A:15:ALA:CB	1:C:48:ARG:NH2[6_455]	1.31	0.89
1:A:26:GLN:O	1:D:124:PRO:C[7_555]	1.31	0.89
1:A:81:VAL:C	1:C:136:GLY:C[8_565]	1.31	0.89
1:A:89:VAL:CA	1:C:47:GLY:CA[8_565]	1.31	0.89
1:A:108:ALA:N	1:C:45:LEU:CA[8_565]	1.31	0.89
1:A:112:GLY:CA	1:C:29:ILE:CB[8_565]	1.31	0.89
1:A:137:GLU:CA	1:D:219:GLN:CA[7_555]	1.31	0.89
1:A:196:SER:N	1:C:217:LYS:NZ[8_565]	1.31	0.89
1:A:204:PRO:N	1:C:249:PHE:CG[8_565]	1.31	0.89
1:A:204:PRO:CB	1:C:249:PHE:CG[8_565]	1.31	0.89
1:A:205:GLY:CA	1:C:223:ALA:CB[8_565]	1.31	0.89
1:A:214:ALA:C	1:D:138:GLU:CD[7_555]	1.31	0.89
1:B:11:PHE:C	1:C:19:GLU:CA[6_455]	1.31	0.89
1:B:16:ASP:CA	1:C:11:PHE:CD2[6_455]	1.31	0.89
1:B:26:GLN:N	1:C:58:PRO:C[6_455]	1.31	0.89
1:B:41:ALA:CA	1:C:56:PRO:CG[6_455]	1.31	0.89
1:B:69:VAL:CB	1:C:110:ASN:O[7_555]	1.31	0.89
1:B:77:ILE:CD1	1:C:111:ASP:CB[7_555]	1.31	0.89
1:B:90:THR:CA	1:C:63:ALA:CB[7_555]	1.31	0.89
1:B:132:LEU:CD2	1:D:65:ILE:CG1[8_565]	1.31	0.89
1:B:144:GLY:O	1:D:86:TYR:N[8_565]	1.31	0.89
1:B:208:HIS:CA	1:C:79:GLU:OE1[7_555]	1.31	0.89
1:B:222:ARG:CD	1:D:207:VAL:CG1[8_565]	1.31	0.89
1:B:222:ARG:NE	1:D:207:VAL:CG2[8_565]	1.31	0.89
1:B:238:ILE:N	1:D:198:PRO:CG[8_565]	1.31	0.89
1:B:240:GLN:CD	1:D:155:ARG:CZ[8_565]	1.31	0.89
1:B:240:GLN:NE2	1:D:155:ARG:CZ[8_565]	1.31	0.89
1:B:247:TYR:N	1:D:155:ARG:C[8_565]	1.31	0.89
1:C:182:PHE:CD1	1:C:278:PHE:CB[7_555]	1.31	0.89
1:D:82:GLU:OE2	4:B:303:SO4:O4[8_655]	1.31	0.89
1:A:32:VAL:N	1:D:126:ASP:CB[7_555]	1.32	0.88
1:A:89:VAL:CB	1:C:47:GLY:O[8_565]	1.32	0.88

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:136:GLY:N	1:D:219:GLN:OE1[7_555]	1.32	0.88
1:A:143:PHE:CB	1:D:215:LYS:O[7_555]	1.32	0.88
1:A:206:MET:SD	1:C:224:PHE:O[8_565]	1.32	0.88
1:A:220:VAL:CG2	1:D:138:GLU:C[7_555]	1.32	0.88
1:A:263:PHE:CD2	1:D:140:ASN:O[7_555]	1.32	0.88
1:B:18:LEU:CD1	1:C:54:LEU:CB[6_455]	1.32	0.88
1:B:23:VAL:CG2	1:C:61:ARG:CG[6_455]	1.32	0.88
1:B:25:TYR:CD1	1:C:14:ARG:CD[6_455]	1.32	0.88
1:B:25:TYR:CE2	1:C:14:ARG:CA[6_455]	1.32	0.88
1:B:25:TYR:CZ	1:C:14:ARG:CB[6_455]	1.32	0.88
1:B:26:GLN:N	1:C:59:ALA:N[6_455]	1.32	0.88
1:B:56:PRO:CA	1:C:41:ALA:CA[6_455]	1.32	0.88
1:B:68:ASN:O	1:C:110:ASN:OD1[7_555]	1.32	0.88
1:B:123:PHE:C	1:D:19:GLU:O[6_455]	1.32	0.88
1:B:136:GLY:O	1:D:81:VAL:C[8_565]	1.32	0.88
1:B:149:VAL:CB	1:C:83:LYS:NZ[7_555]	1.32	0.88
1:B:158:THR:CA	1:C:166:LEU:C[7_555]	1.32	0.88
1:B:162:PHE:N	1:C:162:PHE:C[7_555]	1.32	0.88
1:B:168:PHE:N	1:C:157:LYS:C[7_555]	1.32	0.88
1:B:192:THR:CG2	1:C:84:ALA:C[7_555]	1.32	0.88
1:B:215:LYS:O	1:D:162:PHE:CE1[8_565]	1.32	0.88
1:B:215:LYS:O	1:D:162:PHE:CE2[8_565]	1.32	0.88
1:B:222:ARG:C	1:D:206:MET:C[8_565]	1.32	0.88
1:B:238:ILE:CB	1:D:197:ALA:C[8_565]	1.32	0.88
1:B:247:TYR:CE1	1:D:196:SER:C[8_565]	1.32	0.88
1:A:45:LEU:CB	1:D:130:GLU:N[7_555]	1.33	0.87
1:A:46:ASP:OD1	1:D:132:LEU:CD1[7_555]	1.33	0.87
1:A:83:LYS:C	1:C:142:ILE:C[8_565]	1.33	0.87
1:A:86:TYR:CE2	1:C:134:VAL:O[8_565]	1.33	0.87
1:A:113:PHE:O	1:C:133:PHE:CE2[8_565]	1.33	0.87
1:A:114:THR:O	1:C:132:LEU:CD1[8_565]	1.33	0.87
1:A:139:ALA:C	1:D:247:TYR:O[7_555]	1.33	0.87
1:A:148:LEU:C	1:C:218:GLU:CG[8_565]	1.33	0.87
1:A:206:MET:SD	1:C:225:ALA:N[8_565]	1.33	0.87
1:A:207:VAL:CG2	1:C:222:ARG:NE[8_565]	1.33	0.87
1:A:217:LYS:N	1:D:141:GLY:C[7_555]	1.33	0.87
1:A:218:GLU:CG	1:D:142:ILE:CB[7_555]	1.33	0.87
1:B:16:ASP:O	1:C:11:PHE:CG[6_455]	1.33	0.87
1:B:19:GLU:CA	1:C:11:PHE:C[6_455]	1.33	0.87
1:B:52:ILE:CB	1:C:15:ALA:CB[6_455]	1.33	0.87
1:B:74:LEU:CD1	1:C:112:GLY:O[7_555]	1.33	0.87
1:B:102:ALA:O	1:D:59:ALA:O[6_455]	1.33	0.87

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:125:THR:OG1	1:D:105:ARG:CG[8_565]	1.33	0.87
1:B:129:LEU:O	1:D:115:HIS:O[8_565]	1.33	0.87
1:B:132:LEU:C	1:D:115:HIS:CE1[8_565]	1.33	0.87
1:B:134:VAL:CG2	1:D:161:PHE:CG[8_565]	1.33	0.87
1:B:136:GLY:CA	1:D:82:GLU:N[8_565]	1.33	0.87
1:B:159:GLN:C	1:C:163:THR:O[7_555]	1.33	0.87
1:B:218:GLU:CG	1:D:149:VAL:N[8_565]	1.33	0.87
1:B:219:GLN:O	1:D:113:PHE:CZ[8_565]	1.33	0.87
1:B:225:ALA:N	1:D:206:MET:CG[8_565]	1.33	0.87
1:B:240:GLN:CD	1:D:155:ARG:NH2[8_565]	1.33	0.87
1:B:254:PRO:CD	1:C:255:ALA:C[6_455]	1.33	0.87
1:C:62:LEU:CA	5:B:579:HOH:O[7_555]	1.33	0.87
1:D:113:PHE:CG	5:B:519:HOH:O[8_655]	1.33	0.87
1:A:19:GLU:O	1:C:123:PHE:C[6_455]	1.34	0.86
1:A:80:GLN:OE1	1:C:141:GLY:N[8_565]	1.34	0.86
1:A:111:ASP:OD1	1:C:261:LEU:O[8_565]	1.34	0.86
1:A:166:LEU:CD1	1:C:215:LYS:CD[8_565]	1.34	0.86
1:A:197:ALA:N	1:C:247:TYR:CE1[8_565]	1.34	0.86
1:A:205:GLY:N	1:C:249:PHE:CE2[8_565]	1.34	0.86
1:A:218:GLU:CB	1:D:142:ILE:CG1[7_555]	1.34	0.86
1:B:56:PRO:CG	1:C:41:ALA:CA[6_455]	1.34	0.86
1:B:86:TYR:CG	1:C:67:TRP:CD2[7_555]	1.34	0.86
1:B:122:SER:N	1:D:17:VAL:O[6_455]	1.34	0.86
1:B:124:PRO:CA	1:D:90:THR:OG1[8_565]	1.34	0.86
1:B:148:LEU:CD2	1:C:82:GLU:N[7_555]	1.34	0.86
1:B:186:CYS:O	1:C:157:LYS:CE[7_555]	1.34	0.86
1:B:206:MET:N	1:C:76:ALA:N[7_555]	1.34	0.86
1:B:222:ARG:CG	1:D:207:VAL:CG1[8_565]	1.34	0.86
1:B:262:GLY:N	1:D:111:ASP:CG[8_565]	1.34	0.86
1:B:263:PHE:CD2	1:D:195:LEU:CG[8_565]	1.34	0.86
1:C:182:PHE:CE1	1:C:278:PHE:CA[7_555]	1.34	0.86
1:A:18:LEU:O	1:C:122:SER:C[6_455]	1.35	0.85
1:A:19:GLU:O	1:C:123:PHE:O[6_455]	1.35	0.85
1:A:82:GLU:N	1:C:136:GLY:O[8_565]	1.35	0.85
1:A:82:GLU:CA	1:C:136:GLY:C[8_565]	1.35	0.85
1:A:90:THR:CB	1:C:124:PRO:N[8_565]	1.35	0.85
1:A:125:THR:N	1:D:26:GLN:CA[7_555]	1.35	0.85
1:A:126:ASP:OD1	1:D:44:ARG:N[7_555]	1.35	0.85
1:A:130:GLU:CG	1:D:133:PHE:CE2[7_555]	1.35	0.85
1:A:131:SER:N	1:D:45:LEU:CD1[7_555]	1.35	0.85
1:A:134:VAL:C	1:D:215:LYS:CG[7_555]	1.35	0.85
1:A:137:GLU:CB	1:D:219:GLN:C[7_555]	1.35	0.85

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:155:ARG:N	1:C:246:VAL:C[8_565]	1.35	0.85
1:A:164:ASP:C	1:C:140:ASN:CG[8_565]	1.35	0.85
1:A:206:MET:N	1:C:224:PHE:N[8_565]	1.35	0.85
1:B:11:PHE:CE2	1:C:16:ASP:CB[6_455]	1.35	0.85
1:B:22:VAL:O	1:C:59:ALA:O[6_455]	1.35	0.85
1:B:29:ILE:O	1:D:112:GLY:O[8_565]	1.35	0.85
1:B:40:ARG:N	1:C:40:ARG:CB[6_455]	1.35	0.85
1:B:45:LEU:CD1	1:D:108:ALA:O[8_565]	1.35	0.85
1:B:46:ASP:OD1	1:D:87:SER:O[8_565]	1.35	0.85
1:B:48:ARG:N	1:D:89:VAL:N[8_565]	1.35	0.85
1:B:52:ILE:CG2	1:C:15:ALA:CA[6_455]	1.35	0.85
1:B:56:PRO:CG	1:C:41:ALA:C[6_455]	1.35	0.85
1:B:103:GLN:CB	1:D:59:ALA:CA[6_455]	1.35	0.85
1:B:120:GLU:N	1:D:14:ARG:CB[6_455]	1.35	0.85
1:B:127:PRO:CB	1:D:118:TYR:CA[8_565]	1.35	0.85
1:B:129:LEU:O	1:D:115:HIS:CA[8_565]	1.35	0.85
1:B:130:GLU:OE2	1:D:105:ARG:CB[8_565]	1.35	0.85
1:B:131:SER:O	1:D:67:TRP:CD1[8_565]	1.35	0.85
1:B:134:VAL:CG2	1:D:161:PHE:CE2[8_565]	1.35	0.85
1:B:159:GLN:CG	1:C:164:ASP:OD1[7_555]	1.35	0.85
1:B:162:PHE:CZ	1:C:165:VAL:CG1[7_555]	1.35	0.85
1:B:217:LYS:CB	1:D:195:LEU:CA[8_565]	1.35	0.85
1:B:217:LYS:CD	1:D:195:LEU:O[8_565]	1.35	0.85
1:B:224:PHE:CD2	1:D:203:LYS:N[8_565]	1.35	0.85
1:B:249:PHE:CG	1:D:204:PRO:CD[8_565]	1.35	0.85
1:D:82:GLU:CG	4:B:303:SO4:S[8_655]	1.35	0.85
1:A:14:ARG:CA	1:C:119:VAL:O[6_455]	1.36	0.84
1:A:46:ASP:N	1:D:129:LEU:CD1[7_555]	1.36	0.84
1:A:56:PRO:O	1:C:97:ALA:N[6_455]	1.36	0.84
1:A:59:ALA:CA	1:C:103:GLN:CB[6_455]	1.36	0.84
1:A:61:ARG:CZ	1:C:26:GLN:O[8_565]	1.36	0.84
1:A:67:TRP:CD1	1:C:131:SER:O[8_565]	1.36	0.84
1:A:90:THR:OG1	1:C:124:PRO:CA[8_565]	1.36	0.84
1:A:105:ARG:N	1:C:126:ASP:N[8_565]	1.36	0.84
1:A:107:PHE:C	1:C:45:LEU:O[8_565]	1.36	0.84
1:A:115:HIS:CD2	1:C:132:LEU:C[8_565]	1.36	0.84
1:A:142:ILE:CG1	1:D:218:GLU:CB[7_555]	1.36	0.84
1:A:142:ILE:CG2	1:D:218:GLU:OE1[7_555]	1.36	0.84
1:A:151:ILE:C	1:C:220:VAL:CG1[8_565]	1.36	0.84
1:A:155:ARG:C	1:C:247:TYR:N[8_565]	1.36	0.84
1:A:165:VAL:CG2	1:C:143:PHE:CZ[8_565]	1.36	0.84
1:A:194:ALA:N	1:C:218:GLU:OE2[8_565]	1.36	0.84

