Full wwPDB X-ray Structure Validation Report (i)

Feb 28, 2014 – 03:15 AM GMT

PDB ID	:	2AAZ
Title	:	Cryptococcus neoformans thymidylate synthase complexed with substrate and an antifolate
Authors	:	Finer-Moore, J.S.; Anderson, A.C.; O'Neil, R.H.; Costi, M.P.; Ferrari, S.; Krucinski, J.; Stroud, R.M.
Deposited on	:	2005-07-14
Resolution	:	2.08 Å(reported)

This is a full wwPDB validation report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at http://wwpdb.org/ValidationPDFNotes.html

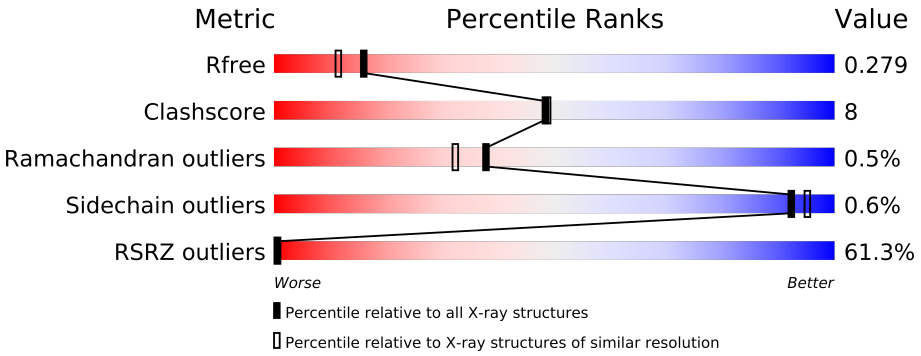
The following versions of software and data (see references) were used in the production of this report:

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

1 Overall quality at a glance

The reported resolution of this entry is 2.08 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	66092	3396 (2.10-2.06)
Clashscore	79885	4085 (2.10-2.06)
Ramachandran outliers	78287	4045 (2.10-2.06)
Sidechain outliers	78261	4046 (2.10-2.06)
RSRZ outliers	66119	3397 (2.10-2.06)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	1-A	317	
1	1-B	317	
1	1-C	317	
1	1-D	317	
1	1-E	317	
1	1-F	317	
1	1-G	317	
1	1-H	317	
1	1-I	317	
1	1-J	317	
1	1-K	317	
1	1-L	317	
1	1-M	317	
1	1-N	317	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	1-O	317	
1	1-P	317	
1	2-A	317	
1	2-B	317	
1	2-C	317	
1	2-D	317	
1	2-E	317	
1	2-F	317	
1	2-G	317	
1	2-H	317	
1	2-I	317	
1	2-J	317	
1	2-K	317	
1	2-L	317	
1	2-M	317	
1	2-N	317	
1	2-O	317	
1	2-P	317	
1	3-A	317	
1	3-B	317	
1	3-C	317	
1	3-D	317	
1	3-E	317	
1	3-F	317	
1	3-G	317	
1	3-H	317	
1	3-I	317	
1	3-J	317	
1	3-K	317	
1	3-L	317	
1	3-M	317	
1	3-N	317	
1	3-O	317	
1	3-P	317	
1	4-A	317	
1	4-B	317	
1	4-C	317	
1	4-D	317	
1	4-E	317	
1	4-F	317	
1	4-G	317	
1	4-H	317	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	4-I	317	
1	4-J	317	
1	4-K	317	
1	4-L	317	
1	4-M	317	
1	4-N	317	
1	4-O	317	
1	4-P	317	

The following table lists non-polymeric compounds that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Geometry	Electron density
2	UMP	1-I	350[A]	-	X
2	UMP	1-J	400[A]	-	X
2	UMP	1-K	450[A]	-	X
2	UMP	1-N	600[A]	-	X
2	UMP	1-P	700[A]	-	X
2	UMP	2-I	350[B]	-	X
2	UMP	2-J	400[B]	-	X
2	UMP	2-K	450[B]	-	X
2	UMP	2-N	600[B]	-	X
2	UMP	2-P	700[B]	-	X
2	UMP	3-I	350[C]	-	X
2	UMP	3-J	400[C]	-	X
2	UMP	3-K	450[C]	-	X
2	UMP	3-N	600[C]	-	X
2	UMP	3-P	700[C]	-	X
2	UMP	4-I	350[D]	-	X
2	UMP	4-J	400[D]	-	X
2	UMP	4-K	450[D]	-	X
2	UMP	4-N	600[D]	-	X
2	UMP	4-P	700[D]	-	X

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 161392 atoms, of which 0 are hydrogen and 0 are deuterium.

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

- Molecule 1 is a protein called Thymidylate synthase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	1-A	305	Total	C	N	O	S	0	305	0
			2427	1553	419	442	13			
1	1-B	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	1-C	305	Total	C	N	O	S	0	305	0
			2427	1553	419	442	13			
1	1-D	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	1-E	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	1-F	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	1-G	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	1-H	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	1-I	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	1-J	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	1-K	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	1-L	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	1-M	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	1-N	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	1-O	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	1-P	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	2-A	305	Total	C	N	O	S	0	305	0
			2427	1553	419	442	13			
1	2-B	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	2-C	305	Total	C	N	O	S	0	305	0
			2427	1553	419	442	13			
1	2-D	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	2-E	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	2-F	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	2-G	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	2-H	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	2-I	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	2-J	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	2-K	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	2-L	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	2-M	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	2-N	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	2-O	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	2-P	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	3-A	305	Total	C	N	O	S	0	305	0
			2427	1553	419	442	13			
1	3-B	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	3-C	305	Total	C	N	O	S	0	305	0
			2427	1553	419	442	13			
1	3-D	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	3-E	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			

Continued on next page...

Continued from previous page...

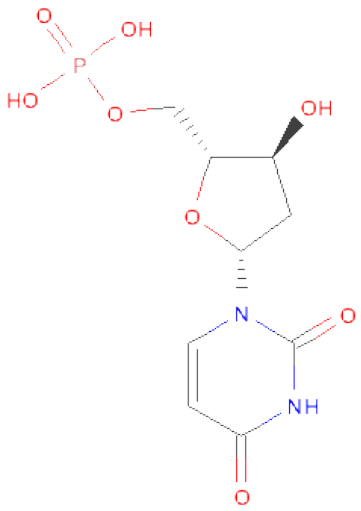
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	3-F	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	3-G	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	3-H	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	3-I	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	3-J	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	3-K	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	3-L	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	3-M	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	3-N	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	3-O	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	3-P	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	4-A	305	Total	C	N	O	S	0	305	0
			2427	1553	419	442	13			
1	4-B	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	4-C	305	Total	C	N	O	S	0	305	0
			2427	1553	419	442	13			
1	4-D	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	4-E	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	4-F	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	4-G	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	4-H	305	Total	C	N	O	S	0	305	0
			2431	1555	419	444	13			
1	4-I	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	4-J	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	4-K	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	4-L	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	4-M	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	4-N	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	4-O	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			
1	4-P	299	Total	C	N	O	S	0	299	0
			2387	1532	409	433	13			

- Molecule 2 is 2'-DEOXYURIDINE 5'-MONOPHOSPHATE (three-letter code: UMP) (formula: $C_9H_{13}N_2O_8P$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	1-A	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	1-B	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	1-C	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	1-D	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	1-E	1	Total	C	N	O	P	0	1
			20	9	2	8	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	1-F	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	1-G	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	1-H	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	1-I	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	1-J	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	1-K	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	1-L	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	1-M	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	1-N	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	1-O	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	1-P	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	2-A	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	2-B	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	2-C	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	2-D	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	2-E	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	2-F	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	2-G	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	2-H	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	2-I	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	2-J	1	Total	C	N	O	P	0	1
			20	9	2	8	1		

Continued on next page...

