



## wwPDB EM Map/Model Validation Report ⓘ

Apr 10, 2016 – 01:54 PM BST

PDB ID : 3ZX9  
EMDB ID: : EMD-1864  
Title : Cryo-EM reconstruction of native and expanded Turnip Crinkle virus  
Authors : Bakker, S.E.; Robottom, J.; Pearson, A.R.; Stockley, P.G.; Ranson, N.A.  
Deposited on : 2011-08-08  
Resolution : 17.00 Å(reported)

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.  
For rigid body fitted models, validation errors reported here could stem from errors in the original structure(s) used in the fitting.  
We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)  
A user guide is available at  
<http://wwpdb.org/validation/2016/EMValidationReportHelp>

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MolProbity : 4.02b-467  
Mogul : unknown  
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)  
Validation Pipeline (wwPDB-VP) : trunk27241

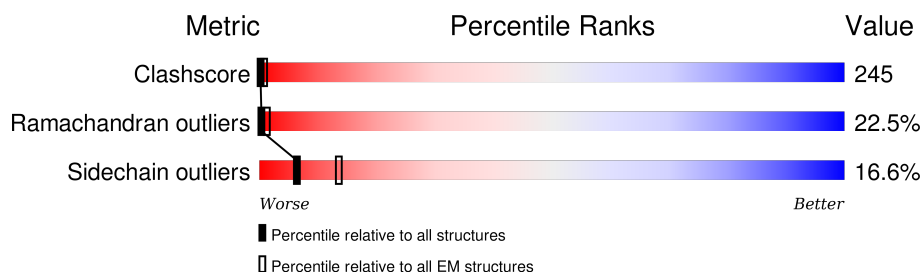
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 17.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	347	
1	B	347	
1	C	347	

## 2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 6284 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called CAPSID PROTEIN.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	267	Total	C	N	O	S	0	0
			2024	1280	343	396	5		
1	B	267	Total	C	N	O	S	0	0
			2024	1280	343	396	5		
1	C	295	Total	C	N	O	S	0	0
			2236	1409	386	436	5		

There are 15 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	.	-	ASN	DELETION	UNP P06663
A	.	-	ASP	DELETION	UNP P06663
A	.	-	ALA	DELETION	UNP P06663
A	.	-	ASP	DELETION	UNP P06663
A	346	TRP	LEU	VARIANT	UNP P06663
B	.	-	ASN	DELETION	UNP P06663
B	.	-	ASP	DELETION	UNP P06663
B	.	-	ALA	DELETION	UNP P06663
B	.	-	ASP	DELETION	UNP P06663
B	346	TRP	LEU	VARIANT	UNP P06663
C	.	-	ASN	DELETION	UNP P06663
C	.	-	ASP	DELETION	UNP P06663
C	.	-	ALA	DELETION	UNP P06663
C	.	-	ASP	DELETION	UNP P06663
C	346	TRP	LEU	VARIANT	UNP P06663



F308
S309
V310
L311
ASP
PRO
ARG
VAL
ARG
ARG
LYS
PHE
ALA
SER
ASP
ASP
GLY
ALA
GLN
G323
V324
K325
V326
A327
E328
R329
G330
L331
G332
V333
K334
R335
V336
T337
THR
SER
ARG
GLN
LYS
G342
THR
ALA
K344
K345
W346
Q347
A348
L349
R350
I351

● Molecule 1: CAPSID PROTEIN



MET
GLU
ASN
ASP
PRO
ARG
VAL
ARG
LYS
PHE
ALA
SER
ASP
GLY
ALA
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TRP
ALA
ILE
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GLN
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THR
LEU
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THR
SER
ARG
GLN
LYS
G342
THR
ALA
ARG
ALA
ALA
MET
GLY
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LEU
SER
PRO
VAL
ALA
GLN
PRO
VAL
Q53
K54
V55
T56
R57
L58
S59
A60

P61
V62
A63
L64
A65
Y66
R67
E68
V69
S70
T71
Q72
P73
R74
V75
S76
T77
A78
R79
D80
G81
I82
T83
R84
S85
G86
S87
E88
L89
I90
T91
T92
L93
K94
K95
N96
T97
D98
T99
E100
P101
K102
Y103
T104
T105
A106
V107
L108
N109
P110
S111
E112
G114
T115
F116
N117
Q118
L119
I120

K121
E122
A123
A124
Q125
Y126
E127
K128
Y129
R130
F131
T132
S133
L134
R135
F136
R137
Y138
S139
P140
M141
S142
P143
S144
T145
T146
K149
V150
A151
L152
A153
F154
D155
R156
D157
A158
A159
P160
P161
P162
P163
N164
D165
L166
A167
S168
L169
Y170
N171
I172
E173
G174
C175
Y176
S177
S178
V179
P180
W181

T182
G183
F184
I185
L186
T187
V188
D191
S192
R195
F196
V197
A198
D199
G200
S201
S202
D203
P204
K205
L206
T207
D208
F209
G210
K211
L212
L213
T214
M214
A215
T216
Y217
G218
Q219
G220
A221
A225
Q226
L227
V230
R231
V232
E233
Y234
T235
V236
Q237
L238
K239
N240
R241
T242
G243
S244
T245
S246
A248

Q249
I250
G251
D252
F253
A254
G255
V256
K257
D258
G259
P260
R261
L262
V263
S264
W265
S266
K267
T268
K269
G270
T271
A272
G273
W274
E275
H276
D277
C278
H279
F280
L281
G282
T283
G284
N285
F286
S287
L288
T289
L290
F291
V292
E293
K294
A295
F296
Y297
S298
G299
I300
E301
N302
A303
D304
A305
S306
D307
F308

S309
V310
L311
G312
E313
A314
A315
A316
G317
S318
V319
Q320
H321
A322
G323
V324
K325
V326
A327
E328
R329
G330
Q331
G332
V333
K334
R335
V336
T337
T338
E339
E340
Q341
P342
K343
G344
K345
W346
Q347
A348
L349
R350
I351

## 4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of images	Not provided	Depositor
Resolution determination method	Not provided	Depositor
CTF correction method	PHASE-FLIPPING EACH PARTICLE	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	15	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3500	Depositor
Magnification	50000	Depositor
Image detector	KODAK SO163 FILM	Depositor

## 5 Model quality ⓘ

### 5.1 Standard geometry ⓘ

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 5$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z  > 2$	RMSZ	# $ Z  > 2$
1	A	2.49	42/2068 (2.0%)	2.48	130/2804 (4.6%)
1	B	2.49	42/2068 (2.0%)	2.48	130/2804 (4.6%)
1	C	2.51	56/2282 (2.5%)	2.46	145/3096 (4.7%)
All	All	2.50	140/6418 (2.2%)	2.47	405/8704 (4.7%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	8
1	B	0	8
1	C	0	10
All	All	0	26

All (140) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	201	ILE	C-N	-42.35	0.36	1.34
1	C	201	ILE	C-N	-42.34	0.36	1.34
1	A	201	ILE	C-N	-42.34	0.36	1.34
1	B	93	LEU	N-CA	-41.10	0.64	1.46
1	C	93	LEU	N-CA	-41.09	0.64	1.46
1	A	93	LEU	N-CA	-41.09	0.64	1.46
1	A	259	GLY	C-N	33.07	1.97	1.34
1	C	259	GLY	C-N	33.04	1.97	1.34
1	B	259	GLY	C-N	33.02	1.97	1.34
1	C	133	SER	CB-OG	29.87	1.81	1.42
1	B	133	SER	CB-OG	29.86	1.81	1.42
1	A	133	SER	CB-OG	29.78	1.80	1.42
1	B	82	ILE	C-N	20.46	1.81	1.34
1	A	82	ILE	C-N	20.44	1.81	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	82	ILE	C-N	20.43	1.81	1.34
1	B	149	LYS	CD-CE	19.49	2.00	1.51
1	C	149	LYS	CD-CE	19.45	1.99	1.51
1	A	149	LYS	CD-CE	19.41	1.99	1.51
1	A	279	HIS	C-N	17.63	1.74	1.34
1	B	279	HIS	C-N	17.59	1.74	1.34
1	C	279	HIS	C-N	17.56	1.74	1.34
1	A	288	LEU	C-N	-17.33	0.94	1.34
1	B	288	LEU	C-N	-17.28	0.94	1.34
1	C	288	LEU	C-N	-17.26	0.94	1.34
1	A	291	PHE	C-N	16.19	1.71	1.34
1	C	291	PHE	C-N	16.18	1.71	1.34
1	B	291	PHE	C-N	16.15	1.71	1.34
1	A	264	SER	C-N	15.13	1.68	1.34
1	C	264	SER	C-N	15.12	1.68	1.34
1	B	264	SER	C-N	15.11	1.68	1.34
1	B	339	GLU	C-N	14.95	1.68	1.34
1	A	339	GLU	C-N	14.94	1.68	1.34
1	C	339	GLU	C-N	14.94	1.68	1.34
1	C	76	SER	N-CA	14.84	1.76	1.46
1	C	297	VAL	C-N	-14.48	1.00	1.34
1	B	297	VAL	C-N	-14.45	1.00	1.34
1	A	297	VAL	C-N	-14.44	1.00	1.34
1	C	53	GLN	C-N	14.32	1.67	1.34
1	C	177	SER	C-N	-12.83	1.04	1.34
1	B	177	SER	C-N	-12.83	1.04	1.34
1	A	177	SER	C-N	-12.76	1.04	1.34
1	A	121	LYS	CE-NZ	12.07	1.79	1.49
1	B	121	LYS	CE-NZ	12.07	1.79	1.49
1	C	121	LYS	CE-NZ	12.05	1.79	1.49
1	A	319	VAL	C-N	11.99	1.61	1.34
1	B	319	VAL	C-N	11.99	1.61	1.34
1	C	319	VAL	C-N	11.98	1.61	1.34
1	B	139	SER	C-N	-11.58	1.12	1.34
1	A	139	SER	C-N	-11.53	1.12	1.34
1	C	139	SER	C-N	-11.47	1.12	1.34
1	C	75	VAL	C-N	11.45	1.60	1.34
1	C	140	PRO	N-CD	-10.99	1.32	1.47
1	A	140	PRO	N-CD	-10.95	1.32	1.47
1	C	75	VAL	N-CA	10.87	1.68	1.46
1	B	140	PRO	N-CD	-10.86	1.32	1.47
1	C	308	PHE	C-N	-9.60	1.11	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	308	PHE	C-N	-9.59	1.11	1.34
1	A	308	PHE	C-N	-9.59	1.11	1.34
1	A	200	GLY	C-N	-9.39	1.12	1.34
1	C	200	GLY	C-N	-9.38	1.12	1.34
1	B	200	GLY	C-N	-9.36	1.12	1.34
1	B	91	THR	N-CA	9.31	1.65	1.46
1	C	91	THR	N-CA	9.27	1.64	1.46
1	A	91	THR	N-CA	9.25	1.64	1.46
1	B	298	SER	C-N	-9.15	1.16	1.33
1	C	298	SER	C-N	-9.12	1.16	1.33
1	A	298	SER	C-N	-9.10	1.16	1.33
1	B	299	GLY	N-CA	-9.04	1.32	1.46
1	C	299	GLY	N-CA	-9.01	1.32	1.46
1	A	299	GLY	N-CA	-9.01	1.32	1.46
1	C	75	VAL	CA-C	8.92	1.76	1.52
1	C	77	THR	N-CA	8.68	1.63	1.46
1	A	315	ALA	C-N	-8.64	1.14	1.34
1	C	315	ALA	C-N	-8.63	1.14	1.34
1	B	315	ALA	C-N	-8.63	1.14	1.34
1	C	76	SER	CA-C	8.62	1.75	1.52
1	A	299	GLY	CA-C	-8.51	1.38	1.51
1	C	299	GLY	CA-C	-8.48	1.38	1.51
1	B	299	GLY	CA-C	-8.44	1.38	1.51
1	A	260	PRO	C-N	-8.04	1.15	1.34
1	C	260	PRO	C-N	-8.03	1.15	1.34
1	C	74	ARG	C-N	8.02	1.52	1.34
1	B	260	PRO	C-N	-8.01	1.15	1.34
1	C	323	GLY	C-N	-7.71	1.16	1.34
1	B	323	GLY	C-N	-7.70	1.16	1.34
1	A	323	GLY	C-N	-7.66	1.16	1.34
1	C	290	LEU	C-N	7.61	1.51	1.34
1	B	290	LEU	C-N	7.60	1.51	1.34
1	A	290	LEU	C-N	7.57	1.51	1.34
1	C	300	LEU	N-CA	-7.56	1.31	1.46
1	B	300	LEU	N-CA	-7.54	1.31	1.46
1	A	300	LEU	N-CA	-7.53	1.31	1.46
1	B	330	GLY	C-N	7.13	1.50	1.34
1	A	330	GLY	C-N	7.10	1.50	1.34
1	C	330	GLY	C-N	7.09	1.50	1.34
1	B	303	ALA	C-N	7.07	1.50	1.34
1	C	303	ALA	C-N	7.04	1.50	1.34
1	A	303	ALA	C-N	7.00	1.50	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	299	GLY	C-N	-6.99	1.18	1.34
1	B	299	GLY	C-N	-6.96	1.18	1.34
1	C	299	GLY	C-N	-6.95	1.18	1.34
1	C	72	GLN	C-N	6.88	1.47	1.34
1	C	74	ARG	N-CA	6.68	1.59	1.46
1	C	76	SER	C-N	6.64	1.49	1.34
1	B	259	GLY	CA-C	6.51	1.62	1.51
1	C	74	ARG	CA-C	6.49	1.69	1.52
1	C	259	GLY	CA-C	6.44	1.62	1.51
1	A	259	GLY	CA-C	6.39	1.62	1.51
1	A	175	CYS	C-N	-6.38	1.19	1.34
1	C	175	CYS	C-N	-6.37	1.19	1.34
1	B	175	CYS	C-N	-6.34	1.19	1.34
1	B	90	ILE	CA-C	6.26	1.69	1.52
1	A	90	ILE	CA-C	6.25	1.69	1.52
1	C	90	ILE	CA-C	6.23	1.69	1.52
1	A	140	PRO	CA-CB	-6.14	1.41	1.53
1	B	140	PRO	CA-CB	-6.13	1.41	1.53
1	C	140	PRO	CA-CB	-6.11	1.41	1.53
1	C	163	PRO	N-CA	-6.06	1.36	1.47
1	B	163	PRO	N-CA	-6.05	1.36	1.47
1	A	163	PRO	N-CA	-6.01	1.37	1.47
1	B	221	ALA	C-N	5.84	1.47	1.34
1	A	221	ALA	C-N	5.84	1.47	1.34
1	C	221	ALA	C-N	5.82	1.47	1.34
1	B	175	CYS	CA-C	-5.74	1.38	1.52
1	C	175	CYS	CA-C	-5.73	1.38	1.52
1	A	175	CYS	CA-C	-5.70	1.38	1.52
1	A	88	GLU	C-N	-5.51	1.21	1.34
1	C	70	SER	C-N	-5.50	1.21	1.34
1	B	88	GLU	C-N	-5.46	1.21	1.34
1	C	88	GLU	C-N	-5.45	1.21	1.34
1	A	284	GLY	N-CA	5.32	1.54	1.46
1	B	284	GLY	N-CA	5.29	1.53	1.46
1	C	284	GLY	N-CA	5.26	1.53	1.46
1	C	176	VAL	N-CA	-5.26	1.35	1.46
1	A	176	VAL	N-CA	-5.23	1.35	1.46
1	B	176	VAL	N-CA	-5.22	1.35	1.46
1	C	203	ASP	C-N	5.21	1.44	1.34
1	B	203	ASP	C-N	5.20	1.44	1.34
1	A	203	ASP	C-N	5.19	1.44	1.34
1	C	274	TRP	NE1-CE2	-5.03	1.31	1.37

All (405) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	201	ILE	O-C-N	-59.03	28.25	122.70
1	A	201	ILE	O-C-N	-59.02	28.27	122.70
1	C	201	ILE	O-C-N	-58.96	28.37	122.70
1	A	82	ILE	O-C-N	-16.84	95.75	122.70
1	C	82	ILE	O-C-N	-16.83	95.78	122.70
1	B	82	ILE	O-C-N	-16.82	95.78	122.70
1	C	338	THR	O-C-N	15.64	147.72	122.70
1	B	338	THR	O-C-N	15.63	147.72	122.70
1	A	338	THR	O-C-N	15.57	147.62	122.70
1	B	300	LEU	O-C-N	14.54	145.97	122.70
1	A	300	LEU	O-C-N	14.50	145.90	122.70
1	C	300	LEU	O-C-N	14.49	145.89	122.70
1	C	307	ASP	C-N-CA	14.02	156.76	121.70
1	B	307	ASP	C-N-CA	14.00	156.70	121.70
1	A	307	ASP	C-N-CA	14.00	156.69	121.70
1	C	129	TYR	O-C-N	12.92	143.38	122.70
1	A	129	TYR	O-C-N	12.87	143.29	122.70
1	B	129	TYR	O-C-N	12.87	143.29	122.70
1	C	307	ASP	O-C-N	-12.85	102.14	122.70
1	A	307	ASP	O-C-N	-12.82	102.19	122.70
1	B	307	ASP	O-C-N	-12.81	102.20	122.70
1	C	93	LEU	N-CA-C	-12.67	76.80	111.00
1	A	93	LEU	N-CA-C	-12.62	76.93	111.00
1	B	93	LEU	N-CA-C	-12.61	76.97	111.00
1	C	201	ILE	CA-C-N	12.54	144.79	117.20
1	B	200	GLY	O-C-N	12.48	142.66	122.70
1	B	201	ILE	CA-C-N	12.44	144.57	117.20
1	B	290	LEU	O-C-N	12.44	142.60	122.70
1	C	200	GLY	O-C-N	12.44	142.60	122.70
1	B	264	SER	O-C-N	12.43	142.59	122.70
1	A	200	GLY	O-C-N	12.42	142.57	122.70
1	C	264	SER	O-C-N	12.39	142.53	122.70
1	A	290	LEU	O-C-N	12.39	142.52	122.70
1	A	201	ILE	CA-C-N	12.39	144.45	117.20
1	C	290	LEU	O-C-N	12.38	142.51	122.70
1	A	264	SER	O-C-N	12.35	142.47	122.70
1	B	339	GLU	C-N-CA	-12.35	90.83	121.70
1	C	339	GLU	C-N-CA	-12.34	90.86	121.70
1	A	339	GLU	C-N-CA	-12.34	90.86	121.70
1	B	330	GLY	O-C-N	-12.14	103.28	122.70
1	C	330	GLY	O-C-N	-12.11	103.33	122.70
1	A	330	GLY	O-C-N	-12.09	103.35	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	299	GLY	O-C-N	11.96	141.83	122.70
1	C	299	GLY	O-C-N	11.96	141.83	122.70
1	A	299	GLY	O-C-N	11.94	141.81	122.70
1	A	297	VAL	C-N-CA	-11.77	92.28	121.70
1	B	297	VAL	C-N-CA	-11.77	92.29	121.70
1	C	297	VAL	C-N-CA	-11.74	92.34	121.70
1	C	338	THR	CA-C-N	-11.54	91.81	117.20
1	B	338	THR	CA-C-N	-11.53	91.84	117.20
1	A	338	THR	CA-C-N	-11.52	91.86	117.20
1	C	264	SER	CA-C-N	-10.45	94.22	117.20
1	B	264	SER	CA-C-N	-10.45	94.22	117.20
1	A	264	SER	CA-C-N	-10.43	94.26	117.20
1	B	300	LEU	CA-C-N	-10.21	94.75	117.20
1	C	300	LEU	CA-C-N	-10.20	94.75	117.20
1	A	300	LEU	CA-C-N	-10.17	94.83	117.20
1	B	200	GLY	CA-C-N	-9.83	95.58	117.20
1	C	200	GLY	CA-C-N	-9.80	95.65	117.20
1	A	200	GLY	CA-C-N	-9.78	95.68	117.20
1	C	313	GLU	O-C-N	9.71	138.23	122.70
1	C	200	GLY	C-N-CA	9.70	145.95	121.70
1	B	313	GLU	O-C-N	9.70	138.22	122.70
1	B	200	GLY	C-N-CA	9.69	145.94	121.70
1	A	200	GLY	C-N-CA	9.69	145.93	121.70
1	A	313	GLU	O-C-N	9.69	138.21	122.70
1	C	129	TYR	CA-C-N	-9.60	96.07	117.20
1	A	279	HIS	O-C-N	-9.60	107.34	122.70
1	B	279	HIS	O-C-N	-9.60	107.34	122.70
1	C	279	HIS	O-C-N	-9.60	107.34	122.70
1	A	129	TYR	CA-C-N	-9.57	96.15	117.20
1	B	129	TYR	CA-C-N	-9.56	96.17	117.20
1	B	140	PRO	N-CD-CG	-9.39	89.11	103.20
1	C	140	PRO	N-CD-CG	-9.38	89.13	103.20
1	A	140	PRO	N-CD-CG	-9.37	89.15	103.20
1	B	100	GLU	O-C-N	-9.36	103.32	121.10
1	C	100	GLU	O-C-N	-9.35	103.34	121.10
1	A	299	GLY	CA-C-N	-9.35	96.64	117.20
1	C	299	GLY	CA-C-N	-9.34	96.64	117.20
1	B	299	GLY	CA-C-N	-9.34	96.65	117.20
1	A	100	GLU	O-C-N	-9.33	103.38	121.10
1	A	335	MET	CA-C-N	-9.31	96.71	117.20
1	C	140	PRO	CA-N-CD	9.31	124.73	111.70
1	C	335	MET	CA-C-N	-9.30	96.73	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	335	MET	CA-C-N	-9.29	96.75	117.20
1	C	202	SER	CB-CA-C	-9.26	92.51	110.10
1	A	202	SER	CB-CA-C	-9.25	92.53	110.10
1	B	202	SER	CB-CA-C	-9.24	92.54	110.10
1	A	140	PRO	CA-N-CD	9.23	124.62	111.70
1	B	140	PRO	CA-N-CD	9.20	124.58	111.70
1	C	264	SER	C-N-CA	-9.13	98.88	121.70
1	B	264	SER	C-N-CA	-9.12	98.89	121.70
1	A	264	SER	C-N-CA	-9.12	98.90	121.70
1	B	278	CYS	CA-CB-SG	-8.81	98.15	114.00
1	A	278	CYS	CA-CB-SG	-8.79	98.17	114.00
1	C	278	CYS	CA-CB-SG	-8.77	98.21	114.00
1	C	328	GLU	O-C-N	8.68	136.59	122.70
1	B	328	GLU	O-C-N	8.68	136.58	122.70
1	A	328	GLU	O-C-N	8.66	136.56	122.70
1	A	279	HIS	CA-C-N	-8.58	98.32	117.20
1	B	279	HIS	CA-C-N	-8.57	98.34	117.20
1	C	279	HIS	CA-C-N	-8.56	98.36	117.20
1	A	275	GLU	N-CA-C	-8.51	88.03	111.00
1	C	275	GLU	N-CA-C	-8.48	88.10	111.00
1	C	325	LYS	C-N-CA	-8.48	100.50	121.70
1	B	275	GLU	N-CA-C	-8.47	88.14	111.00
1	A	325	LYS	C-N-CA	-8.46	100.56	121.70
1	B	90	ILE	O-C-N	-8.46	109.17	122.70
1	A	90	ILE	O-C-N	-8.45	109.18	122.70
1	B	325	LYS	C-N-CA	-8.45	100.57	121.70
1	C	90	ILE	O-C-N	-8.44	109.19	122.70
1	C	314	ALA	N-CA-C	-8.43	88.25	111.00
1	A	314	ALA	N-CA-C	-8.41	88.28	111.00
1	B	314	ALA	N-CA-C	-8.41	88.29	111.00
1	A	175	CYS	CA-CB-SG	-8.29	99.07	114.00
1	C	175	CYS	CA-CB-SG	-8.29	99.08	114.00
1	B	175	CYS	CA-CB-SG	-8.28	99.11	114.00
1	A	175	CYS	C-N-CA	-8.27	101.03	121.70
1	B	175	CYS	C-N-CA	-8.27	101.03	121.70
1	C	175	CYS	C-N-CA	-8.26	101.06	121.70
1	A	307	ASP	CA-C-N	8.15	135.13	117.20
1	B	163	PRO	O-C-N	8.15	135.74	122.70
1	B	307	ASP	CA-C-N	8.15	135.12	117.20
1	C	307	ASP	CA-C-N	8.15	135.12	117.20
1	B	296	PRO	O-C-N	8.14	135.73	122.70
1	A	296	PRO	O-C-N	8.11	135.68	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	163	PRO	O-C-N	8.11	135.68	122.70
1	C	296	PRO	O-C-N	8.11	135.68	122.70
1	A	163	PRO	O-C-N	8.11	135.67	122.70
1	C	350	ARG	NE-CZ-NH2	8.04	124.32	120.30
1	B	350	ARG	NE-CZ-NH2	8.01	124.31	120.30
1	A	350	ARG	NE-CZ-NH2	8.00	124.30	120.30
1	B	291	PHE	CB-CG-CD2	-7.99	115.21	120.80
1	C	291	PHE	CB-CG-CD2	-7.97	115.22	120.80
1	C	76	SER	CB-CA-C	-7.96	94.98	110.10
1	B	203	ASP	O-C-N	-7.95	106.00	121.10
1	A	203	ASP	O-C-N	-7.94	106.02	121.10
1	C	74	ARG	NE-CZ-NH2	7.93	124.26	120.30
1	C	291	PHE	N-CA-CB	-7.91	96.36	110.60
1	C	203	ASP	O-C-N	-7.90	106.09	121.10
1	B	291	PHE	N-CA-CB	-7.90	96.39	110.60
1	A	291	PHE	N-CA-CB	-7.88	96.41	110.60
1	B	330	GLY	CA-C-N	7.83	134.43	117.20
1	C	330	GLY	CA-C-N	7.83	134.43	117.20
1	A	330	GLY	CA-C-N	7.83	134.42	117.20
1	A	291	PHE	CB-CG-CD2	-7.78	115.35	120.80
1	C	140	PRO	N-CA-CB	-7.78	93.96	103.30
1	C	273	GLY	O-C-N	7.71	135.03	122.70
1	A	140	PRO	N-CA-CB	-7.70	94.06	103.30
1	A	273	GLY	O-C-N	7.70	135.03	122.70
1	B	140	PRO	N-CA-CB	-7.70	94.06	103.30
1	B	273	GLY	O-C-N	7.67	134.97	122.70
1	A	273	GLY	C-N-CA	-7.54	102.85	121.70
1	B	273	GLY	C-N-CA	-7.53	102.88	121.70
1	A	84	ARG	NE-CZ-NH2	7.53	124.06	120.30
1	C	273	GLY	C-N-CA	-7.52	102.89	121.70
1	A	261	ARG	NE-CZ-NH2	7.51	124.05	120.30
1	C	57	ARG	NE-CZ-NH2	7.50	124.05	120.30
1	A	135	ARG	NE-CZ-NH2	7.49	124.04	120.30
1	C	135	ARG	NE-CZ-NH2	7.49	124.04	120.30
1	B	84	ARG	NE-CZ-NH2	7.48	124.04	120.30
1	C	241	ARG	NE-CZ-NH2	7.48	124.04	120.30
1	B	135	ARG	NE-CZ-NH2	7.48	124.04	120.30
1	A	241	ARG	NE-CZ-NH2	7.45	124.03	120.30
1	B	261	ARG	NE-CZ-NH2	7.44	124.02	120.30
1	C	63	ALA	O-C-N	7.44	134.61	122.70
1	A	195	ARG	NE-CZ-NH2	7.44	124.02	120.30
1	B	130	ARG	NE-CZ-NH2	7.43	124.01	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	329	ARG	NE-CZ-NH2	7.41	124.00	120.30
1	C	195	ARG	NE-CZ-NH2	7.41	124.00	120.30
1	C	261	ARG	NE-CZ-NH2	7.41	124.00	120.30
1	C	84	ARG	NE-CZ-NH2	7.40	124.00	120.30
1	C	130	ARG	NE-CZ-NH2	7.40	124.00	120.30
1	A	156	ARG	NE-CZ-NH2	7.37	123.99	120.30
1	C	329	ARG	NE-CZ-NH2	7.37	123.99	120.30
1	B	241	ARG	NE-CZ-NH2	7.37	123.98	120.30
1	B	195	ARG	NE-CZ-NH2	7.36	123.98	120.30
1	C	57	ARG	O-C-N	7.34	134.45	122.70
1	A	130	ARG	NE-CZ-NH2	7.34	123.97	120.30
1	A	290	LEU	CA-C-N	-7.32	101.10	117.20
1	B	290	LEU	CA-C-N	-7.31	101.11	117.20
1	C	290	LEU	CA-C-N	-7.31	101.12	117.20
1	A	313	GLU	CA-C-N	-7.30	101.13	117.20
1	B	313	GLU	CA-C-N	-7.30	101.14	117.20
1	B	156	ARG	NE-CZ-NH2	7.29	123.94	120.30
1	B	329	ARG	NE-CZ-NH2	7.27	123.93	120.30
1	C	313	GLU	CA-C-N	-7.27	101.21	117.20
1	C	156	ARG	NE-CZ-NH2	7.26	123.93	120.30
1	C	79	ARG	NE-CZ-NH2	7.25	123.93	120.30
1	A	274	TRP	O-C-N	7.24	134.28	122.70
1	C	274	TRP	O-C-N	7.23	134.27	122.70
1	C	176	VAL	O-C-N	7.22	134.26	122.70
1	B	274	TRP	O-C-N	7.19	134.21	122.70
1	A	176	VAL	O-C-N	7.18	134.20	122.70
1	B	290	LEU	CB-CA-C	-7.15	96.61	110.20
1	B	191	ASP	O-C-N	7.14	134.12	122.70
1	A	290	LEU	CB-CA-C	-7.13	96.66	110.20
1	C	290	LEU	CB-CA-C	-7.12	96.67	110.20
1	B	176	VAL	O-C-N	7.12	134.09	122.70
1	A	191	ASP	O-C-N	7.11	134.07	122.70
1	C	191	ASP	O-C-N	7.03	133.95	122.70
1	B	328	GLU	CA-C-N	-7.03	101.74	117.20
1	A	91	THR	N-CA-CB	7.01	123.63	110.30
1	C	328	GLU	CA-C-N	-7.01	101.78	117.20
1	A	328	GLU	CA-C-N	-7.00	101.80	117.20
1	C	91	THR	N-CA-CB	6.98	123.56	110.30
1	B	91	THR	N-CA-CB	6.97	123.54	110.30
1	C	202	SER	O-C-N	6.95	133.82	122.70
1	A	202	SER	O-C-N	6.94	133.81	122.70
1	B	202	SER	O-C-N	6.94	133.80	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	165	ASP	O-C-N	6.92	133.78	122.70
1	A	165	ASP	O-C-N	6.92	133.77	122.70
1	C	165	ASP	O-C-N	6.91	133.76	122.70
1	A	341	GLN	O-C-N	-6.88	108.03	121.10
1	B	341	GLN	O-C-N	-6.88	108.03	121.10
1	C	341	GLN	O-C-N	-6.85	108.09	121.10
1	A	137	ARG	NE-CZ-NH2	6.84	123.72	120.30
1	C	137	ARG	NE-CZ-NH2	6.84	123.72	120.30
1	A	338	THR	C-N-CA	6.83	138.78	121.70
1	B	137	ARG	NE-CZ-NH2	6.83	123.71	120.30
1	C	338	THR	C-N-CA	6.80	138.71	121.70
1	B	338	THR	C-N-CA	6.80	138.71	121.70
1	A	82	ILE	C-N-CA	6.78	138.66	121.70
1	B	82	ILE	C-N-CA	6.78	138.65	121.70
1	C	82	ILE	C-N-CA	6.77	138.63	121.70
1	C	69	VAL	O-C-N	-6.76	111.89	122.70
1	B	273	GLY	CA-C-N	-6.62	102.64	117.20
1	C	273	GLY	CA-C-N	-6.62	102.64	117.20
1	A	273	GLY	CA-C-N	-6.60	102.68	117.20
1	B	274	TRP	C-N-CA	6.58	138.15	121.70
1	C	313	GLU	C-N-CA	6.56	138.09	121.70
1	A	313	GLU	C-N-CA	6.55	138.08	121.70
1	C	274	TRP	C-N-CA	6.55	138.07	121.70
1	A	274	TRP	C-N-CA	6.54	138.05	121.70
1	B	313	GLU	C-N-CA	6.54	138.06	121.70
1	A	202	SER	N-CA-C	6.52	128.61	111.00
1	B	202	SER	N-CA-C	6.50	128.55	111.00
1	C	202	SER	N-CA-C	6.49	128.53	111.00
1	A	102	LYS	CB-CA-C	6.47	123.35	110.40
1	C	102	LYS	CB-CA-C	6.45	123.31	110.40
1	B	102	LYS	CB-CA-C	6.44	123.28	110.40
1	B	329	ARG	O-C-N	6.42	134.12	123.20
1	A	329	ARG	O-C-N	6.42	134.11	123.20
1	C	199	ASP	O-C-N	6.41	134.09	123.20
1	A	199	ASP	O-C-N	6.41	134.09	123.20
1	B	199	ASP	O-C-N	6.40	134.07	123.20
1	C	329	ARG	O-C-N	6.38	134.04	123.20
1	C	175	CYS	CB-CA-C	-6.34	97.72	110.40
1	A	175	CYS	CB-CA-C	-6.33	97.75	110.40
1	A	326	VAL	O-C-N	6.31	132.79	122.70
1	B	175	CYS	CB-CA-C	-6.29	97.82	110.40
1	B	326	VAL	O-C-N	6.28	132.75	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	326	VAL	O-C-N	6.27	132.74	122.70
1	B	288	LEU	O-C-N	6.26	132.72	122.70
1	C	288	LEU	O-C-N	6.25	132.71	122.70
1	A	288	LEU	O-C-N	6.21	132.64	122.70
1	C	67	ARG	NE-CZ-NH2	6.21	123.40	120.30
1	A	335	MET	CG-SD-CE	6.15	110.04	100.20
1	C	71	THR	N-CA-CB	-6.15	98.61	110.30
1	C	335	MET	CG-SD-CE	6.13	110.00	100.20
1	B	335	MET	CG-SD-CE	6.12	109.99	100.20
1	A	141	MET	CG-SD-CE	6.08	109.94	100.20
1	C	141	MET	CG-SD-CE	6.08	109.92	100.20
1	B	141	MET	CG-SD-CE	6.07	109.92	100.20
1	C	214	MET	CG-SD-CE	6.06	109.89	100.20
1	B	214	MET	CG-SD-CE	6.05	109.88	100.20
1	A	214	MET	CG-SD-CE	6.04	109.86	100.20
1	A	339	GLU	O-C-N	6.01	132.31	122.70
1	A	298	SER	C-N-CA	-6.00	109.69	122.30
1	C	298	SER	C-N-CA	-6.00	109.70	122.30
1	B	288	LEU	CA-C-N	-6.00	104.01	117.20
1	B	298	SER	C-N-CA	-5.99	109.72	122.30
1	C	288	LEU	CA-C-N	-5.98	104.04	117.20
1	B	339	GLU	O-C-N	5.98	132.27	122.70
1	C	339	GLU	O-C-N	5.98	132.26	122.70
1	C	53	GLN	O-C-N	-5.95	113.19	122.70
1	C	274	TRP	CA-C-N	-5.93	104.16	117.20
1	C	76	SER	N-CA-C	5.93	127.00	111.00
1	A	288	LEU	CA-C-N	-5.92	104.17	117.20
1	A	274	TRP	CA-C-N	-5.89	104.23	117.20
1	B	274	TRP	CA-C-N	-5.88	104.26	117.20
1	C	325	LYS	O-C-N	5.87	132.09	122.70
1	B	317	GLY	O-C-N	-5.86	113.32	122.70
1	C	317	GLY	O-C-N	-5.86	113.32	122.70
1	B	314	ALA	CB-CA-C	5.86	118.89	110.10
1	A	314	ALA	CB-CA-C	5.85	118.87	110.10
1	C	162	PRO	O-C-N	-5.85	109.99	121.10
1	A	315	ALA	O-C-N	-5.84	113.35	122.70
1	C	202	SER	CA-C-N	-5.84	104.35	117.20
1	A	325	LYS	O-C-N	5.84	132.04	122.70
1	B	202	SER	CA-C-N	-5.84	104.36	117.20
1	A	317	GLY	O-C-N	-5.83	113.36	122.70
1	A	162	PRO	O-C-N	-5.82	110.03	121.10
1	A	202	SER	CA-C-N	-5.82	104.39	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	63	ALA	CA-C-N	-5.82	104.39	117.20
1	B	315	ALA	O-C-N	-5.82	113.39	122.70
1	C	314	ALA	CB-CA-C	5.82	118.82	110.10
1	B	162	PRO	O-C-N	-5.81	110.06	121.10
1	B	325	LYS	O-C-N	5.81	132.00	122.70
1	C	315	ALA	O-C-N	-5.81	113.41	122.70
1	A	130	ARG	CB-CA-C	-5.76	98.88	110.40
1	B	231	ARG	NE-CZ-NH2	5.76	123.18	120.30
1	C	130	ARG	CB-CA-C	-5.75	98.90	110.40
1	C	231	ARG	NE-CZ-NH2	5.73	123.16	120.30
1	B	130	ARG	CB-CA-C	-5.72	98.95	110.40
1	A	231	ARG	NE-CZ-NH2	5.72	123.16	120.30
1	A	177	SER	CA-C-N	-5.71	104.64	117.20
1	B	177	SER	CA-C-N	-5.71	104.65	117.20
1	C	177	SER	CA-C-N	-5.67	104.73	117.20
1	C	56	THR	CB-CA-C	-5.65	96.35	111.60
1	B	305	ALA	O-C-N	5.63	131.71	122.70
1	C	305	ALA	O-C-N	5.60	131.66	122.70
1	A	305	ALA	O-C-N	5.58	131.64	122.70
1	A	191	ASP	CA-C-N	-5.56	104.97	117.20
1	B	191	ASP	CA-C-N	-5.54	105.00	117.20
1	A	300	LEU	CA-CB-CG	-5.54	102.56	115.30
1	B	300	LEU	CA-CB-CG	-5.53	102.58	115.30
1	C	300	LEU	CA-CB-CG	-5.53	102.58	115.30
1	C	57	ARG	CA-C-N	-5.53	105.04	117.20
1	C	191	ASP	CA-C-N	-5.51	105.09	117.20
1	A	199	ASP	CA-C-N	-5.50	105.20	116.20
1	B	199	ASP	CA-C-N	-5.50	105.20	116.20
1	B	93	LEU	N-CA-CB	-5.48	99.44	110.40
1	A	93	LEU	N-CA-CB	-5.47	99.45	110.40
1	B	163	PRO	CA-C-N	-5.47	105.16	117.20
1	C	199	ASP	CA-C-N	-5.47	105.25	116.20
1	C	176	VAL	CA-C-N	-5.47	105.17	117.20
1	C	163	PRO	CA-C-N	-5.46	105.19	117.20
1	C	93	LEU	N-CA-CB	-5.46	99.48	110.40
1	A	163	PRO	CA-C-N	-5.45	105.21	117.20
1	B	273	GLY	N-CA-C	-5.45	99.48	113.10
1	C	273	GLY	N-CA-C	-5.45	99.48	113.10
1	A	273	GLY	N-CA-C	-5.43	99.53	113.10
1	A	176	VAL	CA-C-N	-5.43	105.26	117.20
1	B	176	VAL	CA-C-N	-5.42	105.27	117.20
1	C	90	ILE	CA-C-N	5.39	129.06	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	90	ILE	CA-C-N	5.39	129.05	117.20
1	C	72	GLN	C-N-CD	-5.38	108.77	120.60
1	B	90	ILE	CA-C-N	5.37	129.00	117.20
1	B	264	SER	CB-CA-C	-5.35	99.94	110.10
1	A	264	SER	CB-CA-C	-5.34	99.95	110.10
1	B	296	PRO	CA-C-N	-5.34	105.45	117.20
1	B	203	ASP	CA-C-N	5.33	132.04	117.10
1	A	296	PRO	CA-C-N	-5.33	105.47	117.20
1	A	203	ASP	CA-C-N	5.33	132.01	117.10
1	C	296	PRO	CA-C-N	-5.32	105.49	117.20
1	A	165	ASP	CA-C-N	-5.32	105.49	117.20
1	C	203	ASP	CA-C-N	5.32	131.98	117.10
1	B	165	ASP	CA-C-N	-5.31	105.52	117.20
1	C	264	SER	CB-CA-C	-5.31	100.02	110.10
1	B	248	ALA	CB-CA-C	-5.30	102.16	110.10
1	C	165	ASP	CA-C-N	-5.29	105.56	117.20
1	B	176	VAL	N-CA-CB	-5.29	99.87	111.50
1	A	248	ALA	CB-CA-C	-5.27	102.20	110.10
1	C	176	VAL	N-CA-CB	-5.27	99.91	111.50
1	A	176	VAL	N-CA-CB	-5.26	99.92	111.50
1	C	248	ALA	CB-CA-C	-5.26	102.21	110.10
1	B	291	PHE	CB-CA-C	5.24	120.89	110.40
1	B	338	THR	CB-CA-C	-5.24	97.45	111.60
1	B	100	GLU	CA-C-N	5.24	131.77	117.10
1	C	338	THR	CB-CA-C	-5.24	97.45	111.60
1	C	291	PHE	CB-CA-C	5.24	120.87	110.40
1	A	338	THR	CB-CA-C	-5.23	97.48	111.60
1	C	175	CYS	O-C-N	-5.22	114.34	122.70
1	B	304	ASP	O-C-N	5.21	131.04	122.70
1	A	291	PHE	CB-CA-C	5.21	120.83	110.40
1	B	175	CYS	O-C-N	-5.21	114.36	122.70
1	C	100	GLU	CA-C-N	5.21	131.69	117.10
1	A	100	GLU	CA-C-N	5.20	131.66	117.10
1	B	129	TYR	C-N-CA	5.19	134.68	121.70
1	A	175	CYS	O-C-N	-5.19	114.40	122.70
1	C	129	TYR	C-N-CA	5.18	134.65	121.70
1	A	129	TYR	C-N-CA	5.17	134.64	121.70
1	A	304	ASP	O-C-N	5.17	130.97	122.70
1	C	304	ASP	O-C-N	5.15	130.94	122.70
1	C	323	GLY	C-N-CA	5.15	134.58	121.70
1	A	176	VAL	CB-CA-C	5.15	121.19	111.40
1	A	290	LEU	C-N-CA	5.15	134.57	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	323	GLY	C-N-CA	5.15	134.56	121.70
1	C	290	LEU	C-N-CA	5.14	134.56	121.70
1	B	176	VAL	CB-CA-C	5.14	121.16	111.40
1	A	329	ARG	CA-C-N	-5.13	105.94	116.20
1	B	323	GLY	C-N-CA	5.12	134.51	121.70
1	B	290	LEU	C-N-CA	5.12	134.49	121.70
1	B	329	ARG	CA-C-N	-5.12	105.97	116.20
1	C	329	ARG	CA-C-N	-5.11	105.97	116.20
1	C	176	VAL	CB-CA-C	5.09	121.08	111.40
1	A	343	LYS	CB-CA-C	-5.08	100.24	110.40
1	B	343	LYS	CB-CA-C	-5.06	100.28	110.40
1	C	343	LYS	CB-CA-C	-5.05	100.29	110.40
1	A	326	VAL	CA-C-N	-5.05	106.09	117.20
1	C	326	VAL	CA-C-N	-5.05	106.09	117.20
1	A	339	GLU	CA-C-N	-5.05	106.10	117.20
1	C	325	LYS	CA-C-N	-5.05	106.10	117.20
1	B	326	VAL	CA-C-N	-5.04	106.11	117.20
1	C	339	GLU	CA-C-N	-5.04	106.12	117.20
1	A	130	ARG	N-CA-C	5.03	124.59	111.00
1	B	290	LEU	N-CA-C	5.02	124.56	111.00
1	B	339	GLU	CA-C-N	-5.02	106.16	117.20
1	C	290	LEU	N-CA-C	5.02	124.55	111.00
1	A	325	LYS	CA-C-N	-5.01	106.17	117.20
1	B	130	ARG	N-CA-C	5.01	124.54	111.00
1	C	130	ARG	N-CA-C	5.01	124.53	111.00
1	B	325	LYS	CA-C-N	-5.01	106.19	117.20
1	A	290	LEU	N-CA-C	5.00	124.51	111.00