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:219:GLN:CA	1:D:137:GLU:CA[7_555]	1.36	0.84
1:B:21:MET:CA	1:C:60:ASN:CG[6_455]	1.36	0.84
1:B:22:VAL:N	1:C:12:GLU:O[6_455]	1.36	0.84
1:B:56:PRO:CB	1:C:41:ALA:O[6_455]	1.36	0.84
1:B:64:ALA:O	1:C:88:VAL:CA[7_555]	1.36	0.84
1:B:74:LEU:CA	1:C:111:ASP:O[7_555]	1.36	0.84
1:B:78:ALA:N	1:C:113:PHE:CE2[7_555]	1.36	0.84
1:B:90:THR:N	1:C:63:ALA:CA[7_555]	1.36	0.84
1:B:106:GLN:OE1	1:C:116:GLU:OE2[7_555]	1.36	0.84
1:B:110:ASN:O	1:C:69:VAL:CB[7_555]	1.36	0.84
1:B:114:THR:CB	1:C:106:GLN:N[7_555]	1.36	0.84
1:B:131:SER:C	1:D:67:TRP:NE1[8_565]	1.36	0.84
1:B:159:GLN:N	1:C:163:THR:O[7_555]	1.36	0.84
1:B:166:LEU:CD1	1:C:161:PHE:CE2[7_555]	1.36	0.84
1:B:211:MET:C	1:D:110:ASN:CB[8_565]	1.36	0.84
1:B:221:ASP:C	1:D:206:MET:O[8_565]	1.36	0.84
1:B:224:PHE:CA	1:D:203:LYS:O[8_565]	1.36	0.84
1:B:225:ALA:N	1:D:206:MET:SD[8_565]	1.36	0.84
1:B:249:PHE:CG	1:D:204:PRO:CA[8_565]	1.36	0.84
1:B:249:PHE:CE2	1:D:205:GLY:N[8_565]	1.36	0.84
1:A:14:ARG:CB	1:C:120:GLU:N[6_455]	1.37	0.83
1:A:14:ARG:NE	1:C:119:VAL:CA[6_455]	1.37	0.83
1:A:67:TRP:CD1	1:C:131:SER:CA[8_565]	1.37	0.83
1:A:110:ASN:CB	1:C:212:LEU:CA[8_565]	1.37	0.83
1:A:111:ASP:CG	1:C:261:LEU:C[8_565]	1.37	0.83
1:A:140:ASN:CB	1:D:263:PHE:C[7_555]	1.37	0.83
1:A:158:THR:CB	1:C:263:PHE:N[8_565]	1.37	0.83
1:A:160:SER:OG	1:C:266:GLN:N[8_565]	1.37	0.83
1:A:161:PHE:CB	1:C:213:GLU:OE2[8_565]	1.37	0.83
1:A:202:LEU:CA	1:C:224:PHE:CD2[8_565]	1.37	0.83
1:B:10:ILE:CB	1:C:89:VAL:CG1[7_555]	1.37	0.83
1:B:12:GLU:CB	1:C:22:VAL:CG2[6_455]	1.37	0.83
1:B:16:ASP:OD1	1:C:25:TYR:OH[6_455]	1.37	0.83
1:B:40:ARG:CB	1:C:40:ARG:N[6_455]	1.37	0.83
1:B:40:ARG:CD	1:C:39:GLY:CA[6_455]	1.37	0.83
1:B:63:ALA:CB	1:C:90:THR:CA[7_555]	1.37	0.83
1:B:64:ALA:O	1:C:88:VAL:C[7_555]	1.37	0.83
1:B:67:TRP:CD2	1:C:86:TYR:CG[7_555]	1.37	0.83
1:B:72:SER:O	1:C:204:PRO:O[7_555]	1.37	0.83
1:B:78:ALA:N	1:C:113:PHE:CE1[7_555]	1.37	0.83
1:B:79:GLU:OE2	1:C:208:HIS:N[7_555]	1.37	0.83
1:B:82:GLU:N	1:C:148:LEU:CD2[7_555]	1.37	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:84:ALA:N	1:C:192:THR:O[7_555]	1.37	0.83
1:B:87:SER:CA	1:C:8:TYR:O[7_555]	1.37	0.83
1:B:88:VAL:CA	1:C:64:ALA:O[7_555]	1.37	0.83
1:B:109:ASP:CB	1:C:117:LEU:CD2[7_555]	1.37	0.83
1:B:111:ASP:O	1:C:74:LEU:CA[7_555]	1.37	0.83
1:B:114:THR:CG2	1:C:106:GLN:CA[7_555]	1.37	0.83
1:B:126:ASP:N	1:D:105:ARG:N[8_565]	1.37	0.83
1:B:138:GLU:CD	1:D:81:VAL:CG2[8_565]	1.37	0.83
1:B:222:ARG:CB	1:D:207:VAL:CA[8_565]	1.37	0.83
1:B:237:THR:C	1:D:198:PRO:CG[8_565]	1.37	0.83
1:D:161:PHE:N	5:B:555:HOH:O[8_655]	1.37	0.83
1:A:14:ARG:NH2	1:C:118:TYR:N[6_455]	1.38	0.82
1:A:45:LEU:O	1:D:129:LEU:O[7_555]	1.38	0.82
1:A:87:SER:O	1:C:46:ASP:OD1[8_565]	1.38	0.82
1:A:117:LEU:N	1:C:127:PRO:O[8_565]	1.38	0.82
1:A:128:VAL:CG1	1:D:51:ARG:N[7_555]	1.38	0.82
1:A:142:ILE:CG1	1:D:218:GLU:N[7_555]	1.38	0.82
1:A:149:VAL:C	1:C:218:GLU:CA[8_565]	1.38	0.82
1:A:153:ALA:CA	1:C:249:PHE:N[8_565]	1.38	0.82
1:A:195:LEU:CG	1:C:263:PHE:CE2[8_565]	1.38	0.82
1:B:11:PHE:CG	1:C:16:ASP:O[6_455]	1.38	0.82
1:B:29:ILE:CB	1:D:112:GLY:CA[8_565]	1.38	0.82
1:B:35:ARG:NH2	1:C:55:ASP:OD1[6_455]	1.38	0.82
1:B:41:ALA:CA	1:C:56:PRO:CA[6_455]	1.38	0.82
1:B:54:LEU:C	1:C:18:LEU:CD2[6_455]	1.38	0.82
1:B:67:TRP:CA	1:C:108:ALA:O[7_555]	1.38	0.82
1:B:74:LEU:CD1	1:C:112:GLY:CA[7_555]	1.38	0.82
1:B:101:ALA:C	1:D:13:CYS:O[6_455]	1.38	0.82
1:B:106:GLN:CD	1:C:106:GLN:OE1[7_555]	1.38	0.82
1:B:123:PHE:CB	1:D:19:GLU:CG[6_455]	1.38	0.82
1:B:128:VAL:CG2	1:D:116:GLU:CD[8_565]	1.38	0.82
1:B:163:THR:C	1:C:159:GLN:O[7_555]	1.38	0.82
1:B:215:LYS:CD	1:D:166:LEU:CD1[8_565]	1.38	0.82
1:B:217:LYS:CB	1:D:195:LEU:N[8_565]	1.38	0.82
1:B:222:ARG:CA	1:D:207:VAL:CA[8_565]	1.38	0.82
1:B:248:SER:OG	1:D:153:ALA:O[8_565]	1.38	0.82
1:C:24:VAL:CA	5:B:560:HOH:O[6_555]	1.38	0.82
1:C:206:MET:SD	3:B:302:P6G:C14[6_555]	1.38	0.82
1:D:107:PHE:CE2	5:B:561:HOH:O[8_655]	1.38	0.82
1:A:15:ALA:C	1:C:120:GLU:CD[6_455]	1.39	0.81
1:A:114:THR:CG2	1:C:129:LEU:CD1[8_565]	1.39	0.81
1:A:116:GLU:CB	1:C:128:VAL:CA[8_565]	1.39	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:116:GLU:OE1	1:C:128:VAL:CB[8_565]	1.39	0.81
1:A:150:VAL:CG1	1:C:219:GLN:CA[8_565]	1.39	0.81
1:A:158:THR:CB	1:C:263:PHE:C[8_565]	1.39	0.81
1:A:195:LEU:CA	1:C:217:LYS:CB[8_565]	1.39	0.81
1:A:202:LEU:O	1:C:224:PHE:CE2[8_565]	1.39	0.81
1:A:205:GLY:N	1:C:249:PHE:CZ[8_565]	1.39	0.81
1:A:206:MET:CA	1:C:223:ALA:N[8_565]	1.39	0.81
1:A:222:ARG:N	1:D:137:GLU:OE2[7_555]	1.39	0.81
1:B:14:ARG:NE	1:C:25:TYR:CD1[6_455]	1.39	0.81
1:B:26:GLN:O	1:D:61:ARG:NE[8_565]	1.39	0.81
1:B:41:ALA:C	1:C:56:PRO:CG[6_455]	1.39	0.81
1:B:56:PRO:CB	1:C:41:ALA:CA[6_455]	1.39	0.81
1:B:59:ALA:N	1:C:26:GLN:N[6_455]	1.39	0.81
1:B:59:ALA:O	1:C:22:VAL:O[6_455]	1.39	0.81
1:B:69:VAL:CG1	1:C:110:ASN:C[7_555]	1.39	0.81
1:B:117:LEU:CG	1:C:113:PHE:O[7_555]	1.39	0.81
1:B:125:THR:CB	1:D:105:ARG:CD[8_565]	1.39	0.81
1:B:145:LEU:CA	1:D:85:CYS:O[8_565]	1.39	0.81
1:B:157:LYS:O	1:C:168:PHE:CA[7_555]	1.39	0.81
1:B:218:GLU:CG	1:D:148:LEU:C[8_565]	1.39	0.81
1:B:238:ILE:CA	1:D:198:PRO:CA[8_565]	1.39	0.81
1:B:249:PHE:N	1:D:153:ALA:CA[8_565]	1.39	0.81
1:A:26:GLN:CA	1:D:125:THR:N[7_555]	1.40	0.80
1:A:110:ASN:ND2	1:C:211:MET:O[8_565]	1.40	0.80
1:A:111:ASP:CA	1:C:261:LEU:CG[8_565]	1.40	0.80
1:A:115:HIS:CA	1:C:129:LEU:O[8_565]	1.40	0.80
1:A:161:PHE:CE1	1:C:134:VAL:CB[8_565]	1.40	0.80
1:A:197:ALA:CA	1:C:238:ILE:CG2[8_565]	1.40	0.80
1:A:206:MET:C	1:C:222:ARG:C[8_565]	1.40	0.80
1:A:215:LYS:CD	1:D:134:VAL:O[7_555]	1.40	0.80
1:B:19:GLU:CG	1:C:11:PHE:CA[6_455]	1.40	0.80
1:B:41:ALA:O	1:C:56:PRO:CB[6_455]	1.40	0.80
1:B:54:LEU:CB	1:C:18:LEU:CG[6_455]	1.40	0.80
1:B:56:PRO:CB	1:C:42:LEU:N[6_455]	1.40	0.80
1:B:78:ALA:CB	1:C:113:PHE:CE1[7_555]	1.40	0.80
1:B:84:ALA:C	1:C:192:THR:CG2[7_555]	1.40	0.80
1:B:108:ALA:C	1:C:116:GLU:O[7_555]	1.40	0.80
1:B:116:GLU:O	1:C:108:ALA:N[7_555]	1.40	0.80
1:B:128:VAL:CA	1:D:116:GLU:CB[8_565]	1.40	0.80
1:B:144:GLY:C	1:D:85:CYS:CA[8_565]	1.40	0.80
1:B:148:LEU:CA	1:C:83:LYS:N[7_555]	1.40	0.80
1:B:164:ASP:CB	1:C:184:LEU:CD1[7_555]	1.40	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:222:ARG:CG	1:D:207:VAL:CA[8_565]	1.40	0.80
1:B:246:VAL:C	1:D:155:ARG:N[8_565]	1.40	0.80
1:B:247:TYR:CB	1:D:155:ARG:CB[8_565]	1.40	0.80
1:B:249:PHE:CG	1:D:204:PRO:N[8_565]	1.40	0.80
1:D:16:ASP:OD2	5:B:569:HOH:O[6_555]	1.40	0.80
1:D:262:GLY:O	5:A:576:HOH:O[7_555]	1.40	0.80
1:A:19:GLU:CG	1:C:123:PHE:CG[6_455]	1.41	0.79
1:A:19:GLU:CG	1:C:123:PHE:CB[6_455]	1.41	0.79
1:A:31:ALA:CA	1:D:126:ASP:N[7_555]	1.41	0.79
1:A:59:ALA:O	1:C:102:ALA:O[6_455]	1.41	0.79
1:A:59:ALA:CB	1:C:103:GLN:OE1[6_455]	1.41	0.79
1:A:83:LYS:CD	1:C:142:ILE:CG1[8_565]	1.41	0.79
1:A:88:VAL:O	1:C:123:PHE:CE1[8_565]	1.41	0.79
1:A:105:ARG:N	1:C:126:ASP:CA[8_565]	1.41	0.79
1:A:111:ASP:O	1:C:261:LEU:CD2[8_565]	1.41	0.79
1:A:126:ASP:CA	1:D:31:ALA:CB[7_555]	1.41	0.79
1:A:129:LEU:O	1:D:45:LEU:O[7_555]	1.41	0.79
1:A:132:LEU:CD1	1:D:46:ASP:CG[7_555]	1.41	0.79
1:A:157:LYS:O	1:C:265:GLY:CA[8_565]	1.41	0.79
1:A:207:VAL:CG2	1:C:222:ARG:CG[8_565]	1.41	0.79
1:B:8:TYR:O	1:C:87:SER:CA[7_555]	1.41	0.79
1:B:11:PHE:CA	1:C:19:GLU:CG[6_455]	1.41	0.79
1:B:15:ALA:CB	1:C:52:ILE:CB[6_455]	1.41	0.79
1:B:37:GLU:OE2	1:D:37:GLU:CD[6_455]	1.41	0.79
1:B:45:LEU:O	1:D:107:PHE:C[8_565]	1.41	0.79
1:B:47:GLY:CA	1:D:89:VAL:CA[8_565]	1.41	0.79
1:B:80:GLN:CD	1:C:194:ALA:O[7_555]	1.41	0.79
1:B:85:CYS:C	1:C:6:LEU:CG[7_555]	1.41	0.79
1:B:89:VAL:CA	1:C:64:ALA:N[7_555]	1.41	0.79
1:B:113:PHE:CE1	1:C:78:ALA:CB[7_555]	1.41	0.79
1:B:132:LEU:C	1:D:115:HIS:CD2[8_565]	1.41	0.79
1:B:137:GLU:CA	1:D:79:GLU:C[8_565]	1.41	0.79
1:B:138:GLU:OE1	1:D:81:VAL:CG2[8_565]	1.41	0.79
1:B:157:LYS:O	1:C:167:GLY:C[7_555]	1.41	0.79
1:B:166:LEU:C	1:C:158:THR:CA[7_555]	1.41	0.79
1:B:213:GLU:OE2	1:D:161:PHE:CB[8_565]	1.41	0.79
1:B:216:SER:N	1:D:162:PHE:CE1[8_565]	1.41	0.79
1:B:247:TYR:CA	1:D:155:ARG:CB[8_565]	1.41	0.79
1:B:247:TYR:CB	1:D:155:ARG:CG[8_565]	1.41	0.79
1:B:254:PRO:CD	1:C:255:ALA:O[6_455]	1.41	0.79
1:B:265:GLY:O	1:D:160:SER:CA[8_565]	1.41	0.79
1:C:53:ARG:C	5:B:513:HOH:O[6_555]	1.41	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:55:ASP:O	5:B:572:HOH:O[6_555]	1.41	0.79
1:D:280:ASP:CG	1:D:285:TRP:N[7_645]	1.41	0.79
1:A:17:VAL:O	1:C:122:SER:N[6_455]	1.42	0.78
1:A:18:LEU:CA	1:C:122:SER:N[6_455]	1.42	0.78
1:A:26:GLN:CG	1:D:124:PRO:CG[7_555]	1.42	0.78
1:A:86:TYR:CD1	1:C:145:LEU:O[8_565]	1.42	0.78
1:A:116:GLU:N	1:C:128:VAL:O[8_565]	1.42	0.78
1:A:134:VAL:O	1:D:215:LYS:CD[7_555]	1.42	0.78
1:A:135:CYS:C	1:D:219:GLN:OE1[7_555]	1.42	0.78
1:B:6:LEU:CD1	1:C:86:TYR:N[7_555]	1.42	0.78
1:B:12:GLU:O	1:C:22:VAL:N[6_455]	1.42	0.78
1:B:45:LEU:C	1:D:107:PHE:C[8_565]	1.42	0.78
1:B:51:ARG:NH2	1:D:82:GLU:OE1[8_565]	1.42	0.78
1:B:56:PRO:CG	1:C:41:ALA:N[6_455]	1.42	0.78
1:B:61:ARG:NH1	1:C:90:THR:CG2[7_555]	1.42	0.78
1:B:83:LYS:N	1:C:148:LEU:CA[7_555]	1.42	0.78
1:B:113:PHE:CD1	1:C:78:ALA:CA[7_555]	1.42	0.78
1:B:116:GLU:O	1:C:108:ALA:CB[7_555]	1.42	0.78
1:B:119:VAL:O	1:D:14:ARG:CA[6_455]	1.42	0.78
1:B:122:SER:O	1:D:19:GLU:N[6_455]	1.42	0.78
1:B:129:LEU:CA	1:D:115:HIS:O[8_565]	1.42	0.78
1:B:134:VAL:O	1:D:86:TYR:CE2[8_565]	1.42	0.78
1:B:159:GLN:O	1:C:163:THR:N[7_555]	1.42	0.78
1:B:218:GLU:CG	1:D:148:LEU:O[8_565]	1.42	0.78
1:B:218:GLU:CG	1:D:149:VAL:CA[8_565]	1.42	0.78
1:C:204:PRO:O	5:B:515:HOH:O[7_555]	1.42	0.78
1:A:14:ARG:C	1:C:121:SER:N[6_455]	1.43	0.77
1:A:16:ASP:N	1:C:120:GLU:OE2[6_455]	1.43	0.77
1:A:88:VAL:N	1:C:46:ASP:OD2[8_565]	1.43	0.77
1:A:90:THR:CA	1:C:124:PRO:O[8_565]	1.43	0.77
1:A:125:THR:N	1:D:26:GLN:C[7_555]	1.43	0.77
1:A:138:GLU:OE2	1:D:213:GLU:C[7_555]	1.43	0.77
1:A:150:VAL:O	1:C:217:LYS:O[8_565]	1.43	0.77
1:A:161:PHE:CZ	1:C:134:VAL:CB[8_565]	1.43	0.77
1:A:162:PHE:CZ	1:C:215:LYS:CA[8_565]	1.43	0.77
1:A:263:PHE:N	1:D:140:ASN:N[7_555]	1.43	0.77
1:B:16:ASP:CB	1:C:11:PHE:CE2[6_455]	1.43	0.77
1:B:39:GLY:CA	1:C:40:ARG:NE[6_455]	1.43	0.77
1:B:40:ARG:NH2	1:C:37:GLU:O[6_455]	1.43	0.77
1:B:64:ALA:N	1:C:89:VAL:CA[7_555]	1.43	0.77
1:B:107:PHE:CE2	1:C:115:HIS:CD2[7_555]	1.43	0.77
1:B:128:VAL:O	1:D:116:GLU:N[8_565]	1.43	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:133:PHE:C	1:D:107:PHE:CE1[8.565]	1.43	0.77
1:B:134:VAL:CB	1:D:161:PHE:CD1[8.565]	1.43	0.77
1:B:142:ILE:C	1:D:83:LYS:C[8.565]	1.43	0.77
1:B:162:PHE:N	1:C:162:PHE:N[7.555]	1.43	0.77
1:B:165:VAL:O	1:C:158:THR:CG2[7.555]	1.43	0.77
1:B:168:PHE:CA	1:C:160:SER:OG[7.555]	1.43	0.77
1:B:194:ALA:C	1:C:80:GLN:OE1[7.555]	1.43	0.77
1:B:211:MET:C	1:D:110:ASN:ND2[8.565]	1.43	0.77
1:B:212:LEU:CB	1:D:109:ASP:C[8.565]	1.43	0.77
1:A:79:GLU:CB	1:C:137:GLU:OE1[8.565]	1.44	0.76
1:A:79:GLU:CG	1:C:137:GLU:OE2[8.565]	1.44	0.76
1:A:89:VAL:N	1:C:47:GLY:N[8.565]	1.44	0.76
1:A:89:VAL:CG1	1:C:48:ARG:CA[8.565]	1.44	0.76
1:A:105:ARG:NE	1:C:125:THR:CB[8.565]	1.44	0.76
1:A:106:GLN:CG	1:C:129:LEU:CG[8.565]	1.44	0.76
1:A:110:ASN:CA	1:C:212:LEU:N[8.565]	1.44	0.76
1:A:116:GLU:CA	1:C:128:VAL:C[8.565]	1.44	0.76
1:A:198:PRO:CA	1:C:238:ILE:CA[8.565]	1.44	0.76
1:A:215:LYS:CE	1:D:213:GLU:O[7.555]	1.44	0.76
1:B:45:LEU:CA	1:D:107:PHE:C[8.565]	1.44	0.76
1:B:65:ILE:O	1:C:107:PHE:CA[7.555]	1.44	0.76
1:B:86:TYR:N	1:C:6:LEU:CD1[7.555]	1.44	0.76
1:B:108:ALA:N	1:C:116:GLU:O[7.555]	1.44	0.76
1:B:108:ALA:CB	1:C:116:GLU:O[7.555]	1.44	0.76
1:B:123:PHE:O	1:D:19:GLU:O[6.455]	1.44	0.76
1:B:124:PRO:N	1:D:90:THR:CB[8.565]	1.44	0.76
1:B:163:THR:CA	1:C:160:SER:N[7.555]	1.44	0.76
1:B:187:ASN:N	1:C:157:LYS:NZ[7.555]	1.44	0.76
1:B:212:LEU:N	1:D:110:ASN:CA[8.565]	1.44	0.76
1:B:224:PHE:N	1:D:206:MET:N[8.565]	1.44	0.76
1:B:224:PHE:CG	1:D:203:LYS:CA[8.565]	1.44	0.76
1:B:237:THR:C	1:D:198:PRO:CB[8.565]	1.44	0.76
1:B:247:TYR:CA	1:D:155:ARG:N[8.565]	1.44	0.76
1:B:255:ALA:O	1:C:254:PRO:CD[6.455]	1.44	0.76
1:A:21:MET:N	1:C:122:SER:CB[6.455]	1.45	0.75
1:A:107:PHE:C	1:C:45:LEU:C[8.565]	1.45	0.75
1:A:128:VAL:CB	1:D:43:VAL:O[7.555]	1.45	0.75
1:A:155:ARG:N	1:C:247:TYR:CA[8.565]	1.45	0.75
1:A:204:PRO:CD	1:C:249:PHE:CG[8.565]	1.45	0.75
1:A:207:VAL:CA	1:C:222:ARG:CA[8.565]	1.45	0.75
1:A:216:SER:N	1:D:143:PHE:CD2[7.555]	1.45	0.75
1:A:218:GLU:OE2	1:D:142:ILE:O[7.555]	1.45	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:4:LYS:N	1:C:110:ASN:CB[7_555]	1.45	0.75
1:B:29:ILE:O	1:D:112:GLY:C[8_565]	1.45	0.75
1:B:42:LEU:N	1:C:56:PRO:CB[6_455]	1.45	0.75
1:B:47:GLY:O	1:D:89:VAL:CA[8_565]	1.45	0.75
1:B:83:LYS:CA	1:C:148:LEU:CA[7_555]	1.45	0.75
1:B:88:VAL:CA	1:C:64:ALA:C[7_555]	1.45	0.75
1:B:102:ALA:N	1:D:13:CYS:C[6_455]	1.45	0.75
1:B:115:HIS:O	1:C:115:HIS:O[7_555]	1.45	0.75
1:B:122:SER:C	1:D:18:LEU:O[6_455]	1.45	0.75
1:B:127:PRO:CA	1:D:117:LEU:C[8_565]	1.45	0.75
1:B:128:VAL:C	1:D:116:GLU:CA[8_565]	1.45	0.75
1:B:133:PHE:CE2	1:D:113:PHE:O[8_565]	1.45	0.75
1:B:163:THR:CB	1:C:163:THR:OG1[7_555]	1.45	0.75
1:B:168:PHE:CA	1:C:157:LYS:O[7_555]	1.45	0.75
1:B:222:ARG:C	1:D:207:VAL:N[8_565]	1.45	0.75
1:B:224:PHE:CD2	1:D:202:LEU:CA[8_565]	1.45	0.75
1:B:254:PRO:CA	1:C:255:ALA:C[6_455]	1.45	0.75
1:B:261:LEU:CA	1:D:111:ASP:OD1[8_565]	1.45	0.75
1:D:198:PRO:O	5:B:556:HOH:O[8_655]	1.45	0.75
1:D:281:ALA:CB	1:D:284:ILE:O[7_645]	1.45	0.75
1:A:43:VAL:O	1:D:128:VAL:CG2[7_555]	1.46	0.74
1:A:107:PHE:N	1:C:45:LEU:O[8_565]	1.46	0.74
1:A:129:LEU:CD1	1:D:46:ASP:N[7_555]	1.46	0.74
1:A:160:SER:CA	1:C:265:GLY:O[8_565]	1.46	0.74
1:A:162:PHE:CZ	1:C:215:LYS:O[8_565]	1.46	0.74
1:A:195:LEU:CA	1:C:217:LYS:CD[8_565]	1.46	0.74
1:A:213:GLU:C	1:D:215:LYS:NZ[7_555]	1.46	0.74
1:A:215:LYS:CB	1:D:134:VAL:C[7_555]	1.46	0.74
1:B:18:LEU:CB	1:C:54:LEU:CB[6_455]	1.46	0.74
1:B:18:LEU:CG	1:C:54:LEU:CB[6_455]	1.46	0.74
1:B:25:TYR:OH	1:C:16:ASP:OD1[6_455]	1.46	0.74
1:B:46:ASP:N	1:D:107:PHE:CA[8_565]	1.46	0.74
1:B:64:ALA:C	1:C:88:VAL:CA[7_555]	1.46	0.74
1:B:86:TYR:CD2	1:C:67:TRP:CE2[7_555]	1.46	0.74
1:B:112:GLY:N	1:C:69:VAL:CG2[7_555]	1.46	0.74
1:B:113:PHE:CE1	1:C:78:ALA:N[7_555]	1.46	0.74
1:B:113:PHE:CE2	1:C:77:ILE:CA[7_555]	1.46	0.74
1:B:122:SER:CB	1:D:21:MET:N[6_455]	1.46	0.74
1:B:125:THR:CB	1:D:105:ARG:NE[8_565]	1.46	0.74
1:B:135:CYS:CB	1:D:86:TYR:CB[8_565]	1.46	0.74
1:B:137:GLU:OE2	1:D:79:GLU:CG[8_565]	1.46	0.74
1:B:138:GLU:N	1:D:80:GLN:CA[8_565]	1.46	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:161:PHE:O	1:C:162:PHE:CA[7_555]	1.46	0.74
1:B:162:PHE:CA	1:C:161:PHE:O[7_555]	1.46	0.74
1:B:162:PHE:CG	1:C:161:PHE:O[7_555]	1.46	0.74
1:D:13:CYS:SG	5:B:537:HOH:O[6_555]	1.46	0.74
1:D:280:ASP:CA	1:D:285:TRP:CD1[7_645]	1.46	0.74
1:A:8:TYR:OH	1:C:128:VAL:CB[8_565]	1.47	0.73
1:A:46:ASP:CG	1:D:132:LEU:CD1[7_555]	1.47	0.73
1:A:59:ALA:N	1:C:103:GLN:N[6_455]	1.47	0.73
1:A:86:TYR:CB	1:C:135:CYS:CB[8_565]	1.47	0.73
1:A:105:ARG:N	1:C:126:ASP:C[8_565]	1.47	0.73
1:A:115:HIS:ND1	1:C:132:LEU:CA[8_565]	1.47	0.73
1:A:130:GLU:CG	1:D:133:PHE:CZ[7_555]	1.47	0.73
1:A:133:PHE:CZ	1:D:130:GLU:CG[7_555]	1.47	0.73
1:A:136:GLY:CA	1:D:219:GLN:OE1[7_555]	1.47	0.73
1:A:138:GLU:C	1:D:220:VAL:CG2[7_555]	1.47	0.73
1:A:138:GLU:OE1	1:D:214:ALA:CA[7_555]	1.47	0.73
1:A:140:ASN:N	1:D:263:PHE:N[7_555]	1.47	0.73
1:A:196:SER:O	1:C:247:TYR:CZ[8_565]	1.47	0.73
1:A:198:PRO:CB	1:C:237:THR:C[8_565]	1.47	0.73
1:A:204:PRO:C	1:C:249:PHE:CE1[8_565]	1.47	0.73
1:A:204:PRO:CB	1:C:249:PHE:CD1[8_565]	1.47	0.73
1:A:214:ALA:CA	1:D:138:GLU:CG[7_555]	1.47	0.73
1:A:218:GLU:N	1:D:142:ILE:CG1[7_555]	1.47	0.73
1:B:17:VAL:CG2	1:C:21:MET:CE[6_455]	1.47	0.73
1:B:19:GLU:C	1:C:61:ARG:O[6_455]	1.47	0.73
1:B:22:VAL:CG2	1:C:12:GLU:CA[6_455]	1.47	0.73
1:B:29:ILE:CG2	1:C:14:ARG:NH2[6_455]	1.47	0.73
1:B:40:ARG:CG	1:C:39:GLY:C[6_455]	1.47	0.73
1:B:48:ARG:CA	1:D:89:VAL:CG1[8_565]	1.47	0.73
1:B:83:LYS:NZ	1:C:149:VAL:CB[7_555]	1.47	0.73
1:B:86:TYR:C	1:C:6:LEU:CD1[7_555]	1.47	0.73
1:B:103:GLN:CB	1:D:58:PRO:C[6_455]	1.47	0.73
1:B:113:PHE:CE1	1:C:78:ALA:CA[7_555]	1.47	0.73
1:B:122:SER:CB	1:D:17:VAL:O[6_455]	1.47	0.73
1:B:127:PRO:O	1:D:117:LEU:N[8_565]	1.47	0.73
1:B:162:PHE:CD1	1:C:165:VAL:CB[7_555]	1.47	0.73
1:B:163:THR:N	1:C:159:GLN:O[7_555]	1.47	0.73
1:B:237:THR:O	1:D:198:PRO:CG[8_565]	1.47	0.73
1:B:238:ILE:CA	1:D:198:PRO:CG[8_565]	1.47	0.73
1:B:245:LYS:O	1:D:156:ALA:N[8_565]	1.47	0.73
1:A:14:ARG:CG	1:C:119:VAL:CA[6_455]	1.48	0.72
1:A:45:LEU:CD1	1:D:131:SER:N[7_555]	1.48	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:46:ASP:O	1:D:129:LEU:CD1[7.555]	1.48	0.72
1:A:67:TRP:NE1	1:C:131:SER:C[8.565]	1.48	0.72
1:A:87:SER:C	1:C:51:ARG:NE[8.565]	1.48	0.72
1:A:89:VAL:N	1:C:48:ARG:N[8.565]	1.48	0.72
1:A:111:ASP:CG	1:C:262:GLY:N[8.565]	1.48	0.72
1:A:135:CYS:O	1:D:219:GLN:OE1[7.555]	1.48	0.72
1:A:150:VAL:C	1:C:217:LYS:O[8.565]	1.48	0.72
1:A:204:PRO:N	1:C:249:PHE:CD1[8.565]	1.48	0.72
1:A:207:VAL:CA	1:C:222:ARG:CG[8.565]	1.48	0.72
1:A:213:GLU:O	1:D:215:LYS:CE[7.555]	1.48	0.72
1:A:216:SER:OG	1:D:136:GLY:O[7.555]	1.48	0.72
1:A:218:GLU:N	1:D:142:ILE:CB[7.555]	1.48	0.72
1:A:219:GLN:CD	1:D:136:GLY:C[7.555]	1.48	0.72
1:B:25:TYR:CD2	1:C:14:ARG:CG[6.455]	1.48	0.72
1:B:63:ALA:CA	1:C:89:VAL:C[7.555]	1.48	0.72
1:B:65:ILE:CA	1:C:87:SER:O[7.555]	1.48	0.72
1:B:80:GLN:CB	1:C:150:VAL:CG2[7.555]	1.48	0.72
1:B:82:GLU:OE2	1:C:9:LEU:CD1[7.555]	1.48	0.72
1:B:111:ASP:CA	1:C:77:ILE:CD1[7.555]	1.48	0.72
1:B:111:ASP:CG	1:C:77:ILE:CD1[7.555]	1.48	0.72
1:B:112:GLY:O	1:C:74:LEU:CD1[7.555]	1.48	0.72
1:B:126:ASP:CA	1:D:105:ARG:N[8.565]	1.48	0.72
1:B:136:GLY:C	1:D:82:GLU:CA[8.565]	1.48	0.72
1:B:158:THR:CG2	1:C:165:VAL:O[7.555]	1.48	0.72
1:B:222:ARG:CB	1:D:207:VAL:CG2[8.565]	1.48	0.72
1:B:222:ARG:CB	1:D:207:VAL:CB[8.565]	1.48	0.72
1:B:234:VAL:N	1:D:203:LYS:NZ[8.565]	1.48	0.72
1:B:238:ILE:CD1	1:D:151:ILE:CG2[8.565]	1.48	0.72
1:B:261:LEU:CG	1:D:111:ASP:CA[8.565]	1.48	0.72
1:B:263:PHE:O	1:D:155:ARG:O[8.565]	1.48	0.72
1:C:173:ARG:CB	1:C:278:PHE:CE1[7.555]	1.48	0.72
1:A:14:ARG:O	1:C:120:GLU:C[6.455]	1.49	0.71
1:A:14:ARG:O	1:C:121:SER:CA[6.455]	1.49	0.71
1:A:79:GLU:C	1:C:137:GLU:CA[8.565]	1.49	0.71
1:A:79:GLU:CG	1:C:137:GLU:CD[8.565]	1.49	0.71
1:A:80:GLN:N	1:C:138:GLU:N[8.565]	1.49	0.71
1:A:109:ASP:C	1:C:212:LEU:CB[8.565]	1.49	0.71
1:A:115:HIS:ND1	1:C:132:LEU:O[8.565]	1.49	0.71
1:A:128:VAL:CG2	1:D:52:ILE:N[7.555]	1.49	0.71
1:A:165:VAL:CG2	1:C:143:PHE:CE2[8.565]	1.49	0.71
1:A:206:MET:CB	1:C:225:ALA:N[8.565]	1.49	0.71
1:A:263:PHE:CB	1:D:140:ASN:OD1[7.555]	1.49	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:3:VAL:CB	1:C:86:TYR:OH[7_555]	1.49	0.71
1:B:6:LEU:CG	1:C:85:CYS:O[7_555]	1.49	0.71
1:B:33:VAL:CG2	1:C:57:GLY:C[6_455]	1.49	0.71
1:B:35:ARG:CZ	1:C:55:ASP:CG[6_455]	1.49	0.71
1:B:59:ALA:O	1:C:22:VAL:CA[6_455]	1.49	0.71
1:B:61:ARG:O	1:C:19:GLU:C[6_455]	1.49	0.71
1:B:88:VAL:C	1:C:64:ALA:O[7_555]	1.49	0.71
1:B:89:VAL:C	1:C:63:ALA:CA[7_555]	1.49	0.71
1:B:103:GLN:N	1:D:59:ALA:N[6_455]	1.49	0.71
1:B:107:PHE:CE1	1:C:115:HIS:ND1[7_555]	1.49	0.71
1:B:110:ASN:ND2	1:C:4:LYS:N[7_555]	1.49	0.71
1:B:110:ASN:ND2	1:C:5:GLN:N[7_555]	1.49	0.71
1:B:113:PHE:CB	1:C:117:LEU:CD1[7_555]	1.49	0.71
1:B:116:GLU:O	1:C:108:ALA:C[7_555]	1.49	0.71
1:B:121:SER:N	1:D:14:ARG:C[6_455]	1.49	0.71
1:B:123:PHE:C	1:D:90:THR:OG1[8_565]	1.49	0.71
1:B:131:SER:O	1:D:67:TRP:CE2[8_565]	1.49	0.71
1:B:133:PHE:CE2	1:D:114:THR:CA[8_565]	1.49	0.71
1:B:136:GLY:N	1:D:81:VAL:O[8_565]	1.49	0.71
1:B:138:GLU:CG	1:D:165:VAL:CG1[8_565]	1.49	0.71
1:B:150:VAL:CG2	1:C:80:GLN:CB[7_555]	1.49	0.71
1:B:194:ALA:O	1:C:80:GLN:CD[7_555]	1.49	0.71
1:B:217:LYS:O	1:D:150:VAL:O[8_565]	1.49	0.71
1:B:218:GLU:CB	1:D:149:VAL:N[8_565]	1.49	0.71
1:B:222:ARG:CD	1:D:207:VAL:CB[8_565]	1.49	0.71
1:B:225:ALA:CA	1:D:206:MET:SD[8_565]	1.49	0.71
1:B:254:PRO:N	1:C:255:ALA:C[6_455]	1.49	0.71
1:B:255:ALA:C	1:C:254:PRO:N[6_455]	1.49	0.71
1:B:265:GLY:N	1:D:157:LYS:C[8_565]	1.49	0.71
1:C:62:LEU:O	5:B:579:HOH:O[7_555]	1.49	0.71
1:D:245:LYS:CE	1:D:279:TYR:OH[7_645]	1.49	0.71
1:A:26:GLN:O	1:D:124:PRO:CA[7_555]	1.50	0.70
1:A:45:LEU:N	1:D:129:LEU:CB[7_555]	1.50	0.70
1:A:79:GLU:C	1:C:137:GLU:CG[8_565]	1.50	0.70
1:A:85:CYS:N	1:C:144:GLY:CA[8_565]	1.50	0.70
1:A:110:ASN:N	1:C:212:LEU:C[8_565]	1.50	0.70
1:A:110:ASN:CB	1:C:211:MET:C[8_565]	1.50	0.70
1:A:110:ASN:CG	1:C:212:LEU:N[8_565]	1.50	0.70
1:A:126:ASP:N	1:D:31:ALA:CA[7_555]	1.50	0.70
1:A:126:ASP:C	1:D:31:ALA:CB[7_555]	1.50	0.70
1:A:152:VAL:O	1:C:248:SER:C[8_565]	1.50	0.70
1:A:153:ALA:CA	1:C:248:SER:C[8_565]	1.50	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:158:THR:C	1:C:264:GLY:CA[8_565]	1.50	0.70
1:A:162:PHE:CD2	1:C:215:LYS:O[8_565]	1.50	0.70
1:A:195:LEU:N	1:C:217:LYS:CB[8_565]	1.50	0.70
1:A:198:PRO:CG	1:C:238:ILE:N[8_565]	1.50	0.70
1:A:203:LYS:CA	1:C:224:PHE:CG[8_565]	1.50	0.70
1:A:204:PRO:CD	1:C:249:PHE:CB[8_565]	1.50	0.70
1:A:206:MET:CE	1:C:225:ALA:CB[8_565]	1.50	0.70
1:A:214:ALA:CA	1:D:138:GLU:OE1[7_555]	1.50	0.70
1:B:6:LEU:CD1	1:C:86:TYR:C[7_555]	1.50	0.70
1:B:20:GLN:O	1:C:60:ASN:CA[6_455]	1.50	0.70
1:B:25:TYR:O	1:C:58:PRO:O[6_455]	1.50	0.70
1:B:58:PRO:O	1:C:25:TYR:O[6_455]	1.50	0.70
1:B:68:ASN:O	1:C:110:ASN:CG[7_555]	1.50	0.70
1:B:77:ILE:C	1:C:113:PHE:CE2[7_555]	1.50	0.70
1:B:110:ASN:CB	1:C:4:LYS:N[7_555]	1.50	0.70
1:B:118:TYR:C	1:D:14:ARG:NE[6_455]	1.50	0.70
1:B:124:PRO:O	1:D:90:THR:CA[8_565]	1.50	0.70
1:B:134:VAL:CB	1:D:161:PHE:CE2[8_565]	1.50	0.70
1:B:137:GLU:CG	1:D:79:GLU:C[8_565]	1.50	0.70
1:B:157:LYS:N	1:C:167:GLY:O[7_555]	1.50	0.70
1:B:163:THR:O	1:C:159:GLN:C[7_555]	1.50	0.70
1:B:168:PHE:O	1:C:160:SER:CB[7_555]	1.50	0.70
1:B:217:LYS:O	1:D:150:VAL:C[8_565]	1.50	0.70
1:B:247:TYR:O	1:D:152:VAL:CG2[8_565]	1.50	0.70
1:B:248:SER:C	1:D:153:ALA:CA[8_565]	1.50	0.70
1:B:249:PHE:CD1	1:D:204:PRO:CD[8_565]	1.50	0.70
1:B:249:PHE:CD2	1:D:204:PRO:CB[8_565]	1.50	0.70
1:C:17:VAL:CA	5:B:558:HOH:O[6_555]	1.50	0.70
1:A:13:CYS:O	1:C:121:SER:OG[6_455]	1.51	0.69
1:A:58:PRO:C	1:C:103:GLN:CB[6_455]	1.51	0.69
1:A:85:CYS:O	1:C:145:LEU:CA[8_565]	1.51	0.69
1:A:107:PHE:C	1:C:45:LEU:CA[8_565]	1.51	0.69
1:A:112:GLY:C	1:C:29:ILE:O[8_565]	1.51	0.69
1:A:115:HIS:CE1	1:C:132:LEU:C[8_565]	1.51	0.69
1:A:142:ILE:CB	1:D:218:GLU:CG[7_555]	1.51	0.69
1:A:149:VAL:N	1:C:218:GLU:CB[8_565]	1.51	0.69
1:A:150:VAL:CB	1:C:219:GLN:N[8_565]	1.51	0.69
1:A:158:THR:CG2	1:C:263:PHE:CB[8_565]	1.51	0.69
1:A:206:MET:SD	1:C:225:ALA:CA[8_565]	1.51	0.69
1:A:207:VAL:N	1:C:222:ARG:C[8_565]	1.51	0.69
1:A:207:VAL:N	1:C:222:ARG:CB[8_565]	1.51	0.69
1:A:207:VAL:CG2	1:C:222:ARG:CB[8_565]	1.51	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:214:ALA:O	1:D:138:GLU:CG[7_555]	1.51	0.69
1:B:31:ALA:CA	1:D:114:THR:OG1[8_565]	1.51	0.69
1:B:45:LEU:O	1:D:107:PHE:CB[8_565]	1.51	0.69
1:B:54:LEU:CB	1:C:18:LEU:CB[6_455]	1.51	0.69
1:B:55:ASP:CB	1:C:35:ARG:CZ[6_455]	1.51	0.69
1:B:79:GLU:OE1	1:C:208:HIS:CA[7_555]	1.51	0.69
1:B:87:SER:N	1:C:8:TYR:O[7_555]	1.51	0.69
1:B:107:PHE:C	1:C:116:GLU:CA[7_555]	1.51	0.69
1:B:107:PHE:CE1	1:C:67:TRP:NE1[7_555]	1.51	0.69
1:B:108:ALA:O	1:C:67:TRP:CA[7_555]	1.51	0.69
1:B:110:ASN:CG	1:C:68:ASN:O[7_555]	1.51	0.69
1:B:121:SER:CA	1:D:18:LEU:N[6_455]	1.51	0.69
1:B:129:LEU:N	1:D:116:GLU:CA[8_565]	1.51	0.69
1:B:134:VAL:CA	1:D:161:PHE:CE2[8_565]	1.51	0.69
1:B:140:ASN:ND2	1:D:164:ASP:O[8_565]	1.51	0.69
1:B:149:VAL:O	1:C:79:GLU:CG[7_555]	1.51	0.69
1:B:160:SER:CB	1:C:168:PHE:O[7_555]	1.51	0.69
1:B:208:HIS:C	1:C:79:GLU:OE1[7_555]	1.51	0.69
1:B:222:ARG:CB	1:D:207:VAL:N[8_565]	1.51	0.69
1:B:222:ARG:NH2	1:D:62:LEU:CD2[8_565]	1.51	0.69
1:B:223:ALA:CA	1:D:206:MET:N[8_565]	1.51	0.69
1:A:14:ARG:CG	1:C:119:VAL:O[6_455]	1.52	0.68
1:A:26:GLN:C	1:D:125:THR:N[7_555]	1.52	0.68
1:A:31:ALA:CB	1:D:126:ASP:C[7_555]	1.52	0.68
1:A:37:GLU:CG	1:C:37:GLU:OE1[6_455]	1.52	0.68
1:A:142:ILE:CB	1:D:218:GLU:CD[7_555]	1.52	0.68
1:A:143:PHE:CD2	1:D:216:SER:CA[7_555]	1.52	0.68
1:A:160:SER:OG	1:C:266:GLN:CA[8_565]	1.52	0.68
1:A:198:PRO:CA	1:C:238:ILE:N[8_565]	1.52	0.68
1:A:207:VAL:CA	1:C:222:ARG:CB[8_565]	1.52	0.68
1:A:247:TYR:C	1:D:139:ALA:O[7_555]	1.52	0.68
1:B:77:ILE:CA	1:C:113:PHE:CE2[7_555]	1.52	0.68
1:B:79:GLU:CG	1:C:149:VAL:O[7_555]	1.52	0.68
1:B:104:VAL:CA	1:D:58:PRO:CB[6_455]	1.52	0.68
1:B:111:ASP:CB	1:C:77:ILE:CG1[7_555]	1.52	0.68
1:B:144:GLY:CA	1:D:85:CYS:N[8_565]	1.52	0.68
1:B:217:LYS:CD	1:D:195:LEU:CA[8_565]	1.52	0.68
1:B:238:ILE:N	1:D:198:PRO:CA[8_565]	1.52	0.68
1:B:238:ILE:CG2	1:D:197:ALA:CA[8_565]	1.52	0.68
1:B:245:LYS:O	1:D:156:ALA:CB[8_565]	1.52	0.68
1:B:255:ALA:C	1:C:254:PRO:CA[6_455]	1.52	0.68
1:B:261:LEU:CD1	1:D:111:ASP:CB[8_565]	1.52	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:285:TRP:CH2	5:A:566:HOH:O[8.655]	1.52	0.68
1:A:67:TRP:CE2	1:C:131:SER:O[8.565]	1.53	0.67
1:A:82:GLU:N	1:C:136:GLY:CA[8.565]	1.53	0.67
1:A:90:THR:OG1	1:C:124:PRO:C[8.565]	1.53	0.67
1:A:118:TYR:CA	1:C:127:PRO:CB[8.565]	1.53	0.67
1:A:161:PHE:CD1	1:C:134:VAL:CB[8.565]	1.53	0.67
1:B:22:VAL:CA	1:C:59:ALA:O[6.455]	1.53	0.67
1:B:40:ARG:CD	1:C:39:GLY:N[6.455]	1.53	0.67
1:B:59:ALA:O	1:C:23:VAL:N[6.455]	1.53	0.67
1:B:79:GLU:OE1	1:C:207:VAL:C[7.555]	1.53	0.67
1:B:80:GLN:NE2	1:C:150:VAL:N[7.555]	1.53	0.67
1:B:106:GLN:CB	1:C:114:THR:CG2[7.555]	1.53	0.67
1:B:115:HIS:CD2	1:C:107:PHE:CE2[7.555]	1.53	0.67
1:B:138:GLU:N	1:D:80:GLN:N[8.565]	1.53	0.67
1:B:144:GLY:C	1:D:85:CYS:O[8.565]	1.53	0.67
1:B:195:LEU:CG	1:C:164:ASP:O[7.555]	1.53	0.67
1:B:195:LEU:CD1	1:C:164:ASP:C[7.555]	1.53	0.67
1:B:211:MET:O	1:D:110:ASN:OD1[8.565]	1.53	0.67
1:B:220:VAL:C	1:D:151:ILE:N[8.565]	1.53	0.67
1:B:248:SER:C	1:D:152:VAL:O[8.565]	1.53	0.67
1:A:19:GLU:N	1:C:123:PHE:N[6.455]	1.54	0.66
1:A:26:GLN:CB	1:D:124:PRO:CB[7.555]	1.54	0.66
1:A:80:GLN:CA	1:C:138:GLU:N[8.565]	1.54	0.66
1:A:81:VAL:N	1:C:138:GLU:N[8.565]	1.54	0.66
1:A:85:CYS:CA	1:C:144:GLY:C[8.565]	1.54	0.66
1:A:117:LEU:C	1:C:127:PRO:CA[8.565]	1.54	0.66
1:A:129:LEU:CD1	1:D:46:ASP:CA[7.555]	1.54	0.66
1:A:130:GLU:OE2	1:D:31:ALA:N[7.555]	1.54	0.66
1:A:140:ASN:OD1	1:D:263:PHE:C[7.555]	1.54	0.66
1:A:140:ASN:OD1	1:D:263:PHE:CB[7.555]	1.54	0.66
1:A:142:ILE:CD1	1:D:218:GLU:O[7.555]	1.54	0.66
1:A:155:ARG:NH2	1:C:240:GLN:OE1[8.565]	1.54	0.66
1:A:214:ALA:CA	1:D:138:GLU:OE2[7.555]	1.54	0.66
1:A:216:SER:CA	1:D:143:PHE:CD2[7.555]	1.54	0.66
1:B:13:CYS:O	1:C:54:LEU:CD1[6.455]	1.54	0.66
1:B:14:ARG:CA	1:C:25:TYR:CD2[6.455]	1.54	0.66
1:B:23:VAL:N	1:C:59:ALA:O[6.455]	1.54	0.66
1:B:25:TYR:CA	1:C:58:PRO:C[6.455]	1.54	0.66
1:B:39:GLY:N	1:C:40:ARG:NE[6.455]	1.54	0.66
1:B:47:GLY:N	1:D:89:VAL:N[8.565]	1.54	0.66
1:B:51:ARG:NE	1:D:87:SER:N[8.565]	1.54	0.66
1:B:77:ILE:CD1	1:C:111:ASP:OD2[7.555]	1.54	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:83:LYS:CD	1:C:149:VAL:N[7_555]	1.54	0.66
1:B:87:SER:O	1:C:65:ILE:CA[7_555]	1.54	0.66
1:B:107:PHE:CA	1:C:65:ILE:O[7_555]	1.54	0.66
1:B:110:ASN:CG	1:C:4:LYS:N[7_555]	1.54	0.66
1:B:121:SER:CA	1:D:14:ARG:O[6_455]	1.54	0.66
1:B:121:SER:C	1:D:17:VAL:C[6_455]	1.54	0.66
1:B:122:SER:N	1:D:18:LEU:CA[6_455]	1.54	0.66
1:B:122:SER:OG	1:D:21:MET:N[6_455]	1.54	0.66
1:B:128:VAL:CB	1:D:116:GLU:OE1[8_565]	1.54	0.66
1:B:137:GLU:CA	1:D:79:GLU:O[8_565]	1.54	0.66
1:B:204:PRO:O	1:C:72:SER:O[7_555]	1.54	0.66
1:B:205:GLY:O	1:C:75:ALA:N[7_555]	1.54	0.66
1:B:213:GLU:N	1:D:86:TYR:OH[8_565]	1.54	0.66
1:B:219:GLN:CA	1:D:150:VAL:CG1[8_565]	1.54	0.66
1:B:263:PHE:C	1:D:158:THR:CB[8_565]	1.54	0.66
1:D:13:CYS:CA	5:B:537:HOH:O[6_555]	1.54	0.66
1:D:199:ALA:CA	5:B:580:HOH:O[8_655]	1.54	0.66
1:A:14:ARG:CD	1:C:119:VAL:N[6_455]	1.55	0.65
1:A:25:TYR:C	1:D:125:THR:CB[7_555]	1.55	0.65
1:A:85:CYS:C	1:C:144:GLY:CA[8_565]	1.55	0.65
1:A:89:VAL:CA	1:C:47:GLY:O[8_565]	1.55	0.65
1:A:114:THR:CA	1:C:133:PHE:CE2[8_565]	1.55	0.65
1:A:116:GLU:CA	1:C:129:LEU:N[8_565]	1.55	0.65
1:A:124:PRO:CB	1:D:26:GLN:CB[7_555]	1.55	0.65
1:A:127:PRO:N	1:D:43:VAL:CG1[7_555]	1.55	0.65
1:A:129:LEU:CB	1:D:45:LEU:N[7_555]	1.55	0.65
1:A:136:GLY:C	1:D:219:GLN:CD[7_555]	1.55	0.65
1:A:137:GLU:C	1:D:219:GLN:CB[7_555]	1.55	0.65
1:A:137:GLU:CG	1:D:220:VAL:N[7_555]	1.55	0.65
1:A:141:GLY:C	1:D:217:LYS:C[7_555]	1.55	0.65
1:A:195:LEU:C	1:C:217:LYS:CG[8_565]	1.55	0.65
1:A:219:GLN:OE1	1:D:136:GLY:C[7_555]	1.55	0.65
1:A:219:GLN:NE2	1:D:135:CYS:O[7_555]	1.55	0.65
1:B:19:GLU:CA	1:C:12:GLU:N[6_455]	1.55	0.65
1:B:29:ILE:CG2	1:D:112:GLY:C[8_565]	1.55	0.65
1:B:39:GLY:N	1:C:40:ARG:CD[6_455]	1.55	0.65
1:B:45:LEU:CD2	1:D:108:ALA:CA[8_565]	1.55	0.65
1:B:47:GLY:C	1:D:89:VAL:C[8_565]	1.55	0.65
1:B:51:ARG:NE	1:D:87:SER:C[8_565]	1.55	0.65
1:B:82:GLU:OE2	1:C:9:LEU:CD2[7_555]	1.55	0.65
1:B:86:TYR:CE2	1:C:67:TRP:CD2[7_555]	1.55	0.65
1:B:86:TYR:OH	1:C:3:VAL:CB[7_555]	1.55	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:114:THR:OG1	1:C:105:ARG:C[7_555]	1.55	0.65
1:B:126:ASP:C	1:D:105:ARG:N[8_565]	1.55	0.65
1:B:135:CYS:O	1:D:81:VAL:CG1[8_565]	1.55	0.65
1:B:140:ASN:CG	1:D:165:VAL:N[8_565]	1.55	0.65
1:B:148:LEU:CG	1:C:82:GLU:CB[7_555]	1.55	0.65
1:B:148:LEU:CD1	1:C:82:GLU:CB[7_555]	1.55	0.65
1:B:160:SER:OG	1:C:168:PHE:O[7_555]	1.55	0.65
1:B:217:LYS:CB	1:D:194:ALA:C[8_565]	1.55	0.65
1:B:219:GLN:N	1:D:150:VAL:CB[8_565]	1.55	0.65
1:B:221:ASP:OD1	1:D:151:ILE:CD1[8_565]	1.55	0.65
1:B:263:PHE:CG	1:D:195:LEU:CD1[8_565]	1.55	0.65
1:C:21:MET:N	5:B:559:HOH:O[6_555]	1.55	0.65
1:D:15:ALA:O	5:B:548:HOH:O[6_555]	1.55	0.65
1:D:280:ASP:OD1	1:D:284:ILE:C[7_645]	1.55	0.65
1:A:14:ARG:NH2	1:C:118:TYR:O[6_455]	1.56	0.64
1:A:46:ASP:CA	1:D:129:LEU:CD1[7_555]	1.56	0.64
1:A:58:PRO:CB	1:C:104:VAL:CA[6_455]	1.56	0.64
1:A:104:VAL:O	1:C:125:THR:C[8_565]	1.56	0.64
1:A:111:ASP:C	1:C:261:LEU:CD1[8_565]	1.56	0.64
1:A:115:HIS:CD2	1:C:133:PHE:CA[8_565]	1.56	0.64
1:A:140:ASN:C	1:D:263:PHE:CD2[7_555]	1.56	0.64
1:A:155:ARG:O	1:C:263:PHE:O[8_565]	1.56	0.64
1:A:157:LYS:C	1:C:265:GLY:N[8_565]	1.56	0.64
1:A:203:LYS:N	1:C:224:PHE:CD1[8_565]	1.56	0.64
1:B:12:GLU:N	1:C:19:GLU:CA[6_455]	1.56	0.64
1:B:21:MET:CE	1:C:17:VAL:CB[6_455]	1.56	0.64
1:B:33:VAL:CG2	1:C:58:PRO:CD[6_455]	1.56	0.64
1:B:122:SER:OG	1:D:21:MET:CB[6_455]	1.56	0.64
1:B:140:ASN:ND2	1:D:164:ASP:CA[8_565]	1.56	0.64
1:B:144:GLY:O	1:D:85:CYS:C[8_565]	1.56	0.64
1:B:192:THR:C	1:C:83:LYS:O[7_555]	1.56	0.64
1:B:222:ARG:CD	1:D:207:VAL:CG2[8_565]	1.56	0.64
1:B:224:PHE:CE2	1:D:202:LEU:CA[8_565]	1.56	0.64
1:B:225:ALA:N	1:D:206:MET:CB[8_565]	1.56	0.64
1:B:234:VAL:CG2	1:D:203:LYS:NZ[8_565]	1.56	0.64
1:B:264:GLY:N	1:D:158:THR:O[8_565]	1.56	0.64
1:D:158:THR:O	5:B:508:HOH:O[8_655]	1.56	0.64
1:D:161:PHE:CA	5:B:555:HOH:O[8_655]	1.56	0.64
1:A:13:CYS:O	1:C:101:ALA:C[6_455]	1.57	0.63
1:A:17:VAL:O	1:C:122:SER:CB[6_455]	1.57	0.63
1:A:18:LEU:N	1:C:121:SER:CA[6_455]	1.57	0.63
1:A:19:GLU:N	1:C:122:SER:O[6_455]	1.57	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:78:ALA:C	1:C:137:GLU:O[8_565]	1.57	0.63
1:A:79:GLU:C	1:C:137:GLU:CB[8_565]	1.57	0.63
1:A:111:ASP:CA	1:C:261:LEU:CB[8_565]	1.57	0.63
1:A:111:ASP:OD1	1:C:262:GLY:N[8_565]	1.57	0.63
1:A:115:HIS:O	1:C:129:LEU:CA[8_565]	1.57	0.63
1:A:129:LEU:O	1:D:45:LEU:C[7_555]	1.57	0.63
1:A:131:SER:C	1:D:135:CYS:CB[7_555]	1.57	0.63
1:A:142:ILE:N	1:D:217:LYS:C[7_555]	1.57	0.63
1:A:155:ARG:N	1:C:246:VAL:O[8_565]	1.57	0.63
1:A:155:ARG:CB	1:C:247:TYR:CA[8_565]	1.57	0.63
1:A:207:VAL:N	1:C:222:ARG:N[8_565]	1.57	0.63
1:A:207:VAL:CB	1:C:222:ARG:CD[8_565]	1.57	0.63
1:A:207:VAL:CG1	1:C:222:ARG:CG[8_565]	1.57	0.63
1:A:217:LYS:C	1:D:141:GLY:C[7_555]	1.57	0.63
1:A:218:GLU:C	1:D:142:ILE:CG1[7_555]	1.57	0.63
1:B:4:LYS:N	1:C:110:ASN:CG[7_555]	1.57	0.63
1:B:60:ASN:CA	1:C:20:GLN:O[6_455]	1.57	0.63
1:B:80:GLN:N	1:C:150:VAL:CB[7_555]	1.57	0.63
1:B:119:VAL:CA	1:D:14:ARG:CG[6_455]	1.57	0.63
1:B:119:VAL:O	1:D:14:ARG:CG[6_455]	1.57	0.63
1:B:135:CYS:CA	1:D:86:TYR:CB[8_565]	1.57	0.63
1:B:149:VAL:CG2	1:C:83:LYS:CD[7_555]	1.57	0.63
1:B:160:SER:N	1:C:163:THR:CA[7_555]	1.57	0.63
1:B:224:PHE:CD1	1:D:203:LYS:N[8_565]	1.57	0.63
1:B:264:GLY:CA	1:D:158:THR:C[8_565]	1.57	0.63
1:A:14:ARG:CZ	1:C:119:VAL:N[6_455]	1.58	0.62
1:A:84:ALA:CA	1:C:143:PHE:C[8_565]	1.58	0.62
1:A:86:TYR:OH	1:C:213:GLU:N[8_565]	1.58	0.62
1:A:89:VAL:C	1:C:47:GLY:C[8_565]	1.58	0.62
1:A:90:THR:OG1	1:C:123:PHE:C[8_565]	1.58	0.62
1:A:107:PHE:CA	1:C:46:ASP:N[8_565]	1.58	0.62
1:A:107:PHE:CB	1:C:45:LEU:O[8_565]	1.58	0.62
1:A:108:ALA:CB	1:C:45:LEU:CG[8_565]	1.58	0.62
1:A:111:ASP:C	1:C:29:ILE:CD1[8_565]	1.58	0.62
1:A:112:GLY:C	1:C:29:ILE:CG2[8_565]	1.58	0.62
1:A:152:VAL:C	1:C:248:SER:CA[8_565]	1.58	0.62
1:A:161:PHE:CE2	1:C:134:VAL:CB[8_565]	1.58	0.62
1:A:215:LYS:C	1:D:143:PHE:CG[7_555]	1.58	0.62
1:A:217:LYS:C	1:D:142:ILE:N[7_555]	1.58	0.62
1:B:15:ALA:CB	1:C:52:ILE:CA[6_455]	1.58	0.62
1:B:69:VAL:CG2	1:C:112:GLY:N[7_555]	1.58	0.62
1:B:83:LYS:CD	1:C:149:VAL:CG2[7_555]	1.58	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:102:ALA:N	1:D:13:CYS:O[6_455]	1.58	0.62
1:B:105:ARG:O	1:C:114:THR:OG1[7_555]	1.58	0.62
1:B:118:TYR:C	1:D:14:ARG:NH1[6_455]	1.58	0.62
1:B:121:SER:C	1:D:18:LEU:CA[6_455]	1.58	0.62
1:B:123:PHE:CA	1:D:19:GLU:C[6_455]	1.58	0.62
1:B:129:LEU:C	1:D:116:GLU:N[8_565]	1.58	0.62
1:B:162:PHE:CE2	1:C:161:PHE:CE1[7_555]	1.58	0.62
1:B:164:ASP:OD1	1:C:159:GLN:CG[7_555]	1.58	0.62
1:B:167:GLY:O	1:C:157:LYS:CB[7_555]	1.58	0.62
1:B:210:LEU:CD2	1:C:16:ASP:OD2[6_455]	1.58	0.62
1:B:216:SER:CB	1:D:193:VAL:CG1[8_565]	1.58	0.62
1:B:249:PHE:CB	1:D:204:PRO:CD[8_565]	1.58	0.62
1:B:257:PHE:CE2	1:C:20:GLN:CD[6_455]	1.58	0.62
1:C:24:VAL:CB	5:B:560:HOH:O[6_555]	1.58	0.62
1:D:133:PHE:CD2	5:A:561:HOH:O[7_555]	1.58	0.62
1:D:222:ARG:NH1	4:A:303:SO4:O1[7_555]	1.58	0.62
1:A:13:CYS:C	1:C:102:ALA:N[6_455]	1.59	0.61
1:A:13:CYS:O	1:C:102:ALA:N[6_455]	1.59	0.61
1:A:17:VAL:C	1:C:121:SER:C[6_455]	1.59	0.61
1:A:18:LEU:N	1:C:121:SER:O[6_455]	1.59	0.61
1:A:18:LEU:CA	1:C:121:SER:C[6_455]	1.59	0.61
1:A:90:THR:CB	1:C:124:PRO:C[8_565]	1.59	0.61
1:A:111:ASP:CB	1:C:261:LEU:CD1[8_565]	1.59	0.61
1:A:113:PHE:C	1:C:133:PHE:CE2[8_565]	1.59	0.61
1:A:153:ALA:N	1:C:249:PHE:N[8_565]	1.59	0.61
1:A:155:ARG:CB	1:C:247:TYR:CB[8_565]	1.59	0.61
1:A:158:THR:O	1:C:264:GLY:N[8_565]	1.59	0.61
1:A:165:VAL:N	1:C:140:ASN:CG[8_565]	1.59	0.61
1:A:202:LEU:C	1:C:224:PHE:CZ[8_565]	1.59	0.61
1:A:206:MET:N	1:C:223:ALA:C[8_565]	1.59	0.61
1:A:207:VAL:CB	1:C:222:ARG:CB[8_565]	1.59	0.61
1:B:5:GLN:OE1	1:D:82:GLU:C[8_565]	1.59	0.61
1:B:14:ARG:CA	1:C:25:TYR:CE2[6_455]	1.59	0.61
1:B:25:TYR:N	1:C:59:ALA:CA[6_455]	1.59	0.61
1:B:45:LEU:O	1:D:107:PHE:N[8_565]	1.59	0.61
1:B:55:ASP:C	1:C:41:ALA:CB[6_455]	1.59	0.61
1:B:58:PRO:C	1:C:25:TYR:CA[6_455]	1.59	0.61
1:B:69:VAL:CB	1:C:111:ASP:N[7_555]	1.59	0.61
1:B:75:ALA:CA	1:C:205:GLY:C[7_555]	1.59	0.61
1:B:114:THR:OG1	1:C:105:ARG:N[7_555]	1.59	0.61
1:B:123:PHE:N	1:D:20:GLN:N[6_455]	1.59	0.61
1:B:128:VAL:CG2	1:D:116:GLU:OE1[8_565]	1.59	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:132:LEU:C	1:D:115:HIS:NE2[8_565]	1.59	0.61
1:B:162:PHE:CE1	1:C:165:VAL:CG1[7_555]	1.59	0.61
1:B:163:THR:O	1:C:159:GLN:CB[7_555]	1.59	0.61
1:B:223:ALA:C	1:D:206:MET:N[8_565]	1.59	0.61
1:C:206:MET:CB	3:B:302:P6G:C15[6_555]	1.59	0.61
1:D:281:ALA:CA	1:D:284:ILE:O[7_645]	1.59	0.61
1:A:19:GLU:CB	1:C:123:PHE:CD2[6_455]	1.60	0.60
1:A:58:PRO:CA	1:C:103:GLN:O[6_455]	1.60	0.60
1:A:58:PRO:CA	1:C:103:GLN:CA[6_455]	1.60	0.60
1:A:65:ILE:N	1:C:132:LEU:CD1[8_565]	1.60	0.60
1:A:105:ARG:CA	1:C:126:ASP:CA[8_565]	1.60	0.60
1:A:106:GLN:CG	1:C:129:LEU:CB[8_565]	1.60	0.60
1:A:125:THR:CG2	1:D:26:GLN:N[7_555]	1.60	0.60
1:A:150:VAL:CB	1:C:218:GLU:C[8_565]	1.60	0.60
1:A:153:ALA:O	1:C:248:SER:OG[8_565]	1.60	0.60
1:A:159:GLN:N	1:C:264:GLY:C[8_565]	1.60	0.60
1:A:188:GLN:OE1	1:D:217:LYS:CB[7_555]	1.60	0.60
1:A:216:SER:CB	1:D:142:ILE:C[7_555]	1.60	0.60
1:A:216:SER:CB	1:D:143:PHE:CA[7_555]	1.60	0.60
1:A:218:GLU:N	1:D:142:ILE:CA[7_555]	1.60	0.60
1:B:14:ARG:CD	1:C:25:TYR:CD1[6_455]	1.60	0.60
1:B:17:VAL:CB	1:C:21:MET:CE[6_455]	1.60	0.60
1:B:38:GLY:N	1:C:36:ASP:OD2[6_455]	1.60	0.60
1:B:59:ALA:CA	1:C:25:TYR:N[6_455]	1.60	0.60
1:B:96:ALA:C	1:D:56:PRO:O[6_455]	1.60	0.60
1:B:124:PRO:CB	1:D:90:THR:CB[8_565]	1.60	0.60
1:B:136:GLY:O	1:D:82:GLU:N[8_565]	1.60	0.60
1:B:143:PHE:C	1:D:84:ALA:CA[8_565]	1.60	0.60
1:B:144:GLY:CA	1:D:85:CYS:C[8_565]	1.60	0.60
1:B:148:LEU:CA	1:C:83:LYS:CA[7_555]	1.60	0.60
1:B:150:VAL:CB	1:C:80:GLN:N[7_555]	1.60	0.60
1:B:158:THR:O	1:C:162:PHE:O[7_555]	1.60	0.60
1:B:159:GLN:CB	1:C:163:THR:O[7_555]	1.60	0.60
1:B:169:GLY:N	1:C:160:SER:OG[7_555]	1.60	0.60
1:B:205:GLY:C	1:C:75:ALA:CA[7_555]	1.60	0.60
1:B:223:ALA:N	1:D:206:MET:N[8_565]	1.60	0.60
1:B:249:PHE:CD1	1:D:204:PRO:CG[8_565]	1.60	0.60
1:B:253:ALA:C	1:C:254:PRO:O[6_455]	1.60	0.60
1:A:32:VAL:CG1	1:D:44:ARG:NH2[7_555]	1.61	0.59
1:A:85:CYS:O	1:C:144:GLY:C[8_565]	1.61	0.59
1:A:124:PRO:CG	1:D:26:GLN:CG[7_555]	1.61	0.59
1:A:138:GLU:CD	1:D:214:ALA:N[7_555]	1.61	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:142:ILE:CB	1:D:218:GLU:N[7_555]	1.61	0.59
1:A:142:ILE:CB	1:D:218:GLU:CB[7_555]	1.61	0.59
1:A:143:PHE:CD2	1:D:216:SER:N[7_555]	1.61	0.59
1:A:143:PHE:CZ	1:D:263:PHE:CD1[7_555]	1.61	0.59
1:A:204:PRO:CD	1:C:249:PHE:CD1[8_565]	1.61	0.59
1:A:206:MET:N	1:C:223:ALA:CA[8_565]	1.61	0.59
1:A:219:GLN:CB	1:D:137:GLU:CB[7_555]	1.61	0.59
1:B:5:GLN:N	1:C:110:ASN:ND2[7_555]	1.61	0.59
1:B:41:ALA:CB	1:C:55:ASP:C[6_455]	1.61	0.59
1:B:52:ILE:CA	1:C:15:ALA:CB[6_455]	1.61	0.59
1:B:67:TRP:CE3	1:C:86:TYR:CE2[7_555]	1.61	0.59
1:B:105:ARG:C	1:C:114:THR:OG1[7_555]	1.61	0.59
1:B:120:GLU:CG	1:D:16:ASP:CB[6_455]	1.61	0.59
1:B:121:SER:CB	1:D:18:LEU:CB[6_455]	1.61	0.59
1:B:123:PHE:N	1:D:19:GLU:N[6_455]	1.61	0.59
1:B:138:GLU:O	1:D:80:GLN:CB[8_565]	1.61	0.59
1:B:138:GLU:CB	1:D:165:VAL:CG1[8_565]	1.61	0.59
1:B:161:PHE:N	1:C:162:PHE:O[7_555]	1.61	0.59
1:B:218:GLU:N	1:D:150:VAL:N[8_565]	1.61	0.59
1:B:224:PHE:C	1:D:206:MET:CG[8_565]	1.61	0.59
1:B:225:ALA:CB	1:D:206:MET:CE[8_565]	1.61	0.59
1:B:247:TYR:CE1	1:D:197:ALA:N[8_565]	1.61	0.59
1:B:247:TYR:CE2	1:D:196:SER:C[8_565]	1.61	0.59
1:B:247:TYR:OH	1:D:196:SER:CA[8_565]	1.61	0.59
1:B:249:PHE:N	1:D:153:ALA:N[8_565]	1.61	0.59
1:B:249:PHE:CD1	1:D:204:PRO:CB[8_565]	1.61	0.59
1:D:142:ILE:O	5:A:567:HOH:O[7_555]	1.61	0.59
1:A:26:GLN:C	1:D:124:PRO:CA[7_555]	1.62	0.58
1:A:45:LEU:CA	1:D:129:LEU:CB[7_555]	1.62	0.58
1:A:45:LEU:C	1:D:129:LEU:CA[7_555]	1.62	0.58
1:A:46:ASP:C	1:D:129:LEU:CD1[7_555]	1.62	0.58
1:A:108:ALA:CA	1:C:45:LEU:CD2[8_565]	1.62	0.58
1:A:114:THR:OG1	1:C:31:ALA:CA[8_565]	1.62	0.58
1:A:116:GLU:N	1:C:129:LEU:C[8_565]	1.62	0.58
1:A:118:TYR:CB	1:C:127:PRO:CB[8_565]	1.62	0.58
1:A:138:GLU:CG	1:D:214:ALA:O[7_555]	1.62	0.58
1:A:141:GLY:O	1:D:216:SER:C[7_555]	1.62	0.58
1:A:150:VAL:N	1:C:218:GLU:N[8_565]	1.62	0.58
1:A:151:ILE:CG2	1:C:238:ILE:CD1[8_565]	1.62	0.58
1:A:161:PHE:CE2	1:C:134:VAL:CA[8_565]	1.62	0.58
1:A:164:ASP:OD2	1:C:267:VAL:CB[8_565]	1.62	0.58
1:A:195:LEU:O	1:C:217:LYS:CE[8_565]	1.62	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:204:PRO:CA	1:C:249:PHE:CD1[8_565]	1.62	0.58
1:B:14:ARG:CG	1:C:25:TYR:CD1[6_455]	1.62	0.58
1:B:20:GLN:O	1:C:61:ARG:N[6_455]	1.62	0.58
1:B:22:VAL:N	1:C:12:GLU:C[6_455]	1.62	0.58
1:B:51:ARG:CD	1:D:87:SER:OG[8_565]	1.62	0.58
1:B:59:ALA:C	1:C:22:VAL:C[6_455]	1.62	0.58
1:B:64:ALA:CA	1:C:106:GLN:O[7_555]	1.62	0.58
1:B:76:ALA:N	1:C:205:GLY:CA[7_555]	1.62	0.58
1:B:79:GLU:CA	1:C:150:VAL:CG1[7_555]	1.62	0.58
1:B:88:VAL:N	1:C:64:ALA:O[7_555]	1.62	0.58
1:B:90:THR:O	1:C:12:GLU:OE2[7_555]	1.62	0.58
1:B:106:GLN:N	1:C:114:THR:CG2[7_555]	1.62	0.58
1:B:114:THR:N	1:C:105:ARG:O[7_555]	1.62	0.58
1:B:120:GLU:C	1:D:14:ARG:O[6_455]	1.62	0.58
1:B:121:SER:O	1:D:18:LEU:N[6_455]	1.62	0.58
1:B:124:PRO:CG	1:D:90:THR:CB[8_565]	1.62	0.58
1:B:126:ASP:CA	1:D:104:VAL:C[8_565]	1.62	0.58
1:B:137:GLU:CD	1:D:79:GLU:CA[8_565]	1.62	0.58
1:B:138:GLU:N	1:D:81:VAL:N[8_565]	1.62	0.58
1:B:144:GLY:N	1:D:85:CYS:CA[8_565]	1.62	0.58
1:B:157:LYS:CA	1:C:167:GLY:C[7_555]	1.62	0.58
1:B:212:LEU:N	1:D:110:ASN:CG[8_565]	1.62	0.58
1:B:221:ASP:CA	1:D:151:ILE:CG1[8_565]	1.62	0.58
1:B:224:PHE:CG	1:D:202:LEU:C[8_565]	1.62	0.58
1:B:247:TYR:CZ	1:D:196:SER:O[8_565]	1.62	0.58
1:C:206:MET:CE	3:B:302:P6G:C14[6_555]	1.62	0.58
1:C:207:VAL:O	3:B:302:P6G:O19[6_555]	1.62	0.58
1:A:17:VAL:O	1:C:122:SER:OG[6_455]	1.63	0.57
1:A:19:GLU:CD	1:C:123:PHE:CB[6_455]	1.63	0.57
1:A:32:VAL:O	1:D:126:ASP:CG[7_555]	1.63	0.57
1:A:79:GLU:O	1:C:137:GLU:CA[8_565]	1.63	0.57
1:A:80:GLN:CB	1:C:138:GLU:O[8_565]	1.63	0.57
1:A:103:GLN:O	1:C:127:PRO:CG[8_565]	1.63	0.57
1:A:104:VAL:C	1:C:126:ASP:CA[8_565]	1.63	0.57
1:A:105:ARG:CG	1:C:125:THR:OG1[8_565]	1.63	0.57
1:A:109:ASP:O	1:C:212:LEU:CB[8_565]	1.63	0.57
1:A:115:HIS:CG	1:C:132:LEU:CA[8_565]	1.63	0.57
1:A:124:PRO:CA	1:D:26:GLN:O[7_555]	1.63	0.57
1:A:126:ASP:CG	1:D:32:VAL:O[7_555]	1.63	0.57
1:A:134:VAL:CG2	1:D:134:VAL:CG2[7_555]	1.63	0.57
1:A:137:GLU:N	1:D:219:GLN:CD[7_555]	1.63	0.57
1:A:142:ILE:CA	1:D:218:GLU:N[7_555]	1.63	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:143:PHE:CG	1:D:215:LYS:C[7_555]	1.63	0.57
1:A:196:SER:C	1:C:247:TYR:CE2[8_565]	1.63	0.57
1:B:8:TYR:O	1:C:87:SER:N[7_555]	1.63	0.57
1:B:21:MET:CG	1:C:17:VAL:CG1[6_455]	1.63	0.57
1:B:54:LEU:CD2	1:C:14:ARG:O[6_455]	1.63	0.57
1:B:68:ASN:O	1:C:110:ASN:CA[7_555]	1.63	0.57
1:B:82:GLU:OE2	1:C:9:LEU:CG[7_555]	1.63	0.57
1:B:85:CYS:O	1:C:6:LEU:CG[7_555]	1.63	0.57
1:B:116:GLU:CA	1:C:107:PHE:C[7_555]	1.63	0.57
1:B:119:VAL:CB	1:D:14:ARG:CG[6_455]	1.63	0.57
1:B:120:GLU:O	1:D:17:VAL:CB[6_455]	1.63	0.57
1:B:123:PHE:CB	1:D:19:GLU:CD[6_455]	1.63	0.57
1:B:127:PRO:CB	1:D:118:TYR:CB[8_565]	1.63	0.57
1:B:132:LEU:O	1:D:115:HIS:ND1[8_565]	1.63	0.57
1:B:143:PHE:CA	1:D:84:ALA:C[8_565]	1.63	0.57
1:B:157:LYS:CB	1:C:167:GLY:O[7_555]	1.63	0.57
1:B:162:PHE:C	1:C:161:PHE:C[7_555]	1.63	0.57
1:B:204:PRO:CB	1:C:73:ASP:OD1[7_555]	1.63	0.57
1:B:217:LYS:O	1:D:150:VAL:CA[8_565]	1.63	0.57
1:B:246:VAL:C	1:D:156:ALA:N[8_565]	1.63	0.57
1:B:261:LEU:CD1	1:D:111:ASP:N[8_565]	1.63	0.57
1:B:265:GLY:CA	1:D:157:LYS:O[8_565]	1.63	0.57
1:C:182:PHE:CZ	1:C:278:PHE:C[7_555]	1.63	0.57
1:A:14:ARG:CG	1:C:119:VAL:CB[6_455]	1.64	0.56
1:A:51:ARG:N	1:D:128:VAL:CG1[7_555]	1.64	0.56
1:A:52:ILE:N	1:D:128:VAL:CG1[7_555]	1.64	0.56
1:A:85:CYS:C	1:C:144:GLY:O[8_565]	1.64	0.56
1:A:90:THR:CB	1:C:124:PRO:CB[8_565]	1.64	0.56
1:A:106:GLN:CB	1:C:126:ASP:OD2[8_565]	1.64	0.56
1:A:108:ALA:C	1:C:45:LEU:CD1[8_565]	1.64	0.56
1:A:109:ASP:N	1:C:133:PHE:CD1[8_565]	1.64	0.56
1:A:111:ASP:N	1:C:261:LEU:CD1[8_565]	1.64	0.56
1:A:142:ILE:N	1:D:218:GLU:N[7_555]	1.64	0.56
1:A:153:ALA:N	1:C:248:SER:CA[8_565]	1.64	0.56
1:A:198:PRO:CG	1:C:238:ILE:CA[8_565]	1.64	0.56
1:A:203:LYS:NZ	1:C:234:VAL:CB[8_565]	1.64	0.56
1:A:215:LYS:C	1:D:143:PHE:CB[7_555]	1.64	0.56
1:A:217:LYS:CB	1:D:141:GLY:CA[7_555]	1.64	0.56
1:A:219:GLN:CB	1:D:137:GLU:C[7_555]	1.64	0.56
1:A:262:GLY:CA	1:D:139:ALA:CA[7_555]	1.64	0.56
1:B:4:LYS:N	1:C:110:ASN:ND2[7_555]	1.64	0.56
1:B:22:VAL:C	1:C:59:ALA:C[6_455]	1.64	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:84:ALA:CA	1:C:192:THR:C[7_555]	1.64	0.56
1:B:88:VAL:CG2	1:C:65:ILE:CD1[7_555]	1.64	0.56
1:B:97:ALA:CA	1:D:56:PRO:O[6_455]	1.64	0.56
1:B:110:ASN:ND2	1:C:4:LYS:C[7_555]	1.64	0.56
1:B:113:PHE:O	1:C:117:LEU:CG[7_555]	1.64	0.56
1:B:123:PHE:CB	1:D:19:GLU:CA[6_455]	1.64	0.56
1:B:126:ASP:O	1:D:105:ARG:C[8_565]	1.64	0.56
1:B:135:CYS:O	1:D:81:VAL:CB[8_565]	1.64	0.56
1:B:137:GLU:O	1:D:77:ILE:O[8_565]	1.64	0.56
1:B:137:GLU:OE2	1:D:79:GLU:CB[8_565]	1.64	0.56
1:B:168:PHE:O	1:C:160:SER:OG[7_555]	1.64	0.56
1:B:217:LYS:CG	1:D:195:LEU:N[8_565]	1.64	0.56
1:B:246:VAL:CG2	1:D:157:LYS:CA[8_565]	1.64	0.56
1:B:261:LEU:CB	1:D:111:ASP:CA[8_565]	1.64	0.56
1:A:37:GLU:CG	1:C:37:GLU:OE2[6_455]	1.65	0.55
1:A:43:VAL:CG1	1:D:127:PRO:N[7_555]	1.65	0.55
1:A:81:VAL:O	1:C:136:GLY:N[8_565]	1.65	0.55
1:A:135:CYS:CB	1:D:131:SER:C[7_555]	1.65	0.55
1:A:142:ILE:CG2	1:D:218:GLU:CB[7_555]	1.65	0.55
1:A:151:ILE:N	1:C:220:VAL:C[8_565]	1.65	0.55
1:A:156:ALA:CB	1:C:245:LYS:O[8_565]	1.65	0.55
1:A:158:THR:CA	1:C:263:PHE:C[8_565]	1.65	0.55
1:A:160:SER:OG	1:C:265:GLY:C[8_565]	1.65	0.55
1:A:202:LEU:C	1:C:224:PHE:CG[8_565]	1.65	0.55
1:A:202:LEU:O	1:C:224:PHE:CE1[8_565]	1.65	0.55
1:A:262:GLY:C	1:D:139:ALA:N[7_555]	1.65	0.55
1:B:9:LEU:CD2	1:C:82:GLU:CD[7_555]	1.65	0.55
1:B:17:VAL:CG1	1:C:21:MET:CG[6_455]	1.65	0.55
1:B:22:VAL:CG2	1:C:12:GLU:CB[6_455]	1.65	0.55
1:B:73:ASP:OD1	1:C:204:PRO:CB[7_555]	1.65	0.55
1:B:102:ALA:N	1:D:14:ARG:N[6_455]	1.65	0.55
1:B:103:GLN:O	1:D:58:PRO:CA[6_455]	1.65	0.55
1:B:107:PHE:CZ	1:C:115:HIS:CE1[7_555]	1.65	0.55
1:B:125:THR:C	1:D:104:VAL:O[8_565]	1.65	0.55
1:B:134:VAL:CB	1:D:161:PHE:CG[8_565]	1.65	0.55
1:B:135:CYS:N	1:D:81:VAL:CG1[8_565]	1.65	0.55
1:B:150:VAL:CB	1:C:76:ALA:O[7_555]	1.65	0.55
1:B:160:SER:OG	1:C:169:GLY:N[7_555]	1.65	0.55
1:B:162:PHE:O	1:C:161:PHE:N[7_555]	1.65	0.55
1:B:163:THR:CB	1:C:159:GLN:O[7_555]	1.65	0.55
1:B:248:SER:CA	1:D:152:VAL:C[8_565]	1.65	0.55
1:B:254:PRO:CB	1:C:256:GLY:N[6_455]	1.65	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:262:GLY:N	1:D:111:ASP:OD1[8_565]	1.65	0.55
1:D:133:PHE:CG	5:A:561:HOH:O[7_555]	1.65	0.55
1:A:45:LEU:CD1	1:D:127:PRO:O[7_555]	1.66	0.54
1:A:85:CYS:N	1:C:143:PHE:O[8_565]	1.66	0.54
1:A:86:TYR:CB	1:C:135:CYS:CA[8_565]	1.66	0.54
1:A:105:ARG:CB	1:C:130:GLU:CD[8_565]	1.66	0.54
1:A:105:ARG:CG	1:C:125:THR:CB[8_565]	1.66	0.54
1:A:109:ASP:OD2	1:C:214:ALA:CA[8_565]	1.66	0.54
1:A:110:ASN:OD1	1:C:211:MET:C[8_565]	1.66	0.54
1:A:112:GLY:N	1:C:29:ILE:CD1[8_565]	1.66	0.54
1:A:114:THR:N	1:C:133:PHE:CE2[8_565]	1.66	0.54
1:A:115:HIS:CD2	1:C:132:LEU:O[8_565]	1.66	0.54
1:A:134:VAL:CG1	1:D:215:LYS:CB[7_555]	1.66	0.54
1:A:137:GLU:OE1	1:D:223:ALA:N[7_555]	1.66	0.54
1:A:142:ILE:C	1:D:216:SER:CB[7_555]	1.66	0.54
1:A:142:ILE:CG2	1:D:218:GLU:CD[7_555]	1.66	0.54
1:A:151:ILE:O	1:C:220:VAL:CA[8_565]	1.66	0.54
1:A:154:ASP:C	1:C:246:VAL:C[8_565]	1.66	0.54
1:A:162:PHE:CE1	1:C:215:LYS:C[8_565]	1.66	0.54
1:A:164:ASP:O	1:C:140:ASN:ND2[8_565]	1.66	0.54
1:A:201:GLY:O	1:C:228:LYS:CD[8_565]	1.66	0.54
1:A:203:LYS:CG	1:C:234:VAL:CG2[8_565]	1.66	0.54
1:A:205:GLY:O	1:C:223:ALA:N[8_565]	1.66	0.54
1:A:218:GLU:CB	1:D:142:ILE:CB[7_555]	1.66	0.54
1:B:64:ALA:CB	1:C:89:VAL:CG2[7_555]	1.66	0.54
1:B:84:ALA:CA	1:C:192:THR:O[7_555]	1.66	0.54
1:B:128:VAL:C	1:D:116:GLU:CG[8_565]	1.66	0.54
1:B:134:VAL:CB	1:D:161:PHE:CD2[8_565]	1.66	0.54
1:B:143:PHE:CE2	1:D:165:VAL:CG2[8_565]	1.66	0.54
1:B:150:VAL:CG1	1:C:79:GLU:CA[7_555]	1.66	0.54
1:B:161:PHE:CB	1:C:168:PHE:CD2[7_555]	1.66	0.54
1:B:192:THR:C	1:C:84:ALA:CA[7_555]	1.66	0.54
1:B:238:ILE:CA	1:D:198:PRO:CB[8_565]	1.66	0.54
1:B:248:SER:CA	1:D:153:ALA:C[8_565]	1.66	0.54
1:B:248:SER:CA	1:D:153:ALA:N[8_565]	1.66	0.54
1:B:261:LEU:CD1	1:D:111:ASP:C[8_565]	1.66	0.54
1:C:16:ASP:C	5:B:557:HOH:O[6_555]	1.66	0.54
1:D:86:TYR:OH	5:B:521:HOH:O[8_655]	1.66	0.54
1:A:19:GLU:CA	1:C:123:PHE:CB[6_455]	1.67	0.53
1:A:19:GLU:C	1:C:123:PHE:CA[6_455]	1.67	0.53
1:A:19:GLU:OE2	1:C:49:PRO:CD[6_455]	1.67	0.53
1:A:31:ALA:CB	1:D:130:GLU:OE1[7_555]	1.67	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:84:ALA:C	1:C:143:PHE:CA[8_565]	1.67	0.53
1:A:85:CYS:CA	1:C:144:GLY:N[8_565]	1.67	0.53
1:A:86:TYR:C	1:C:135:CYS:SG[8_565]	1.67	0.53
1:A:87:SER:CB	1:C:51:ARG:CZ[8_565]	1.67	0.53
1:A:115:HIS:CB	1:C:132:LEU:N[8_565]	1.67	0.53
1:A:127:PRO:O	1:D:45:LEU:CD1[7_555]	1.67	0.53
1:A:129:LEU:CB	1:D:44:ARG:C[7_555]	1.67	0.53
1:A:133:PHE:O	1:D:133:PHE:O[7_555]	1.67	0.53
1:A:138:GLU:CG	1:D:214:ALA:CA[7_555]	1.67	0.53
1:A:150:VAL:CA	1:C:217:LYS:O[8_565]	1.67	0.53
1:A:151:ILE:O	1:C:220:VAL:C[8_565]	1.67	0.53
1:A:194:ALA:C	1:C:217:LYS:CB[8_565]	1.67	0.53
1:A:195:LEU:C	1:C:217:LYS:CE[8_565]	1.67	0.53
1:A:263:PHE:CD2	1:D:140:ASN:C[7_555]	1.67	0.53
1:B:12:GLU:C	1:C:22:VAL:N[6_455]	1.67	0.53
1:B:15:ALA:CB	1:C:52:ILE:C[6_455]	1.67	0.53
1:B:20:GLN:CD	1:C:257:PHE:CE2[6_455]	1.67	0.53
1:B:58:PRO:CD	1:C:33:VAL:CB[6_455]	1.67	0.53
1:B:61:ARG:N	1:C:20:GLN:O[6_455]	1.67	0.53
1:B:87:SER:OG	1:C:8:TYR:CA[7_555]	1.67	0.53
1:B:105:ARG:O	1:C:114:THR:N[7_555]	1.67	0.53
1:B:113:PHE:O	1:C:117:LEU:CA[7_555]	1.67	0.53
1:B:118:TYR:N	1:D:14:ARG:NH2[6_455]	1.67	0.53
1:B:137:GLU:O	1:D:78:ALA:C[8_565]	1.67	0.53
1:B:141:GLY:N	1:D:80:GLN:CD[8_565]	1.67	0.53
1:B:162:PHE:O	1:C:158:THR:O[7_555]	1.67	0.53
1:B:217:LYS:CB	1:D:194:ALA:O[8_565]	1.67	0.53
1:B:222:ARG:N	1:D:207:VAL:N[8_565]	1.67	0.53
1:B:224:PHE:CD2	1:D:202:LEU:O[8_565]	1.67	0.53
1:B:238:ILE:CG2	1:D:198:PRO:N[8_565]	1.67	0.53
1:B:246:VAL:CA	1:D:156:ALA:N[8_565]	1.67	0.53
1:B:256:GLY:N	1:C:254:PRO:CB[6_455]	1.67	0.53
1:B:261:LEU:CD2	1:D:111:ASP:O[8_565]	1.67	0.53
1:C:18:LEU:N	5:B:558:HOH:O[6_555]	1.67	0.53
1:C:173:ARG:N	1:C:278:PHE:CE1[7_555]	1.67	0.53
1:D:281:ALA:N	1:D:284:ILE:O[7_645]	1.67	0.53
1:A:43:VAL:O	1:D:128:VAL:CB[7_555]	1.68	0.52
1:A:45:LEU:C	1:D:129:LEU:O[7_555]	1.68	0.52
1:A:56:PRO:O	1:C:96:ALA:C[6_455]	1.68	0.52
1:A:78:ALA:O	1:C:137:GLU:O[8_565]	1.68	0.52
1:A:84:ALA:N	1:C:142:ILE:C[8_565]	1.68	0.52
1:A:134:VAL:CG1	1:D:215:LYS:CA[7_555]	1.68	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:137:GLU:OE2	1:D:222:ARG:N[7_555]	1.68	0.52
1:A:143:PHE:CD1	1:D:215:LYS:O[7_555]	1.68	0.52
1:A:165:VAL:CG1	1:C:138:GLU:CG[8_565]	1.68	0.52
1:A:198:PRO:N	1:C:238:ILE:CG2[8_565]	1.68	0.52
1:A:204:PRO:CA	1:C:249:PHE:CZ[8_565]	1.68	0.52
1:A:204:PRO:CG	1:C:249:PHE:CA[8_565]	1.68	0.52
1:A:206:MET:N	1:C:223:ALA:N[8_565]	1.68	0.52
1:A:216:SER:OG	1:D:143:PHE:N[7_555]	1.68	0.52
1:A:219:GLN:CD	1:D:137:GLU:N[7_555]	1.68	0.52
1:A:219:GLN:OE1	1:D:136:GLY:N[7_555]	1.68	0.52
1:A:263:PHE:CE1	1:D:143:PHE:CE2[7_555]	1.68	0.52
1:B:12:GLU:CB	1:C:22:VAL:CG1[6_455]	1.68	0.52
1:B:18:LEU:CD1	1:C:54:LEU:CA[6_455]	1.68	0.52
1:B:18:LEU:CD2	1:C:54:LEU:C[6_455]	1.68	0.52
1:B:36:ASP:O	1:C:40:ARG:NH1[6_455]	1.68	0.52
1:B:47:GLY:C	1:D:89:VAL:N[8_565]	1.68	0.52
1:B:56:PRO:N	1:C:41:ALA:N[6_455]	1.68	0.52
1:B:69:VAL:CA	1:C:110:ASN:C[7_555]	1.68	0.52
1:B:75:ALA:N	1:C:205:GLY:O[7_555]	1.68	0.52
1:B:76:ALA:O	1:C:150:VAL:CB[7_555]	1.68	0.52
1:B:103:GLN:CA	1:D:58:PRO:CA[6_455]	1.68	0.52
1:B:103:GLN:C	1:D:58:PRO:O[6_455]	1.68	0.52
1:B:105:ARG:CD	1:C:61:ARG:NH2[7_555]	1.68	0.52
1:B:106:GLN:O	1:C:64:ALA:CA[7_555]	1.68	0.52
1:B:109:ASP:O	1:C:67:TRP:O[7_555]	1.68	0.52
1:B:110:ASN:CA	1:C:68:ASN:O[7_555]	1.68	0.52
1:B:117:LEU:CB	1:C:113:PHE:C[7_555]	1.68	0.52
1:B:132:LEU:CA	1:D:115:HIS:CG[8_565]	1.68	0.52
1:B:148:LEU:CD2	1:C:82:GLU:CB[7_555]	1.68	0.52
1:B:167:GLY:CA	1:C:157:LYS:C[7_555]	1.68	0.52
1:B:167:GLY:C	1:C:157:LYS:CA[7_555]	1.68	0.52
1:B:212:LEU:C	1:D:110:ASN:N[8_565]	1.68	0.52
1:B:221:ASP:N	1:D:150:VAL:C[8_565]	1.68	0.52
1:B:254:PRO:O	1:C:253:ALA:C[6_455]	1.68	0.52
1:B:264:GLY:C	1:D:159:GLN:N[8_565]	1.68	0.52
1:B:264:GLY:C	1:D:160:SER:N[8_565]	1.68	0.52
1:A:8:TYR:CZ	1:C:128:VAL:CG2[8_565]	1.69	0.51
1:A:77:ILE:O	1:C:138:GLU:CA[8_565]	1.69	0.51
1:A:80:GLN:C	1:C:138:GLU:N[8_565]	1.69	0.51
1:A:86:TYR:CD2	1:C:134:VAL:C[8_565]	1.69	0.51
1:A:89:VAL:N	1:C:47:GLY:CA[8_565]	1.69	0.51
1:A:105:ARG:C	1:C:126:ASP:O[8_565]	1.69	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:107:PHE:N	1:C:45:LEU:C[8_565]	1.69	0.51
1:A:116:GLU:OE1	1:C:128:VAL:CG1[8_565]	1.69	0.51
1:A:124:PRO:C	1:D:26:GLN:C[7_555]	1.69	0.51
1:A:125:THR:C	1:D:25:TYR:O[7_555]	1.69	0.51
1:A:126:ASP:OD2	1:D:32:VAL:O[7_555]	1.69	0.51
1:A:129:LEU:N	1:D:44:ARG:C[7_555]	1.69	0.51
1:A:129:LEU:CA	1:D:45:LEU:C[7_555]	1.69	0.51
1:A:134:VAL:C	1:D:215:LYS:CB[7_555]	1.69	0.51
1:A:135:CYS:CA	1:D:132:LEU:CA[7_555]	1.69	0.51
1:A:140:ASN:CG	1:D:263:PHE:CA[7_555]	1.69	0.51
1:A:153:ALA:C	1:C:248:SER:CA[8_565]	1.69	0.51
1:A:161:PHE:CG	1:C:134:VAL:CB[8_565]	1.69	0.51
1:A:165:VAL:CA	1:C:140:ASN:CG[8_565]	1.69	0.51
1:A:198:PRO:CB	1:C:238:ILE:CA[8_565]	1.69	0.51
1:A:207:VAL:CG1	1:C:222:ARG:CD[8_565]	1.69	0.51
1:B:10:ILE:CG1	1:C:89:VAL:CG1[7_555]	1.69	0.51
1:B:19:GLU:CD	1:C:11:PHE:N[6_455]	1.69	0.51
1:B:61:ARG:CG	1:C:23:VAL:CG2[6_455]	1.69	0.51
1:B:63:ALA:CB	1:C:89:VAL:C[7_555]	1.69	0.51
1:B:68:ASN:O	1:C:110:ASN:CB[7_555]	1.69	0.51
1:B:87:SER:O	1:C:66:GLY:N[7_555]	1.69	0.51
1:B:110:ASN:C	1:C:69:VAL:CA[7_555]	1.69	0.51
1:B:111:ASP:N	1:C:69:VAL:CB[7_555]	1.69	0.51
1:B:114:THR:OG1	1:C:105:ARG:O[7_555]	1.69	0.51
1:B:130:GLU:CD	1:D:105:ARG:CB[8_565]	1.69	0.51
1:B:205:GLY:CA	1:C:76:ALA:N[7_555]	1.69	0.51
1:B:212:LEU:CB	1:D:109:ASP:O[8_565]	1.69	0.51
1:B:218:GLU:CB	1:D:148:LEU:C[8_565]	1.69	0.51
1:B:246:VAL:O	1:D:155:ARG:N[8_565]	1.69	0.51
1:B:263:PHE:CB	1:D:158:THR:CG2[8_565]	1.69	0.51
1:D:280:ASP:CB	1:D:285:TRP:CB[7_645]	1.69	0.51
1:A:25:TYR:O	1:D:125:THR:C[7_555]	1.70	0.50
1:A:26:GLN:C	1:D:124:PRO:C[7_555]	1.70	0.50
1:A:58:PRO:CB	1:C:103:GLN:C[6_455]	1.70	0.50
1:A:61:ARG:NH2	1:C:26:GLN:O[8_565]	1.70	0.50
1:A:112:GLY:O	1:C:30:GLY:N[8_565]	1.70	0.50
1:A:115:HIS:NE2	1:C:132:LEU:C[8_565]	1.70	0.50
1:A:129:LEU:C	1:D:45:LEU:C[7_555]	1.70	0.50
1:A:135:CYS:SG	1:D:132:LEU:CG[7_555]	1.70	0.50
1:A:139:ALA:O	1:D:247:TYR:C[7_555]	1.70	0.50
1:A:152:VAL:O	1:C:248:SER:CA[8_565]	1.70	0.50
1:A:157:LYS:C	1:C:265:GLY:CA[8_565]	1.70	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:161:PHE:CD2	1:C:134:VAL:CB[8_565]	1.70	0.50
1:A:197:ALA:O	1:C:238:ILE:CB[8_565]	1.70	0.50
1:A:215:LYS:NZ	1:D:213:GLU:C[7_555]	1.70	0.50
1:A:263:PHE:CA	1:D:140:ASN:CG[7_555]	1.70	0.50
1:B:9:LEU:CG	1:C:82:GLU:OE1[7_555]	1.70	0.50
1:B:9:LEU:CD2	1:C:82:GLU:OE2[7_555]	1.70	0.50
1:B:18:LEU:N	1:C:54:LEU:CD2[6_455]	1.70	0.50
1:B:22:VAL:O	1:C:59:ALA:C[6_455]	1.70	0.50
1:B:40:ARG:CA	1:C:40:ARG:CG[6_455]	1.70	0.50
1:B:40:ARG:CD	1:C:39:GLY:C[6_455]	1.70	0.50
1:B:56:PRO:CD	1:C:40:ARG:O[6_455]	1.70	0.50
1:B:89:VAL:CG1	1:C:10:ILE:CD1[7_555]	1.70	0.50
1:B:113:PHE:O	1:C:117:LEU:N[7_555]	1.70	0.50
1:B:124:PRO:C	1:D:90:THR:CB[8_565]	1.70	0.50
1:B:126:ASP:CA	1:D:105:ARG:CA[8_565]	1.70	0.50
1:B:137:GLU:CG	1:D:79:GLU:N[8_565]	1.70	0.50
1:B:138:GLU:N	1:D:80:GLN:C[8_565]	1.70	0.50
1:B:143:PHE:CZ	1:D:165:VAL:CG2[8_565]	1.70	0.50
1:B:157:LYS:CE	1:C:186:CYS:O[7_555]	1.70	0.50
1:B:166:LEU:N	1:C:162:PHE:CD1[7_555]	1.70	0.50
1:B:168:PHE:C	1:C:160:SER:CB[7_555]	1.70	0.50
1:B:205:GLY:O	1:C:75:ALA:CB[7_555]	1.70	0.50
1:B:224:PHE:CB	1:D:203:LYS:C[8_565]	1.70	0.50
1:B:238:ILE:CB	1:D:197:ALA:O[8_565]	1.70	0.50
1:B:239:GLY:N	1:D:197:ALA:CB[8_565]	1.70	0.50
1:B:254:PRO:CG	1:C:255:ALA:CA[6_455]	1.70	0.50
1:A:25:TYR:O	1:D:125:THR:CG2[7_555]	1.71	0.49
1:A:56:PRO:O	1:C:97:ALA:CA[6_455]	1.71	0.49
1:A:65:ILE:O	1:C:131:SER:OG[8_565]	1.71	0.49
1:A:89:VAL:CG2	1:C:46:ASP:O[8_565]	1.71	0.49
1:A:108:ALA:CA	1:C:45:LEU:CB[8_565]	1.71	0.49
1:A:108:ALA:CA	1:C:45:LEU:CG[8_565]	1.71	0.49
1:A:136:GLY:C	1:D:219:GLN:OE1[7_555]	1.71	0.49
1:A:137:GLU:CB	1:D:219:GLN:CB[7_555]	1.71	0.49
1:A:138:GLU:OE1	1:D:214:ALA:C[7_555]	1.71	0.49
1:A:139:ALA:CB	1:D:262:GLY:N[7_555]	1.71	0.49
1:A:151:ILE:O	1:C:220:VAL:CG1[8_565]	1.71	0.49
1:A:154:ASP:OD1	1:C:246:VAL:CB[8_565]	1.71	0.49
1:A:158:THR:CA	1:C:264:GLY:N[8_565]	1.71	0.49
1:A:160:SER:N	1:C:264:GLY:C[8_565]	1.71	0.49
1:A:213:GLU:CA	1:D:215:LYS:NZ[7_555]	1.71	0.49
1:A:218:GLU:N	1:D:142:ILE:N[7_555]	1.71	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:218:GLU:CD	1:D:142:ILE:CB[7.555]	1.71	0.49
1:A:219:GLN:O	1:D:137:GLU:OE1[7.555]	1.71	0.49
1:B:29:ILE:O	1:D:113:PHE:N[8.565]	1.71	0.49
1:B:33:VAL:CG1	1:C:57:GLY:N[6.455]	1.71	0.49
1:B:49:PRO:CD	1:D:19:GLU:OE2[6.455]	1.71	0.49
1:B:64:ALA:N	1:C:89:VAL:C[7.555]	1.71	0.49
1:B:65:ILE:C	1:C:87:SER:O[7.555]	1.71	0.49
1:B:67:TRP:CZ3	1:C:86:TYR:CD2[7.555]	1.71	0.49
1:B:83:LYS:O	1:C:192:THR:C[7.555]	1.71	0.49
1:B:87:SER:O	1:C:65:ILE:C[7.555]	1.71	0.49
1:B:89:VAL:C	1:C:63:ALA:CB[7.555]	1.71	0.49
1:B:119:VAL:C	1:D:14:ARG:CD[6.455]	1.71	0.49
1:B:124:PRO:C	1:D:90:THR:OG1[8.565]	1.71	0.49
1:B:128:VAL:CB	1:D:8:TYR:OH[8.565]	1.71	0.49
1:B:133:PHE:CZ	1:D:114:THR:N[8.565]	1.71	0.49
1:B:149:VAL:CG2	1:C:83:LYS:CE[7.555]	1.71	0.49
1:B:161:PHE:C	1:C:162:PHE:C[7.555]	1.71	0.49
1:B:167:GLY:O	1:C:157:LYS:N[7.555]	1.71	0.49
1:B:192:THR:O	1:C:84:ALA:CA[7.555]	1.71	0.49
1:B:218:GLU:C	1:D:150:VAL:CB[8.565]	1.71	0.49
1:B:222:ARG:CG	1:D:207:VAL:CG2[8.565]	1.71	0.49
1:B:223:ALA:N	1:D:206:MET:C[8.565]	1.71	0.49
1:B:247:TYR:CZ	1:D:196:SER:N[8.565]	1.71	0.49
1:D:157:LYS:NZ	5:B:514:HOH:O[8.655]	1.71	0.49
1:D:198:PRO:C	5:B:580:HOH:O[8.655]	1.71	0.49
1:A:4:LYS:NZ	1:D:222:ARG:CD[7.555]	1.72	0.48
1:A:45:LEU:CG	1:D:127:PRO:O[7.555]	1.72	0.48
1:A:81:VAL:CG1	1:C:135:CYS:C[8.565]	1.72	0.48
1:A:83:LYS:CA	1:C:142:ILE:CB[8.565]	1.72	0.48
1:A:113:PHE:CZ	1:C:219:GLN:C[8.565]	1.72	0.48
1:A:124:PRO:CA	1:D:26:GLN:C[7.555]	1.72	0.48
1:A:125:THR:OG1	1:D:25:TYR:O[7.555]	1.72	0.48
1:A:129:LEU:CB	1:D:45:LEU:CA[7.555]	1.72	0.48
1:A:130:GLU:N	1:D:45:LEU:CG[7.555]	1.72	0.48
1:A:151:ILE:O	1:C:220:VAL:O[8.565]	1.72	0.48
1:A:151:ILE:CD1	1:C:221:ASP:OD1[8.565]	1.72	0.48
1:A:219:GLN:C	1:D:137:GLU:CD[7.555]	1.72	0.48
1:B:41:ALA:CB	1:C:56:PRO:C[6.455]	1.72	0.48
1:B:54:LEU:CA	1:C:18:LEU:CG[6.455]	1.72	0.48
1:B:54:LEU:CD1	1:C:13:CYS:O[6.455]	1.72	0.48
1:B:64:ALA:C	1:C:89:VAL:N[7.555]	1.72	0.48
1:B:66:GLY:N	1:C:87:SER:O[7.555]	1.72	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:67:TRP:O	1:C:109:ASP:O[7_555]	1.72	0.48
1:B:103:GLN:O	1:D:58:PRO:O[6_455]	1.72	0.48
1:B:109:ASP:OD2	1:C:117:LEU:CD2[7_555]	1.72	0.48
1:B:113:PHE:CD2	1:C:78:ALA:N[7_555]	1.72	0.48
1:B:114:THR:CA	1:C:105:ARG:C[7_555]	1.72	0.48
1:B:120:GLU:CD	1:D:15:ALA:C[6_455]	1.72	0.48
1:B:122:SER:OG	1:D:21:MET:CA[6_455]	1.72	0.48
1:B:123:PHE:CD2	1:D:19:GLU:CG[6_455]	1.72	0.48
1:B:125:THR:CB	1:D:105:ARG:CG[8_565]	1.72	0.48
1:B:128:VAL:O	1:D:65:ILE:O[8_565]	1.72	0.48
1:B:129:LEU:CA	1:D:115:HIS:C[8_565]	1.72	0.48
1:B:137:GLU:C	1:D:81:VAL:N[8_565]	1.72	0.48
1:B:137:GLU:CB	1:D:79:GLU:O[8_565]	1.72	0.48
1:B:142:ILE:C	1:D:84:ALA:N[8_565]	1.72	0.48
1:B:218:GLU:CB	1:D:149:VAL:CA[8_565]	1.72	0.48
1:B:220:VAL:O	1:D:151:ILE:O[8_565]	1.72	0.48
1:B:263:PHE:C	1:D:158:THR:CA[8_565]	1.72	0.48
1:C:173:ARG:CA	1:C:278:PHE:CE1[7_555]	1.72	0.48
1:D:280:ASP:OD2	1:D:285:TRP:O[7_645]	1.72	0.48
1:A:18:LEU:C	1:C:122:SER:CA[6_455]	1.73	0.47
1:A:19:GLU:OE1	1:C:123:PHE:CB[6_455]	1.73	0.47
1:A:20:GLN:N	1:C:123:PHE:N[6_455]	1.73	0.47
1:A:44:ARG:NH2	1:D:32:VAL:CG1[7_555]	1.73	0.47
1:A:45:LEU:C	1:D:129:LEU:C[7_555]	1.73	0.47
1:A:109:ASP:CB	1:C:213:GLU:O[8_565]	1.73	0.47
1:A:125:THR:N	1:D:26:GLN:O[7_555]	1.73	0.47
1:A:129:LEU:O	1:D:45:LEU:CB[7_555]	1.73	0.47
1:A:133:PHE:O	1:D:133:PHE:N[7_555]	1.73	0.47
1:A:137:GLU:OE1	1:D:219:GLN:O[7_555]	1.73	0.47
1:A:143:PHE:CA	1:D:216:SER:CB[7_555]	1.73	0.47
1:A:194:ALA:O	1:C:217:LYS:CB[8_565]	1.73	0.47
1:A:219:GLN:O	1:D:137:GLU:CB[7_555]	1.73	0.47
1:A:263:PHE:CG	1:D:140:ASN:OD1[7_555]	1.73	0.47
1:B:16:ASP:CB	1:C:11:PHE:CZ[6_455]	1.73	0.47
1:B:18:LEU:CA	1:C:13:CYS:SG[6_455]	1.73	0.47
1:B:30:GLY:N	1:D:112:GLY:O[8_565]	1.73	0.47
1:B:52:ILE:C	1:C:15:ALA:CB[6_455]	1.73	0.47
1:B:59:ALA:C	1:C:22:VAL:O[6_455]	1.73	0.47
1:B:83:LYS:CA	1:C:148:LEU:C[7_555]	1.73	0.47
1:B:89:VAL:C	1:C:64:ALA:N[7_555]	1.73	0.47
1:B:97:ALA:O	1:D:56:PRO:CG[6_455]	1.73	0.47
1:B:109:ASP:OD1	1:C:117:LEU:CD2[7_555]	1.73	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:115:HIS:ND1	1:C:107:PHE:CE1[7_555]	1.73	0.47
1:B:117:LEU:CA	1:C:113:PHE:O[7_555]	1.73	0.47
1:B:122:SER:C	1:D:19:GLU:CA[6_455]	1.73	0.47
1:B:123:PHE:CD2	1:D:19:GLU:CB[6_455]	1.73	0.47
1:B:127:PRO:N	1:D:117:LEU:O[8_565]	1.73	0.47
1:B:132:LEU:CD2	1:D:65:ILE:CA[8_565]	1.73	0.47
1:B:137:GLU:C	1:D:80:GLN:N[8_565]	1.73	0.47
1:B:143:PHE:O	1:D:85:CYS:N[8_565]	1.73	0.47
1:B:148:LEU:CD2	1:C:82:GLU:CA[7_555]	1.73	0.47
1:B:150:VAL:N	1:C:80:GLN:NE2[7_555]	1.73	0.47
1:B:162:PHE:CG	1:C:165:VAL:CB[7_555]	1.73	0.47
1:B:186:CYS:CB	1:C:157:LYS:CE[7_555]	1.73	0.47
1:B:217:LYS:CD	1:D:195:LEU:N[8_565]	1.73	0.47
1:B:220:VAL:C	1:D:151:ILE:O[8_565]	1.73	0.47
1:B:238:ILE:CG1	1:D:198:PRO:CA[8_565]	1.73	0.47
1:B:263:PHE:C	1:D:158:THR:C[8_565]	1.73	0.47
1:C:173:ARG:NH2	1:C:279:TYR:C[7_555]	1.73	0.47
1:A:32:VAL:CG2	1:D:44:ARG:CZ[7_555]	1.74	0.46
1:A:37:GLU:CG	1:C:37:GLU:CD[6_455]	1.74	0.46
1:A:58:PRO:O	1:C:103:GLN:O[6_455]	1.74	0.46
1:A:67:TRP:N	1:C:131:SER:CB[8_565]	1.74	0.46
1:A:79:GLU:CG	1:C:137:GLU:CG[8_565]	1.74	0.46
1:A:104:VAL:C	1:C:127:PRO:CD[8_565]	1.74	0.46
1:A:105:ARG:O	1:C:130:GLU:CG[8_565]	1.74	0.46
1:A:106:GLN:O	1:C:46:ASP:N[8_565]	1.74	0.46
1:A:116:GLU:CG	1:C:128:VAL:C[8_565]	1.74	0.46
1:A:130:GLU:OE1	1:D:29:ILE:CG2[7_555]	1.74	0.46
1:A:139:ALA:CA	1:D:262:GLY:CA[7_555]	1.74	0.46
1:A:151:ILE:N	1:C:221:ASP:CA[8_565]	1.74	0.46
1:A:206:MET:C	1:C:221:ASP:C[8_565]	1.74	0.46
1:A:216:SER:C	1:D:141:GLY:O[7_555]	1.74	0.46
1:A:219:GLN:OE1	1:D:135:CYS:C[7_555]	1.74	0.46
1:B:13:CYS:C	1:C:54:LEU:CD1[6_455]	1.74	0.46
1:B:15:ALA:N	1:C:52:ILE:CG2[6_455]	1.74	0.46
1:B:21:MET:SD	1:C:17:VAL:CG1[6_455]	1.74	0.46
1:B:29:ILE:C	1:D:112:GLY:C[8_565]	1.74	0.46
1:B:36:ASP:OD2	1:C:38:GLY:N[6_455]	1.74	0.46
1:B:40:ARG:CZ	1:C:39:GLY:N[6_455]	1.74	0.46
1:B:46:ASP:O	1:D:89:VAL:CG2[8_565]	1.74	0.46
1:B:59:ALA:CB	1:C:23:VAL:C[6_455]	1.74	0.46
1:B:103:GLN:O	1:D:58:PRO:C[6_455]	1.74	0.46
1:B:103:GLN:CB	1:D:58:PRO:O[6_455]	1.74	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:117:LEU:CD1	1:C:113:PHE:CA[7_555]	1.74	0.46
1:B:121:SER:OG	1:D:13:CYS:O[6_455]	1.74	0.46
1:B:124:PRO:CD	1:D:90:THR:CB[8_565]	1.74	0.46
1:B:149:VAL:N	1:C:83:LYS:CD[7_555]	1.74	0.46
1:B:159:GLN:O	1:C:163:THR:CB[7_555]	1.74	0.46
1:B:159:GLN:O	1:C:164:ASP:N[7_555]	1.74	0.46
1:B:224:PHE:CD1	1:D:203:LYS:C[8_565]	1.74	0.46
1:B:228:LYS:CD	1:D:201:GLY:O[8_565]	1.74	0.46
1:B:234:VAL:CG2	1:D:203:LYS:CD[8_565]	1.74	0.46
1:B:254:PRO:C	1:C:254:PRO:C[6_455]	1.74	0.46
1:B:254:PRO:CB	1:C:255:ALA:O[6_455]	1.74	0.46
1:A:37:GLU:CB	1:C:37:GLU:OE1[6_455]	1.75	0.45
1:A:43:VAL:O	1:D:128:VAL:CG1[7_555]	1.75	0.45
1:A:45:LEU:CB	1:D:129:LEU:O[7_555]	1.75	0.45
1:A:58:PRO:C	1:C:103:GLN:O[6_455]	1.75	0.45
1:A:65:ILE:CD1	1:C:219:GLN:CD[8_565]	1.75	0.45
1:A:81:VAL:N	1:C:137:GLU:C[8_565]	1.75	0.45
1:A:82:GLU:C	1:C:5:GLN:OE1[8_565]	1.75	0.45
1:A:83:LYS:CA	1:C:142:ILE:CA[8_565]	1.75	0.45
1:A:89:VAL:N	1:C:47:GLY:C[8_565]	1.75	0.45
1:A:106:GLN:O	1:C:46:ASP:CB[8_565]	1.75	0.45
1:A:110:ASN:O	1:C:260:GLU:O[8_565]	1.75	0.45
1:A:115:HIS:CB	1:C:133:PHE:N[8_565]	1.75	0.45
1:A:126:ASP:CB	1:D:31:ALA:C[7_555]	1.75	0.45
1:A:129:LEU:CG	1:D:129:LEU:CD2[7_555]	1.75	0.45
1:A:137:GLU:CB	1:D:219:GLN:O[7_555]	1.75	0.45
1:A:138:GLU:O	1:D:220:VAL:CB[7_555]	1.75	0.45
1:A:141:GLY:C	1:D:216:SER:C[7_555]	1.75	0.45
1:A:142:ILE:CG2	1:D:218:GLU:CG[7_555]	1.75	0.45
1:A:143:PHE:CB	1:D:215:LYS:C[7_555]	1.75	0.45
1:A:150:VAL:C	1:C:221:ASP:N[8_565]	1.75	0.45
1:A:150:VAL:CB	1:C:220:VAL:N[8_565]	1.75	0.45
1:A:155:ARG:NE	1:C:240:GLN:CD[8_565]	1.75	0.45
1:A:206:MET:CA	1:C:222:ARG:O[8_565]	1.75	0.45
1:A:214:ALA:C	1:D:138:GLU:OE1[7_555]	1.75	0.45
1:A:215:LYS:CD	1:D:134:VAL:C[7_555]	1.75	0.45
1:A:220:VAL:CB	1:D:138:GLU:O[7_555]	1.75	0.45
1:A:263:PHE:CZ	1:D:143:PHE:CZ[7_555]	1.75	0.45
1:B:11:PHE:N	1:C:19:GLU:CD[6_455]	1.75	0.45
1:B:41:ALA:N	1:C:56:PRO:N[6_455]	1.75	0.45
1:B:45:LEU:C	1:D:107:PHE:N[8_565]	1.75	0.45
1:B:46:ASP:OD2	1:D:88:VAL:CB[8_565]	1.75	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:56:PRO:C	1:C:41:ALA:CB[6.455]	1.75	0.45
1:B:64:ALA:O	1:C:88:VAL:N[7.555]	1.75	0.45
1:B:117:LEU:N	1:C:113:PHE:O[7.555]	1.75	0.45
1:B:133:PHE:CE2	1:D:113:PHE:C[8.565]	1.75	0.45
1:B:158:THR:CB	1:C:167:GLY:N[7.555]	1.75	0.45
1:B:162:PHE:CD2	1:C:161:PHE:CD1[7.555]	1.75	0.45
1:B:162:PHE:CE1	1:C:165:VAL:CB[7.555]	1.75	0.45
1:B:215:LYS:CG	1:D:166:LEU:CD1[8.565]	1.75	0.45
1:B:218:GLU:C	1:D:150:VAL:CA[8.565]	1.75	0.45
1:B:246:VAL:CG1	1:D:154:ASP:C[8.565]	1.75	0.45
1:B:263:PHE:CE2	1:D:195:LEU:CG[8.565]	1.75	0.45
1:B:264:GLY:N	1:D:158:THR:CA[8.565]	1.75	0.45
1:D:281:ALA:N	1:D:284:ILE:C[7.645]	1.75	0.45
1:D:281:ALA:N	1:D:284:ILE:CG2[7.645]	1.75	0.45
1:A:19:GLU:CA	1:C:122:SER:C[6.455]	1.76	0.44
1:A:51:ARG:N	1:D:128:VAL:CB[7.555]	1.76	0.44
1:A:87:SER:C	1:C:46:ASP:OD1[8.565]	1.76	0.44
1:A:112:GLY:C	1:C:29:ILE:C[8.565]	1.76	0.44
1:A:130:GLU:N	1:D:45:LEU:CD2[7.555]	1.76	0.44
1:A:140:ASN:CG	1:D:263:PHE:O[7.555]	1.76	0.44
1:A:155:ARG:CG	1:C:247:TYR:CB[8.565]	1.76	0.44
1:A:156:ALA:N	1:C:245:LYS:C[8.565]	1.76	0.44
1:A:195:LEU:CD1	1:C:263:PHE:CG[8.565]	1.76	0.44
1:A:196:SER:CA	1:C:247:TYR:OH[8.565]	1.76	0.44
1:A:198:PRO:CA	1:C:238:ILE:CG1[8.565]	1.76	0.44
1:A:203:LYS:CD	1:C:234:VAL:CG2[8.565]	1.76	0.44
1:B:11:PHE:CB	1:C:19:GLU:CA[6.455]	1.76	0.44
1:B:14:ARG:O	1:C:54:LEU:CD2[6.455]	1.76	0.44
1:B:19:GLU:CA	1:C:11:PHE:CB[6.455]	1.76	0.44
1:B:26:GLN:CB	1:C:58:PRO:CG[6.455]	1.76	0.44
1:B:37:GLU:CD	1:D:37:GLU:CG[6.455]	1.76	0.44
1:B:40:ARG:NE	1:C:38:GLY:C[6.455]	1.76	0.44
1:B:40:ARG:NE	1:C:39:GLY:CA[6.455]	1.76	0.44
1:B:46:ASP:N	1:D:106:GLN:O[8.565]	1.76	0.44
1:B:46:ASP:OD1	1:D:87:SER:C[8.565]	1.76	0.44
1:B:65:ILE:CD1	1:C:88:VAL:CG2[7.555]	1.76	0.44
1:B:67:TRP:NE1	1:C:107:PHE:CE1[7.555]	1.76	0.44
1:B:67:TRP:CE2	1:C:86:TYR:CD2[7.555]	1.76	0.44
1:B:78:ALA:N	1:C:113:PHE:CD1[7.555]	1.76	0.44
1:B:78:ALA:N	1:C:113:PHE:CD2[7.555]	1.76	0.44
1:B:86:TYR:CE2	1:C:67:TRP:CE3[7.555]	1.76	0.44
1:B:87:SER:CB	1:C:9:LEU:CA[7.555]	1.76	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:89:VAL:CG2	1:C:64:ALA:CB[7_555]	1.76	0.44
1:B:105:ARG:C	1:C:114:THR:CA[7_555]	1.76	0.44
1:B:107:PHE:CD1	1:C:67:TRP:NE1[7_555]	1.76	0.44
1:B:108:ALA:N	1:C:116:GLU:C[7_555]	1.76	0.44
1:B:109:ASP:CA	1:C:67:TRP:CB[7_555]	1.76	0.44
1:B:114:THR:CG2	1:C:106:GLN:N[7_555]	1.76	0.44
1:B:115:HIS:CB	1:C:115:HIS:CB[7_555]	1.76	0.44
1:B:119:VAL:N	1:D:14:ARG:CD[6_455]	1.76	0.44
1:B:131:SER:CB	1:D:67:TRP:N[8_565]	1.76	0.44
1:B:133:PHE:CE1	1:D:113:PHE:C[8_565]	1.76	0.44
1:B:133:PHE:CE2	1:D:114:THR:N[8_565]	1.76	0.44
1:B:135:CYS:SG	1:D:86:TYR:C[8_565]	1.76	0.44
1:B:135:CYS:SG	1:D:86:TYR:CB[8_565]	1.76	0.44
1:B:148:LEU:CB	1:C:82:GLU:CA[7_555]	1.76	0.44
1:B:158:THR:CB	1:C:166:LEU:C[7_555]	1.76	0.44
1:B:220:VAL:N	1:D:150:VAL:CB[8_565]	1.76	0.44
1:B:220:VAL:CA	1:D:151:ILE:O[8_565]	1.76	0.44
1:B:220:VAL:CG1	1:D:151:ILE:O[8_565]	1.76	0.44
1:B:222:ARG:O	1:D:206:MET:CA[8_565]	1.76	0.44
1:B:248:SER:CA	1:D:152:VAL:O[8_565]	1.76	0.44
1:B:249:PHE:CD2	1:D:204:PRO:N[8_565]	1.76	0.44
1:B:255:ALA:CA	1:C:254:PRO:CB[6_455]	1.76	0.44
1:C:2:SER:C	5:B:574:HOH:O[7_555]	1.76	0.44
1:A:44:ARG:CZ	1:D:32:VAL:CG2[7_555]	1.77	0.43
1:A:58:PRO:O	1:C:103:GLN:C[6_455]	1.77	0.43
1:A:59:ALA:CA	1:C:103:GLN:CD[6_455]	1.77	0.43
1:A:77:ILE:O	1:C:137:GLU:O[8_565]	1.77	0.43
1:A:83:LYS:CG	1:C:142:ILE:CD1[8_565]	1.77	0.43
1:A:90:THR:CB	1:C:124:PRO:CG[8_565]	1.77	0.43
1:A:117:LEU:O	1:C:127:PRO:N[8_565]	1.77	0.43
1:A:139:ALA:N	1:D:262:GLY:C[7_555]	1.77	0.43
1:A:140:ASN:ND2	1:D:263:PHE:C[7_555]	1.77	0.43
1:A:152:VAL:CG1	1:C:220:VAL:CB[8_565]	1.77	0.43
1:A:156:ALA:N	1:C:246:VAL:C[8_565]	1.77	0.43
1:A:184:LEU:CD1	1:C:263:PHE:CZ[8_565]	1.77	0.43
1:A:215:LYS:CA	1:D:134:VAL:CG1[7_555]	1.77	0.43
1:A:218:GLU:CA	1:D:142:ILE:CB[7_555]	1.77	0.43
1:A:263:PHE:C	1:D:140:ASN:OD1[7_555]	1.77	0.43
1:B:9:LEU:CA	1:C:87:SER:CB[7_555]	1.77	0.43
1:B:11:PHE:N	1:C:19:GLU:CB[6_455]	1.77	0.43
1:B:17:VAL:CG1	1:C:21:MET:SD[6_455]	1.77	0.43
1:B:23:VAL:C	1:C:59:ALA:CB[6_455]	1.77	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:25:TYR:CG	1:C:14:ARG:CB[6.455]	1.77	0.43
1:B:39:GLY:C	1:C:40:ARG:CB[6.455]	1.77	0.43
1:B:47:GLY:CA	1:D:89:VAL:N[8.565]	1.77	0.43
1:B:63:ALA:CA	1:C:90:THR:CA[7.555]	1.77	0.43
1:B:79:GLU:CD	1:C:207:VAL:C[7.555]	1.77	0.43
1:B:79:GLU:OE1	1:C:208:HIS:C[7.555]	1.77	0.43
1:B:83:LYS:CA	1:C:148:LEU:O[7.555]	1.77	0.43
1:B:83:LYS:NZ	1:C:149:VAL:CG1[7.555]	1.77	0.43
1:B:108:ALA:CB	1:C:116:GLU:C[7.555]	1.77	0.43
1:B:110:ASN:CA	1:C:69:VAL:CG1[7.555]	1.77	0.43
1:B:110:ASN:ND2	1:C:4:LYS:CA[7.555]	1.77	0.43
1:B:137:GLU:O	1:D:78:ALA:O[8.565]	1.77	0.43
1:B:138:GLU:C	1:D:80:GLN:CB[8.565]	1.77	0.43
1:B:149:VAL:CA	1:C:83:LYS:CE[7.555]	1.77	0.43
1:B:149:VAL:CA	1:C:83:LYS:CG[7.555]	1.77	0.43
1:B:157:LYS:C	1:C:167:GLY:CA[7.555]	1.77	0.43
1:B:207:VAL:C	1:C:79:GLU:CD[7.555]	1.77	0.43
1:B:212:LEU:CD1	1:C:14:ARG:NH1[6.455]	1.77	0.43
1:B:228:LYS:CE	1:D:201:GLY:O[8.565]	1.77	0.43
1:B:247:TYR:OH	1:D:196:SER:OG[8.565]	1.77	0.43
1:B:265:GLY:CA	1:D:157:LYS:C[8.565]	1.77	0.43
1:A:26:GLN:O	1:D:125:THR:N[7.555]	1.78	0.42
1:A:46:ASP:OD2	1:D:132:LEU:CD2[7.555]	1.78	0.42
1:A:59:ALA:CB	1:C:103:GLN:CB[6.455]	1.78	0.42
1:A:88:VAL:N	1:C:51:ARG:NH2[8.565]	1.78	0.42
1:A:89:VAL:CB	1:C:48:ARG:N[8.565]	1.78	0.42
1:A:90:THR:OG1	1:C:123:PHE:O[8.565]	1.78	0.42
1:A:111:ASP:CB	1:C:261:LEU:CB[8.565]	1.78	0.42
1:A:128:VAL:CG2	1:D:51:ARG:N[7.555]	1.78	0.42
1:A:130:GLU:N	1:D:45:LEU:CA[7.555]	1.78	0.42
1:A:133:PHE:N	1:D:133:PHE:O[7.555]	1.78	0.42
1:A:137:GLU:CA	1:D:219:GLN:CG[7.555]	1.78	0.42
1:A:158:THR:C	1:C:263:PHE:C[8.565]	1.78	0.42
1:A:195:LEU:N	1:C:217:LYS:CD[8.565]	1.78	0.42
1:A:197:ALA:CB	1:C:239:GLY:N[8.565]	1.78	0.42
1:A:219:GLN:OE1	1:D:136:GLY:CA[7.555]	1.78	0.42
1:A:262:GLY:N	1:D:139:ALA:CB[7.555]	1.78	0.42
1:B:11:PHE:CZ	1:C:16:ASP:CB[6.455]	1.78	0.42
1:B:23:VAL:CB	1:C:61:ARG:CB[6.455]	1.78	0.42
1:B:46:ASP:CG	1:D:88:VAL:N[8.565]	1.78	0.42
1:B:67:TRP:CB	1:C:109:ASP:CA[7.555]	1.78	0.42
1:B:85:CYS:SG	1:C:146:GLY:C[7.555]	1.78	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:89:VAL:N	1:C:64:ALA:C[7_555]	1.78	0.42
1:B:115:HIS:N	1:C:115:HIS:O[7_555]	1.78	0.42
1:B:122:SER:CA	1:D:17:VAL:C[6_455]	1.78	0.42
1:B:123:PHE:CB	1:D:19:GLU:OE1[6_455]	1.78	0.42
1:B:141:GLY:CA	1:D:80:GLN:CD[8_565]	1.78	0.42
1:B:142:ILE:CB	1:D:83:LYS:CA[8_565]	1.78	0.42
1:B:164:ASP:N	1:C:159:GLN:O[7_555]	1.78	0.42
1:B:224:PHE:CZ	1:D:202:LEU:C[8_565]	1.78	0.42
1:B:246:VAL:C	1:D:154:ASP:C[8_565]	1.78	0.42
1:B:249:PHE:CE1	1:D:204:PRO:O[8_565]	1.78	0.42
1:A:16:ASP:CA	1:C:120:GLU:CD[6_455]	1.79	0.41
1:A:18:LEU:CB	1:C:121:SER:CB[6_455]	1.79	0.41
1:A:26:GLN:CD	1:D:124:PRO:CG[7_555]	1.79	0.41
1:A:57:GLY:O	1:C:101:ALA:C[6_455]	1.79	0.41
1:A:60:ASN:N	1:C:103:GLN:NE2[6_455]	1.79	0.41
1:A:79:GLU:CA	1:C:137:GLU:CD[8_565]	1.79	0.41
1:A:81:VAL:CB	1:C:135:CYS:O[8_565]	1.79	0.41
1:A:87:SER:OG	1:C:51:ARG:CD[8_565]	1.79	0.41
1:A:87:SER:OG	1:C:51:ARG:NH1[8_565]	1.79	0.41
1:A:90:THR:OG1	1:C:124:PRO:O[8_565]	1.79	0.41
1:A:126:ASP:OD1	1:D:44:ARG:CA[7_555]	1.79	0.41
1:A:126:ASP:OD1	1:D:44:ARG:O[7_555]	1.79	0.41
1:A:132:LEU:O	1:D:135:CYS:O[7_555]	1.79	0.41
1:A:142:ILE:O	1:D:218:GLU:OE2[7_555]	1.79	0.41
1:A:150:VAL:CA	1:C:218:GLU:C[8_565]	1.79	0.41
1:A:153:ALA:CA	1:C:248:SER:CB[8_565]	1.79	0.41
1:A:156:ALA:CB	1:C:245:LYS:CB[8_565]	1.79	0.41
1:A:157:LYS:N	1:C:246:VAL:CA[8_565]	1.79	0.41
1:A:198:PRO:CD	1:C:238:ILE:C[8_565]	1.79	0.41
1:A:203:LYS:C	1:C:224:PHE:CD1[8_565]	1.79	0.41
1:A:219:GLN:OE1	1:D:135:CYS:O[7_555]	1.79	0.41
1:A:263:PHE:CA	1:D:140:ASN:N[7_555]	1.79	0.41
1:B:8:TYR:CA	1:C:87:SER:OG[7_555]	1.79	0.41
1:B:18:LEU:CD1	1:C:54:LEU:C[6_455]	1.79	0.41
1:B:19:GLU:N	1:C:11:PHE:CA[6_455]	1.79	0.41
1:B:19:GLU:CB	1:C:11:PHE:N[6_455]	1.79	0.41
1:B:36:ASP:OD2	1:C:38:GLY:C[6_455]	1.79	0.41
1:B:52:ILE:CG2	1:C:15:ALA:C[6_455]	1.79	0.41
1:B:54:LEU:CD1	1:C:13:CYS:C[6_455]	1.79	0.41
1:B:56:PRO:CA	1:C:41:ALA:C[6_455]	1.79	0.41
1:B:64:ALA:C	1:C:88:VAL:C[7_555]	1.79	0.41
1:B:88:VAL:C	1:C:64:ALA:C[7_555]	1.79	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:102:ALA:C	1:D:59:ALA:O[6_455]	1.79	0.41
1:B:103:GLN:C	1:D:58:PRO:CB[6_455]	1.79	0.41
1:B:127:PRO:C	1:D:116:GLU:C[8_565]	1.79	0.41
1:B:127:PRO:CB	1:D:118:TYR:N[8_565]	1.79	0.41
1:B:132:LEU:CG	1:D:114:THR:O[8_565]	1.79	0.41
1:B:137:GLU:OE1	1:D:79:GLU:CB[8_565]	1.79	0.41
1:B:161:PHE:N	1:C:162:PHE:C[7_555]	1.79	0.41
1:B:162:PHE:C	1:C:161:PHE:N[7_555]	1.79	0.41
1:B:186:CYS:N	1:C:157:LYS:NZ[7_555]	1.79	0.41
1:B:215:LYS:CE	1:D:166:LEU:CG[8_565]	1.79	0.41
1:B:221:ASP:CA	1:D:151:ILE:N[8_565]	1.79	0.41
1:B:247:TYR:CZ	1:D:196:SER:CB[8_565]	1.79	0.41
1:B:263:PHE:CZ	1:D:184:LEU:CD1[8_565]	1.79	0.41
1:B:264:GLY:CA	1:D:159:GLN:C[8_565]	1.79	0.41
1:B:265:GLY:CA	1:D:157:LYS:CA[8_565]	1.79	0.41
1:C:17:VAL:O	5:B:559:HOH:O[6_555]	1.79	0.41
1:D:82:GLU:CG	4:B:303:SO4:O4[8_655]	1.79	0.41
1:D:165:VAL:CA	5:B:564:HOH:O[8_655]	1.79	0.41
1:A:14:ARG:C	1:C:120:GLU:C[6_455]	1.80	0.40
1:A:19:GLU:CG	1:C:123:PHE:CD2[6_455]	1.80	0.40
1:A:30:GLY:O	1:D:47:GLY:N[7_555]	1.80	0.40
1:A:65:ILE:CD1	1:C:132:LEU:CD2[8_565]	1.80	0.40
1:A:81:VAL:O	1:C:136:GLY:O[8_565]	1.80	0.40
1:A:84:ALA:C	1:C:144:GLY:N[8_565]	1.80	0.40
1:A:105:ARG:N	1:C:127:PRO:N[8_565]	1.80	0.40
1:A:130:GLU:CD	1:D:133:PHE:CZ[7_555]	1.80	0.40
1:A:138:GLU:CG	1:D:215:LYS:N[7_555]	1.80	0.40
1:A:140:ASN:N	1:D:263:PHE:CB[7_555]	1.80	0.40
1:A:143:PHE:CZ	1:D:263:PHE:CZ[7_555]	1.80	0.40
1:A:150:VAL:CG2	1:C:217:LYS:C[8_565]	1.80	0.40
1:A:165:VAL:CG1	1:C:138:GLU:CB[8_565]	1.80	0.40
1:A:203:LYS:C	1:C:224:PHE:CB[8_565]	1.80	0.40
1:A:204:PRO:CG	1:C:249:PHE:CD1[8_565]	1.80	0.40
1:A:205:GLY:C	1:C:223:ALA:N[8_565]	1.80	0.40
1:A:206:MET:C	1:C:223:ALA:N[8_565]	1.80	0.40
1:A:218:GLU:N	1:D:142:ILE:CD1[7_555]	1.80	0.40
1:B:6:LEU:CD2	1:C:85:CYS:CA[7_555]	1.80	0.40
1:B:22:VAL:O	1:C:59:ALA:N[6_455]	1.80	0.40
1:B:23:VAL:CG2	1:C:61:ARG:CA[6_455]	1.80	0.40
1:B:40:ARG:N	1:C:40:ARG:CD[6_455]	1.80	0.40
1:B:40:ARG:O	1:C:56:PRO:CD[6_455]	1.80	0.40
1:B:60:ASN:O	1:C:23:VAL:CB[6_455]	1.80	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:77:ILE:N	1:C:113:PHE:CE2[7_555]	1.80	0.40
1:B:79:GLU:O	1:C:148:LEU:CG[7_555]	1.80	0.40
1:B:86:TYR:CD1	1:C:67:TRP:CE3[7_555]	1.80	0.40
1:B:88:VAL:C	1:C:64:ALA:N[7_555]	1.80	0.40
1:B:96:ALA:CB	1:D:57:GLY:CA[6_455]	1.80	0.40
1:B:110:ASN:CB	1:C:68:ASN:O[7_555]	1.80	0.40
1:B:124:PRO:C	1:D:90:THR:CG2[8_565]	1.80	0.40
1:B:127:PRO:CG	1:D:103:GLN:O[8_565]	1.80	0.40
1:B:143:PHE:C	1:D:84:ALA:O[8_565]	1.80	0.40
1:B:144:GLY:N	1:D:84:ALA:C[8_565]	1.80	0.40
1:B:159:GLN:CA	1:C:164:ASP:N[7_555]	1.80	0.40
1:B:162:PHE:CB	1:C:161:PHE:CA[7_555]	1.80	0.40
1:B:209:HIS:N	1:C:79:GLU:OE1[7_555]	1.80	0.40
1:B:216:SER:O	1:D:150:VAL:CG2[8_565]	1.80	0.40
1:B:223:ALA:N	1:D:205:GLY:O[8_565]	1.80	0.40
1:B:240:GLN:OE1	1:D:155:ARG:CZ[8_565]	1.80	0.40
1:B:247:TYR:CE2	1:D:196:SER:N[8_565]	1.80	0.40
1:B:248:SER:CB	1:D:153:ALA:CA[8_565]	1.80	0.40
1:B:249:PHE:CA	1:D:204:PRO:CG[8_565]	1.80	0.40
1:B:254:PRO:CB	1:C:255:ALA:CA[6_455]	1.80	0.40
1:B:261:LEU:CA	1:D:111:ASP:CG[8_565]	1.80	0.40
1:C:182:PHE:CE1	1:C:278:PHE:C[7_555]	1.80	0.40
1:A:14:ARG:N	1:C:102:ALA:N[6_455]	1.81	0.39
1:A:14:ARG:CD	1:C:119:VAL:C[6_455]	1.81	0.39
1:A:37:GLU:OE2	1:C:37:GLU:OE2[6_455]	1.81	0.39
1:A:57:GLY:CA	1:C:96:ALA:CB[6_455]	1.81	0.39
1:A:59:ALA:N	1:C:103:GLN:CG[6_455]	1.81	0.39
1:A:80:GLN:CB	1:C:138:GLU:C[8_565]	1.81	0.39
1:A:125:THR:CA	1:D:25:TYR:C[7_555]	1.81	0.39
1:A:125:THR:CG2	1:D:25:TYR:N[7_555]	1.81	0.39
1:A:149:VAL:CA	1:C:218:GLU:CB[8_565]	1.81	0.39
1:A:155:ARG:CA	1:C:246:VAL:C[8_565]	1.81	0.39
1:A:164:ASP:OD2	1:C:267:VAL:CG2[8_565]	1.81	0.39
1:A:196:SER:N	1:C:247:TYR:CE2[8_565]	1.81	0.39
1:A:196:SER:OG	1:C:247:TYR:OH[8_565]	1.81	0.39
1:B:6:LEU:CG	1:C:86:TYR:N[7_555]	1.81	0.39
1:B:7:GLY:O	1:D:87:SER:OG[8_565]	1.81	0.39
1:B:11:PHE:CA	1:C:19:GLU:N[6_455]	1.81	0.39
1:B:14:ARG:CB	1:C:25:TYR:CG[6_455]	1.81	0.39
1:B:18:LEU:O	1:C:12:GLU:C[6_455]	1.81	0.39
1:B:25:TYR:CD2	1:C:14:ARG:N[6_455]	1.81	0.39
1:B:25:TYR:CE1	1:C:14:ARG:CD[6_455]	1.81	0.39