Continued from previous page...

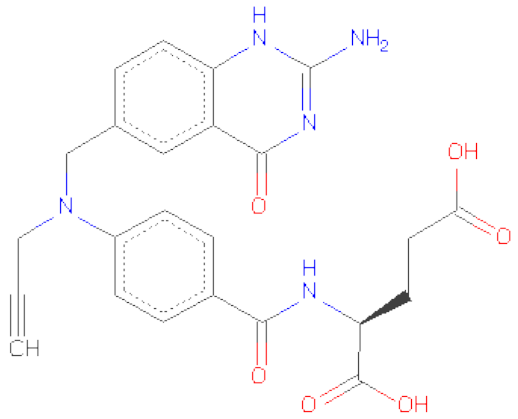
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	2-K	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	2-L	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	2-M	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	2-N	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	2-O	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	2-P	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	3-A	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	3-B	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	3-C	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	3-D	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	3-E	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	3-F	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	3-G	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	3-H	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	3-I	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	3-J	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	3-K	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	3-L	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	3-M	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	3-N	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	3-O	1	Total	C	N	O	P	0	1
			20	9	2	8	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	3-P	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	4-A	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	4-B	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	4-C	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	4-D	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	4-E	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	4-F	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	4-G	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	4-H	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	4-I	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	4-J	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	4-K	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	4-L	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	4-M	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	4-N	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	4-O	1	Total	C	N	O	P	0	1
			20	9	2	8	1		
2	4-P	1	Total	C	N	O	P	0	1
			20	9	2	8	1		

- Molecule 3 is 10-PROPARGYL-5,8-DIDEAZAFOLICACID (three-letter code: CB3) (formula: $C_{24}H_{23}N_5O_6$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	1-A	1	Total	C	N	O	0	1
			35	24	5	6		
3	1-B	1	Total	C	N	O	0	1
			35	24	5	6		
3	1-C	1	Total	C	N	O	0	1
			35	24	5	6		
3	1-D	1	Total	C	N	O	0	1
			35	24	5	6		
3	1-E	1	Total	C	N	O	0	1
			35	24	5	6		
3	1-F	1	Total	C	N	O	0	1
			35	24	5	6		
3	1-G	1	Total	C	N	O	0	1
			35	24	5	6		
3	1-H	1	Total	C	N	O	0	1
			35	24	5	6		
3	2-A	1	Total	C	N	O	0	1
			35	24	5	6		
3	2-B	1	Total	C	N	O	0	1
			35	24	5	6		
3	2-C	1	Total	C	N	O	0	1
			35	24	5	6		
3	2-D	1	Total	C	N	O	0	1
			35	24	5	6		
3	2-E	1	Total	C	N	O	0	1
			35	24	5	6		
3	2-F	1	Total	C	N	O	0	1
			35	24	5	6		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	2-G	1	Total	C	N	O	0	1
			35	24	5	6		
3	2-H	1	Total	C	N	O	0	1
			35	24	5	6		
3	3-A	1	Total	C	N	O	0	1
			35	24	5	6		
3	3-B	1	Total	C	N	O	0	1
			35	24	5	6		
3	3-C	1	Total	C	N	O	0	1
			35	24	5	6		
3	3-D	1	Total	C	N	O	0	1
			35	24	5	6		
3	3-E	1	Total	C	N	O	0	1
			35	24	5	6		
3	3-F	1	Total	C	N	O	0	1
			35	24	5	6		
3	3-G	1	Total	C	N	O	0	1
			35	24	5	6		
3	3-H	1	Total	C	N	O	0	1
			35	24	5	6		
3	4-A	1	Total	C	N	O	0	1
			35	24	5	6		
3	4-B	1	Total	C	N	O	0	1
			35	24	5	6		
3	4-C	1	Total	C	N	O	0	1
			35	24	5	6		
3	4-D	1	Total	C	N	O	0	1
			35	24	5	6		
3	4-E	1	Total	C	N	O	0	1
			35	24	5	6		
3	4-F	1	Total	C	N	O	0	1
			35	24	5	6		
3	4-G	1	Total	C	N	O	0	1
			35	24	5	6		
3	4-H	1	Total	C	N	O	0	1
			35	24	5	6		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	1-A	185	Total	O	0	185
			185	185		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	1-B	143	Total O 143 143	0	143
4	1-C	151	Total O 151 151	0	151
4	1-D	148	Total O 148 148	0	148
4	1-E	155	Total O 155 155	0	155
4	1-F	138	Total O 138 138	0	138
4	1-G	153	Total O 153 153	0	153
4	1-H	139	Total O 139 139	0	139
4	2-A	185	Total O 185 185	0	185
4	2-B	143	Total O 143 143	0	143
4	2-C	151	Total O 151 151	0	151
4	2-D	148	Total O 148 148	0	148
4	2-E	155	Total O 155 155	0	155
4	2-F	138	Total O 138 138	0	138
4	2-G	153	Total O 153 153	0	153
4	2-H	139	Total O 139 139	0	139
4	3-A	185	Total O 185 185	0	185
4	3-B	143	Total O 143 143	0	143
4	3-C	151	Total O 151 151	0	151
4	3-D	148	Total O 148 148	0	148
4	3-E	155	Total O 155 155	0	155
4	3-F	138	Total O 138 138	0	138

Continued on next page...

Continued from previous page...