There are no chirality outliers.

All (26) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	100	GLU	Mainchain
1	A	177	SER	Mainchain
1	A	201	ILE	Mainchain
1	A	260	PRO	Mainchain
1	A	307	ASP	Mainchain
1	A	330	GLY	Mainchain
1	A	335	MET	Mainchain
1	A	92	THR	Peptide
1	B	100	GLU	Mainchain
1	B	177	SER	Mainchain

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Mol	Chain	Res	Type	Group
1	B	201	ILE	Mainchain
1	B	260	PRO	Mainchain
1	B	307	ASP	Mainchain
1	B	330	GLY	Mainchain
1	B	335	MET	Mainchain
1	B	92	THR	Peptide
1	C	100	GLU	Mainchain
1	C	177	SER	Mainchain
1	C	201	ILE	Mainchain
1	C	260	PRO	Mainchain
1	C	307	ASP	Mainchain
1	C	330	GLY	Mainchain
1	C	335	MET	Mainchain
1	C	59	SER	Mainchain
1	C	69	VAL	Mainchain
1	C	92	THR	Peptide

## 5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2024	0	1964	947	0
1	B	2024	0	1963	941	0
1	C	2236	0	2181	1146	0
All	All	6284	0	6108	3034	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 245.

All (3034) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:138:TYR:CB	1:A:184:PHE:CE1	1.75	1.66
1:C:138:TYR:CB	1:C:184:PHE:CE1	1.75	1.65
1:C:138:TYR:HB2	1:C:184:PHE:CZ	1.15	1.64
1:A:138:TYR:HB2	1:A:184:PHE:CZ	1.15	1.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:101:PRO:CD	1:B:166:LEU:CD1	1.75	1.64
1:B:138:TYR:CB	1:B:184:PHE:CE1	1.75	1.64
1:C:101:PRO:CD	1:C:166:LEU:HD11	1.21	1.63
1:A:101:PRO:CD	1:A:166:LEU:CD1	1.75	1.63
1:B:138:TYR:HB2	1:B:184:PHE:CZ	1.15	1.62
1:B:101:PRO:CD	1:B:166:LEU:HD11	1.22	1.57
1:A:101:PRO:CD	1:A:166:LEU:HD11	1.21	1.56
1:B:130:ARG:CD	1:B:237:GLN:CB	1.82	1.56
1:A:130:ARG:CD	1:A:237:GLN:CB	1.81	1.54
1:C:101:PRO:CD	1:C:166:LEU:CD1	1.75	1.53
1:C:130:ARG:CD	1:C:237:GLN:CB	1.82	1.53
1:C:75:VAL:CA	1:C:75:VAL:C	1.76	1.53
1:A:248:ALA:CB	1:A:264:SER:C	1.75	1.53
1:A:278:CYS:H	1:A:334:LYS:CD	1.21	1.53
1:C:278:CYS:H	1:C:334:LYS:CD	1.21	1.52
1:C:159:ALA:HB1	1:C:328:GLU:CB	1.32	1.52
1:C:76:SER:CA	1:C:76:SER:C	1.75	1.52
1:B:278:CYS:H	1:B:334:LYS:CD	1.21	1.51
1:A:101:PRO:HD3	1:A:166:LEU:CD1	1.34	1.51
1:C:75:VAL:CA	1:C:75:VAL:N	1.68	1.51
1:C:101:PRO:HD3	1:C:166:LEU:CD1	1.34	1.50
1:C:76:SER:N	1:C:76:SER:CA	1.76	1.49
1:C:185:ILE:HD12	1:C:186:LEU:N	1.18	1.49
1:C:153:ALA:CB	1:C:174:GLY:HA3	1.43	1.48
1:A:153:ALA:CB	1:A:174:GLY:HA3	1.43	1.47
1:C:200:GLY:N	1:C:265:TRP:CD1	1.82	1.47
1:A:130:ARG:CD	1:A:237:GLN:HB2	0.98	1.46
1:C:80:ASP:HA	1:C:241:ARG:NH2	1.24	1.46
1:B:153:ALA:CB	1:B:174:GLY:HA3	1.43	1.45
1:A:121:LYS:NZ	1:A:121:LYS:CE	1.79	1.45
1:C:130:ARG:CD	1:C:237:GLN:HB2	0.98	1.45
1:C:207:VAL:CG1	1:C:329:ARG:CZ	1.93	1.45
1:B:130:ARG:CD	1:B:237:GLN:HB2	0.98	1.45
1:B:264:SER:C	1:B:265:TRP:N	1.68	1.45
1:C:291:PHE:C	1:C:292:TYR:N	1.71	1.44
1:C:339:GLU:C	1:C:340:GLU:N	1.68	1.44
1:B:101:PRO:HD3	1:B:166:LEU:CD1	1.34	1.43
1:C:134:LEU:CA	1:C:233:GLU:O	1.66	1.43
1:C:207:VAL:N	1:C:329:ARG:HH22	0.96	1.43
1:B:121:LYS:NZ	1:B:121:LYS:CE	1.79	1.43
1:A:264:SER:C	1:A:265:TRP:N	1.68	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:269:LYS:O	1:A:277:ASP:CB	1.67	1.43
1:A:296:PRO:CG	1:A:337:THR:HG22	0.96	1.43
1:C:264:SER:C	1:C:265:TRP:N	1.68	1.43
1:C:207:VAL:HG12	1:C:329:ARG:NH2	1.27	1.43
1:C:296:PRO:CG	1:C:337:THR:HG22	0.96	1.43
1:A:339:GLU:C	1:A:340:GLU:N	1.68	1.42
1:C:207:VAL:H	1:C:329:ARG:NH2	1.11	1.42
1:C:121:LYS:NZ	1:C:121:LYS:CE	1.79	1.42
1:C:207:VAL:HG12	1:C:329:ARG:CZ	0.96	1.42
1:B:185:ILE:HD12	1:B:186:LEU:N	1.18	1.42
1:B:269:LYS:O	1:B:277:ASP:CB	1.67	1.42
1:C:197:VAL:CG2	1:C:350:ARG:HH22	1.30	1.42
1:B:296:PRO:CG	1:B:337:THR:HG22	0.96	1.42
1:C:269:LYS:O	1:C:277:ASP:CB	1.67	1.41
1:B:185:ILE:CD1	1:B:186:LEU:H	1.32	1.41
1:C:203:ASP:OD1	1:C:205:LYS:CD	1.68	1.41
1:B:339:GLU:C	1:B:340:GLU:N	1.68	1.41
1:A:134:LEU:CA	1:A:233:GLU:O	1.66	1.41
1:A:203:ASP:OD1	1:A:205:LYS:CD	1.68	1.40
1:C:207:VAL:CG1	1:C:329:ARG:NH2	1.81	1.40
1:B:279:HIS:C	1:B:280:PHE:N	1.74	1.40
1:A:291:PHE:C	1:A:292:TYR:N	1.71	1.40
1:B:149:LYS:CE	1:B:149:LYS:CD	2.00	1.39
1:B:291:PHE:C	1:B:292:TYR:N	1.71	1.39
1:A:185:ILE:HD12	1:A:186:LEU:N	1.18	1.39
1:C:185:ILE:CD1	1:C:186:LEU:H	1.32	1.39
1:A:130:ARG:HD2	1:A:237:GLN:CB	1.47	1.39
1:A:149:LYS:CE	1:A:149:LYS:CD	1.99	1.39
1:C:279:HIS:C	1:C:280:PHE:N	1.74	1.39
1:B:115:THR:O	1:B:116:PHE:CD1	1.75	1.39
1:B:350:ARG:O	1:B:351:ILE:CG2	1.71	1.39
1:A:185:ILE:CD1	1:A:186:LEU:H	1.32	1.39
1:C:149:LYS:CE	1:C:149:LYS:CD	1.99	1.39
1:A:115:THR:O	1:A:116:PHE:CD1	1.76	1.38
1:B:138:TYR:CB	1:B:184:PHE:CZ	1.96	1.38
1:B:203:ASP:OD1	1:B:205:LYS:CD	1.68	1.38
1:B:134:LEU:CA	1:B:233:GLU:O	1.66	1.38
1:C:350:ARG:O	1:C:351:ILE:CG2	1.71	1.38
1:A:248:ALA:HB3	1:A:264:SER:C	1.01	1.37
1:B:149:LYS:CD	1:B:170:TYR:OH	1.72	1.37
1:A:149:LYS:CD	1:A:170:TYR:OH	1.72	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:204:PRO:HG2	1:C:328:GLU:CG	1.54	1.37
1:C:115:THR:O	1:C:116:PHE:CD1	1.75	1.37
1:C:149:LYS:CD	1:C:170:TYR:OH	1.72	1.36
1:A:138:TYR:CG	1:A:184:PHE:CE1	2.12	1.36
1:B:130:ARG:HD3	1:B:237:GLN:CB	1.46	1.36
1:A:279:HIS:C	1:A:280:PHE:N	1.74	1.36
1:C:138:TYR:CG	1:C:184:PHE:CE1	2.12	1.36
1:A:350:ARG:O	1:A:351:ILE:CG2	1.71	1.36
1:C:165:ASP:O	1:C:168:SER:HB2	1.25	1.35
1:C:138:TYR:CB	1:C:184:PHE:CZ	1.96	1.35
1:C:159:ALA:CB	1:C:328:GLU:HB2	1.54	1.35
1:C:296:PRO:HG2	1:C:337:THR:CG2	0.89	1.34
1:B:138:TYR:CG	1:B:184:PHE:CE1	2.12	1.34
1:B:278:CYS:N	1:B:334:LYS:CD	1.87	1.34
1:A:296:PRO:HG2	1:A:337:THR:CG2	0.89	1.34
1:B:296:PRO:HG2	1:B:337:THR:CG2	0.88	1.34
1:A:82:ILE:C	1:A:83:THR:N	1.81	1.34
1:C:278:CYS:N	1:C:334:LYS:CD	1.87	1.34
1:C:82:ILE:C	1:C:83:THR:N	1.81	1.34
1:B:82:ILE:C	1:B:83:THR:N	1.81	1.34
1:B:291:PHE:HA	1:B:345:LYS:O	1.23	1.34
1:A:309:SER:O	1:A:322:ALA:HA	1.19	1.34
1:C:153:ALA:HB1	1:C:174:GLY:CA	1.57	1.34
1:B:153:ALA:HB1	1:B:174:GLY:CA	1.57	1.34
1:B:278:CYS:H	1:B:334:LYS:CE	1.41	1.34
1:A:153:ALA:HB1	1:A:174:GLY:CA	1.57	1.33
1:C:138:TYR:CD2	1:C:184:PHE:HE1	1.46	1.33
1:A:278:CYS:N	1:A:334:LYS:CD	1.87	1.33
1:C:278:CYS:H	1:C:334:LYS:CE	1.41	1.33
1:A:278:CYS:H	1:A:334:LYS:CE	1.41	1.33
1:C:130:ARG:HD3	1:C:237:GLN:CB	1.46	1.33
1:B:138:TYR:CD2	1:B:184:PHE:HE1	1.46	1.32
1:B:130:ARG:HD2	1:B:237:GLN:CB	1.47	1.32
1:A:138:TYR:CD2	1:A:184:PHE:HE1	1.46	1.32
1:A:130:ARG:HD3	1:A:237:GLN:CB	1.46	1.32
1:C:265:TRP:CZ3	1:C:348:ALA:O	1.82	1.32
1:A:133:SER:O	1:A:234:TYR:HA	1.28	1.32
1:A:198:ALA:HB1	1:A:200:GLY:O	1.17	1.32
1:A:304:ASP:O	1:A:331:GLN:HB3	1.14	1.32
1:C:130:ARG:HD2	1:C:237:GLN:CB	1.47	1.32
1:A:265:TRP:CZ3	1:A:348:ALA:O	1.82	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:165:ASP:O	1:B:168:SER:HB2	1.26	1.31
1:C:149:LYS:HG2	1:C:177:SER:OG	1.22	1.31
1:B:265:TRP:CZ3	1:B:348:ALA:O	1.82	1.31
1:A:165:ASP:O	1:A:168:SER:HB2	1.26	1.30
1:C:291:PHE:CA	1:C:345:LYS:O	1.78	1.30
1:C:71:THR:CG2	1:C:87:SER:OG	1.78	1.30
1:A:138:TYR:CB	1:A:184:PHE:CZ	1.96	1.30
1:C:159:ALA:HB1	1:C:328:GLU:CG	1.60	1.30
1:A:291:PHE:HA	1:A:345:LYS:O	1.22	1.30
1:C:204:PRO:CG	1:C:328:GLU:HG2	1.59	1.29
1:A:248:ALA:CB	1:A:264:SER:OG	1.81	1.29
1:B:291:PHE:CA	1:B:345:LYS:O	1.79	1.29
1:C:154:PHE:CD1	1:C:155:ASP:N	2.01	1.29
1:A:313:GLU:HG3	1:A:318:SER:CB	1.63	1.29
1:C:309:SER:O	1:C:322:ALA:HA	1.19	1.29
1:B:88:GLU:O	1:B:231:ARG:HB2	1.19	1.29
1:A:291:PHE:CA	1:A:345:LYS:O	1.78	1.29
1:B:327:ALA:HB3	1:B:331:GLN:CD	1.53	1.29
1:A:333:VAL:O	1:A:334:LYS:HD3	1.30	1.29
1:C:313:GLU:HG3	1:C:318:SER:CB	1.63	1.28
1:A:119:LEU:CD2	1:A:234:TYR:OH	1.82	1.28
1:A:154:PHE:CD1	1:A:155:ASP:N	2.01	1.28
1:C:88:GLU:O	1:C:231:ARG:HB2	1.19	1.28
1:B:154:PHE:CD1	1:B:155:ASP:N	2.01	1.28
1:B:133:SER:OG	1:B:133:SER:CB	1.81	1.28
1:B:149:LYS:HG2	1:B:177:SER:OG	1.23	1.28
1:B:105:THR:OG1	1:B:211:LYS:CD	1.82	1.28
1:A:154:PHE:HD1	1:A:155:ASP:N	1.32	1.28
1:C:291:PHE:HA	1:C:345:LYS:O	1.23	1.27
1:B:119:LEU:CD2	1:B:234:TYR:OH	1.82	1.27
1:C:78:ALA:O	1:C:80:ASP:N	1.63	1.27
1:C:133:SER:O	1:C:234:TYR:HA	1.28	1.27
1:C:304:ASP:O	1:C:331:GLN:HB3	1.15	1.27
1:B:198:ALA:HB1	1:B:200:GLY:O	1.17	1.27
1:C:105:THR:OG1	1:C:211:LYS:CD	1.82	1.27
1:A:133:SER:CB	1:A:133:SER:OG	1.81	1.27
1:C:159:ALA:CB	1:C:328:GLU:CB	2.08	1.27
1:C:198:ALA:HB1	1:C:200:GLY:O	1.16	1.27
1:A:105:THR:OG1	1:A:211:LYS:CD	1.82	1.26
1:C:133:SER:CB	1:C:133:SER:OG	1.81	1.26
1:A:149:LYS:HG2	1:A:177:SER:OG	1.23	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:119:LEU:CD2	1:C:234:TYR:OH	1.82	1.26
1:B:313:GLU:HG3	1:B:318:SER:CB	1.63	1.26
1:B:309:SER:O	1:B:322:ALA:HA	1.19	1.26
1:A:156:ARG:O	1:A:210:GLY:HA3	1.36	1.25
1:C:327:ALA:HB3	1:C:331:GLN:CD	1.53	1.25
1:C:138:TYR:HB3	1:C:184:PHE:CE1	1.51	1.25
1:B:133:SER:O	1:B:234:TYR:HA	1.28	1.25
1:C:80:ASP:CA	1:C:241:ARG:HH22	1.49	1.25
1:A:327:ALA:HB3	1:A:331:GLN:CD	1.53	1.25
1:C:179:VAL:HG11	1:C:181:TRP:CD1	1.71	1.25
1:A:138:TYR:HB3	1:A:184:PHE:CE1	1.51	1.25
1:A:88:GLU:O	1:A:231:ARG:HB2	1.18	1.25
1:C:201:ILE:HB	1:C:265:TRP:O	1.12	1.25
1:B:154:PHE:HD1	1:B:155:ASP:N	1.32	1.25
1:B:288:LEU:HD11	1:B:290:LEU:CD2	1.67	1.25
1:C:156:ARG:O	1:C:210:GLY:HA3	1.37	1.24
1:B:328:GLU:O	1:B:329:ARG:O	1.55	1.24
1:A:248:ALA:HB1	1:A:264:SER:OG	1.20	1.24
1:A:179:VAL:HG11	1:A:181:TRP:CD1	1.71	1.24
1:A:96:ASN:O	1:A:98:ASP:N	1.70	1.24
1:C:159:ALA:CB	1:C:328:GLU:CG	2.15	1.24
1:C:333:VAL:O	1:C:334:LYS:HD3	1.30	1.24
1:C:138:TYR:OH	1:C:227:LEU:HB3	1.38	1.24
1:B:304:ASP:O	1:B:331:GLN:HB3	1.15	1.23
1:B:138:TYR:HB3	1:B:184:PHE:CE1	1.51	1.23
1:B:179:VAL:HG11	1:B:181:TRP:CD1	1.71	1.23
1:B:156:ARG:O	1:B:210:GLY:HA3	1.36	1.23
1:B:293:GLU:O	1:B:317:GLY:N	1.72	1.23
1:B:333:VAL:O	1:B:334:LYS:HD3	1.30	1.23
1:A:248:ALA:CB	1:A:264:SER:O	1.87	1.23
1:A:288:LEU:HD11	1:A:290:LEU:CD2	1.66	1.23
1:C:96:ASN:O	1:C:98:ASP:N	1.70	1.22
1:C:154:PHE:HD1	1:C:155:ASP:N	1.32	1.22
1:C:197:VAL:CG2	1:C:350:ARG:NH2	2.01	1.22
1:C:90:ILE:HD11	1:C:232:VAL:CG2	1.69	1.22
1:B:96:ASN:O	1:B:98:ASP:N	1.70	1.22
1:C:288:LEU:HD11	1:C:290:LEU:CD2	1.66	1.22
1:C:293:GLU:O	1:C:317:GLY:N	1.72	1.22
1:C:101:PRO:O	1:C:102:LYS:CG	1.88	1.22
1:A:293:GLU:O	1:A:317:GLY:N	1.72	1.22
1:C:200:GLY:C	1:C:282:GLY:CA	2.08	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:328:GLU:O	1:C:329:ARG:O	1.55	1.21
1:C:149:LYS:HB3	1:C:217:TYR:CE1	1.75	1.21
1:A:328:GLU:O	1:A:329:ARG:O	1.55	1.21
1:C:201:ILE:CB	1:C:265:TRP:O	1.87	1.21
1:C:207:VAL:HG12	1:C:329:ARG:NE	1.52	1.21
1:A:327:ALA:CB	1:A:331:GLN:OE1	1.88	1.21
1:A:90:ILE:HD11	1:A:232:VAL:CG2	1.69	1.20
1:B:294:LYS:O	1:B:296:PRO:HD3	1.04	1.20
1:C:327:ALA:CB	1:C:331:GLN:OE1	1.88	1.20
1:B:327:ALA:CB	1:B:331:GLN:OE1	1.88	1.20
1:A:294:LYS:O	1:A:296:PRO:HD3	1.04	1.20
1:B:90:ILE:HD11	1:B:232:VAL:CG2	1.69	1.20
1:C:200:GLY:HA2	1:C:265:TRP:CB	1.70	1.20
1:C:200:GLY:CA	1:C:265:TRP:CD1	2.25	1.19
1:A:149:LYS:HB3	1:A:217:TYR:CE1	1.75	1.19
1:C:204:PRO:HG3	1:C:328:GLU:C	1.61	1.19
1:B:149:LYS:HB3	1:B:217:TYR:CE1	1.75	1.19
1:B:101:PRO:O	1:B:102:LYS:CG	1.88	1.19
1:C:294:LYS:O	1:C:296:PRO:HD3	1.04	1.19
1:A:101:PRO:O	1:A:102:LYS:CG	1.88	1.19
1:A:101:PRO:C	1:A:102:LYS:HG3	1.57	1.18
1:C:204:PRO:CG	1:C:329:ARG:N	2.06	1.18
1:B:164:ASN:HD22	1:B:164:ASN:N	1.19	1.18
1:C:138:TYR:HB3	1:C:184:PHE:CD1	1.78	1.18
1:B:259:GLY:C	1:B:260:PRO:N	1.97	1.18
1:B:101:PRO:C	1:B:102:LYS:HG3	1.57	1.18
1:B:326:VAL:CG1	1:B:327:ALA:H	1.54	1.18
1:A:295:ALA:N	1:A:316:ALA:HA	1.51	1.18
1:C:138:TYR:CG	1:C:184:PHE:HE1	1.56	1.17
1:C:259:GLY:C	1:C:260:PRO:N	1.97	1.17
1:B:138:TYR:OH	1:B:227:LEU:HB3	1.38	1.17
1:A:138:TYR:OH	1:A:227:LEU:HB3	1.38	1.17
1:A:326:VAL:CG1	1:A:327:ALA:H	1.54	1.17
1:C:295:ALA:N	1:C:316:ALA:HA	1.51	1.17
1:B:138:TYR:HB3	1:B:184:PHE:CD1	1.78	1.17
1:A:101:PRO:HD2	1:A:166:LEU:CD1	1.68	1.17
1:A:138:TYR:HB3	1:A:184:PHE:CD1	1.78	1.17
1:A:149:LYS:HD3	1:A:170:TYR:HH	1.05	1.17
1:A:248:ALA:CB	1:A:265:TRP:HA	1.73	1.17
1:A:259:GLY:C	1:A:260:PRO:N	1.97	1.16
1:A:326:VAL:HG12	1:A:327:ALA:N	1.60	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:88:GLU:O	1:C:231:ARG:CB	1.93	1.15
1:B:309:SER:O	1:B:322:ALA:CA	1.94	1.15
1:B:88:GLU:O	1:B:231:ARG:CB	1.93	1.15
1:C:204:PRO:HG3	1:C:329:ARG:N	1.13	1.15
1:A:179:VAL:HG11	1:A:181:TRP:NE1	1.61	1.15
1:A:88:GLU:O	1:A:231:ARG:CB	1.93	1.15
1:C:179:VAL:HG11	1:C:181:TRP:NE1	1.61	1.15
1:C:105:THR:OG1	1:C:211:LYS:HD3	0.98	1.15
1:C:138:TYR:CD2	1:C:184:PHE:CE1	2.34	1.15
1:B:138:TYR:CD2	1:B:184:PHE:CE1	2.34	1.15
1:A:313:GLU:HG3	1:A:318:SER:HB2	1.28	1.15
1:B:116:PHE:O	1:B:120:ILE:HG21	1.46	1.14
1:B:151:ALA:HA	1:B:177:SER:HB2	1.28	1.14
1:A:116:PHE:O	1:A:120:ILE:HG21	1.46	1.14
1:A:277:ASP:CA	1:A:334:LYS:HD2	1.77	1.14
1:A:294:LYS:O	1:A:296:PRO:CD	1.96	1.14
1:C:101:PRO:CD	1:C:166:LEU:HD12	1.73	1.14
1:C:204:PRO:CG	1:C:328:GLU:CG	2.20	1.14
1:C:204:PRO:CB	1:C:328:GLU:HG3	1.77	1.14
1:B:277:ASP:CA	1:B:334:LYS:HD2	1.77	1.14
1:B:294:LYS:O	1:B:296:PRO:CD	1.96	1.14
1:A:105:THR:OG1	1:A:211:LYS:HD3	0.98	1.14
1:A:309:SER:O	1:A:322:ALA:CA	1.94	1.14
1:A:101:PRO:HG3	1:A:217:TYR:CE2	1.83	1.14
1:C:86:GLY:HA2	1:C:234:TYR:CD1	1.83	1.14
1:B:112:GLU:HG3	1:B:329:ARG:NH2	1.61	1.14
1:B:86:GLY:HA2	1:B:234:TYR:CD1	1.83	1.14
1:C:294:LYS:O	1:C:296:PRO:CD	1.96	1.14
1:C:297:VAL:HB	1:C:336:VAL:O	1.47	1.14
1:C:277:ASP:CA	1:C:334:LYS:HD2	1.77	1.13
1:B:179:VAL:HG11	1:B:181:TRP:NE1	1.61	1.13
1:B:105:THR:OG1	1:B:211:LYS:HD3	0.98	1.13
1:A:297:VAL:HB	1:A:336:VAL:HG13	1.26	1.13
1:C:116:PHE:O	1:C:120:ILE:HG21	1.46	1.13
1:A:265:TRP:HZ3	1:A:348:ALA:O	1.20	1.13
1:C:101:PRO:HG3	1:C:217:TYR:CE2	1.83	1.12
1:A:126:TYR:CA	1:A:242:THR:HG22	1.80	1.12
1:C:309:SER:O	1:C:322:ALA:CA	1.94	1.12
1:C:101:PRO:C	1:C:102:LYS:HG3	1.57	1.12
1:C:249:GLN:NE2	1:C:265:TRP:CE3	2.15	1.12
1:A:248:ALA:HB2	1:A:265:TRP:HA	1.31	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:297:VAL:HB	1:B:336:VAL:HG13	1.27	1.12
1:A:119:LEU:HD22	1:A:234:TYR:CZ	1.85	1.12
1:A:86:GLY:HA2	1:A:234:TYR:CD1	1.83	1.12
1:C:164:ASN:N	1:C:164:ASN:HD22	1.19	1.12
1:B:101:PRO:O	1:B:102:LYS:HG3	0.95	1.12
1:B:101:PRO:HG3	1:B:217:TYR:CE2	1.83	1.12
1:B:326:VAL:HG12	1:B:327:ALA:N	1.60	1.12
1:B:301:GLU:O	1:B:333:VAL:HG13	1.50	1.12
1:C:120:ILE:HD11	1:C:351:ILE:C	1.69	1.12
1:B:126:TYR:CA	1:B:242:THR:HG22	1.80	1.12
1:A:248:ALA:HB3	1:A:264:SER:CA	1.79	1.12
1:B:297:VAL:HB	1:B:336:VAL:O	1.47	1.12
1:C:326:VAL:HG12	1:C:327:ALA:N	1.60	1.12
1:C:301:GLU:O	1:C:333:VAL:HG13	1.50	1.12
1:C:265:TRP:HZ3	1:C:348:ALA:O	1.20	1.12
1:B:295:ALA:H	1:B:316:ALA:CA	1.63	1.11
1:B:295:ALA:N	1:B:316:ALA:HA	1.51	1.11
1:C:198:ALA:CB	1:C:200:GLY:O	1.96	1.11
1:A:101:PRO:O	1:A:102:LYS:HG3	0.95	1.11
1:C:126:TYR:CA	1:C:242:THR:HG22	1.80	1.11
1:B:119:LEU:HD22	1:B:234:TYR:CZ	1.85	1.11
1:B:149:LYS:HD2	1:B:170:TYR:OH	1.44	1.11
1:C:248:ALA:HB1	1:C:287:SER:O	1.48	1.11
1:A:198:ALA:CB	1:A:200:GLY:O	1.97	1.11
1:C:295:ALA:H	1:C:316:ALA:CA	1.63	1.11
1:A:151:ALA:HA	1:A:177:SER:HB2	1.28	1.11
1:C:151:ALA:HA	1:C:177:SER:HB2	1.28	1.11
1:B:164:ASN:ND2	1:B:164:ASN:N	1.88	1.11
1:A:295:ALA:H	1:A:316:ALA:CA	1.63	1.11
1:C:313:GLU:HG3	1:C:318:SER:HB2	1.28	1.10
1:C:80:ASP:CA	1:C:241:ARG:NH2	2.10	1.10
1:A:297:VAL:HB	1:A:336:VAL:O	1.47	1.10
1:C:101:PRO:O	1:C:102:LYS:HG3	0.95	1.10
1:B:198:ALA:CB	1:B:200:GLY:O	1.97	1.10
1:A:301:GLU:O	1:A:333:VAL:HG13	1.50	1.10
1:C:119:LEU:HD22	1:C:234:TYR:CZ	1.85	1.10
1:C:116:PHE:O	1:C:120:ILE:CG2	2.00	1.10
1:C:326:VAL:CG1	1:C:327:ALA:H	1.54	1.10
1:A:164:ASN:N	1:A:164:ASN:ND2	1.88	1.10
1:C:101:PRO:HD2	1:C:166:LEU:CD1	1.68	1.10
1:A:248:ALA:HB3	1:A:264:SER:O	1.45	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:315:ALA:CB	1:A:318:SER:HB3	1.82	1.10
1:A:116:PHE:O	1:A:120:ILE:CG2	2.00	1.10
1:C:164:ASN:N	1:C:164:ASN:ND2	1.88	1.10
1:C:199:ASP:C	1:C:265:TRP:CD1	2.25	1.10
1:C:315:ALA:CB	1:C:318:SER:HB3	1.82	1.10
1:B:313:GLU:HG3	1:B:318:SER:HB2	1.28	1.10
1:B:116:PHE:O	1:B:120:ILE:CG2	2.00	1.09
1:A:288:LEU:HD11	1:A:290:LEU:HD21	1.31	1.09
1:B:138:TYR:CG	1:B:184:PHE:HE1	1.56	1.09
1:A:86:GLY:CA	1:A:234:TYR:CD1	2.34	1.09
1:C:249:GLN:HB3	1:C:265:TRP:HZ3	1.17	1.09
1:B:101:PRO:CD	1:B:166:LEU:HD12	1.73	1.09
1:B:86:GLY:CA	1:B:234:TYR:CD1	2.34	1.09
1:A:101:PRO:CD	1:A:166:LEU:HD12	1.73	1.09
1:A:138:TYR:CG	1:A:184:PHE:HE1	1.56	1.09
1:C:160:LYS:HG3	1:C:161:PRO:HD2	1.11	1.09
1:C:86:GLY:CA	1:C:234:TYR:CD1	2.34	1.09
1:C:204:PRO:HB2	1:C:328:GLU:HG3	1.15	1.09
1:A:149:LYS:CG	1:A:177:SER:OG	2.01	1.09
1:C:179:VAL:CG2	1:C:180:PRO:HD2	1.83	1.09
1:B:149:LYS:CG	1:B:177:SER:OG	2.01	1.09
1:B:315:ALA:HB1	1:B:318:SER:N	1.67	1.09
1:B:101:PRO:HD2	1:B:166:LEU:CD1	1.68	1.09
1:A:149:LYS:HD2	1:A:170:TYR:OH	1.44	1.08
1:A:138:TYR:CD2	1:A:184:PHE:CE1	2.34	1.08
1:A:315:ALA:HB1	1:A:318:SER:N	1.67	1.08
1:C:134:LEU:HD21	1:C:188:VAL:HG21	1.08	1.08
1:C:315:ALA:HB1	1:C:318:SER:N	1.67	1.08
1:B:179:VAL:CG2	1:B:180:PRO:HD2	1.83	1.08
1:B:315:ALA:CB	1:B:318:SER:HB3	1.82	1.08
1:B:248:ALA:O	1:B:263:VAL:HB	1.54	1.08
1:C:297:VAL:HB	1:C:336:VAL:HG13	1.27	1.08
1:A:179:VAL:CG2	1:A:180:PRO:HD2	1.83	1.08
1:C:130:ARG:HD3	1:C:237:GLN:CA	1.83	1.08
1:C:71:THR:HG21	1:C:87:SER:OG	0.92	1.08
1:B:278:CYS:HB3	1:B:333:VAL:O	1.52	1.08
1:C:244:SER:O	1:C:245:THR:HG22	1.54	1.08
1:C:197:VAL:HG23	1:C:350:ARG:HH22	1.17	1.08
1:B:278:CYS:N	1:B:334:LYS:HD2	1.68	1.08
1:B:255:GLY:HA2	1:B:342:PRO:HB3	1.33	1.08
1:A:130:ARG:HD3	1:A:237:GLN:CA	1.84	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:200:GLY:HA2	1:C:265:TRP:CG	1.88	1.07
1:C:327:ALA:N	1:C:331:GLN:OE1	1.87	1.07
1:A:125:GLN:HA	1:A:243:GLY:HA2	1.37	1.07
1:C:149:LYS:CG	1:C:177:SER:OG	2.01	1.07
1:C:130:ARG:HB2	1:C:237:GLN:HB3	1.07	1.07
1:B:249:GLN:HB3	1:B:265:TRP:HZ3	1.17	1.07
1:C:69:VAL:HG12	1:C:70:SER:H	1.09	1.07
1:A:244:SER:O	1:A:245:THR:HG22	1.54	1.07
1:C:149:LYS:HD3	1:C:170:TYR:OH	1.43	1.07
1:C:200:GLY:C	1:C:282:GLY:HA3	1.51	1.07
1:C:172:ILE:O	1:C:173:GLU:O	1.72	1.07
1:A:288:LEU:HD11	1:A:290:LEU:CG	1.84	1.07
1:C:296:PRO:CG	1:C:337:THR:CG2	1.76	1.07
1:B:297:VAL:CB	1:B:336:VAL:HG13	1.41	1.07
1:A:166:LEU:O	1:A:169:LEU:N	1.88	1.07
1:A:86:GLY:HA2	1:A:234:TYR:CE1	1.90	1.07
1:B:277:ASP:HA	1:B:334:LYS:HD2	1.34	1.07
1:B:166:LEU:O	1:B:169:LEU:N	1.88	1.07
1:B:149:LYS:HD3	1:B:170:TYR:HH	0.94	1.07
1:B:125:GLN:HA	1:B:243:GLY:HA2	1.37	1.07
1:B:327:ALA:N	1:B:331:GLN:OE1	1.87	1.07
1:C:149:LYS:HD2	1:C:170:TYR:OH	1.44	1.06
1:C:152:LEU:HD22	1:C:186:LEU:CD1	1.85	1.06
1:B:156:ARG:O	1:B:210:GLY:CA	2.03	1.06
1:B:244:SER:O	1:B:245:THR:HG22	1.54	1.06
1:A:327:ALA:N	1:A:331:GLN:OE1	1.87	1.06
1:A:156:ARG:O	1:A:210:GLY:CA	2.03	1.06
1:C:149:LYS:HD3	1:C:170:TYR:HH	1.07	1.06
1:C:288:LEU:HD11	1:C:290:LEU:CG	1.84	1.06
1:B:86:GLY:HA2	1:B:234:TYR:CE1	1.90	1.06
1:B:288:LEU:HD11	1:B:290:LEU:CG	1.84	1.06
1:B:288:LEU:HD11	1:B:290:LEU:HD21	1.31	1.06
1:C:278:CYS:HB3	1:C:333:VAL:O	1.53	1.06
1:C:120:ILE:CD1	1:C:351:ILE:C	2.24	1.06
1:C:201:ILE:HG22	1:C:265:TRP:HA	1.38	1.06
1:B:252:ASP:OD2	1:B:345:LYS:HE2	1.55	1.06
1:B:291:PHE:CB	1:B:345:LYS:O	2.03	1.06
1:A:315:ALA:HB1	1:A:318:SER:H	1.16	1.06
1:A:252:ASP:OD2	1:A:345:LYS:HE2	1.55	1.06
1:A:339:GLU:C	1:A:340:GLU:CA	2.24	1.06
1:C:156:ARG:O	1:C:210:GLY:CA	2.03	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:278:CYS:N	1:C:334:LYS:HD2	1.68	1.06
1:B:86:GLY:CA	1:B:234:TYR:HD1	1.68	1.06
1:A:304:ASP:O	1:A:331:GLN:CB	2.04	1.06
1:B:339:GLU:C	1:B:340:GLU:CA	2.24	1.06
1:C:69:VAL:HG12	1:C:70:SER:N	1.66	1.06
1:A:160:LYS:HG3	1:A:161:PRO:HD2	1.11	1.06
1:A:134:LEU:HD21	1:A:188:VAL:HG21	1.08	1.06
1:C:288:LEU:HD11	1:C:290:LEU:HD21	1.31	1.06
1:C:207:VAL:N	1:C:329:ARG:NH2	1.78	1.06
1:B:248:ALA:O	1:B:263:VAL:CB	2.03	1.06
1:B:160:LYS:HG3	1:B:161:PRO:HD2	1.11	1.06
1:A:172:ILE:O	1:A:173:GLU:O	1.72	1.05
1:A:152:LEU:HD22	1:A:186:LEU:CD1	1.85	1.05
1:B:152:LEU:HD22	1:B:186:LEU:CD1	1.85	1.05
1:B:265:TRP:HZ3	1:B:348:ALA:O	1.20	1.05
1:C:277:ASP:HA	1:C:334:LYS:HD2	1.35	1.05
1:B:130:ARG:HD3	1:B:237:GLN:CA	1.84	1.05
1:A:278:CYS:N	1:A:334:LYS:HD2	1.68	1.05
1:A:278:CYS:HB3	1:A:333:VAL:O	1.53	1.05
1:C:255:GLY:HA2	1:C:342:PRO:HB3	1.33	1.05
1:A:96:ASN:OD1	1:A:216:THR:O	1.74	1.05
1:A:255:GLY:HA2	1:A:342:PRO:HB3	1.33	1.05
1:C:166:LEU:O	1:C:169:LEU:N	1.88	1.05
1:C:327:ALA:HB3	1:C:331:GLN:OE1	1.48	1.05
1:C:291:PHE:CB	1:C:345:LYS:O	2.03	1.05
1:C:86:GLY:HA2	1:C:234:TYR:CE1	1.90	1.05
1:B:304:ASP:O	1:B:331:GLN:CB	2.04	1.05
1:B:172:ILE:O	1:B:173:GLU:O	1.72	1.05
1:B:327:ALA:HB3	1:B:331:GLN:OE1	1.48	1.05
1:C:339:GLU:C	1:C:340:GLU:CA	2.24	1.05
1:A:130:ARG:HB2	1:A:237:GLN:HB3	1.07	1.04
1:B:134:LEU:HD21	1:B:188:VAL:HG21	1.08	1.04
1:A:249:GLN:HB3	1:A:265:TRP:HZ3	1.17	1.04
1:A:291:PHE:CB	1:A:345:LYS:O	2.03	1.04
1:A:179:VAL:CG1	1:A:181:TRP:CD1	2.40	1.04
1:A:89:LEU:C	1:A:89:LEU:HD23	1.78	1.04
1:C:96:ASN:OD1	1:C:216:THR:O	1.74	1.04
1:B:89:LEU:HD23	1:B:89:LEU:C	1.77	1.04
1:B:96:ASN:OD1	1:B:216:THR:O	1.74	1.04
1:A:164:ASN:HD22	1:A:164:ASN:N	1.19	1.04
1:C:159:ALA:HB2	1:C:328:GLU:HB2	1.35	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:315:ALA:HB2	1:C:318:SER:HB3	1.36	1.04
1:B:179:VAL:CG1	1:B:181:TRP:CD1	2.40	1.04
1:B:315:ALA:HB2	1:B:318:SER:HB3	1.36	1.04
1:B:278:CYS:N	1:B:334:LYS:HD3	1.71	1.04
1:C:252:ASP:OD2	1:C:345:LYS:HE2	1.55	1.04
1:C:304:ASP:O	1:C:331:GLN:CB	2.04	1.04
1:A:315:ALA:HB2	1:A:318:SER:HB3	1.36	1.04
1:A:277:ASP:HA	1:A:334:LYS:HD2	1.35	1.04
1:C:179:VAL:CG1	1:C:181:TRP:CD1	2.40	1.03
1:B:296:PRO:CG	1:B:337:THR:CG2	1.76	1.03
1:B:130:ARG:HB2	1:B:237:GLN:CB	1.88	1.03
1:C:207:VAL:CA	1:C:329:ARG:NH2	2.21	1.03
1:C:315:ALA:HB1	1:C:318:SER:H	1.16	1.03
1:B:130:ARG:HB2	1:B:237:GLN:HB3	1.07	1.03
1:C:297:VAL:HB	1:C:336:VAL:C	1.78	1.03
1:A:119:LEU:HD22	1:A:234:TYR:OH	0.86	1.03
1:C:119:LEU:HD22	1:C:234:TYR:OH	0.86	1.03
1:C:130:ARG:HB2	1:C:237:GLN:CB	1.88	1.03
1:A:297:VAL:HB	1:A:336:VAL:C	1.78	1.03
1:A:86:GLY:CA	1:A:234:TYR:HD1	1.68	1.03
1:C:290:LEU:HD22	1:C:346:TRP:HB2	1.41	1.03
1:C:89:LEU:HD23	1:C:89:LEU:C	1.78	1.03
1:B:290:LEU:HD22	1:B:346:TRP:HB2	1.41	1.03
1:B:119:LEU:HD22	1:B:234:TYR:OH	0.86	1.03
1:A:254:ALA:O	1:A:256:VAL:N	1.91	1.03
1:A:308:PHE:CE2	1:A:310:VAL:CG2	2.42	1.02
1:A:327:ALA:HB3	1:A:331:GLN:OE1	1.48	1.02
1:C:254:ALA:O	1:C:256:VAL:N	1.91	1.02
1:B:297:VAL:HB	1:B:336:VAL:C	1.78	1.02
1:A:286:PHE:HA	1:A:351:ILE:CG2	1.89	1.02
1:C:308:PHE:CE2	1:C:310:VAL:CG2	2.42	1.02
1:B:248:ALA:O	1:B:263:VAL:CG1	2.08	1.02
1:C:326:VAL:HG12	1:C:327:ALA:H	1.18	1.02
1:B:308:PHE:CE2	1:B:310:VAL:CG2	2.42	1.02
1:C:286:PHE:HA	1:C:351:ILE:CG2	1.89	1.01
1:C:338:THR:OG1	1:C:339:GLU:HB2	1.60	1.01
1:A:338:THR:OG1	1:A:339:GLU:HB2	1.60	1.01
1:B:338:THR:OG1	1:B:339:GLU:HB2	1.60	1.01
1:B:254:ALA:O	1:B:256:VAL:N	1.91	1.01
1:A:85:SER:HA	1:A:234:TYR:O	1.60	1.01
1:A:130:ARG:HB2	1:A:237:GLN:CB	1.88	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:86:GLY:CA	1:C:234:TYR:HD1	1.68	1.01
1:B:165:ASP:O	1:B:168:SER:CB	2.07	1.01
1:A:165:ASP:O	1:A:168:SER:CB	2.07	1.01
1:A:86:GLY:N	1:A:234:TYR:CD1	2.29	1.01
1:C:68:GLU:OE2	1:C:137:ARG:NH2	1.94	1.01
1:C:200:GLY:HA2	1:C:265:TRP:CD1	1.90	1.01
1:C:165:ASP:O	1:C:168:SER:CB	2.07	1.01
1:B:134:LEU:HD21	1:B:188:VAL:CG2	1.91	1.01
1:B:86:GLY:N	1:B:234:TYR:CD1	2.29	1.01
1:B:286:PHE:HA	1:B:351:ILE:CG2	1.89	1.01
1:C:135:ARG:HG3	1:C:233:GLU:HB3	1.43	1.01
1:C:200:GLY:HA2	1:C:265:TRP:HB3	1.42	1.01
1:B:315:ALA:HB1	1:B:318:SER:H	1.16	1.01
1:A:134:LEU:CD2	1:A:188:VAL:HG21	1.91	1.01
1:C:86:GLY:N	1:C:234:TYR:CD1	2.29	1.01
1:C:85:SER:HA	1:C:234:TYR:O	1.60	1.01
1:A:203:ASP:CG	1:A:205:LYS:HD3	1.81	1.01
1:C:278:CYS:N	1:C:334:LYS:HD3	1.71	1.00
1:A:278:CYS:H	1:A:334:LYS:HD3	1.25	1.00
1:C:133:SER:O	1:C:234:TYR:CA	2.09	1.00
1:C:253:PHE:HA	1:C:258:ASP:HA	1.44	1.00
1:B:253:PHE:HA	1:B:258:ASP:HA	1.44	1.00
1:C:278:CYS:H	1:C:334:LYS:HE2	1.27	1.00
1:B:134:LEU:CD2	1:B:188:VAL:HG21	1.91	1.00
1:B:85:SER:HA	1:B:234:TYR:O	1.60	1.00
1:A:253:PHE:HA	1:A:258:ASP:HA	1.44	1.00
1:C:125:GLN:HA	1:C:243:GLY:HA2	1.36	1.00
1:A:249:GLN:HB3	1:A:265:TRP:CZ3	1.97	1.00
1:C:197:VAL:HG21	1:C:350:ARG:HH22	1.20	1.00
1:A:297:VAL:CB	1:A:336:VAL:HG13	1.41	1.00
1:B:133:SER:O	1:B:234:TYR:CA	2.09	1.00
1:A:135:ARG:HG3	1:A:233:GLU:HB3	1.43	0.99
1:A:133:SER:O	1:A:234:TYR:CA	2.09	0.99
1:A:134:LEU:HD21	1:A:188:VAL:CG2	1.91	0.99
1:C:308:PHE:CE2	1:C:310:VAL:HG23	1.97	0.99
1:A:326:VAL:HG12	1:A:327:ALA:H	1.18	0.99
1:C:159:ALA:HB1	1:C:328:GLU:CD	1.80	0.99
1:B:269:LYS:C	1:B:277:ASP:HB3	1.82	0.99
1:B:203:ASP:CG	1:B:205:LYS:HD3	1.82	0.99
1:A:185:ILE:CD1	1:A:186:LEU:N	2.05	0.99
1:A:269:LYS:C	1:A:277:ASP:HB3	1.82	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:249:GLN:HB3	1:B:265:TRP:CZ3	1.97	0.99
1:C:79:ARG:O	1:C:80:ASP:HB2	1.61	0.99
1:C:297:VAL:CB	1:C:336:VAL:HG13	1.41	0.99
1:B:278:CYS:H	1:B:334:LYS:HE2	1.27	0.99
1:C:134:LEU:CD2	1:C:188:VAL:HG21	1.91	0.99
1:A:160:LYS:HG3	1:A:161:PRO:CD	1.93	0.99
1:A:290:LEU:HD22	1:A:346:TRP:HB2	1.41	0.98
1:B:160:LYS:HG3	1:B:161:PRO:CD	1.93	0.98
1:C:249:GLN:HB3	1:C:265:TRP:CZ3	1.97	0.98
1:C:152:LEU:HD22	1:C:186:LEU:HD13	1.45	0.98
1:B:179:VAL:HG23	1:B:180:PRO:HD2	1.46	0.98
1:B:152:LEU:HD22	1:B:186:LEU:HD13	1.45	0.98
1:B:252:ASP:CG	1:B:345:LYS:HG2	1.84	0.98
1:A:252:ASP:CG	1:A:345:LYS:HG2	1.84	0.98
1:C:134:LEU:HD21	1:C:188:VAL:CG2	1.91	0.98
1:B:135:ARG:HG3	1:B:233:GLU:HB3	1.43	0.98
1:A:308:PHE:CE2	1:A:310:VAL:HG23	1.97	0.98
1:C:203:ASP:CG	1:C:205:LYS:HD3	1.81	0.98
1:A:296:PRO:CG	1:A:337:THR:CG2	1.76	0.98
1:B:308:PHE:CE2	1:B:310:VAL:HG23	1.97	0.98
1:A:278:CYS:N	1:A:334:LYS:HE2	1.78	0.98
1:C:160:LYS:HG3	1:C:161:PRO:CD	1.93	0.98
1:C:77:THR:HG22	1:C:78:ALA:N	1.78	0.98
1:C:200:GLY:HA3	1:C:265:TRP:HA	1.43	0.98
1:C:269:LYS:C	1:C:277:ASP:HB3	1.82	0.98
1:B:174:GLY:C	1:B:175:CYS:SG	2.42	0.98
1:A:338:THR:OG1	1:A:339:GLU:N	1.94	0.98
1:C:277:ASP:C	1:C:334:LYS:HD2	1.84	0.98
1:C:278:CYS:CB	1:C:333:VAL:O	2.12	0.98
1:C:252:ASP:CG	1:C:345:LYS:HG2	1.84	0.97
1:B:290:LEU:CD2	1:B:346:TRP:HB2	1.94	0.97
1:C:143:PRO:O	1:C:146:THR:CG2	2.13	0.97
1:C:269:LYS:HG2	1:C:270:GLY:N	1.75	0.97
1:C:278:CYS:N	1:C:334:LYS:HE2	1.78	0.97
1:B:185:ILE:CD1	1:B:186:LEU:N	2.05	0.97
1:B:269:LYS:HG2	1:B:270:GLY:N	1.75	0.97
1:A:138:TYR:HB2	1:A:184:PHE:CE2	1.99	0.97
1:B:101:PRO:HG3	1:B:217:TYR:HE2	1.28	0.97
1:A:155:ASP:HB2	1:A:172:ILE:HD11	1.47	0.97
1:C:101:PRO:HD2	1:C:166:LEU:HD12	1.37	0.97
1:B:315:ALA:O	1:B:316:ALA:C	2.00	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:278:CYS:N	1:A:334:LYS:HD3	1.72	0.97
1:C:290:LEU:CD2	1:C:346:TRP:HB2	1.94	0.97
1:A:278:CYS:H	1:A:334:LYS:HE2	1.26	0.97
1:C:174:GLY:C	1:C:175:CYS:SG	2.42	0.97
1:B:278:CYS:CB	1:B:333:VAL:O	2.12	0.97
1:B:277:ASP:C	1:B:334:LYS:HD2	1.84	0.97
1:A:278:CYS:CB	1:A:333:VAL:O	2.12	0.97
1:A:174:GLY:C	1:A:175:CYS:SG	2.42	0.97