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:57:GLY:N	1:C:33:VAL:CG1[6_455]	1.81	0.39
1:B:75:ALA:C	1:C:206:MET:N[7_555]	1.81	0.39
1:B:86:TYR:CZ	1:C:3:VAL:CG1[7_555]	1.81	0.39
1:B:103:GLN:CG	1:D:59:ALA:C[6_455]	1.81	0.39
1:B:105:ARG:CG	1:C:61:ARG:NH2[7_555]	1.81	0.39
1:B:111:ASP:CG	1:C:77:ILE:CG1[7_555]	1.81	0.39
1:B:116:GLU:C	1:C:108:ALA:CB[7_555]	1.81	0.39
1:B:117:LEU:CB	1:C:113:PHE:N[7_555]	1.81	0.39
1:B:118:TYR:CA	1:D:14:ARG:CZ[6_455]	1.81	0.39
1:B:118:TYR:CB	1:D:14:ARG:NH2[6_455]	1.81	0.39
1:B:129:LEU:CG	1:D:106:GLN:CG[8_565]	1.81	0.39
1:B:133:PHE:CD1	1:D:113:PHE:O[8_565]	1.81	0.39
1:B:140:ASN:CG	1:D:165:VAL:CA[8_565]	1.81	0.39
1:B:140:ASN:OD1	1:D:165:VAL:N[8_565]	1.81	0.39
1:B:148:LEU:O	1:C:83:LYS:CA[7_555]	1.81	0.39
1:B:164:ASP:N	1:C:159:GLN:CA[7_555]	1.81	0.39
1:B:222:ARG:NH1	1:D:148:LEU:CD1[8_565]	1.81	0.39
1:B:224:PHE:CE1	1:D:203:LYS:CA[8_565]	1.81	0.39
1:B:234:VAL:CG2	1:D:203:LYS:CG[8_565]	1.81	0.39
1:B:246:VAL:N	1:D:156:ALA:CB[8_565]	1.81	0.39
1:B:247:TYR:CB	1:D:155:ARG:CA[8_565]	1.81	0.39
1:B:254:PRO:CA	1:C:255:ALA:N[6_455]	1.81	0.39
1:D:279:TYR:CB	1:D:284:ILE:CD1[7_645]	1.81	0.39
1:A:32:VAL:O	1:D:126:ASP:OD2[7_555]	1.82	0.38
1:A:44:ARG:C	1:D:129:LEU:CB[7_555]	1.82	0.38
1:A:44:ARG:O	1:D:126:ASP:CG[7_555]	1.82	0.38
1:A:45:LEU:CB	1:D:129:LEU:CA[7_555]	1.82	0.38
1:A:113:PHE:O	1:C:133:PHE:CD1[8_565]	1.82	0.38
1:A:140:ASN:N	1:D:263:PHE:CA[7_555]	1.82	0.38
1:A:219:GLN:CD	1:D:136:GLY:CA[7_555]	1.82	0.38
1:B:3:VAL:CG2	1:C:86:TYR:CZ[7_555]	1.82	0.38
1:B:21:MET:C	1:C:60:ASN:OD1[6_455]	1.82	0.38
1:B:40:ARG:CB	1:C:39:GLY:C[6_455]	1.82	0.38
1:B:48:ARG:N	1:D:89:VAL:CB[8_565]	1.82	0.38
1:B:51:ARG:CD	1:D:87:SER:CA[8_565]	1.82	0.38
1:B:59:ALA:N	1:C:22:VAL:O[6_455]	1.82	0.38
1:B:60:ASN:N	1:C:21:MET:O[6_455]	1.82	0.38
1:B:67:TRP:NE1	1:C:107:PHE:CD1[7_555]	1.82	0.38
1:B:88:VAL:O	1:C:10:ILE:O[7_555]	1.82	0.38
1:B:103:GLN:CG	1:D:59:ALA:N[6_455]	1.82	0.38
1:B:103:GLN:OE1	1:D:59:ALA:CB[6_455]	1.82	0.38
1:B:127:PRO:N	1:D:105:ARG:N[8_565]	1.82	0.38