1:C:95:LYS:NZ	1:C:221:ALA:HA	1.80	0.97
1:B:138:TYR:HB2	1:B:184:PHE:CE2	1.99	0.97
1:B:155:ASP:HB2	1:B:172:ILE:HD11	1.47	0.97
1:A:269:LYS:HG2	1:A:270:GLY:N	1.75	0.97
1:C:150:VAL:HG12	1:C:150:VAL:O	1.65	0.96
1:C:185:ILE:CD1	1:C:186:LEU:N	2.05	0.96
1:A:277:ASP:C	1:A:334:LYS:HD2	1.84	0.96
1:C:274:TRP:NE1	1:C:339:GLU:O	1.98	0.96
1:A:154:PHE:CE1	1:A:155:ASP:C	2.39	0.96
1:A:179:VAL:HG23	1:A:180:PRO:HD2	1.45	0.96
1:C:113:PRO:O	1:C:115:THR:N	1.99	0.96
1:C:278:CYS:H	1:C:334:LYS:HD3	1.25	0.96
1:A:290:LEU:CD2	1:A:346:TRP:HB2	1.94	0.96
1:A:101:PRO:HG3	1:A:217:TYR:HE2	1.28	0.96
1:A:86:GLY:N	1:A:234:TYR:HD1	1.62	0.96
1:C:154:PHE:CE1	1:C:155:ASP:C	2.39	0.96
1:B:154:PHE:CE1	1:B:155:ASP:C	2.39	0.96
1:A:350:ARG:C	1:A:351:ILE:HG22	1.86	0.96
1:C:138:TYR:HB2	1:C:184:PHE:CE2	2.00	0.96
1:A:326:VAL:HG12	1:A:327:ALA:O	1.65	0.96
1:B:350:ARG:O	1:B:351:ILE:HG22	0.78	0.96
1:C:206:LEU:O	1:C:206:LEU:HD12	1.66	0.96
1:C:159:ALA:CB	1:C:328:GLU:CD	2.33	0.96
1:B:105:THR:HG1	1:B:211:LYS:CD	1.70	0.96
1:A:95:LYS:NZ	1:A:221:ALA:HA	1.80	0.96
1:B:119:LEU:HD22	1:B:234:TYR:HH	1.21	0.96
1:A:350:ARG:O	1:A:351:ILE:HG22	0.78	0.96
1:A:285:ASN:O	1:A:351:ILE:HG23	1.66	0.96
1:C:296:PRO:HG2	1:C:337:THR:CB	1.95	0.96
1:C:315:ALA:O	1:C:316:ALA:C	2.00	0.95
1:C:326:VAL:HG12	1:C:327:ALA:O	1.65	0.95
1:C:285:ASN:O	1:C:351:ILE:HG23	1.66	0.95
1:B:149:LYS:CB	1:B:217:TYR:HE1	1.79	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:95:LYS:NZ	1:B:221:ALA:HA	1.80	0.95
1:A:248:ALA:HB3	1:A:264:SER:CB	1.96	0.95
1:B:274:TRP:NE1	1:B:339:GLU:O	1.98	0.95
1:A:143:PRO:O	1:A:146:THR:CG2	2.13	0.95
1:A:149:LYS:CB	1:A:217:TYR:HE1	1.79	0.95
1:B:143:PRO:O	1:B:146:THR:CG2	2.13	0.95
1:A:206:LEU:O	1:A:206:LEU:HD12	1.66	0.95
1:A:149:LYS:HB3	1:A:217:TYR:HE1	1.11	0.95
1:C:207:VAL:CA	1:C:329:ARG:HH22	1.79	0.95
1:B:130:ARG:NH1	1:B:236:VAL:O	2.00	0.95
1:B:149:LYS:HB3	1:B:217:TYR:HE1	1.11	0.95
1:C:149:LYS:CB	1:C:217:TYR:HE1	1.79	0.95
1:C:130:ARG:CB	1:C:237:GLN:HB3	1.97	0.95
1:B:206:LEU:O	1:B:206:LEU:HD12	1.66	0.95
1:A:152:LEU:HD22	1:A:186:LEU:HD13	1.45	0.95
1:A:274:TRP:NE1	1:A:339:GLU:O	1.98	0.95
1:C:350:ARG:O	1:C:351:ILE:HG22	0.78	0.95
1:B:326:VAL:HG12	1:B:327:ALA:O	1.65	0.95
1:C:291:PHE:HB2	1:C:346:TRP:HB3	1.48	0.95
1:B:291:PHE:HB2	1:B:346:TRP:HB3	1.48	0.95
1:A:130:ARG:NH1	1:A:236:VAL:O	2.00	0.95
1:B:150:VAL:HG12	1:B:150:VAL:O	1.65	0.95
1:A:150:VAL:HG12	1:A:150:VAL:O	1.65	0.95
1:C:155:ASP:HB2	1:C:172:ILE:HD11	1.47	0.95
1:B:278:CYS:N	1:B:334:LYS:HE2	1.78	0.95
1:A:277:ASP:OD1	1:A:334:LYS:HE2	1.67	0.95
1:A:130:ARG:CB	1:A:237:GLN:HB3	1.96	0.94
1:B:277:ASP:OD1	1:B:334:LYS:HE2	1.67	0.94
1:A:113:PRO:O	1:A:115:THR:N	1.99	0.94
1:A:296:PRO:HG2	1:A:337:THR:CB	1.95	0.94
1:C:205:LYS:H	1:C:329:ARG:CZ	1.79	0.94
1:B:248:ALA:C	1:B:263:VAL:HG12	1.88	0.94
1:C:101:PRO:HG3	1:C:217:TYR:HE2	1.28	0.94
1:B:113:PRO:O	1:B:115:THR:N	1.99	0.94
1:B:350:ARG:C	1:B:351:ILE:HG22	1.86	0.94
1:B:296:PRO:HG2	1:B:337:THR:CB	1.95	0.94
1:B:141:MET:HG3	1:B:141:MET:O	1.66	0.94
1:C:130:ARG:NH1	1:C:236:VAL:O	2.00	0.94
1:A:119:LEU:HD22	1:A:234:TYR:HH	1.21	0.94
1:C:179:VAL:HG23	1:C:180:PRO:HD2	1.46	0.94
1:B:285:ASN:O	1:B:351:ILE:HG23	1.66	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:269:LYS:O	1:A:277:ASP:HB3	0.76	0.94
1:C:350:ARG:C	1:C:351:ILE:HG22	1.86	0.94
1:A:101:PRO:CG	1:A:166:LEU:CD1	2.45	0.94
1:C:277:ASP:OD1	1:C:334:LYS:HE2	1.67	0.94
1:B:101:PRO:CG	1:B:166:LEU:CD1	2.46	0.94
1:B:130:ARG:CB	1:B:237:GLN:HB3	1.96	0.94
1:B:86:GLY:N	1:B:234:TYR:HD1	1.63	0.94
1:A:291:PHE:HB2	1:A:346:TRP:HB3	1.48	0.94
1:C:204:PRO:HB3	1:C:329:ARG:HG3	1.47	0.94
1:A:315:ALA:CB	1:A:318:SER:CB	2.46	0.94
1:A:289:THR:HG23	1:A:321:TRP:CE3	2.03	0.94
1:C:101:PRO:CG	1:C:166:LEU:CD1	2.45	0.93
1:B:326:VAL:CG1	1:B:327:ALA:N	2.19	0.93
1:B:163:PRO:CA	1:B:164:ASN:HD22	1.82	0.93
1:B:269:LYS:O	1:B:277:ASP:HB3	0.76	0.93
1:B:289:THR:HG23	1:B:321:TRP:CE3	2.03	0.93
1:A:265:TRP:O	1:A:281:LEU:N	2.02	0.93
1:C:112:GLU:HA	1:C:284:GLY:HA3	1.50	0.93
1:C:269:LYS:O	1:C:277:ASP:HB3	0.76	0.93
1:B:89:LEU:CD2	1:B:89:LEU:C	2.37	0.93
1:C:141:MET:O	1:C:141:MET:HG3	1.66	0.93
1:C:89:LEU:CD2	1:C:89:LEU:C	2.37	0.93
1:B:315:ALA:CB	1:B:318:SER:CB	2.46	0.93
1:A:141:MET:HG3	1:A:141:MET:O	1.66	0.93
1:C:207:VAL:CG1	1:C:329:ARG:HH21	1.75	0.93
1:B:124:ALA:HB1	1:B:245:THR:HG22	1.51	0.93
1:C:265:TRP:O	1:C:281:LEU:N	2.02	0.93
1:C:149:LYS:HB3	1:C:217:TYR:HE1	1.11	0.93
1:C:289:THR:HG23	1:C:321:TRP:CE3	2.03	0.93
1:C:86:GLY:N	1:C:234:TYR:HD1	1.63	0.93
1:B:154:PHE:HB2	1:B:212:LEU:CD1	1.99	0.93
1:B:82:ILE:HD11	1:B:122:GLU:OE2	1.69	0.93
1:A:124:ALA:HB1	1:A:245:THR:HG22	1.51	0.92
1:A:154:PHE:HB2	1:A:212:LEU:CD1	1.99	0.92
1:C:154:PHE:HB2	1:C:212:LEU:CD1	1.99	0.92
1:C:333:VAL:O	1:C:334:LYS:CD	2.18	0.92
1:A:130:ARG:HD3	1:A:237:GLN:N	1.84	0.92
1:C:159:ALA:HB1	1:C:328:GLU:HB3	1.50	0.92
1:C:315:ALA:CB	1:C:318:SER:CB	2.46	0.92
1:B:285:ASN:O	1:B:351:ILE:CG2	2.17	0.92
1:A:333:VAL:O	1:A:334:LYS:CD	2.18	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:294:LYS:C	1:A:296:PRO:HD3	1.90	0.92
1:A:82:ILE:HD11	1:A:122:GLU:OE2	1.69	0.92
1:C:204:PRO:CB	1:C:329:ARG:HG3	1.60	0.92
1:B:333:VAL:O	1:B:334:LYS:CD	2.18	0.92
1:B:338:THR:OG1	1:B:339:GLU:N	1.94	0.92
1:A:163:PRO:CA	1:A:164:ASN:HD22	1.82	0.92
1:C:294:LYS:C	1:C:296:PRO:HD3	1.90	0.92
1:C:342:PRO:O	1:C:343:LYS:HD3	1.70	0.92
1:C:82:ILE:HD11	1:C:122:GLU:OE2	1.69	0.92
1:A:278:CYS:N	1:A:334:LYS:CE	2.20	0.92
1:B:294:LYS:C	1:B:296:PRO:HD3	1.90	0.92
1:B:265:TRP:O	1:B:281:LEU:N	2.02	0.92
1:C:163:PRO:C	1:C:164:ASN:HD22	1.73	0.91
1:C:83:THR:HG22	1:C:84:ARG:H	1.34	0.91
1:B:308:PHE:HE2	1:B:310:VAL:HG21	1.34	0.91
1:A:248:ALA:HB2	1:A:264:SER:C	1.89	0.91
1:C:126:TYR:HA	1:C:242:THR:HG22	1.50	0.91
1:A:286:PHE:HA	1:A:351:ILE:HG22	1.52	0.91
1:A:342:PRO:O	1:A:343:LYS:HD3	1.70	0.91
1:A:83:THR:HG22	1:A:84:ARG:H	1.34	0.91
1:C:163:PRO:CA	1:C:164:ASN:HD22	1.82	0.91
1:B:150:VAL:O	1:B:150:VAL:CG1	2.18	0.91
1:B:163:PRO:C	1:B:164:ASN:HD22	1.73	0.91
1:B:248:ALA:O	1:B:263:VAL:HG12	1.70	0.91
1:A:143:PRO:O	1:A:146:THR:HG23	1.71	0.91
1:C:296:PRO:CB	1:C:337:THR:HG22	2.00	0.91
1:A:296:PRO:CB	1:A:337:THR:HG22	2.00	0.91
1:A:313:GLU:CG	1:A:318:SER:CB	2.49	0.91
1:B:296:PRO:CB	1:B:337:THR:HG22	2.00	0.91
1:A:130:ARG:HD3	1:A:237:GLN:HB2	0.97	0.91
1:C:124:ALA:HB1	1:C:245:THR:HG22	1.51	0.91
1:C:338:THR:OG1	1:C:339:GLU:N	1.94	0.91
1:A:296:PRO:CD	1:A:337:THR:HG22	2.01	0.91
1:C:113:PRO:C	1:C:115:THR:H	1.74	0.91
1:C:159:ALA:CB	1:C:328:GLU:HG3	2.01	0.91
1:C:207:VAL:CB	1:C:329:ARG:NH2	2.34	0.91
1:B:164:ASN:ND2	1:B:164:ASN:H	1.47	0.91
1:B:342:PRO:O	1:B:343:LYS:HD3	1.70	0.91
1:C:313:GLU:CG	1:C:318:SER:CB	2.49	0.91
1:B:130:ARG:HD3	1:B:237:GLN:N	1.84	0.91
1:B:83:THR:HG22	1:B:84:ARG:H	1.34	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:285:ASN:O	1:A:351:ILE:CG2	2.17	0.91
1:C:134:LEU:HA	1:C:233:GLU:O	0.73	0.91
1:C:285:ASN:O	1:C:351:ILE:CG2	2.17	0.91
1:C:130:ARG:HH11	1:C:237:GLN:HA	1.36	0.90
1:B:286:PHE:HA	1:B:351:ILE:HG22	1.52	0.90
1:B:300:LEU:HG	1:B:308:PHE:CZ	2.06	0.90
1:A:126:TYR:N	1:A:242:THR:HG22	1.86	0.90
1:A:134:LEU:HA	1:A:233:GLU:O	0.73	0.90
1:A:150:VAL:O	1:A:150:VAL:CG1	2.18	0.90
1:C:130:ARG:HD3	1:C:237:GLN:N	1.84	0.90
1:A:296:PRO:HG2	1:A:337:THR:HG21	1.51	0.90
1:B:296:PRO:CD	1:B:337:THR:HG22	2.01	0.90
1:A:163:PRO:C	1:A:164:ASN:HD22	1.73	0.90
1:B:134:LEU:CD2	1:B:188:VAL:CG2	2.49	0.90
1:C:126:TYR:N	1:C:242:THR:HG22	1.86	0.90
1:C:150:VAL:CG1	1:C:150:VAL:O	2.18	0.90
1:C:264:SER:C	1:C:265:TRP:CA	2.40	0.90
1:A:277:ASP:HA	1:A:334:LYS:CD	2.02	0.90
1:A:186:LEU:HD23	1:A:187:THR:N	1.87	0.90
1:B:134:LEU:HA	1:B:233:GLU:O	0.73	0.90
1:B:130:ARG:HH11	1:B:237:GLN:HA	1.36	0.90
1:A:164:ASN:ND2	1:A:164:ASN:H	1.47	0.90
1:A:90:ILE:HD11	1:A:232:VAL:HG23	1.53	0.90
1:C:207:VAL:CG1	1:C:329:ARG:NE	2.17	0.90
1:B:277:ASP:HA	1:B:334:LYS:CD	2.02	0.90
1:B:89:LEU:CD2	1:B:89:LEU:O	2.20	0.90
1:A:126:TYR:HA	1:A:242:THR:HG22	1.50	0.90
1:B:186:LEU:HD23	1:B:187:THR:N	1.87	0.90
1:B:126:TYR:HA	1:B:242:THR:HG22	1.50	0.90
1:C:300:LEU:HG	1:C:308:PHE:CZ	2.06	0.90
1:C:308:PHE:HE2	1:C:310:VAL:HG21	1.34	0.90
1:C:246:SER:O	1:C:350:ARG:N	2.05	0.90
1:C:274:TRP:CD1	1:C:339:GLU:O	2.25	0.89
1:C:115:THR:O	1:C:116:PHE:HD1	1.48	0.89
1:C:143:PRO:O	1:C:146:THR:HG23	1.71	0.89
1:C:134:LEU:CD2	1:C:188:VAL:CG2	2.49	0.89
1:A:89:LEU:C	1:A:89:LEU:CD2	2.37	0.89
1:A:89:LEU:CD2	1:A:89:LEU:O	2.20	0.89
1:A:95:LYS:NZ	1:A:221:ALA:CA	2.35	0.89
1:C:204:PRO:CB	1:C:328:GLU:CG	2.48	0.89
1:A:308:PHE:HE2	1:A:310:VAL:HG21	1.34	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:203:ASP:OD1	1:B:205:LYS:HD3	0.71	0.89
1:C:200:GLY:CA	1:C:265:TRP:HD1	1.76	0.89
1:C:304:ASP:OD2	1:C:331:GLN:HA	1.72	0.89
1:C:164:ASN:H	1:C:164:ASN:ND2	1.47	0.89
1:C:203:ASP:OD1	1:C:205:LYS:HD3	0.71	0.89
1:C:277:ASP:HA	1:C:334:LYS:CD	2.02	0.89
1:B:143:PRO:O	1:B:146:THR:HG23	1.71	0.89
1:B:304:ASP:OD2	1:B:331:GLN:HA	1.73	0.89
1:B:90:ILE:HD11	1:B:232:VAL:HG23	1.53	0.89
1:A:300:LEU:HG	1:A:308:PHE:CZ	2.07	0.89
1:C:244:SER:O	1:C:245:THR:CG2	2.21	0.89
1:C:286:PHE:HA	1:C:351:ILE:HG22	1.52	0.89
1:C:89:LEU:O	1:C:89:LEU:CD2	2.20	0.89
1:A:134:LEU:CD2	1:A:188:VAL:CG2	2.49	0.89
1:B:115:THR:O	1:B:116:PHE:HD1	1.48	0.89
1:B:126:TYR:N	1:B:242:THR:HG22	1.86	0.89
1:A:203:ASP:OD1	1:A:205:LYS:HD3	0.71	0.89
1:B:114:GLY:HA3	1:B:329:ARG:HE	1.38	0.89
1:B:264:SER:C	1:B:265:TRP:CA	2.40	0.89
1:C:95:LYS:NZ	1:C:221:ALA:CA	2.35	0.89
1:C:130:ARG:HD3	1:C:237:GLN:HB2	0.97	0.88
1:B:154:PHE:HB2	1:B:212:LEU:HD12	1.56	0.88
1:A:264:SER:C	1:A:265:TRP:CA	2.40	0.88
1:A:274:TRP:CD1	1:A:339:GLU:O	2.25	0.88
1:B:274:TRP:CD1	1:B:339:GLU:O	2.26	0.88
1:C:119:LEU:HD22	1:C:234:TYR:HH	1.29	0.88
1:B:308:PHE:CE2	1:B:310:VAL:HG21	2.07	0.88
1:B:249:GLN:CB	1:B:265:TRP:CZ3	2.56	0.88
1:C:249:GLN:CB	1:C:265:TRP:CZ3	2.56	0.88
1:A:304:ASP:OD2	1:A:331:GLN:HA	1.73	0.88
1:C:296:PRO:CD	1:C:337:THR:HG22	2.01	0.88
1:A:130:ARG:HH11	1:A:237:GLN:HA	1.36	0.88
1:B:95:LYS:NZ	1:B:221:ALA:CA	2.35	0.88
1:B:326:VAL:HG12	1:B:327:ALA:H	1.18	0.88
1:A:315:ALA:O	1:A:316:ALA:C	2.00	0.88
1:A:105:THR:HG1	1:A:211:LYS:CD	1.74	0.88
1:A:138:TYR:HH	1:A:227:LEU:HB3	1.37	0.88
1:B:313:GLU:CG	1:B:318:SER:CB	2.49	0.88
1:A:249:GLN:CB	1:A:265:TRP:CZ3	2.56	0.88
1:A:113:PRO:C	1:A:115:THR:H	1.74	0.88
1:C:231:ARG:HG3	1:C:232:VAL:N	1.87	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:154:PHE:HB2	1:C:212:LEU:HD12	1.56	0.88
1:C:186:LEU:HD23	1:C:187:THR:N	1.87	0.88
1:A:154:PHE:HB2	1:A:212:LEU:HD12	1.56	0.88
1:A:244:SER:O	1:A:245:THR:CG2	2.21	0.88
1:B:244:SER:O	1:B:245:THR:CG2	2.21	0.88
1:C:296:PRO:HG2	1:C:337:THR:HG21	1.51	0.88
1:A:120:ILE:HD12	1:A:329:ARG:NH2	1.88	0.87
1:C:152:LEU:O	1:C:186:LEU:HD12	1.74	0.87
1:C:90:ILE:HD11	1:C:232:VAL:HG23	1.53	0.87
1:A:149:LYS:HD3	1:A:170:TYR:OH	1.43	0.87
1:C:308:PHE:CE2	1:C:310:VAL:HG21	2.07	0.87
1:B:109:ASN:OD1	1:B:110:PRO:HD2	1.74	0.87
1:C:56:THR:HG23	1:C:57:ARG:N	1.89	0.87
1:A:82:ILE:HG21	1:A:238:LEU:HB2	1.56	0.87
1:C:134:LEU:HA	1:C:233:GLU:C	1.94	0.87
1:C:251:GLY:O	1:C:346:TRP:CD2	2.28	0.87
1:C:71:THR:HG21	1:C:87:SER:CB	2.04	0.87
1:B:113:PRO:C	1:B:115:THR:H	1.74	0.87
1:C:76:SER:CB	1:C:76:SER:C	2.43	0.87
1:C:130:ARG:HH11	1:C:237:GLN:CA	1.88	0.87
1:B:130:ARG:HD3	1:B:237:GLN:HB2	0.97	0.87
1:B:251:GLY:O	1:B:346:TRP:CD2	2.28	0.87
1:C:109:ASN:OD1	1:C:110:PRO:HD2	1.74	0.87
1:B:231:ARG:HG3	1:B:232:VAL:N	1.87	0.87
1:A:130:ARG:HH11	1:A:237:GLN:CA	1.88	0.87
1:C:278:CYS:N	1:C:334:LYS:CE	2.20	0.87
1:B:82:ILE:HG21	1:B:238:LEU:HB2	1.56	0.87
1:A:101:PRO:HD2	1:A:166:LEU:HD12	1.37	0.86
1:C:264:SER:CA	1:C:265:TRP:N	2.38	0.86
1:B:296:PRO:CG	1:B:337:THR:CB	2.52	0.86
1:C:130:ARG:NE	1:C:237:GLN:HB2	1.90	0.86
1:B:134:LEU:HA	1:B:233:GLU:C	1.94	0.86
1:B:152:LEU:O	1:B:186:LEU:HD12	1.74	0.86
1:C:105:THR:HG1	1:C:211:LYS:CD	1.75	0.86
1:C:59:SER:O	1:C:61:PRO:HD3	1.74	0.86
1:C:198:ALA:C	1:C:200:GLY:H	1.78	0.86
1:C:288:LEU:CD1	1:C:290:LEU:CD2	2.53	0.86
1:C:68:GLU:HG2	1:C:137:ARG:HH22	1.38	0.86
1:A:248:ALA:CB	1:A:265:TRP:CA	2.53	0.86
1:B:264:SER:CA	1:B:265:TRP:N	2.38	0.86
1:A:130:ARG:NE	1:A:237:GLN:HB2	1.90	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:288:LEU:HD11	1:A:290:LEU:HG	1.58	0.86
1:A:251:GLY:O	1:A:346:TRP:CD2	2.28	0.86
1:C:89:LEU:HD22	1:C:89:LEU:O	1.75	0.86
1:B:130:ARG:HH11	1:B:237:GLN:CA	1.88	0.86
1:A:109:ASN:OD1	1:A:110:PRO:HD2	1.74	0.86
1:A:115:THR:O	1:A:116:PHE:HD1	1.48	0.86
1:A:231:ARG:HG3	1:A:232:VAL:N	1.87	0.86
1:C:72:GLN:HE21	1:C:72:GLN:HA	1.39	0.86
1:C:318:SER:OG	1:C:319:VAL:N	2.07	0.86
1:B:101:PRO:CG	1:B:166:LEU:HD11	2.06	0.86
1:A:101:PRO:CG	1:A:166:LEU:HD11	2.06	0.86
1:C:154:PHE:HE1	1:C:155:ASP:O	1.59	0.85
1:C:77:THR:HG22	1:C:78:ALA:H	1.37	0.85
1:C:125:GLN:HA	1:C:243:GLY:CA	2.06	0.85
1:B:112:GLU:CG	1:B:329:ARG:NH2	2.39	0.85
1:B:154:PHE:HE1	1:B:155:ASP:O	1.59	0.85
1:B:130:ARG:NE	1:B:237:GLN:HB2	1.90	0.85
1:A:264:SER:CA	1:A:265:TRP:N	2.38	0.85
1:B:296:PRO:HG2	1:B:337:THR:HG21	1.51	0.85
1:C:200:GLY:N	1:C:265:TRP:HD1	1.36	0.85
1:C:90:ILE:HD11	1:C:232:VAL:HG21	1.58	0.85
1:B:296:PRO:CG	1:B:337:THR:HG21	2.06	0.85
1:A:136:PHE:CE1	1:A:232:VAL:HG22	2.12	0.85
1:A:89:LEU:HD22	1:A:89:LEU:O	1.75	0.85
1:B:89:LEU:O	1:B:89:LEU:HD22	1.75	0.85
1:A:90:ILE:HD11	1:A:232:VAL:HG21	1.58	0.85
1:C:277:ASP:OD1	1:C:279:HIS:ND1	2.10	0.85
1:C:101:PRO:CG	1:C:166:LEU:HD11	2.06	0.85
1:A:308:PHE:CE2	1:A:310:VAL:HG21	2.07	0.85
1:A:296:PRO:CG	1:A:337:THR:CB	2.52	0.85
1:A:125:GLN:HA	1:A:243:GLY:CA	2.06	0.85
1:A:152:LEU:O	1:A:186:LEU:HD12	1.74	0.85
1:A:130:ARG:HD2	1:A:237:GLN:HB2	0.85	0.85
1:B:149:LYS:HD3	1:B:170:TYR:OH	1.43	0.85
1:C:136:PHE:CE1	1:C:232:VAL:HG22	2.12	0.85
1:C:179:VAL:HG22	1:C:180:PRO:HD2	1.58	0.85
1:C:82:ILE:HG21	1:C:238:LEU:HB2	1.56	0.85
1:B:149:LYS:HG2	1:B:177:SER:HG	1.37	0.85
1:B:315:ALA:HB1	1:B:318:SER:CB	2.07	0.85
1:A:277:ASP:OD1	1:A:279:HIS:ND1	2.10	0.85
1:A:149:LYS:HG2	1:A:177:SER:HG	1.37	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:318:SER:OG	1:B:319:VAL:N	2.07	0.84
1:A:119:LEU:CD2	1:A:234:TYR:CZ	2.54	0.84
1:C:149:LYS:HG2	1:C:177:SER:HG	1.40	0.84
1:C:197:VAL:HG23	1:C:350:ARG:NH2	1.79	0.84
1:C:80:ASP:HA	1:C:241:ARG:CZ	2.07	0.84
1:A:154:PHE:HE1	1:A:155:ASP:O	1.59	0.84
1:B:119:LEU:CD2	1:B:234:TYR:CE2	2.60	0.84
1:C:204:PRO:CG	1:C:328:GLU:C	2.43	0.84
1:C:288:LEU:HD11	1:C:290:LEU:HG	1.57	0.84
1:B:288:LEU:CD1	1:B:290:LEU:CD2	2.53	0.84
1:B:136:PHE:CE1	1:B:232:VAL:HG22	2.12	0.84
1:B:130:ARG:HD2	1:B:237:GLN:HB2	0.85	0.84
1:B:90:ILE:HD11	1:B:232:VAL:HG21	1.58	0.84
1:A:288:LEU:HD21	1:A:290:LEU:HD11	1.60	0.84
1:B:277:ASP:OD1	1:B:279:HIS:ND1	2.10	0.84
1:A:315:ALA:HB1	1:A:318:SER:CA	2.08	0.84
1:C:119:LEU:CD2	1:C:234:TYR:CE2	2.60	0.84
1:C:133:SER:C	1:C:234:TYR:HA	1.99	0.84
1:C:207:VAL:H	1:C:329:ARG:CZ	1.90	0.84
1:C:149:LYS:HD3	1:C:217:TYR:OH	1.78	0.84
1:C:95:LYS:HZ2	1:C:221:ALA:HA	1.41	0.84
1:C:315:ALA:HB1	1:C:318:SER:CA	2.08	0.84
1:C:327:ALA:CA	1:C:331:GLN:OE1	2.26	0.84
1:B:125:GLN:HA	1:B:243:GLY:CA	2.06	0.84
1:B:179:VAL:HG22	1:B:180:PRO:HD2	1.58	0.84
1:B:149:LYS:HD3	1:B:217:TYR:OH	1.78	0.84
1:B:291:PHE:O	1:B:292:TYR:HB3	1.78	0.84
1:A:291:PHE:O	1:A:292:TYR:HB3	1.78	0.84
1:A:119:LEU:CD2	1:A:234:TYR:CE2	2.60	0.83
1:C:130:ARG:HD2	1:C:237:GLN:HB2	0.85	0.83
1:C:288:LEU:CD1	1:C:290:LEU:HD21	2.08	0.83
1:C:328:GLU:C	1:C:329:ARG:O	2.14	0.83
1:B:328:GLU:C	1:B:329:ARG:O	2.14	0.83
1:C:296:PRO:CG	1:C:337:THR:CB	2.52	0.83
1:A:152:LEU:HD22	1:A:186:LEU:HD12	1.61	0.83
1:A:315:ALA:HB1	1:A:318:SER:CB	2.07	0.83
1:C:338:THR:HG1	1:C:339:GLU:HB2	1.43	0.83
1:B:288:LEU:HD11	1:B:290:LEU:HG	1.58	0.83
1:C:295:ALA:HB1	1:C:315:ALA:N	1.93	0.83
1:C:315:ALA:HB1	1:C:318:SER:CB	2.08	0.83
1:B:327:ALA:CA	1:B:331:GLN:OE1	2.26	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:295:ALA:HB1	1:A:315:ALA:N	1.93	0.83
1:A:134:LEU:HA	1:A:233:GLU:C	1.95	0.83
1:C:251:GLY:O	1:C:346:TRP:CE3	2.31	0.83
1:A:296:PRO:CG	1:A:337:THR:HG21	2.06	0.83
1:A:90:ILE:O	1:A:90:ILE:HG22	1.78	0.83
1:C:288:LEU:HG	1:C:289:THR:N	1.94	0.83
1:B:251:GLY:O	1:B:346:TRP:CE3	2.31	0.83
1:A:288:LEU:CD1	1:A:290:LEU:HD21	2.08	0.83
1:A:153:ALA:CB	1:A:174:GLY:CA	2.35	0.83
1:A:149:LYS:HD3	1:A:217:TYR:OH	1.78	0.83
1:A:198:ALA:C	1:A:200:GLY:H	1.77	0.83
1:C:249:GLN:HE22	1:C:265:TRP:N	1.77	0.83
1:C:291:PHE:O	1:C:292:TYR:HB3	1.78	0.83
1:B:278:CYS:H	1:B:334:LYS:HD3	1.25	0.83
1:C:55:VAL:HG22	1:C:56:THR:N	1.93	0.83
1:A:133:SER:C	1:A:234:TYR:HA	1.99	0.83
1:A:179:VAL:HG22	1:A:180:PRO:HD2	1.58	0.83
1:C:201:ILE:HG22	1:C:265:TRP:CA	2.09	0.83
1:C:207:VAL:HG13	1:C:329:ARG:HH21	1.44	0.83
1:B:288:LEU:HG	1:B:289:THR:N	1.94	0.83
1:C:79:ARG:O	1:C:80:ASP:CB	2.27	0.83
1:A:269:LYS:HG2	1:A:270:GLY:H	1.42	0.83
1:B:295:ALA:HB1	1:B:315:ALA:N	1.93	0.82
1:C:78:ALA:C	1:C:80:ASP:H	1.82	0.82
1:A:288:LEU:HG	1:A:289:THR:N	1.94	0.82
1:B:153:ALA:CB	1:B:174:GLY:CA	2.35	0.82
1:A:327:ALA:CB	1:A:331:GLN:CD	2.39	0.82
1:C:200:GLY:CA	1:C:265:TRP:HA	2.09	0.82
1:C:277:ASP:OD1	1:C:334:LYS:CE	2.27	0.82
1:B:152:LEU:HD22	1:B:186:LEU:HD12	1.60	0.82
1:C:69:VAL:CG1	1:C:70:SER:N	2.38	0.82
1:A:277:ASP:OD1	1:A:334:LYS:CE	2.27	0.82
1:A:138:TYR:C	1:A:139:SER:O	2.16	0.82
1:C:249:GLN:NE2	1:C:265:TRP:HE3	1.78	0.82
1:C:90:ILE:O	1:C:90:ILE:HG22	1.78	0.82
1:B:198:ALA:C	1:B:200:GLY:H	1.77	0.82
1:C:69:VAL:CG1	1:C:70:SER:H	1.81	0.82
1:B:288:LEU:HD21	1:B:290:LEU:HD11	1.60	0.82
1:A:251:GLY:O	1:A:346:TRP:CE3	2.31	0.82
1:A:327:ALA:CA	1:A:331:GLN:OE1	2.26	0.82
1:C:66:TYR:CE2	1:C:183:GLY:HA3	2.15	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:169:LEU:O	1:A:172:ILE:HG22	1.80	0.82
1:B:169:LEU:O	1:B:172:ILE:HG22	1.80	0.82
1:B:300:LEU:HD11	1:B:333:VAL:CG1	2.09	0.82
1:B:90:ILE:O	1:B:90:ILE:HG22	1.78	0.82
1:A:340:GLU:O	1:A:342:PRO:HD2	1.79	0.82
1:C:170:TYR:CE1	1:C:217:TYR:OH	2.32	0.82
1:B:315:ALA:HB1	1:B:318:SER:CA	2.08	0.82
1:A:300:LEU:HD11	1:A:333:VAL:CG1	2.09	0.82
1:A:126:TYR:N	1:A:242:THR:CG2	2.43	0.82
1:C:288:LEU:HD21	1:C:290:LEU:HD11	1.60	0.82
1:C:300:LEU:HD11	1:C:333:VAL:CG1	2.09	0.82
1:B:277:ASP:OD1	1:B:334:LYS:CE	2.27	0.82
1:A:318:SER:OG	1:A:319:VAL:N	2.07	0.82
1:A:128:LYS:HA	1:A:195:ARG:O	1.80	0.81
1:C:269:LYS:HG2	1:C:270:GLY:H	1.42	0.81
1:B:138:TYR:C	1:B:139:SER:O	2.16	0.81
1:B:128:LYS:HA	1:B:195:ARG:O	1.80	0.81
1:B:285:ASN:ND2	1:B:324:VAL:O	2.13	0.81
1:A:328:GLU:C	1:A:329:ARG:O	2.14	0.81
1:C:101:PRO:CG	1:C:166:LEU:HD12	2.10	0.81
1:C:169:LEU:O	1:C:172:ILE:HG22	1.80	0.81
1:B:126:TYR:N	1:B:242:THR:CG2	2.43	0.81
1:B:95:LYS:NZ	1:B:225:ALA:N	2.28	0.81
1:B:251:GLY:O	1:B:346:TRP:CE2	2.34	0.81
1:C:296:PRO:CG	1:C:337:THR:HG21	2.06	0.81
1:B:164:ASN:HD22	1:B:164:ASN:H	0.82	0.81
1:B:340:GLU:O	1:B:342:PRO:HD2	1.80	0.81
1:A:112:GLU:O	1:A:115:THR:HG22	1.81	0.81
1:A:95:LYS:NZ	1:A:225:ALA:N	2.28	0.81
1:C:130:ARG:HD2	1:C:237:GLN:HE21	1.46	0.81
1:B:133:SER:C	1:B:234:TYR:HA	1.99	0.81
1:B:315:ALA:CB	1:B:318:SER:H	1.94	0.81
1:C:206:LEU:H	1:C:329:ARG:NH1	1.79	0.81
1:A:288:LEU:CD1	1:A:290:LEU:CD2	2.53	0.81
1:A:170:TYR:CE1	1:A:217:TYR:OH	2.32	0.81
1:C:249:GLN:HE22	1:C:265:TRP:H	1.29	0.81
1:C:285:ASN:ND2	1:C:324:VAL:O	2.13	0.81
1:A:296:PRO:HG3	1:A:337:THR:CG2	2.07	0.81
1:B:288:LEU:CD1	1:B:290:LEU:HD21	2.08	0.81
1:A:251:GLY:O	1:A:346:TRP:CE2	2.34	0.81
1:B:296:PRO:HG3	1:B:337:THR:CG2	2.07	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:107:VAL:O	1:C:115:THR:HG21	1.81	0.81
1:B:107:VAL:O	1:B:115:THR:HG21	1.81	0.81
1:B:170:TYR:CE1	1:B:217:TYR:OH	2.32	0.81
1:B:327:ALA:CB	1:B:331:GLN:CD	2.39	0.81
1:B:278:CYS:N	1:B:334:LYS:CE	2.20	0.81
1:B:119:LEU:CD2	1:B:234:TYR:CZ	2.55	0.81
1:B:95:LYS:HZ2	1:B:221:ALA:HA	1.42	0.81
1:B:90:ILE:CD1	1:B:232:VAL:CG2	2.58	0.81
1:B:286:PHE:HA	1:B:351:ILE:HG21	1.61	0.80
1:A:285:ASN:ND2	1:A:324:VAL:O	2.13	0.80
1:C:340:GLU:O	1:C:342:PRO:HD2	1.80	0.80
1:C:152:LEU:HD22	1:C:186:LEU:HD12	1.60	0.80
1:C:300:LEU:HD11	1:C:333:VAL:HG12	1.63	0.80
1:C:251:GLY:O	1:C:346:TRP:CE2	2.34	0.80
1:B:101:PRO:CG	1:B:166:LEU:HD12	2.10	0.80
1:B:96:ASN:HD21	1:B:102:LYS:HD3	1.45	0.80
1:A:101:PRO:HG3	1:A:217:TYR:CD2	2.17	0.80
1:A:96:ASN:HD21	1:A:102:LYS:HD3	1.45	0.80
1:C:96:ASN:HD21	1:C:102:LYS:HD3	1.45	0.80
1:C:315:ALA:CB	1:C:318:SER:H	1.94	0.80
1:A:300:LEU:HD11	1:A:333:VAL:HG12	1.63	0.80
1:A:90:ILE:CD1	1:A:232:VAL:CG2	2.58	0.80
1:C:95:LYS:NZ	1:C:225:ALA:N	2.28	0.80
1:A:248:ALA:HB1	1:A:265:TRP:HA	1.60	0.80
1:C:128:LYS:HA	1:C:195:ARG:O	1.80	0.80
1:C:138:TYR:C	1:C:139:SER:O	2.16	0.80
1:C:201:ILE:CG2	1:C:265:TRP:O	2.29	0.80
1:C:227:LEU:H	1:C:227:LEU:HD12	1.47	0.80
1:A:164:ASN:HD22	1:A:164:ASN:H	0.82	0.80
1:C:126:TYR:N	1:C:242:THR:CG2	2.43	0.80
1:B:112:GLU:O	1:B:115:THR:HG22	1.81	0.80
1:B:174:GLY:C	1:B:175:CYS:HG	1.82	0.80
1:B:130:ARG:HD2	1:B:237:GLN:HE21	1.46	0.80
1:A:248:ALA:CB	1:A:264:SER:CB	2.54	0.80
1:A:95:LYS:HZ1	1:A:225:ALA:N	1.79	0.80
1:B:300:LEU:HD11	1:B:333:VAL:HG12	1.63	0.80
1:B:291:PHE:HB2	1:B:345:LYS:O	1.82	0.80
1:B:326:VAL:HG12	1:B:327:ALA:C	2.02	0.80
1:C:101:PRO:HG3	1:C:217:TYR:CD2	2.17	0.80
1:B:101:PRO:HD2	1:B:166:LEU:HD12	1.37	0.80
1:A:286:PHE:HA	1:A:351:ILE:HG21	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:95:LYS:NZ	1:B:225:ALA:H	1.80	0.79
1:C:296:PRO:HG3	1:C:337:THR:CG2	2.07	0.79
1:C:53:GLN:C	1:C:53:GLN:N	2.35	0.79
1:C:164:ASN:H	1:C:164:ASN:HD22	0.82	0.79
1:A:249:GLN:HB3	1:A:348:ALA:O	1.83	0.79
1:A:121:LYS:NZ	1:A:350:ARG:HH12	1.80	0.79
1:C:112:GLU:O	1:C:115:THR:HG22	1.81	0.79
1:C:153:ALA:CB	1:C:174:GLY:CA	2.35	0.79
1:C:199:ASP:HA	1:C:265:TRP:HE1	1.47	0.79
1:C:201:ILE:CG2	1:C:265:TRP:C	2.51	0.79
1:A:291:PHE:HB2	1:A:345:LYS:O	1.82	0.79
1:A:95:LYS:NZ	1:A:225:ALA:H	1.80	0.79
1:A:227:LEU:HD12	1:A:227:LEU:H	1.47	0.79
1:C:119:LEU:CD2	1:C:234:TYR:CZ	2.55	0.79
1:C:249:GLN:HB3	1:C:348:ALA:O	1.83	0.79
1:A:95:LYS:HZ2	1:A:221:ALA:HA	1.42	0.79
1:C:201:ILE:CD1	1:C:280:PHE:O	2.10	0.79
1:C:95:LYS:NZ	1:C:225:ALA:H	1.80	0.79
1:B:101:PRO:HG3	1:B:217:TYR:CD2	2.17	0.79
1:B:133:SER:HB3	1:B:235:THR:HG22	1.64	0.79
1:B:95:LYS:HZ1	1:B:225:ALA:N	1.80	0.79
1:A:315:ALA:CB	1:A:318:SER:H	1.94	0.79
1:A:133:SER:HB3	1:A:235:THR:HG22	1.64	0.79
1:C:293:GLU:O	1:C:317:GLY:CA	2.31	0.79
1:C:300:LEU:CD1	1:C:333:VAL:HG12	2.13	0.79
1:C:326:VAL:HG12	1:C:327:ALA:C	2.02	0.79
1:B:175:CYS:HB2	1:B:176:VAL:HB	1.65	0.79
1:A:248:ALA:HB2	1:A:264:SER:O	1.77	0.79
1:A:101:PRO:CG	1:A:166:LEU:HD12	2.10	0.79
1:C:133:SER:HB3	1:C:235:THR:HG22	1.64	0.79
1:C:95:LYS:HZ3	1:C:225:ALA:H	1.29	0.79
1:B:300:LEU:CD1	1:B:333:VAL:HG12	2.13	0.79
1:B:339:GLU:C	1:B:340:GLU:HA	2.04	0.79
1:A:107:VAL:O	1:A:115:THR:HG21	1.81	0.78
1:C:291:PHE:HB2	1:C:345:LYS:O	1.82	0.78
1:B:269:LYS:HG2	1:B:270:GLY:H	1.42	0.78
1:C:296:PRO:CD	1:C:337:THR:CG2	2.60	0.78
1:C:90:ILE:CD1	1:C:232:VAL:CG2	2.58	0.78
1:A:326:VAL:HG12	1:A:327:ALA:C	2.02	0.78
1:A:121:LYS:HZ2	1:A:350:ARG:HH12	1.30	0.78
1:A:134:LEU:O	1:A:134:LEU:HG	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:71:THR:HG21	1:C:87:SER:HG	0.95	0.78
1:C:179:VAL:HG11	1:C:181:TRP:HE1	1.49	0.78
1:C:286:PHE:HA	1:C:351:ILE:HG21	1.61	0.78
1:B:134:LEU:O	1:B:134:LEU:HG	1.83	0.78
1:B:169:LEU:HD23	1:B:169:LEU:C	2.04	0.78
1:B:227:LEU:H	1:B:227:LEU:HD12	1.47	0.78
1:A:293:GLU:O	1:A:317:GLY:CA	2.31	0.78
1:A:169:LEU:C	1:A:169:LEU:HD23	2.04	0.78
1:C:289:THR:O	1:C:290:LEU:HB3	1.83	0.78
1:C:249:GLN:O	1:C:348:ALA:N	2.17	0.78
1:B:289:THR:O	1:B:290:LEU:HB3	1.83	0.78
1:B:249:GLN:HB3	1:B:348:ALA:O	1.83	0.78
1:C:133:SER:N	1:C:235:THR:HG22	1.99	0.78
1:B:249:GLN:O	1:B:348:ALA:N	2.17	0.78
1:C:339:GLU:C	1:C:340:GLU:HA	2.04	0.78
1:C:204:PRO:HG2	1:C:328:GLU:HG2	0.80	0.78
1:B:236:VAL:HG12	1:B:238:LEU:HD12	1.66	0.78
1:A:130:ARG:HD2	1:A:237:GLN:HE21	1.46	0.78
1:B:293:GLU:O	1:B:317:GLY:CA	2.31	0.78
1:A:249:GLN:O	1:A:348:ALA:N	2.17	0.78
1:C:97:THR:HA	1:C:219:GLN:CA	2.14	0.78
1:C:179:VAL:CG2	1:C:180:PRO:CD	2.62	0.78
1:B:117:ASN:ND2	1:B:117:ASN:O	2.17	0.78
1:B:248:ALA:C	1:B:249:GLN:HB2	2.04	0.77
1:B:276:HIS:CG	1:B:277:ASP:H	2.03	0.77
1:A:117:ASN:ND2	1:A:117:ASN:O	2.17	0.77
1:B:135:ARG:HB2	1:B:185:ILE:HD11	1.67	0.77
1:A:300:LEU:CD1	1:A:333:VAL:HG12	2.13	0.77
1:A:109:ASN:HD21	1:A:197:VAL:HG23	1.50	0.77
1:A:149:LYS:HE2	1:A:151:ALA:HA	1.66	0.77
1:C:205:LYS:H	1:C:329:ARG:NH1	1.82	0.77
1:B:133:SER:N	1:B:235:THR:HG22	1.99	0.77
1:A:133:SER:N	1:A:235:THR:HG22	1.99	0.77
1:A:149:LYS:CB	1:A:217:TYR:CE1	2.60	0.77
1:A:296:PRO:CD	1:A:337:THR:CG2	2.60	0.77
1:B:204:PRO:C	1:B:205:LYS:HD2	2.05	0.77
1:C:124:ALA:O	1:C:244:SER:N	2.18	0.77
1:C:159:ALA:HB3	1:C:328:GLU:CG	2.11	0.77
1:C:204:PRO:C	1:C:205:LYS:HD2	2.05	0.77
1:C:86:GLY:CA	1:C:234:TYR:CE1	2.66	0.77
1:C:200:GLY:CA	1:C:265:TRP:CB	2.58	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:236:VAL:HG12	1:A:238:LEU:HD12	1.66	0.77
1:C:327:ALA:CB	1:C:331:GLN:CD	2.39	0.77
1:B:296:PRO:CD	1:B:337:THR:CG2	2.60	0.77
1:A:135:ARG:HB2	1:A:185:ILE:HD11	1.67	0.77
1:A:179:VAL:CG2	1:A:180:PRO:CD	2.62	0.77
1:A:339:GLU:C	1:A:340:GLU:HA	2.04	0.77
1:A:175:CYS:HB2	1:A:176:VAL:HB	1.65	0.77
1:C:169:LEU:C	1:C:169:LEU:HD23	2.04	0.77
1:B:95:LYS:HZ3	1:B:225:ALA:H	1.33	0.77
1:C:134:LEU:HG	1:C:134:LEU:O	1.83	0.76
1:C:163:PRO:CA	1:C:164:ASN:ND2	2.47	0.76
1:C:251:GLY:O	1:C:346:TRP:CZ3	2.38	0.76
1:B:185:ILE:HD12	1:B:186:LEU:CA	2.16	0.76
1:B:315:ALA:O	1:B:317:GLY:N	2.18	0.76
1:A:204:PRO:C	1:A:205:LYS:HD2	2.05	0.76
1:C:207:VAL:HG13	1:C:329:ARG:NH2	1.94	0.76
1:A:251:GLY:O	1:A:346:TRP:CZ3	2.38	0.76
1:C:97:THR:HA	1:C:218:GLY:O	1.85	0.76
1:B:97:THR:HA	1:B:219:GLN:CA	2.15	0.76
1:C:236:VAL:HG12	1:C:238:LEU:HD12	1.66	0.76
1:C:313:GLU:HB2	1:C:315:ALA:N	2.00	0.76
1:C:149:LYS:HE2	1:C:151:ALA:HA	1.66	0.76
1:B:156:ARG:O	1:B:158:ALA:N	2.18	0.76
1:A:156:ARG:O	1:A:158:ALA:N	2.18	0.76
1:A:179:VAL:HG11	1:A:181:TRP:HE1	1.49	0.76
1:A:289:THR:O	1:A:290:LEU:HB3	1.83	0.76
1:B:248:ALA:HB3	1:B:348:ALA:O	1.86	0.76
1:C:144:SER:C	1:C:146:THR:H	1.89	0.76
1:B:149:LYS:CB	1:B:217:TYR:CE1	2.60	0.76
1:B:109:ASN:HD21	1:B:197:VAL:HG23	1.50	0.76
1:A:313:GLU:HB2	1:A:315:ALA:N	2.00	0.76
1:C:156:ARG:O	1:C:158:ALA:N	2.18	0.76
1:C:175:CYS:HB2	1:C:176:VAL:HB	1.65	0.76
1:B:163:PRO:CA	1:B:164:ASN:ND2	2.47	0.76
1:A:97:THR:HA	1:A:218:GLY:O	1.85	0.76
1:C:117:ASN:O	1:C:117:ASN:ND2	2.17	0.76
1:A:163:PRO:CA	1:A:164:ASN:ND2	2.47	0.76
1:B:149:LYS:HE2	1:B:151:ALA:HA	1.66	0.76
1:A:276:HIS:CG	1:A:277:ASP:H	2.03	0.76
1:A:300:LEU:CD1	1:A:333:VAL:CG1	2.64	0.76
1:A:97:THR:HA	1:A:219:GLN:CA	2.14	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:135:ARG:HB2	1:C:185:ILE:HD11	1.67	0.76
1:A:315:ALA:O	1:A:317:GLY:N	2.18	0.76
1:C:248:ALA:CB	1:C:287:SER:O	2.32	0.76
1:A:185:ILE:HD12	1:A:186:LEU:CA	2.16	0.76
1:C:138:TYR:O	1:C:139:SER:C	2.25	0.76
1:C:149:LYS:HB3	1:C:217:TYR:CD1	2.20	0.76
1:C:314:ALA:O	1:C:315:ALA:CB	2.34	0.76
1:C:59:SER:C	1:C:61:PRO:HD3	2.06	0.76
1:C:95:LYS:HZ1	1:C:225:ALA:N	1.83	0.76
1:B:310:VAL:HA	1:B:321:TRP:O	1.86	0.76
1:A:314:ALA:O	1:A:315:ALA:CB	2.34	0.76
1:A:95:LYS:HZ3	1:A:225:ALA:H	1.34	0.75
1:C:276:HIS:CG	1:C:277:ASP:H	2.03	0.75
1:C:109:ASN:HD21	1:C:197:VAL:HG23	1.50	0.75
1:C:279:HIS:CA	1:C:280:PHE:N	2.50	0.75
1:C:301:GLU:O	1:C:333:VAL:CG1	2.34	0.75
1:C:83:THR:HG22	1:C:84:ARG:N	2.01	0.75
1:B:179:VAL:HG11	1:B:181:TRP:HE1	1.49	0.75
1:B:251:GLY:O	1:B:346:TRP:CZ3	2.39	0.75
1:B:313:GLU:HB2	1:B:315:ALA:N	2.00	0.75
1:A:83:THR:HG22	1:A:84:ARG:N	2.01	0.75
1:B:179:VAL:CG2	1:B:180:PRO:CD	2.62	0.75
1:B:300:LEU:CD1	1:B:333:VAL:CG1	2.64	0.75
1:C:306:SER:HB3	1:C:325:LYS:HB3	1.69	0.75
1:B:306:SER:HB3	1:B:325:LYS:HB3	1.69	0.75
1:C:115:THR:O	1:C:116:PHE:CG	2.40	0.75
1:C:136:PHE:CZ	1:C:212:LEU:HD22	2.22	0.75
1:C:300:LEU:CD1	1:C:333:VAL:CG1	2.64	0.75
1:A:136:PHE:CZ	1:A:212:LEU:HD22	2.22	0.75
1:C:199:ASP:C	1:C:265:TRP:NE1	2.40	0.75
1:C:288:LEU:CD1	1:C:290:LEU:HG	2.17	0.75
1:C:277:ASP:OD1	1:C:334:LYS:NZ	2.20	0.75
1:B:326:VAL:CG1	1:B:331:GLN:HG3	2.17	0.75
1:A:292:TYR:HB2	1:A:318:SER:O	1.86	0.75
1:C:315:ALA:O	1:C:317:GLY:N	2.18	0.75
1:B:138:TYR:CG	1:B:184:PHE:CZ	2.62	0.75
1:B:277:ASP:OD1	1:B:334:LYS:NZ	2.20	0.75
1:B:279:HIS:CA	1:B:280:PHE:N	2.50	0.74
1:A:279:HIS:CA	1:A:280:PHE:N	2.50	0.74
1:C:68:GLU:HG2	1:C:137:ARG:NH2	2.02	0.74
1:B:289:THR:O	1:B:290:LEU:CB	2.35	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:301:GLU:O	1:B:333:VAL:CG1	2.34	0.74
1:A:241:ARG:HD2	1:A:241:ARG:N	2.03	0.74
1:C:310:VAL:HA	1:C:321:TRP:O	1.86	0.74
1:A:277:ASP:OD1	1:A:334:LYS:NZ	2.20	0.74
1:B:271:THR:HG21	1:B:275:GLU:OE2	1.87	0.74
1:B:97:THR:HA	1:B:218:GLY:O	1.85	0.74
1:B:241:ARG:HD2	1:B:241:ARG:N	2.03	0.74
1:A:133:SER:CB	1:A:235:THR:HG22	2.17	0.74
1:C:136:PHE:CD1	1:C:232:VAL:HG22	2.23	0.74
1:C:271:THR:HG21	1:C:275:GLU:OE2	1.87	0.74
1:A:126:TYR:CA	1:A:242:THR:CG2	2.64	0.74
1:B:136:PHE:CZ	1:B:212:LEU:HD22	2.22	0.74
1:B:292:TYR:HB2	1:B:318:SER:O	1.86	0.74
1:B:314:ALA:O	1:B:315:ALA:CB	2.34	0.74
1:C:292:TYR:HB2	1:C:318:SER:O	1.86	0.74
1:B:138:TYR:O	1:B:139:SER:C	2.24	0.74
1:A:310:VAL:C	1:A:311:LEU:HD12	2.08	0.74
1:C:174:GLY:O	1:C:175:CYS:SG	2.45	0.74
1:C:75:VAL:CB	1:C:75:VAL:N	2.51	0.74
1:A:310:VAL:HA	1:A:321:TRP:O	1.86	0.74
1:A:313:GLU:HG3	1:A:318:SER:HB3	1.69	0.74
1:A:326:VAL:CG1	1:A:331:GLN:HG3	2.17	0.74
1:A:154:PHE:HD1	1:A:155:ASP:H	0.75	0.74
1:C:85:SER:CA	1:C:234:TYR:O	2.36	0.74
1:B:133:SER:CB	1:B:235:THR:HG22	2.17	0.74
1:B:83:THR:HG22	1:B:84:ARG:N	2.01	0.74
1:A:124:ALA:O	1:A:244:SER:N	2.18	0.74
1:A:135:ARG:HB3	1:A:186:LEU:O	1.88	0.74
1:C:109:ASN:HA	1:C:129:TYR:OH	1.88	0.74
1:C:197:VAL:HG22	1:C:350:ARG:NH2	2.01	0.74
1:B:130:ARG:HD2	1:B:237:GLN:HB3	1.64	0.74
1:B:149:LYS:HB3	1:B:217:TYR:CD1	2.20	0.74
1:B:174:GLY:O	1:B:175:CYS:SG	2.45	0.74
1:C:76:SER:N	1:C:76:SER:HA	2.01	0.74
1:A:248:ALA:HB2	1:A:265:TRP:CA	2.13	0.74
1:A:130:ARG:HD2	1:A:237:GLN:HB3	1.63	0.73
1:A:138:TYR:O	1:A:139:SER:C	2.24	0.73
1:A:174:GLY:O	1:A:175:CYS:SG	2.45	0.73
1:A:149:LYS:HB3	1:A:217:TYR:CD1	2.20	0.73
1:A:94:LYS:O	1:A:95:LYS:O	2.06	0.73
1:C:71:THR:OG1	1:C:87:SER:HB2	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:288:LEU:CD1	1:B:290:LEU:HG	2.18	0.73
1:C:78:ALA:C	1:C:80:ASP:N	2.32	0.73
1:A:288:LEU:CD1	1:A:290:LEU:HG	2.17	0.73
1:A:136:PHE:CD1	1:A:232:VAL:HG22	2.23	0.73
1:B:126:TYR:CA	1:B:242:THR:CG2	2.64	0.73
1:C:76:SER:OG	1:C:76:SER:C	2.26	0.73
1:A:271:THR:HG21	1:A:275:GLU:OE2	1.87	0.73
1:A:86:GLY:CA	1:A:234:TYR:CE1	2.66	0.73
1:B:154:PHE:HD1	1:B:155:ASP:H	0.75	0.73
1:C:326:VAL:CG1	1:C:331:GLN:HG3	2.17	0.73
1:B:149:LYS:HD3	1:B:217:TYR:CE1	2.23	0.73
1:B:136:PHE:CD1	1:B:232:VAL:HG22	2.23	0.73
1:B:94:LYS:O	1:B:95:LYS:O	2.06	0.73
1:C:149:LYS:HE2	1:C:151:ALA:CA	2.19	0.73
1:C:154:PHE:CE1	1:C:155:ASP:O	2.41	0.73
1:C:283:THR:OG1	1:C:329:ARG:HG2	1.89	0.73
1:C:94:LYS:O	1:C:95:LYS:O	2.06	0.73
1:B:115:THR:O	1:B:116:PHE:CG	2.40	0.73
1:C:133:SER:CB	1:C:235:THR:HG22	2.17	0.73
1:C:185:ILE:HD12	1:C:186:LEU:CA	2.16	0.73
1:A:253:PHE:CD2	1:A:346:TRP:HZ3	2.07	0.73
1:C:297:VAL:O	1:C:298:SER:OG	2.07	0.73
1:A:149:LYS:HD3	1:A:217:TYR:CE1	2.24	0.73
1:B:283:THR:OG1	1:B:329:ARG:HG2	1.89	0.73
1:C:241:ARG:HD2	1:C:241:ARG:N	2.03	0.73
1:A:306:SER:HB3	1:A:325:LYS:HB3	1.69	0.73
1:C:208:ASP:N	1:C:329:ARG:HH21	1.85	0.73
1:C:310:VAL:C	1:C:311:LEU:HD12	2.08	0.73
1:C:90:ILE:CD1	1:C:232:VAL:HG23	2.19	0.73
1:B:135:ARG:HB3	1:B:186:LEU:O	1.88	0.73
1:A:109:ASN:HA	1:A:129:TYR:OH	1.88	0.73
1:C:135:ARG:HB3	1:C:186:LEU:O	1.88	0.73
1:B:138:TYR:HH	1:B:227:LEU:HB3	1.52	0.73
1:A:101:PRO:C	1:A:102:LYS:CG	2.42	0.73
1:A:127:GLU:O	1:A:128:LYS:HB2	1.89	0.73
1:C:205:LYS:N	1:C:329:ARG:CZ	2.51	0.73
1:B:144:SER:C	1:B:146:THR:H	1.89	0.73
1:A:90:ILE:CD1	1:A:232:VAL:HG23	2.19	0.72
1:C:149:LYS:HD3	1:C:217:TYR:CE1	2.24	0.72
1:A:288:LEU:CG	1:A:289:THR:N	2.50	0.72
1:B:241:ARG:H	1:B:241:ARG:HD2	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:313:GLU:HG3	1:C:318:SER:HB3	1.69	0.72
1:B:127:GLU:O	1:B:128:LYS:HB2	1.89	0.72
1:A:252:ASP:OD2	1:A:345:LYS:CE	2.37	0.72
1:A:120:ILE:CD1	1:A:329:ARG:NH2	2.53	0.72
1:A:149:LYS:HE2	1:A:151:ALA:CA	2.19	0.72
1:B:109:ASN:HA	1:B:129:TYR:OH	1.88	0.72
1:B:85:SER:CA	1:B:234:TYR:O	2.36	0.72
1:B:310:VAL:C	1:B:311:LEU:HD12	2.08	0.72
1:A:115:THR:O	1:A:116:PHE:CG	2.40	0.72
1:B:90:ILE:CD1	1:B:232:VAL:HG23	2.19	0.72
1:A:301:GLU:O	1:A:333:VAL:CG1	2.34	0.72
1:A:241:ARG:H	1:A:241:ARG:HD2	1.54	0.72
1:A:144:SER:C	1:A:146:THR:H	1.89	0.72
1:B:113:PRO:HB2	1:B:283:THR:O	1.88	0.72
1:B:124:ALA:O	1:B:244:SER:N	2.18	0.72
1:B:253:PHE:CD2	1:B:346:TRP:HZ3	2.07	0.72
1:B:308:PHE:HE2	1:B:310:VAL:CG2	1.92	0.72
1:A:326:VAL:HG13	1:A:331:GLN:CG	2.20	0.72
1:A:283:THR:OG1	1:A:329:ARG:HG2	1.89	0.72
1:C:126:TYR:CA	1:C:242:THR:CG2	2.64	0.72
1:C:201:ILE:HD11	1:C:280:PHE:O	1.88	0.72
1:C:200:GLY:O	1:C:282:GLY:CA	2.38	0.72
1:B:132:THR:HG22	1:B:235:THR:O	1.89	0.72
1:C:241:ARG:HD2	1:C:241:ARG:H	1.54	0.72
1:B:179:VAL:HG22	1:B:180:PRO:CD	2.19	0.72
1:B:267:LYS:O	1:B:279:HIS:HB2	1.90	0.72
1:A:339:GLU:CA	1:A:340:GLU:N	2.53	0.72
1:B:339:GLU:CA	1:B:340:GLU:N	2.53	0.72
1:A:95:LYS:HZ2	1:A:221:ALA:CA	2.01	0.72
1:C:200:GLY:O	1:C:282:GLY:HA3	1.89	0.72
1:C:339:GLU:CA	1:C:340:GLU:N	2.53	0.72
1:A:169:LEU:O	1:A:169:LEU:HD23	1.89	0.72
1:C:253:PHE:CD2	1:C:346:TRP:HZ3	2.07	0.72
1:B:149:LYS:HE2	1:B:151:ALA:CA	2.19	0.72
1:A:179:VAL:HG22	1:A:180:PRO:CD	2.19	0.72
1:A:132:THR:HG22	1:A:235:THR:O	1.89	0.72
1:C:206:LEU:H	1:C:329:ARG:HH12	1.37	0.72
1:C:288:LEU:CG	1:C:289:THR:N	2.50	0.72
1:C:295:ALA:CB	1:C:315:ALA:N	2.53	0.72
1:C:326:VAL:HG13	1:C:331:GLN:CG	2.20	0.72
1:C:208:ASP:N	1:C:329:ARG:NH2	2.38	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:138:TYR:CG	1:C:184:PHE:CZ	2.62	0.71
1:C:149:LYS:CB	1:C:217:TYR:CE1	2.60	0.71
1:C:308:PHE:CD2	1:C:310:VAL:HG23	2.25	0.71
1:B:112:GLU:HG3	1:B:329:ARG:HH22	1.53	0.71
1:C:55:VAL:CG2	1:C:56:THR:H	2.03	0.71
1:C:132:THR:HG22	1:C:235:THR:O	1.89	0.71
1:C:208:ASP:H	1:C:329:ARG:NH2	1.87	0.71
1:C:290:LEU:HD22	1:C:346:TRP:CB	2.20	0.71
1:B:308:PHE:CD2	1:B:310:VAL:HG23	2.25	0.71
1:B:326:VAL:HG13	1:B:327:ALA:H	1.54	0.71
1:B:179:VAL:HG21	1:B:181:TRP:HD1	1.55	0.71
1:B:326:VAL:HG13	1:B:331:GLN:CG	2.20	0.71
1:A:308:PHE:CD2	1:A:310:VAL:HG23	2.25	0.71
1:A:297:VAL:O	1:A:298:SER:OG	2.07	0.71
1:A:242:THR:HG23	1:A:243:GLY:N	2.05	0.71
1:C:112:GLU:HA	1:C:284:GLY:CA	2.19	0.71
1:C:267:LYS:O	1:C:279:HIS:HB2	1.90	0.71
1:B:242:THR:HG23	1:B:243:GLY:N	2.05	0.71
1:B:252:ASP:OD2	1:B:345:LYS:CE	2.37	0.71
1:C:127:GLU:O	1:C:128:LYS:HB2	1.89	0.71
1:B:297:VAL:O	1:B:298:SER:OG	2.07	0.71
1:C:252:ASP:OD2	1:C:345:LYS:CE	2.37	0.71
1:B:179:VAL:CG2	1:B:181:TRP:HD1	2.03	0.71
1:B:242:THR:HG23	1:B:243:GLY:H	1.56	0.71
1:B:276:HIS:ND1	1:B:277:ASP:N	2.38	0.71
1:A:238:LEU:HD12	1:A:238:LEU:N	2.05	0.71
1:C:238:LEU:N	1:C:238:LEU:HD12	2.05	0.71
1:C:276:HIS:ND1	1:C:277:ASP:N	2.38	0.71
1:B:169:LEU:HD23	1:B:169:LEU:O	1.90	0.71
1:B:295:ALA:CB	1:B:315:ALA:N	2.53	0.71
1:C:56:THR:HG23	1:C:57:ARG:H	1.56	0.71
1:C:179:VAL:CG2	1:C:181:TRP:HD1	2.03	0.71
1:C:286:PHE:HA	1:C:350:ARG:O	1.91	0.71
1:B:238:LEU:HD12	1:B:238:LEU:N	2.05	0.71
1:A:295:ALA:CB	1:A:315:ALA:N	2.53	0.71
1:A:179:VAL:CG2	1:A:181:TRP:HD1	2.03	0.71
1:C:169:LEU:HD23	1:C:169:LEU:O	1.90	0.71
1:A:267:LYS:O	1:A:279:HIS:HB2	1.90	0.71
1:C:236:VAL:HG12	1:C:237:GLN:N	2.05	0.71
1:C:200:GLY:CA	1:C:265:TRP:CG	2.58	0.71
1:B:124:ALA:HB1	1:B:245:THR:CG2	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:124:ALA:HB1	1:A:245:THR:CG2	2.20	0.70
1:C:116:PHE:O	1:C:120:ILE:HG22	1.90	0.70
1:C:179:VAL:HG22	1:C:180:PRO:CD	2.19	0.70
1:C:242:THR:HG23	1:C:243:GLY:N	2.05	0.70
1:B:236:VAL:HG12	1:B:237:GLN:N	2.05	0.70
1:A:252:ASP:OD1	1:A:253:PHE:N	2.24	0.70
1:B:130:ARG:HD2	1:B:237:GLN:NE2	2.06	0.70
1:A:167:ALA:O	1:A:171:ASN:CG	2.30	0.70
1:C:130:ARG:HD2	1:C:237:GLN:NE2	2.06	0.70
1:B:101:PRO:CG	1:B:217:TYR:CD2	2.75	0.70
1:B:86:GLY:CA	1:B:234:TYR:CE1	2.66	0.70
1:C:137:ARG:O	1:C:230:VAL:HG13	1.91	0.70
1:B:286:PHE:HA	1:B:350:ARG:O	1.91	0.70
1:B:288:LEU:CG	1:B:289:THR:N	2.50	0.70
1:A:130:ARG:HD2	1:A:237:GLN:NE2	2.06	0.70
1:C:242:THR:HG23	1:C:243:GLY:H	1.56	0.70
1:A:85:SER:CA	1:A:234:TYR:O	2.36	0.70
1:A:236:VAL:HG12	1:A:237:GLN:N	2.05	0.70
1:C:149:LYS:NZ	1:C:170:TYR:CE1	2.52	0.70
1:A:242:THR:HG23	1:A:243:GLY:H	1.56	0.70
1:C:124:ALA:HB1	1:C:245:THR:CG2	2.20	0.70
1:C:313:GLU:CG	1:C:318:SER:OG	2.40	0.70
1:A:138:TYR:CG	1:A:184:PHE:CZ	2.62	0.70
1:A:149:LYS:NZ	1:A:170:TYR:CE1	2.52	0.70
1:C:167:ALA:O	1:C:171:ASN:CG	2.30	0.70
1:C:156:ARG:O	1:C:210:GLY:N	2.25	0.70
1:C:101:PRO:CG	1:C:217:TYR:CD2	2.75	0.70
1:B:154:PHE:CE1	1:B:155:ASP:O	2.41	0.70
1:B:167:ALA:O	1:B:171:ASN:CG	2.30	0.70
1:B:313:GLU:CG	1:B:318:SER:OG	2.40	0.70
1:B:326:VAL:HG13	1:B:331:GLN:HG3	1.74	0.70
1:A:338:THR:OG1	1:A:339:GLU:CB	2.37	0.70
1:A:129:TYR:HA	1:A:237:GLN:O	1.92	0.70
1:A:103:TYR:HE1	1:A:169:LEU:HD12	1.56	0.70
1:C:55:VAL:CG2	1:C:56:THR:N	2.52	0.70
1:C:159:ALA:HB1	1:C:328:GLU:OE1	1.90	0.69
1:C:200:GLY:H	1:C:265:TRP:HD1	1.36	0.69
1:A:170:TYR:OH	1:A:217:TYR:OH	2.10	0.69
1:B:156:ARG:O	1:B:210:GLY:N	2.25	0.69
1:A:276:HIS:ND1	1:A:277:ASP:N	2.38	0.69
1:A:295:ALA:H	1:A:316:ALA:HA	0.69	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:156:ARG:O	1:A:210:GLY:N	2.25	0.69
1:A:101:PRO:CG	1:A:217:TYR:CD2	2.75	0.69
1:C:244:SER:O	1:C:245:THR:CB	2.41	0.69
1:B:122:GLU:O	1:B:122:GLU:HG2	1.93	0.69
1:B:137:ARG:O	1:B:230:VAL:HG13	1.92	0.69
1:A:313:GLU:CG	1:A:318:SER:OG	2.40	0.69
1:A:154:PHE:C	1:A:154:PHE:CD1	2.62	0.69
1:A:179:VAL:HG21	1:A:181:TRP:HD1	1.56	0.69
1:A:137:ARG:O	1:A:230:VAL:HG13	1.91	0.69
1:C:103:TYR:HE1	1:C:169:LEU:HD12	1.56	0.69
1:C:179:VAL:HG21	1:C:181:TRP:HD1	1.55	0.69
1:B:101:PRO:C	1:B:102:LYS:CG	2.42	0.69
1:B:129:TYR:HA	1:B:237:GLN:O	1.92	0.69
1:B:252:ASP:OD1	1:B:253:PHE:N	2.24	0.69
1:C:66:TYR:CZ	1:C:183:GLY:HA3	2.27	0.69
1:A:244:SER:O	1:A:245:THR:CB	2.41	0.69
1:C:173:GLU:HG3	1:C:174:GLY:N	2.08	0.69
1:C:252:ASP:OD1	1:C:253:PHE:N	2.24	0.69
1:C:326:VAL:HG13	1:C:331:GLN:HG3	1.74	0.69
1:B:170:TYR:OH	1:B:217:TYR:OH	2.11	0.69
1:C:72:GLN:NE2	1:C:72:GLN:HA	2.04	0.69
1:C:101:PRO:C	1:C:102:LYS:CG	2.42	0.69
1:C:129:TYR:HA	1:C:237:GLN:O	1.92	0.69
1:C:326:VAL:HG13	1:C:327:ALA:H	1.54	0.69
1:C:333:VAL:C	1:C:334:LYS:HD3	2.12	0.69
1:B:95:LYS:HZ2	1:B:221:ALA:CA	2.01	0.69
1:A:290:LEU:HD22	1:A:346:TRP:CB	2.20	0.69
1:A:286:PHE:HA	1:A:350:ARG:O	1.91	0.69
1:B:103:TYR:HE1	1:B:169:LEU:HD12	1.56	0.69
1:B:244:SER:O	1:B:245:THR:CB	2.41	0.69
1:C:75:VAL:C	1:C:75:VAL:CB	2.59	0.69
1:A:289:THR:O	1:A:290:LEU:CB	2.35	0.69
1:C:327:ALA:HB3	1:C:331:GLN:NE2	2.07	0.69
1:C:278:CYS:CA	1:C:333:VAL:O	2.41	0.69
1:B:155:ASP:CB	1:B:172:ILE:HD11	2.23	0.69
1:B:290:LEU:HD12	1:B:290:LEU:O	1.93	0.69
1:B:112:GLU:CG	1:B:329:ARG:HH22	2.05	0.69
1:C:80:ASP:HA	1:C:241:ARG:HH22	0.70	0.69
1:C:338:THR:OG1	1:C:339:GLU:CB	2.37	0.69
1:C:200:GLY:CA	1:C:265:TRP:CA	2.70	0.69
1:C:289:THR:O	1:C:290:LEU:CB	2.35	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:333:VAL:C	1:B:334:LYS:HD3	2.12	0.69
1:A:290:LEU:O	1:A:290:LEU:HD12	1.93	0.69
1:C:122:GLU:O	1:C:122:GLU:HG2	1.93	0.69
1:B:169:LEU:HD22	1:B:170:TYR:HD1	1.58	0.69
1:B:173:GLU:HG3	1:B:174:GLY:N	2.08	0.69
1:B:338:THR:OG1	1:B:339:GLU:CB	2.37	0.69
1:C:143:PRO:O	1:C:146:THR:HG22	1.93	0.68
1:C:154:PHE:HD1	1:C:155:ASP:H	0.75	0.68
1:C:155:ASP:CB	1:C:172:ILE:HD11	2.23	0.68
1:C:159:ALA:C	1:C:328:GLU:OE1	2.31	0.68
1:A:154:PHE:CE1	1:A:155:ASP:O	2.41	0.68
1:C:151:ALA:CA	1:C:177:SER:HB2	2.17	0.68
1:B:327:ALA:HB3	1:B:331:GLN:NE2	2.08	0.68
1:A:258:ASP:CG	1:A:259:GLY:H	1.95	0.68
1:A:173:GLU:HG3	1:A:174:GLY:N	2.08	0.68
1:B:170:TYR:CZ	1:B:217:TYR:OH	2.45	0.68
1:A:122:GLU:HG2	1:A:122:GLU:O	1.92	0.68
1:C:170:TYR:OH	1:C:217:TYR:OH	2.11	0.68
1:B:124:ALA:O	1:B:243:GLY:HA2	1.93	0.68
1:C:251:GLY:O	1:C:346:TRP:CH2	2.47	0.68
1:A:124:ALA:O	1:A:243:GLY:HA2	1.93	0.68
1:A:170:TYR:CZ	1:A:217:TYR:OH	2.45	0.68
1:C:127:GLU:O	1:C:128:LYS:CB	2.41	0.68
1:C:154:PHE:CD1	1:C:154:PHE:C	2.62	0.68
1:A:251:GLY:O	1:A:346:TRP:CH2	2.47	0.68
1:A:230:VAL:HG12	1:A:231:ARG:N	2.09	0.68
1:C:230:VAL:HG12	1:C:231:ARG:N	2.09	0.68
1:B:258:ASP:CG	1:B:259:GLY:H	1.95	0.68
1:C:83:THR:O	1:C:84:ARG:HG2	1.94	0.68
1:B:313:GLU:HG3	1:B:318:SER:HB3	1.69	0.68
1:A:278:CYS:CA	1:A:333:VAL:O	2.41	0.68
1:A:254:ALA:N	1:A:257:LYS:O	2.27	0.68
1:C:149:LYS:HD3	1:C:217:TYR:CZ	2.29	0.68
1:C:159:ALA:HB3	1:C:328:GLU:CD	2.11	0.68
1:C:124:ALA:O	1:C:243:GLY:HA2	1.93	0.68
1:B:143:PRO:O	1:B:146:THR:HG22	1.92	0.68
1:C:295:ALA:H	1:C:316:ALA:HA	0.69	0.68
1:B:230:VAL:HG12	1:B:231:ARG:N	2.09	0.68
1:B:251:GLY:O	1:B:346:TRP:CH2	2.47	0.68
1:A:261:ARG:HG3	1:A:261:ARG:O	1.94	0.68
1:A:127:GLU:O	1:A:128:LYS:CB	2.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:290:LEU:O	1:C:290:LEU:HD12	1.93	0.67
1:B:251:GLY:O	1:B:346:TRP:CZ2	2.48	0.67
1:A:333:VAL:C	1:A:334:LYS:HD3	2.12	0.67
1:A:169:LEU:HD22	1:A:170:TYR:HD1	1.58	0.67
1:C:95:LYS:HZ2	1:C:221:ALA:CA	2.03	0.67
1:B:127:GLU:O	1:B:128:LYS:CB	2.42	0.67
1:B:289:THR:C	1:B:290:LEU:HG	2.14	0.67
1:A:269:LYS:HE2	1:A:270:GLY:O	1.94	0.67
1:C:169:LEU:HD22	1:C:170:TYR:HD1	1.58	0.67
1:C:258:ASP:CG	1:C:259:GLY:H	1.95	0.67
1:C:251:GLY:O	1:C:346:TRP:CZ2	2.47	0.67
1:A:289:THR:C	1:A:290:LEU:HG	2.14	0.67
1:B:340:GLU:O	1:B:342:PRO:CD	2.43	0.67
1:B:104:THR:O	1:B:105:THR:C	2.33	0.67
1:B:107:VAL:HB	1:B:329:ARG:HH12	1.58	0.67
1:B:253:PHE:CE2	1:B:346:TRP:CZ3	2.83	0.67
1:B:278:CYS:CA	1:B:333:VAL:O	2.41	0.67
1:C:340:GLU:O	1:C:342:PRO:CD	2.43	0.67
1:A:83:THR:O	1:A:84:ARG:HG2	1.94	0.67
1:C:104:THR:O	1:C:105:THR:C	2.33	0.67
1:B:149:LYS:HD3	1:B:217:TYR:CZ	2.29	0.67
1:B:286:PHE:CA	1:B:351:ILE:HG21	2.25	0.67
1:A:327:ALA:HB3	1:A:331:GLN:NE2	2.08	0.67
1:A:326:VAL:HG13	1:A:331:GLN:HG3	1.74	0.67
1:A:143:PRO:O	1:A:146:THR:HG22	1.93	0.67
1:C:135:ARG:HG3	1:C:233:GLU:CB	2.23	0.67
1:C:269:LYS:HE2	1:C:270:GLY:O	1.94	0.67
1:C:95:LYS:O	1:C:96:ASN:HB2	1.95	0.67
1:A:340:GLU:O	1:A:342:PRO:CD	2.43	0.67
1:B:254:ALA:N	1:B:257:LYS:O	2.27	0.67
1:A:96:ASN:ND2	1:A:102:LYS:HD3	2.10	0.67
1:A:126:TYR:O	1:A:242:THR:HG21	1.95	0.67
1:C:163:PRO:HA	1:C:164:ASN:ND2	2.10	0.67
1:B:269:LYS:HE2	1:B:270:GLY:O	1.94	0.67
1:B:83:THR:O	1:B:84:ARG:HG2	1.94	0.67
1:A:149:LYS:HD3	1:A:217:TYR:CZ	2.29	0.66
1:C:185:ILE:HD13	1:C:186:LEU:H	1.53	0.66
1:C:253:PHE:CE2	1:C:346:TRP:CZ3	2.83	0.66
1:A:121:LYS:HD3	1:A:350:ARG:HH22	1.61	0.66
1:A:104:THR:O	1:A:105:THR:C	2.33	0.66
1:A:136:PHE:HE1	1:A:232:VAL:HG22	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:253:PHE:CE2	1:A:346:TRP:CZ3	2.83	0.66
1:A:136:PHE:CE1	1:A:212:LEU:HD22	2.31	0.66
1:B:96:ASN:ND2	1:B:102:LYS:HD3	2.10	0.66
1:C:254:ALA:N	1:C:257:LYS:O	2.27	0.66
1:B:109:ASN:HB2	1:B:208:ASP:HB3	1.77	0.66
1:B:136:PHE:CE1	1:B:212:LEU:HD22	2.31	0.66
1:B:290:LEU:HD22	1:B:346:TRP:CB	2.20	0.66
1:A:300:LEU:CG	1:A:308:PHE:CZ	2.78	0.66
1:C:126:TYR:O	1:C:242:THR:HG21	1.95	0.66
1:C:130:ARG:HD2	1:C:237:GLN:HB3	1.64	0.66
1:C:170:TYR:CZ	1:C:217:TYR:OH	2.45	0.66
1:B:116:PHE:O	1:B:120:ILE:HG22	1.89	0.66
1:A:268:THR:O	1:A:268:THR:HG23	1.96	0.66
1:C:64:LEU:HD12	1:C:65:ALA:H	1.60	0.66
1:C:113:PRO:C	1:C:115:THR:N	2.43	0.66
1:C:199:ASP:HA	1:C:265:TRP:NE1	2.09	0.66
1:C:136:PHE:CE1	1:C:212:LEU:HD22	2.31	0.66
1:C:286:PHE:CA	1:C:351:ILE:HG21	2.25	0.66
1:C:308:PHE:HE2	1:C:310:VAL:CG2	1.92	0.66
1:B:163:PRO:HA	1:B:164:ASN:ND2	2.10	0.66
1:C:261:ARG:O	1:C:261:ARG:HG3	1.94	0.66
1:A:109:ASN:HB2	1:A:208:ASP:HB3	1.77	0.66
1:C:289:THR:C	1:C:290:LEU:HG	2.14	0.66
1:B:261:ARG:HG3	1:B:261:ARG:O	1.94	0.66
1:B:236:VAL:HG12	1:B:238:LEU:CD1	2.26	0.66
1:B:124:ALA:CB	1:B:245:THR:CG2	2.74	0.66
1:A:326:VAL:HG13	1:A:327:ALA:H	1.54	0.66
1:A:297:VAL:CB	1:A:336:VAL:O	2.36	0.66
1:A:116:PHE:O	1:A:120:ILE:HG22	1.90	0.66
1:A:124:ALA:CB	1:A:245:THR:CG2	2.74	0.66
1:C:236:VAL:HG12	1:C:238:LEU:CD1	2.26	0.66
1:C:268:THR:HG23	1:C:268:THR:O	1.96	0.66
1:B:126:TYR:O	1:B:242:THR:HG21	1.95	0.66
1:A:251:GLY:O	1:A:346:TRP:CZ2	2.47	0.66
1:A:95:LYS:O	1:A:96:ASN:HB2	1.95	0.65
1:C:124:ALA:CB	1:C:245:THR:CG2	2.74	0.65
1:A:249:GLN:HB2	1:A:265:TRP:CZ3	2.30	0.65
1:B:312:GLY:HA3	1:B:320:GLN:HG2	1.78	0.65
1:C:297:VAL:CB	1:C:336:VAL:O	2.36	0.65
1:A:163:PRO:HA	1:A:164:ASN:ND2	2.10	0.65
1:C:68:GLU:CG	1:C:137:ARG:NH2	2.59	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:295:ALA:H	1:B:316:ALA:HA	0.69	0.65
1:B:82:ILE:O	1:B:83:THR:N	2.29	0.65
1:C:326:VAL:HG12	1:C:327:ALA:CA	2.27	0.65
1:A:286:PHE:CA	1:A:351:ILE:HG21	2.25	0.65
1:C:118:GLN:O	1:C:119:LEU:HB2	1.97	0.65
1:C:138:TYR:HH	1:C:227:LEU:HB3	1.61	0.65
1:B:113:PRO:C	1:B:115:THR:N	2.43	0.65
1:B:119:LEU:CD2	1:B:234:TYR:HE2	2.10	0.65
1:A:300:LEU:C	1:A:308:PHE:HZ	2.00	0.65
1:B:249:GLN:HB2	1:B:265:TRP:CZ3	2.31	0.65
1:C:66:TYR:OH	1:C:183:GLY:HA3	1.97	0.65
1:C:120:ILE:HD12	1:C:351:ILE:C	2.17	0.65
1:B:149:LYS:NZ	1:B:170:TYR:CE1	2.52	0.65
1:B:130:ARG:NH1	1:B:237:GLN:HA	2.10	0.65
1:A:121:LYS:NZ	1:A:350:ARG:NH1	2.44	0.65
1:A:205:LYS:HD2	1:A:205:LYS:N	2.12	0.65
1:B:205:LYS:HD2	1:B:205:LYS:N	2.12	0.65
1:A:236:VAL:HG12	1:A:238:LEU:CD1	2.26	0.65
1:C:306:SER:O	1:C:307:ASP:O	2.14	0.65
1:A:119:LEU:CD2	1:A:234:TYR:HE2	2.10	0.65
1:A:130:ARG:HD2	1:A:237:GLN:CG	2.27	0.65
1:C:200:GLY:HA2	1:C:265:TRP:CA	2.26	0.65
1:C:96:ASN:ND2	1:C:102:LYS:HD3	2.10	0.65
1:B:268:THR:HG23	1:B:268:THR:O	1.96	0.65
1:C:309:SER:O	1:C:321:TRP:O	2.15	0.65
1:C:109:ASN:HB2	1:C:208:ASP:HB3	1.77	0.65
1:C:153:ALA:HA	1:C:186:LEU:HD11	1.78	0.65
1:B:300:LEU:CG	1:B:308:PHE:CZ	2.78	0.65
1:B:309:SER:O	1:B:321:TRP:O	2.15	0.65
1:B:296:PRO:HG3	1:B:337:THR:CB	2.27	0.65
1:A:312:GLY:HA3	1:A:320:GLN:HG2	1.78	0.65
1:C:207:VAL:HG13	1:C:208:ASP:CG	2.18	0.64
1:C:300:LEU:C	1:C:308:PHE:HZ	2.00	0.64
1:B:196:PHE:O	1:B:207:VAL:HG23	1.97	0.64
1:A:326:VAL:HG12	1:A:327:ALA:CA	2.27	0.64
1:B:306:SER:O	1:B:307:ASP:O	2.14	0.64
1:A:306:SER:O	1:A:307:ASP:O	2.14	0.64
1:C:166:LEU:O	1:C:167:ALA:C	2.36	0.64
1:C:300:LEU:CG	1:C:308:PHE:CZ	2.78	0.64
1:C:306:SER:HB3	1:C:325:LYS:CB	2.27	0.64
1:C:125:GLN:C	1:C:242:THR:CG2	2.66	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:68:GLU:OE2	1:C:139:SER:OG	2.14	0.64
1:B:95:LYS:O	1:B:96:ASN:HB2	1.95	0.64
1:A:253:PHE:CD2	1:A:346:TRP:CZ3	2.85	0.64
1:A:274:TRP:NE1	1:A:340:GLU:OE1	2.31	0.64
1:A:118:GLN:O	1:A:119:LEU:HB2	1.97	0.64
1:A:125:GLN:C	1:A:242:THR:CG2	2.66	0.64
1:B:118:GLN:O	1:B:119:LEU:HB2	1.96	0.64
1:B:125:GLN:C	1:B:242:THR:CG2	2.66	0.64
1:B:166:LEU:O	1:B:167:ALA:C	2.35	0.64
1:B:153:ALA:HA	1:B:186:LEU:HD11	1.78	0.64
1:B:253:PHE:CD2	1:B:346:TRP:CZ3	2.85	0.64
1:B:297:VAL:CB	1:B:336:VAL:O	2.36	0.64
1:A:153:ALA:HA	1:A:186:LEU:HD11	1.78	0.64
1:C:196:PHE:O	1:C:207:VAL:HG23	1.97	0.64
1:B:154:PHE:CD1	1:B:154:PHE:C	2.62	0.64
1:B:172:ILE:O	1:B:173:GLU:C	2.36	0.64
1:B:300:LEU:C	1:B:308:PHE:HZ	2.00	0.64
1:A:196:PHE:O	1:A:207:VAL:HG23	1.97	0.64
1:A:135:ARG:HG3	1:A:233:GLU:CB	2.23	0.64
1:A:166:LEU:O	1:A:167:ALA:C	2.36	0.64
1:A:172:ILE:O	1:A:173:GLU:C	2.36	0.64
1:C:112:GLU:OE2	1:C:283:THR:HG22	1.97	0.64
1:B:136:PHE:HE1	1:B:232:VAL:HG22	1.59	0.64
1:B:309:SER:O	1:B:322:ALA:CB	2.46	0.64
1:A:82:ILE:O	1:A:83:THR:N	2.29	0.64
1:C:154:PHE:CZ	1:C:156:ARG:HA	2.33	0.64
1:C:152:LEU:CD2	1:C:186:LEU:HD13	2.25	0.64
1:C:309:SER:O	1:C:322:ALA:CB	2.46	0.64
1:B:306:SER:HB3	1:B:325:LYS:CB	2.27	0.64
1:A:152:LEU:CD2	1:A:186:LEU:HD13	2.25	0.64
1:C:138:TYR:O	1:C:139:SER:O	2.15	0.64
1:C:172:ILE:O	1:C:173:GLU:C	2.36	0.64
1:C:327:ALA:HB2	1:C:331:GLN:OE1	1.96	0.64
1:C:253:PHE:CD2	1:C:346:TRP:CZ3	2.85	0.64
1:B:207:VAL:HG13	1:B:208:ASP:CG	2.18	0.64
1:C:163:PRO:HG3	1:C:168:SER:HB3	1.80	0.64
1:C:249:GLN:O	1:C:347:GLN:HA	1.98	0.64
1:B:248:ALA:HB3	1:B:249:GLN:CB	2.28	0.64
1:A:138:TYR:O	1:A:139:SER:O	2.15	0.63
1:A:155:ASP:CB	1:A:172:ILE:HD11	2.23	0.63
1:C:61:PRO:HD2	1:C:181:TRP:CZ3	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:199:ASP:CA	1:C:265:TRP:NE1	2.61	0.63
1:C:205:LYS:HD2	1:C:205:LYS:N	2.12	0.63
1:C:206:LEU:O	1:C:206:LEU:CD1	2.45	0.63
1:C:249:GLN:HB2	1:C:265:TRP:CZ3	2.30	0.63
1:A:151:ALA:CA	1:A:177:SER:HB2	2.17	0.63
1:C:136:PHE:HE1	1:C:232:VAL:HG22	1.59	0.63
1:C:246:SER:O	1:C:349:LEU:CA	2.42	0.63
1:B:138:TYR:O	1:B:139:SER:O	2.15	0.63
1:B:155:ASP:O	1:B:156:ARG:C	2.36	0.63
1:C:312:GLY:HA3	1:C:320:GLN:HG2	1.78	0.63
1:A:154:PHE:CE1	1:A:156:ARG:N	2.66	0.63
1:B:152:LEU:CD2	1:B:186:LEU:HD13	2.25	0.63
1:A:309:SER:O	1:A:321:TRP:O	2.15	0.63
1:A:306:SER:HB3	1:A:325:LYS:CB	2.27	0.63
1:A:137:ARG:O	1:A:230:VAL:HG22	1.98	0.63
1:C:125:GLN:C	1:C:242:THR:HG22	2.19	0.63
1:B:154:PHE:CE1	1:B:156:ARG:N	2.66	0.63
1:B:156:ARG:O	1:B:209:PHE:C	2.37	0.63
1:A:249:GLN:O	1:A:347:GLN:HA	1.98	0.63
1:B:249:GLN:O	1:B:347:GLN:HA	1.98	0.63
1:A:135:ARG:CB	1:A:186:LEU:O	2.47	0.63
1:A:154:PHE:CZ	1:A:156:ARG:HA	2.33	0.63
1:A:155:ASP:O	1:A:156:ARG:C	2.36	0.63
1:C:83:THR:CG2	1:C:84:ARG:H	2.08	0.63
1:C:86:GLY:N	1:C:234:TYR:O	2.31	0.63
1:B:135:ARG:CB	1:B:186:LEU:O	2.47	0.63
1:B:109:ASN:ND2	1:B:197:VAL:HG23	2.14	0.63
1:B:292:TYR:CB	1:B:318:SER:O	2.47	0.63
1:A:248:ALA:C	1:A:264:SER:HB3	2.19	0.63
1:B:206:LEU:CD1	1:B:206:LEU:O	2.45	0.63
1:A:207:VAL:HG13	1:A:208:ASP:CG	2.18	0.63
1:C:68:GLU:CD	1:C:137:ARG:NH2	2.51	0.63
1:C:207:VAL:CG1	1:C:329:ARG:HE	2.12	0.63
1:B:154:PHE:CZ	1:B:156:ARG:HA	2.33	0.63
1:A:292:TYR:CB	1:A:318:SER:O	2.47	0.63
1:A:309:SER:O	1:A:322:ALA:CB	2.46	0.63
1:A:156:ARG:O	1:A:209:PHE:C	2.37	0.63
1:C:154:PHE:CE1	1:C:156:ARG:N	2.66	0.63
1:C:170:TYR:C	1:C:171:ASN:HD22	2.02	0.63
1:B:137:ARG:O	1:B:230:VAL:HG22	1.98	0.63
1:B:185:ILE:HD13	1:B:186:LEU:H	1.53	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:86:GLY:N	1:B:234:TYR:O	2.31	0.63
1:C:156:ARG:O	1:C:209:PHE:C	2.37	0.63
1:C:119:LEU:CD2	1:C:234:TYR:HE2	2.10	0.63
1:C:82:ILE:O	1:C:83:THR:N	2.29	0.63
1:B:326:VAL:HG12	1:B:327:ALA:CA	2.27	0.63
1:A:206:LEU:O	1:A:206:LEU:CD1	2.45	0.63
1:A:125:GLN:C	1:A:242:THR:HG22	2.19	0.62
1:C:135:ARG:CB	1:C:186:LEU:O	2.47	0.62
1:B:166:LEU:O	1:B:168:SER:N	2.32	0.62
1:B:274:TRP:NE1	1:B:340:GLU:OE1	2.31	0.62
1:B:296:PRO:HG3	1:B:337:THR:HB	1.81	0.62
1:A:166:LEU:O	1:A:168:SER:N	2.32	0.62
1:A:83:THR:CG2	1:A:84:ARG:H	2.08	0.62
1:A:86:GLY:N	1:A:234:TYR:O	2.31	0.62
1:B:83:THR:HG23	1:B:236:VAL:O	2.00	0.62
1:C:68:GLU:CG	1:C:137:ARG:HH22	2.12	0.62
1:C:155:ASP:O	1:C:156:ARG:C	2.36	0.62
1:C:166:LEU:O	1:C:168:SER:N	2.32	0.62
1:C:137:ARG:O	1:C:230:VAL:HG22	1.98	0.62
1:B:163:PRO:HG3	1:B:168:SER:HB3	1.80	0.62
1:C:296:PRO:HG3	1:C:337:THR:HB	1.81	0.62
1:C:206:LEU:N	1:C:329:ARG:HH12	1.96	0.62
1:C:231:ARG:HG3	1:C:232:VAL:H	1.63	0.62
1:C:130:ARG:NH1	1:C:237:GLN:HA	2.10	0.62
1:C:82:ILE:HG23	1:C:83:THR:N	2.15	0.62
1:B:83:THR:CG2	1:B:84:ARG:H	2.08	0.62
1:C:55:VAL:HG22	1:C:56:THR:H	1.60	0.62
1:A:83:THR:HG23	1:A:236:VAL:O	2.00	0.62
1:C:292:TYR:CB	1:C:318:SER:O	2.47	0.62
1:B:213:ILE:O	1:B:214:MET:HG3	2.00	0.62
1:A:170:TYR:C	1:A:171:ASN:HD22	2.02	0.62
1:B:135:ARG:HG3	1:B:233:GLU:CB	2.23	0.62
1:B:82:ILE:HG23	1:B:83:THR:N	2.15	0.62
1:A:136:PHE:CE2	1:A:212:LEU:HD11	2.35	0.62
1:C:136:PHE:CE2	1:C:212:LEU:HD11	2.35	0.62
1:C:157:ASP:O	1:C:157:ASP:OD1	2.18	0.62
1:A:124:ALA:HB1	1:A:244:SER:O	2.00	0.62
1:C:159:ALA:HB3	1:C:328:GLU:HG3	1.72	0.62
1:C:109:ASN:ND2	1:C:197:VAL:HG23	2.14	0.62
1:B:248:ALA:C	1:B:263:VAL:O	2.38	0.62
1:A:157:ASP:OD1	1:A:157:ASP:O	2.18	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:109:ASN:ND2	1:A:197:VAL:HG23	2.14	0.62
1:A:163:PRO:HG3	1:A:168:SER:HB3	1.80	0.62
1:C:112:GLU:O	1:C:114:GLY:N	2.33	0.62
1:A:248:ALA:HB1	1:A:264:SER:HG	1.55	0.62
1:A:308:PHE:HE2	1:A:310:VAL:CG2	1.92	0.62
1:A:112:GLU:O	1:A:114:GLY:N	2.33	0.62
1:C:186:LEU:HD23	1:C:186:LEU:C	2.20	0.62
1:B:136:PHE:CE2	1:B:212:LEU:HD11	2.35	0.62
1:C:201:ILE:HG21	1:C:265:TRP:C	2.20	0.61
1:C:236:VAL:CG1	1:C:237:GLN:N	2.62	0.61
1:C:124:ALA:HB1	1:C:244:SER:O	2.00	0.61
1:C:83:THR:HG23	1:C:236:VAL:O	2.00	0.61
1:B:112:GLU:O	1:B:114:GLY:N	2.33	0.61
1:A:124:ALA:HB2	1:A:245:THR:HG21	1.82	0.61
1:C:98:ASP:OD1	1:C:99:THR:N	2.33	0.61
1:B:188:VAL:HG23	1:B:188:VAL:O	1.99	0.61
1:B:236:VAL:CG1	1:B:237:GLN:N	2.62	0.61
1:B:237:GLN:C	1:B:238:LEU:HD12	2.21	0.61
1:B:124:ALA:HB2	1:B:245:THR:HG21	1.82	0.61
1:B:300:LEU:C	1:B:308:PHE:CZ	2.74	0.61
1:A:120:ILE:CD1	1:A:329:ARG:HH21	2.13	0.61
1:A:185:ILE:HD13	1:A:186:LEU:H	1.53	0.61
1:B:125:GLN:C	1:B:242:THR:HG22	2.19	0.61
1:B:124:ALA:HB1	1:B:244:SER:O	2.00	0.61
1:B:157:ASP:O	1:B:157:ASP:OD1	2.18	0.61
1:A:130:ARG:NH1	1:A:237:GLN:HA	2.10	0.61
1:A:236:VAL:CG1	1:A:237:GLN:N	2.62	0.61
1:A:82:ILE:HG23	1:A:83:THR:N	2.15	0.61
1:A:83:THR:HG23	1:A:130:ARG:NH1	2.15	0.61
1:C:111:SER:N	1:C:350:ARG:NH2	2.45	0.61
1:B:130:ARG:HB3	1:B:237:GLN:H	1.66	0.61
1:A:136:PHE:CE2	1:A:212:LEU:CD1	2.84	0.61
1:A:237:GLN:C	1:A:238:LEU:HD12	2.21	0.61
1:B:169:LEU:HD22	1:B:170:TYR:CD1	2.36	0.61
1:B:186:LEU:C	1:B:186:LEU:HD23	2.20	0.61
1:B:134:LEU:HD23	1:B:188:VAL:CG2	2.31	0.61
1:A:296:PRO:HG3	1:A:337:THR:HB	1.81	0.61
1:A:130:ARG:HB3	1:A:237:GLN:H	1.66	0.61
1:A:144:SER:C	1:A:146:THR:N	2.54	0.61
1:C:188:VAL:O	1:C:188:VAL:HG23	1.99	0.61