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:128:VAL:CG2	1:D:116:GLU:OE2[8.565]	1.82	0.38
1:B:136:GLY:CA	1:D:81:VAL:C[8.565]	1.82	0.38
1:B:167:GLY:N	1:C:158:THR:CB[7.555]	1.82	0.38
1:B:216:SER:CA	1:D:193:VAL:CG1[8.565]	1.82	0.38
1:B:217:LYS:C	1:D:150:VAL:CG2[8.565]	1.82	0.38
1:B:221:ASP:N	1:D:151:ILE:CA[8.565]	1.82	0.38
1:B:255:ALA:O	1:C:254:PRO:CB[6.455]	1.82	0.38
1:B:261:LEU:CB	1:D:111:ASP:CB[8.565]	1.82	0.38
1:B:263:PHE:C	1:D:159:GLN:N[8.565]	1.82	0.38
1:C:30:GLY:O	5:A:563:HOH:O[8.655]	1.82	0.38
1:A:16:ASP:N	1:C:120:GLU:OE1[6.455]	1.83	0.37
1:A:17:VAL:C	1:C:122:SER:CA[6.455]	1.83	0.37
1:A:29:ILE:CB	1:D:125:THR:OG1[7.555]	1.83	0.37
1:A:31:ALA:C	1:D:126:ASP:CB[7.555]	1.83	0.37
1:A:44:ARG:C	1:D:129:LEU:N[7.555]	1.83	0.37
1:A:45:LEU:CD2	1:D:126:ASP:O[7.555]	1.83	0.37
1:A:65:ILE:O	1:C:128:VAL:O[8.565]	1.83	0.37
1:A:104:VAL:CG1	1:C:126:ASP:OD1[8.565]	1.83	0.37
1:A:113:PHE:N	1:C:29:ILE:O[8.565]	1.83	0.37
1:A:127:PRO:O	1:D:45:LEU:CG[7.555]	1.83	0.37
1:A:137:GLU:OE1	1:D:223:ALA:CB[7.555]	1.83	0.37
1:A:139:ALA:N	1:D:262:GLY:O[7.555]	1.83	0.37
1:A:140:ASN:O	1:D:263:PHE:CE2[7.555]	1.83	0.37
1:A:153:ALA:N	1:C:248:SER:C[8.565]	1.83	0.37
1:A:154:ASP:OD2	1:C:244:ASP:OD2[8.565]	1.83	0.37
1:A:155:ARG:C	1:C:246:VAL:C[8.565]	1.83	0.37
1:A:198:PRO:CG	1:C:237:THR:C[8.565]	1.83	0.37
1:A:204:PRO:CA	1:C:249:PHE:CE1[8.565]	1.83	0.37
1:A:207:VAL:CA	1:C:222:ARG:N[8.565]	1.83	0.37
1:A:216:SER:CA	1:D:143:PHE:N[7.555]	1.83	0.37
1:A:218:GLU:CB	1:D:142:ILE:CG2[7.555]	1.83	0.37
1:A:219:GLN:CD	1:D:135:CYS:O[7.555]	1.83	0.37
1:A:263:PHE:C	1:D:140:ASN:ND2[7.555]	1.83	0.37
1:B:6:LEU:CB	1:C:85:CYS:CA[7.555]	1.83	0.37
1:B:15:ALA:C	1:C:52:ILE:CG2[6.455]	1.83	0.37
1:B:16:ASP:C	1:C:11:PHE:CD2[6.455]	1.83	0.37
1:B:37:GLU:OE2	1:D:37:GLU:OE2[6.455]	1.83	0.37
1:B:67:TRP:CD2	1:C:86:TYR:CE2[7.555]	1.83	0.37
1:B:75:ALA:CB	1:C:205:GLY:O[7.555]	1.83	0.37
1:B:77:ILE:CG1	1:C:111:ASP:CG[7.555]	1.83	0.37
1:B:79:GLU:N	1:C:150:VAL:CG1[7.555]	1.83	0.37
1:B:80:GLN:CG	1:C:150:VAL:CG2[7.555]	1.83	0.37

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:129:LEU:CD2	1:D:106:GLN:CD[8_565]	1.83	0.37
1:B:131:SER:OG	1:D:65:ILE:O[8_565]	1.83	0.37
1:B:132:LEU:N	1:D:115:HIS:CB[8_565]	1.83	0.37
1:B:132:LEU:O	1:D:115:HIS:CD2[8_565]	1.83	0.37
1:B:132:LEU:CD1	1:D:65:ILE:N[8_565]	1.83	0.37
1:B:133:PHE:N	1:D:115:HIS:ND1[8_565]	1.83	0.37
1:B:134:VAL:N	1:D:161:PHE:CE2[8_565]	1.83	0.37
1:B:138:GLU:CA	1:D:77:ILE:O[8_565]	1.83	0.37
1:B:143:PHE:N	1:D:84:ALA:CA[8_565]	1.83	0.37
1:B:148:LEU:C	1:C:83:LYS:CA[7_555]	1.83	0.37
1:B:215:LYS:CA	1:D:162:PHE:CE1[8_565]	1.83	0.37
1:B:223:ALA:N	1:D:205:GLY:C[8_565]	1.83	0.37
1:B:246:VAL:C	1:D:155:ARG:C[8_565]	1.83	0.37
1:B:255:ALA:N	1:C:254:PRO:CA[6_455]	1.83	0.37
1:B:267:VAL:CG2	1:D:164:ASP:CB[8_565]	1.83	0.37
1:C:31:ALA:CA	5:A:563:HOH:O[8_655]	1.83	0.37
1:C:170:LEU:CD2	1:C:276:VAL:O[7_555]	1.83	0.37
1:A:17:VAL:CB	1:C:120:GLU:O[6_455]	1.84	0.36
1:A:44:ARG:CA	1:D:128:VAL:CG2[7_555]	1.84	0.36
1:A:45:LEU:CA	1:D:130:GLU:N[7_555]	1.84	0.36
1:A:45:LEU:CG	1:D:130:GLU:N[7_555]	1.84	0.36
1:A:57:GLY:CA	1:C:101:ALA:O[6_455]	1.84	0.36
1:A:81:VAL:CG2	1:C:138:GLU:OE2[8_565]	1.84	0.36
1:A:83:LYS:CA	1:C:142:ILE:C[8_565]	1.84	0.36
1:A:89:VAL:CG1	1:C:48:ARG:N[8_565]	1.84	0.36
1:A:106:GLN:N	1:C:126:ASP:CB[8_565]	1.84	0.36
1:A:112:GLY:CA	1:C:29:ILE:CG1[8_565]	1.84	0.36
1:A:115:HIS:C	1:C:129:LEU:CA[8_565]	1.84	0.36
1:A:128:VAL:CB	1:D:51:ARG:N[7_555]	1.84	0.36
1:A:132:LEU:CG	1:D:135:CYS:SG[7_555]	1.84	0.36
1:A:143:PHE:N	1:D:216:SER:OG[7_555]	1.84	0.36
1:A:148:LEU:C	1:C:218:GLU:CB[8_565]	1.84	0.36
1:A:151:ILE:C	1:C:220:VAL:CB[8_565]	1.84	0.36
1:A:152:VAL:C	1:C:248:SER:C[8_565]	1.84	0.36
1:A:155:ARG:CA	1:C:247:TYR:CB[8_565]	1.84	0.36
1:A:158:THR:OG1	1:C:263:PHE:CA[8_565]	1.84	0.36
1:A:164:ASP:CA	1:C:140:ASN:ND2[8_565]	1.84	0.36
1:A:219:GLN:OE1	1:D:136:GLY:O[7_555]	1.84	0.36
1:A:263:PHE:CB	1:D:140:ASN:N[7_555]	1.84	0.36
1:B:14:ARG:CB	1:C:25:TYR:CE1[6_455]	1.84	0.36
1:B:18:LEU:CG	1:C:54:LEU:CA[6_455]	1.84	0.36
1:B:20:GLN:O	1:C:60:ASN:O[6_455]	1.84	0.36

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:21:MET:CA	1:C:60:ASN:CB[6_455]	1.84	0.36
1:B:83:LYS:CG	1:C:149:VAL:CA[7_555]	1.84	0.36
1:B:83:LYS:CE	1:C:149:VAL:CG2[7_555]	1.84	0.36
1:B:86:TYR:CD2	1:C:67:TRP:CG[7_555]	1.84	0.36
1:B:107:PHE:CB	1:C:65:ILE:C[7_555]	1.84	0.36
1:B:113:PHE:C	1:C:117:LEU:CB[7_555]	1.84	0.36
1:B:116:GLU:C	1:C:108:ALA:N[7_555]	1.84	0.36
1:B:123:PHE:CA	1:D:19:GLU:CB[6_455]	1.84	0.36
1:B:131:SER:CB	1:D:67:TRP:CG[8_565]	1.84	0.36
1:B:142:ILE:CA	1:D:83:LYS:CG[8_565]	1.84	0.36
1:B:148:LEU:O	1:C:83:LYS:CG[7_555]	1.84	0.36
1:B:150:VAL:CG1	1:C:79:GLU:N[7_555]	1.84	0.36
1:B:161:PHE:CA	1:C:162:PHE:CB[7_555]	1.84	0.36
1:B:221:ASP:C	1:D:206:MET:C[8_565]	1.84	0.36
1:B:246:VAL:C	1:D:155:ARG:CA[8_565]	1.84	0.36
1:B:246:VAL:CG2	1:D:157:LYS:N[8_565]	1.84	0.36
1:C:20:GLN:CA	5:B:511:HOH:O[6_555]	1.84	0.36
1:D:86:TYR:CE2	5:B:521:HOH:O[8_655]	1.84	0.36
1:D:133:PHE:N	5:A:561:HOH:O[7_555]	1.84	0.36
1:A:15:ALA:CB	1:C:120:GLU:OE2[6_455]	1.85	0.35
1:A:16:ASP:CG	1:C:120:GLU:CB[6_455]	1.85	0.35
1:A:45:LEU:CD2	1:D:130:GLU:N[7_555]	1.85	0.35
1:A:56:PRO:CB	1:C:100:ALA:CA[6_455]	1.85	0.35
1:A:80:GLN:C	1:C:141:GLY:O[8_565]	1.85	0.35
1:A:87:SER:N	1:C:51:ARG:NE[8_565]	1.85	0.35
1:A:90:THR:N	1:C:124:PRO:O[8_565]	1.85	0.35
1:A:90:THR:CB	1:C:124:PRO:CD[8_565]	1.85	0.35
1:A:111:ASP:O	1:C:29:ILE:CD1[8_565]	1.85	0.35
1:A:124:PRO:CG	1:D:26:GLN:CD[7_555]	1.85	0.35
1:A:129:LEU:O	1:D:45:LEU:CA[7_555]	1.85	0.35
1:A:131:SER:O	1:D:135:CYS:CB[7_555]	1.85	0.35
1:A:132:LEU:CA	1:D:135:CYS:CA[7_555]	1.85	0.35
1:A:134:VAL:N	1:D:133:PHE:O[7_555]	1.85	0.35
1:A:134:VAL:N	1:D:215:LYS:CE[7_555]	1.85	0.35
1:A:135:CYS:O	1:D:132:LEU:O[7_555]	1.85	0.35
1:A:135:CYS:O	1:D:219:GLN:CD[7_555]	1.85	0.35
1:A:136:GLY:CA	1:D:219:GLN:CD[7_555]	1.85	0.35
1:A:139:ALA:CB	1:D:262:GLY:C[7_555]	1.85	0.35
1:A:143:PHE:CE1	1:D:263:PHE:CE1[7_555]	1.85	0.35
1:A:153:ALA:O	1:C:287:HIS:NE2[8_565]	1.85	0.35
1:A:195:LEU:CD2	1:C:263:PHE:CD2[8_565]	1.85	0.35
1:A:196:SER:CB	1:C:247:TYR:CZ[8_565]	1.85	0.35

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:198:PRO:N	1:C:238:ILE:C[8_565]	1.85	0.35
1:A:203:LYS:CA	1:C:224:PHE:CE1[8_565]	1.85	0.35
1:A:203:LYS:NZ	1:C:234:VAL:CG2[8_565]	1.85	0.35
1:A:215:LYS:CE	1:D:134:VAL:N[7_555]	1.85	0.35
1:A:223:ALA:N	1:D:137:GLU:OE1[7_555]	1.85	0.35
1:A:262:GLY:O	1:D:139:ALA:N[7_555]	1.85	0.35
1:B:11:PHE:CD2	1:C:16:ASP:C[6_455]	1.85	0.35
1:B:12:GLU:C	1:C:18:LEU:O[6_455]	1.85	0.35
1:B:12:GLU:C	1:C:22:VAL:CG2[6_455]	1.85	0.35
1:B:19:GLU:CG	1:C:10:ILE:O[6_455]	1.85	0.35
1:B:37:GLU:OE1	1:D:37:GLU:CB[6_455]	1.85	0.35
1:B:40:ARG:CG	1:C:40:ARG:CA[6_455]	1.85	0.35
1:B:41:ALA:C	1:C:56:PRO:CA[6_455]	1.85	0.35
1:B:51:ARG:CZ	1:D:87:SER:CB[8_565]	1.85	0.35
1:B:55:ASP:OD1	1:C:35:ARG:NH1[6_455]	1.85	0.35
1:B:59:ALA:CA	1:C:22:VAL:O[6_455]	1.85	0.35
1:B:61:ARG:CB	1:C:23:VAL:CB[6_455]	1.85	0.35
1:B:87:SER:OG	1:C:8:TYR:O[7_555]	1.85	0.35
1:B:101:ALA:C	1:D:57:GLY:O[6_455]	1.85	0.35
1:B:114:THR:CG2	1:C:106:GLN:CB[7_555]	1.85	0.35
1:B:115:HIS:CE1	1:C:107:PHE:CZ[7_555]	1.85	0.35
1:B:126:ASP:C	1:D:105:ARG:O[8_565]	1.85	0.35
1:B:129:LEU:O	1:D:115:HIS:CB[8_565]	1.85	0.35
1:B:134:VAL:CA	1:D:161:PHE:CE1[8_565]	1.85	0.35
1:B:158:THR:N	1:C:167:GLY:O[7_555]	1.85	0.35
1:B:158:THR:O	1:C:167:GLY:N[7_555]	1.85	0.35
1:B:165:VAL:C	1:C:158:THR:CG2[7_555]	1.85	0.35
1:B:168:PHE:CB	1:C:160:SER:OG[7_555]	1.85	0.35
1:B:204:PRO:CG	1:C:73:ASP:OD1[7_555]	1.85	0.35
1:B:205:GLY:N	1:C:73:ASP:O[7_555]	1.85	0.35
1:B:217:LYS:CG	1:D:195:LEU:C[8_565]	1.85	0.35
1:B:246:VAL:N	1:D:156:ALA:CA[8_565]	1.85	0.35
1:B:249:PHE:CE2	1:D:204:PRO:O[8_565]	1.85	0.35
1:C:2:SER:CB	5:B:574:HOH:O[7_555]	1.85	0.35
1:C:31:ALA:O	5:A:512:HOH:O[8_655]	1.85	0.35
1:D:83:LYS:CE	5:B:509:HOH:O[8_655]	1.85	0.35
1:A:16:ASP:CB	1:C:120:GLU:CG[6_455]	1.86	0.34
1:A:26:GLN:CA	1:D:124:PRO:C[7_555]	1.86	0.34
1:A:80:GLN:N	1:C:137:GLU:C[8_565]	1.86	0.34
1:A:80:GLN:CD	1:C:141:GLY:CA[8_565]	1.86	0.34
1:A:84:ALA:O	1:C:143:PHE:C[8_565]	1.86	0.34
1:A:84:ALA:CB	1:C:143:PHE:CA[8_565]	1.86	0.34

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:87:SER:CA	1:C:51:ARG:NH2[8_565]	1.86	0.34
1:A:105:ARG:CD	1:C:125:THR:N[8_565]	1.86	0.34
1:A:107:PHE:CZ	1:C:133:PHE:C[8_565]	1.86	0.34
1:A:116:GLU:CA	1:C:128:VAL:O[8_565]	1.86	0.34
1:A:142:ILE:CD1	1:D:218:GLU:CB[7_555]	1.86	0.34
1:A:142:ILE:CD1	1:D:219:GLN:N[7_555]	1.86	0.34
1:A:150:VAL:CG2	1:C:216:SER:O[8_565]	1.86	0.34
1:A:195:LEU:CD2	1:C:263:PHE:CG[8_565]	1.86	0.34
1:A:196:SER:N	1:C:247:TYR:CZ[8_565]	1.86	0.34
1:A:202:LEU:N	1:C:224:PHE:CE2[8_565]	1.86	0.34
1:A:215:LYS:CG	1:D:134:VAL:O[7_555]	1.86	0.34
1:A:216:SER:N	1:D:143:PHE:CG[7_555]	1.86	0.34
1:B:10:ILE:O	1:C:88:VAL:O[7_555]	1.86	0.34
1:B:14:ARG:N	1:C:25:TYR:CD2[6_455]	1.86	0.34
1:B:22:VAL:O	1:C:59:ALA:CA[6_455]	1.86	0.34
1:B:27:ASP:OD1	1:D:61:ARG:CD[8_565]	1.86	0.34
1:B:36:ASP:O	1:C:40:ARG:CZ[6_455]	1.86	0.34
1:B:55:ASP:OD1	1:C:39:GLY:O[6_455]	1.86	0.34
1:B:57:GLY:C	1:C:33:VAL:CG2[6_455]	1.86	0.34
1:B:61:ARG:CA	1:C:23:VAL:CG2[6_455]	1.86	0.34
1:B:64:ALA:O	1:C:89:VAL:N[7_555]	1.86	0.34
1:B:77:ILE:CG1	1:C:111:ASP:CB[7_555]	1.86	0.34
1:B:90:THR:CG2	1:C:12:GLU:OE1[7_555]	1.86	0.34
1:B:116:GLU:OE2	1:C:106:GLN:CD[7_555]	1.86	0.34
1:B:117:LEU:CD2	1:C:109:ASP:OD1[7_555]	1.86	0.34
1:B:120:GLU:CB	1:D:16:ASP:CG[6_455]	1.86	0.34
1:B:120:GLU:CG	1:D:16:ASP:OD1[6_455]	1.86	0.34
1:B:128:VAL:O	1:D:116:GLU:CA[8_565]	1.86	0.34
1:B:142:ILE:CA	1:D:83:LYS:CA[8_565]	1.86	0.34
1:B:143:PHE:CA	1:D:84:ALA:CB[8_565]	1.86	0.34
1:B:148:LEU:N	1:C:83:LYS:N[7_555]	1.86	0.34
1:B:160:SER:CA	1:C:163:THR:CA[7_555]	1.86	0.34
1:B:164:ASP:C	1:C:195:LEU:CD1[7_555]	1.86	0.34
1:B:206:MET:N	1:C:75:ALA:C[7_555]	1.86	0.34
1:B:218:GLU:CB	1:D:149:VAL:C[8_565]	1.86	0.34
1:B:245:LYS:CB	1:D:156:ALA:CB[8_565]	1.86	0.34
1:B:248:SER:C	1:D:153:ALA:N[8_565]	1.86	0.34
1:B:260:GLU:O	1:D:110:ASN:O[8_565]	1.86	0.34
1:C:240:GLN:OE1	5:A:544:HOH:O[8_655]	1.86	0.34
1:D:13:CYS:N	5:B:537:HOH:O[6_555]	1.86	0.34
1:D:245:LYS:CE	1:D:279:TYR:CZ[7_645]	1.86	0.34
1:D:279:TYR:CD1	1:D:284:ILE:CD1[7_645]	1.86	0.34

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:16:ASP:C	1:C:120:GLU:CG[6_455]	1.87	0.33
1:A:58:PRO:C	1:C:103:GLN:N[6_455]	1.87	0.33
1:A:59:ALA:O	1:C:102:ALA:C[6_455]	1.87	0.33
1:A:79:GLU:N	1:C:137:GLU:CB[8_565]	1.87	0.33
1:A:80:GLN:CB	1:C:141:GLY:O[8_565]	1.87	0.33
1:A:88:VAL:N	1:C:46:ASP:CG[8_565]	1.87	0.33
1:A:115:HIS:O	1:C:130:GLU:N[8_565]	1.87	0.33
1:A:116:GLU:C	1:C:127:PRO:C[8_565]	1.87	0.33
1:A:116:GLU:CG	1:C:129:LEU:CA[8_565]	1.87	0.33
1:A:128:VAL:CG2	1:D:43:VAL:O[7_555]	1.87	0.33
1:A:134:VAL:CG1	1:D:215:LYS:CG[7_555]	1.87	0.33
1:A:135:CYS:CA	1:D:131:SER:O[7_555]	1.87	0.33
1:A:135:CYS:O	1:D:219:GLN:NE2[7_555]	1.87	0.33
1:A:156:ALA:N	1:C:246:VAL:CA[8_565]	1.87	0.33
1:A:215:LYS:O	1:D:143:PHE:CD1[7_555]	1.87	0.33
1:B:9:LEU:CD2	1:C:82:GLU:OE1[7_555]	1.87	0.33
1:B:46:ASP:O	1:D:106:GLN:O[8_565]	1.87	0.33
1:B:51:ARG:CD	1:D:87:SER:N[8_565]	1.87	0.33
1:B:60:ASN:OD1	1:C:21:MET:CA[6_455]	1.87	0.33
1:B:64:ALA:N	1:C:88:VAL:C[7_555]	1.87	0.33
1:B:69:VAL:CG1	1:C:110:ASN:CA[7_555]	1.87	0.33
1:B:89:VAL:C	1:C:63:ALA:O[7_555]	1.87	0.33
1:B:107:PHE:CA	1:C:116:GLU:N[7_555]	1.87	0.33
1:B:108:ALA:N	1:C:116:GLU:CA[7_555]	1.87	0.33
1:B:113:PHE:CZ	1:C:77:ILE:C[7_555]	1.87	0.33
1:B:115:HIS:O	1:C:115:HIS:N[7_555]	1.87	0.33
1:B:120:GLU:O	1:D:17:VAL:CG2[6_455]	1.87	0.33
1:B:127:PRO:CD	1:D:104:VAL:C[8_565]	1.87	0.33
1:B:158:THR:N	1:C:167:GLY:N[7_555]	1.87	0.33
1:B:167:GLY:N	1:C:158:THR:O[7_555]	1.87	0.33
1:B:167:GLY:O	1:C:158:THR:N[7_555]	1.87	0.33
1:B:217:LYS:O	1:D:150:VAL:CG2[8_565]	1.87	0.33
1:B:220:VAL:CB	1:D:151:ILE:C[8_565]	1.87	0.33
1:B:222:ARG:N	1:D:207:VAL:CA[8_565]	1.87	0.33
1:B:245:LYS:C	1:D:156:ALA:N[8_565]	1.87	0.33
1:B:248:SER:C	1:D:152:VAL:C[8_565]	1.87	0.33
1:B:249:PHE:CD1	1:D:204:PRO:N[8_565]	1.87	0.33
1:C:173:ARG:CZ	1:C:279:TYR:O[7_555]	1.87	0.33
1:A:13:CYS:C	1:C:121:SER:OG[6_455]	1.88	0.32
1:A:15:ALA:CB	1:C:48:ARG:CZ[6_455]	1.88	0.32
1:A:25:TYR:N	1:D:125:THR:CG2[7_555]	1.88	0.32
1:A:45:LEU:CA	1:D:129:LEU:N[7_555]	1.88	0.32

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:46:ASP:N	1:D:129:LEU:CG[7_555]	1.88	0.32
1:A:86:TYR:O	1:C:136:GLY:N[8_565]	1.88	0.32
1:A:90:THR:CB	1:C:124:PRO:O[8_565]	1.88	0.32
1:A:104:VAL:C	1:C:126:ASP:N[8_565]	1.88	0.32
1:A:105:ARG:CG	1:C:125:THR:CA[8_565]	1.88	0.32
1:A:111:ASP:CG	1:C:261:LEU:CA[8_565]	1.88	0.32
1:A:111:ASP:OD2	1:C:262:GLY:O[8_565]	1.88	0.32
1:A:115:HIS:ND1	1:C:133:PHE:N[8_565]	1.88	0.32
1:A:116:GLU:CA	1:C:130:GLU:N[8_565]	1.88	0.32
1:A:124:PRO:C	1:D:26:GLN:CA[7_555]	1.88	0.32
1:A:125:THR:CG2	1:D:25:TYR:O[7_555]	1.88	0.32
1:A:129:LEU:CB	1:D:44:ARG:O[7_555]	1.88	0.32
1:A:134:VAL:O	1:D:215:LYS:CG[7_555]	1.88	0.32
1:A:141:GLY:C	1:D:216:SER:O[7_555]	1.88	0.32
1:A:142:ILE:CB	1:D:218:GLU:CA[7_555]	1.88	0.32
1:A:154:ASP:N	1:C:248:SER:CA[8_565]	1.88	0.32
1:A:164:ASP:CB	1:C:267:VAL:CG2[8_565]	1.88	0.32
1:A:193:VAL:C	1:C:218:GLU:OE2[8_565]	1.88	0.32
1:A:195:LEU:N	1:C:217:LYS:CG[8_565]	1.88	0.32
1:A:197:ALA:N	1:C:247:TYR:CD1[8_565]	1.88	0.32
1:A:204:PRO:CG	1:C:249:PHE:C[8_565]	1.88	0.32
1:A:216:SER:CA	1:D:143:PHE:CG[7_555]	1.88	0.32
1:B:8:TYR:O	1:C:87:SER:OG[7_555]	1.88	0.32
1:B:10:ILE:O	1:C:19:GLU:CG[6_455]	1.88	0.32
1:B:37:GLU:C	1:C:40:ARG:NH1[6_455]	1.88	0.32
1:B:46:ASP:CG	1:D:87:SER:O[8_565]	1.88	0.32
1:B:55:ASP:CB	1:C:35:ARG:NE[6_455]	1.88	0.32
1:B:82:GLU:CB	1:C:148:LEU:CD1[7_555]	1.88	0.32
1:B:103:GLN:N	1:D:58:PRO:C[6_455]	1.88	0.32
1:B:105:ARG:CD	1:C:62:LEU:O[7_555]	1.88	0.32
1:B:108:ALA:CA	1:C:117:LEU:N[7_555]	1.88	0.32
1:B:113:PHE:CD1	1:C:78:ALA:N[7_555]	1.88	0.32
1:B:114:THR:OG1	1:C:105:ARG:CA[7_555]	1.88	0.32
1:B:130:GLU:N	1:D:116:GLU:CA[8_565]	1.88	0.32
1:B:167:GLY:N	1:C:158:THR:N[7_555]	1.88	0.32
1:B:215:LYS:CE	1:D:166:LEU:CD1[8_565]	1.88	0.32
1:B:246:VAL:CA	1:D:154:ASP:OD1[8_565]	1.88	0.32
1:B:247:TYR:C	1:D:155:ARG:N[8_565]	1.88	0.32
1:B:248:SER:CA	1:D:153:ALA:CA[8_565]	1.88	0.32
1:C:104:VAL:C	5:B:563:HOH:O[7_555]	1.88	0.32
1:C:180:ASP:OD2	1:C:279:TYR:C[7_555]	1.88	0.32
1:C:180:ASP:OD2	1:C:279:TYR:O[7_555]	1.88	0.32

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:204:PRO:C	5:B:515:HOH:O[7_555]	1.88	0.32
1:D:82:GLU:CB	4:B:303:SO4:O3[8_655]	1.88	0.32
1:D:113:PHE:CZ	5:B:536:HOH:O[8_655]	1.88	0.32
1:A:32:VAL:CG2	1:D:44:ARG:NE[7_555]	1.89	0.31
1:A:80:GLN:CD	1:C:141:GLY:N[8_565]	1.89	0.31
1:A:83:LYS:CB	1:C:142:ILE:C[8_565]	1.89	0.31
1:A:83:LYS:CB	1:C:142:ILE:N[8_565]	1.89	0.31
1:A:87:SER:OG	1:C:7:GLY:O[8_565]	1.89	0.31
1:A:107:PHE:N	1:C:46:ASP:N[8_565]	1.89	0.31
1:A:107:PHE:N	1:C:46:ASP:CA[8_565]	1.89	0.31
1:A:110:ASN:ND2	1:C:211:MET:C[8_565]	1.89	0.31
1:A:126:ASP:O	1:D:45:LEU:CD2[7_555]	1.89	0.31
1:A:130:GLU:OE2	1:D:30:GLY:C[7_555]	1.89	0.31
1:A:150:VAL:CG1	1:C:218:GLU:O[8_565]	1.89	0.31
1:A:153:ALA:C	1:C:248:SER:C[8_565]	1.89	0.31
1:A:160:SER:OG	1:C:265:GLY:O[8_565]	1.89	0.31
1:A:162:PHE:CE1	1:C:216:SER:N[8_565]	1.89	0.31
1:A:206:MET:CE	1:C:225:ALA:N[8_565]	1.89	0.31
1:A:214:ALA:CB	1:D:138:GLU:CG[7_555]	1.89	0.31
1:A:219:GLN:CG	1:D:137:GLU:CA[7_555]	1.89	0.31
1:B:13:CYS:SG	1:C:18:LEU:CA[6_455]	1.89	0.31
1:B:25:TYR:CE1	1:C:14:ARG:CB[6_455]	1.89	0.31
1:B:46:ASP:N	1:D:107:PHE:N[8_565]	1.89	0.31
1:B:46:ASP:CA	1:D:107:PHE:N[8_565]	1.89	0.31
1:B:67:TRP:CB	1:C:108:ALA:O[7_555]	1.89	0.31
1:B:85:CYS:CA	1:C:6:LEU:CB[7_555]	1.89	0.31
1:B:90:THR:CA	1:C:63:ALA:CA[7_555]	1.89	0.31
1:B:103:GLN:CB	1:D:59:ALA:CB[6_455]	1.89	0.31
1:B:107:PHE:CE2	1:C:115:HIS:CE1[7_555]	1.89	0.31
1:B:115:HIS:CE1	1:C:107:PHE:CE2[7_555]	1.89	0.31
1:B:117:LEU:CG	1:C:113:PHE:C[7_555]	1.89	0.31
1:B:122:SER:CA	1:D:18:LEU:C[6_455]	1.89	0.31
1:B:123:PHE:CA	1:D:19:GLU:O[6_455]	1.89	0.31
1:B:123:PHE:CD1	1:D:88:VAL:O[8_565]	1.89	0.31
1:B:125:THR:N	1:D:105:ARG:CD[8_565]	1.89	0.31
1:B:129:LEU:CA	1:D:116:GLU:CG[8_565]	1.89	0.31
1:B:136:GLY:N	1:D:81:VAL:C[8_565]	1.89	0.31
1:B:136:GLY:O	1:D:81:VAL:O[8_565]	1.89	0.31
1:B:137:GLU:CD	1:D:79:GLU:CG[8_565]	1.89	0.31
1:B:141:GLY:O	1:D:80:GLN:CB[8_565]	1.89	0.31
1:B:161:PHE:CE1	1:C:162:PHE:CE2[7_555]	1.89	0.31
1:B:162:PHE:CA	1:C:162:PHE:CA[7_555]	1.89	0.31

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:165:VAL:C	1:C:162:PHE:CE1[7_555]	1.89	0.31
1:B:165:VAL:CB	1:C:162:PHE:CE1[7_555]	1.89	0.31
1:B:166:LEU:C	1:C:158:THR:CB[7_555]	1.89	0.31
1:B:168:PHE:CD2	1:C:161:PHE:CB[7_555]	1.89	0.31
1:B:205:GLY:CA	1:C:73:ASP:O[7_555]	1.89	0.31
1:B:215:LYS:CA	1:D:162:PHE:CZ[8_565]	1.89	0.31
1:B:224:PHE:CG	1:D:203:LYS:C[8_565]	1.89	0.31
1:B:225:ALA:C	1:D:206:MET:CE[8_565]	1.89	0.31
1:B:238:ILE:C	1:D:198:PRO:N[8_565]	1.89	0.31
1:B:246:VAL:CA	1:D:157:LYS:N[8_565]	1.89	0.31
1:B:249:PHE:O	1:D:153:ALA:CB[8_565]	1.89	0.31
1:B:254:PRO:CA	1:C:255:ALA:CA[6_455]	1.89	0.31
1:C:173:ARG:CG	1:C:278:PHE:CD1[7_555]	1.89	0.31
1:D:13:CYS:SG	5:B:518:HOH:O[6_555]	1.89	0.31
1:A:19:GLU:CB	1:C:123:PHE:CA[6_455]	1.90	0.30
1:A:57:GLY:N	1:C:101:ALA:C[6_455]	1.90	0.30
1:A:61:ARG:NE	1:C:26:GLN:C[8_565]	1.90	0.30
1:A:78:ALA:O	1:C:137:GLU:CA[8_565]	1.90	0.30
1:A:84:ALA:CA	1:C:143:PHE:N[8_565]	1.90	0.30
1:A:88:VAL:CA	1:C:46:ASP:OD1[8_565]	1.90	0.30
1:A:111:ASP:C	1:C:261:LEU:CG[8_565]	1.90	0.30
1:A:124:PRO:CA	1:D:26:GLN:CG[7_555]	1.90	0.30
1:A:133:PHE:CE2	1:D:130:GLU:CG[7_555]	1.90	0.30
1:A:134:VAL:C	1:D:215:LYS:CD[7_555]	1.90	0.30
1:A:135:CYS:N	1:D:132:LEU:C[7_555]	1.90	0.30
1:A:138:GLU:OE1	1:D:215:LYS:N[7_555]	1.90	0.30
1:A:149:VAL:C	1:C:218:GLU:CB[8_565]	1.90	0.30
1:A:150:VAL:CG2	1:C:217:LYS:O[8_565]	1.90	0.30
1:A:153:ALA:CA	1:C:248:SER:CA[8_565]	1.90	0.30
1:A:154:ASP:C	1:C:247:TYR:N[8_565]	1.90	0.30
1:A:154:ASP:O	1:C:246:VAL:CB[8_565]	1.90	0.30
1:A:156:ALA:CA	1:C:246:VAL:N[8_565]	1.90	0.30
1:A:157:LYS:N	1:C:246:VAL:N[8_565]	1.90	0.30
1:A:196:SER:O	1:C:247:TYR:CD2[8_565]	1.90	0.30
1:A:215:LYS:CB	1:D:134:VAL:O[7_555]	1.90	0.30
1:A:215:LYS:CD	1:D:134:VAL:CA[7_555]	1.90	0.30
1:A:217:LYS:CA	1:D:141:GLY:O[7_555]	1.90	0.30
1:A:218:GLU:OE2	1:D:142:ILE:C[7_555]	1.90	0.30
1:A:219:GLN:CA	1:D:137:GLU:CG[7_555]	1.90	0.30
1:A:262:GLY:C	1:D:139:ALA:CB[7_555]	1.90	0.30
1:B:12:GLU:CA	1:C:22:VAL:CB[6_455]	1.90	0.30
1:B:19:GLU:N	1:C:11:PHE:C[6_455]	1.90	0.30

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:33:VAL:CB	1:C:57:GLY:CA[6_455]	1.90	0.30
1:B:40:ARG:NH2	1:C:37:GLU:C[6_455]	1.90	0.30
1:B:45:LEU:C	1:D:107:PHE:CB[8_565]	1.90	0.30
1:B:47:GLY:O	1:D:89:VAL:C[8_565]	1.90	0.30
1:B:54:LEU:CA	1:C:18:LEU:CD1[6_455]	1.90	0.30
1:B:54:LEU:CA	1:C:18:LEU:CD2[6_455]	1.90	0.30
1:B:58:PRO:CA	1:C:33:VAL:CG2[6_455]	1.90	0.30
1:B:58:PRO:O	1:C:26:GLN:N[6_455]	1.90	0.30
1:B:60:ASN:ND2	1:C:24:VAL:CG2[6_455]	1.90	0.30
1:B:65:ILE:C	1:C:107:PHE:CB[7_555]	1.90	0.30
1:B:73:ASP:O	1:C:205:GLY:CA[7_555]	1.90	0.30
1:B:82:GLU:CA	1:C:148:LEU:CD2[7_555]	1.90	0.30
1:B:82:GLU:CB	1:C:148:LEU:CG[7_555]	1.90	0.30
1:B:90:THR:C	1:C:12:GLU:OE2[7_555]	1.90	0.30
1:B:96:ALA:O	1:D:56:PRO:C[6_455]	1.90	0.30
1:B:107:PHE:O	1:C:115:HIS:O[7_555]	1.90	0.30
1:B:107:PHE:CD2	1:C:115:HIS:CG[7_555]	1.90	0.30
1:B:110:ASN:N	1:C:69:VAL:CG1[7_555]	1.90	0.30
1:B:116:GLU:N	1:C:107:PHE:CA[7_555]	1.90	0.30
1:B:120:GLU:CG	1:D:16:ASP:CG[6_455]	1.90	0.30
1:B:126:ASP:N	1:D:104:VAL:C[8_565]	1.90	0.30
1:B:148:LEU:CG	1:C:79:GLU:O[7_555]	1.90	0.30
1:B:150:VAL:CG2	1:C:80:GLN:CG[7_555]	1.90	0.30
1:B:157:LYS:NZ	1:C:187:ASN:CA[7_555]	1.90	0.30
1:B:158:THR:C	1:C:167:GLY:CA[7_555]	1.90	0.30
1:B:158:THR:OG1	1:C:166:LEU:O[7_555]	1.90	0.30
1:B:162:PHE:CD1	1:C:166:LEU:N[7_555]	1.90	0.30
1:B:165:VAL:CG1	1:C:162:PHE:CE1[7_555]	1.90	0.30
1:B:187:ASN:ND2	1:D:83:LYS:O[8_565]	1.90	0.30
1:B:193:VAL:CG1	1:C:80:GLN:O[7_555]	1.90	0.30
1:B:205:GLY:C	1:C:75:ALA:N[7_555]	1.90	0.30
1:B:212:LEU:CD1	1:D:109:ASP:O[8_565]	1.90	0.30
1:B:249:PHE:CD2	1:D:204:PRO:C[8_565]	1.90	0.30
1:B:262:GLY:CA	1:D:111:ASP:OD2[8_565]	1.90	0.30
1:B:287:HIS:NE2	1:D:153:ALA:O[8_565]	1.90	0.30
1:C:17:VAL:CA	5:B:557:HOH:O[6_555]	1.90	0.30
1:A:19:GLU:C	1:C:123:PHE:O[6_455]	1.91	0.29
1:A:87:SER:CA	1:C:51:ARG:NH1[8_565]	1.91	0.29
1:A:104:VAL:CB	1:C:127:PRO:CD[8_565]	1.91	0.29
1:A:105:ARG:O	1:C:126:ASP:C[8_565]	1.91	0.29
1:A:110:ASN:CG	1:C:212:LEU:CA[8_565]	1.91	0.29
1:A:131:SER:O	1:D:135:CYS:CA[7_555]	1.91	0.29

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:155:ARG:CZ	1:C:240:GLN:OE1[8_565]	1.91	0.29
1:A:204:PRO:N	1:C:249:PHE:CD2[8_565]	1.91	0.29
1:A:215:LYS:N	1:D:138:GLU:CG[7_555]	1.91	0.29
1:A:262:GLY:C	1:D:139:ALA:CA[7_555]	1.91	0.29
1:B:18:LEU:CB	1:C:54:LEU:CD2[6_455]	1.91	0.29
1:B:26:GLN:O	1:D:61:ARG:CZ[8_565]	1.91	0.29
1:B:38:GLY:C	1:C:36:ASP:OD2[6_455]	1.91	0.29
1:B:40:ARG:CD	1:C:40:ARG:N[6_455]	1.91	0.29
1:B:51:ARG:NH2	1:D:87:SER:CA[8_565]	1.91	0.29
1:B:63:ALA:O	1:C:89:VAL:C[7_555]	1.91	0.29
1:B:77:ILE:C	1:C:113:PHE:CZ[7_555]	1.91	0.29
1:B:82:GLU:CA	1:C:148:LEU:CB[7_555]	1.91	0.29
1:B:102:ALA:CA	1:D:13:CYS:C[6_455]	1.91	0.29
1:B:103:GLN:CD	1:D:59:ALA:CA[6_455]	1.91	0.29
1:B:106:GLN:CA	1:C:114:THR:CB[7_555]	1.91	0.29
1:B:107:PHE:CD1	1:C:67:TRP:CD1[7_555]	1.91	0.29
1:B:109:ASP:C	1:C:67:TRP:O[7_555]	1.91	0.29
1:B:115:HIS:CG	1:C:107:PHE:CD2[7_555]	1.91	0.29
1:B:116:GLU:CD	1:C:106:GLN:NE2[7_555]	1.91	0.29
1:B:118:TYR:O	1:D:14:ARG:NH2[6_455]	1.91	0.29
1:B:123:PHE:C	1:D:19:GLU:C[6_455]	1.91	0.29
1:B:133:PHE:N	1:D:115:HIS:CB[8_565]	1.91	0.29
1:B:142:ILE:CD1	1:D:83:LYS:CD[8_565]	1.91	0.29
1:B:150:VAL:N	1:C:80:GLN:CD[7_555]	1.91	0.29
1:B:151:ILE:C	1:C:76:ALA:CB[7_555]	1.91	0.29
1:B:212:LEU:CD2	1:D:110:ASN:OD1[8_565]	1.91	0.29
1:B:217:LYS:CE	1:D:195:LEU:O[8_565]	1.91	0.29
1:B:219:GLN:CD	1:D:65:ILE:CD1[8_565]	1.91	0.29
1:B:248:SER:C	1:D:153:ALA:C[8_565]	1.91	0.29
1:A:13:CYS:C	1:C:102:ALA:CA[6_455]	1.92	0.28
1:A:86:TYR:N	1:C:145:LEU:N[8_565]	1.92	0.28
1:A:87:SER:CA	1:C:51:ARG:CD[8_565]	1.92	0.28
1:A:90:THR:CG2	1:C:124:PRO:C[8_565]	1.92	0.28
1:A:110:ASN:CA	1:C:212:LEU:C[8_565]	1.92	0.28
1:A:115:HIS:CG	1:C:132:LEU:O[8_565]	1.92	0.28
1:A:125:THR:CB	1:D:25:TYR:CA[7_555]	1.92	0.28
1:A:129:LEU:CD1	1:D:46:ASP:C[7_555]	1.92	0.28
1:A:129:LEU:CD1	1:D:46:ASP:O[7_555]	1.92	0.28
1:A:130:GLU:CB	1:D:45:LEU:CD2[7_555]	1.92	0.28
1:A:132:LEU:CD1	1:D:46:ASP:OD2[7_555]	1.92	0.28
1:A:133:PHE:O	1:D:134:VAL:N[7_555]	1.92	0.28
1:A:138:GLU:CD	1:D:214:ALA:CB[7_555]	1.92	0.28

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:148:LEU:O	1:C:218:GLU:OE2[8_565]	1.92	0.28
1:A:156:ALA:CB	1:C:246:VAL:N[8_565]	1.92	0.28
1:A:157:LYS:CA	1:C:265:GLY:CA[8_565]	1.92	0.28
1:A:158:THR:OG1	1:C:262:GLY:O[8_565]	1.92	0.28
1:A:214:ALA:CB	1:D:138:GLU:CA[7_555]	1.92	0.28
1:B:11:PHE:C	1:C:19:GLU:N[6_455]	1.92	0.28
1:B:18:LEU:CD1	1:C:54:LEU:O[6_455]	1.92	0.28
1:B:21:MET:O	1:C:60:ASN:N[6_455]	1.92	0.28
1:B:22:VAL:CG1	1:C:12:GLU:CB[6_455]	1.92	0.28
1:B:25:TYR:CD1	1:C:14:ARG:NE[6_455]	1.92	0.28
1:B:37:GLU:OE2	1:D:37:GLU:OE1[6_455]	1.92	0.28
1:B:45:LEU:CB	1:D:108:ALA:CA[8_565]	1.92	0.28
1:B:46:ASP:CB	1:D:106:GLN:O[8_565]	1.92	0.28
1:B:67:TRP:CE3	1:C:86:TYR:CD1[7_555]	1.92	0.28
1:B:75:ALA:O	1:C:205:GLY:O[7_555]	1.92	0.28
1:B:76:ALA:CB	1:C:151:ILE:C[7_555]	1.92	0.28
1:B:82:GLU:CB	1:C:148:LEU:CD2[7_555]	1.92	0.28
1:B:82:GLU:CD	1:C:9:LEU:CD2[7_555]	1.92	0.28
1:B:83:LYS:CG	1:C:148:LEU:O[7_555]	1.92	0.28
1:B:110:ASN:O	1:C:69:VAL:C[7_555]	1.92	0.28
1:B:119:VAL:CG1	1:D:60:ASN:ND2[6_455]	1.92	0.28
1:B:120:GLU:C	1:D:14:ARG:C[6_455]	1.92	0.28
1:B:124:PRO:O	1:D:90:THR:N[8_565]	1.92	0.28
1:B:124:PRO:O	1:D:90:THR:OG1[8_565]	1.92	0.28
1:B:127:PRO:CB	1:D:117:LEU:O[8_565]	1.92	0.28
1:B:131:SER:CB	1:D:67:TRP:CB[8_565]	1.92	0.28
1:B:135:CYS:C	1:D:81:VAL:CG1[8_565]	1.92	0.28
1:B:140:ASN:OD1	1:D:165:VAL:C[8_565]	1.92	0.28
1:B:158:THR:CG2	1:C:165:VAL:C[7_555]	1.92	0.28
1:B:163:THR:CA	1:C:160:SER:CA[7_555]	1.92	0.28
1:B:165:VAL:CB	1:C:162:PHE:CD1[7_555]	1.92	0.28
1:B:218:GLU:CD	1:D:148:LEU:C[8_565]	1.92	0.28
1:B:219:GLN:C	1:D:113:PHE:CZ[8_565]	1.92	0.28
1:B:238:ILE:C	1:D:198:PRO:CD[8_565]	1.92	0.28
1:B:257:PHE:CD2	1:C:20:GLN:CD[6_455]	1.92	0.28
1:C:20:GLN:N	5:B:559:HOH:O[6_555]	1.92	0.28
1:C:20:GLN:CA	5:B:559:HOH:O[6_555]	1.92	0.28
1:C:182:PHE:CZ	1:C:278:PHE:O[7_555]	1.92	0.28
1:D:113:PHE:CB	5:B:519:HOH:O[8_655]	1.92	0.28
1:A:25:TYR:O	1:D:125:THR:OG1[7_555]	1.93	0.27
1:A:57:GLY:O	1:C:102:ALA:N[6_455]	1.93	0.27
1:A:88:VAL:O	1:C:123:PHE:CD1[8_565]	1.93	0.27

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:106:GLN:C	1:C:46:ASP:N[8.565]	1.93	0.27
1:A:106:GLN:CB	1:C:129:LEU:CD2[8.565]	1.93	0.27
1:A:129:LEU:N	1:D:45:LEU:CA[7.555]	1.93	0.27
1:A:137:GLU:CG	1:D:219:GLN:CA[7.555]	1.93	0.27
1:A:140:ASN:OD1	1:D:264:GLY:N[7.555]	1.93	0.27
1:A:143:PHE:N	1:D:216:SER:CA[7.555]	1.93	0.27
1:A:149:VAL:CA	1:C:218:GLU:OE1[8.565]	1.93	0.27
1:A:154:ASP:CA	1:C:248:SER:OG[8.565]	1.93	0.27
1:A:155:ARG:NH2	1:C:240:GLN:CG[8.565]	1.93	0.27
1:A:159:GLN:C	1:C:264:GLY:CA[8.565]	1.93	0.27
1:A:196:SER:C	1:C:247:TYR:CD1[8.565]	1.93	0.27
1:A:204:PRO:CB	1:C:249:PHE:CD2[8.565]	1.93	0.27
1:A:216:SER:C	1:D:141:GLY:C[7.555]	1.93	0.27
1:B:20:GLN:CD	1:C:257:PHE:CD2[6.455]	1.93	0.27
1:B:21:MET:CB	1:C:60:ASN:CG[6.455]	1.93	0.27
1:B:29:ILE:O	1:D:113:PHE:CA[8.565]	1.93	0.27
1:B:33:VAL:CB	1:C:58:PRO:CD[6.455]	1.93	0.27
1:B:48:ARG:N	1:D:89:VAL:CG1[8.565]	1.93	0.27
1:B:54:LEU:CD1	1:C:13:CYS:CB[6.455]	1.93	0.27
1:B:55:ASP:O	1:C:41:ALA:CB[6.455]	1.93	0.27
1:B:64:ALA:N	1:C:89:VAL:O[7.555]	1.93	0.27
1:B:65:ILE:N	1:C:106:GLN:O[7.555]	1.93	0.27
1:B:65:ILE:N	1:C:88:VAL:CA[7.555]	1.93	0.27
1:B:65:ILE:CG1	1:C:88:VAL:CB[7.555]	1.93	0.27
1:B:69:VAL:CG1	1:C:110:ASN:N[7.555]	1.93	0.27
1:B:89:VAL:O	1:C:64:ALA:N[7.555]	1.93	0.27
1:B:113:PHE:N	1:C:117:LEU:CB[7.555]	1.93	0.27
1:B:113:PHE:CE2	1:C:77:ILE:N[7.555]	1.93	0.27
1:B:120:GLU:OE2	1:D:15:ALA:CB[6.455]	1.93	0.27
1:B:123:PHE:O	1:D:90:THR:OG1[8.565]	1.93	0.27
1:B:142:ILE:C	1:D:83:LYS:CB[8.565]	1.93	0.27
1:B:158:THR:CG2	1:C:166:LEU:CA[7.555]	1.93	0.27
1:B:161:PHE:CD1	1:C:162:PHE:CD2[7.555]	1.93	0.27
1:B:162:PHE:N	1:C:161:PHE:C[7.555]	1.93	0.27
1:B:167:GLY:CA	1:C:158:THR:C[7.555]	1.93	0.27
1:B:215:LYS:NZ	1:D:166:LEU:CD2[8.565]	1.93	0.27
1:B:225:ALA:C	1:D:206:MET:SD[8.565]	1.93	0.27
1:B:249:PHE:C	1:D:204:PRO:CG[8.565]	1.93	0.27
1:B:262:GLY:O	1:D:158:THR:OG1[8.565]	1.93	0.27
1:C:20:GLN:C	5:B:559:HOH:O[6.555]	1.93	0.27
1:C:24:VAL:CG1	5:B:560:HOH:O[6.555]	1.93	0.27
1:C:105:ARG:CA	5:B:563:HOH:O[7.555]	1.93	0.27

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:207:VAL:N	3:B:302:P6G:C17[6_555]	1.93	0.27
1:C:240:GLN:CB	5:A:544:HOH:O[8_655]	1.93	0.27
1:A:19:GLU:C	1:C:123:PHE:C[6_455]	1.94	0.26
1:A:25:TYR:C	1:D:125:THR:CA[7_555]	1.94	0.26
1:A:56:PRO:C	1:C:101:ALA:O[6_455]	1.94	0.26
1:A:81:VAL:CG1	1:C:135:CYS:N[8_565]	1.94	0.26
1:A:86:TYR:CB	1:C:135:CYS:SG[8_565]	1.94	0.26
1:A:88:VAL:CG2	1:C:46:ASP:OD2[8_565]	1.94	0.26
1:A:90:THR:CA	1:C:124:PRO:C[8_565]	1.94	0.26
1:A:104:VAL:N	1:C:127:PRO:CD[8_565]	1.94	0.26
1:A:107:PHE:O	1:C:45:LEU:O[8_565]	1.94	0.26
1:A:114:THR:N	1:C:133:PHE:CZ[8_565]	1.94	0.26
1:A:114:THR:O	1:C:132:LEU:CG[8_565]	1.94	0.26
1:A:126:ASP:CG	1:D:44:ARG:O[7_555]	1.94	0.26
1:A:126:ASP:OD1	1:D:44:ARG:C[7_555]	1.94	0.26
1:A:137:GLU:CD	1:D:219:GLN:C[7_555]	1.94	0.26
1:A:148:LEU:O	1:C:218:GLU:OE1[8_565]	1.94	0.26
1:A:157:LYS:CA	1:C:246:VAL:CG2[8_565]	1.94	0.26
1:A:159:GLN:N	1:C:263:PHE:C[8_565]	1.94	0.26
1:A:195:LEU:CD2	1:C:217:LYS:CA[8_565]	1.94	0.26
1:A:206:MET:CA	1:C:224:PHE:N[8_565]	1.94	0.26
1:A:206:MET:CB	1:C:224:PHE:N[8_565]	1.94	0.26
1:A:217:LYS:N	1:D:142:ILE:CA[7_555]	1.94	0.26
1:B:4:LYS:C	1:C:110:ASN:ND2[7_555]	1.94	0.26
1:B:31:ALA:C	1:D:114:THR:OG1[8_565]	1.94	0.26
1:B:39:GLY:N	1:C:40:ARG:CZ[6_455]	1.94	0.26
1:B:45:LEU:CD2	1:D:108:ALA:C[8_565]	1.94	0.26
1:B:46:ASP:C	1:D:106:GLN:C[8_565]	1.94	0.26
1:B:60:ASN:CB	1:C:20:GLN:O[6_455]	1.94	0.26
1:B:67:TRP:CD1	1:C:107:PHE:CD1[7_555]	1.94	0.26
1:B:73:ASP:O	1:C:205:GLY:N[7_555]	1.94	0.26
1:B:76:ALA:N	1:C:205:GLY:O[7_555]	1.94	0.26
1:B:88:VAL:CA	1:C:65:ILE:N[7_555]	1.94	0.26
1:B:123:PHE:O	1:D:19:GLU:C[6_455]	1.94	0.26
1:B:126:ASP:C	1:D:105:ARG:C[8_565]	1.94	0.26
1:B:126:ASP:CB	1:D:106:GLN:N[8_565]	1.94	0.26
1:B:129:LEU:CB	1:D:106:GLN:CG[8_565]	1.94	0.26
1:B:131:SER:OG	1:D:67:TRP:N[8_565]	1.94	0.26
1:B:142:ILE:CG1	1:D:83:LYS:CB[8_565]	1.94	0.26
1:B:157:LYS:CD	1:C:186:CYS:O[7_555]	1.94	0.26
1:B:161:PHE:C	1:C:162:PHE:N[7_555]	1.94	0.26
1:B:224:PHE:CE1	1:D:202:LEU:O[8_565]	1.94	0.26

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:226:ALA:N	1:D:206:MET:CG[8_565]	1.94	0.26
1:B:255:ALA:CA	1:C:254:PRO:CA[6_455]	1.94	0.26
1:B:263:PHE:CG	1:D:195:LEU:CD2[8_565]	1.94	0.26
1:C:172:ASP:C	1:C:278:PHE:CZ[7_555]	1.94	0.26
1:C:206:MET:CA	3:B:302:P6G:O16[6_555]	1.94	0.26
1:D:37:GLU:O	5:B:540:HOH:O[6_555]	1.94	0.26
1:D:82:GLU:CB	4:B:303:SO4:O1[8_655]	1.94	0.26
1:D:245:LYS:CE	1:D:279:TYR:CE1[7_645]	1.94	0.26
1:A:14:ARG:NH1	1:C:118:TYR:C[6_455]	1.95	0.25
1:A:19:GLU:O	1:C:123:PHE:CA[6_455]	1.95	0.25
1:A:25:TYR:O	1:D:125:THR:N[7_555]	1.95	0.25
1:A:32:VAL:CB	1:D:44:ARG:CZ[7_555]	1.95	0.25
1:A:32:VAL:CG1	1:D:44:ARG:CZ[7_555]	1.95	0.25
1:A:44:ARG:CA	1:D:126:ASP:OD1[7_555]	1.95	0.25
1:A:65:ILE:CB	1:C:132:LEU:CG[8_565]	1.95	0.25
1:A:81:VAL:CB	1:C:138:GLU:OE1[8_565]	1.95	0.25
1:A:104:VAL:CA	1:C:127:PRO:CG[8_565]	1.95	0.25
1:A:105:ARG:CB	1:C:126:ASP:N[8_565]	1.95	0.25
1:A:111:ASP:OD2	1:C:262:GLY:CA[8_565]	1.95	0.25
1:A:113:PHE:O	1:C:133:PHE:CD2[8_565]	1.95	0.25
1:A:114:THR:O	1:C:132:LEU:CB[8_565]	1.95	0.25
1:A:116:GLU:N	1:C:128:VAL:C[8_565]	1.95	0.25
1:A:126:ASP:N	1:D:31:ALA:C[7_555]	1.95	0.25
1:A:126:ASP:O	1:D:31:ALA:CB[7_555]	1.95	0.25
1:A:126:ASP:OD2	1:D:32:VAL:CB[7_555]	1.95	0.25
1:A:133:PHE:CE1	1:D:130:GLU:CG[7_555]	1.95	0.25
1:A:138:GLU:CA	1:D:214:ALA:CB[7_555]	1.95	0.25
1:A:139:ALA:CA	1:D:262:GLY:C[7_555]	1.95	0.25
1:A:151:ILE:CA	1:C:221:ASP:N[8_565]	1.95	0.25
1:A:160:SER:CB	1:C:266:GLN:N[8_565]	1.95	0.25
1:A:162:PHE:CE1	1:C:215:LYS:CA[8_565]	1.95	0.25
1:A:195:LEU:CD2	1:C:217:LYS:N[8_565]	1.95	0.25
1:A:203:LYS:N	1:C:224:PHE:CE2[8_565]	1.95	0.25
1:B:12:GLU:OE2	1:C:90:THR:O[7_555]	1.95	0.25
1:B:20:GLN:C	1:C:61:ARG:N[6_455]	1.95	0.25
1:B:24:VAL:N	1:C:59:ALA:C[6_455]	1.95	0.25
1:B:26:GLN:CA	1:C:58:PRO:CG[6_455]	1.95	0.25
1:B:35:ARG:CZ	1:C:55:ASP:OD2[6_455]	1.95	0.25
1:B:35:ARG:NH2	1:C:55:ASP:OD2[6_455]	1.95	0.25
1:B:46:ASP:OD2	1:D:88:VAL:CG2[8_565]	1.95	0.25
1:B:51:ARG:NH2	1:D:82:GLU:CD[8_565]	1.95	0.25
1:B:60:ASN:O	1:C:20:GLN:O[6_455]	1.95	0.25

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:72:SER:O	1:C:204:PRO:C[7_555]	1.95	0.25
1:B:75:ALA:N	1:C:205:GLY:C[7_555]	1.95	0.25
1:B:78:ALA:N	1:C:113:PHE:CG[7_555]	1.95	0.25
1:B:86:TYR:N	1:C:6:LEU:CG[7_555]	1.95	0.25
1:B:89:VAL:O	1:C:63:ALA:CA[7_555]	1.95	0.25
1:B:101:ALA:O	1:D:13:CYS:O[6_455]	1.95	0.25
1:B:107:PHE:CE2	1:C:115:HIS:NE2[7_555]	1.95	0.25
1:B:110:ASN:OD1	1:C:68:ASN:C[7_555]	1.95	0.25
1:B:115:HIS:CA	1:C:107:PHE:CD2[7_555]	1.95	0.25
1:B:120:GLU:CD	1:D:16:ASP:CA[6_455]	1.95	0.25
1:B:123:PHE:CD1	1:D:19:GLU:CB[6_455]	1.95	0.25
1:B:123:PHE:CZ	1:D:88:VAL:O[8_565]	1.95	0.25
1:B:124:PRO:O	1:D:90:THR:CB[8_565]	1.95	0.25
1:B:131:SER:CB	1:D:67:TRP:CD1[8_565]	1.95	0.25
1:B:134:VAL:C	1:D:161:PHE:CZ[8_565]	1.95	0.25
1:B:142:ILE:N	1:D:83:LYS:CB[8_565]	1.95	0.25
1:B:142:ILE:CG1	1:D:83:LYS:CG[8_565]	1.95	0.25
1:B:158:THR:CA	1:C:166:LEU:O[7_555]	1.95	0.25
1:B:160:SER:N	1:C:163:THR:O[7_555]	1.95	0.25
1:B:162:PHE:C	1:C:161:PHE:CA[7_555]	1.95	0.25
1:B:186:CYS:O	1:C:157:LYS:NZ[7_555]	1.95	0.25
1:B:220:VAL:CB	1:D:152:VAL:CG1[8_565]	1.95	0.25
1:B:246:VAL:N	1:D:156:ALA:N[8_565]	1.95	0.25
1:B:248:SER:CA	1:D:154:ASP:N[8_565]	1.95	0.25
1:D:133:PHE:CB	5:A:561:HOH:O[7_555]	1.95	0.25
1:D:240:GLN:NE2	1:D:278:PHE:O[7_645]	1.95	0.25
1:A:15:ALA:N	1:C:120:GLU:OE2[6_455]	1.96	0.24
1:A:26:GLN:CG	1:D:124:PRO:CA[7_555]	1.96	0.24
1:A:31:ALA:N	1:D:126:ASP:N[7_555]	1.96	0.24
1:A:37:GLU:CD	1:C:37:GLU:OE2[6_455]	1.96	0.24
1:A:43:VAL:CG1	1:D:127:PRO:CG[7_555]	1.96	0.24
1:A:45:LEU:CD2	1:D:127:PRO:O[7_555]	1.96	0.24
1:A:47:GLY:N	1:D:30:GLY:O[7_555]	1.96	0.24
1:A:56:PRO:C	1:C:96:ALA:O[6_455]	1.96	0.24
1:A:56:PRO:CB	1:C:100:ALA:N[6_455]	1.96	0.24
1:A:58:PRO:O	1:C:103:GLN:CB[6_455]	1.96	0.24
1:A:58:PRO:CG	1:C:104:VAL:N[6_455]	1.96	0.24
1:A:83:LYS:CB	1:C:142:ILE:CG2[8_565]	1.96	0.24
1:A:88:VAL:N	1:C:46:ASP:OD1[8_565]	1.96	0.24
1:A:130:GLU:OE2	1:D:31:ALA:CA[7_555]	1.96	0.24
1:A:132:LEU:C	1:D:135:CYS:N[7_555]	1.96	0.24
1:A:138:GLU:CG	1:D:214:ALA:CB[7_555]	1.96	0.24

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:151:ILE:O	1:C:220:VAL:CB[8_565]	1.96	0.24
1:B:11:PHE:CG	1:C:16:ASP:C[6_455]	1.96	0.24
1:B:22:VAL:CB	1:C:12:GLU:CA[6_455]	1.96	0.24
1:B:45:LEU:CG	1:D:108:ALA:O[8_565]	1.96	0.24
1:B:46:ASP:OD1	1:D:88:VAL:CA[8_565]	1.96	0.24
1:B:61:ARG:N	1:C:20:GLN:C[6_455]	1.96	0.24
1:B:80:GLN:CD	1:C:150:VAL:N[7_555]	1.96	0.24
1:B:83:LYS:N	1:C:148:LEU:N[7_555]	1.96	0.24
1:B:107:PHE:CD2	1:C:115:HIS:CA[7_555]	1.96	0.24
1:B:107:PHE:CZ	1:C:115:HIS:CD2[7_555]	1.96	0.24
1:B:108:ALA:N	1:C:116:GLU:N[7_555]	1.96	0.24
1:B:117:LEU:CD2	1:C:109:ASP:CB[7_555]	1.96	0.24
1:B:120:GLU:CA	1:D:14:ARG:CB[6_455]	1.96	0.24
1:B:130:GLU:N	1:D:115:HIS:O[8_565]	1.96	0.24
1:B:130:GLU:OE1	1:D:105:ARG:CB[8_565]	1.96	0.24
1:B:133:PHE:CD1	1:D:109:ASP:N[8_565]	1.96	0.24
1:B:135:CYS:SG	1:D:86:TYR:CA[8_565]	1.96	0.24
1:B:138:GLU:CA	1:D:80:GLN:CB[8_565]	1.96	0.24
1:B:138:GLU:OE2	1:D:81:VAL:CG2[8_565]	1.96	0.24
1:B:207:VAL:C	1:C:79:GLU:OE1[7_555]	1.96	0.24
1:B:217:LYS:N	1:D:195:LEU:CD2[8_565]	1.96	0.24
1:B:218:GLU:O	1:D:150:VAL:CA[8_565]	1.96	0.24
1:B:222:ARG:NH1	1:D:148:LEU:CD2[8_565]	1.96	0.24
1:B:223:ALA:CA	1:D:206:MET:CA[8_565]	1.96	0.24
1:B:224:PHE:N	1:D:206:MET:CB[8_565]	1.96	0.24
1:B:263:PHE:CZ	1:D:195:LEU:CD1[8_565]	1.96	0.24
1:C:30:GLY:CA	5:A:563:HOH:O[8_655]	1.96	0.24
1:C:38:GLY:CA	5:B:540:HOH:O[6_555]	1.96	0.24
1:D:113:PHE:CD1	5:B:536:HOH:O[8_655]	1.96	0.24
1:A:32:VAL:O	1:D:126:ASP:OD1[7_555]	1.97	0.23
1:A:45:LEU:CA	1:D:129:LEU:O[7_555]	1.97	0.23
1:A:46:ASP:OD2	1:D:132:LEU:CD1[7_555]	1.97	0.23
1:A:78:ALA:O	1:C:137:GLU:N[8_565]	1.97	0.23
1:A:83:LYS:C	1:C:142:ILE:O[8_565]	1.97	0.23
1:A:89:VAL:C	1:C:47:GLY:O[8_565]	1.97	0.23
1:A:109:ASP:O	1:C:212:LEU:CD1[8_565]	1.97	0.23
1:A:109:ASP:OD2	1:C:214:ALA:N[8_565]	1.97	0.23
1:A:112:GLY:O	1:C:29:ILE:CA[8_565]	1.97	0.23
1:A:115:HIS:CB	1:C:129:LEU:O[8_565]	1.97	0.23
1:A:116:GLU:CB	1:C:128:VAL:O[8_565]	1.97	0.23
1:A:129:LEU:CA	1:D:45:LEU:CB[7_555]	1.97	0.23
1:A:140:ASN:C	1:D:263:PHE:CG[7_555]	1.97	0.23

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:150:VAL:CA	1:C:218:GLU:O[8_565]	1.97	0.23
1:A:151:ILE:CG1	1:C:221:ASP:CA[8_565]	1.97	0.23
1:A:152:VAL:O	1:C:248:SER:O[8_565]	1.97	0.23
1:A:153:ALA:N	1:C:261:LEU:O[8_565]	1.97	0.23
1:A:161:PHE:CE1	1:C:134:VAL:CA[8_565]	1.97	0.23
1:A:196:SER:N	1:C:217:LYS:CE[8_565]	1.97	0.23
1:A:196:SER:C	1:C:247:TYR:OH[8_565]	1.97	0.23
1:A:197:ALA:CB	1:C:239:GLY:CA[8_565]	1.97	0.23
1:A:214:ALA:CB	1:D:137:GLU:O[7_555]	1.97	0.23
1:A:215:LYS:CB	1:D:134:VAL:CG1[7_555]	1.97	0.23
1:A:263:PHE:O	1:D:140:ASN:CG[7_555]	1.97	0.23
1:B:6:LEU:CD2	1:C:85:CYS:C[7_555]	1.97	0.23
1:B:11:PHE:CE1	1:C:16:ASP:O[6_455]	1.97	0.23
1:B:16:ASP:C	1:C:11:PHE:CG[6_455]	1.97	0.23
1:B:18:LEU:CB	1:C:54:LEU:CG[6_455]	1.97	0.23
1:B:19:GLU:CD	1:C:10:ILE:C[6_455]	1.97	0.23
1:B:21:MET:C	1:C:60:ASN:CA[6_455]	1.97	0.23
1:B:25:TYR:C	1:C:59:ALA:N[6_455]	1.97	0.23
1:B:25:TYR:CB	1:C:58:PRO:C[6_455]	1.97	0.23
1:B:39:GLY:CA	1:C:40:ARG:CD[6_455]	1.97	0.23
1:B:58:PRO:C	1:C:25:TYR:CB[6_455]	1.97	0.23
1:B:58:PRO:CG	1:C:26:GLN:CB[6_455]	1.97	0.23
1:B:63:ALA:CA	1:C:89:VAL:O[7_555]	1.97	0.23
1:B:80:GLN:N	1:C:150:VAL:CG2[7_555]	1.97	0.23
1:B:100:ALA:CA	1:D:56:PRO:CB[6_455]	1.97	0.23
1:B:113:PHE:CD2	1:C:77:ILE:C[7_555]	1.97	0.23
1:B:113:PHE:CE2	1:C:77:ILE:CB[7_555]	1.97	0.23
1:B:125:THR:CA	1:D:105:ARG:CG[8_565]	1.97	0.23
1:B:126:ASP:CA	1:D:104:VAL:O[8_565]	1.97	0.23
1:B:128:VAL:N	1:D:116:GLU:CB[8_565]	1.97	0.23
1:B:128:VAL:C	1:D:116:GLU:N[8_565]	1.97	0.23
1:B:128:VAL:O	1:D:116:GLU:CB[8_565]	1.97	0.23
1:B:153:ALA:CB	1:C:73:ASP:OD2[7_555]	1.97	0.23
1:B:159:GLN:C	1:C:164:ASP:N[7_555]	1.97	0.23
1:B:162:PHE:CA	1:C:161:PHE:CA[7_555]	1.97	0.23
1:B:165:VAL:CG1	1:C:162:PHE:CE2[7_555]	1.97	0.23
1:B:186:CYS:O	1:C:157:LYS:CD[7_555]	1.97	0.23
1:B:192:THR:C	1:C:83:LYS:C[7_555]	1.97	0.23
1:B:225:ALA:N	1:D:206:MET:CE[8_565]	1.97	0.23
1:B:229:ARG:NH1	1:D:256:GLY:O[8_565]	1.97	0.23
1:B:238:ILE:CB	1:D:198:PRO:C[8_565]	1.97	0.23
1:B:247:TYR:N	1:D:154:ASP:C[8_565]	1.97	0.23

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:256:GLY:N	1:C:254:PRO:CG[6_455]	1.97	0.23
1:C:170:LEU:CD1	1:C:278:PHE:CE2[7_555]	1.97	0.23
1:A:26:GLN:CD	1:D:124:PRO:CB[7_555]	1.98	0.22
1:A:43:VAL:C	1:D:128:VAL:CG2[7_555]	1.98	0.22
1:A:83:LYS:C	1:C:143:PHE:CA[8_565]	1.98	0.22
1:A:87:SER:N	1:C:135:CYS:SG[8_565]	1.98	0.22
1:A:107:PHE:C	1:C:45:LEU:CB[8_565]	1.98	0.22
1:A:110:ASN:N	1:C:213:GLU:N[8_565]	1.98	0.22
1:A:117:LEU:CA	1:C:127:PRO:O[8_565]	1.98	0.22
1:A:117:LEU:O	1:C:127:PRO:CB[8_565]	1.98	0.22
1:A:140:ASN:OD1	1:D:263:PHE:CG[7_555]	1.98	0.22
1:A:203:LYS:C	1:C:224:PHE:CG[8_565]	1.98	0.22
1:A:214:ALA:O	1:D:138:GLU:CD[7_555]	1.98	0.22
1:A:215:LYS:C	1:D:143:PHE:CD2[7_555]	1.98	0.22
1:A:263:PHE:N	1:D:139:ALA:C[7_555]	1.98	0.22
1:A:263:PHE:CG	1:D:143:PHE:CE2[7_555]	1.98	0.22
1:B:6:LEU:CD1	1:C:85:CYS:C[7_555]	1.98	0.22
1:B:10:ILE:CG2	1:C:19:GLU:OE2[6_455]	1.98	0.22
1:B:18:LEU:CB	1:C:54:LEU:CA[6_455]	1.98	0.22
1:B:26:GLN:N	1:C:58:PRO:O[6_455]	1.98	0.22
1:B:29:ILE:CB	1:C:14:ARG:NH2[6_455]	1.98	0.22
1:B:45:LEU:CA	1:D:107:PHE:CA[8_565]	1.98	0.22
1:B:47:GLY:N	1:D:106:GLN:O[8_565]	1.98	0.22
1:B:58:PRO:CB	1:C:31:ALA:O[6_455]	1.98	0.22
1:B:59:ALA:C	1:C:24:VAL:N[6_455]	1.98	0.22
1:B:59:ALA:C	1:C:23:VAL:N[6_455]	1.98	0.22
1:B:59:ALA:C	1:C:21:MET:O[6_455]	1.98	0.22
1:B:60:ASN:CA	1:C:21:MET:C[6_455]	1.98	0.22
1:B:69:VAL:C	1:C:110:ASN:O[7_555]	1.98	0.22
1:B:84:ALA:CA	1:C:193:VAL:N[7_555]	1.98	0.22
1:B:84:ALA:CB	1:C:193:VAL:CB[7_555]	1.98	0.22
1:B:97:ALA:O	1:D:56:PRO:CB[6_455]	1.98	0.22
1:B:100:ALA:N	1:D:56:PRO:CB[6_455]	1.98	0.22
1:B:101:ALA:O	1:D:57:GLY:CA[6_455]	1.98	0.22
1:B:104:VAL:N	1:D:58:PRO:CG[6_455]	1.98	0.22
1:B:115:HIS:CB	1:C:107:PHE:CE2[7_555]	1.98	0.22
1:B:142:ILE:CG2	1:D:83:LYS:CB[8_565]	1.98	0.22
1:B:157:LYS:CD	1:C:186:CYS:CA[7_555]	1.98	0.22
1:B:159:GLN:CD	1:C:164:ASP:OD1[7_555]	1.98	0.22
1:B:160:SER:N	1:C:163:THR:C[7_555]	1.98	0.22
1:B:161:PHE:O	1:C:162:PHE:CD1[7_555]	1.98	0.22
1:B:165:VAL:CB	1:C:162:PHE:CZ[7_555]	1.98	0.22