1:C:200:GLY:C	1:C:282:GLY:HA2	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:300:LEU:C	1:C:308:PHE:CZ	2.74	0.61
1:A:300:LEU:C	1:A:308:PHE:CZ	2.74	0.61
1:C:213:ILE:O	1:C:214:MET:HG3	2.00	0.61
1:A:188:VAL:HG23	1:A:188:VAL:O	1.99	0.61
1:C:136:PHE:CE2	1:C:212:LEU:CD1	2.84	0.61
1:C:237:GLN:C	1:C:238:LEU:HD12	2.21	0.61
1:B:144:SER:C	1:B:146:THR:N	2.54	0.61
1:C:85:SER:C	1:C:234:TYR:CE1	2.74	0.61
1:B:156:ARG:NH1	1:B:173:GLU:OE1	2.34	0.61
1:B:83:THR:HG23	1:B:130:ARG:NH1	2.15	0.61
1:C:130:ARG:HD2	1:C:237:GLN:CG	2.27	0.61
1:C:264:SER:C	1:C:265:TRP:HA	2.21	0.61
1:C:120:ILE:HD12	1:C:351:ILE:O	2.01	0.61
1:B:170:TYR:C	1:B:171:ASN:HD22	2.02	0.61
1:B:311:LEU:N	1:B:311:LEU:HD12	2.16	0.61
1:A:291:PHE:HB2	1:A:346:TRP:CB	2.29	0.61
1:A:213:ILE:O	1:A:214:MET:HG3	2.00	0.61
1:A:198:ALA:HB1	1:A:200:GLY:C	2.14	0.61
1:A:85:SER:C	1:A:234:TYR:CE1	2.74	0.61
1:C:286:PHE:CD2	1:C:350:ARG:HA	2.35	0.61
1:A:290:LEU:CD1	1:A:290:LEU:C	2.69	0.61
1:A:311:LEU:HD12	1:A:311:LEU:N	2.16	0.61
1:C:274:TRP:NE1	1:C:340:GLU:OE1	2.31	0.61
1:C:95:LYS:NZ	1:C:221:ALA:CB	2.64	0.60
1:B:136:PHE:CE2	1:B:212:LEU:CD1	2.84	0.60
1:B:290:LEU:C	1:B:290:LEU:CD1	2.69	0.60
1:A:286:PHE:CD2	1:A:350:ARG:HA	2.35	0.60
1:C:306:SER:O	1:C:307:ASP:C	2.40	0.60
1:A:105:THR:HG1	1:A:211:LYS:HD3	0.78	0.60
1:B:231:ARG:HG3	1:B:232:VAL:H	1.63	0.60
1:B:314:ALA:O	1:B:315:ALA:HB2	2.01	0.60
1:B:85:SER:C	1:B:234:TYR:CE1	2.74	0.60
1:A:338:THR:HG1	1:A:339:GLU:HB2	1.64	0.60
1:B:306:SER:O	1:B:307:ASP:C	2.40	0.60
1:C:124:ALA:HB2	1:C:245:THR:HG21	1.82	0.60
1:C:105:THR:HG1	1:C:211:LYS:HD3	0.79	0.60
1:C:291:PHE:C	1:C:292:TYR:CA	2.67	0.60
1:C:311:LEU:N	1:C:311:LEU:HD12	2.16	0.60
1:C:109:ASN:ND2	1:C:350:ARG:HH21	1.99	0.60
1:C:314:ALA:O	1:C:315:ALA:HB2	2.01	0.60
1:B:129:TYR:CB	1:B:237:GLN:O	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:129:TYR:CB	1:A:237:GLN:O	2.49	0.60
1:A:217:TYR:CD1	1:A:217:TYR:N	2.69	0.60
1:C:156:ARG:NH1	1:C:173:GLU:OE1	2.34	0.60
1:C:201:ILE:CG2	1:C:265:TRP:CA	2.80	0.60
1:C:290:LEU:CD1	1:C:290:LEU:C	2.69	0.60
1:B:136:PHE:CD2	1:B:212:LEU:HD21	2.36	0.60
1:B:130:ARG:CB	1:B:237:GLN:CB	2.68	0.60
1:B:286:PHE:CD2	1:B:350:ARG:HA	2.35	0.60
1:A:306:SER:O	1:A:307:ASP:C	2.40	0.60
1:A:156:ARG:NH1	1:A:173:GLU:OE1	2.34	0.60
1:A:186:LEU:HD23	1:A:186:LEU:C	2.20	0.60
1:A:120:ILE:O	1:A:120:ILE:CG1	2.50	0.60
1:A:134:LEU:HD23	1:A:188:VAL:CG2	2.31	0.60
1:C:200:GLY:HA3	1:C:201:ILE:HG22	1.83	0.60
1:B:130:ARG:HD2	1:B:237:GLN:CG	2.27	0.60
1:B:327:ALA:HB2	1:B:331:GLN:OE1	1.96	0.60
1:A:269:LYS:CG	1:A:270:GLY:N	2.58	0.60
1:A:136:PHE:CD2	1:A:212:LEU:HD21	2.37	0.60
1:C:169:LEU:HD22	1:C:170:TYR:CD1	2.36	0.60
1:C:134:LEU:HD23	1:C:188:VAL:CG2	2.31	0.60
1:C:130:ARG:CB	1:C:237:GLN:CB	2.68	0.60
1:B:120:ILE:O	1:B:120:ILE:CG1	2.50	0.60
1:B:179:VAL:HG21	1:B:181:TRP:CD1	2.36	0.60
1:B:217:TYR:CD1	1:B:217:TYR:N	2.69	0.60
1:B:95:LYS:NZ	1:B:221:ALA:CB	2.64	0.60
1:A:179:VAL:HG21	1:A:181:TRP:CD1	2.37	0.60
1:C:83:THR:HG23	1:C:130:ARG:NH1	2.15	0.60
1:C:144:SER:C	1:C:146:THR:N	2.54	0.60
1:B:149:LYS:CD	1:B:177:SER:OG	2.50	0.60
1:A:342:PRO:C	1:A:343:LYS:HD3	2.23	0.60
1:A:169:LEU:HD22	1:A:170:TYR:CD1	2.36	0.60
1:A:95:LYS:NZ	1:A:221:ALA:CB	2.64	0.60
1:C:136:PHE:CD2	1:C:212:LEU:HD21	2.37	0.59
1:B:98:ASP:OD1	1:B:99:THR:N	2.33	0.59
1:A:314:ALA:O	1:A:315:ALA:HB2	2.01	0.59
1:C:138:TYR:HD2	1:C:184:PHE:CE1	2.16	0.59
1:B:163:PRO:CB	1:B:164:ASN:HD22	2.15	0.59
1:C:163:PRO:HB2	1:C:165:ASP:H	1.67	0.59
1:C:129:TYR:CB	1:C:237:GLN:O	2.49	0.59
1:C:277:ASP:HA	1:C:334:LYS:CE	2.32	0.59
1:A:277:ASP:HA	1:A:334:LYS:CE	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:97:THR:CA	1:C:218:GLY:O	2.50	0.59
1:A:163:PRO:CB	1:A:164:ASN:HD22	2.15	0.59
1:A:130:ARG:CB	1:A:237:GLN:CB	2.68	0.59
1:A:327:ALA:HB2	1:A:331:GLN:OE1	1.96	0.59
1:A:97:THR:CA	1:A:218:GLY:O	2.50	0.59
1:A:163:PRO:HB2	1:A:165:ASP:H	1.66	0.59
1:C:203:ASP:O	1:C:205:LYS:N	2.35	0.59
1:C:206:LEU:N	1:C:329:ARG:NH1	2.48	0.59
1:B:163:PRO:HB2	1:B:165:ASP:H	1.67	0.59
1:A:203:ASP:O	1:A:205:LYS:N	2.34	0.59
1:A:231:ARG:HG3	1:A:232:VAL:H	1.63	0.59
1:A:248:ALA:N	1:A:264:SER:O	2.36	0.59
1:B:97:THR:CA	1:B:218:GLY:O	2.50	0.59
1:A:307:ASP:O	1:A:323:GLY:O	2.21	0.59
1:A:138:TYR:HE2	1:A:180:PRO:HA	1.68	0.59
1:A:207:VAL:HG13	1:A:208:ASP:OD2	2.03	0.59
1:A:98:ASP:OD1	1:A:99:THR:N	2.33	0.59
1:C:230:VAL:HG12	1:C:231:ARG:H	1.68	0.59
1:B:277:ASP:HA	1:B:334:LYS:HZ2	1.68	0.59
1:B:336:VAL:HG13	1:B:336:VAL:O	2.03	0.59
1:C:120:ILE:CG1	1:C:120:ILE:O	2.50	0.59
1:C:246:SER:O	1:C:349:LEU:C	2.40	0.59
1:B:169:LEU:CD2	1:B:169:LEU:C	2.70	0.59
1:B:207:VAL:HG13	1:B:208:ASP:OD2	2.03	0.59
1:B:300:LEU:HB3	1:B:310:VAL:HG21	1.84	0.59
1:A:200:GLY:HA3	1:A:201:ILE:HG22	1.84	0.59
1:C:169:LEU:CD2	1:C:169:LEU:C	2.70	0.59
1:B:300:LEU:HD11	1:B:333:VAL:HG11	1.85	0.59
1:B:307:ASP:O	1:B:323:GLY:O	2.21	0.59
1:C:163:PRO:CB	1:C:164:ASN:HD22	2.15	0.59
1:B:291:PHE:C	1:B:292:TYR:CA	2.67	0.58
1:A:265:TRP:CH2	1:A:348:ALA:O	2.52	0.58
1:C:307:ASP:O	1:C:323:GLY:O	2.21	0.58
1:B:179:VAL:HG13	1:B:181:TRP:CD1	2.38	0.58
1:B:200:GLY:HA3	1:B:201:ILE:HG22	1.83	0.58
1:B:113:PRO:CB	1:B:283:THR:O	2.51	0.58
1:B:203:ASP:O	1:B:205:LYS:N	2.34	0.58
1:C:130:ARG:HB3	1:C:237:GLN:H	1.66	0.58
1:A:179:VAL:HG13	1:A:181:TRP:CD1	2.38	0.58
1:C:202:SER:HA	1:C:281:LEU:HG	1.85	0.58
1:B:264:SER:C	1:B:265:TRP:HA	2.22	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:336:VAL:O	1:A:336:VAL:HG13	2.03	0.58
1:A:179:VAL:CG1	1:A:181:TRP:HD1	2.14	0.58
1:A:230:VAL:HG12	1:A:231:ARG:H	1.68	0.58
1:C:95:LYS:HZ1	1:C:221:ALA:CA	2.14	0.58
1:B:172:ILE:HG23	1:B:172:ILE:O	2.03	0.58
1:B:230:VAL:HG12	1:B:231:ARG:H	1.68	0.58
1:A:300:LEU:HB3	1:A:310:VAL:HG21	1.84	0.58
1:C:213:ILE:C	1:C:214:MET:HG3	2.24	0.58
1:A:169:LEU:C	1:A:169:LEU:CD2	2.70	0.58
1:A:172:ILE:O	1:A:172:ILE:HG23	2.03	0.58
1:C:112:GLU:O	1:C:113:PRO:C	2.41	0.58
1:C:179:VAL:HG21	1:C:181:TRP:CD1	2.36	0.58
1:C:113:PRO:HD2	1:C:285:ASN:N	2.19	0.58
1:C:291:PHE:HB2	1:C:346:TRP:CB	2.29	0.58
1:C:300:LEU:HB3	1:C:310:VAL:HG21	1.84	0.58
1:B:138:TYR:HE2	1:B:180:PRO:HA	1.68	0.58
1:B:227:LEU:H	1:B:227:LEU:CD1	2.17	0.58
1:B:277:ASP:HA	1:B:334:LYS:CE	2.32	0.58
1:B:315:ALA:HA	1:B:318:SER:HB2	1.84	0.58
1:C:172:ILE:HG23	1:C:172:ILE:O	2.03	0.58
1:C:207:VAL:HG13	1:C:208:ASP:OD2	2.03	0.58
1:C:217:TYR:CD1	1:C:217:TYR:N	2.69	0.58
1:C:296:PRO:HG3	1:C:337:THR:CB	2.27	0.58
1:B:342:PRO:C	1:B:343:LYS:HD3	2.23	0.58
1:C:138:TYR:HE2	1:C:180:PRO:HA	1.68	0.58
1:C:185:ILE:HD12	1:C:186:LEU:H	0.65	0.58
1:A:296:PRO:HG3	1:A:337:THR:CB	2.27	0.58
1:C:197:VAL:HG21	1:C:350:ARG:NH2	1.95	0.58
1:C:315:ALA:HA	1:C:318:SER:HB2	1.84	0.58
1:B:179:VAL:CG1	1:B:181:TRP:HD1	2.14	0.58
1:B:105:THR:HG1	1:B:211:LYS:HD3	0.75	0.58
1:B:83:THR:HA	1:B:236:VAL:O	2.04	0.58
1:C:342:PRO:C	1:C:343:LYS:HD3	2.23	0.58
1:C:113:PRO:HD2	1:C:285:ASN:O	2.04	0.57
1:B:112:GLU:O	1:B:113:PRO:C	2.41	0.57
1:B:280:PHE:HD2	1:B:331:GLN:O	1.86	0.57
1:C:340:GLU:OE1	1:C:340:GLU:HA	2.04	0.57
1:A:136:PHE:HB3	1:A:230:VAL:HG11	1.87	0.57
1:C:302:ASN:CB	1:C:333:VAL:HG22	2.34	0.57
1:C:336:VAL:HG13	1:C:336:VAL:O	2.03	0.57
1:A:340:GLU:OE1	1:A:340:GLU:HA	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:83:THR:HA	1:A:236:VAL:O	2.04	0.57
1:C:163:PRO:C	1:C:164:ASN:ND2	2.44	0.57
1:C:198:ALA:HB1	1:C:200:GLY:C	2.14	0.57
1:B:302:ASN:CB	1:B:333:VAL:HG22	2.34	0.57
1:A:250:ILE:HA	1:A:347:GLN:HA	1.87	0.57
1:C:83:THR:HA	1:C:236:VAL:O	2.03	0.57
1:C:61:PRO:HD2	1:C:181:TRP:HZ3	1.67	0.57
1:B:138:TYR:HD2	1:B:184:PHE:CE1	2.16	0.57
1:B:313:GLU:CG	1:B:318:SER:HB2	2.19	0.57
1:A:138:TYR:HA	1:A:230:VAL:HG22	1.86	0.57
1:C:136:PHE:HB3	1:C:230:VAL:HG11	1.86	0.57
1:B:151:ALA:CA	1:B:177:SER:HB2	2.17	0.57
1:B:238:LEU:CD1	1:B:238:LEU:N	2.67	0.57
1:A:315:ALA:HA	1:A:318:SER:HB2	1.84	0.57
1:C:238:LEU:N	1:C:238:LEU:CD1	2.67	0.57
1:A:313:GLU:HG3	1:A:318:SER:OG	2.01	0.57
1:B:340:GLU:OE1	1:B:340:GLU:HA	2.04	0.57
1:A:95:LYS:HZ2	1:A:221:ALA:CB	2.17	0.57
1:C:197:VAL:CG2	1:C:350:ARG:CZ	2.80	0.57
1:C:280:PHE:HD2	1:C:331:GLN:O	1.86	0.57
1:B:291:PHE:HB2	1:B:346:TRP:CB	2.29	0.57
1:C:78:ALA:O	1:C:80:ASP:CA	2.52	0.57
1:A:227:LEU:CD1	1:A:227:LEU:H	2.17	0.57
1:C:250:ILE:HA	1:C:347:GLN:HA	1.87	0.57
1:C:197:VAL:HG21	1:C:350:ARG:HH12	1.69	0.57
1:B:136:PHE:HB3	1:B:230:VAL:HG11	1.87	0.57
1:A:258:ASP:CG	1:A:259:GLY:N	2.58	0.57
1:B:124:ALA:CB	1:B:245:THR:HG21	2.35	0.57
1:A:280:PHE:HD2	1:A:331:GLN:O	1.86	0.57
1:A:302:ASN:CB	1:A:333:VAL:HG22	2.34	0.57
1:A:124:ALA:CB	1:A:245:THR:HG21	2.35	0.57
1:A:95:LYS:HZ1	1:A:221:ALA:CA	2.16	0.57
1:C:152:LEU:CD1	1:C:184:PHE:HE2	2.18	0.57
1:B:149:LYS:CE	1:B:151:ALA:HA	2.35	0.57
1:B:302:ASN:HB2	1:B:333:VAL:HG22	1.87	0.57
1:A:149:LYS:CE	1:A:151:ALA:HA	2.35	0.56
1:C:82:ILE:CG2	1:C:238:LEU:HB2	2.32	0.56
1:C:302:ASN:HB2	1:C:333:VAL:HG22	1.87	0.56
1:B:290:LEU:HD12	1:B:290:LEU:C	2.26	0.56
1:A:290:LEU:C	1:A:290:LEU:HD12	2.26	0.56
1:C:154:PHE:CD1	1:C:155:ASP:C	2.78	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:265:TRP:CH2	1:C:348:ALA:O	2.52	0.56
1:B:152:LEU:HD12	1:B:184:PHE:HE2	1.70	0.56
1:B:86:GLY:N	1:B:234:TYR:CE1	2.74	0.56
1:A:112:GLU:O	1:A:113:PRO:C	2.41	0.56
1:A:154:PHE:CD1	1:A:155:ASP:C	2.78	0.56
1:A:138:TYR:HD2	1:A:184:PHE:CE1	2.16	0.56
1:C:138:TYR:HA	1:C:230:VAL:HG22	1.86	0.56
1:C:198:ALA:CA	1:C:200:GLY:O	2.54	0.56
1:B:120:ILE:O	1:B:120:ILE:HG13	2.05	0.56
1:B:285:ASN:HD22	1:B:286:PHE:N	2.03	0.56
1:B:95:LYS:HZ1	1:B:221:ALA:CA	2.16	0.56
1:A:238:LEU:CD1	1:A:238:LEU:N	2.67	0.56
1:B:154:PHE:CD1	1:B:155:ASP:C	2.78	0.56
1:B:300:LEU:HD12	1:B:333:VAL:CG1	2.36	0.56
1:C:77:THR:CG2	1:C:78:ALA:N	2.49	0.56
1:A:264:SER:C	1:A:265:TRP:HA	2.22	0.56
1:A:291:PHE:C	1:A:292:TYR:CA	2.67	0.56
1:B:250:ILE:HA	1:B:347:GLN:HA	1.87	0.56
1:C:285:ASN:HD22	1:C:286:PHE:N	2.04	0.56
1:C:208:ASP:H	1:C:329:ARG:HH21	1.46	0.56
1:B:138:TYR:HA	1:B:230:VAL:HG22	1.86	0.56
1:B:152:LEU:CD1	1:B:184:PHE:HE2	2.18	0.56
1:A:326:VAL:CG1	1:A:327:ALA:O	2.48	0.56
1:A:300:LEU:HD11	1:A:333:VAL:HG11	1.85	0.56
1:A:152:LEU:HD12	1:A:184:PHE:HE2	1.71	0.56
1:C:200:GLY:O	1:C:282:GLY:HA2	2.06	0.56
1:A:213:ILE:C	1:A:214:MET:HG3	2.24	0.56
1:B:95:LYS:HZ2	1:B:221:ALA:CB	2.18	0.56
1:A:145:THR:O	1:A:145:THR:CG2	2.54	0.56
1:A:152:LEU:CD1	1:A:184:PHE:HE2	2.18	0.56
1:A:82:ILE:CG2	1:A:238:LEU:HB2	2.32	0.56
1:C:152:LEU:HD12	1:C:184:PHE:HE2	1.70	0.56
1:A:300:LEU:CA	1:A:308:PHE:HZ	2.19	0.56
1:B:213:ILE:C	1:B:214:MET:HG3	2.24	0.56
1:C:162:PRO:C	1:C:163:PRO:O	2.42	0.56
1:B:162:PRO:C	1:B:163:PRO:O	2.42	0.56
1:B:198:ALA:HB1	1:B:200:GLY:C	2.14	0.56
1:A:302:ASN:HB2	1:A:333:VAL:HG22	1.87	0.56
1:A:120:ILE:O	1:A:120:ILE:HG13	2.05	0.55
1:A:174:GLY:C	1:A:175:CYS:HG	2.06	0.55
1:C:120:ILE:HG13	1:C:120:ILE:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:277:ASP:HA	1:C:334:LYS:NZ	2.21	0.55
1:C:289:THR:HG23	1:C:321:TRP:CZ3	2.41	0.55
1:C:277:ASP:HA	1:C:334:LYS:HZ2	1.71	0.55
1:B:104:THR:O	1:B:105:THR:O	2.24	0.55
1:A:113:PRO:C	1:A:115:THR:N	2.43	0.55
1:A:162:PRO:C	1:A:163:PRO:O	2.42	0.55
1:B:149:LYS:CD	1:B:170:TYR:HH	1.67	0.55
1:B:170:TYR:HE1	1:B:217:TYR:OH	1.86	0.55
1:B:326:VAL:CG1	1:B:327:ALA:O	2.48	0.55
1:A:274:TRP:CD1	1:A:339:GLU:C	2.80	0.55
1:B:145:THR:O	1:B:145:THR:CG2	2.54	0.55
1:C:145:THR:CG2	1:C:145:THR:O	2.54	0.55
1:C:124:ALA:CB	1:C:245:THR:HG21	2.35	0.55
1:C:300:LEU:HD11	1:C:333:VAL:HG11	1.85	0.55
1:C:71:THR:CG2	1:C:87:SER:CB	2.77	0.55
1:B:163:PRO:C	1:B:164:ASN:ND2	2.44	0.55
1:B:82:ILE:CG2	1:B:238:LEU:HB2	2.32	0.55
1:C:149:LYS:CE	1:C:151:ALA:HA	2.35	0.55
1:C:153:ALA:HB1	1:C:174:GLY:HA3	0.62	0.55
1:C:300:LEU:CA	1:C:308:PHE:HZ	2.19	0.55
1:B:277:ASP:HA	1:B:334:LYS:NZ	2.21	0.55
1:A:121:LYS:HZ3	1:A:350:ARG:NH1	2.03	0.55
1:A:116:PHE:HE2	1:A:234:TYR:CE2	2.24	0.55
1:A:170:TYR:HE1	1:A:217:TYR:OH	1.87	0.55
1:C:258:ASP:CG	1:C:259:GLY:N	2.58	0.55
1:A:289:THR:HG23	1:A:321:TRP:CZ3	2.41	0.55
1:B:274:TRP:CD1	1:B:339:GLU:HA	2.42	0.55
1:A:86:GLY:N	1:A:234:TYR:CE1	2.74	0.55
1:C:179:VAL:CG1	1:C:181:TRP:HD1	2.14	0.55
1:B:116:PHE:HE2	1:B:234:TYR:CE2	2.24	0.55
1:B:300:LEU:CA	1:B:308:PHE:HZ	2.19	0.55
1:C:104:THR:O	1:C:105:THR:O	2.24	0.55
1:C:116:PHE:HE2	1:C:234:TYR:CE2	2.24	0.55
1:C:149:LYS:CD	1:C:177:SER:OG	2.50	0.55
1:B:133:SER:HB3	1:B:235:THR:CG2	2.35	0.55
1:A:313:GLU:CG	1:A:318:SER:HB2	2.19	0.55
1:C:274:TRP:CD1	1:C:339:GLU:C	2.80	0.55
1:A:274:TRP:CD1	1:A:339:GLU:HA	2.42	0.55
1:C:227:LEU:H	1:C:227:LEU:CD1	2.17	0.55
1:C:291:PHE:CE1	1:C:335:MET:CE	2.90	0.55
1:C:96:ASN:C	1:C:98:ASP:N	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:126:TYR:C	1:B:242:THR:CG2	2.75	0.55
1:B:198:ALA:CA	1:B:200:GLY:O	2.54	0.55
1:C:297:VAL:HB	1:C:336:VAL:CG1	1.98	0.55
1:A:104:THR:O	1:A:105:THR:O	2.24	0.55
1:A:126:TYR:C	1:A:242:THR:CG2	2.75	0.55
1:C:197:VAL:HG22	1:C:198:ALA:H	1.72	0.55
1:C:201:ILE:CG2	1:C:264:SER:OG	2.55	0.55
1:C:300:LEU:CB	1:C:308:PHE:HZ	2.20	0.55
1:C:326:VAL:CG1	1:C:327:ALA:O	2.48	0.55
1:B:300:LEU:CB	1:B:308:PHE:HZ	2.20	0.55
1:A:291:PHE:CE1	1:A:335:MET:CE	2.90	0.55
1:A:300:LEU:HD12	1:A:333:VAL:CG1	2.36	0.55
1:A:154:PHE:CD1	1:A:155:ASP:CA	2.90	0.55
1:A:198:ALA:CA	1:A:200:GLY:O	2.54	0.55
1:C:100:GLU:O	1:C:101:PRO:O	2.25	0.55
1:C:290:LEU:C	1:C:290:LEU:HD12	2.26	0.55
1:B:304:ASP:CG	1:B:332:GLY:H	2.11	0.55
1:B:97:THR:OG1	1:B:97:THR:O	2.25	0.55
1:A:109:ASN:CA	1:A:129:TYR:OH	2.55	0.54
1:A:197:VAL:HG22	1:A:198:ALA:H	1.72	0.54
1:B:291:PHE:CE1	1:B:335:MET:CE	2.90	0.54
1:A:277:ASP:HA	1:A:334:LYS:NZ	2.21	0.54
1:A:163:PRO:C	1:A:164:ASN:ND2	2.44	0.54
1:C:113:PRO:HD2	1:C:285:ASN:H	1.72	0.54
1:B:197:VAL:HG22	1:B:198:ALA:N	2.23	0.54
1:B:350:ARG:O	1:B:351:ILE:CB	2.53	0.54
1:C:274:TRP:CD1	1:C:339:GLU:HA	2.42	0.54
1:B:341:GLN:O	1:B:343:LYS:HG2	2.07	0.54
1:A:197:VAL:HG22	1:A:198:ALA:N	2.23	0.54
1:C:191:ASP:OD1	1:C:209:PHE:CZ	2.61	0.54
1:C:156:ARG:O	1:C:209:PHE:O	2.26	0.54
1:C:113:PRO:HG3	1:C:351:ILE:HG13	1.90	0.54
1:A:300:LEU:CB	1:A:308:PHE:HZ	2.20	0.54
1:A:130:ARG:O	1:A:131:PHE:HB2	2.08	0.54
1:A:191:ASP:OD1	1:A:209:PHE:CZ	2.61	0.54
1:C:179:VAL:CG1	1:C:181:TRP:NE1	2.54	0.54
1:C:197:VAL:HG22	1:C:198:ALA:N	2.23	0.54
1:C:199:ASP:N	1:C:199:ASP:OD1	2.40	0.54
1:C:304:ASP:CG	1:C:332:GLY:H	2.11	0.54
1:C:86:GLY:N	1:C:234:TYR:CE1	2.74	0.54
1:B:191:ASP:OD1	1:B:209:PHE:CZ	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:274:TRP:CD1	1:B:339:GLU:C	2.80	0.54
1:C:306:SER:HB2	1:C:325:LYS:H	1.72	0.54
1:A:120:ILE:HD13	1:A:329:ARG:HH21	1.71	0.54
1:A:339:GLU:O	1:A:340:GLU:HA	2.08	0.54
1:A:149:LYS:CD	1:A:177:SER:OG	2.50	0.54
1:C:133:SER:HB3	1:C:235:THR:CG2	2.35	0.54
1:C:174:GLY:C	1:C:175:CYS:HG	2.04	0.54
1:B:258:ASP:CG	1:B:259:GLY:N	2.58	0.54
1:B:300:LEU:O	1:B:308:PHE:CZ	2.61	0.54
1:A:271:THR:CG2	1:A:275:GLU:OE2	2.56	0.54
1:A:306:SER:HB2	1:A:325:LYS:H	1.72	0.54
1:C:95:LYS:NZ	1:C:221:ALA:HB1	2.22	0.54
1:C:300:LEU:HD12	1:C:333:VAL:CG1	2.36	0.54
1:B:130:ARG:O	1:B:131:PHE:HB2	2.08	0.54
1:B:289:THR:HG23	1:B:321:TRP:CZ3	2.41	0.54
1:A:300:LEU:O	1:A:308:PHE:CZ	2.61	0.54
1:A:304:ASP:CG	1:A:332:GLY:H	2.11	0.54
1:B:306:SER:HB2	1:B:325:LYS:H	1.72	0.54
1:C:173:GLU:HG3	1:C:174:GLY:H	1.73	0.54
1:C:126:TYR:C	1:C:242:THR:CG2	2.75	0.54
1:B:153:ALA:HB1	1:B:174:GLY:HA3	0.62	0.54
1:B:248:ALA:O	1:B:263:VAL:O	2.25	0.54
1:C:213:ILE:O	1:C:214:MET:CG	2.56	0.54
1:A:156:ARG:O	1:A:209:PHE:O	2.26	0.54
1:A:153:ALA:HB1	1:A:174:GLY:HA3	0.62	0.54
1:C:85:SER:C	1:C:234:TYR:CD1	2.82	0.54
1:B:136:PHE:CZ	1:B:212:LEU:CD2	2.91	0.54
1:A:285:ASN:HD22	1:A:286:PHE:N	2.04	0.54
1:C:339:GLU:O	1:C:340:GLU:HA	2.08	0.54
1:A:100:GLU:O	1:A:101:PRO:O	2.25	0.53
1:C:231:ARG:CG	1:C:232:VAL:N	2.61	0.53
1:C:326:VAL:CG1	1:C:327:ALA:N	2.19	0.53
1:B:197:VAL:HG22	1:B:198:ALA:H	1.72	0.53
1:A:179:VAL:HG13	1:A:182:THR:HG22	1.90	0.53
1:C:313:GLU:HB2	1:C:314:ALA:C	2.29	0.53
1:B:213:ILE:O	1:B:214:MET:CG	2.56	0.53
1:A:213:ILE:O	1:A:214:MET:CG	2.56	0.53
1:A:136:PHE:CZ	1:A:212:LEU:CD2	2.91	0.53
1:B:154:PHE:CD1	1:B:155:ASP:CA	2.90	0.53
1:B:179:VAL:HG22	1:B:180:PRO:N	2.23	0.53
1:A:276:HIS:CG	1:A:277:ASP:N	2.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:341:GLN:O	1:C:343:LYS:HG2	2.08	0.53
1:C:244:SER:O	1:C:245:THR:HB	2.08	0.53
1:C:276:HIS:CG	1:C:277:ASP:N	2.74	0.53
1:B:95:LYS:NZ	1:B:221:ALA:HB1	2.22	0.53
1:A:248:ALA:CB	1:A:265:TRP:N	2.70	0.53
1:B:265:TRP:CH2	1:B:348:ALA:O	2.52	0.53
1:A:341:GLN:O	1:A:343:LYS:HG2	2.07	0.53
1:C:109:ASN:CA	1:C:129:TYR:OH	2.55	0.53
1:C:130:ARG:O	1:C:131:PHE:HB2	2.08	0.53
1:C:170:TYR:HE1	1:C:217:TYR:OH	1.87	0.53
1:C:95:LYS:HZ2	1:C:221:ALA:CB	2.21	0.53
1:C:269:LYS:HB3	1:C:277:ASP:OD2	2.09	0.53
1:B:109:ASN:CA	1:B:129:TYR:OH	2.55	0.53
1:B:156:ARG:O	1:B:209:PHE:O	2.26	0.53
1:B:293:GLU:O	1:B:317:GLY:HA2	2.09	0.53
1:C:142:SER:HB3	1:C:227:LEU:O	2.09	0.53
1:C:300:LEU:O	1:C:308:PHE:CZ	2.61	0.53
1:C:90:ILE:CG2	1:C:90:ILE:O	2.54	0.53
1:B:339:GLU:O	1:B:340:GLU:HA	2.08	0.53
1:A:84:ARG:HG3	1:A:119:LEU:HD11	1.91	0.53
1:A:179:VAL:HG22	1:A:180:PRO:N	2.23	0.53
1:A:154:PHE:CB	1:A:212:LEU:HD12	2.35	0.53
1:C:113:PRO:HG3	1:C:120:ILE:CD1	2.39	0.53
1:C:269:LYS:CG	1:C:270:GLY:N	2.58	0.53
1:B:142:SER:HB3	1:B:227:LEU:O	2.09	0.53
1:A:293:GLU:HA	1:A:317:GLY:HA2	1.91	0.53
1:C:271:THR:CG2	1:C:275:GLU:OE2	2.56	0.53
1:B:179:VAL:HG13	1:B:182:THR:HG22	1.90	0.53
1:B:339:GLU:O	1:B:340:GLU:OE1	2.27	0.53
1:B:199:ASP:N	1:B:199:ASP:OD1	2.40	0.53
1:A:85:SER:C	1:A:234:TYR:CD1	2.82	0.53
1:C:179:VAL:HG22	1:C:180:PRO:N	2.23	0.53
1:B:84:ARG:HG3	1:B:119:LEU:HD11	1.91	0.53
1:B:293:GLU:HA	1:B:317:GLY:HA2	1.91	0.53
1:A:269:LYS:HB3	1:A:277:ASP:OD2	2.09	0.53
1:A:133:SER:HB3	1:A:235:THR:CG2	2.35	0.53
1:A:179:VAL:CG1	1:A:182:THR:HG22	2.39	0.53
1:C:135:ARG:CB	1:C:185:ILE:HD11	2.38	0.53
1:C:82:ILE:HG12	1:C:83:THR:N	2.24	0.53
1:B:173:GLU:HG3	1:B:174:GLY:H	1.73	0.53
1:B:129:TYR:CA	1:B:237:GLN:O	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:95:LYS:NZ	1:A:221:ALA:HB1	2.22	0.52
1:A:129:TYR:CA	1:A:237:GLN:O	2.57	0.52
1:A:82:ILE:HD12	1:A:126:TYR:CE2	2.44	0.52
1:A:82:ILE:HG12	1:A:83:THR:N	2.24	0.52
1:C:107:VAL:O	1:C:115:THR:CG2	2.56	0.52
1:C:136:PHE:CZ	1:C:212:LEU:CD2	2.91	0.52
1:B:100:GLU:O	1:B:101:PRO:O	2.25	0.52
1:B:113:PRO:HG3	1:B:120:ILE:CD1	2.39	0.52
1:B:112:GLU:HB3	1:B:115:THR:CG2	2.40	0.52
1:B:85:SER:C	1:B:234:TYR:CD1	2.82	0.52
1:B:244:SER:O	1:B:245:THR:HB	2.08	0.52
1:B:300:LEU:CG	1:B:308:PHE:HZ	2.20	0.52
1:C:179:VAL:CG1	1:C:182:THR:HG22	2.39	0.52
1:B:149:LYS:HE2	1:B:151:ALA:CB	2.39	0.52
1:B:179:VAL:CG1	1:B:182:THR:HG22	2.39	0.52
1:B:295:ALA:HB1	1:B:314:ALA:C	2.30	0.52
1:B:82:ILE:HD12	1:B:126:TYR:CE2	2.44	0.52
1:A:152:LEU:HD12	1:A:184:PHE:CE2	2.45	0.52
1:C:94:LYS:O	1:C:95:LYS:C	2.48	0.52
1:B:152:LEU:HD12	1:B:184:PHE:CE2	2.44	0.52
1:B:185:ILE:CD1	1:B:186:LEU:O	2.58	0.52
1:A:236:VAL:CG1	1:A:237:GLN:H	2.23	0.52
1:C:112:GLU:HB3	1:C:115:THR:CG2	2.39	0.52
1:C:126:TYR:C	1:C:242:THR:HG22	2.30	0.52
1:C:293:GLU:HA	1:C:317:GLY:HA2	1.91	0.52
1:B:135:ARG:CB	1:B:185:ILE:HD11	2.38	0.52
1:B:154:PHE:CB	1:B:212:LEU:HD12	2.35	0.52
1:A:350:ARG:O	1:A:351:ILE:CB	2.53	0.52
1:C:339:GLU:O	1:C:340:GLU:OE1	2.27	0.52
1:A:112:GLU:HB3	1:A:115:THR:CG2	2.39	0.52
1:C:128:LYS:O	1:C:129:TYR:HB3	2.10	0.52
1:C:152:LEU:HD12	1:C:184:PHE:CE2	2.45	0.52
1:C:179:VAL:HG13	1:C:182:THR:HG22	1.90	0.52
1:C:95:LYS:HZ1	1:C:221:ALA:HB1	1.74	0.52
1:A:304:ASP:OD2	1:A:332:GLY:N	2.43	0.52
1:A:142:SER:HB3	1:A:227:LEU:O	2.09	0.52
1:A:244:SER:O	1:A:245:THR:HB	2.08	0.52
1:C:82:ILE:HD12	1:C:126:TYR:CE2	2.44	0.52
1:C:166:LEU:C	1:C:168:SER:N	2.61	0.52
1:C:350:ARG:O	1:C:351:ILE:CB	2.53	0.52
1:C:78:ALA:O	1:C:81:GLY:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:56:THR:CG2	1:C:57:ARG:N	2.58	0.52
1:A:149:LYS:HE2	1:A:151:ALA:CB	2.39	0.52
1:A:93:LEU:HD12	1:A:138:TYR:HE1	1.75	0.52
1:B:269:LYS:HB3	1:B:277:ASP:OD2	2.09	0.52
1:A:300:LEU:CG	1:A:308:PHE:HZ	2.21	0.52
1:A:277:ASP:CG	1:A:334:LYS:HZ3	2.13	0.52
1:B:338:THR:HG1	1:B:339:GLU:HB2	1.69	0.52
1:C:54:LYS:O	1:C:55:VAL:HB	2.08	0.52
1:C:239:LYS:O	1:C:240:ASN:O	2.28	0.52
1:A:113:PRO:HG3	1:A:120:ILE:CD1	2.39	0.52
1:C:149:LYS:HE2	1:C:151:ALA:CB	2.39	0.52
1:C:304:ASP:OD2	1:C:332:GLY:N	2.43	0.52
1:C:90:ILE:HD11	1:C:232:VAL:HG22	1.83	0.52
1:B:236:VAL:CG1	1:B:237:GLN:H	2.23	0.52
1:B:313:GLU:HB2	1:B:314:ALA:C	2.29	0.52
1:C:149:LYS:HD3	1:C:217:TYR:HE1	1.73	0.52
1:C:125:GLN:C	1:C:242:THR:HG23	2.30	0.52
1:B:304:ASP:OD2	1:B:332:GLY:N	2.43	0.52
1:B:93:LEU:HD12	1:B:138:TYR:HE1	1.75	0.52
1:A:339:GLU:O	1:A:340:GLU:OE1	2.27	0.52
1:A:125:GLN:C	1:A:242:THR:HG23	2.30	0.52
1:C:138:TYR:CZ	1:C:150:VAL:HG21	2.45	0.52
1:C:185:ILE:CD1	1:C:186:LEU:O	2.58	0.52
1:A:295:ALA:HB2	1:A:315:ALA:CB	2.37	0.52
1:A:185:ILE:CD1	1:A:186:LEU:O	2.58	0.51
1:A:235:THR:O	1:A:235:THR:HG23	2.09	0.51
1:C:300:LEU:O	1:C:308:PHE:CE2	2.63	0.51
1:B:136:PHE:HB3	1:B:230:VAL:CG1	2.40	0.51
1:A:295:ALA:HB1	1:A:314:ALA:C	2.30	0.51
1:A:144:SER:O	1:A:146:THR:N	2.44	0.51
1:A:138:TYR:CZ	1:A:150:VAL:HG21	2.45	0.51
1:C:179:VAL:HG13	1:C:181:TRP:CD1	2.38	0.51
1:C:236:VAL:CG1	1:C:237:GLN:H	2.23	0.51
1:C:285:ASN:HD22	1:C:286:PHE:H	1.58	0.51
1:C:84:ARG:HG3	1:C:119:LEU:HD11	1.91	0.51
1:B:144:SER:O	1:B:146:THR:N	2.44	0.51
1:B:295:ALA:N	1:B:316:ALA:CA	2.40	0.51
1:B:94:LYS:O	1:B:95:LYS:C	2.48	0.51
1:A:103:TYR:CE1	1:A:169:LEU:HD12	2.43	0.51
1:A:103:TYR:CD1	1:A:215:ALA:HB2	2.45	0.51
1:B:82:ILE:HG12	1:B:83:THR:N	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:82:ILE:O	1:B:83:THR:OG1	2.18	0.51
1:A:293:GLU:O	1:A:317:GLY:HA2	2.09	0.51
1:B:248:ALA:O	1:B:263:VAL:C	2.48	0.51
1:A:221:ALA:O	1:A:225:ALA:HB2	2.10	0.51
1:C:83:THR:CB	1:C:130:ARG:HH12	2.24	0.51
1:B:153:ALA:CA	1:B:174:GLY:HA3	2.33	0.51
1:B:239:LYS:O	1:B:240:ASN:O	2.28	0.51
1:A:166:LEU:C	1:A:168:SER:N	2.61	0.51
1:A:230:VAL:CG1	1:A:231:ARG:N	2.74	0.51
1:A:94:LYS:O	1:A:95:LYS:C	2.48	0.51
1:C:295:ALA:HB1	1:C:314:ALA:C	2.30	0.51
1:B:221:ALA:O	1:B:225:ALA:HB2	2.10	0.51
1:B:125:GLN:C	1:B:242:THR:HG23	2.30	0.51
1:A:297:VAL:HB	1:A:336:VAL:CG1	1.98	0.51
1:C:230:VAL:CG1	1:C:231:ARG:N	2.74	0.51
1:B:128:LYS:HG3	1:B:196:PHE:CD2	2.46	0.51
1:B:243:GLY:O	1:B:244:SER:HB2	2.11	0.51
1:B:285:ASN:HD22	1:B:286:PHE:H	1.58	0.51
1:A:107:VAL:O	1:A:115:THR:CG2	2.56	0.51
1:A:128:LYS:HG3	1:A:196:PHE:CD2	2.46	0.51
1:C:221:ALA:O	1:C:225:ALA:HB2	2.10	0.51
1:C:113:PRO:HG2	1:C:285:ASN:HB3	1.91	0.51
1:C:313:GLU:CG	1:C:318:SER:HB2	2.19	0.51
1:B:235:THR:HG23	1:B:235:THR:O	2.09	0.51
1:B:83:THR:CB	1:B:130:ARG:HH12	2.24	0.51
1:C:241:ARG:H	1:C:241:ARG:CD	2.22	0.51
1:A:291:PHE:CG	1:A:345:LYS:O	2.64	0.51
1:A:198:ALA:C	1:A:200:GLY:N	2.55	0.51
1:C:129:TYR:CA	1:C:237:GLN:O	2.57	0.51
1:C:202:SER:N	1:C:281:LEU:HG	2.26	0.51
1:C:136:PHE:HB3	1:C:230:VAL:CG1	2.40	0.51
1:B:103:TYR:CE1	1:B:169:LEU:HD12	2.43	0.51
1:B:300:LEU:O	1:B:308:PHE:CE2	2.63	0.51
1:A:243:GLY:O	1:A:244:SER:HB2	2.11	0.51
1:A:82:ILE:O	1:A:83:THR:OG1	2.18	0.51
1:C:188:VAL:O	1:C:188:VAL:CG2	2.59	0.51
1:B:101:PRO:CB	1:B:217:TYR:CD2	2.94	0.51
1:A:285:ASN:HD22	1:A:286:PHE:H	1.58	0.51
1:A:300:LEU:O	1:A:308:PHE:CE2	2.63	0.51
1:A:239:LYS:O	1:A:240:ASN:O	2.28	0.51
1:A:136:PHE:HB3	1:A:230:VAL:CG1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:243:GLY:O	1:C:244:SER:HB2	2.11	0.51
1:C:295:ALA:HB2	1:C:315:ALA:CB	2.37	0.51
1:B:291:PHE:CG	1:B:345:LYS:O	2.64	0.51
1:A:296:PRO:CD	1:A:337:THR:HG21	2.38	0.51
1:A:107:VAL:HA	1:A:211:LYS:HA	1.93	0.50
1:A:101:PRO:CB	1:A:217:TYR:CD2	2.94	0.50
1:C:109:ASN:ND2	1:C:350:ARG:NH2	2.58	0.50
1:C:128:LYS:HG3	1:C:196:PHE:CD2	2.46	0.50
1:C:85:SER:O	1:C:234:TYR:CE1	2.65	0.50
1:C:235:THR:O	1:C:235:THR:HG23	2.09	0.50
1:C:207:VAL:C	1:C:329:ARG:NH2	2.64	0.50
1:A:313:GLU:HB2	1:A:314:ALA:C	2.29	0.50
1:A:188:VAL:O	1:A:188:VAL:CG2	2.59	0.50
1:C:93:LEU:HD12	1:C:138:TYR:HE1	1.75	0.50
1:B:138:TYR:CZ	1:B:150:VAL:HG21	2.45	0.50
1:B:103:TYR:CD1	1:B:215:ALA:HB2	2.46	0.50
1:B:126:TYR:C	1:B:242:THR:HG22	2.30	0.50
1:A:314:ALA:O	1:A:315:ALA:HB3	2.11	0.50
1:B:241:ARG:H	1:B:241:ARG:CD	2.22	0.50
1:A:128:LYS:O	1:A:129:TYR:HB3	2.10	0.50
1:C:153:ALA:CA	1:C:174:GLY:HA3	2.33	0.50
1:C:154:PHE:CB	1:C:212:LEU:HD12	2.35	0.50
1:C:130:ARG:CB	1:C:237:GLN:N	2.74	0.50
1:C:314:ALA:O	1:C:315:ALA:HB3	2.11	0.50
1:B:230:VAL:CG1	1:B:231:ARG:N	2.74	0.50
1:A:130:ARG:CB	1:A:237:GLN:N	2.74	0.50
1:C:144:SER:O	1:C:146:THR:N	2.44	0.50
1:C:279:HIS:HB3	1:C:280:PHE:N	2.26	0.50
1:C:300:LEU:CG	1:C:308:PHE:HZ	2.20	0.50
1:B:198:ALA:C	1:B:200:GLY:N	2.55	0.50
1:B:119:LEU:HD23	1:B:234:TYR:CE2	2.43	0.50
1:C:77:THR:CG2	1:C:78:ALA:H	2.03	0.50
1:A:157:ASP:C	1:A:157:ASP:OD1	2.50	0.50
1:A:173:GLU:HG3	1:A:174:GLY:H	1.73	0.50
1:A:242:THR:CG2	1:A:243:GLY:H	2.22	0.50
1:C:154:PHE:CD1	1:C:155:ASP:CA	2.90	0.50
1:B:314:ALA:O	1:B:315:ALA:HB3	2.11	0.50
1:B:188:VAL:CG2	1:B:188:VAL:O	2.59	0.50
1:A:83:THR:CB	1:A:130:ARG:HH12	2.24	0.50
1:C:103:TYR:CD1	1:C:215:ALA:HB2	2.46	0.50
1:B:130:ARG:CB	1:B:237:GLN:H	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:151:ALA:HA	1:B:177:SER:CB	2.21	0.50
1:B:157:ASP:C	1:B:157:ASP:OD1	2.50	0.50
1:C:101:PRO:CB	1:C:217:TYR:CD2	2.94	0.50
1:B:107:VAL:HA	1:B:211:LYS:HA	1.93	0.50
1:B:128:LYS:O	1:B:129:TYR:HB3	2.10	0.50
1:B:136:PHE:HD1	1:B:231:ARG:O	1.95	0.50
1:B:290:LEU:HD23	1:B:346:TRP:HB2	1.90	0.50
1:B:271:THR:CG2	1:B:275:GLU:OE2	2.56	0.50
1:A:130:ARG:CB	1:A:237:GLN:H	2.25	0.50
1:A:135:ARG:CB	1:A:185:ILE:HD11	2.38	0.50
1:C:71:THR:OG1	1:C:87:SER:CB	2.59	0.50
1:B:116:PHE:CE2	1:B:234:TYR:CE2	3.00	0.50
1:B:130:ARG:CB	1:B:237:GLN:N	2.74	0.50
1:B:133:SER:N	1:B:235:THR:CG2	2.74	0.50
1:B:279:HIS:HB3	1:B:280:PHE:N	2.27	0.50
1:A:150:VAL:HG23	1:A:227:LEU:HD23	1.94	0.49
1:C:130:ARG:CB	1:C:237:GLN:H	2.25	0.49
1:C:293:GLU:O	1:C:317:GLY:HA2	2.09	0.49
1:B:107:VAL:O	1:B:115:THR:CG2	2.56	0.49
1:B:133:SER:O	1:B:234:TYR:CB	2.60	0.49
1:B:242:THR:CG2	1:B:243:GLY:H	2.22	0.49
1:B:300:LEU:CB	1:B:308:PHE:CZ	2.95	0.49
1:A:241:ARG:H	1:A:241:ARG:CD	2.22	0.49
1:C:107:VAL:HA	1:C:211:LYS:HA	1.93	0.49
1:B:150:VAL:HG23	1:B:227:LEU:HD23	1.94	0.49
1:B:85:SER:O	1:B:234:TYR:CE1	2.65	0.49
1:A:277:ASP:HA	1:A:334:LYS:HZ2	1.75	0.49
1:C:157:ASP:C	1:C:157:ASP:OD1	2.50	0.49
1:A:136:PHE:HD1	1:A:231:ARG:O	1.95	0.49
1:C:100:GLU:O	1:C:101:PRO:C	2.48	0.49
1:C:167:ALA:O	1:C:171:ASN:ND2	2.45	0.49
1:A:300:LEU:CB	1:A:308:PHE:CZ	2.95	0.49
1:A:163:PRO:HB2	1:A:165:ASP:N	2.28	0.49
1:A:116:PHE:CE2	1:A:234:TYR:CE2	3.00	0.49
1:A:126:TYR:C	1:A:242:THR:HG22	2.30	0.49
1:B:150:VAL:CG2	1:B:227:LEU:HD23	2.43	0.49
1:C:151:ALA:HA	1:C:177:SER:CB	2.21	0.49
1:C:204:PRO:CB	1:C:329:ARG:N	2.75	0.49
1:B:269:LYS:CG	1:B:270:GLY:N	2.58	0.49