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:208:HIS:CA	1:C:79:GLU:CD[7.555]	1.98	0.22
1:B:217:LYS:CA	1:D:195:LEU:CD2[8.565]	1.98	0.22
1:B:233:ASP:OD2	1:C:201:GLY:O[6.455]	1.98	0.22
1:B:246:VAL:CB	1:D:154:ASP:O[8.565]	1.98	0.22
1:B:249:PHE:CZ	1:D:204:PRO:CA[8.565]	1.98	0.22
1:B:261:LEU:O	1:D:153:ALA:N[8.565]	1.98	0.22
1:B:263:PHE:CA	1:D:158:THR:OG1[8.565]	1.98	0.22
1:C:22:VAL:O	5:B:517:HOH:O[6.555]	1.98	0.22
1:C:206:MET:CB	3:B:302:P6G:C17[6.555]	1.98	0.22
1:D:12:GLU:CG	5:B:522:HOH:O[6.555]	1.98	0.22
1:D:160:SER:C	5:B:555:HOH:O[8.655]	1.98	0.22
1:D:280:ASP:OD1	1:D:285:TRP:CA[7.645]	1.98	0.22
1:A:78:ALA:O	1:C:137:GLU:C[8.565]	1.99	0.21
1:A:79:GLU:CB	1:C:137:GLU:OE2[8.565]	1.99	0.21
1:A:81:VAL:C	1:C:136:GLY:CA[8.565]	1.99	0.21
1:A:83:LYS:CB	1:C:142:ILE:CG1[8.565]	1.99	0.21
1:A:116:GLU:CB	1:C:128:VAL:N[8.565]	1.99	0.21
1:A:125:THR:CG2	1:D:25:TYR:CB[7.555]	1.99	0.21
1:A:126:ASP:OD2	1:D:32:VAL:C[7.555]	1.99	0.21
1:A:133:PHE:CB	1:D:130:GLU:O[7.555]	1.99	0.21
1:A:155:ARG:N	1:C:247:TYR:C[8.565]	1.99	0.21
1:A:193:VAL:CA	1:C:218:GLU:OE2[8.565]	1.99	0.21
1:A:196:SER:N	1:C:217:LYS:CG[8.565]	1.99	0.21
1:A:215:LYS:CG	1:D:134:VAL:N[7.555]	1.99	0.21
1:A:218:GLU:CD	1:D:142:ILE:CG2[7.555]	1.99	0.21
1:B:5:GLN:CD	1:D:82:GLU:O[8.565]	1.99	0.21
1:B:10:ILE:CD1	1:C:89:VAL:CG1[7.555]	1.99	0.21
1:B:11:PHE:CB	1:C:19:GLU:CB[6.455]	1.99	0.21
1:B:13:CYS:CB	1:C:54:LEU:CD1[6.455]	1.99	0.21
1:B:19:GLU:CB	1:C:11:PHE:CB[6.455]	1.99	0.21
1:B:25:TYR:CE1	1:C:14:ARG:CG[6.455]	1.99	0.21
1:B:33:VAL:CG2	1:C:58:PRO:CA[6.455]	1.99	0.21
1:B:36:ASP:CG	1:C:38:GLY:CA[6.455]	1.99	0.21
1:B:41:ALA:CB	1:C:55:ASP:O[6.455]	1.99	0.21
1:B:44:ARG:NH1	1:D:106:GLN:NE2[8.565]	1.99	0.21
1:B:46:ASP:N	1:D:106:GLN:C[8.565]	1.99	0.21
1:B:46:ASP:OD2	1:D:87:SER:C[8.565]	1.99	0.21
1:B:48:ARG:N	1:D:88:VAL:C[8.565]	1.99	0.21
1:B:49:PRO:N	1:D:89:VAL:CG1[8.565]	1.99	0.21
1:B:51:ARG:NH1	1:D:87:SER:OG[8.565]	1.99	0.21
1:B:51:ARG:NH2	1:D:88:VAL:N[8.565]	1.99	0.21
1:B:54:LEU:CA	1:C:18:LEU:CB[6.455]	1.99	0.21

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:61:ARG:NH2	1:C:104:VAL:O[7_555]	1.99	0.21
1:B:84:ALA:CA	1:C:193:VAL:CG2[7_555]	1.99	0.21
1:B:85:CYS:CA	1:C:6:LEU:CD2[7_555]	1.99	0.21
1:B:88:VAL:CB	1:C:65:ILE:CG1[7_555]	1.99	0.21
1:B:103:GLN:CA	1:D:58:PRO:O[6_455]	1.99	0.21
1:B:108:ALA:O	1:C:67:TRP:CB[7_555]	1.99	0.21
1:B:117:LEU:N	1:C:108:ALA:CA[7_555]	1.99	0.21
1:B:122:SER:O	1:D:18:LEU:CA[6_455]	1.99	0.21
1:B:133:PHE:N	1:D:115:HIS:NE2[8_565]	1.99	0.21
1:B:142:ILE:C	1:D:83:LYS:CA[8_565]	1.99	0.21
1:B:160:SER:OG	1:C:168:PHE:CA[7_555]	1.99	0.21
1:B:161:PHE:CA	1:C:162:PHE:CA[7_555]	1.99	0.21
1:B:162:PHE:CD1	1:C:165:VAL:CA[7_555]	1.99	0.21
1:B:162:PHE:CE2	1:C:161:PHE:CZ[7_555]	1.99	0.21
1:B:164:ASP:O	1:C:195:LEU:CG[7_555]	1.99	0.21
1:B:204:PRO:C	1:C:72:SER:O[7_555]	1.99	0.21
1:B:213:GLU:CD	1:D:161:PHE:CB[8_565]	1.99	0.21
1:B:215:LYS:O	1:D:162:PHE:CD1[8_565]	1.99	0.21
1:B:215:LYS:O	1:D:162:PHE:CD2[8_565]	1.99	0.21
1:B:218:GLU:OE1	1:D:148:LEU:C[8_565]	1.99	0.21
1:B:220:VAL:C	1:D:151:ILE:CA[8_565]	1.99	0.21
1:B:223:ALA:C	1:D:206:MET:CA[8_565]	1.99	0.21
1:B:239:GLY:O	1:D:197:ALA:CB[8_565]	1.99	0.21
1:B:247:TYR:CD2	1:D:196:SER:O[8_565]	1.99	0.21
1:B:247:TYR:CE2	1:D:196:SER:CA[8_565]	1.99	0.21
1:B:264:GLY:C	1:D:156:ALA:O[8_565]	1.99	0.21
1:C:182:PHE:CZ	1:C:278:PHE:CB[7_555]	1.99	0.21
1:A:14:ARG:N	1:C:102:ALA:CB[6_455]	2.00	0.20
1:A:14:ARG:NE	1:C:118:TYR:O[6_455]	2.00	0.20
1:A:14:ARG:CZ	1:C:118:TYR:CA[6_455]	2.00	0.20
1:A:45:LEU:CG	1:D:128:VAL:C[7_555]	2.00	0.20
1:A:59:ALA:C	1:C:103:GLN:NE2[6_455]	2.00	0.20
1:A:65:ILE:CD1	1:C:219:GLN:OE1[8_565]	2.00	0.20
1:A:104:VAL:O	1:C:126:ASP:N[8_565]	2.00	0.20
1:A:105:ARG:C	1:C:126:ASP:C[8_565]	2.00	0.20
1:A:115:HIS:CA	1:C:132:LEU:CB[8_565]	2.00	0.20
1:A:128:VAL:CG1	1:D:51:ARG:CA[7_555]	2.00	0.20
1:A:133:PHE:C	1:D:133:PHE:CA[7_555]	2.00	0.20
1:A:143:PHE:CG	1:D:216:SER:N[7_555]	2.00	0.20
1:A:154:ASP:CG	1:C:246:VAL:CB[8_565]	2.00	0.20
1:A:155:ARG:NE	1:C:240:GLN:OE1[8_565]	2.00	0.20
1:A:156:ALA:N	1:C:246:VAL:N[8_565]	2.00	0.20

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:160:SER:N	1:C:264:GLY:O[8_565]	2.00	0.20
1:A:161:PHE:CE2	1:C:134:VAL:N[8_565]	2.00	0.20
1:A:215:LYS:CB	1:D:135:CYS:N[7_555]	2.00	0.20
1:A:218:GLU:O	1:D:137:GLU:OE2[7_555]	2.00	0.20
1:B:14:ARG:CG	1:C:25:TYR:CE2[6_455]	2.00	0.20
1:B:14:ARG:CD	1:C:25:TYR:CG[6_455]	2.00	0.20
1:B:20:GLN:O	1:C:60:ASN:CB[6_455]	2.00	0.20
1:B:29:ILE:CA	1:D:112:GLY:O[8_565]	2.00	0.20
1:B:41:ALA:O	1:C:56:PRO:CG[6_455]	2.00	0.20
1:B:45:LEU:O	1:D:107:PHE:CG[8_565]	2.00	0.20
1:B:47:GLY:N	1:D:89:VAL:O[8_565]	2.00	0.20
1:B:52:ILE:CG2	1:C:16:ASP:N[6_455]	2.00	0.20
1:B:54:LEU:CD2	1:C:18:LEU:CB[6_455]	2.00	0.20
1:B:67:TRP:O	1:C:109:ASP:C[7_555]	2.00	0.20
1:B:88:VAL:CG2	1:C:65:ILE:CB[7_555]	2.00	0.20
1:B:133:PHE:CB	1:D:115:HIS:CD2[8_565]	2.00	0.20
1:B:138:GLU:OE1	1:D:81:VAL:CB[8_565]	2.00	0.20
1:B:162:PHE:N	1:C:161:PHE:O[7_555]	2.00	0.20
1:B:192:THR:C	1:C:84:ALA:N[7_555]	2.00	0.20
1:B:215:LYS:C	1:D:162:PHE:CD1[8_565]	2.00	0.20
1:B:218:GLU:C	1:D:150:VAL:N[8_565]	2.00	0.20
1:B:221:ASP:CG	1:D:151:ILE:CD1[8_565]	2.00	0.20
1:B:224:PHE:N	1:D:206:MET:CA[8_565]	2.00	0.20
1:B:246:VAL:CB	1:D:154:ASP:CG[8_565]	2.00	0.20
1:B:247:TYR:OH	1:D:196:SER:C[8_565]	2.00	0.20
1:B:261:LEU:CG	1:D:111:ASP:C[8_565]	2.00	0.20
1:C:22:VAL:CG1	5:B:517:HOH:O[6_555]	2.00	0.20
1:C:105:ARG:CG	5:B:563:HOH:O[7_555]	2.00	0.20
1:D:279:TYR:CG	1:D:284:ILE:CD1[7_645]	2.00	0.20
1:D:280:ASP:N	1:D:284:ILE:CG2[7_645]	2.00	0.20
1:D:280:ASP:C	1:D:284:ILE:O[7_645]	2.00	0.20
1:A:14:ARG:CB	1:C:120:GLU:CA[6_455]	2.01	0.19
1:A:16:ASP:OD1	1:C:120:GLU:CG[6_455]	2.01	0.19
1:A:58:PRO:N	1:C:103:GLN:CA[6_455]	2.01	0.19
1:A:83:LYS:O	1:C:142:ILE:O[8_565]	2.01	0.19
1:A:126:ASP:N	1:D:31:ALA:N[7_555]	2.01	0.19
1:A:133:PHE:CG	1:D:130:GLU:CA[7_555]	2.01	0.19
1:A:135:CYS:N	1:D:132:LEU:O[7_555]	2.01	0.19
1:A:138:GLU:CD	1:D:214:ALA:O[7_555]	2.01	0.19
1:A:141:GLY:CA	1:D:217:LYS:CB[7_555]	2.01	0.19
1:A:142:ILE:N	1:D:216:SER:C[7_555]	2.01	0.19
1:A:263:PHE:O	1:D:140:ASN:CA[7_555]	2.01	0.19

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:10:ILE:C	1:C:19:GLU:CD[6.455]	2.01	0.19
1:B:25:TYR:CB	1:C:14:ARG:CG[6.455]	2.01	0.19
1:B:25:TYR:CB	1:C:58:PRO:O[6.455]	2.01	0.19
1:B:29:ILE:CA	1:D:112:GLY:CA[8.565]	2.01	0.19
1:B:35:ARG:NH2	1:C:55:ASP:CA[6.455]	2.01	0.19
1:B:38:GLY:CA	1:C:36:ASP:CG[6.455]	2.01	0.19
1:B:40:ARG:CA	1:C:40:ARG:CA[6.455]	2.01	0.19
1:B:44:ARG:CZ	1:D:106:GLN:NE2[8.565]	2.01	0.19
1:B:45:LEU:O	1:D:107:PHE:O[8.565]	2.01	0.19
1:B:45:LEU:CG	1:D:108:ALA:CB[8.565]	2.01	0.19
1:B:45:LEU:CG	1:D:108:ALA:CA[8.565]	2.01	0.19
1:B:46:ASP:OD1	1:D:88:VAL:N[8.565]	2.01	0.19
1:B:48:ARG:CZ	1:D:15:ALA:CB[6.455]	2.01	0.19
1:B:55:ASP:CA	1:C:35:ARG:NH1[6.455]	2.01	0.19
1:B:58:PRO:O	1:C:25:TYR:CB[6.455]	2.01	0.19
1:B:61:ARG:NH2	1:C:105:ARG:CD[7.555]	2.01	0.19
1:B:83:LYS:C	1:C:148:LEU:N[7.555]	2.01	0.19
1:B:84:ALA:O	1:C:192:THR:CB[7.555]	2.01	0.19
1:B:86:TYR:CD2	1:C:67:TRP:CZ3[7.555]	2.01	0.19
1:B:89:VAL:N	1:C:64:ALA:O[7.555]	2.01	0.19
1:B:89:VAL:N	1:C:64:ALA:CB[7.555]	2.01	0.19
1:B:89:VAL:CA	1:C:63:ALA:C[7.555]	2.01	0.19
1:B:90:THR:CG2	1:C:61:ARG:NH1[7.555]	2.01	0.19
1:B:107:PHE:C	1:C:115:HIS:C[7.555]	2.01	0.19
1:B:113:PHE:CG	1:C:78:ALA:N[7.555]	2.01	0.19
1:B:119:VAL:CG1	1:D:14:ARG:CG[6.455]	2.01	0.19
1:B:123:PHE:N	1:D:19:GLU:O[6.455]	2.01	0.19
1:B:126:ASP:N	1:D:104:VAL:O[8.565]	2.01	0.19
1:B:127:PRO:CB	1:D:117:LEU:C[8.565]	2.01	0.19
1:B:129:LEU:CB	1:D:115:HIS:O[8.565]	2.01	0.19
1:B:132:LEU:CB	1:D:114:THR:O[8.565]	2.01	0.19
1:B:134:VAL:CG1	1:D:161:PHE:CZ[8.565]	2.01	0.19
1:B:143:PHE:CA	1:D:83:LYS:C[8.565]	2.01	0.19
1:B:149:VAL:O	1:C:79:GLU:CD[7.555]	2.01	0.19
1:B:157:LYS:CE	1:C:187:ASN:N[7.555]	2.01	0.19
1:B:162:PHE:CD2	1:C:161:PHE:CG[7.555]	2.01	0.19
1:B:163:THR:OG1	1:C:160:SER:CA[7.555]	2.01	0.19
1:B:164:ASP:N	1:C:159:GLN:C[7.555]	2.01	0.19
1:B:201:GLY:O	1:C:233:ASP:OD2[6.455]	2.01	0.19
1:B:218:GLU:CB	1:D:148:LEU:O[8.565]	2.01	0.19
1:B:238:ILE:O	1:D:198:PRO:O[8.565]	2.01	0.19
1:B:239:GLY:CA	1:D:197:ALA:CB[8.565]	2.01	0.19

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:254:PRO:N	1:C:254:PRO:O[6_455]	2.01	0.19
1:B:261:LEU:C	1:D:111:ASP:OD2[8_565]	2.01	0.19
1:C:65:ILE:C	5:B:562:HOH:O[7_555]	2.01	0.19
1:C:102:ALA:O	5:A:517:HOH:O[6_555]	2.01	0.19
1:A:15:ALA:CB	1:C:48:ARG:NE[6_455]	2.02	0.18
1:A:19:GLU:CB	1:C:123:PHE:CD1[6_455]	2.02	0.18
1:A:26:GLN:N	1:D:125:THR:CG2[7_555]	2.02	0.18
1:A:46:ASP:OD2	1:D:132:LEU:CG[7_555]	2.02	0.18
1:A:79:GLU:O	1:C:137:GLU:CB[8_565]	2.02	0.18
1:A:87:SER:C	1:C:51:ARG:CZ[8_565]	2.02	0.18
1:A:89:VAL:O	1:C:47:GLY:N[8_565]	2.02	0.18
1:A:106:GLN:O	1:C:47:GLY:N[8_565]	2.02	0.18
1:A:108:ALA:N	1:C:45:LEU:CG[8_565]	2.02	0.18
1:A:112:GLY:CA	1:C:29:ILE:CA[8_565]	2.02	0.18
1:A:113:PHE:C	1:C:133:PHE:CE1[8_565]	2.02	0.18
1:A:115:HIS:CB	1:C:132:LEU:CA[8_565]	2.02	0.18
1:A:127:PRO:CG	1:D:43:VAL:CG1[7_555]	2.02	0.18
1:A:129:LEU:CA	1:D:44:ARG:C[7_555]	2.02	0.18
1:A:129:LEU:CD2	1:D:129:LEU:CG[7_555]	2.02	0.18
1:A:137:GLU:OE2	1:D:219:GLN:O[7_555]	2.02	0.18
1:A:143:PHE:CG	1:D:216:SER:CA[7_555]	2.02	0.18
1:A:148:LEU:C	1:C:218:GLU:CD[8_565]	2.02	0.18
1:A:156:ALA:CB	1:C:245:LYS:N[8_565]	2.02	0.18
1:A:165:VAL:N	1:C:140:ASN:OD1[8_565]	2.02	0.18
1:A:165:VAL:C	1:C:140:ASN:OD1[8_565]	2.02	0.18
1:A:187:ASN:CB	1:D:218:GLU:OE2[7_555]	2.02	0.18
1:A:202:LEU:O	1:C:224:PHE:CD2[8_565]	2.02	0.18
1:A:206:MET:CA	1:C:223:ALA:C[8_565]	2.02	0.18
1:A:206:MET:CE	1:C:225:ALA:C[8_565]	2.02	0.18
1:A:215:LYS:CD	1:D:134:VAL:N[7_555]	2.02	0.18
1:A:216:SER:N	1:D:143:PHE:CB[7_555]	2.02	0.18
1:A:264:GLY:N	1:D:140:ASN:OD1[7_555]	2.02	0.18
1:B:6:LEU:C	1:C:85:CYS:O[7_555]	2.02	0.18
1:B:54:LEU:C	1:C:18:LEU:CG[6_455]	2.02	0.18
1:B:57:GLY:C	1:C:33:VAL:CG1[6_455]	2.02	0.18
1:B:85:CYS:C	1:C:6:LEU:CD1[7_555]	2.02	0.18
1:B:114:THR:O	1:C:106:GLN:C[7_555]	2.02	0.18
1:B:133:PHE:CA	1:D:115:HIS:NE2[8_565]	2.02	0.18
1:B:138:GLU:N	1:D:80:GLN:CB[8_565]	2.02	0.18
1:B:146:GLY:C	1:C:85:CYS:SG[7_555]	2.02	0.18
1:B:148:LEU:CG	1:C:82:GLU:CA[7_555]	2.02	0.18
1:B:150:VAL:O	1:C:80:GLN:NE2[7_555]	2.02	0.18

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:158:THR:CG2	1:C:166:LEU:C[7_555]	2.02	0.18
1:B:161:PHE:O	1:C:162:PHE:N[7_555]	2.02	0.18
1:B:193:VAL:N	1:C:84:ALA:CA[7_555]	2.02	0.18
1:B:205:GLY:O	1:C:76:ALA:N[7_555]	2.02	0.18
1:B:217:LYS:C	1:D:150:VAL:N[8_565]	2.02	0.18
1:B:217:LYS:CG	1:D:194:ALA:C[8_565]	2.02	0.18
1:B:264:GLY:O	1:D:160:SER:N[8_565]	2.02	0.18
1:C:206:MET:C	3:B:302:P6G:C17[6_555]	2.02	0.18
1:D:193:VAL:CB	5:B:567:HOH:O[8_655]	2.02	0.18
1:D:280:ASP:CG	1:D:285:TRP:CA[7_645]	2.02	0.18
1:A:8:TYR:CE1	1:C:128:VAL:CG1[8_565]	2.03	0.17
1:A:19:GLU:O	1:C:123:PHE:N[6_455]	2.03	0.17
1:A:51:ARG:CB	1:D:128:VAL:CA[7_555]	2.03	0.17
1:A:57:GLY:O	1:C:103:GLN:N[6_455]	2.03	0.17
1:A:67:TRP:N	1:C:131:SER:OG[8_565]	2.03	0.17
1:A:80:GLN:O	1:C:141:GLY:O[8_565]	2.03	0.17
1:A:86:TYR:CG	1:C:134:VAL:O[8_565]	2.03	0.17
1:A:106:GLN:O	1:C:46:ASP:O[8_565]	2.03	0.17
1:A:130:GLU:O	1:D:133:PHE:CB[7_555]	2.03	0.17
1:A:140:ASN:CA	1:D:263:PHE:CB[7_555]	2.03	0.17
1:A:142:ILE:CB	1:D:218:GLU:OE1[7_555]	2.03	0.17
1:A:151:ILE:CG2	1:C:238:ILE:CG1[8_565]	2.03	0.17
1:A:151:ILE:CD1	1:C:221:ASP:CG[8_565]	2.03	0.17
1:A:152:VAL:CG2	1:C:247:TYR:C[8_565]	2.03	0.17
1:A:154:ASP:OD1	1:C:246:VAL:CA[8_565]	2.03	0.17
1:A:196:SER:CA	1:C:247:TYR:CE2[8_565]	2.03	0.17
1:B:18:LEU:O	1:C:13:CYS:N[6_455]	2.03	0.17
1:B:19:GLU:C	1:C:12:GLU:N[6_455]	2.03	0.17
1:B:51:ARG:CZ	1:D:87:SER:N[8_565]	2.03	0.17
1:B:52:ILE:CG2	1:C:15:ALA:N[6_455]	2.03	0.17
1:B:75:ALA:N	1:C:205:GLY:CA[7_555]	2.03	0.17
1:B:76:ALA:CA	1:C:151:ILE:O[7_555]	2.03	0.17
1:B:79:GLU:CD	1:C:149:VAL:O[7_555]	2.03	0.17
1:B:106:GLN:C	1:C:114:THR:O[7_555]	2.03	0.17
1:B:107:PHE:CE2	1:C:115:HIS:CB[7_555]	2.03	0.17
1:B:116:GLU:N	1:C:108:ALA:N[7_555]	2.03	0.17
1:B:117:LEU:CB	1:C:113:PHE:CA[7_555]	2.03	0.17
1:B:131:SER:CA	1:D:67:TRP:CG[8_565]	2.03	0.17
1:B:132:LEU:CB	1:D:115:HIS:CA[8_565]	2.03	0.17
1:B:137:GLU:CA	1:D:80:GLN:N[8_565]	2.03	0.17
1:B:138:GLU:OE1	1:D:81:VAL:CG1[8_565]	2.03	0.17
1:B:145:LEU:N	1:D:86:TYR:N[8_565]	2.03	0.17

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:149:VAL:CG1	1:C:83:LYS:CE[7_555]	2.03	0.17
1:B:161:PHE:CA	1:C:162:PHE:C[7_555]	2.03	0.17
1:B:165:VAL:C	1:C:162:PHE:CD1[7_555]	2.03	0.17
1:B:189:ARG:NE	1:D:84:ALA:O[8_565]	2.03	0.17
1:B:217:LYS:CG	1:D:194:ALA:O[8_565]	2.03	0.17
1:B:218:GLU:OE2	1:D:193:VAL:C[8_565]	2.03	0.17
1:B:223:ALA:C	1:D:205:GLY:C[8_565]	2.03	0.17
1:B:224:PHE:CD1	1:D:203:LYS:CB[8_565]	2.03	0.17
1:B:224:PHE:CE2	1:D:202:LEU:N[8_565]	2.03	0.17
1:B:240:GLN:CG	1:D:155:ARG:NH1[8_565]	2.03	0.17
1:B:247:TYR:CD1	1:D:197:ALA:N[8_565]	2.03	0.17
1:B:248:SER:O	1:D:152:VAL:O[8_565]	2.03	0.17
1:B:266:GLN:N	1:D:160:SER:CB[8_565]	2.03	0.17
1:C:206:MET:SD	3:B:302:P6G:C15[6_555]	2.03	0.17
1:D:82:GLU:OE1	4:B:303:SO4:O4[8_655]	2.03	0.17
1:D:82:GLU:OE2	5:B:506:HOH:O[8_655]	2.03	0.17
1:D:193:VAL:C	5:B:567:HOH:O[8_655]	2.03	0.17
1:D:222:ARG:NH1	4:A:303:SO4:S[7_555]	2.03	0.17
1:D:280:ASP:CA	1:D:285:TRP:CG[7_645]	2.03	0.17
1:A:21:MET:N	1:C:122:SER:OG[6_455]	2.04	0.16
1:A:26:GLN:N	1:D:125:THR:N[7_555]	2.04	0.16
1:A:44:ARG:O	1:D:126:ASP:OD1[7_555]	2.04	0.16
1:A:44:ARG:CZ	1:D:32:VAL:CG1[7_555]	2.04	0.16
1:A:45:LEU:C	1:D:129:LEU:CB[7_555]	2.04	0.16
1:A:83:LYS:CA	1:C:143:PHE:N[8_565]	2.04	0.16
1:A:86:TYR:CD1	1:C:145:LEU:C[8_565]	2.04	0.16
1:A:88:VAL:O	1:C:123:PHE:CZ[8_565]	2.04	0.16
1:A:104:VAL:CA	1:C:127:PRO:N[8_565]	2.04	0.16
1:A:105:ARG:NE	1:C:125:THR:CG2[8_565]	2.04	0.16
1:A:106:GLN:C	1:C:46:ASP:C[8_565]	2.04	0.16
1:A:113:PHE:CA	1:C:29:ILE:O[8_565]	2.04	0.16
1:A:114:THR:OG1	1:C:30:GLY:O[8_565]	2.04	0.16
1:A:125:THR:N	1:D:26:GLN:N[7_555]	2.04	0.16
1:A:125:THR:OG1	1:D:29:ILE:CB[7_555]	2.04	0.16
1:A:134:VAL:N	1:D:133:PHE:C[7_555]	2.04	0.16
1:A:143:PHE:CD2	1:D:215:LYS:C[7_555]	2.04	0.16
1:A:150:VAL:N	1:C:217:LYS:C[8_565]	2.04	0.16
1:A:150:VAL:N	1:C:218:GLU:C[8_565]	2.04	0.16
1:A:153:ALA:CB	1:C:249:PHE:O[8_565]	2.04	0.16
1:A:164:ASP:CG	1:C:267:VAL:CG2[8_565]	2.04	0.16
1:A:165:VAL:CA	1:C:140:ASN:ND2[8_565]	2.04	0.16
1:A:205:GLY:C	1:C:223:ALA:C[8_565]	2.04	0.16

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:206:MET:CA	1:C:223:ALA:CA[8_565]	2.04	0.16
1:A:213:GLU:C	1:D:138:GLU:CD[7_555]	2.04	0.16
1:A:217:LYS:N	1:D:141:GLY:O[7_555]	2.04	0.16
1:A:220:VAL:CA	1:D:137:GLU:CG[7_555]	2.04	0.16
1:B:14:ARG:CB	1:C:25:TYR:CD1[6_455]	2.04	0.16
1:B:16:ASP:O	1:C:11:PHE:CE1[6_455]	2.04	0.16
1:B:23:VAL:N	1:C:59:ALA:C[6_455]	2.04	0.16
1:B:23:VAL:C	1:C:59:ALA:C[6_455]	2.04	0.16
1:B:25:TYR:O	1:C:58:PRO:C[6_455]	2.04	0.16
1:B:35:ARG:NH1	1:C:55:ASP:CB[6_455]	2.04	0.16
1:B:55:ASP:CB	1:C:35:ARG:CD[6_455]	2.04	0.16
1:B:55:ASP:OD2	1:C:35:ARG:NH1[6_455]	2.04	0.16
1:B:64:ALA:C	1:C:106:GLN:O[7_555]	2.04	0.16
1:B:65:ILE:CA	1:C:87:SER:C[7_555]	2.04	0.16
1:B:72:SER:C	1:C:204:PRO:O[7_555]	2.04	0.16
1:B:73:ASP:OD1	1:C:204:PRO:CG[7_555]	2.04	0.16
1:B:77:ILE:C	1:C:113:PHE:CD2[7_555]	2.04	0.16
1:B:80:GLN:O	1:C:193:VAL:CG1[7_555]	2.04	0.16
1:B:106:GLN:CD	1:C:106:GLN:CD[7_555]	2.04	0.16
1:B:115:HIS:O	1:C:107:PHE:O[7_555]	2.04	0.16
1:B:115:HIS:NE2	1:C:107:PHE:CE2[7_555]	2.04	0.16
1:B:116:GLU:CA	1:C:108:ALA:N[7_555]	2.04	0.16
1:B:119:VAL:N	1:D:14:ARG:NH2[6_455]	2.04	0.16
1:B:122:SER:C	1:D:19:GLU:C[6_455]	2.04	0.16
1:B:126:ASP:CA	1:D:105:ARG:C[8_565]	2.04	0.16
1:B:127:PRO:CD	1:D:104:VAL:CB[8_565]	2.04	0.16
1:B:129:LEU:CA	1:D:116:GLU:N[8_565]	2.04	0.16
1:B:136:GLY:CA	1:D:81:VAL:O[8_565]	2.04	0.16
1:B:137:GLU:CB	1:D:79:GLU:N[8_565]	2.04	0.16
1:B:148:LEU:C	1:C:83:LYS:N[7_555]	2.04	0.16
1:B:157:LYS:CE	1:C:186:CYS:N[7_555]	2.04	0.16
1:B:157:LYS:CE	1:C:186:CYS:CB[7_555]	2.04	0.16
1:B:160:SER:CB	1:C:168:PHE:C[7_555]	2.04	0.16
1:B:162:PHE:O	1:C:161:PHE:CA[7_555]	2.04	0.16
1:B:163:THR:CB	1:C:159:GLN:C[7_555]	2.04	0.16
1:B:165:VAL:CA	1:C:162:PHE:CD1[7_555]	2.04	0.16
1:B:166:LEU:CA	1:C:158:THR:CG2[7_555]	2.04	0.16
1:B:184:LEU:CD2	1:C:164:ASP:OD2[7_555]	2.04	0.16
1:B:205:GLY:CA	1:C:75:ALA:N[7_555]	2.04	0.16
1:B:218:GLU:OE2	1:D:148:LEU:O[8_565]	2.04	0.16
1:B:220:VAL:C	1:D:151:ILE:C[8_565]	2.04	0.16
1:B:224:PHE:CD2	1:D:202:LEU:CB[8_565]	2.04	0.16

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:238:ILE:CG1	1:D:198:PRO:N[8_565]	2.04	0.16
1:B:253:ALA:O	1:C:254:PRO:O[6_455]	2.04	0.16
1:B:254:PRO:O	1:C:254:PRO:N[6_455]	2.04	0.16
1:B:265:GLY:CA	1:D:160:SER:OG[8_565]	2.04	0.16
1:C:14:ARG:NH2	1:D:112:GLY:CA[3_544]	2.04	0.16
1:C:207:VAL:N	3:B:302:P6G:C18[6_555]	2.04	0.16
1:C:207:VAL:C	3:B:302:P6G:O19[6_555]	2.04	0.16
1:D:85:CYS:CB	5:B:539:HOH:O[8_655]	2.04	0.16
1:D:86:TYR:CD1	5:B:521:HOH:O[8_655]	2.04	0.16
1:D:280:ASP:N	1:D:285:TRP:CD1[7_645]	2.04	0.16
1:A:15:ALA:O	1:C:120:GLU:OE2[6_455]	2.05	0.15
1:A:15:ALA:O	1:C:121:SER:O[6_455]	2.05	0.15
1:A:18:LEU:CA	1:C:122:SER:O[6_455]	2.05	0.15
1:A:18:LEU:C	1:C:122:SER:N[6_455]	2.05	0.15
1:A:59:ALA:C	1:C:103:GLN:CG[6_455]	2.05	0.15
1:A:86:TYR:CA	1:C:135:CYS:SG[8_565]	2.05	0.15
1:A:104:VAL:C	1:C:125:THR:O[8_565]	2.05	0.15
1:A:104:VAL:C	1:C:125:THR:C[8_565]	2.05	0.15
1:A:105:ARG:CA	1:C:130:GLU:OE2[8_565]	2.05	0.15
1:A:105:ARG:CG	1:C:130:GLU:OE2[8_565]	2.05	0.15
1:A:126:ASP:OD2	1:D:32:VAL:CA[7_555]	2.05	0.15
1:A:135:CYS:CB	1:D:132:LEU:CB[7_555]	2.05	0.15
1:A:135:CYS:CB	1:D:131:SER:O[7_555]	2.05	0.15
1:A:155:ARG:NE	1:C:240:GLN:NE2[8_565]	2.05	0.15
1:A:156:ALA:O	1:C:264:GLY:C[8_565]	2.05	0.15
1:A:206:MET:CB	1:C:221:ASP:O[8_565]	2.05	0.15
1:A:213:GLU:N	1:D:215:LYS:NZ[7_555]	2.05	0.15
1:B:18:LEU:CG	1:C:54:LEU:C[6_455]	2.05	0.15
1:B:21:MET:CE	1:C:60:ASN:ND2[6_455]	2.05	0.15
1:B:25:TYR:CD1	1:C:14:ARG:CB[6_455]	2.05	0.15
1:B:37:GLU:O	1:C:40:ARG:NH1[6_455]	2.05	0.15
1:B:46:ASP:CG	1:D:87:SER:C[8_565]	2.05	0.15
1:B:59:ALA:N	1:C:25:TYR:C[6_455]	2.05	0.15
1:B:61:ARG:CZ	1:C:90:THR:CG2[7_555]	2.05	0.15
1:B:65:ILE:CB	1:C:88:VAL:CG2[7_555]	2.05	0.15
1:B:77:ILE:CB	1:C:113:PHE:CE2[7_555]	2.05	0.15
1:B:77:ILE:CG1	1:C:111:ASP:OD1[7_555]	2.05	0.15
1:B:80:GLN:CA	1:C:150:VAL:CG2[7_555]	2.05	0.15
1:B:83:LYS:CB	1:C:149:VAL:N[7_555]	2.05	0.15
1:B:109:ASP:CG	1:C:117:LEU:CG[7_555]	2.05	0.15
1:B:111:ASP:O	1:C:74:LEU:N[7_555]	2.05	0.15
1:B:115:HIS:O	1:C:115:HIS:C[7_555]	2.05	0.15

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:120:GLU:OE2	1:D:15:ALA:N[6_455]	2.05	0.15
1:B:125:THR:CA	1:D:105:ARG:NE[8_565]	2.05	0.15
1:B:125:THR:O	1:D:104:VAL:C[8_565]	2.05	0.15
1:B:129:LEU:O	1:D:116:GLU:N[8_565]	2.05	0.15
1:B:136:GLY:O	1:D:83:LYS:N[8_565]	2.05	0.15
1:B:154:ASP:CB	1:C:2:SER:OG[7_555]	2.05	0.15
1:B:163:THR:C	1:C:160:SER:N[7_555]	2.05	0.15
1:B:165:VAL:CB	1:C:162:PHE:CG[7_555]	2.05	0.15
1:B:166:LEU:N	1:C:162:PHE:CE1[7_555]	2.05	0.15
1:B:212:LEU:CA	1:D:110:ASN:CG[8_565]	2.05	0.15
1:B:215:LYS:CE	1:D:166:LEU:CD2[8_565]	2.05	0.15
1:B:216:SER:N	1:D:162:PHE:CZ[8_565]	2.05	0.15
1:B:217:LYS:O	1:D:150:VAL:CB[8_565]	2.05	0.15
1:B:219:GLN:O	1:D:113:PHE:CE2[8_565]	2.05	0.15
1:B:267:VAL:CB	1:D:164:ASP:OD2[8_565]	2.05	0.15
1:C:207:VAL:CA	3:B:302:P6G:O19[6_555]	2.05	0.15
1:D:82:GLU:CD	4:B:303:SO4:S[8_655]	2.05	0.15
1:D:107:PHE:CD1	5:B:561:HOH:O[8_655]	2.05	0.15
1:A:32:VAL:CB	1:D:126:ASP:OD2[7_555]	2.06	0.14
1:A:58:PRO:N	1:C:103:GLN:C[6_455]	2.06	0.14
1:A:78:ALA:CA	1:C:137:GLU:O[8_565]	2.06	0.14
1:A:82:GLU:CA	1:C:137:GLU:N[8_565]	2.06	0.14
1:A:84:ALA:CB	1:C:143:PHE:CD1[8_565]	2.06	0.14
1:A:104:VAL:O	1:C:126:ASP:CA[8_565]	2.06	0.14
1:A:105:ARG:C	1:C:126:ASP:CA[8_565]	2.06	0.14
1:A:107:PHE:CA	1:C:45:LEU:CA[8_565]	2.06	0.14
1:A:117:LEU:CG	1:C:130:GLU:CB[8_565]	2.06	0.14
1:A:125:THR:N	1:D:25:TYR:O[7_555]	2.06	0.14
1:A:133:PHE:CA	1:D:133:PHE:C[7_555]	2.06	0.14
1:A:134:VAL:CA	1:D:215:LYS:CD[7_555]	2.06	0.14
1:A:137:GLU:OE2	1:D:222:ARG:CA[7_555]	2.06	0.14
1:A:150:VAL:CA	1:C:218:GLU:CA[8_565]	2.06	0.14
1:A:151:ILE:C	1:C:220:VAL:C[8_565]	2.06	0.14
1:A:153:ALA:N	1:C:248:SER:CB[8_565]	2.06	0.14
1:A:159:GLN:CA	1:C:264:GLY:C[8_565]	2.06	0.14
1:A:161:PHE:CZ	1:C:134:VAL:CG1[8_565]	2.06	0.14
1:A:197:ALA:N	1:C:247:TYR:CZ[8_565]	2.06	0.14
1:A:206:MET:O	1:C:221:ASP:CA[8_565]	2.06	0.14
1:B:12:GLU:N	1:C:19:GLU:C[6_455]	2.06	0.14
1:B:16:ASP:O	1:C:11:PHE:CD2[6_455]	2.06	0.14
1:B:25:TYR:CG	1:C:14:ARG:CD[6_455]	2.06	0.14
1:B:25:TYR:CE2	1:C:14:ARG:C[6_455]	2.06	0.14

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:54:LEU:C	1:C:18:LEU:CD1[6_455]	2.06	0.14
1:B:54:LEU:CG	1:C:18:LEU:CB[6_455]	2.06	0.14
1:B:57:GLY:CA	1:C:33:VAL:CB[6_455]	2.06	0.14
1:B:59:ALA:C	1:C:23:VAL:C[6_455]	2.06	0.14
1:B:62:LEU:CD1	1:C:88:VAL:O[7_555]	2.06	0.14
1:B:63:ALA:C	1:C:89:VAL:CA[7_555]	2.06	0.14
1:B:65:ILE:O	1:C:107:PHE:C[7_555]	2.06	0.14
1:B:67:TRP:CA	1:C:86:TYR:CD1[7_555]	2.06	0.14
1:B:87:SER:C	1:C:65:ILE:CA[7_555]	2.06	0.14
1:B:106:GLN:CG	1:C:106:GLN:CG[7_555]	2.06	0.14
1:B:107:PHE:CD2	1:C:115:HIS:ND1[7_555]	2.06	0.14
1:B:107:PHE:CE1	1:C:67:TRP:CD1[7_555]	2.06	0.14
1:B:109:ASP:OD2	1:C:117:LEU:CD1[7_555]	2.06	0.14
1:B:111:ASP:OD1	1:C:77:ILE:CD1[7_555]	2.06	0.14
1:B:115:HIS:C	1:C:107:PHE:C[7_555]	2.06	0.14
1:B:115:HIS:C	1:C:115:HIS:O[7_555]	2.06	0.14
1:B:121:SER:OG	1:D:13:CYS:C[6_455]	2.06	0.14
1:B:125:THR:C	1:D:104:VAL:C[8_565]	2.06	0.14
1:B:126:ASP:N	1:D:105:ARG:CB[8_565]	2.06	0.14
1:B:133:PHE:C	1:D:107:PHE:CZ[8_565]	2.06	0.14
1:B:133:PHE:CZ	1:D:113:PHE:CA[8_565]	2.06	0.14
1:B:137:GLU:N	1:D:78:ALA:O[8_565]	2.06	0.14
1:B:156:ALA:O	1:C:168:PHE:O[7_555]	2.06	0.14
1:B:162:PHE:CD2	1:C:165:VAL:CG2[7_555]	2.06	0.14
1:B:166:LEU:O	1:C:158:THR:CA[7_555]	2.06	0.14
1:B:213:GLU:O	1:D:109:ASP:CB[8_565]	2.06	0.14
1:B:217:LYS:O	1:D:150:VAL:N[8_565]	2.06	0.14
1:B:218:GLU:CA	1:D:150:VAL:CA[8_565]	2.06	0.14
1:B:219:GLN:NE2	1:D:65:ILE:CD1[8_565]	2.06	0.14
1:B:249:PHE:N	1:D:152:VAL:C[8_565]	2.06	0.14
1:B:256:GLY:N	1:C:254:PRO:CD[6_455]	2.06	0.14
1:C:173:ARG:CZ	1:C:279:TYR:N[7_555]	2.06	0.14
1:C:180:ASP:OD2	1:C:280:ASP:N[7_555]	2.06	0.14
1:C:206:MET:CG	3:B:302:P6G:C15[6_555]	2.06	0.14
1:D:280:ASP:C	1:D:284:ILE:C[7_645]	2.06	0.14
1:A:31:ALA:C	1:D:126:ASP:N[7_555]	2.07	0.13
1:A:81:VAL:C	1:C:136:GLY:N[8_565]	2.07	0.13
1:A:90:THR:CG2	1:C:124:PRO:CG[8_565]	2.07	0.13
1:A:106:GLN:CD	1:C:129:LEU:CD2[8_565]	2.07	0.13
1:A:107:PHE:CE2	1:C:133:PHE:O[8_565]	2.07	0.13
1:A:110:ASN:CB	1:C:212:LEU:C[8_565]	2.07	0.13
1:A:111:ASP:O	1:C:261:LEU:CG[8_565]	2.07	0.13

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:127:PRO:CB	1:D:43:VAL:CG1[7_555]	2.07	0.13
1:A:128:VAL:CG1	1:D:51:ARG:CB[7_555]	2.07	0.13
1:A:132:LEU:O	1:D:135:CYS:N[7_555]	2.07	0.13
1:A:138:GLU:OE1	1:D:132:LEU:O[7_555]	2.07	0.13
1:A:139:ALA:C	1:D:263:PHE:N[7_555]	2.07	0.13
1:A:150:VAL:N	1:C:217:LYS:O[8_565]	2.07	0.13
1:A:151:ILE:CA	1:C:220:VAL:C[8_565]	2.07	0.13
1:A:152:VAL:C	1:C:249:PHE:N[8_565]	2.07	0.13
1:A:152:VAL:CB	1:C:220:VAL:CG1[8_565]	2.07	0.13
1:A:195:LEU:C	1:C:217:LYS:NZ[8_565]	2.07	0.13
1:A:198:PRO:CD	1:C:239:GLY:N[8_565]	2.07	0.13
1:A:213:GLU:O	1:D:138:GLU:OE1[7_555]	2.07	0.13
1:A:217:LYS:CD	1:D:188:GLN:NE2[7_555]	2.07	0.13
1:B:13:CYS:CA	1:C:21:MET:CB[6_455]	2.07	0.13
1:B:13:CYS:SG	1:C:18:LEU:O[6_455]	2.07	0.13
1:B:20:GLN:C	1:C:60:ASN:C[6_455]	2.07	0.13
1:B:21:MET:O	1:C:59:ALA:C[6_455]	2.07	0.13
1:B:22:VAL:N	1:C:13:CYS:N[6_455]	2.07	0.13
1:B:26:GLN:O	1:D:61:ARG:NH2[8_565]	2.07	0.13
1:B:58:PRO:C	1:C:25:TYR:O[6_455]	2.07	0.13
1:B:64:ALA:CB	1:C:106:GLN:O[7_555]	2.07	0.13
1:B:73:ASP:OD2	1:C:153:ALA:CB[7_555]	2.07	0.13
1:B:101:ALA:C	1:D:57:GLY:N[6_455]	2.07	0.13
1:B:102:ALA:N	1:D:57:GLY:O[6_455]	2.07	0.13
1:B:103:GLN:N	1:D:57:GLY:O[6_455]	2.07	0.13
1:B:105:ARG:N	1:C:114:THR:OG1[7_555]	2.07	0.13
1:B:120:GLU:OE2	1:D:15:ALA:O[6_455]	2.07	0.13
1:B:126:ASP:OD1	1:D:104:VAL:CG1[8_565]	2.07	0.13
1:B:135:CYS:CA	1:D:81:VAL:CG1[8_565]	2.07	0.13
1:B:136:GLY:O	1:D:80:GLN:O[8_565]	2.07	0.13
1:B:137:GLU:CA	1:D:78:ALA:O[8_565]	2.07	0.13
1:B:141:GLY:O	1:D:80:GLN:C[8_565]	2.07	0.13
1:B:150:VAL:O	1:C:80:GLN:CG[7_555]	2.07	0.13
1:B:150:VAL:CG2	1:C:80:GLN:N[7_555]	2.07	0.13
1:B:151:ILE:O	1:C:76:ALA:CA[7_555]	2.07	0.13
1:B:158:THR:O	1:C:166:LEU:N[7_555]	2.07	0.13
1:B:158:THR:CG2	1:C:166:LEU:N[7_555]	2.07	0.13
1:B:163:THR:N	1:C:160:SER:C[7_555]	2.07	0.13
1:B:166:LEU:N	1:C:158:THR:CG2[7_555]	2.07	0.13
1:B:168:PHE:O	1:C:160:SER:N[7_555]	2.07	0.13
1:B:193:VAL:CG2	1:C:84:ALA:CA[7_555]	2.07	0.13
1:B:222:ARG:CA	1:D:206:MET:O[8_565]	2.07	0.13

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:224:PHE:CG	1:D:203:LYS:O[8_565]	2.07	0.13
1:B:247:TYR:CD1	1:D:196:SER:C[8_565]	2.07	0.13
1:B:248:SER:OG	1:D:154:ASP:CA[8_565]	2.07	0.13
1:B:255:ALA:CA	1:C:254:PRO:CD[6_455]	2.07	0.13
1:C:206:MET:CG	3:B:302:P6G:O16[6_555]	2.07	0.13
1:A:88:VAL:C	1:C:48:ARG:N[8_565]	2.08	0.12
1:A:107:PHE:CE1	1:C:133:PHE:CA[8_565]	2.08	0.12
1:A:108:ALA:C	1:C:45:LEU:CG[8_565]	2.08	0.12
1:A:112:GLY:CA	1:C:29:ILE:CD1[8_565]	2.08	0.12
1:A:114:THR:OG1	1:C:31:ALA:C[8_565]	2.08	0.12
1:A:116:GLU:N	1:C:129:LEU:CA[8_565]	2.08	0.12
1:A:116:GLU:CA	1:C:129:LEU:C[8_565]	2.08	0.12
1:A:118:TYR:N	1:C:127:PRO:CB[8_565]	2.08	0.12
1:A:124:PRO:CB	1:D:26:GLN:CD[7_555]	2.08	0.12
1:A:133:PHE:O	1:D:133:PHE:CB[7_555]	2.08	0.12
1:A:137:GLU:O	1:D:214:ALA:CB[7_555]	2.08	0.12
1:A:140:ASN:C	1:D:263:PHE:CB[7_555]	2.08	0.12
1:A:161:PHE:CG	1:C:134:VAL:CG1[8_565]	2.08	0.12
1:A:162:PHE:CD1	1:C:263:PHE:CD1[8_565]	2.08	0.12
1:A:162:PHE:CE2	1:C:215:LYS:CA[8_565]	2.08	0.12
1:A:196:SER:N	1:C:217:LYS:CD[8_565]	2.08	0.12
1:A:202:LEU:CB	1:C:224:PHE:CD2[8_565]	2.08	0.12
1:A:206:MET:SD	1:C:225:ALA:C[8_565]	2.08	0.12
1:A:216:SER:C	1:D:142:ILE:N[7_555]	2.08	0.12
1:A:263:PHE:CB	1:D:140:ASN:CA[7_555]	2.08	0.12
1:B:11:PHE:C	1:C:19:GLU:CB[6_455]	2.08	0.12
1:B:25:TYR:CE2	1:C:14:ARG:N[6_455]	2.08	0.12
1:B:37:GLU:CD	1:D:37:GLU:CD[6_455]	2.08	0.12
1:B:56:PRO:CG	1:C:41:ALA:O[6_455]	2.08	0.12
1:B:61:ARG:C	1:C:19:GLU:O[6_455]	2.08	0.12
1:B:69:VAL:CA	1:C:110:ASN:CA[7_555]	2.08	0.12
1:B:76:ALA:CA	1:C:206:MET:N[7_555]	2.08	0.12
1:B:83:LYS:CE	1:C:149:VAL:CA[7_555]	2.08	0.12
1:B:84:ALA:N	1:C:192:THR:C[7_555]	2.08	0.12
1:B:96:ALA:C	1:D:56:PRO:C[6_455]	2.08	0.12
1:B:106:GLN:O	1:C:65:ILE:N[7_555]	2.08	0.12
1:B:106:GLN:O	1:C:64:ALA:CB[7_555]	2.08	0.12
1:B:114:THR:CB	1:C:106:GLN:CA[7_555]	2.08	0.12
1:B:122:SER:N	1:D:18:LEU:C[6_455]	2.08	0.12
1:B:124:PRO:C	1:D:90:THR:CA[8_565]	2.08	0.12
1:B:127:PRO:C	1:D:117:LEU:N[8_565]	2.08	0.12
1:B:127:PRO:O	1:D:117:LEU:CA[8_565]	2.08	0.12

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:134:VAL:N	1:D:161:PHE:CZ[8_565]	2.08	0.12
1:B:141:GLY:N	1:D:80:GLN:CG[8_565]	2.08	0.12
1:B:143:PHE:N	1:D:83:LYS:CA[8_565]	2.08	0.12
1:B:144:GLY:CA	1:D:85:CYS:CB[8_565]	2.08	0.12
1:B:162:PHE:CE2	1:C:161:PHE:CD1[7_555]	2.08	0.12
1:B:217:LYS:CA	1:D:194:ALA:O[8_565]	2.08	0.12
1:B:238:ILE:CG1	1:D:151:ILE:CG2[8_565]	2.08	0.12
1:B:246:VAL:N	1:D:157:LYS:N[8_565]	2.08	0.12
1:B:249:PHE:CE2	1:D:204:PRO:CB[8_565]	2.08	0.12
1:B:253:ALA:CB	1:C:254:PRO:O[6_455]	2.08	0.12
1:C:207:VAL:N	3:B:302:P6G:O19[6_555]	2.08	0.12
1:D:165:VAL:C	5:B:564:HOH:O[8_655]	2.08	0.12
1:D:222:ARG:NH1	4:A:303:SO4:O4[7_555]	2.08	0.12
1:D:240:GLN:N	1:D:280:ASP:OD2[7_645]	2.08	0.12
1:A:31:ALA:CA	1:D:126:ASP:CA[7_555]	2.09	0.11
1:A:46:ASP:O	1:D:32:VAL:CG2[7_555]	2.09	0.11
1:A:62:LEU:CD2	1:C:222:ARG:CZ[8_565]	2.09	0.11
1:A:67:TRP:CG	1:C:131:SER:CB[8_565]	2.09	0.11
1:A:78:ALA:O	1:C:137:GLU:CB[8_565]	2.09	0.11
1:A:84:ALA:N	1:C:143:PHE:CB[8_565]	2.09	0.11
1:A:105:ARG:C	1:C:126:ASP:CB[8_565]	2.09	0.11
1:A:116:GLU:N	1:C:129:LEU:O[8_565]	2.09	0.11
1:A:117:LEU:N	1:C:127:PRO:C[8_565]	2.09	0.11
1:A:137:GLU:OE1	1:D:223:ALA:CA[7_555]	2.09	0.11
1:A:138:GLU:CD	1:D:215:LYS:N[7_555]	2.09	0.11
1:A:141:GLY:O	1:D:217:LYS:N[7_555]	2.09	0.11
1:A:149:VAL:N	1:C:218:GLU:CG[8_565]	2.09	0.11
1:A:150:VAL:CB	1:C:217:LYS:O[8_565]	2.09	0.11
1:A:154:ASP:O	1:C:246:VAL:C[8_565]	2.09	0.11
1:A:198:PRO:N	1:C:238:ILE:CG1[8_565]	2.09	0.11
1:A:201:GLY:O	1:C:228:LYS:CE[8_565]	2.09	0.11
1:A:203:LYS:O	1:C:224:PHE:N[8_565]	2.09	0.11
1:A:263:PHE:CG	1:D:140:ASN:CG[7_555]	2.09	0.11
1:B:13:CYS:N	1:C:22:VAL:N[6_455]	2.09	0.11
1:B:14:ARG:CD	1:C:25:TYR:CE1[6_455]	2.09	0.11
1:B:19:GLU:O	1:C:12:GLU:N[6_455]	2.09	0.11
1:B:23:VAL:CB	1:C:60:ASN:O[6_455]	2.09	0.11
1:B:29:ILE:CG2	1:D:112:GLY:N[8_565]	2.09	0.11
1:B:51:ARG:NH1	1:D:87:SER:CA[8_565]	2.09	0.11
1:B:55:ASP:CG	1:C:35:ARG:CZ[6_455]	2.09	0.11
1:B:58:PRO:CG	1:C:33:VAL:CG2[6_455]	2.09	0.11
1:B:60:ASN:CB	1:C:24:VAL:CG2[6_455]	2.09	0.11

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:60:ASN:ND2	1:C:24:VAL:CB[6_455]	2.09	0.11
1:B:68:ASN:C	1:C:110:ASN:OD1[7_555]	2.09	0.11
1:B:79:GLU:CD	1:C:208:HIS:CA[7_555]	2.09	0.11
1:B:120:GLU:CG	1:D:16:ASP:C[6_455]	2.09	0.11
1:B:124:PRO:CG	1:D:90:THR:CG2[8_565]	2.09	0.11
1:B:125:THR:C	1:D:105:ARG:CA[8_565]	2.09	0.11
1:B:129:LEU:C	1:D:116:GLU:CA[8_565]	2.09	0.11
1:B:133:PHE:CD1	1:D:109:ASP:CG[8_565]	2.09	0.11
1:B:133:PHE:CD2	1:D:113:PHE:O[8_565]	2.09	0.11
1:B:138:GLU:C	1:D:80:GLN:CG[8_565]	2.09	0.11
1:B:141:GLY:C	1:D:80:GLN:OE1[8_565]	2.09	0.11
1:B:143:PHE:CB	1:D:84:ALA:N[8_565]	2.09	0.11
1:B:145:LEU:O	1:D:86:TYR:CE1[8_565]	2.09	0.11
1:B:154:ASP:O	1:C:2:SER:CB[7_555]	2.09	0.11
1:B:157:LYS:CD	1:C:186:CYS:C[7_555]	2.09	0.11
1:B:159:GLN:CG	1:C:164:ASP:CG[7_555]	2.09	0.11
1:B:162:PHE:CD1	1:C:165:VAL:C[7_555]	2.09	0.11
1:B:162:PHE:CE2	1:C:165:VAL:CG1[7_555]	2.09	0.11
1:B:165:VAL:CB	1:C:162:PHE:CE2[7_555]	2.09	0.11
1:B:166:LEU:O	1:C:158:THR:OG1[7_555]	2.09	0.11
1:B:212:LEU:CG	1:D:109:ASP:O[8_565]	2.09	0.11
1:B:220:VAL:CB	1:D:151:ILE:O[8_565]	2.09	0.11
1:B:222:ARG:NH1	1:D:148:LEU:CG[8_565]	2.09	0.11
1:B:223:ALA:CB	1:D:206:MET:N[8_565]	2.09	0.11
1:B:247:TYR:N	1:D:155:ARG:CB[8_565]	2.09	0.11
1:B:247:TYR:N	1:D:156:ALA:N[8_565]	2.09	0.11
1:B:249:PHE:CZ	1:D:205:GLY:N[8_565]	2.09	0.11
1:B:254:PRO:C	1:C:255:ALA:CA[6_455]	2.09	0.11
1:B:254:PRO:O	1:C:255:ALA:N[6_455]	2.09	0.11
1:B:254:PRO:CD	1:C:256:GLY:N[6_455]	2.09	0.11
1:B:255:ALA:CA	1:C:254:PRO:N[6_455]	2.09	0.11
1:B:263:PHE:CG	1:D:195:LEU:CG[8_565]	2.09	0.11
1:B:264:GLY:C	1:D:159:GLN:CA[8_565]	2.09	0.11
1:C:66:GLY:C	5:B:562:HOH:O[7_555]	2.09	0.11
1:C:182:PHE:CD1	1:C:278:PHE:CG[7_555]	2.09	0.11
1:D:58:PRO:CG	5:B:552:HOH:O[6_555]	2.09	0.11
1:D:280:ASP:CG	1:D:285:TRP:O[7_645]	2.09	0.11
1:A:29:ILE:CG2	1:D:130:GLU:OE2[7_555]	2.10	0.10
1:A:44:ARG:NH1	1:D:32:VAL:CG1[7_555]	2.10	0.10
1:A:56:PRO:O	1:C:96:ALA:O[6_455]	2.10	0.10
1:A:58:PRO:O	1:C:103:GLN:CA[6_455]	2.10	0.10
1:A:81:VAL:CG2	1:C:138:GLU:CG[8_565]	2.10	0.10

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:83:LYS:CG	1:C:142:ILE:CA[8_565]	2.10	0.10
1:A:87:SER:O	1:C:46:ASP:CG[8_565]	2.10	0.10
1:A:107:PHE:CB	1:C:45:LEU:C[8_565]	2.10	0.10
1:A:127:PRO:CA	1:D:43:VAL:CG1[7_555]	2.10	0.10
1:A:130:GLU:CA	1:D:45:LEU:CD2[7_555]	2.10	0.10
1:A:133:PHE:C	1:D:134:VAL:N[7_555]	2.10	0.10
1:A:134:VAL:O	1:D:215:LYS:CB[7_555]	2.10	0.10
1:A:142:ILE:C	1:D:218:GLU:OE1[7_555]	2.10	0.10
1:A:148:LEU:CD1	1:C:222:ARG:NH1[8_565]	2.10	0.10
1:A:150:VAL:CB	1:C:219:GLN:C[8_565]	2.10	0.10
1:A:215:LYS:CB	1:D:134:VAL:CA[7_555]	2.10	0.10
1:A:215:LYS:CG	1:D:134:VAL:CG1[7_555]	2.10	0.10
1:A:216:SER:O	1:D:141:GLY:C[7_555]	2.10	0.10
1:A:217:LYS:CB	1:D:142:ILE:N[7_555]	2.10	0.10
1:A:220:VAL:O	1:D:137:GLU:OE1[7_555]	2.10	0.10
1:A:263:PHE:CD1	1:D:140:ASN:OD1[7_555]	2.10	0.10
1:B:14:ARG:CG	1:C:25:TYR:CB[6_455]	2.10	0.10
1:B:23:VAL:C	1:C:60:ASN:N[6_455]	2.10	0.10
1:B:24:VAL:C	1:C:59:ALA:CA[6_455]	2.10	0.10
1:B:37:GLU:OE2	1:D:37:GLU:CG[6_455]	2.10	0.10
1:B:56:PRO:CG	1:C:42:LEU:N[6_455]	2.10	0.10
1:B:60:ASN:N	1:C:23:VAL:C[6_455]	2.10	0.10
1:B:68:ASN:C	1:C:110:ASN:CA[7_555]	2.10	0.10
1:B:78:ALA:CA	1:C:113:PHE:CG[7_555]	2.10	0.10
1:B:83:LYS:N	1:C:148:LEU:C[7_555]	2.10	0.10
1:B:96:ALA:O	1:D:56:PRO:O[6_455]	2.10	0.10
1:B:101:ALA:O	1:D:56:PRO:C[6_455]	2.10	0.10
1:B:104:VAL:N	1:D:58:PRO:C[6_455]	2.10	0.10
1:B:109:ASP:N	1:C:117:LEU:CA[7_555]	2.10	0.10
1:B:120:GLU:OE1	1:D:16:ASP:N[6_455]	2.10	0.10
1:B:121:SER:O	1:D:15:ALA:O[6_455]	2.10	0.10
1:B:130:GLU:N	1:D:116:GLU:N[8_565]	2.10	0.10
1:B:132:LEU:CG	1:D:65:ILE:N[8_565]	2.10	0.10
1:B:134:VAL:C	1:D:86:TYR:CD2[8_565]	2.10	0.10
1:B:140:ASN:CB	1:D:164:ASP:C[8_565]	2.10	0.10
1:B:158:THR:CB	1:C:167:GLY:CA[7_555]	2.10	0.10
1:B:159:GLN:NE2	1:C:164:ASP:OD1[7_555]	2.10	0.10
1:B:161:PHE:CA	1:C:162:PHE:O[7_555]	2.10	0.10
1:B:161:PHE:CD1	1:C:168:PHE:CE2[7_555]	2.10	0.10
1:B:164:ASP:OD1	1:C:159:GLN:CD[7_555]	2.10	0.10
1:B:168:PHE:O	1:C:156:ALA:O[7_555]	2.10	0.10
1:B:212:LEU:C	1:D:110:ASN:CA[8_565]	2.10	0.10

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:212:LEU:CG	1:D:110:ASN:CA[8_565]	2.10	0.10
1:B:224:PHE:N	1:D:203:LYS:O[8_565]	2.10	0.10
1:B:224:PHE:CE2	1:D:203:LYS:N[8_565]	2.10	0.10
1:B:249:PHE:CD1	1:D:204:PRO:CA[8_565]	2.10	0.10
1:A:16:ASP:N	1:C:120:GLU:CB[6_455]	2.11	0.09
1:A:31:ALA:CB	1:D:126:ASP:O[7_555]	2.11	0.09
1:A:79:GLU:O	1:C:137:GLU:CG[8_565]	2.11	0.09
1:A:83:LYS:O	1:C:142:ILE:C[8_565]	2.11	0.09
1:A:83:LYS:O	1:C:187:ASN:ND2[8_565]	2.11	0.09
1:A:87:SER:N	1:C:51:ARG:CD[8_565]	2.11	0.09
1:A:87:SER:C	1:C:51:ARG:NH2[8_565]	2.11	0.09
1:A:87:SER:O	1:C:51:ARG:NE[8_565]	2.11	0.09
1:A:90:THR:O	1:C:124:PRO:CG[8_565]	2.11	0.09
1:A:128:VAL:CG2	1:D:51:ARG:C[7_555]	2.11	0.09
1:A:142:ILE:CG1	1:D:218:GLU:C[7_555]	2.11	0.09
1:A:142:ILE:CG1	1:D:218:GLU:CG[7_555]	2.11	0.09
1:A:154:ASP:C	1:C:246:VAL:O[8_565]	2.11	0.09
1:A:154:ASP:C	1:C:246:VAL:CG1[8_565]	2.11	0.09
1:A:154:ASP:OD1	1:C:246:VAL:N[8_565]	2.11	0.09
1:A:157:LYS:N	1:C:246:VAL:CG2[8_565]	2.11	0.09
1:A:166:LEU:CD2	1:C:215:LYS:CE[8_565]	2.11	0.09
1:A:202:LEU:C	1:C:224:PHE:CE1[8_565]	2.11	0.09
1:A:219:GLN:CG	1:D:136:GLY:CA[7_555]	2.11	0.09
1:A:263:PHE:CZ	1:D:143:PHE:CE1[7_555]	2.11	0.09
1:B:11:PHE:CD2	1:C:16:ASP:O[6_455]	2.11	0.09
1:B:12:GLU:CG	1:C:22:VAL:CG1[6_455]	2.11	0.09
1:B:15:ALA:CB	1:C:53:ARG:N[6_455]	2.11	0.09
1:B:19:GLU:OE2	1:C:10:ILE:CG2[6_455]	2.11	0.09
1:B:22:VAL:CG2	1:C:12:GLU:C[6_455]	2.11	0.09
1:B:29:ILE:CA	1:D:112:GLY:C[8_565]	2.11	0.09
1:B:47:GLY:O	1:D:90:THR:N[8_565]	2.11	0.09
1:B:60:ASN:OD1	1:C:21:MET:CB[6_455]	2.11	0.09
1:B:64:ALA:CB	1:C:89:VAL:N[7_555]	2.11	0.09
1:B:67:TRP:C	1:C:108:ALA:O[7_555]	2.11	0.09
1:B:67:TRP:CZ3	1:C:86:TYR:CG[7_555]	2.11	0.09
1:B:69:VAL:CG1	1:C:109:ASP:C[7_555]	2.11	0.09
1:B:74:LEU:N	1:C:111:ASP:O[7_555]	2.11	0.09
1:B:84:ALA:N	1:C:193:VAL:CG2[7_555]	2.11	0.09
1:B:86:TYR:CE2	1:C:67:TRP:CG[7_555]	2.11	0.09
1:B:103:GLN:C	1:D:58:PRO:N[6_455]	2.11	0.09
1:B:108:ALA:CA	1:C:116:GLU:CA[7_555]	2.11	0.09
1:B:108:ALA:O	1:C:116:GLU:O[7_555]	2.11	0.09

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:110:ASN:CA	1:C:69:VAL:CA[7.555]	2.11	0.09
1:B:115:HIS:C	1:C:107:PHE:N[7.555]	2.11	0.09
1:B:115:HIS:CB	1:C:107:PHE:CZ[7.555]	2.11	0.09
1:B:132:LEU:N	1:D:115:HIS:ND1[8.565]	2.11	0.09
1:B:132:LEU:O	1:D:115:HIS:CG[8.565]	2.11	0.09
1:B:137:GLU:N	1:D:82:GLU:CA[8.565]	2.11	0.09
1:B:137:GLU:C	1:D:77:ILE:O[8.565]	2.11	0.09
1:B:148:LEU:N	1:C:83:LYS:C[7.555]	2.11	0.09
1:B:157:LYS:NZ	1:C:186:CYS:CA[7.555]	2.11	0.09
1:B:162:PHE:CG	1:C:165:VAL:CG2[7.555]	2.11	0.09
1:B:165:VAL:CB	1:C:162:PHE:CD2[7.555]	2.11	0.09
1:B:166:LEU:C	1:C:158:THR:CG2[7.555]	2.11	0.09
1:B:205:GLY:CA	1:C:74:LEU:C[7.555]	2.11	0.09
1:B:207:VAL:C	1:C:79:GLU:OE2[7.555]	2.11	0.09
1:B:210:LEU:CD2	1:C:16:ASP:CG[6.455]	2.11	0.09
1:B:219:GLN:C	1:D:113:PHE:CE2[8.565]	2.11	0.09
1:B:220:VAL:CB	1:D:152:VAL:N[8.565]	2.11	0.09
1:B:238:ILE:C	1:D:198:PRO:CG[8.565]	2.11	0.09
1:B:241:HIS:CD2	1:D:154:ASP:OD2[8.565]	2.11	0.09
1:B:248:SER:O	1:D:153:ALA:O[8.565]	2.11	0.09
1:B:262:GLY:CA	1:D:158:THR:OG1[8.565]	2.11	0.09
1:B:263:PHE:N	1:D:158:THR:CG2[8.565]	2.11	0.09
1:B:267:VAL:CG2	1:D:164:ASP:OD2[8.565]	2.11	0.09
1:C:12:GLU:OE2	5:B:547:HOH:O[7.555]	2.11	0.09
1:C:155:ARG:NH2	1:C:278:PHE:O[7.555]	2.11	0.09
1:A:14:ARG:C	1:C:120:GLU:CA[6.455]	2.12	0.08
1:A:30:GLY:O	1:D:47:GLY:CA[7.555]	2.12	0.08
1:A:45:LEU:CD1	1:D:131:SER:CB[7.555]	2.12	0.08
1:A:46:ASP:N	1:D:129:LEU:CA[7.555]	2.12	0.08
1:A:51:ARG:CA	1:D:128:VAL:CG1[7.555]	2.12	0.08
1:A:80:GLN:CB	1:C:138:GLU:CA[8.565]	2.12	0.08
1:A:80:GLN:CG	1:C:141:GLY:N[8.565]	2.12	0.08
1:A:82:GLU:OE2	1:C:51:ARG:NH2[8.565]	2.12	0.08
1:A:84:ALA:N	1:C:143:PHE:C[8.565]	2.12	0.08
1:A:87:SER:N	1:C:51:ARG:CZ[8.565]	2.12	0.08
1:A:88:VAL:C	1:C:46:ASP:OD2[8.565]	2.12	0.08
1:A:109:ASP:O	1:C:212:LEU:CG[8.565]	2.12	0.08
1:A:111:ASP:OD2	1:C:262:GLY:C[8.565]	2.12	0.08
1:A:112:GLY:C	1:C:29:ILE:CA[8.565]	2.12	0.08
1:A:113:PHE:CA	1:C:133:PHE:CZ[8.565]	2.12	0.08
1:A:115:HIS:C	1:C:130:GLU:N[8.565]	2.12	0.08
1:A:128:VAL:CA	1:D:51:ARG:CB[7.555]	2.12	0.08

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:128:VAL:CG1	1:D:50:PHE:C[7_555]	2.12	0.08
1:A:130:GLU:CG	1:D:133:PHE:CD2[7_555]	2.12	0.08
1:A:133:PHE:CD1	1:D:130:GLU:CB[7_555]	2.12	0.08
1:A:135:CYS:CB	1:D:132:LEU:C[7_555]	2.12	0.08
1:A:136:GLY:C	1:D:216:SER:OG[7_555]	2.12	0.08
1:A:154:ASP:O	1:C:247:TYR:N[8_565]	2.12	0.08
1:A:158:THR:CA	1:C:263:PHE:CA[8_565]	2.12	0.08
1:A:203:LYS:CE	1:C:234:VAL:CG2[8_565]	2.12	0.08
1:A:216:SER:CA	1:D:143:PHE:CB[7_555]	2.12	0.08
1:A:216:SER:C	1:D:142:ILE:CA[7_555]	2.12	0.08
1:A:263:PHE:CE2	1:D:140:ASN:O[7_555]	2.12	0.08
1:A:264:GLY:N	1:D:140:ASN:CB[7_555]	2.12	0.08
1:B:5:GLN:N	1:C:110:ASN:CG[7_555]	2.12	0.08
1:B:12:GLU:N	1:C:19:GLU:O[6_455]	2.12	0.08
1:B:13:CYS:CB	1:C:21:MET:CB[6_455]	2.12	0.08
1:B:16:ASP:N	1:C:52:ILE:CG2[6_455]	2.12	0.08
1:B:39:GLY:C	1:C:40:ARG:CD[6_455]	2.12	0.08
1:B:45:LEU:CB	1:D:107:PHE:C[8_565]	2.12	0.08
1:B:60:ASN:CA	1:C:21:MET:O[6_455]	2.12	0.08
1:B:74:LEU:CD1	1:C:113:PHE:N[7_555]	2.12	0.08
1:B:79:GLU:OE1	1:C:209:HIS:N[7_555]	2.12	0.08
1:B:80:GLN:NE2	1:C:150:VAL:O[7_555]	2.12	0.08
1:B:83:LYS:C	1:C:192:THR:C[7_555]	2.12	0.08
1:B:84:ALA:C	1:C:192:THR:O[7_555]	2.12	0.08
1:B:87:SER:CA	1:C:8:TYR:C[7_555]	2.12	0.08
1:B:127:PRO:CD	1:D:104:VAL:N[8_565]	2.12	0.08
1:B:128:VAL:CG1	1:D:8:TYR:CE1[8_565]	2.12	0.08
1:B:130:GLU:N	1:D:115:HIS:C[8_565]	2.12	0.08
1:B:132:LEU:CG	1:D:65:ILE:CB[8_565]	2.12	0.08
1:B:136:GLY:N	1:D:86:TYR:O[8_565]	2.12	0.08
1:B:137:GLU:C	1:D:79:GLU:C[8_565]	2.12	0.08
1:B:140:ASN:C	1:D:80:GLN:OE1[8_565]	2.12	0.08
1:B:143:PHE:CD1	1:D:84:ALA:CB[8_565]	2.12	0.08
1:B:162:PHE:N	1:C:162:PHE:O[7_555]	2.12	0.08
1:B:162:PHE:CD1	1:C:161:PHE:O[7_555]	2.12	0.08
1:B:164:ASP:OD1	1:C:159:GLN:NE2[7_555]	2.12	0.08
1:B:204:PRO:CB	1:C:73:ASP:CA[7_555]	2.12	0.08
1:B:211:MET:C	1:D:110:ASN:OD1[8_565]	2.12	0.08
1:B:214:ALA:CA	1:D:109:ASP:OD2[8_565]	2.12	0.08
1:B:246:VAL:N	1:D:154:ASP:OD1[8_565]	2.12	0.08
1:B:246:VAL:CG1	1:D:154:ASP:CB[8_565]	2.12	0.08
1:B:254:PRO:N	1:C:255:ALA:CA[6_455]	2.12	0.08

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:257:PHE:CE2	1:C:20:GLN:NE2[6_455]	2.12	0.08
1:B:266:GLN:N	1:D:160:SER:OG[8_565]	2.12	0.08
1:C:35:ARG:CB	5:B:532:HOH:O[6_555]	2.12	0.08
1:C:61:ARG:NE	5:B:551:HOH:O[7_555]	2.12	0.08
1:D:245:LYS:NZ	1:D:279:TYR:OH[7_645]	2.12	0.08
1:D:280:ASP:O	1:D:285:TRP:CB[7_645]	2.12	0.08
1:A:17:VAL:N	1:C:120:GLU:CG[6_455]	2.13	0.07
1:A:19:GLU:C	1:C:122:SER:C[6_455]	2.13	0.07
1:A:32:VAL:CG1	1:D:44:ARG:NH1[7_555]	2.13	0.07
1:A:45:LEU:C	1:D:129:LEU:CG[7_555]	2.13	0.07
1:A:79:GLU:C	1:C:137:GLU:C[8_565]	2.13	0.07
1:A:81:VAL:CG1	1:C:135:CYS:CA[8_565]	2.13	0.07
1:A:87:SER:CB	1:C:51:ARG:NH1[8_565]	2.13	0.07
1:A:89:VAL:N	1:C:46:ASP:C[8_565]	2.13	0.07
1:A:108:ALA:O	1:C:45:LEU:CG[8_565]	2.13	0.07
1:A:109:ASP:CB	1:C:213:GLU:C[8_565]	2.13	0.07
1:A:111:ASP:C	1:C:261:LEU:CD2[8_565]	2.13	0.07
1:A:111:ASP:OD2	1:C:261:LEU:C[8_565]	2.13	0.07
1:A:115:HIS:CA	1:C:132:LEU:N[8_565]	2.13	0.07
1:A:126:ASP:CG	1:D:32:VAL:N[7_555]	2.13	0.07
1:A:129:LEU:CA	1:D:46:ASP:N[7_555]	2.13	0.07
1:A:133:PHE:CE2	1:D:46:ASP:CB[7_555]	2.13	0.07
1:A:134:VAL:CB	1:D:215:LYS:CD[7_555]	2.13	0.07
1:A:135:CYS:SG	1:D:132:LEU:N[7_555]	2.13	0.07
1:A:140:ASN:CG	1:D:263:PHE:CG[7_555]	2.13	0.07
1:A:142:ILE:CA	1:D:217:LYS:N[7_555]	2.13	0.07
1:A:143:PHE:CB	1:D:216:SER:N[7_555]	2.13	0.07
1:A:161:PHE:CD1	1:C:134:VAL:CG2[8_565]	2.13	0.07
1:A:161:PHE:CZ	1:C:134:VAL:CG2[8_565]	2.13	0.07
1:A:165:VAL:CG2	1:C:143:PHE:CE1[8_565]	2.13	0.07
1:A:193:VAL:CG1	1:C:216:SER:CA[8_565]	2.13	0.07
1:A:198:PRO:CG	1:C:237:THR:O[8_565]	2.13	0.07
1:A:202:LEU:C	1:C:224:PHE:CD1[8_565]	2.13	0.07
1:A:203:LYS:O	1:C:224:PHE:CG[8_565]	2.13	0.07
1:A:206:MET:C	1:C:221:ASP:O[8_565]	2.13	0.07
1:A:213:GLU:O	1:D:138:GLU:OE2[7_555]	2.13	0.07
1:B:12:GLU:O	1:C:21:MET:N[6_455]	2.13	0.07
1:B:14:ARG:N	1:C:25:TYR:CE2[6_455]	2.13	0.07
1:B:16:ASP:CA	1:C:11:PHE:CZ[6_455]	2.13	0.07
1:B:19:GLU:O	1:C:61:ARG:C[6_455]	2.13	0.07
1:B:22:VAL:CG1	1:C:12:GLU:OE1[6_455]	2.13	0.07
1:B:24:VAL:CA	1:C:60:ASN:N[6_455]	2.13	0.07

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:58:PRO:N	1:C:33:VAL:CB[6_455]	2.13	0.07
1:B:63:ALA:C	1:C:90:THR:N[7_555]	2.13	0.07
1:B:67:TRP:N	1:C:108:ALA:C[7_555]	2.13	0.07
1:B:83:LYS:CB	1:C:148:LEU:CA[7_555]	2.13	0.07
1:B:88:VAL:C	1:C:64:ALA:CA[7_555]	2.13	0.07
1:B:89:VAL:CB	1:C:10:ILE:CB[7_555]	2.13	0.07
1:B:103:GLN:CA	1:D:58:PRO:N[6_455]	2.13	0.07
1:B:105:ARG:CD	1:C:61:ARG:CZ[7_555]	2.13	0.07
1:B:110:ASN:CA	1:C:68:ASN:C[7_555]	2.13	0.07
1:B:113:PHE:CG	1:C:78:ALA:CA[7_555]	2.13	0.07
1:B:130:GLU:CG	1:D:105:ARG:O[8_565]	2.13	0.07
1:B:132:LEU:CD2	1:D:65:ILE:N[8_565]	2.13	0.07
1:B:134:VAL:CG1	1:D:161:PHE:CG[8_565]	2.13	0.07
1:B:137:GLU:OE1	1:D:75:ALA:O[8_565]	2.13	0.07
1:B:150:VAL:CG2	1:C:80:GLN:CA[7_555]	2.13	0.07
1:B:159:GLN:CB	1:C:163:THR:C[7_555]	2.13	0.07
1:B:162:PHE:O	1:C:162:PHE:N[7_555]	2.13	0.07
1:B:167:GLY:O	1:C:157:LYS:O[7_555]	2.13	0.07
1:B:204:PRO:CA	1:C:72:SER:O[7_555]	2.13	0.07
1:B:206:MET:O	1:C:76:ALA:CA[7_555]	2.13	0.07
1:B:212:LEU:CB	1:D:110:ASN:C[8_565]	2.13	0.07
1:B:217:LYS:C	1:D:194:ALA:O[8_565]	2.13	0.07
1:B:220:VAL:CG1	1:D:152:VAL:CB[8_565]	2.13	0.07
1:B:225:ALA:CA	1:D:206:MET:CG[8_565]	2.13	0.07
1:B:247:TYR:CG	1:D:155:ARG:CG[8_565]	2.13	0.07
1:B:255:ALA:N	1:C:254:PRO:O[6_455]	2.13	0.07
1:B:263:PHE:CA	1:D:158:THR:CA[8_565]	2.13	0.07
1:D:222:ARG:CZ	5:A:569:HOH:O[7_555]	2.13	0.07
1:A:16:ASP:OD1	1:C:120:GLU:CA[6_455]	2.14	0.06
1:A:19:GLU:N	1:C:122:SER:CA[6_455]	2.14	0.06
1:A:44:ARG:N	1:D:128:VAL:CG2[7_555]	2.14	0.06
1:A:45:LEU:O	1:D:129:LEU:C[7_555]	2.14	0.06
1:A:83:LYS:N	1:C:136:GLY:O[8_565]	2.14	0.06
1:A:85:CYS:CB	1:C:144:GLY:CA[8_565]	2.14	0.06
1:A:89:VAL:CB	1:C:48:ARG:O[8_565]	2.14	0.06
1:A:105:ARG:CA	1:C:126:ASP:C[8_565]	2.14	0.06
1:A:110:ASN:OD1	1:C:212:LEU:N[8_565]	2.14	0.06
1:A:115:HIS:CD2	1:C:133:PHE:CB[8_565]	2.14	0.06
1:A:131:SER:N	1:D:45:LEU:CG[7_555]	2.14	0.06
1:A:136:GLY:CA	1:D:219:GLN:CG[7_555]	2.14	0.06
1:A:152:VAL:CB	1:C:247:TYR:O[8_565]	2.14	0.06
1:A:156:ALA:C	1:C:245:LYS:C[8_565]	2.14	0.06

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:158:THR:O	1:C:264:GLY:CA[8_565]	2.14	0.06
1:A:160:SER:N	1:C:265:GLY:N[8_565]	2.14	0.06
1:A:164:ASP:C	1:C:140:ASN:CB[8_565]	2.14	0.06
1:A:206:MET:O	1:C:222:ARG:CA[8_565]	2.14	0.06
1:A:206:MET:CG	1:C:224:PHE:CA[8_565]	2.14	0.06
1:A:263:PHE:CG	1:D:140:ASN:C[7_555]	2.14	0.06
1:B:2:SER:CB	1:C:154:ASP:O[7_555]	2.14	0.06
1:B:12:GLU:OE1	1:C:22:VAL:CG1[6_455]	2.14	0.06
1:B:14:ARG:CZ	1:C:212:LEU:CD1[6_455]	2.14	0.06
1:B:19:GLU:CB	1:C:11:PHE:C[6_455]	2.14	0.06
1:B:21:MET:CG	1:C:60:ASN:OD1[6_455]	2.14	0.06
1:B:30:GLY:O	1:D:114:THR:OG1[8_565]	2.14	0.06
1:B:33:VAL:CG1	1:C:56:PRO:O[6_455]	2.14	0.06
1:B:45:LEU:CG	1:D:108:ALA:N[8_565]	2.14	0.06
1:B:54:LEU:O	1:C:18:LEU:CD1[6_455]	2.14	0.06
1:B:60:ASN:N	1:C:24:VAL:CA[6_455]	2.14	0.06
1:B:60:ASN:C	1:C:23:VAL:CB[6_455]	2.14	0.06
1:B:67:TRP:CG	1:C:86:TYR:CD2[7_555]	2.14	0.06
1:B:79:GLU:CB	1:C:207:VAL:CA[7_555]	2.14	0.06
1:B:83:LYS:NZ	1:C:149:VAL:CG2[7_555]	2.14	0.06
1:B:85:CYS:C	1:C:6:LEU:CD2[7_555]	2.14	0.06
1:B:86:TYR:CD1	1:C:67:TRP:CA[7_555]	2.14	0.06
1:B:87:SER:C	1:C:64:ALA:O[7_555]	2.14	0.06
1:B:102:ALA:CB	1:D:13:CYS:CA[6_455]	2.14	0.06
1:B:110:ASN:CG	1:C:4:LYS:CA[7_555]	2.14	0.06
1:B:114:THR:CB	1:C:105:ARG:CA[7_555]	2.14	0.06
1:B:119:VAL:CA	1:D:14:ARG:CZ[6_455]	2.14	0.06
1:B:119:VAL:CG1	1:D:14:ARG:CD[6_455]	2.14	0.06
1:B:126:ASP:C	1:D:105:ARG:CA[8_565]	2.14	0.06
1:B:127:PRO:C	1:D:116:GLU:O[8_565]	2.14	0.06
1:B:140:ASN:OD1	1:D:164:ASP:O[8_565]	2.14	0.06
1:B:142:ILE:C	1:D:83:LYS:O[8_565]	2.14	0.06
1:B:143:PHE:N	1:D:83:LYS:O[8_565]	2.14	0.06
1:B:160:SER:N	1:C:168:PHE:O[7_555]	2.14	0.06
1:B:160:SER:C	1:C:163:THR:N[7_555]	2.14	0.06
1:B:162:PHE:CD2	1:C:165:VAL:CB[7_555]	2.14	0.06
1:B:163:THR:O	1:C:160:SER:N[7_555]	2.14	0.06
1:B:166:LEU:N	1:C:158:THR:O[7_555]	2.14	0.06
1:B:168:PHE:O	1:C:160:SER:CA[7_555]	2.14	0.06
1:B:218:GLU:CA	1:D:149:VAL:CA[8_565]	2.14	0.06
1:B:222:ARG:O	1:D:206:MET:CB[8_565]	2.14	0.06
1:B:245:LYS:N	1:D:156:ALA:CB[8_565]	2.14	0.06

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:248:SER:OG	1:D:153:ALA:CA[8_565]	2.14	0.06
1:B:254:PRO:O	1:C:253:ALA:O[6_455]	2.14	0.06
1:B:263:PHE:O	1:D:159:GLN:N[8_565]	2.14	0.06
1:C:173:ARG:N	1:C:278:PHE:CZ[7_555]	2.14	0.06
1:C:285:TRP:NE1	5:A:544:HOH:O[8_655]	2.14	0.06
1:D:55:ASP:C	5:B:572:HOH:O[6_555]	2.14	0.06
1:D:82:GLU:CB	4:B:303:SO4:S[8_655]	2.14	0.06
1:D:166:LEU:N	5:B:564:HOH:O[8_655]	2.14	0.06
1:D:199:ALA:C	5:B:580:HOH:O[8_655]	2.14	0.06
1:D:280:ASP:N	1:D:284:ILE:CB[7_645]	2.14	0.06
1:A:25:TYR:CD1	1:D:127:PRO:CG[7_555]	2.15	0.05
1:A:62:LEU:CG	1:C:222:ARG:NH2[8_565]	2.15	0.05
1:A:65:ILE:N	1:C:132:LEU:CG[8_565]	2.15	0.05
1:A:67:TRP:CB	1:C:131:SER:CB[8_565]	2.15	0.05
1:A:80:GLN:OE1	1:C:141:GLY:C[8_565]	2.15	0.05
1:A:81:VAL:O	1:C:136:GLY:CA[8_565]	2.15	0.05
1:A:83:LYS:CE	1:C:142:ILE:CG1[8_565]	2.15	0.05
1:A:84:ALA:O	1:C:189:ARG:NE[8_565]	2.15	0.05
1:A:107:PHE:CG	1:C:45:LEU:O[8_565]	2.15	0.05
1:A:124:PRO:O	1:D:26:GLN:O[7_555]	2.15	0.05
1:A:127:PRO:CG	1:D:25:TYR:CG[7_555]	2.15	0.05
1:A:128:VAL:O	1:D:51:ARG:CG[7_555]	2.15	0.05
1:A:132:LEU:CD2	1:D:135:CYS:SG[7_555]	2.15	0.05
1:A:138:GLU:OE2	1:D:213:GLU:O[7_555]	2.15	0.05
1:A:141:GLY:O	1:D:217:LYS:CA[7_555]	2.15	0.05
1:A:142:ILE:N	1:D:217:LYS:CB[7_555]	2.15	0.05
1:A:153:ALA:O	1:C:248:SER:O[8_565]	2.15	0.05
1:A:154:ASP:O	1:C:246:VAL:CA[8_565]	2.15	0.05
1:A:159:GLN:C	1:C:264:GLY:C[8_565]	2.15	0.05
1:A:161:PHE:CZ	1:C:134:VAL:C[8_565]	2.15	0.05
1:A:195:LEU:CB	1:C:263:PHE:CD2[8_565]	2.15	0.05
1:A:197:ALA:N	1:C:238:ILE:CG2[8_565]	2.15	0.05
1:A:198:PRO:O	1:C:238:ILE:O[8_565]	2.15	0.05
1:A:203:LYS:N	1:C:224:PHE:CB[8_565]	2.15	0.05
1:A:206:MET:O	1:C:221:ASP:N[8_565]	2.15	0.05
1:A:206:MET:CG	1:C:225:ALA:CA[8_565]	2.15	0.05
1:A:206:MET:CG	1:C:224:PHE:O[8_565]	2.15	0.05
1:A:216:SER:CA	1:D:142:ILE:C[7_555]	2.15	0.05
1:A:216:SER:C	1:D:143:PHE:CD2[7_555]	2.15	0.05
1:A:217:LYS:C	1:D:141:GLY:O[7_555]	2.15	0.05
1:B:4:LYS:CA	1:C:110:ASN:ND2[7_555]	2.15	0.05
1:B:12:GLU:O	1:C:18:LEU:O[6_455]	2.15	0.05

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:14:ARG:NE	1:C:25:TYR:CE1[6_455]	2.15	0.05
1:B:21:MET:SD	1:C:60:ASN:ND2[6_455]	2.15	0.05
1:B:25:TYR:N	1:C:58:PRO:O[6_455]	2.15	0.05
1:B:25:TYR:C	1:C:58:PRO:CA[6_455]	2.15	0.05
1:B:26:GLN:N	1:C:59:ALA:CA[6_455]	2.15	0.05
1:B:33:VAL:CG1	1:C:56:PRO:C[6_455]	2.15	0.05
1:B:36:ASP:OD1	1:C:40:ARG:CD[6_455]	2.15	0.05
1:B:51:ARG:NH2	1:D:82:GLU:OE2[8_565]	2.15	0.05
1:B:58:PRO:O	1:C:25:TYR:N[6_455]	2.15	0.05
1:B:60:ASN:OD1	1:C:21:MET:O[6_455]	2.15	0.05
1:B:90:THR:N	1:C:63:ALA:C[7_555]	2.15	0.05
1:B:90:THR:CB	1:C:63:ALA:CB[7_555]	2.15	0.05
1:B:96:ALA:CB	1:D:58:PRO:CD[6_455]	2.15	0.05
1:B:115:HIS:CA	1:C:107:PHE:CG[7_555]	2.15	0.05
1:B:136:GLY:C	1:D:81:VAL:O[8_565]	2.15	0.05
1:B:137:GLU:C	1:D:78:ALA:O[8_565]	2.15	0.05
1:B:157:LYS:C	1:C:168:PHE:CA[7_555]	2.15	0.05
1:B:161:PHE:C	1:C:162:PHE:CG[7_555]	2.15	0.05
1:B:163:THR:N	1:C:163:THR:N[7_555]	2.15	0.05
1:B:163:THR:N	1:C:162:PHE:N[7_555]	2.15	0.05
1:B:163:THR:C	1:C:159:GLN:CB[7_555]	2.15	0.05
1:B:167:GLY:CA	1:C:158:THR:CB[7_555]	2.15	0.05
1:B:205:GLY:O	1:C:75:ALA:O[7_555]	2.15	0.05
1:B:206:MET:N	1:C:76:ALA:CA[7_555]	2.15	0.05
1:B:213:GLU:N	1:D:110:ASN:N[8_565]	2.15	0.05
1:B:218:GLU:CA	1:D:149:VAL:O[8_565]	2.15	0.05
1:B:218:GLU:O	1:D:149:VAL:O[8_565]	2.15	0.05
1:B:219:GLN:C	1:D:150:VAL:CB[8_565]	2.15	0.05
1:B:231:GLY:O	1:C:206:MET:SD[6_455]	2.15	0.05
1:B:239:GLY:N	1:D:198:PRO:CD[8_565]	2.15	0.05
1:B:239:GLY:C	1:D:197:ALA:CB[8_565]	2.15	0.05
1:B:247:TYR:CZ	1:D:197:ALA:N[8_565]	2.15	0.05
1:B:248:SER:O	1:D:198:PRO:CD[8_565]	2.15	0.05
1:B:262:GLY:O	1:D:111:ASP:OD2[8_565]	2.15	0.05
1:C:61:ARG:CD	5:B:551:HOH:O[7_555]	2.15	0.05
1:C:182:PHE:CE1	1:C:278:PHE:O[7_555]	2.15	0.05
1:A:14:ARG:CD	1:C:119:VAL:CG2[6_455]	2.16	0.04
1:A:32:VAL:CA	1:D:44:ARG:NH2[7_555]	2.16	0.04
1:A:44:ARG:O	1:D:129:LEU:CB[7_555]	2.16	0.04
1:A:67:TRP:CG	1:C:131:SER:CA[8_565]	2.16	0.04
1:A:78:ALA:C	1:C:137:GLU:C[8_565]	2.16	0.04
1:A:81:VAL:O	1:C:136:GLY:C[8_565]	2.16	0.04