1:A:133:SER:O	1:A:234:TYR:CB	2.60	0.49
1:A:85:SER:O	1:A:234:TYR:CE1	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:109:ASN:O	1:C:110:PRO:C	2.51	0.49
1:C:290:LEU:HD23	1:C:346:TRP:HB2	1.90	0.49
1:B:167:ALA:O	1:B:171:ASN:ND2	2.45	0.49
1:A:119:LEU:HD23	1:A:234:TYR:CE2	2.43	0.49
1:A:167:ALA:O	1:A:171:ASN:ND2	2.45	0.49
1:C:107:VAL:HG11	1:C:283:THR:CG2	2.43	0.49
1:C:150:VAL:CG2	1:C:227:LEU:HD23	2.43	0.49
1:C:116:PHE:CE2	1:C:234:TYR:CE2	3.00	0.49
1:C:291:PHE:CG	1:C:345:LYS:O	2.64	0.49
1:B:85:SER:O	1:B:234:TYR:HE1	1.96	0.49
1:C:150:VAL:HG23	1:C:227:LEU:HD23	1.94	0.49
1:B:163:PRO:HB2	1:B:165:ASP:N	2.28	0.49
1:B:244:SER:C	1:B:245:THR:HG22	2.31	0.49
1:B:86:GLY:HA2	1:B:234:TYR:HE1	1.68	0.49
1:A:264:SER:OG	1:A:265:TRP:N	2.45	0.49
1:A:295:ALA:N	1:A:316:ALA:CA	2.40	0.49
1:C:85:SER:O	1:C:234:TYR:HE1	1.96	0.49
1:B:288:LEU:CD1	1:B:290:LEU:CG	2.70	0.49
1:B:278:CYS:CA	1:B:334:LYS:HD3	2.42	0.49
1:A:85:SER:O	1:A:234:TYR:HE1	1.96	0.49
1:C:136:PHE:HD1	1:C:231:ARG:O	1.95	0.49
1:C:119:LEU:HD23	1:C:234:TYR:CE2	2.43	0.49
1:C:201:ILE:CD1	1:C:281:LEU:CD1	2.90	0.49
1:B:244:SER:OG	1:B:245:THR:N	2.46	0.49
1:B:264:SER:OG	1:B:265:TRP:N	2.45	0.49
1:B:241:ARG:CD	1:B:241:ARG:N	2.75	0.49
1:A:150:VAL:CG2	1:A:227:LEU:HD23	2.43	0.48
1:A:244:SER:OG	1:A:245:THR:N	2.46	0.48
1:A:88:GLU:OE2	1:A:118:GLN:HB3	2.13	0.48
1:C:278:CYS:CA	1:C:334:LYS:HD3	2.42	0.48
1:B:92:THR:HG23	1:B:93:LEU:O	2.13	0.48
1:C:241:ARG:CD	1:C:241:ARG:N	2.75	0.48
1:A:279:HIS:HB3	1:A:280:PHE:N	2.27	0.48
1:C:133:SER:O	1:C:234:TYR:CB	2.60	0.48
1:C:264:SER:OG	1:C:265:TRP:N	2.45	0.48
1:C:249:GLN:NE2	1:C:265:TRP:N	2.54	0.48
1:C:291:PHE:C	1:C:292:TYR:HB3	2.33	0.48
1:B:88:GLU:OE2	1:B:118:GLN:HB3	2.13	0.48
1:B:84:ARG:HD2	1:B:119:LEU:HD13	1.94	0.48
1:B:88:GLU:O	1:B:231:ARG:HB3	2.05	0.48
1:A:105:THR:HG23	1:A:105:THR:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:152:LEU:O	1:A:186:LEU:CD1	2.55	0.48
1:A:89:LEU:HD23	1:A:90:ILE:N	2.28	0.48
1:C:158:ALA:C	1:C:211:LYS:H	1.93	0.48
1:B:130:ARG:HH11	1:B:236:VAL:C	2.16	0.48
1:A:291:PHE:C	1:A:292:TYR:HB3	2.33	0.48
1:A:333:VAL:C	1:A:334:LYS:CD	2.78	0.48
1:C:336:VAL:O	1:C:337:THR:CG2	2.62	0.48
1:B:204:PRO:N	1:B:205:LYS:HD2	2.28	0.48
1:C:66:TYR:HE2	1:C:183:GLY:HA3	1.73	0.48
1:C:163:PRO:CG	1:C:168:SER:CB	2.92	0.48
1:C:300:LEU:CB	1:C:308:PHE:CZ	2.95	0.48
1:B:83:THR:HG23	1:B:130:ARG:CZ	2.44	0.48
1:B:249:GLN:O	1:B:347:GLN:CA	2.61	0.48
1:C:339:GLU:O	1:C:340:GLU:CA	2.60	0.48
1:A:100:GLU:O	1:A:101:PRO:C	2.48	0.48
1:A:150:VAL:O	1:A:151:ALA:C	2.52	0.48
1:A:84:ARG:HD2	1:A:119:LEU:HD13	1.94	0.48
1:C:150:VAL:O	1:C:151:ALA:C	2.52	0.48
1:C:86:GLY:HA2	1:C:234:TYR:HE1	1.68	0.48
1:B:150:VAL:O	1:B:151:ALA:C	2.52	0.48
1:C:336:VAL:O	1:C:337:THR:HG23	2.14	0.48
1:B:336:VAL:O	1:B:337:THR:HG23	2.14	0.48
1:A:241:ARG:CD	1:A:241:ARG:N	2.75	0.48
1:A:83:THR:HG23	1:A:130:ARG:CZ	2.44	0.48
1:C:103:TYR:CE1	1:C:169:LEU:HD12	2.43	0.48
1:C:83:THR:HG23	1:C:130:ARG:CZ	2.44	0.48
1:C:84:ARG:HD2	1:C:119:LEU:HD13	1.94	0.48
1:B:166:LEU:C	1:B:168:SER:N	2.61	0.48
1:A:163:PRO:CG	1:A:168:SER:CB	2.92	0.48
1:A:92:THR:HG23	1:A:93:LEU:O	2.14	0.48
1:C:159:ALA:HB1	1:C:328:GLU:HB2	1.18	0.48
1:B:95:LYS:HZ1	1:B:221:ALA:HB1	1.78	0.48
1:A:249:GLN:O	1:A:347:GLN:CA	2.61	0.48
1:A:130:ARG:HH11	1:A:236:VAL:C	2.16	0.48
1:C:204:PRO:N	1:C:205:LYS:HD2	2.29	0.48
1:C:101:PRO:CG	1:C:217:TYR:CE2	2.74	0.48
1:B:152:LEU:O	1:B:186:LEU:CD1	2.55	0.48
1:A:339:GLU:O	1:A:340:GLU:CA	2.60	0.48
1:A:204:PRO:N	1:A:205:LYS:HD2	2.29	0.48
1:A:150:VAL:O	1:A:151:ALA:O	2.32	0.48
1:C:89:LEU:HD23	1:C:90:ILE:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:109:ASN:OD1	1:A:129:TYR:OH	2.32	0.48
1:C:163:PRO:HB2	1:C:165:ASP:N	2.28	0.48
1:C:101:PRO:CG	1:C:217:TYR:HD2	2.26	0.48
1:C:88:GLU:OE2	1:C:118:GLN:HB3	2.14	0.48
1:B:163:PRO:CG	1:B:168:SER:CB	2.92	0.48
1:A:248:ALA:CA	1:A:264:SER:O	2.58	0.48
1:A:288:LEU:C	1:A:289:THR:OG1	2.49	0.48
1:A:290:LEU:HB2	1:A:346:TRP:HA	1.96	0.48
1:A:336:VAL:O	1:A:337:THR:CG2	2.62	0.48
1:B:296:PRO:CD	1:B:337:THR:HG21	2.38	0.48
1:A:111:SER:HB3	1:A:197:VAL:CG2	2.44	0.47
1:C:134:LEU:CD2	1:C:188:VAL:HG22	2.41	0.47
1:C:152:LEU:O	1:C:186:LEU:CD1	2.56	0.47
1:B:105:THR:HG23	1:B:105:THR:O	2.14	0.47
1:B:109:ASN:OD1	1:B:129:TYR:OH	2.32	0.47
1:B:111:SER:HB3	1:B:197:VAL:CG2	2.44	0.47
1:B:336:VAL:O	1:B:337:THR:CG2	2.62	0.47
1:B:141:MET:CG	1:B:141:MET:O	2.46	0.47
1:A:95:LYS:HZ1	1:A:221:ALA:C	2.18	0.47
1:C:244:SER:OG	1:C:245:THR:N	2.46	0.47
1:C:269:LYS:HG2	1:C:270:GLY:O	2.14	0.47
1:C:92:THR:HG23	1:C:93:LEU:O	2.14	0.47
1:B:179:VAL:CG1	1:B:181:TRP:NE1	2.54	0.47
1:A:163:PRO:CG	1:A:168:SER:HB3	2.44	0.47
1:C:295:ALA:N	1:C:316:ALA:CA	2.40	0.47
1:B:101:PRO:HG2	1:B:166:LEU:HD12	1.94	0.47
1:B:163:PRO:CG	1:B:168:SER:HB3	2.44	0.47
1:B:144:SER:HA	1:B:181:TRP:HB3	1.96	0.47
1:C:343:LYS:HB2	1:C:344:GLY:H	1.13	0.47
1:C:249:GLN:O	1:C:347:GLN:CA	2.61	0.47
1:B:95:LYS:HZ1	1:B:221:ALA:C	2.18	0.47
1:C:130:ARG:HB3	1:C:237:GLN:N	2.30	0.47
1:C:130:ARG:HH11	1:C:236:VAL:C	2.16	0.47
1:C:179:VAL:CG2	1:C:181:TRP:CD1	2.93	0.47
1:C:185:ILE:HD11	1:C:186:LEU:O	2.15	0.47
1:C:278:CYS:N	1:C:333:VAL:O	2.48	0.47
1:B:149:LYS:HE2	1:B:151:ALA:HB2	1.96	0.47
1:B:150:VAL:O	1:B:151:ALA:O	2.32	0.47
1:B:185:ILE:HD11	1:B:186:LEU:O	2.15	0.47
1:A:278:CYS:N	1:A:333:VAL:O	2.48	0.47
1:A:149:LYS:HE2	1:A:151:ALA:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:179:VAL:CG1	1:A:181:TRP:NE1	2.54	0.47
1:B:203:ASP:OD1	1:B:205:LYS:CG	2.56	0.47
1:A:185:ILE:HD11	1:A:186:LEU:O	2.15	0.47
1:A:136:PHE:CE2	1:A:212:LEU:CD2	2.98	0.47
1:C:136:PHE:CE2	1:C:212:LEU:CD2	2.98	0.47
1:C:150:VAL:O	1:C:151:ALA:O	2.32	0.47
1:C:162:PRO:O	1:C:163:PRO:O	2.33	0.47
1:C:144:SER:HA	1:C:181:TRP:HB3	1.96	0.47
1:B:136:PHE:CE2	1:B:212:LEU:CD2	2.98	0.47
1:B:291:PHE:HD2	1:B:346:TRP:HE3	1.63	0.47
1:B:278:CYS:N	1:B:333:VAL:O	2.48	0.47
1:B:269:LYS:HG2	1:B:270:GLY:O	2.14	0.47
1:B:290:LEU:HB2	1:B:346:TRP:HA	1.96	0.47
1:B:291:PHE:C	1:B:292:TYR:HB3	2.33	0.47
1:A:248:ALA:C	1:A:264:SER:CB	2.82	0.47
1:B:338:THR:OG1	1:B:339:GLU:CA	2.63	0.47
1:A:144:SER:HA	1:A:181:TRP:HB3	1.96	0.47
1:C:313:GLU:HG3	1:C:315:ALA:HA	1.97	0.47
1:A:273:GLY:O	1:A:274:TRP:C	2.53	0.47
1:C:201:ILE:HD13	1:C:266:SER:HA	1.97	0.47
1:C:291:PHE:CD1	1:C:292:TYR:N	2.83	0.47
1:C:277:ASP:CG	1:C:334:LYS:HZ3	2.17	0.47
1:A:269:LYS:HG2	1:A:270:GLY:O	2.14	0.47
1:C:296:PRO:CD	1:C:337:THR:HG21	2.39	0.47
1:C:105:THR:O	1:C:105:THR:HG23	2.14	0.47
1:C:107:VAL:HG22	1:C:211:LYS:HB3	1.97	0.47
1:B:291:PHE:CD1	1:B:292:TYR:N	2.83	0.47
1:B:300:LEU:HD12	1:B:300:LEU:HA	1.28	0.47
1:C:338:THR:OG1	1:C:339:GLU:CA	2.63	0.47
1:A:203:ASP:OD1	1:A:205:LYS:CG	2.56	0.47
1:A:153:ALA:CA	1:A:174:GLY:HA3	2.33	0.46
1:C:149:LYS:O	1:C:216:THR:HA	2.15	0.46
1:C:185:ILE:HD12	1:C:186:LEU:C	2.36	0.46
1:B:115:THR:C	1:B:116:PHE:CD1	2.78	0.46
1:A:291:PHE:CD1	1:A:292:TYR:N	2.83	0.46
1:C:162:PRO:O	1:C:163:PRO:C	2.50	0.46
1:B:100:GLU:C	1:B:101:PRO:O	2.54	0.46
1:B:162:PRO:O	1:B:163:PRO:O	2.33	0.46
1:B:174:GLY:O	1:B:175:CYS:CB	2.64	0.46
1:B:280:PHE:HZ	1:B:324:VAL:HG21	1.81	0.46
1:B:90:ILE:O	1:B:90:ILE:CG2	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:336:VAL:O	1:A:337:THR:HG23	2.14	0.46
1:A:100:GLU:C	1:A:101:PRO:O	2.54	0.46
1:A:130:ARG:HB3	1:A:237:GLN:N	2.30	0.46
1:C:174:GLY:O	1:C:175:CYS:CB	2.63	0.46
1:C:290:LEU:HB2	1:C:346:TRP:HA	1.96	0.46
1:C:71:THR:O	1:C:71:THR:HG23	2.16	0.46
1:B:101:PRO:CG	1:B:217:TYR:HD2	2.26	0.46
1:B:279:HIS:CB	1:B:280:PHE:N	2.78	0.46
1:A:289:THR:O	1:A:290:LEU:HG	2.14	0.46
1:C:273:GLY:O	1:C:274:TRP:C	2.53	0.46
1:A:162:PRO:O	1:A:163:PRO:O	2.33	0.46
1:A:230:VAL:CG1	1:A:231:ARG:H	2.28	0.46
1:C:234:TYR:CD2	1:C:236:VAL:HG23	2.51	0.46
1:C:125:GLN:CA	1:C:243:GLY:HA2	2.27	0.46
1:B:230:VAL:CG1	1:B:231:ARG:H	2.28	0.46
1:B:295:ALA:HB2	1:B:315:ALA:CB	2.38	0.46
1:B:89:LEU:HD23	1:B:90:ILE:N	2.28	0.46
1:A:280:PHE:HZ	1:A:324:VAL:HG21	1.81	0.46
1:A:290:LEU:HD23	1:A:346:TRP:HB2	1.90	0.46
1:B:249:GLN:CG	1:B:263:VAL:O	2.64	0.46
1:C:244:SER:C	1:C:245:THR:HG22	2.31	0.46
1:C:289:THR:O	1:C:290:LEU:HG	2.14	0.46
1:B:112:GLU:O	1:B:112:GLU:HG3	2.16	0.46
1:A:291:PHE:HD2	1:A:346:TRP:HE3	1.63	0.46
1:A:112:GLU:O	1:A:112:GLU:HG3	2.16	0.46
1:A:185:ILE:HD12	1:A:186:LEU:C	2.36	0.46
1:C:149:LYS:HE2	1:C:151:ALA:HB2	1.96	0.46
1:C:172:ILE:C	1:C:173:GLU:O	2.51	0.46
1:C:249:GLN:CG	1:C:263:VAL:O	2.64	0.46
1:C:89:LEU:HD23	1:C:89:LEU:O	2.00	0.46
1:B:290:LEU:HD13	1:B:291:PHE:HB3	1.98	0.46
1:B:96:ASN:C	1:B:98:ASP:N	2.55	0.46
1:B:297:VAL:HG12	1:B:336:VAL:HG11	0.97	0.46
1:C:160:LYS:N	1:C:328:GLU:OE1	2.49	0.46
1:C:197:VAL:HG21	1:C:350:ARG:NH1	2.30	0.46
1:C:230:VAL:CG1	1:C:231:ARG:H	2.28	0.46
1:C:201:ILE:CD1	1:C:266:SER:HA	2.46	0.46
1:B:130:ARG:HB3	1:B:237:GLN:N	2.30	0.46
1:B:333:VAL:C	1:B:334:LYS:CD	2.78	0.46
1:A:249:GLN:CG	1:A:263:VAL:O	2.64	0.46
1:A:271:THR:HG23	1:A:275:GLU:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:90:ILE:HD11	1:A:232:VAL:HG22	1.83	0.46
1:C:136:PHE:CE2	1:C:212:LEU:HD21	2.51	0.46
1:C:333:VAL:C	1:C:334:LYS:CD	2.78	0.46
1:B:185:ILE:HD12	1:B:186:LEU:C	2.36	0.46
1:B:269:LYS:CE	1:B:270:GLY:O	2.63	0.46
1:B:276:HIS:CG	1:B:277:ASP:N	2.74	0.46
1:A:174:GLY:O	1:A:175:CYS:CB	2.64	0.46
1:A:185:ILE:HD12	1:A:186:LEU:H	0.65	0.46
1:A:82:ILE:HG21	1:A:82:ILE:HD13	1.78	0.46
1:A:90:ILE:O	1:A:90:ILE:CG2	2.54	0.46
1:C:127:GLU:O	1:C:128:LYS:CG	2.64	0.46
1:C:207:VAL:H	1:C:329:ARG:NH1	2.13	0.46
1:C:95:LYS:HZ1	1:C:221:ALA:CB	2.29	0.46
1:B:109:ASN:O	1:B:110:PRO:C	2.51	0.46
1:B:288:LEU:C	1:B:289:THR:OG1	2.49	0.46
1:B:313:GLU:HG3	1:B:315:ALA:HA	1.97	0.46
1:C:74:ARG:C	1:C:75:VAL:HG23	2.37	0.46
1:A:279:HIS:CB	1:A:280:PHE:N	2.78	0.46
1:B:271:THR:HG23	1:B:275:GLU:HG2	1.97	0.46
1:A:234:TYR:CD2	1:A:236:VAL:HG23	2.50	0.46
1:C:207:VAL:N	1:C:329:ARG:CZ	2.64	0.46
1:C:126:TYR:C	1:C:242:THR:HG21	2.37	0.46
1:A:97:THR:O	1:A:97:THR:OG1	2.25	0.46
1:C:279:HIS:CB	1:C:280:PHE:N	2.78	0.45
1:C:95:LYS:HZ1	1:C:221:ALA:C	2.19	0.45
1:B:289:THR:O	1:B:290:LEU:HG	2.14	0.45
1:C:271:THR:HG23	1:C:275:GLU:HG2	1.97	0.45
1:B:273:GLY:O	1:B:274:TRP:C	2.53	0.45
1:A:107:VAL:HG22	1:A:211:LYS:HB3	1.97	0.45
1:A:101:PRO:CG	1:A:217:TYR:CE2	2.74	0.45
1:C:100:GLU:C	1:C:101:PRO:O	2.54	0.45
1:C:181:TRP:CE3	1:C:181:TRP:O	2.69	0.45
1:C:89:LEU:HA	1:C:230:VAL:O	2.16	0.45
1:C:133:SER:CA	1:C:235:THR:HG22	2.46	0.45
1:B:127:GLU:O	1:B:128:LYS:CG	2.64	0.45
1:B:149:LYS:O	1:B:216:THR:HA	2.15	0.45
1:A:181:TRP:O	1:A:181:TRP:CE3	2.69	0.45
1:A:95:LYS:HZ1	1:A:221:ALA:HB1	1.80	0.45
1:C:201:ILE:HD12	1:C:280:PHE:CA	1.90	0.45
1:C:201:ILE:HG23	1:C:281:LEU:HD23	1.93	0.45
1:A:253:PHE:HZ	1:A:268:THR:HG21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:84:ARG:CD	1:C:119:LEU:HD13	2.46	0.45
1:C:163:PRO:CG	1:C:168:SER:HB3	2.44	0.45
1:C:280:PHE:HZ	1:C:324:VAL:HG21	1.81	0.45
1:A:338:THR:OG1	1:A:339:GLU:CA	2.63	0.45
1:A:127:GLU:O	1:A:128:LYS:CG	2.64	0.45
1:A:101:PRO:HG2	1:A:166:LEU:HD12	1.94	0.45
1:C:204:PRO:CG	1:C:328:GLU:HG3	2.05	0.45
1:C:288:LEU:C	1:C:289:THR:OG1	2.49	0.45
1:C:60:ALA:HA	1:C:61:PRO:HD2	1.81	0.45
1:B:84:ARG:CD	1:B:119:LEU:HD13	2.46	0.45
1:B:234:TYR:CD2	1:B:236:VAL:HG23	2.51	0.45
1:B:295:ALA:HB2	1:B:315:ALA:HB3	1.99	0.45
1:A:290:LEU:HD13	1:A:291:PHE:HB3	1.98	0.45
1:A:313:GLU:HG3	1:A:315:ALA:HA	1.97	0.45
1:A:295:ALA:HB2	1:A:315:ALA:HB3	1.99	0.45
1:A:326:VAL:HG13	1:A:331:GLN:OE1	2.17	0.45
1:A:236:VAL:CG1	1:A:238:LEU:CD1	2.94	0.45
1:C:109:ASN:OD1	1:C:129:TYR:OH	2.32	0.45
1:B:181:TRP:CE3	1:B:181:TRP:O	2.69	0.45
1:A:269:LYS:CE	1:A:270:GLY:O	2.63	0.45
1:A:136:PHE:CE2	1:A:212:LEU:HD21	2.51	0.45
1:A:149:LYS:O	1:A:216:THR:HA	2.15	0.45
1:C:153:ALA:HB2	1:C:175:CYS:N	2.32	0.45
1:C:236:VAL:CG1	1:C:238:LEU:CD1	2.94	0.45
1:C:291:PHE:HD2	1:C:346:TRP:HE3	1.63	0.45
1:B:248:ALA:C	1:B:263:VAL:C	2.75	0.45
1:C:337:THR:HG1	1:C:343:LYS:HZ2	1.63	0.45
1:C:288:LEU:CD1	1:C:290:LEU:CG	2.70	0.45
1:C:290:LEU:HD13	1:C:291:PHE:HB3	1.98	0.45
1:C:315:ALA:O	1:C:318:SER:N	2.50	0.45
1:A:149:LYS:HD3	1:A:217:TYR:HE1	1.73	0.45
1:A:89:LEU:HA	1:A:230:VAL:O	2.17	0.45
1:C:112:GLU:O	1:C:112:GLU:HG3	2.16	0.45
1:B:293:GLU:O	1:B:316:ALA:C	2.52	0.45
1:B:90:ILE:HD11	1:B:232:VAL:HG22	1.83	0.45
1:A:269:LYS:O	1:A:277:ASP:CA	2.57	0.45
1:A:315:ALA:O	1:A:318:SER:N	2.50	0.45
1:A:278:CYS:CA	1:A:334:LYS:HD3	2.42	0.45
1:B:271:THR:CG2	1:B:275:GLU:HG2	2.47	0.45
1:B:336:VAL:C	1:B:337:THR:HG23	2.37	0.45
1:A:149:LYS:CG	1:A:217:TYR:HE1	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:113:PRO:CD	1:C:285:ASN:O	2.65	0.45
1:C:118:GLN:O	1:C:118:GLN:HG2	2.17	0.45
1:B:100:GLU:O	1:B:101:PRO:C	2.48	0.45
1:C:97:THR:OG1	1:C:97:THR:O	2.25	0.45
1:A:262:LEU:HD23	1:A:262:LEU:HA	1.71	0.45
1:A:84:ARG:CD	1:A:119:LEU:HD13	2.46	0.44
1:B:107:VAL:HG22	1:B:211:LYS:HB3	1.98	0.44
1:B:133:SER:CA	1:B:235:THR:HG22	2.47	0.44
1:B:277:ASP:CG	1:B:334:LYS:HZ3	2.21	0.44
1:B:89:LEU:HA	1:B:230:VAL:O	2.17	0.44
1:A:271:THR:CG2	1:A:275:GLU:HG2	2.47	0.44
1:B:213:ILE:HG23	1:B:214:MET:N	2.32	0.44
1:A:109:ASN:O	1:A:110:PRO:C	2.51	0.44
1:A:133:SER:N	1:A:235:THR:CG2	2.74	0.44
1:C:101:PRO:CD	1:C:217:TYR:HD2	2.30	0.44
1:C:253:PHE:HZ	1:C:268:THR:HG21	1.82	0.44
1:B:118:GLN:HG2	1:B:118:GLN:O	2.17	0.44
1:B:149:LYS:CG	1:B:217:TYR:HE1	2.29	0.44
1:B:315:ALA:O	1:B:318:SER:N	2.50	0.44
1:B:82:ILE:HD13	1:B:82:ILE:HG21	1.78	0.44
1:A:122:GLU:CG	1:A:122:GLU:O	2.64	0.44
1:A:105:THR:HA	1:A:212:LEU:O	2.18	0.44
1:A:133:SER:CA	1:A:235:THR:HG22	2.46	0.44
1:A:96:ASN:C	1:A:98:ASP:N	2.55	0.44
1:C:105:THR:HA	1:C:212:LEU:O	2.18	0.44
1:C:268:THR:CG2	1:C:268:THR:O	2.66	0.44
1:C:326:VAL:HG13	1:C:331:GLN:OE1	2.17	0.44
1:B:101:PRO:HD3	1:B:166:LEU:HD11	0.47	0.44
1:A:101:PRO:CD	1:A:217:TYR:HD2	2.30	0.44
1:C:111:SER:O	1:C:350:ARG:NE	2.48	0.44
1:B:136:PHE:CE2	1:B:212:LEU:HD21	2.51	0.44
1:C:163:PRO:HG3	1:C:168:SER:CB	2.48	0.44
1:B:101:PRO:HB3	1:B:217:TYR:CD2	2.53	0.44
1:B:101:PRO:CD	1:B:217:TYR:HD2	2.30	0.44
1:B:326:VAL:HG13	1:B:331:GLN:OE1	2.17	0.44
1:A:213:ILE:HG23	1:A:214:MET:N	2.32	0.44
1:A:199:ASP:N	1:A:199:ASP:OD1	2.40	0.44
1:A:126:TYR:C	1:A:242:THR:HG21	2.37	0.44
1:C:109:ASN:O	1:C:111:SER:N	2.50	0.44
1:C:133:SER:N	1:C:235:THR:CG2	2.74	0.44
1:C:137:ARG:N	1:C:230:VAL:HG13	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:295:ALA:HB2	1:C:315:ALA:HB3	1.98	0.44
1:C:56:THR:HG23	1:C:57:ARG:HB3	1.99	0.44
1:A:153:ALA:HB2	1:A:175:CYS:N	2.32	0.44
1:C:101:PRO:HD3	1:C:166:LEU:HD11	0.47	0.44
1:C:159:ALA:CB	1:C:328:GLU:OE1	2.55	0.44
1:B:291:PHE:C	1:B:292:TYR:CB	2.86	0.44
1:B:291:PHE:CE1	1:B:335:MET:HE3	2.53	0.44
1:C:213:ILE:HG23	1:C:214:MET:N	2.32	0.44
1:C:134:LEU:N	1:C:233:GLU:O	2.44	0.44
1:C:291:PHE:C	1:C:292:TYR:CB	2.86	0.44
1:B:158:ALA:C	1:B:211:LYS:H	1.93	0.44
1:B:105:THR:HA	1:B:212:LEU:O	2.18	0.44
1:B:84:ARG:NE	1:B:119:LEU:CD1	2.81	0.44
1:A:291:PHE:CE1	1:A:335:MET:HE3	2.51	0.44
1:B:248:ALA:HB3	1:B:249:GLN:HB3	1.87	0.44
1:C:72:GLN:HE21	1:C:73:PRO:HD2	1.83	0.44
1:A:118:GLN:HG2	1:A:118:GLN:O	2.17	0.44
1:A:158:ALA:C	1:A:211:LYS:H	1.93	0.44
1:B:304:ASP:OD2	1:B:331:GLN:CA	2.57	0.44
1:A:300:LEU:HA	1:A:300:LEU:HD12	1.28	0.44
1:A:252:ASP:OD2	1:A:345:LYS:HG2	2.16	0.44
1:C:336:VAL:C	1:C:337:THR:HG23	2.37	0.44
1:A:336:VAL:C	1:A:337:THR:HG23	2.37	0.44
1:C:262:LEU:HA	1:C:262:LEU:HD23	1.71	0.44
1:A:96:ASN:O	1:A:96:ASN:ND2	2.51	0.43
1:C:154:PHE:CZ	1:C:156:ARG:CA	3.01	0.43
1:C:197:VAL:HG22	1:C:350:ARG:CZ	2.48	0.43
1:C:113:PRO:HD3	1:C:351:ILE:O	2.18	0.43
1:B:105:THR:OG1	1:B:211:LYS:HD2	2.03	0.43
1:B:109:ASN:O	1:B:111:SER:N	2.50	0.43
1:B:134:LEU:CD2	1:B:188:VAL:HG22	2.41	0.43
1:B:153:ALA:HB2	1:B:175:CYS:N	2.32	0.43
1:B:172:ILE:C	1:B:173:GLU:O	2.51	0.43
1:B:236:VAL:CG1	1:B:238:LEU:CD1	2.94	0.43
1:C:76:SER:OG	1:C:77:THR:N	2.50	0.43
1:C:271:THR:CG2	1:C:275:GLU:HG2	2.47	0.43
1:A:109:ASN:O	1:A:111:SER:N	2.50	0.43
1:C:101:PRO:HB3	1:C:217:TYR:CD2	2.53	0.43
1:B:149:LYS:HD3	1:B:217:TYR:HE1	1.73	0.43
1:A:326:VAL:CG1	1:A:327:ALA:N	2.19	0.43
1:A:172:ILE:C	1:A:173:GLU:O	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:149:LYS:CG	1:C:217:TYR:HE1	2.29	0.43
1:C:243:GLY:O	1:C:244:SER:CB	2.67	0.43
1:B:163:PRO:HG3	1:B:168:SER:CB	2.47	0.43
1:B:253:PHE:HZ	1:B:268:THR:HG21	1.82	0.43
1:B:269:LYS:O	1:B:277:ASP:CA	2.57	0.43
1:B:339:GLU:O	1:B:340:GLU:CA	2.60	0.43
1:A:254:ALA:O	1:A:257:LYS:N	2.38	0.43
1:A:137:ARG:N	1:A:230:VAL:HG13	2.33	0.43
1:C:121:LYS:O	1:C:121:LYS:HG3	2.19	0.43
1:B:96:ASN:ND2	1:B:96:ASN:O	2.51	0.43
1:A:101:PRO:HB3	1:A:217:TYR:CD2	2.53	0.43
1:A:139:SER:HA	1:A:140:PRO:HD3	1.13	0.43
1:A:216:THR:OG1	1:A:227:LEU:HD21	2.18	0.43
1:A:125:GLN:CA	1:A:243:GLY:HA2	2.27	0.43
1:C:126:TYR:O	1:C:242:THR:CG2	2.66	0.43
1:C:293:GLU:O	1:C:316:ALA:C	2.52	0.43
1:C:84:ARG:NE	1:C:119:LEU:CD1	2.81	0.43
1:B:137:ARG:N	1:B:230:VAL:HG13	2.33	0.43
1:A:315:ALA:CA	1:A:318:SER:HB2	2.49	0.43
1:A:325:LYS:O	1:A:325:LYS:HG2	2.18	0.43
1:B:242:THR:CG2	1:B:243:GLY:N	2.73	0.43
1:B:112:GLU:HG2	1:B:329:ARG:HH22	1.83	0.43
1:B:121:LYS:O	1:B:121:LYS:HG3	2.19	0.43
1:A:101:PRO:HD3	1:A:166:LEU:HD11	0.47	0.43
1:B:278:CYS:O	1:B:333:VAL:O	2.37	0.43
1:A:121:LYS:O	1:A:121:LYS:HG3	2.19	0.43
1:A:291:PHE:C	1:A:292:TYR:CB	2.86	0.43
1:C:254:ALA:O	1:C:257:LYS:N	2.38	0.43
1:B:186:LEU:C	1:B:186:LEU:CD2	2.87	0.43
1:A:84:ARG:NE	1:A:119:LEU:CD1	2.81	0.43
1:C:87:SER:HA	1:C:231:ARG:HD2	2.01	0.43
1:B:216:THR:OG1	1:B:227:LEU:HD21	2.18	0.43
1:A:186:LEU:C	1:A:186:LEU:CD2	2.87	0.43
1:C:154:PHE:CE1	1:C:156:ARG:CA	3.02	0.43
1:B:288:LEU:O	1:B:289:THR:OG1	2.37	0.43
1:B:311:LEU:N	1:B:311:LEU:CD1	2.82	0.43
1:B:273:GLY:O	1:B:275:GLU:HB3	2.19	0.43
1:C:325:LYS:O	1:C:325:LYS:HG2	2.18	0.43
1:B:325:LYS:O	1:B:325:LYS:HG2	2.18	0.43
1:C:125:GLN:HA	1:C:243:GLY:N	2.34	0.42
1:B:255:GLY:HA2	1:B:342:PRO:CB	2.25	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:125:GLN:HA	1:A:243:GLY:N	2.34	0.42
1:C:137:ARG:O	1:C:230:VAL:HA	2.19	0.42
1:C:266:SER:HA	1:C:280:PHE:HA	2.02	0.42
1:C:309:SER:C	1:C:322:ALA:HA	2.20	0.42
1:C:96:ASN:O	1:C:96:ASN:ND2	2.52	0.42
1:B:258:ASP:OD1	1:B:259:GLY:N	2.52	0.42
1:A:278:CYS:O	1:A:333:VAL:O	2.37	0.42
1:A:137:ARG:O	1:A:230:VAL:HA	2.19	0.42
1:A:242:THR:CG2	1:A:243:GLY:N	2.73	0.42
1:A:113:PRO:HB2	1:A:329:ARG:HG3	1.96	0.42
1:C:236:VAL:CG1	1:C:238:LEU:HD11	2.50	0.42
1:B:111:SER:HB3	1:B:197:VAL:HG21	2.01	0.42
1:B:126:TYR:C	1:B:242:THR:HG21	2.37	0.42
1:A:293:GLU:CA	1:A:317:GLY:HA2	2.50	0.42
1:A:134:LEU:CD2	1:A:188:VAL:HG22	2.41	0.42
1:C:302:ASN:HB3	1:C:308:PHE:CE1	2.55	0.42
1:C:304:ASP:OD2	1:C:331:GLN:CA	2.57	0.42
1:B:137:ARG:O	1:B:230:VAL:HA	2.19	0.42
1:B:259:GLY:C	1:B:260:PRO:CD	2.84	0.42
1:B:293:GLU:CA	1:B:317:GLY:HA2	2.50	0.42
1:A:288:LEU:O	1:A:289:THR:OG1	2.37	0.42
1:C:273:GLY:O	1:C:275:GLU:HB3	2.19	0.42
1:C:341:GLN:O	1:C:342:PRO:C	2.58	0.42
1:A:154:PHE:CE1	1:A:156:ARG:CA	3.02	0.42
1:C:169:LEU:C	1:C:171:ASN:H	2.23	0.42
1:C:293:GLU:CA	1:C:317:GLY:HA2	2.50	0.42
1:B:302:ASN:HB3	1:B:308:PHE:CE1	2.55	0.42
1:A:293:GLU:O	1:A:316:ALA:C	2.52	0.42
1:A:169:LEU:C	1:A:171:ASN:H	2.22	0.42
1:A:243:GLY:O	1:A:244:SER:CB	2.67	0.42
1:C:201:ILE:HG22	1:C:264:SER:OG	2.20	0.42
1:C:112:GLU:CA	1:C:284:GLY:CA	2.96	0.42
1:C:315:ALA:CA	1:C:318:SER:HB2	2.49	0.42
1:C:289:THR:CG2	1:C:321:TRP:CZ3	3.03	0.42
1:C:291:PHE:CE1	1:C:335:MET:HE3	2.54	0.42
1:B:170:TYR:C	1:B:171:ASN:ND2	2.72	0.42
1:A:268:THR:O	1:A:268:THR:CG2	2.66	0.42
1:A:266:SER:HA	1:A:280:PHE:HA	2.02	0.42
1:B:297:VAL:HB	1:B:336:VAL:CG1	1.98	0.42
1:B:343:LYS:HB2	1:B:344:GLY:H	1.13	0.42
1:A:170:TYR:C	1:A:171:ASN:ND2	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:87:SER:HA	1:A:231:ARG:HD2	2.01	0.42
1:C:101:PRO:HG2	1:C:166:LEU:HD12	1.94	0.42
1:C:163:PRO:CG	1:C:168:SER:HB2	2.50	0.42
1:C:216:THR:OG1	1:C:227:LEU:HD21	2.18	0.42
1:C:258:ASP:OD1	1:C:259:GLY:N	2.52	0.42
1:C:269:LYS:CG	1:C:270:GLY:H	2.23	0.42
1:B:154:PHE:CE1	1:B:156:ARG:CA	3.02	0.42
1:A:273:GLY:O	1:A:275:GLU:HB3	2.19	0.42
1:A:302:ASN:HB3	1:A:308:PHE:CE1	2.55	0.42
1:A:296:PRO:HD2	1:A:337:THR:CG2	2.49	0.42
1:A:163:PRO:CG	1:A:168:SER:HB2	2.50	0.42
1:B:133:SER:CB	1:B:235:THR:CG2	2.94	0.42
1:B:169:LEU:C	1:B:171:ASN:H	2.23	0.42
1:B:185:ILE:HD12	1:B:186:LEU:O	2.20	0.42
1:B:243:GLY:O	1:B:244:SER:CB	2.66	0.42
1:B:315:ALA:CA	1:B:318:SER:HB2	2.49	0.42
1:B:315:ALA:HB1	1:B:318:SER:HB3	1.72	0.42
1:B:87:SER:HA	1:B:231:ARG:HD2	2.01	0.42
1:B:93:LEU:HD12	1:B:138:TYR:CE1	2.54	0.42
1:C:75:VAL:HG12	1:C:76:SER:N	2.35	0.42
1:A:258:ASP:OD1	1:A:259:GLY:N	2.52	0.42
1:A:279:HIS:O	1:A:280:PHE:N	2.42	0.42
1:A:313:GLU:HB2	1:A:315:ALA:CA	2.50	0.42
1:A:289:THR:CG2	1:A:321:TRP:CZ3	3.03	0.42
1:B:336:VAL:CG1	1:B:336:VAL:O	2.67	0.42
1:A:185:ILE:HD12	1:A:186:LEU:O	2.20	0.42
1:A:101:PRO:CG	1:A:217:TYR:HD2	2.26	0.42
1:A:134:LEU:N	1:A:233:GLU:O	2.44	0.42
1:A:93:LEU:HD12	1:A:138:TYR:CE1	2.54	0.42
1:C:130:ARG:NH1	1:C:236:VAL:C	2.70	0.42
1:C:107:VAL:HG11	1:C:283:THR:HG22	2.02	0.42
1:C:292:TYR:CD1	1:C:292:TYR:C	2.93	0.42
1:C:207:VAL:HG11	1:C:329:ARG:NE	2.24	0.42
1:B:149:LYS:CD	1:B:217:TYR:HE1	2.33	0.42
1:B:95:LYS:HZ1	1:B:221:ALA:CB	2.32	0.42
1:B:236:VAL:CG1	1:B:238:LEU:HD11	2.50	0.42
1:A:248:ALA:HB1	1:A:265:TRP:CA	2.38	0.42
1:A:315:ALA:CA	1:A:318:SER:CB	2.97	0.42
1:C:336:VAL:O	1:C:336:VAL:CG1	2.66	0.42
1:A:244:SER:C	1:A:245:THR:HG22	2.31	0.41
1:C:186:LEU:C	1:C:186:LEU:CD2	2.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:269:LYS:C	1:C:277:ASP:CB	2.63	0.41
1:B:292:TYR:C	1:B:292:TYR:CD1	2.94	0.41
1:A:141:MET:CG	1:A:141:MET:O	2.46	0.41
1:A:130:ARG:HB2	1:A:237:GLN:CA	2.49	0.41
1:A:236:VAL:CG1	1:A:238:LEU:HD11	2.49	0.41
1:C:264:SER:OG	1:C:265:TRP:CA	2.69	0.41
1:C:269:LYS:CE	1:C:270:GLY:O	2.63	0.41
1:C:88:GLU:O	1:C:231:ARG:HB3	2.05	0.41
1:B:315:ALA:CA	1:B:318:SER:CB	2.97	0.41
1:B:289:THR:CG2	1:B:321:TRP:CZ3	3.03	0.41
1:B:254:ALA:O	1:B:257:LYS:N	2.38	0.41
1:A:154:PHE:CZ	1:A:156:ARG:CA	3.01	0.41
1:A:197:VAL:CG2	1:A:198:ALA:H	2.34	0.41
1:A:149:LYS:CD	1:A:217:TYR:HE1	2.34	0.41
1:C:93:LEU:CD1	1:C:138:TYR:HE1	2.33	0.41
1:C:199:ASP:CA	1:C:265:TRP:CD1	3.02	0.41
1:B:125:GLN:HA	1:B:243:GLY:N	2.34	0.41
1:B:139:SER:HA	1:B:140:PRO:HD3	1.13	0.41
1:C:141:MET:O	1:C:141:MET:CG	2.46	0.41
1:A:93:LEU:CD1	1:A:138:TYR:HE1	2.33	0.41
1:A:291:PHE:CD2	1:A:345:LYS:O	2.73	0.41
1:B:264:SER:OG	1:B:265:TRP:CA	2.69	0.41
1:A:130:ARG:CG	1:A:131:PHE:N	2.79	0.41
1:A:151:ALA:HA	1:A:177:SER:CB	2.21	0.41
1:C:185:ILE:HD12	1:C:186:LEU:O	2.20	0.41
1:C:278:CYS:O	1:C:333:VAL:O	2.37	0.41
1:B:154:PHE:CZ	1:B:156:ARG:CA	3.02	0.41
1:B:197:VAL:CG2	1:B:198:ALA:H	2.34	0.41
1:B:125:GLN:CA	1:B:243:GLY:HA2	2.27	0.41
1:C:66:TYR:HE2	1:C:183:GLY:CA	2.33	0.41
1:A:306:SER:HB2	1:A:325:LYS:N	2.33	0.41
1:A:126:TYR:O	1:A:242:THR:CG2	2.66	0.41
1:A:128:LYS:O	1:A:238:LEU:HA	2.21	0.41
1:A:163:PRO:HG3	1:A:168:SER:CB	2.47	0.41
1:C:135:ARG:N	1:C:233:GLU:O	2.54	0.41
1:B:136:PHE:CE2	1:B:212:LEU:HD13	2.56	0.41
1:B:289:THR:O	1:B:290:LEU:CG	2.69	0.41
1:A:341:GLN:O	1:A:342:PRO:C	2.58	0.41
1:C:269:LYS:O	1:C:277:ASP:CA	2.57	0.41
1:C:315:ALA:CA	1:C:318:SER:CB	2.97	0.41
1:B:120:ILE:HG13	1:B:350:ARG:HH12	1.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:249:GLN:HG3	1:A:263:VAL:O	2.21	0.41
1:B:249:GLN:HG3	1:B:263:VAL:O	2.21	0.41
1:A:297:VAL:HG12	1:A:336:VAL:HG11	0.98	0.41
1:B:337:THR:OG1	1:B:343:LYS:NZ	2.42	0.41
1:C:249:GLN:HG3	1:C:263:VAL:O	2.21	0.41
1:C:289:THR:O	1:C:290:LEU:CG	2.69	0.41
1:C:90:ILE:HD13	1:C:90:ILE:HG21	1.83	0.41
1:B:93:LEU:CD1	1:B:138:TYR:CE1	3.03	0.41
1:A:264:SER:OG	1:A:265:TRP:CA	2.69	0.41
1:A:253:PHE:CZ	1:A:268:THR:HG21	2.56	0.41
1:B:262:LEU:HD23	1:B:262:LEU:HA	1.71	0.41
1:A:111:SER:HB3	1:A:197:VAL:HG21	2.02	0.41
1:A:172:ILE:HG21	1:A:172:ILE:HD13	1.88	0.41
1:A:135:ARG:N	1:A:233:GLU:O	2.54	0.41
1:A:93:LEU:CD1	1:A:138:TYR:CE1	3.03	0.41
1:C:136:PHE:CG	1:C:212:LEU:HD21	2.56	0.41
1:C:191:ASP:HB2	1:C:192:SER:H	1.41	0.41
1:C:231:ARG:CG	1:C:232:VAL:H	2.27	0.41
1:C:253:PHE:CZ	1:C:268:THR:HG21	2.56	0.41
1:C:308:PHE:HE1	1:C:333:VAL:CG1	2.34	0.41
1:C:252:ASP:OD1	1:C:345:LYS:HG2	2.20	0.41
1:C:252:ASP:OD2	1:C:345:LYS:HG2	2.16	0.41
1:C:86:GLY:O	1:C:87:SER:CB	2.69	0.41
1:C:120:ILE:HD13	1:C:120:ILE:HG21	1.87	0.41
1:C:93:LEU:CD1	1:C:138:TYR:CE1	3.03	0.41
1:C:291:PHE:CD2	1:C:345:LYS:O	2.73	0.41
1:C:313:GLU:HB2	1:C:315:ALA:CA	2.50	0.41
1:C:95:LYS:HB3	1:C:96:ASN:H	1.60	0.41
1:B:128:LYS:O	1:B:238:LEU:HA	2.21	0.41
1:B:130:ARG:CG	1:B:131:PHE:N	2.79	0.41
1:B:313:GLU:HB2	1:B:315:ALA:CA	2.50	0.41
1:A:308:PHE:HE1	1:A:333:VAL:CG1	2.34	0.41
1:B:248:ALA:CB	1:B:249:GLN:HB2	2.47	0.41
1:B:296:PRO:HB2	1:B:297:VAL:H	0.85	0.41
1:C:55:VAL:O	1:C:57:ARG:N	2.52	0.41
1:C:130:ARG:HB2	1:C:237:GLN:CA	2.49	0.41
1:C:176:VAL:O	1:C:176:VAL:CG1	2.69	0.41
1:C:128:LYS:O	1:C:238:LEU:HA	2.21	0.41
1:B:93:LEU:CD1	1:B:138:TYR:HE1	2.33	0.41
1:A:289:THR:O	1:A:290:LEU:CG	2.69	0.41
1:C:197:VAL:CG2	1:C:198:ALA:H	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:163:PRO:CG	1:B:168:SER:HB2	2.50	0.40
1:B:134:LEU:N	1:B:233:GLU:O	2.44	0.40
1:B:135:ARG:N	1:B:233:GLU:O	2.54	0.40
1:B:302:ASN:HB3	1:B:308:PHE:CD1	2.56	0.40
1:B:291:PHE:CD2	1:B:345:LYS:O	2.73	0.40
1:A:302:ASN:HB3	1:A:308:PHE:CD1	2.56	0.40
1:B:294:LYS:O	1:B:296:PRO:CG	2.65	0.40
1:A:130:ARG:HB3	1:A:131:PHE:H	1.46	0.40
1:A:176:VAL:CG1	1:A:176:VAL:O	2.69	0.40
1:C:82:ILE:HD13	1:C:238:LEU:HD22	2.03	0.40
1:C:71:THR:HG23	1:C:87:SER:OG	2.03	0.40
1:C:75:VAL:CG2	1:C:75:VAL:N	2.84	0.40
1:C:296:PRO:HD2	1:C:337:THR:CG2	2.49	0.40
1:A:136:PHE:CG	1:A:212:LEU:HD21	2.56	0.40
1:C:278:CYS:HB3	1:C:333:VAL:C	2.35	0.40
1:C:302:ASN:HB3	1:C:308:PHE:CD1	2.56	0.40
1:C:313:GLU:HG2	1:C:313:GLU:H	1.62	0.40
1:C:91:THR:HG23	1:C:92:THR:N	2.36	0.40
1:B:136:PHE:CG	1:B:212:LEU:HD21	2.56	0.40
1:B:308:PHE:HE1	1:B:333:VAL:CG1	2.34	0.40
1:B:299:GLY:HA2	1:B:335:MET:HG2	2.03	0.40
1:A:246:SER:CB	1:A:263:VAL:HG13	2.52	0.40
1:C:341:GLN:HE21	1:C:341:GLN:HB2	1.72	0.40
1:A:190:THR:HG22	1:A:191:ASP:O	2.22	0.40
1:A:86:GLY:O	1:A:87:SER:CB	2.69	0.40
1:C:149:LYS:CD	1:C:217:TYR:HE1	2.33	0.40
1:C:93:LEU:HD12	1:C:138:TYR:CE1	2.54	0.40
1:B:149:LYS:HG2	1:B:150:VAL:H	1.87	0.40
1:B:176:VAL:CG1	1:B:176:VAL:O	2.69	0.40
1:B:190:THR:HG22	1:B:191:ASP:O	2.22	0.40
1:C:297:VAL:HG12	1:C:336:VAL:HG11	0.98	0.40
1:A:91:THR:HG23	1:A:92:THR:N	2.36	0.40
1:C:119:LEU:C	1:C:121:LYS:H	2.25	0.40
1:B:86:GLY:O	1:B:87:SER:CB	2.69	0.40
1:A:336:VAL:O	1:A:336:VAL:CG1	2.67	0.40
1:B:341:GLN:O	1:B:342:PRO:C	2.58	0.40
1:A:256:VAL:HG13	1:A:257:LYS:N	2.37	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles

### 5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	263/347 (76%)	144 (55%)	60 (23%)	59 (22%)	0	2
1	B	263/347 (76%)	144 (55%)	60 (23%)	59 (22%)	0	2
1	C	291/347 (84%)	161 (55%)	64 (22%)	66 (23%)	0	2
All	All	817/1041 (78%)	449 (55%)	184 (22%)	184 (22%)	0	2

All (184) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	83	THR
1	A	87	SER
1	A	90	ILE
1	A	95	LYS
1	A	96	ASN
1	A	97	THR
1	A	119	LEU
1	A	128	LYS
1	A	140	PRO
1	A	157	ASP
1	A	160	LYS
1	A	166	LEU
1	A	173	GLU
1	A	202	SER
1	A	209	PHE
1	A	227	LEU
1	A	240	ASN
1	A	244	SER
1	A	245	THR
1	A	246	SER
1	A	255	GLY
1	A	290	LEU
1	A	293	GLU
1	A	295	ALA

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Mol	Chain	Res	Type
1	A	307	ASP
1	A	316	ALA
1	A	329	ARG
1	A	339	GLU
1	A	341	GLN
1	B	83	THR
1	B	87	SER
1	B	90	ILE
1	B	95	LYS
1	B	96	ASN
1	B	97	THR
1	B	119	LEU
1	B	128	LYS
1	B	140	PRO
1	B	157	ASP
1	B	160	LYS
1	B	166	LEU
1	B	173	GLU
1	B	202	SER
1	B	209	PHE
1	B	227	LEU
1	B	240	ASN
1	B	244	SER
1	B	245	THR
1	B	246	SER
1	B	255	GLY
1	B	290	LEU
1	B	293	GLU
1	B	295	ALA
1	B	307	ASP
1	B	316	ALA
1	B	329	ARG
1	B	339	GLU
1	B	341	GLN
1	C	55	VAL
1	C	56	THR
1	C	77	THR
1	C	79	ARG
1	C	80	ASP
1	C	83	THR
1	C	87	SER
1	C	90	ILE

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Mol	Chain	Res	Type
1	C	95	LYS
1	C	96	ASN
1	C	97	THR
1	C	119	LEU
1	C	128	LYS
1	C	140	PRO
1	C	157	ASP
1	C	160	LYS
1	C	166	LEU
1	C	173	GLU
1	C	202	SER
1	C	209	PHE
1	C	227	LEU
1	C	240	ASN
1	C	244	SER
1	C	245	THR
1	C	246	SER
1	C	255	GLY
1	C	290	LEU
1	C	293	GLU
1	C	295	ALA
1	C	307	ASP
1	C	316	ALA
1	C	329	ARG
1	C	339	GLU
1	C	341	GLN
1	A	101	PRO
1	A	105	THR
1	A	114	GLY
1	A	115	THR
1	A	116	PHE
1	A	151	ALA
1	A	156	ARG
1	A	158	ALA
1	A	167	ALA
1	A	291	PHE
1	A	292	TYR
1	A	296	PRO
1	A	315	ALA
1	B	101	PRO
1	B	105	THR
1	B	114	GLY

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Mol	Chain	Res	Type
1	B	115	THR
1	B	116	PHE
1	B	151	ALA
1	B	156	ARG
1	B	158	ALA
1	B	167	ALA
1	B	291	PHE
1	B	292	TYR
1	B	296	PRO
1	B	315	ALA
1	C	69	VAL
1	C	101	PRO
1	C	105	THR
1	C	114	GLY
1	C	115	THR
1	C	116	PHE
1	C	151	ALA
1	C	156	ARG
1	C	158	ALA
1	C	167	ALA
1	C	291	PHE
1	C	292	TYR
1	C	296	PRO
1	C	315	ALA
1	A	145	THR
1	A	152	LEU
1	A	263	VAL
1	B	145	THR
1	B	152	LEU
1	B	263	VAL
1	C	145	THR
1	C	152	LEU
1	C	263	VAL
1	A	131	PHE
1	A	205	LYS
1	A	298	SER
1	A	343	LYS
1	B	131	PHE
1	B	205	LYS
1	B	298	SER
1	B	343	LYS
1	C	131	PHE

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Mol	Chain	Res	Type
1	C	205	LYS
1	C	298	SER
1	C	343	LYS
1	A	134	LEU
1	A	163	PRO
1	A	201	ILE
1	A	260	PRO
1	A	300	LEU
1	A	314	ALA
1	B	82	ILE
1	B	134	LEU
1	B	163	PRO
1	B	201	ILE
1	B	260	PRO
1	B	300	LEU
1	B	314	ALA
1	C	163	PRO
1	C	201	ILE
1	C	260	PRO
1	C	300	LEU
1	C	314	ALA
1	A	82	ILE
1	A	313	GLU
1	B	313	GLU
1	C	71	THR
1	C	82	ILE
1	C	134	LEU
1	C	313	GLU
1	A	297	VAL
1	B	297	VAL
1	C	297	VAL
1	A	259	GLY
1	B	259	GLY
1	C	259	GLY

### 5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	215/282 (76%)	178 (83%)	37 (17%)	2	17
1	B	215/282 (76%)	179 (83%)	36 (17%)	3	19
1	C	238/282 (84%)	200 (84%)	38 (16%)	3	21
All	All	668/846 (79%)	557 (83%)	111 (17%)	6	19

All (111) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	89	LEU
1	A	91	THR
1	A	96	ASN
1	A	97	THR
1	A	108	LEU
1	A	117	ASN
1	A	120	ILE
1	A	129	TYR
1	A	134	LEU
1	A	135	ARG
1	A	145	THR
1	A	146	THR
1	A	150	VAL
1	A	152	LEU
1	A	154	PHE
1	A	164	ASN
1	A	165	ASP
1	A	176	VAL
1	A	185	ILE
1	A	192	SER
1	A	199	ASP
1	A	205	LYS
1	A	206	LEU
1	A	208	ASP
1	A	213	ILE
1	A	217	TYR
1	A	234	TYR
1	A	260	PRO
1	A	264	SER
1	A	275	GLU
1	A	276	HIS
1	A	285	ASN
1	A	290	LEU
1	A	292	TYR

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Mol	Chain	Res	Type
1	A	300	LEU
1	A	313	GLU
1	A	339	GLU
1	B	89	LEU
1	B	91	THR
1	B	96	ASN
1	B	97	THR
1	B	108	LEU
1	B	117	ASN
1	B	120	ILE
1	B	129	TYR
1	B	134	LEU
1	B	135	ARG
1	B	145	THR
1	B	146	THR
1	B	150	VAL
1	B	152	LEU
1	B	154	PHE
1	B	164	ASN
1	B	165	ASP
1	B	176	VAL
1	B	185	ILE
1	B	192	SER
1	B	199	ASP
1	B	205	LYS
1	B	206	LEU
1	B	208	ASP
1	B	213	ILE
1	B	217	TYR
1	B	234	TYR
1	B	264	SER
1	B	275	GLU
1	B	276	HIS
1	B	285	ASN
1	B	290	LEU
1	B	292	TYR
1	B	300	LEU
1	B	313	GLU
1	B	339	GLU
1	C	58	LEU
1	C	79	ARG
1	C	89	LEU

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Mol	Chain	Res	Type
1	C	91	THR
1	C	96	ASN
1	C	97	THR
1	C	108	LEU
1	C	117	ASN
1	C	120	ILE
1	C	129	TYR
1	C	134	LEU
1	C	135	ARG
1	C	145	THR
1	C	146	THR
1	C	150	VAL
1	C	152	LEU
1	C	154	PHE
1	C	164	ASN
1	C	165	ASP
1	C	176	VAL
1	C	185	ILE
1	C	192	SER
1	C	199	ASP
1	C	205	LYS
1	C	206	LEU
1	C	208	ASP
1	C	213	ILE
1	C	217	TYR
1	C	234	TYR
1	C	264	SER
1	C	275	GLU
1	C	276	HIS
1	C	285	ASN
1	C	290	LEU
1	C	292	TYR
1	C	300	LEU
1	C	313	GLU
1	C	339	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (36) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	96	ASN
1	A	117	ASN
1	A	118	GLN

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Mol	Chain	Res	Type
1	A	125	GLN
1	A	164	ASN
1	A	171	ASN
1	A	226	GLN
1	A	237	GLN
1	A	240	ASN
1	A	285	ASN
1	A	341	GLN
1	B	96	ASN
1	B	109	ASN
1	B	117	ASN
1	B	118	GLN
1	B	125	GLN
1	B	164	ASN
1	B	171	ASN
1	B	226	GLN
1	B	237	GLN
1	B	240	ASN
1	B	285	ASN
1	B	341	GLN
1	C	72	GLN
1	C	96	ASN
1	C	109	ASN
1	C	118	GLN
1	C	125	GLN
1	C	164	ASN
1	C	171	ASN
1	C	226	GLN
1	C	237	GLN
1	C	240	ASN
1	C	249	GLN
1	C	285	ASN
1	C	341	GLN

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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



## 5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

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

There are no chain breaks in this entry.