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:105:ARG:CA	1:C:125:THR:C[8_565]	2.16	0.04
1:A:105:ARG:NE	1:C:125:THR:CA[8_565]	2.16	0.04
1:A:113:PHE:O	1:C:133:PHE:CG[8_565]	2.16	0.04
1:A:113:PHE:CE2	1:C:219:GLN:C[8_565]	2.16	0.04
1:A:115:HIS:CB	1:C:132:LEU:C[8_565]	2.16	0.04
1:A:116:GLU:N	1:C:130:GLU:N[8_565]	2.16	0.04
1:A:138:GLU:OE2	1:D:214:ALA:C[7_555]	2.16	0.04
1:A:148:LEU:CD2	1:C:222:ARG:NH1[8_565]	2.16	0.04
1:A:150:VAL:CB	1:C:219:GLN:CA[8_565]	2.16	0.04
1:A:152:VAL:N	1:C:220:VAL:CB[8_565]	2.16	0.04
1:A:160:SER:C	1:C:265:GLY:O[8_565]	2.16	0.04
1:A:166:LEU:CD1	1:C:215:LYS:CG[8_565]	2.16	0.04
1:A:204:PRO:N	1:C:249:PHE:CE1[8_565]	2.16	0.04
1:A:204:PRO:CB	1:C:249:PHE:CE1[8_565]	2.16	0.04
1:A:206:MET:CB	1:C:224:PHE:C[8_565]	2.16	0.04
1:B:6:LEU:CG	1:C:85:CYS:CA[7_555]	2.16	0.04
1:B:16:ASP:N	1:C:11:PHE:CD2[6_455]	2.16	0.04
1:B:16:ASP:C	1:C:11:PHE:CE2[6_455]	2.16	0.04
1:B:18:LEU:CA	1:C:54:LEU:CD2[6_455]	2.16	0.04
1:B:18:LEU:O	1:C:13:CYS:SG[6_455]	2.16	0.04
1:B:20:GLN:N	1:C:61:ARG:O[6_455]	2.16	0.04
1:B:21:MET:CB	1:C:13:CYS:CA[6_455]	2.16	0.04
1:B:21:MET:CE	1:C:17:VAL:CG1[6_455]	2.16	0.04
1:B:29:ILE:CB	1:D:112:GLY:C[8_565]	2.16	0.04
1:B:40:ARG:CA	1:C:40:ARG:CB[6_455]	2.16	0.04
1:B:45:LEU:C	1:D:108:ALA:N[8_565]	2.16	0.04
1:B:69:VAL:CG1	1:C:109:ASP:O[7_555]	2.16	0.04
1:B:78:ALA:O	1:C:148:LEU:CD2[7_555]	2.16	0.04
1:B:100:ALA:O	1:D:15:ALA:CA[6_455]	2.16	0.04
1:B:102:ALA:N	1:D:14:ARG:CA[6_455]	2.16	0.04
1:B:103:GLN:CA	1:D:59:ALA:CA[6_455]	2.16	0.04
1:B:106:GLN:O	1:C:64:ALA:C[7_555]	2.16	0.04
1:B:106:GLN:CD	1:C:116:GLU:OE2[7_555]	2.16	0.04
1:B:107:PHE:N	1:C:114:THR:O[7_555]	2.16	0.04
1:B:114:THR:CG2	1:C:105:ARG:C[7_555]	2.16	0.04
1:B:127:PRO:CG	1:D:118:TYR:CA[8_565]	2.16	0.04
1:B:128:VAL:CB	1:D:116:GLU:CD[8_565]	2.16	0.04
1:B:129:LEU:CA	1:D:116:GLU:CA[8_565]	2.16	0.04
1:B:134:VAL:O	1:D:86:TYR:CG[8_565]	2.16	0.04
1:B:142:ILE:O	1:D:83:LYS:C[8_565]	2.16	0.04
1:B:143:PHE:C	1:D:84:ALA:N[8_565]	2.16	0.04
1:B:148:LEU:CB	1:C:82:GLU:CB[7_555]	2.16	0.04

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:158:THR:CB	1:C:166:LEU:O[7_555]	2.16	0.04
1:B:159:GLN:N	1:C:167:GLY:N[7_555]	2.16	0.04
1:B:161:PHE:CD2	1:C:166:LEU:CG[7_555]	2.16	0.04
1:B:163:THR:N	1:C:159:GLN:C[7_555]	2.16	0.04
1:B:165:VAL:CA	1:C:195:LEU:CD1[7_555]	2.16	0.04
1:B:192:THR:CB	1:C:84:ALA:O[7_555]	2.16	0.04
1:B:193:VAL:CB	1:C:84:ALA:CB[7_555]	2.16	0.04
1:B:211:MET:O	1:D:110:ASN:CB[8_565]	2.16	0.04
1:B:248:SER:CB	1:D:154:ASP:CA[8_565]	2.16	0.04
1:B:248:SER:CB	1:D:153:ALA:N[8_565]	2.16	0.04
1:B:254:PRO:CB	1:C:255:ALA:CB[6_455]	2.16	0.04
1:B:255:ALA:N	1:C:255:ALA:CA[6_455]	2.16	0.04
1:B:255:ALA:CA	1:C:255:ALA:N[6_455]	2.16	0.04
1:B:255:ALA:CB	1:C:254:PRO:CB[6_455]	2.16	0.04
1:B:264:GLY:CA	1:D:158:THR:O[8_565]	2.16	0.04
1:B:264:GLY:C	1:D:159:GLN:C[8_565]	2.16	0.04
1:C:36:ASP:N	5:B:526:HOH:O[6_555]	2.16	0.04
1:C:91:ALA:N	5:B:512:HOH:O[7_555]	2.16	0.04
1:D:280:ASP:O	1:D:284:ILE:O[7_645]	2.16	0.04
1:A:13:CYS:CA	1:C:102:ALA:CB[6_455]	2.17	0.03
1:A:13:CYS:C	1:C:102:ALA:CB[6_455]	2.17	0.03
1:A:26:GLN:CA	1:D:124:PRO:CA[7_555]	2.17	0.03
1:A:29:ILE:CG2	1:D:125:THR:OG1[7_555]	2.17	0.03
1:A:44:ARG:CZ	1:D:32:VAL:CB[7_555]	2.17	0.03
1:A:45:LEU:CG	1:D:128:VAL:O[7_555]	2.17	0.03
1:A:45:LEU:CD1	1:D:131:SER:CA[7_555]	2.17	0.03
1:A:51:ARG:C	1:D:128:VAL:CG1[7_555]	2.17	0.03
1:A:56:PRO:CG	1:C:97:ALA:C[6_455]	2.17	0.03
1:A:86:TYR:CA	1:C:144:GLY:O[8_565]	2.17	0.03
1:A:111:ASP:OD1	1:C:261:LEU:CB[8_565]	2.17	0.03
1:A:112:GLY:O	1:C:29:ILE:CG2[8_565]	2.17	0.03
1:A:115:HIS:CD2	1:C:133:PHE:CG[8_565]	2.17	0.03
1:A:124:PRO:O	1:D:31:ALA:O[7_555]	2.17	0.03
1:A:126:ASP:CA	1:D:31:ALA:CA[7_555]	2.17	0.03
1:A:126:ASP:OD1	1:D:32:VAL:O[7_555]	2.17	0.03
1:A:127:PRO:CG	1:D:25:TYR:CD1[7_555]	2.17	0.03
1:A:128:VAL:C	1:D:45:LEU:N[7_555]	2.17	0.03
1:A:134:VAL:N	1:D:215:LYS:CG[7_555]	2.17	0.03
1:A:136:GLY:C	1:D:219:GLN:CB[7_555]	2.17	0.03
1:A:152:VAL:O	1:C:248:SER:N[8_565]	2.17	0.03
1:A:156:ALA:C	1:C:246:VAL:N[8_565]	2.17	0.03
1:A:195:LEU:CG	1:C:263:PHE:CG[8_565]	2.17	0.03

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:198:PRO:C	1:C:238:ILE:CB[8_565]	2.17	0.03
1:A:198:PRO:CD	1:C:238:ILE:N[8_565]	2.17	0.03
1:A:206:MET:CB	1:C:222:ARG:O[8_565]	2.17	0.03
1:A:214:ALA:CB	1:D:138:GLU:N[7_555]	2.17	0.03
1:A:214:ALA:CB	1:D:138:GLU:CD[7_555]	2.17	0.03
1:A:247:TYR:O	1:D:140:ASN:N[7_555]	2.17	0.03
1:A:263:PHE:CA	1:D:140:ASN:CB[7_555]	2.17	0.03
1:A:263:PHE:CB	1:D:140:ASN:C[7_555]	2.17	0.03
1:B:6:LEU:CB	1:C:86:TYR:N[7_555]	2.17	0.03
1:B:21:MET:N	1:C:12:GLU:O[6_455]	2.17	0.03
1:B:21:MET:CB	1:C:13:CYS:CB[6_455]	2.17	0.03
1:B:26:GLN:C	1:D:61:ARG:NE[8_565]	2.17	0.03
1:B:29:ILE:CG1	1:D:112:GLY:CA[8_565]	2.17	0.03
1:B:39:GLY:O	1:C:55:ASP:OD1[6_455]	2.17	0.03
1:B:45:LEU:CG	1:D:108:ALA:C[8_565]	2.17	0.03
1:B:46:ASP:C	1:D:89:VAL:N[8_565]	2.17	0.03
1:B:48:ARG:O	1:D:89:VAL:CB[8_565]	2.17	0.03
1:B:54:LEU:CD1	1:C:13:CYS:CA[6_455]	2.17	0.03
1:B:59:ALA:O	1:C:22:VAL:N[6_455]	2.17	0.03
1:B:60:ASN:C	1:C:20:GLN:C[6_455]	2.17	0.03
1:B:65:ILE:O	1:C:108:ALA:N[7_555]	2.17	0.03
1:B:74:LEU:C	1:C:205:GLY:CA[7_555]	2.17	0.03
1:B:77:ILE:CB	1:C:113:PHE:CD2[7_555]	2.17	0.03
1:B:85:CYS:O	1:C:6:LEU:C[7_555]	2.17	0.03
1:B:86:TYR:CG	1:C:67:TRP:CZ3[7_555]	2.17	0.03
1:B:87:SER:N	1:C:6:LEU:CD1[7_555]	2.17	0.03
1:B:102:ALA:CB	1:D:14:ARG:N[6_455]	2.17	0.03
1:B:105:ARG:NE	1:C:61:ARG:NE[7_555]	2.17	0.03
1:B:107:PHE:N	1:C:115:HIS:C[7_555]	2.17	0.03
1:B:107:PHE:C	1:C:65:ILE:O[7_555]	2.17	0.03
1:B:107:PHE:C	1:C:116:GLU:CB[7_555]	2.17	0.03
1:B:109:ASP:CA	1:C:117:LEU:CD2[7_555]	2.17	0.03
1:B:115:HIS:CB	1:C:107:PHE:CD2[7_555]	2.17	0.03
1:B:135:CYS:SG	1:D:87:SER:N[8_565]	2.17	0.03
1:B:158:THR:N	1:C:168:PHE:N[7_555]	2.17	0.03
1:B:160:SER:CA	1:C:168:PHE:O[7_555]	2.17	0.03
1:B:184:LEU:CD2	1:C:164:ASP:CB[7_555]	2.17	0.03
1:B:205:GLY:N	1:C:73:ASP:C[7_555]	2.17	0.03
1:B:220:VAL:CG2	1:D:152:VAL:CB[8_565]	2.17	0.03
1:B:224:PHE:CA	1:D:203:LYS:C[8_565]	2.17	0.03
1:B:238:ILE:CA	1:D:197:ALA:C[8_565]	2.17	0.03
1:B:254:PRO:O	1:C:253:ALA:CB[6_455]	2.17	0.03

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:255:ALA:CA	1:C:254:PRO:C[6_455]	2.17	0.03
1:B:261:LEU:CG	1:D:111:ASP:O[8_565]	2.17	0.03
1:B:262:GLY:C	1:D:158:THR:CB[8_565]	2.17	0.03
1:B:263:PHE:CE1	1:D:162:PHE:CD1[8_565]	2.17	0.03
1:B:264:GLY:O	1:D:156:ALA:C[8_565]	2.17	0.03
1:B:265:GLY:O	1:D:160:SER:C[8_565]	2.17	0.03
1:C:24:VAL:CG2	5:B:560:HOH:O[6_555]	2.17	0.03
1:C:45:LEU:CB	5:A:562:HOH:O[8_655]	2.17	0.03
1:C:104:VAL:C	5:B:512:HOH:O[7_555]	2.17	0.03
1:C:173:ARG:NH1	1:C:279:TYR:N[7_555]	2.17	0.03
1:D:58:PRO:CD	5:B:552:HOH:O[6_555]	2.17	0.03
1:D:193:VAL:CG1	5:B:567:HOH:O[8_655]	2.17	0.03
1:D:280:ASP:CB	1:D:285:TRP:CD2[7_645]	2.17	0.03
1:A:18:LEU:O	1:C:122:SER:CA[6_455]	2.18	0.02
1:A:31:ALA:N	1:D:125:THR:CA[7_555]	2.18	0.02
1:A:31:ALA:O	1:D:124:PRO:O[7_555]	2.18	0.02
1:A:32:VAL:CA	1:D:126:ASP:OD2[7_555]	2.18	0.02
1:A:43:VAL:CG1	1:D:127:PRO:CB[7_555]	2.18	0.02
1:A:59:ALA:CB	1:C:103:GLN:NE2[6_455]	2.18	0.02
1:A:67:TRP:CD1	1:C:131:SER:CB[8_565]	2.18	0.02
1:A:77:ILE:O	1:C:138:GLU:N[8_565]	2.18	0.02
1:A:79:GLU:CD	1:C:137:GLU:OE2[8_565]	2.18	0.02
1:A:81:VAL:CA	1:C:136:GLY:O[8_565]	2.18	0.02
1:A:82:GLU:O	1:C:144:GLY:N[8_565]	2.18	0.02
1:A:107:PHE:CE1	1:C:134:VAL:N[8_565]	2.18	0.02
1:A:110:ASN:ND2	1:C:211:MET:SD[8_565]	2.18	0.02
1:A:112:GLY:N	1:C:261:LEU:CD1[8_565]	2.18	0.02
1:A:128:VAL:CG2	1:D:51:ARG:CA[7_555]	2.18	0.02
1:A:130:GLU:CA	1:D:133:PHE:CG[7_555]	2.18	0.02
1:A:135:CYS:N	1:D:215:LYS:CB[7_555]	2.18	0.02
1:A:140:ASN:N	1:D:247:TYR:O[7_555]	2.18	0.02
1:A:153:ALA:CA	1:C:248:SER:OG[8_565]	2.18	0.02
1:A:161:PHE:CB	1:C:213:GLU:CD[8_565]	2.18	0.02
1:A:162:PHE:CD1	1:C:263:PHE:CE1[8_565]	2.18	0.02
1:A:194:ALA:N	1:C:218:GLU:CD[8_565]	2.18	0.02
1:A:195:LEU:CD1	1:C:263:PHE:CZ[8_565]	2.18	0.02
1:A:197:ALA:C	1:C:238:ILE:CA[8_565]	2.18	0.02
1:A:198:PRO:N	1:C:238:ILE:N[8_565]	2.18	0.02
1:A:206:MET:N	1:C:223:ALA:CB[8_565]	2.18	0.02
1:A:213:GLU:CB	1:D:215:LYS:NZ[7_555]	2.18	0.02
1:B:6:LEU:CD1	1:C:87:SER:N[7_555]	2.18	0.02
1:B:11:PHE:O	1:C:19:GLU:CD[6_455]	2.18	0.02

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:16:ASP:OD2	1:C:210:LEU:CD1[6.455]	2.18	0.02
1:B:21:MET:C	1:C:60:ASN:CG[6.455]	2.18	0.02
1:B:40:ARG:C	1:C:56:PRO:CG[6.455]	2.18	0.02
1:B:58:PRO:CG	1:C:26:GLN:CA[6.455]	2.18	0.02
1:B:69:VAL:CG2	1:C:111:ASP:C[7.555]	2.18	0.02
1:B:77:ILE:N	1:C:113:PHE:CZ[7.555]	2.18	0.02
1:B:78:ALA:C	1:C:113:PHE:CE1[7.555]	2.18	0.02
1:B:80:GLN:OE1	1:C:195:LEU:N[7.555]	2.18	0.02
1:B:101:ALA:C	1:D:13:CYS:C[6.455]	2.18	0.02
1:B:105:ARG:C	1:C:114:THR:N[7.555]	2.18	0.02
1:B:106:GLN:N	1:C:63:ALA:O[7.555]	2.18	0.02
1:B:106:GLN:NE2	1:C:106:GLN:CG[7.555]	2.18	0.02
1:B:107:PHE:CZ	1:C:115:HIS:NE2[7.555]	2.18	0.02
1:B:114:THR:N	1:C:105:ARG:C[7.555]	2.18	0.02
1:B:119:VAL:CB	1:D:14:ARG:NE[6.455]	2.18	0.02
1:B:125:THR:C	1:D:105:ARG:N[8.565]	2.18	0.02
1:B:126:ASP:N	1:D:105:ARG:C[8.565]	2.18	0.02
1:B:135:CYS:C	1:D:81:VAL:O[8.565]	2.18	0.02
1:B:137:GLU:O	1:D:78:ALA:CA[8.565]	2.18	0.02
1:B:138:GLU:N	1:D:77:ILE:O[8.565]	2.18	0.02
1:B:143:PHE:O	1:D:85:CYS:CB[8.565]	2.18	0.02
1:B:143:PHE:CB	1:D:84:ALA:C[8.565]	2.18	0.02
1:B:144:GLY:N	1:D:82:GLU:O[8.565]	2.18	0.02
1:B:148:LEU:CA	1:C:82:GLU:C[7.555]	2.18	0.02
1:B:148:LEU:CD2	1:C:82:GLU:CG[7.555]	2.18	0.02
1:B:163:THR:CB	1:C:160:SER:CA[7.555]	2.18	0.02
1:B:215:LYS:C	1:D:162:PHE:CE2[8.565]	2.18	0.02
1:B:217:LYS:CB	1:D:195:LEU:CB[8.565]	2.18	0.02
1:B:218:GLU:N	1:D:194:ALA:O[8.565]	2.18	0.02
1:B:219:GLN:CA	1:D:150:VAL:CB[8.565]	2.18	0.02
1:B:221:ASP:CA	1:D:206:MET:O[8.565]	2.18	0.02
1:B:221:ASP:O	1:D:206:MET:CB[8.565]	2.18	0.02
1:B:223:ALA:O	1:D:206:MET:CG[8.565]	2.18	0.02
1:B:224:PHE:CB	1:D:203:LYS:N[8.565]	2.18	0.02
1:B:240:GLN:OE1	1:D:155:ARG:NH2[8.565]	2.18	0.02
1:B:249:PHE:CE1	1:D:204:PRO:CB[8.565]	2.18	0.02
1:B:265:GLY:N	1:D:160:SER:N[8.565]	2.18	0.02
1:C:182:PHE:CZ	1:C:278:PHE:CA[7.555]	2.18	0.02
1:D:281:ALA:CB	1:D:284:ILE:C[7.645]	2.18	0.02
1:A:45:LEU:CB	1:D:129:LEU:N[7.555]	2.19	0.01
1:A:51:ARG:CB	1:D:128:VAL:CB[7.555]	2.19	0.01
1:A:51:ARG:NH2	1:D:132:LEU:CD2[7.555]	2.19	0.01

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:56:PRO:C	1:C:96:ALA:C[6_455]	2.19	0.01
1:A:58:PRO:CD	1:C:96:ALA:CB[6_455]	2.19	0.01
1:A:59:ALA:N	1:C:102:ALA:C[6_455]	2.19	0.01
1:A:80:GLN:N	1:C:137:GLU:CA[8_565]	2.19	0.01
1:A:82:GLU:CA	1:C:136:GLY:O[8_565]	2.19	0.01
1:A:90:THR:N	1:C:47:GLY:O[8_565]	2.19	0.01
1:A:111:ASP:CA	1:C:261:LEU:CA[8_565]	2.19	0.01
1:A:112:GLY:C	1:C:29:ILE:CB[8_565]	2.19	0.01
1:A:115:HIS:N	1:C:129:LEU:O[8_565]	2.19	0.01
1:A:116:GLU:CA	1:C:129:LEU:CA[8_565]	2.19	0.01
1:A:123:PHE:O	1:D:26:GLN:O[7_555]	2.19	0.01
1:A:126:ASP:CA	1:D:31:ALA:C[7_555]	2.19	0.01
1:A:129:LEU:C	1:D:45:LEU:O[7_555]	2.19	0.01
1:A:133:PHE:CB	1:D:133:PHE:O[7_555]	2.19	0.01
1:A:133:PHE:CE1	1:D:130:GLU:CB[7_555]	2.19	0.01
1:A:135:CYS:SG	1:D:132:LEU:CA[7_555]	2.19	0.01
1:A:135:CYS:SG	1:D:132:LEU:CB[7_555]	2.19	0.01
1:A:137:GLU:CD	1:D:223:ALA:N[7_555]	2.19	0.01
1:A:140:ASN:CA	1:D:263:PHE:O[7_555]	2.19	0.01
1:A:141:GLY:N	1:D:263:PHE:CB[7_555]	2.19	0.01
1:A:158:THR:CG2	1:C:263:PHE:N[8_565]	2.19	0.01
1:A:219:GLN:N	1:D:137:GLU:CA[7_555]	2.19	0.01
1:A:262:GLY:CA	1:D:139:ALA:N[7_555]	2.19	0.01
1:B:8:TYR:C	1:C:87:SER:CA[7_555]	2.19	0.01
1:B:11:PHE:CE2	1:C:16:ASP:C[6_455]	2.19	0.01
1:B:13:CYS:N	1:C:18:LEU:O[6_455]	2.19	0.01
1:B:51:ARG:CZ	1:D:87:SER:C[8_565]	2.19	0.01
1:B:58:PRO:CA	1:C:25:TYR:C[6_455]	2.19	0.01
1:B:59:ALA:CA	1:C:24:VAL:C[6_455]	2.19	0.01
1:B:60:ASN:CB	1:C:21:MET:CA[6_455]	2.19	0.01
1:B:72:SER:O	1:C:204:PRO:CA[7_555]	2.19	0.01
1:B:80:GLN:CG	1:C:150:VAL:O[7_555]	2.19	0.01
1:B:85:CYS:N	1:C:192:THR:CG2[7_555]	2.19	0.01
1:B:107:PHE:CE1	1:C:115:HIS:CG[7_555]	2.19	0.01
1:B:113:PHE:N	1:C:74:LEU:CD1[7_555]	2.19	0.01
1:B:113:PHE:CA	1:C:117:LEU:CB[7_555]	2.19	0.01
1:B:113:PHE:CD2	1:C:77:ILE:CB[7_555]	2.19	0.01
1:B:113:PHE:CZ	1:C:77:ILE:N[7_555]	2.19	0.01
1:B:113:PHE:CZ	1:C:78:ALA:CA[7_555]	2.19	0.01
1:B:123:PHE:N	1:D:19:GLU:CB[6_455]	2.19	0.01
1:B:127:PRO:CG	1:D:104:VAL:CA[8_565]	2.19	0.01
1:B:129:LEU:N	1:D:116:GLU:N[8_565]	2.19	0.01

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:132:LEU:CA	1:D:115:HIS:CB[8.565]	2.19	0.01
1:B:134:VAL:CG2	1:D:161:PHE:CD1[8.565]	2.19	0.01
1:B:142:ILE:O	1:D:83:LYS:O[8.565]	2.19	0.01
1:B:142:ILE:CB	1:D:83:LYS:CD[8.565]	2.19	0.01
1:B:147:HIS:CB	1:C:83:LYS:O[7.555]	2.19	0.01
1:B:159:GLN:N	1:C:167:GLY:CA[7.555]	2.19	0.01
1:B:162:PHE:CG	1:C:161:PHE:C[7.555]	2.19	0.01
1:B:162:PHE:CZ	1:C:165:VAL:CB[7.555]	2.19	0.01
1:B:164:ASP:CG	1:C:184:LEU:CD2[7.555]	2.19	0.01
1:B:184:LEU:CD1	1:C:164:ASP:CB[7.555]	2.19	0.01
1:B:192:THR:CG2	1:C:85:CYS:N[7.555]	2.19	0.01
1:B:204:PRO:N	1:C:72:SER:O[7.555]	2.19	0.01
1:B:206:MET:C	1:C:75:ALA:O[7.555]	2.19	0.01
1:B:207:VAL:CA	1:C:79:GLU:CB[7.555]	2.19	0.01
1:B:221:ASP:CA	1:D:151:ILE:CB[8.565]	2.19	0.01
1:B:221:ASP:O	1:D:206:MET:C[8.565]	2.19	0.01
1:B:221:ASP:CB	1:D:151:ILE:CG1[8.565]	2.19	0.01
1:B:261:LEU:CG	1:D:111:ASP:CG[8.565]	2.19	0.01
1:C:173:ARG:CA	1:C:278:PHE:CD1[7.555]	2.19	0.01
1:D:107:PHE:CZ	5:B:561:HOH:O[8.655]	2.19	0.01
1:D:199:ALA:O	5:B:580:HOH:O[8.655]	2.19	0.01
1:D:280:ASP:CB	1:D:285:TRP:N[7.645]	2.19	0.01
1:D:281:ALA:N	1:D:284:ILE:CA[7.645]	2.19	0.01
1:A:26:GLN:O	1:D:124:PRO:O[7.555]	2.20	0.00
1:A:44:ARG:C	1:D:129:LEU:CA[7.555]	2.20	0.00
1:A:45:LEU:CB	1:D:128:VAL:O[7.555]	2.20	0.00
1:A:65:ILE:CD1	1:C:219:GLN:NE2[8.565]	2.20	0.00
1:A:84:ALA:C	1:C:143:PHE:CB[8.565]	2.20	0.00
1:A:86:TYR:N	1:C:144:GLY:CA[8.565]	2.20	0.00
1:A:104:VAL:C	1:C:127:PRO:N[8.565]	2.20	0.00
1:A:115:HIS:O	1:C:129:LEU:CB[8.565]	2.20	0.00
1:A:115:HIS:CG	1:C:133:PHE:CA[8.565]	2.20	0.00
1:A:124:PRO:CA	1:D:26:GLN:CA[7.555]	2.20	0.00
1:A:125:THR:O	1:D:33:VAL:CG2[7.555]	2.20	0.00
1:A:142:ILE:C	1:D:216:SER:CA[7.555]	2.20	0.00
1:A:150:VAL:CB	1:C:218:GLU:O[8.565]	2.20	0.00
1:A:151:ILE:CA	1:C:221:ASP:OD1[8.565]	2.20	0.00
1:A:158:THR:CB	1:C:263:PHE:O[8.565]	2.20	0.00
1:A:206:MET:CG	1:C:226:ALA:N[8.565]	2.20	0.00
1:B:21:MET:O	1:C:60:ASN:CA[6.455]	2.20	0.00
1:B:67:TRP:CD1	1:C:107:PHE:CE1[7.555]	2.20	0.00
1:B:76:ALA:CB	1:C:205:GLY:N[7.555]	2.20	0.00

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:83:LYS:CG	1:C:148:LEU:CA[7_555]	2.20	0.00
1:B:85:CYS:N	1:C:192:THR:O[7_555]	2.20	0.00
1:B:102:ALA:C	1:D:59:ALA:N[6_455]	2.20	0.00
1:B:110:ASN:CG	1:C:5:GLN:N[7_555]	2.20	0.00
1:B:136:GLY:O	1:D:81:VAL:CA[8_565]	2.20	0.00
1:B:159:GLN:CG	1:C:164:ASP:CA[7_555]	2.20	0.00
1:B:238:ILE:CG2	1:D:197:ALA:N[8_565]	2.20	0.00
1:B:261:LEU:CB	1:D:111:ASP:OD1[8_565]	2.20	0.00
1:C:182:PHE:CE1	1:C:278:PHE:N[7_555]	2.20	0.00
1:D:222:ARG:NE	5:A:569:HOH:O[7_555]	2.20	0.00

## 5.3 Torsion angles

### 5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	287/294 (98%)	283 (99%)	4 (1%)	0	100	100
1	B	287/294 (98%)	281 (98%)	6 (2%)	0	100	100
1	C	287/294 (98%)	282 (98%)	5 (2%)	0	100	100
1	D	287/294 (98%)	282 (98%)	5 (2%)	0	100	100
All	All	1148/1176 (98%)	1128 (98%)	20 (2%)	0	100	100

There are no Ramachandran outliers to report.

### 5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	231/235 (98%)	228 (99%)	3 (1%)	80	85
1	B	231/235 (98%)	229 (99%)	2 (1%)	87	91

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	231/235 (98%)	227 (98%)	4 (2%)	73	78
1	D	231/235 (98%)	228 (99%)	3 (1%)	80	85
All	All	924/940 (98%)	912 (99%)	12 (1%)	80	85

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	218	GLU
1	A	245	LYS
1	A	290	GLN
1	B	3	VAL
1	B	245	LYS
1	C	111	ASP
1	C	125	THR
1	C	218	GLU
1	C	290	GLN
1	D	18	LEU
1	D	222	ARG
1	D	233	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	C	110	ASN
1	D	275	HIS

### 5.3.3 RNA ⓘ

There are no RNA chains in this entry.

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

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

## 5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

## 5.6 Ligand geometry ⓘ

Of 8 ligands modelled in this entry, 4 are monoatomic - leaving 4 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	$\# Z  > 2$
3	P6G	A	302	-	18,18,18	0.51	0	17,17,17	0.34	0
4	SO4	A	303	-	4,4,4	0.10	0	6,6,6	0.07	0
3	P6G	B	302	-	18,18,18	0.47	0	17,17,17	0.56	0
4	SO4	B	303	-	4,4,4	0.18	0	6,6,6	0.14	0

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
3	P6G	A	302	-	-	0/16/16/16	0/0/0/0
4	SO4	A	303	-	-	0/0/0/0	0/0/0/0
3	P6G	B	302	-	-	0/16/16/16	0/0/0/0
4	SO4	B	303	-	-	0/0/0/0	0/0/0/0

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

## 5.7 Other polymers ⓘ

There are no such residues in this entry.



## 5.8 Polymer linkage issues

There are no chain breaks in this entry.

## 6 Fit of model and data ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 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	289/294 (98%)	0.43	26 (8%) 10 10	11, 23, 37, 46	289 (100%)
1	B	289/294 (98%)	0.41	27 (9%) 9 9	11, 23, 37, 45	289 (100%)
1	C	289/294 (98%)	4.50	183 (63%) 0 0	11, 23, 37, 44	289 (100%)
1	D	289/294 (98%)	4.50	218 (75%) 0 0	11, 23, 36, 44	289 (100%)
All	All	1156/1176 (98%)	2.46	454 (39%) 1 1	11, 23, 37, 46	1156 (100%)

All (454) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	232	TYR	25.0
1	C	227	VAL	19.6
1	C	230	LEU	19.4
1	C	28	ILE	18.9
1	C	226	ALA	17.4
1	C	152	VAL	15.7
1	C	229	ARG	15.2
1	D	62	LEU	15.1
1	D	276	VAL	14.5
1	C	258	ALA	14.5
1	D	60	ASN	14.3
1	C	91	ALA	14.1
1	C	71	PRO	13.9
1	C	156	ALA	13.9
1	C	259	VAL	13.7
1	C	95	LEU	13.6
1	C	274	TRP	13.4
1	C	43	VAL	13.2
1	C	268	ILE	13.2
1	B	200	LEU	13.0
1	D	123	PHE	12.8

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Mol	Chain	Res	Type	RSRZ
1	C	252	MET	12.7
1	D	163	THR	12.6
1	D	255	ALA	12.5
1	C	251	MET	12.4
1	D	200	LEU	12.2
1	D	122	SER	11.7
1	D	11	PHE	11.6
1	C	153	ALA	11.6
1	D	170	LEU	11.6
1	C	50	PHE	11.6
1	C	93	ALA	11.5
1	D	10	ILE	11.3
1	C	202	LEU	11.3
1	D	63	ALA	11.3
1	C	231	GLY	11.2
1	D	182	PHE	11.1
1	C	257	PHE	11.0
1	D	267	VAL	10.9
1	D	275	HIS	10.8
1	C	139	ALA	10.8
1	C	233	ASP	10.6
1	C	235	LEU	10.4
1	C	32	VAL	10.3
1	C	197	ALA	10.2
1	C	210	LEU	10.2
1	C	70	ASP	9.8
1	D	257	PHE	9.8
1	C	154	ASP	9.6
1	A	200	LEU	9.6
1	D	168	PHE	9.6
1	D	274	TRP	9.6
1	D	64	ALA	9.6
1	D	184	LEU	9.5
1	D	278	PHE	9.5
1	C	27	ASP	9.5
1	D	77	ILE	9.5
1	C	155	ARG	9.2
1	C	184	LEU	9.2
1	C	203	LYS	9.2
1	D	193	VAL	9.2
1	C	100	ALA	9.1
1	D	145	LEU	9.1

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Mol	Chain	Res	Type	RSRZ
1	C	92	ASP	9.1
1	D	254	PRO	8.8
1	C	151	ILE	8.8
1	D	42	LEU	8.8
1	C	170	LEU	8.8
1	D	231	GLY	8.8
1	C	250	TYR	8.7
1	D	273	SER	8.7
1	C	267	VAL	8.7
1	D	166	LEU	8.6
1	C	234	VAL	8.6
1	C	99	ARG	8.6
1	D	61	ARG	8.6
1	D	91	ALA	8.5
1	D	54	LEU	8.4
1	C	72	SER	8.4
1	C	81	VAL	8.3
1	C	169	GLY	8.3
1	C	147	HIS	8.3
1	D	48	ARG	8.3
1	D	9	LEU	8.3
1	D	33	VAL	8.3
1	C	269	GLY	8.2
1	B	85	CYS	8.2
1	C	275	HIS	8.1
1	C	42	LEU	8.0
1	D	178	GLU	8.0
1	C	273	SER	8.0
1	D	277	GLY	8.0
1	C	266	GLN	8.0
1	C	271	LEU	7.9
1	C	171	SER	7.9
1	D	22	VAL	7.8
1	C	277	GLY	7.8
1	C	193	VAL	7.8
1	D	49	PRO	7.7
1	D	169	GLY	7.7
1	D	271	LEU	7.7
1	D	246	VAL	7.7
1	D	29	ILE	7.7
1	D	186	CYS	7.7
1	C	278	PHE	7.7

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Mol	Chain	Res	Type	RSRZ
1	C	196	SER	7.6
1	C	185	HIS	7.6
1	D	30	GLY	7.6
1	C	253	ALA	7.6
1	C	200	LEU	7.5
1	D	41	ALA	7.5
1	D	261	LEU	7.5
1	D	269	GLY	7.4
1	D	268	ILE	7.4
1	D	121	SER	7.4
1	C	189	ARG	7.4
1	C	44	ARG	7.4
1	C	228	LYS	7.4
1	C	209	HIS	7.4
1	D	97	ALA	7.4
1	C	276	VAL	7.3
1	D	238	ILE	7.3
1	D	100	ALA	7.3
1	D	181	ILE	7.3
1	D	39	GLY	7.2
1	D	28	ILE	7.2
1	D	50	PHE	7.2
1	C	118	TYR	7.2
1	D	38	GLY	7.2
1	D	256	GLY	7.1
1	D	12	GLU	7.1
1	D	192	THR	7.1
1	C	34	GLU	7.1
1	D	78	ALA	7.0
1	D	47	GLY	6.9
1	C	186	CYS	6.8
1	C	183	PHE	6.8
1	D	3	VAL	6.8
1	C	279	TYR	6.8
1	C	195	LEU	6.7
1	D	117	LEU	6.7
1	D	101	ALA	6.7
1	C	199	ALA	6.6
1	D	6	LEU	6.6
1	C	201	GLY	6.6
1	D	66	GLY	6.6
1	C	190	HIS	6.6

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Mol	Chain	Res	Type	RSRZ
1	C	49	PRO	6.6
1	D	265	GLY	6.6
1	D	247	TYR	6.6
1	D	93	ALA	6.5
1	C	52	ILE	6.5
1	C	244	ASP	6.5
1	D	180	ASP	6.5
1	D	8	TYR	6.5
1	D	173	ARG	6.5
1	D	221	ASP	6.4
1	D	171	SER	6.4
1	D	7	GLY	6.3
1	D	95	LEU	6.3
1	C	98	ASP	6.3
1	A	177	PRO	6.3
1	D	187	ASN	6.3
1	C	241	HIS	6.3
1	C	31	ALA	6.3
1	C	214	ALA	6.3
1	C	2	SER	6.2
1	D	148	LEU	6.2
1	D	212	LEU	6.2
1	C	284	ILE	6.2
1	D	144	GLY	6.1
1	D	279	TYR	6.1
1	D	167	GLY	6.1
1	D	76	ALA	6.0
1	C	96	ALA	6.0
1	C	285	TRP	6.0
1	C	135	CYS	6.0
1	D	281	ALA	6.0
1	D	162	PHE	5.9
1	C	94	GLU	5.8
1	D	210	LEU	5.8
1	D	20	GLN	5.8
1	C	187	ASN	5.7
1	C	260	GLU	5.7
1	D	31	ALA	5.7
1	D	2	SER	5.7
1	D	183	PHE	5.7
1	D	270	ASP	5.7
1	D	96	ALA	5.7

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Mol	Chain	Res	Type	RSRZ
1	C	8	TYR	5.6
1	C	7	GLY	5.6
1	D	189	ARG	5.5
1	D	23	VAL	5.5
1	D	283	SER	5.5
1	D	149	VAL	5.5
1	C	9	LEU	5.5
1	C	239	GLY	5.5
1	D	222	ARG	5.5
1	C	191	HIS	5.4
1	D	69	VAL	5.4
1	D	201	GLY	5.4
1	C	33	VAL	5.4
1	C	101	ALA	5.4
1	C	242	SER	5.3
1	D	53	ARG	5.3
1	D	258	ALA	5.3
1	D	51	ARG	5.3
1	C	146	GLY	5.3
1	D	172	ASP	5.3
1	B	177	PRO	5.3
1	D	119	VAL	5.3
1	B	178	GLU	5.3
1	D	188	GLN	5.2
1	C	5	GLN	5.2
1	C	104	VAL	5.2
1	D	208	HIS	5.2
1	D	103	GLN	5.2
1	D	27	ASP	5.1
1	C	3	VAL	5.1
1	A	176	TRP	5.1
1	C	207	VAL	5.1
1	A	179	ALA	5.1
1	C	208	HIS	5.1
1	D	102	ALA	5.1
1	D	226	ALA	5.1
1	D	104	VAL	5.0
1	C	180	ASP	5.0
1	C	270	ASP	5.0
1	D	179	ALA	5.0
1	C	53	ARG	5.0
1	D	185	HIS	5.0

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Mol	Chain	Res	Type	RSRZ
1	C	204	PRO	4.9
1	D	220	VAL	4.9
1	D	234	VAL	4.9
1	C	237	THR	4.9
1	D	245	LYS	4.9
1	D	36	ASP	4.9
1	D	99	ARG	4.8
1	D	24	VAL	4.8
1	D	284	ILE	4.8
1	C	38	GLY	4.8
1	C	188	GLN	4.8
1	C	246	VAL	4.8
1	C	172	ASP	4.8
1	D	34	GLU	4.8
1	D	55	ASP	4.8
1	C	13	CYS	4.8
1	D	174	VAL	4.8
1	D	40	ARG	4.8
1	D	74	LEU	4.7
1	D	67	TRP	4.7
1	A	128	VAL	4.7
1	D	253	ALA	4.7
1	C	194	ALA	4.7
1	D	232	TYR	4.7
1	C	36	ASP	4.7
1	C	213	GLU	4.7
1	C	236	MET	4.7
1	B	199	ALA	4.6
1	D	43	VAL	4.6
1	D	146	GLY	4.6
1	D	5	GLN	4.6
1	D	120	GLU	4.6
1	D	259	VAL	4.6
1	C	26	GLN	4.6
1	D	52	ILE	4.5
1	D	35	ARG	4.5
1	D	213	GLU	4.5
1	D	75	ALA	4.5
1	D	266	GLN	4.5
1	C	198	PRO	4.5
1	C	149	VAL	4.4
1	C	24	VAL	4.4

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Mol	Chain	Res	Type	RSRZ
1	D	289	LEU	4.4
1	C	182	PHE	4.4
1	D	118	TYR	4.3
1	D	272	GLU	4.3
1	C	243	ASN	4.3
1	C	290	GLN	4.3
1	D	25	TYR	4.3
1	D	175	THR	4.2
1	D	94	GLU	4.2
1	C	4	LYS	4.2
1	D	191	HIS	4.2
1	D	92	ASP	4.2
1	C	74	LEU	4.2
1	A	199	ALA	4.1
1	B	179	ALA	4.1
1	D	98	ASP	4.1
1	C	62	LEU	4.1
1	D	223	ALA	4.1
1	D	230	LEU	4.1
1	A	178	GLU	4.0
1	D	228	LYS	4.0
1	D	147	HIS	4.0
1	D	280	ASP	4.0
1	D	65	ILE	4.0
1	C	181	ILE	4.0
1	C	68	ASN	4.0
1	C	35	ARG	3.9
1	C	289	LEU	3.9
1	D	68	ASN	3.9
1	D	248	SER	3.9
1	B	176	TRP	3.9
1	D	242	SER	3.9
1	A	175	THR	3.9
1	D	211	MET	3.8
1	D	209	HIS	3.8
1	C	168	PHE	3.8
1	D	239	GLY	3.8
1	C	192	THR	3.8
1	D	4	LYS	3.8
1	C	150	VAL	3.8
1	D	32	VAL	3.8
1	D	194	ALA	3.8

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Mol	Chain	Res	Type	RSRZ
1	A	201	GLY	3.7
1	C	97	ALA	3.7
1	D	225	ALA	3.7
1	A	127	PRO	3.7
1	B	231	GLY	3.7
1	D	227	VAL	3.6
1	C	111	ASP	3.6
1	C	37	GLU	3.6
1	C	73	ASP	3.6
1	D	262	GLY	3.6
1	D	176	TRP	3.6
1	A	231	GLY	3.6
1	C	287	HIS	3.6
1	D	21	MET	3.5
1	C	206	MET	3.5
1	D	109	ASP	3.5
1	C	145	LEU	3.5
1	D	190	HIS	3.5
1	B	290	GLN	3.4
1	B	201	GLY	3.4
1	D	285	TRP	3.4
1	D	236	MET	3.4
1	C	6	LEU	3.4
1	C	281	ALA	3.3
1	B	202	LEU	3.3
1	D	45	LEU	3.3
1	C	283	SER	3.3
1	D	159	GLN	3.3
1	C	174	VAL	3.3
1	C	10	ILE	3.3
1	D	134	VAL	3.2
1	A	85	CYS	3.2
1	C	141	GLY	3.2
1	C	216	SER	3.2
1	D	71	PRO	3.2
1	D	17	VAL	3.2
1	C	90	THR	3.2
1	C	21	MET	3.1
1	C	176	TRP	3.1
1	C	211	MET	3.1
1	D	252	MET	3.1
1	C	105	ARG	3.1

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Mol	Chain	Res	Type	RSRZ
1	D	229	ARG	3.1
1	A	232	TYR	3.1
1	D	56	PRO	3.1
1	D	240	GLN	3.1
1	C	175	THR	3.0
1	D	131	SER	3.0
1	B	164	ASP	3.0
1	D	70	ASP	3.0
1	C	66	GLY	3.0
1	C	177	PRO	3.0
1	A	233	ASP	3.0
1	C	256	GLY	3.0
1	C	125	THR	3.0
1	D	249	PHE	3.0
1	D	106	GLN	2.9
1	C	272	GLU	2.9
1	D	37	GLU	2.9
1	D	233	ASP	2.9
1	C	179	ALA	2.9
1	A	154	ASP	2.9
1	B	280	ASP	2.9
1	A	202	LEU	2.9
1	B	130	GLU	2.9
1	C	57	GLY	2.9
1	D	264	GLY	2.9
1	B	216	SER	2.8
1	A	125	THR	2.8
1	D	199	ALA	2.8
1	D	88	VAL	2.8
1	D	80	GLN	2.8
1	D	241	HIS	2.8
1	A	289	LEU	2.7
1	C	54	LEU	2.7
1	C	247	TYR	2.7
1	A	203	LYS	2.7
1	C	67	TRP	2.7
1	D	116	GLU	2.7
1	C	282	PRO	2.6
1	B	288	GLU	2.6
1	D	143	PHE	2.6
1	D	128	VAL	2.6
1	D	26	GLN	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	290	GLN	2.6
1	C	82	GLU	2.6
1	B	175	THR	2.6
1	D	133	PHE	2.6
1	D	263	PHE	2.6
1	D	165	VAL	2.5
1	C	280	ASP	2.5
1	C	262	GLY	2.5
1	B	125	THR	2.5
1	D	142	ILE	2.5
1	D	224	PHE	2.4
1	C	225	ALA	2.4
1	D	44	ARG	2.4
1	D	160	SER	2.4
1	C	48	ARG	2.4
1	C	238	ILE	2.4
1	D	250	TYR	2.4
1	C	29	ILE	2.4
1	D	235	LEU	2.4
1	B	272	GLU	2.4
1	B	94	GLU	2.4
1	C	173	ARG	2.3
1	D	288	GLU	2.3
1	D	237	THR	2.3
1	A	234	VAL	2.3
1	D	72	SER	2.3
1	D	135	CYS	2.3
1	B	180	ASP	2.3
1	D	286	GLY	2.3
1	C	165	VAL	2.2
1	D	108	ALA	2.2
1	D	150	VAL	2.2
1	C	245	LYS	2.2
1	C	65	ILE	2.2
1	D	243	ASN	2.2
1	A	280	ASP	2.2
1	B	128	VAL	2.2
1	C	51	ARG	2.2
1	D	46	ASP	2.2
1	C	240	GLN	2.2
1	A	288	GLU	2.1
1	D	202	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	153	ALA	2.1
1	B	275	HIS	2.1
1	C	117	LEU	2.1
1	C	286	GLY	2.1
1	B	154	ASP	2.1
1	A	285	TRP	2.1
1	D	196	SER	2.1
1	B	84	ALA	2.1
1	B	80	GLN	2.1
1	A	180	ASP	2.0
1	C	112	GLY	2.0
1	D	251	MET	2.0
1	A	216	SER	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 ⓘ

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	RSR	LLDF	B-factors(Å <sup>2</sup> )	Q<0.9
3	P6G	A	302	19/19	0.19	0.21	42,46,52,53	19
4	SO4	A	303	5/5	0.17	0.15	48,48,50,50	5
4	SO4	B	303	5/5	0.19	0.07	46,46,47,48	5
3	P6G	B	302	19/19	0.19	-0.45	36,39,46,48	19
2	FE2	D	300	1/1	0.28	-1.10	20,20,20,20	1
2	FE2	C	300	1/1	0.26	-2.02	20,20,20,20	1
2	FE2	B	301	1/1	0.04	-2.28	20,20,20,20	1
2	FE2	A	301	1/1	0.04	-4.24	21,21,21,21	1

## 6.5 Other polymers ⓘ

There are no such residues in this entry.