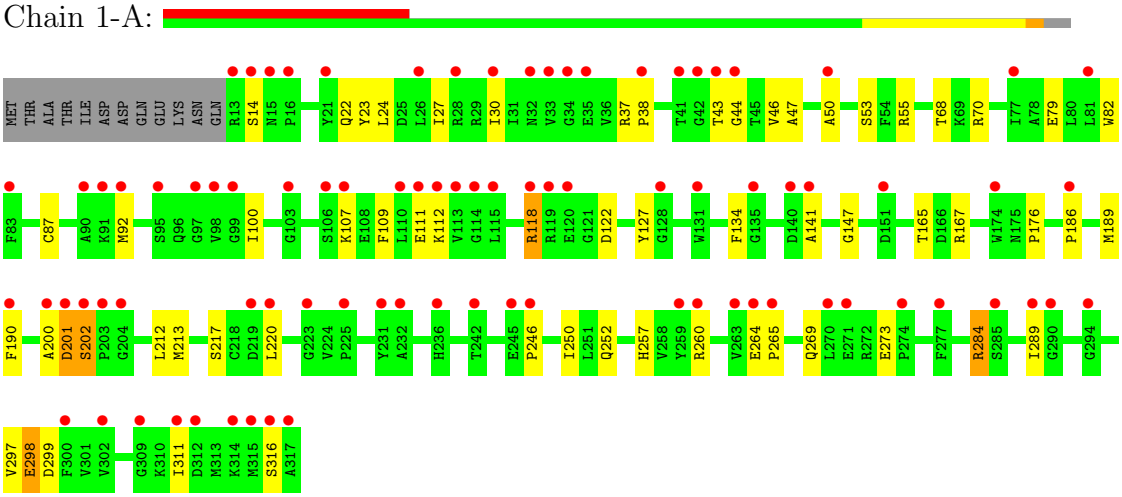
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	3-G	153	Total O 153 153	0	153
4	3-H	139	Total O 139 139	0	139
4	4-A	185	Total O 185 185	0	185
4	4-B	143	Total O 143 143	0	143
4	4-C	151	Total O 151 151	0	151
4	4-D	148	Total O 148 148	0	148
4	4-E	155	Total O 155 155	0	155
4	4-F	138	Total O 138 138	0	138
4	4-G	153	Total O 153 153	0	153
4	4-H	139	Total O 139 139	0	139

3 Residue-property plots (i)

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

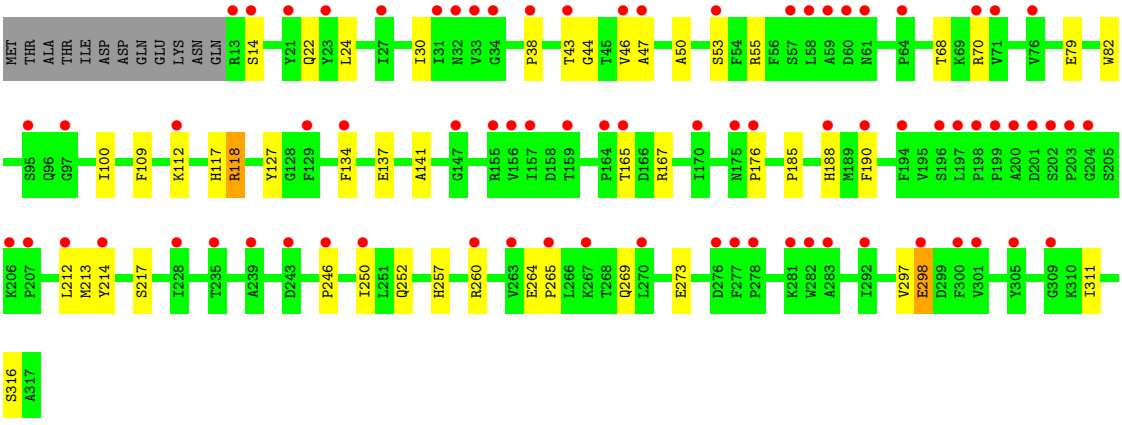
- Molecule 1: Thymidylate synthase

Chain 1-A:



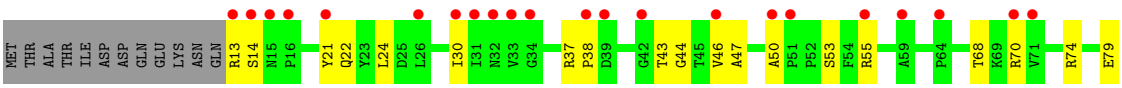
- Molecule 1: Thymidylate synthase

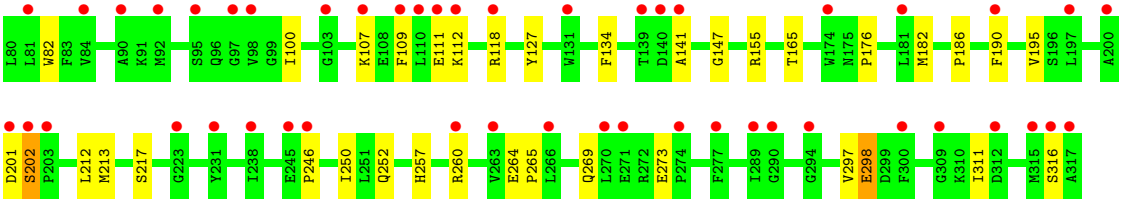
Chain 1-B:



- Molecule 1: Thymidylate synthase

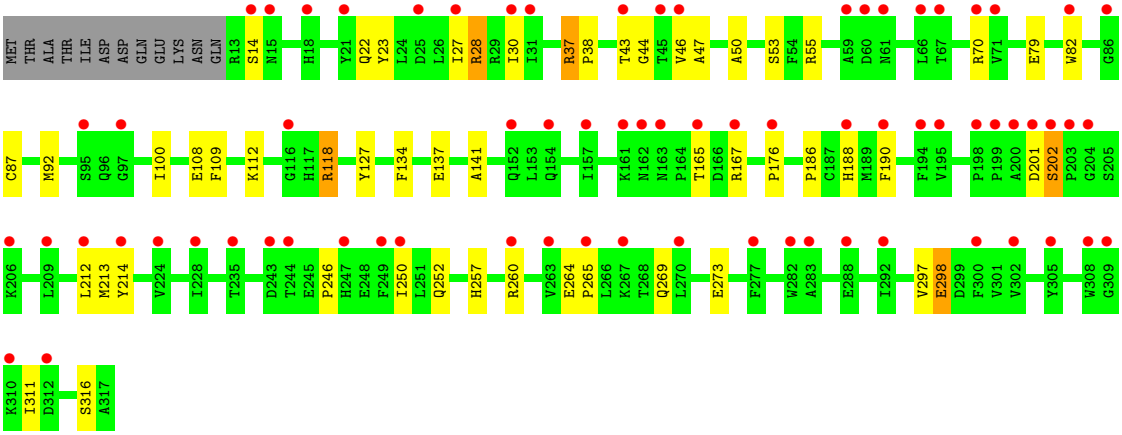
Chain 1-C:





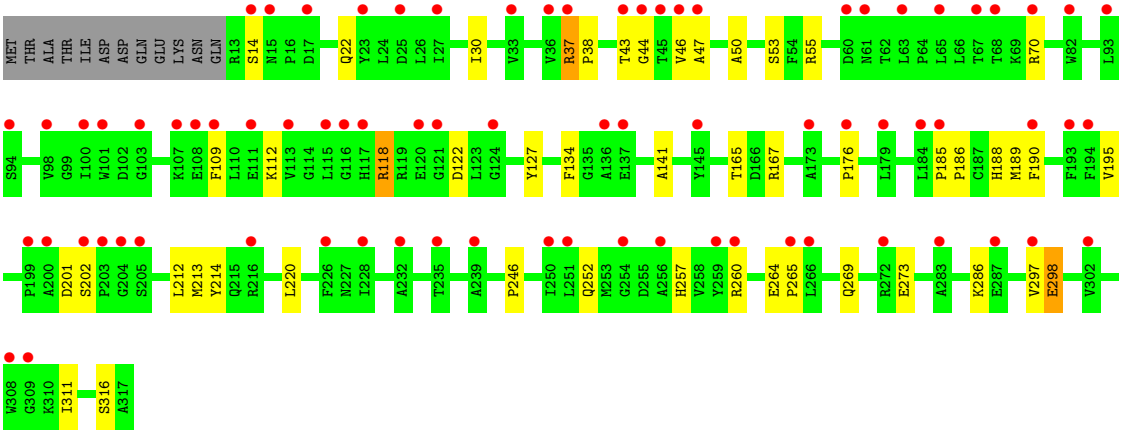
• Molecule 1: Thymidylate synthase

Chain 1-D:



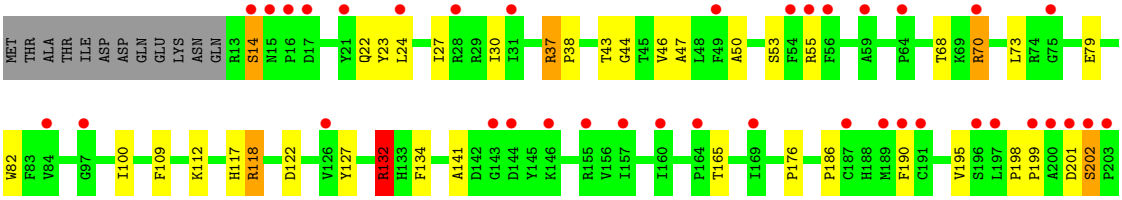
• Molecule 1: Thymidylate synthase

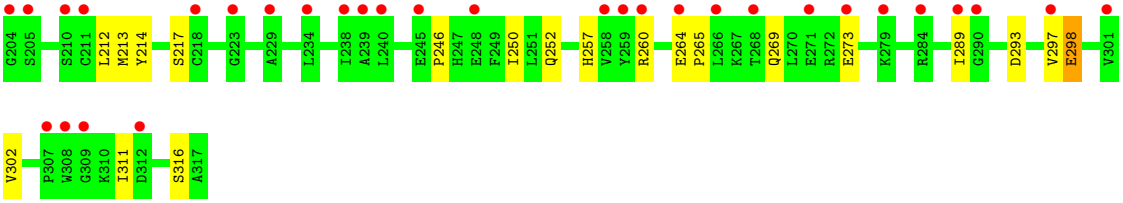
Chain 1-E:



• Molecule 1: Thymidylate synthase

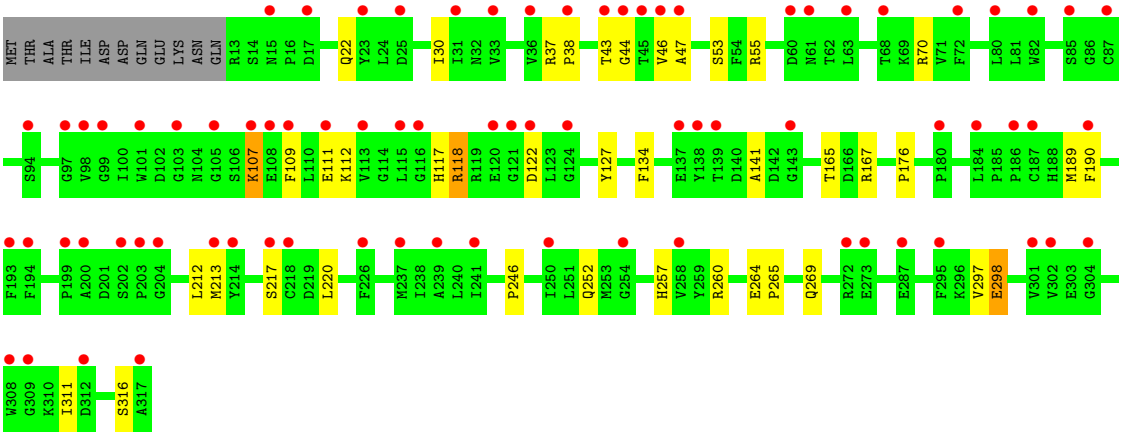
Chain 1-F:





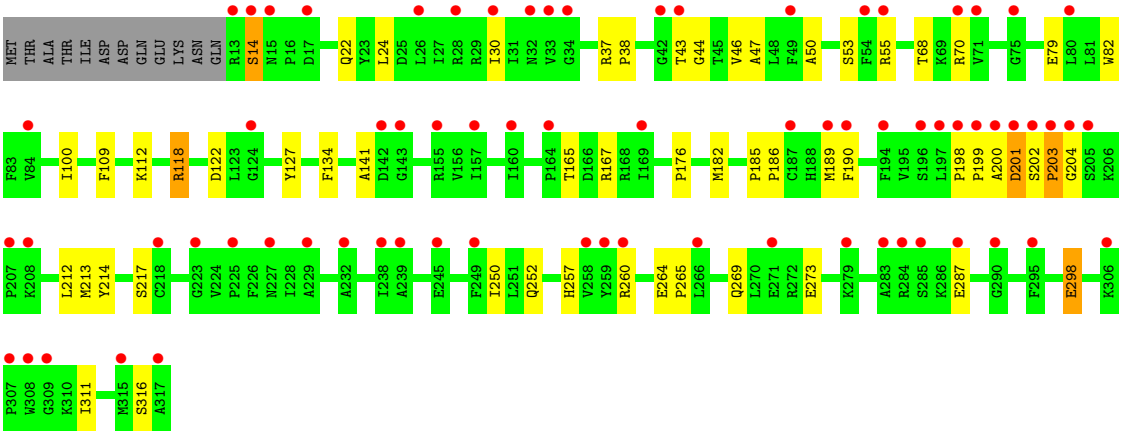
• Molecule 1: Thymidylate synthase

Chain 1-G:



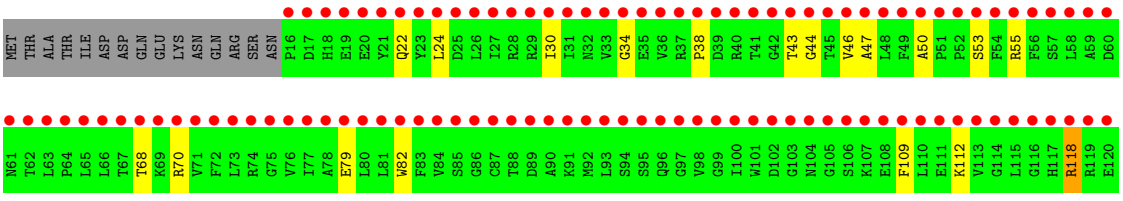
• Molecule 1: Thymidylate synthase

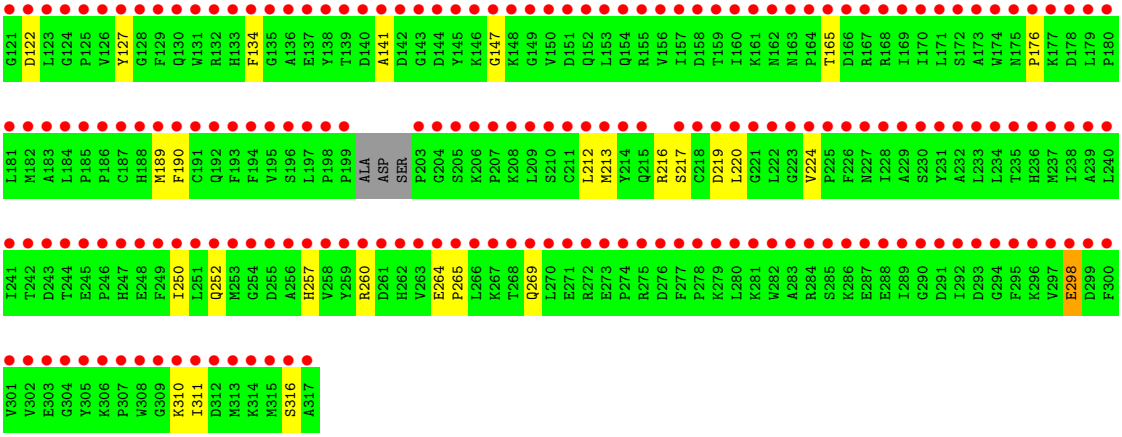
Chain 1-H:



• Molecule 1: Thymidylate synthase

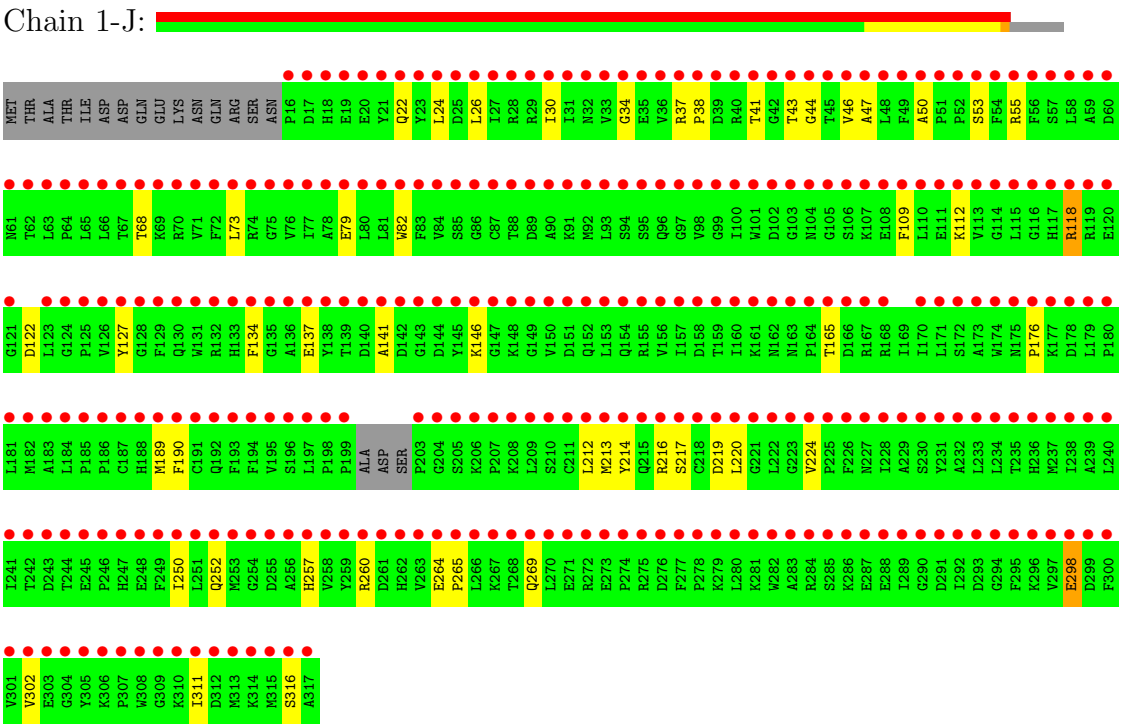
Chain 1-I:





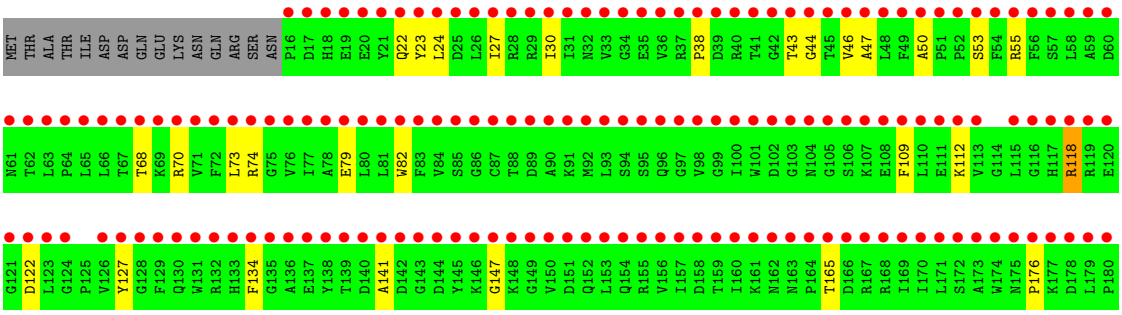
• Molecule 1: Thymidylate synthase

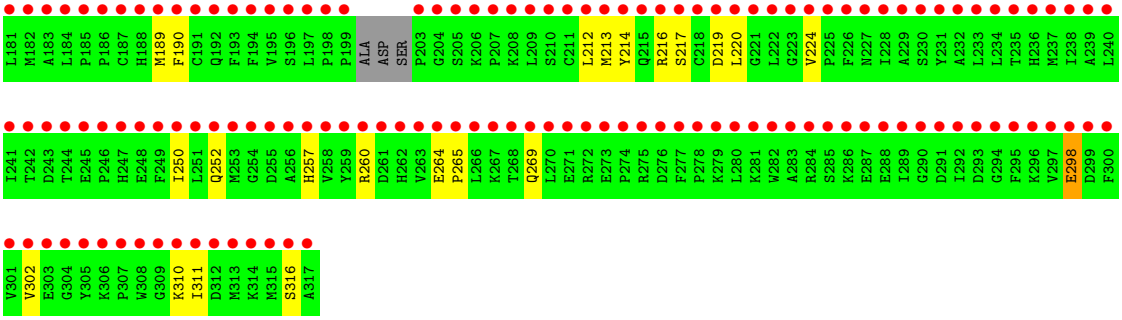
Chain 1-J:



• Molecule 1: Thymidylate synthase

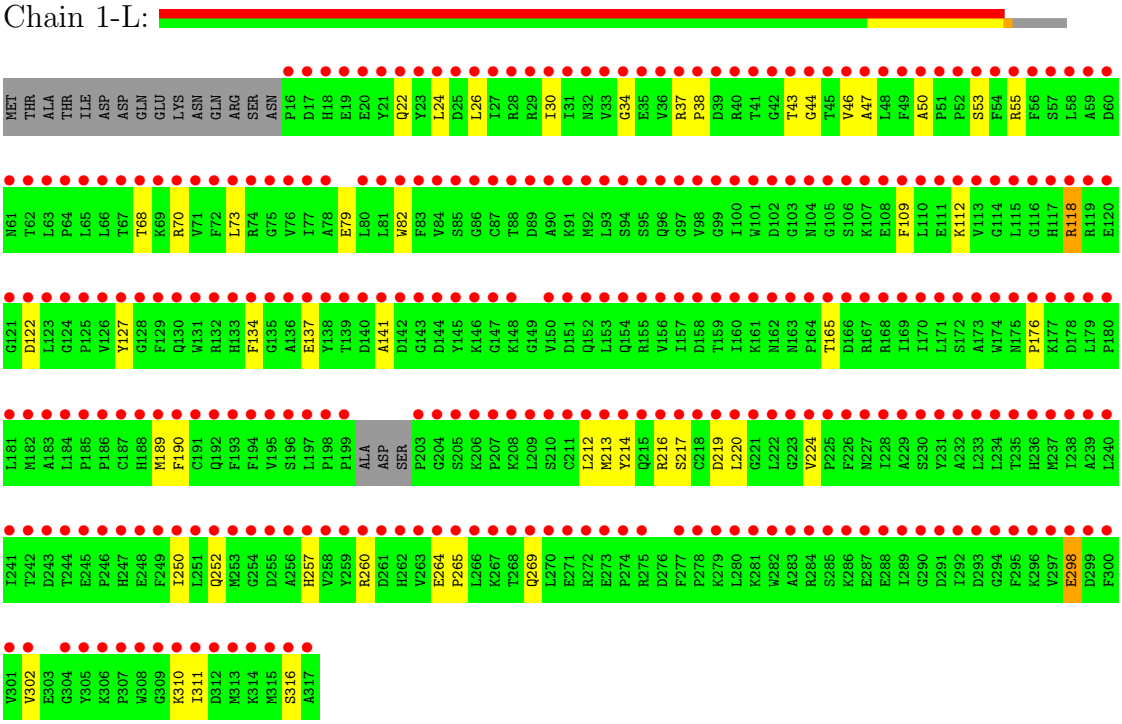
Chain 1-K:





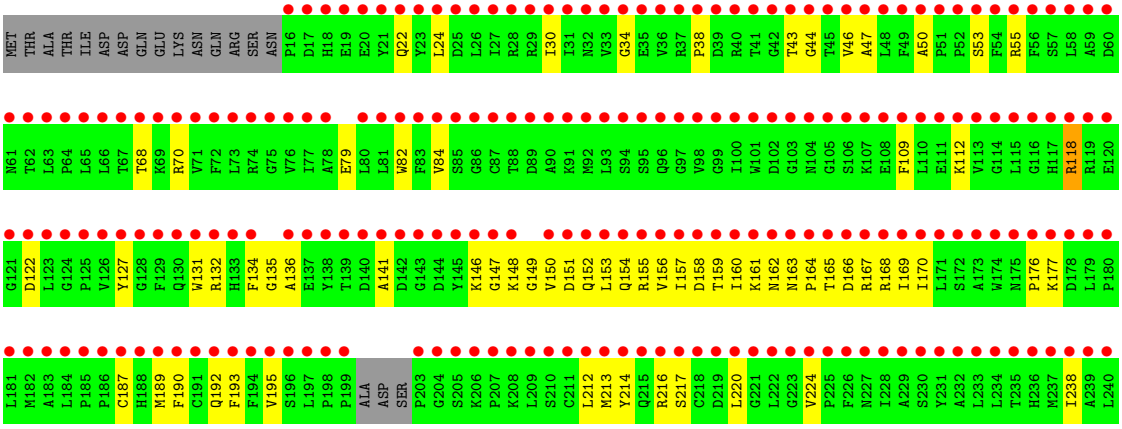
• Molecule 1: Thymidylate synthase

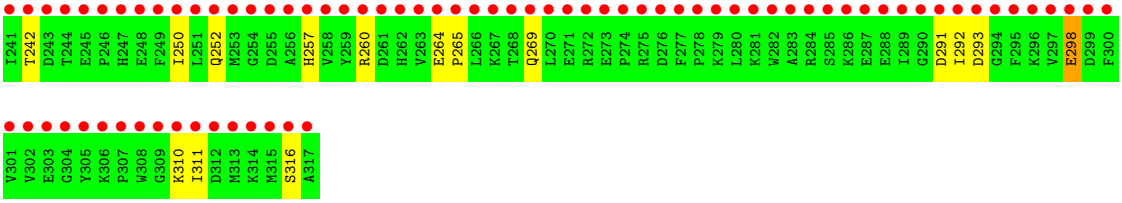
Chain 1-L:



• Molecule 1: Thymidylate synthase

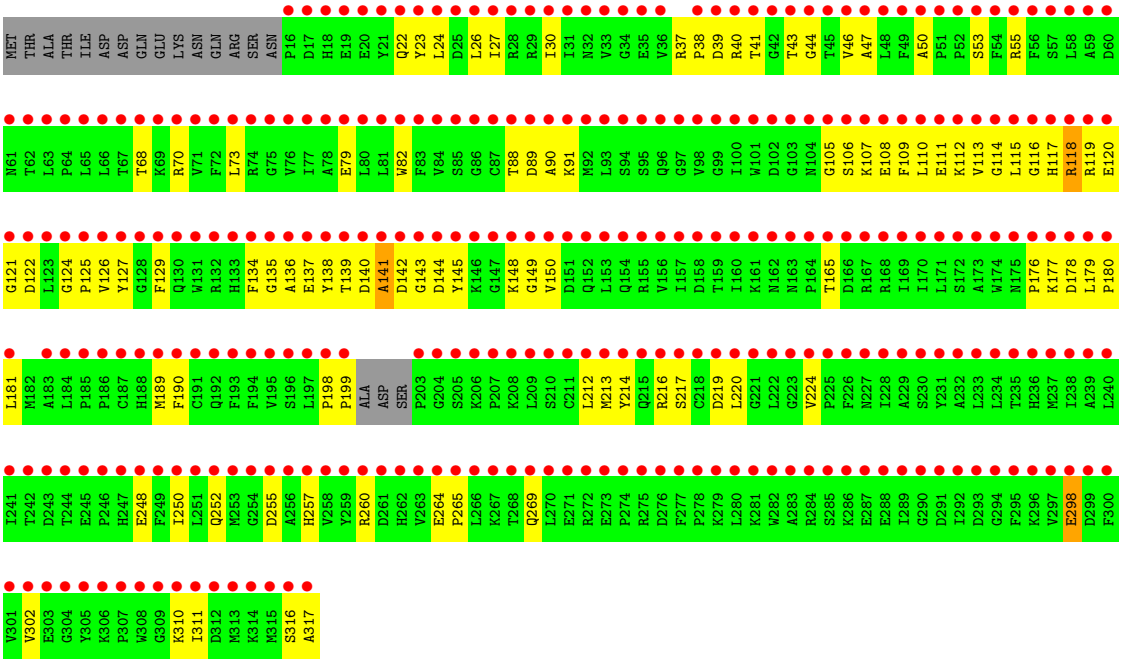
Chain 1-M:





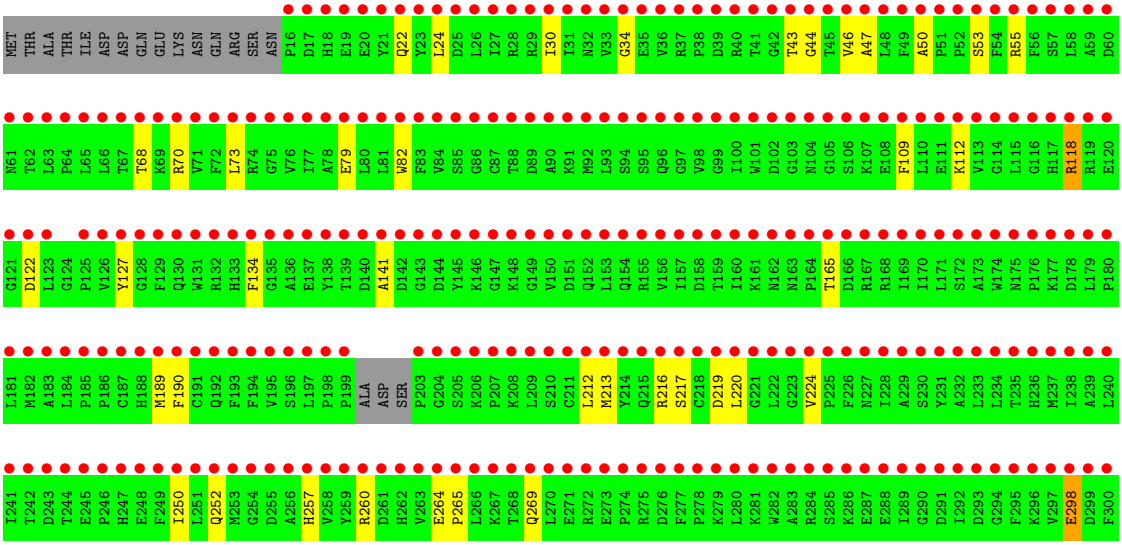
• Molecule 1: Thymidylate synthase

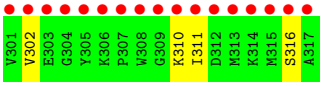
Chain 1-N:



• Molecule 1: Thymidylate synthase

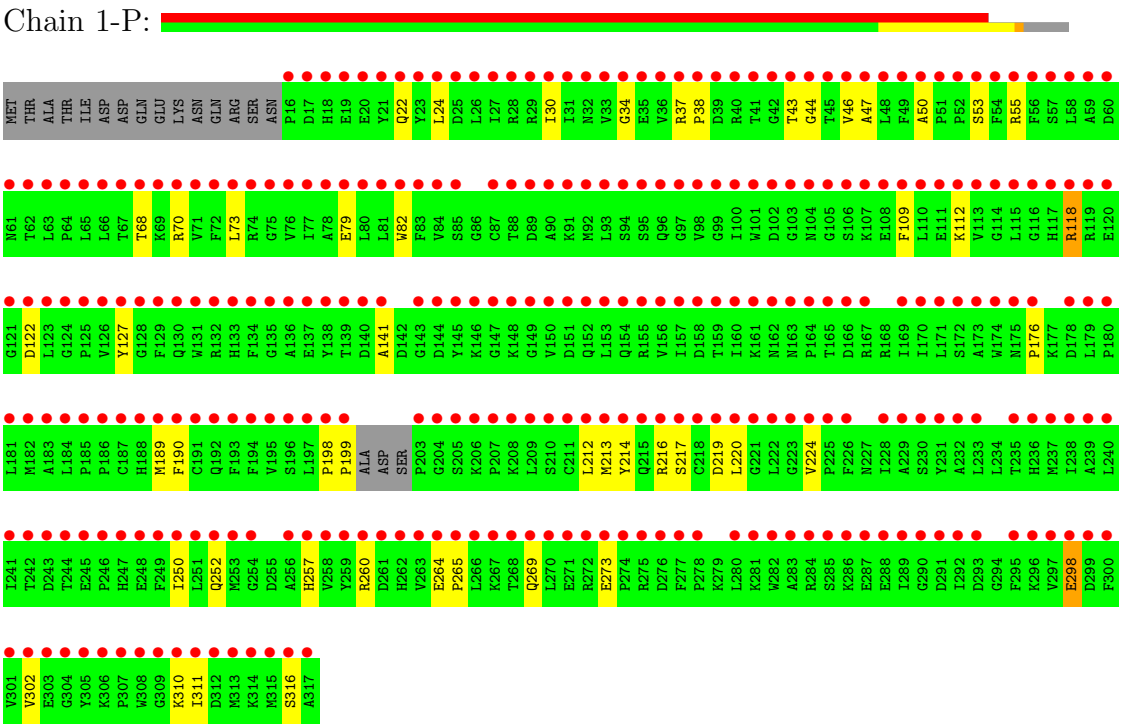
Chain 1-O:





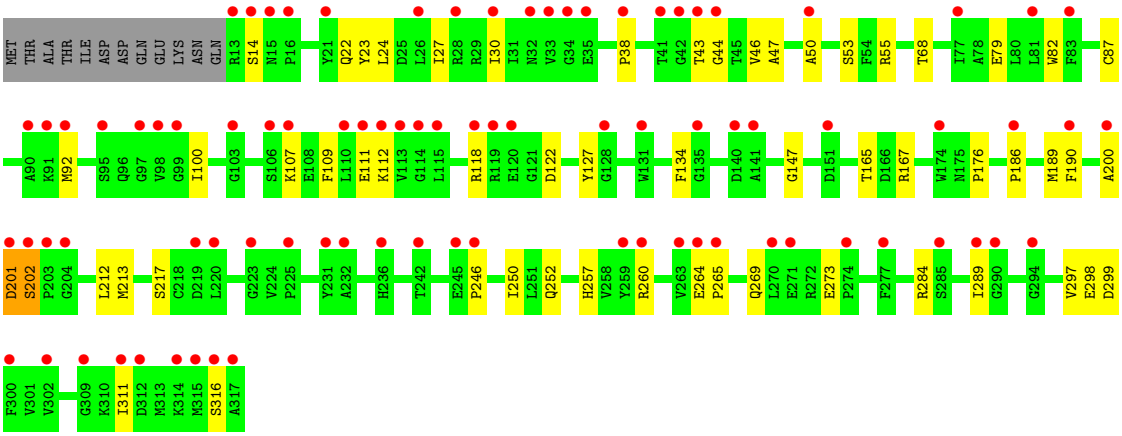
• Molecule 1: Thymidylate synthase

Chain 1-P:



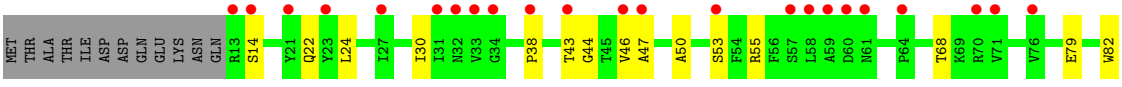
• Molecule 1: Thymidylate synthase

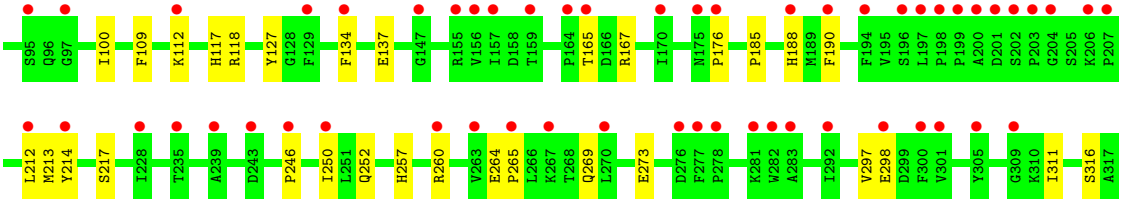
Chain 2-A:



• Molecule 1: Thymidylate synthase

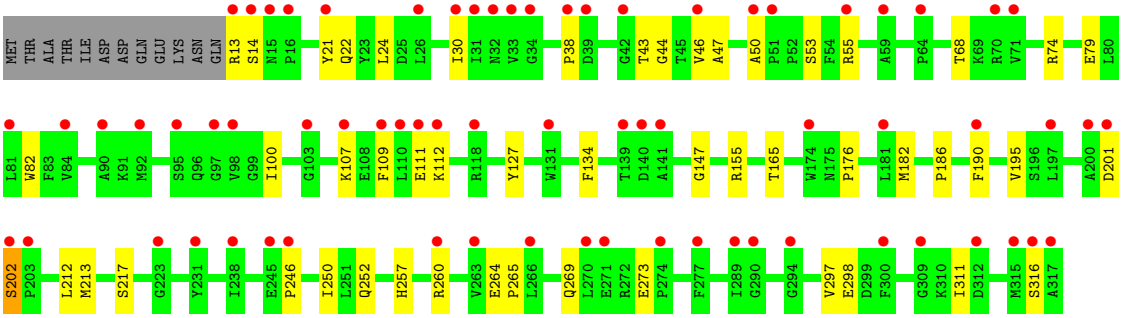
Chain 2-B:





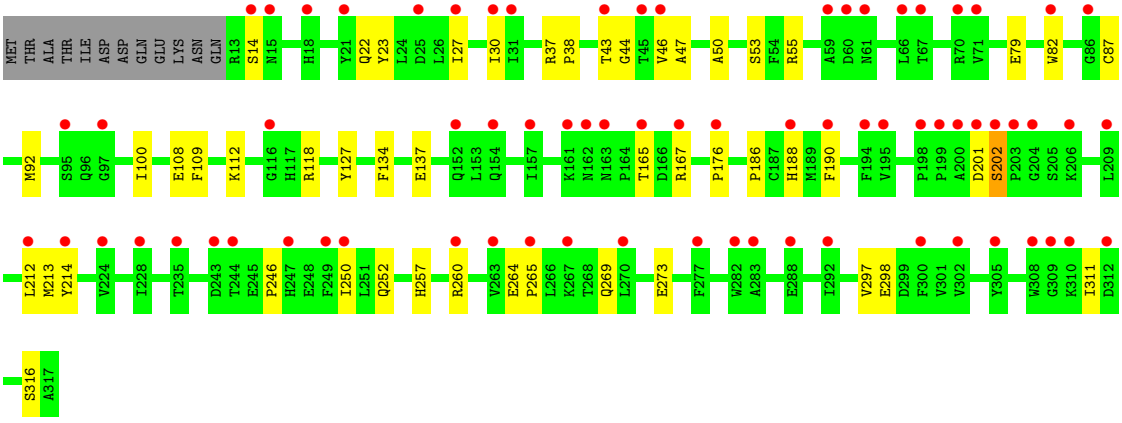
• Molecule 1: Thymidylate synthase

Chain 2-C:



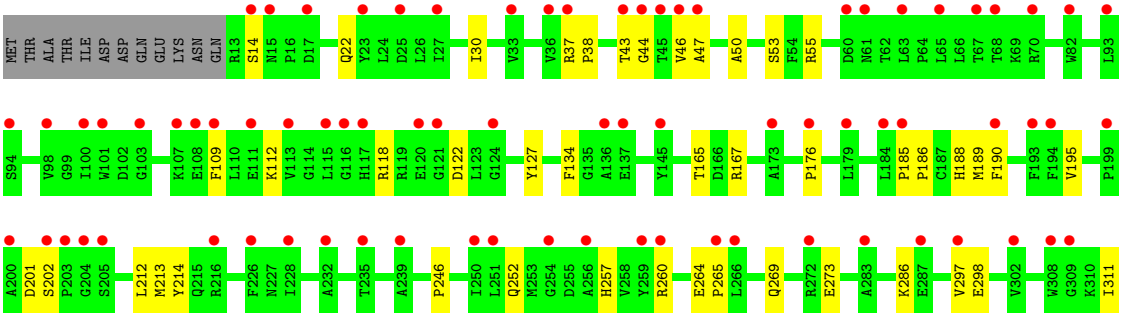
• Molecule 1: Thymidylate synthase

Chain 2-D:



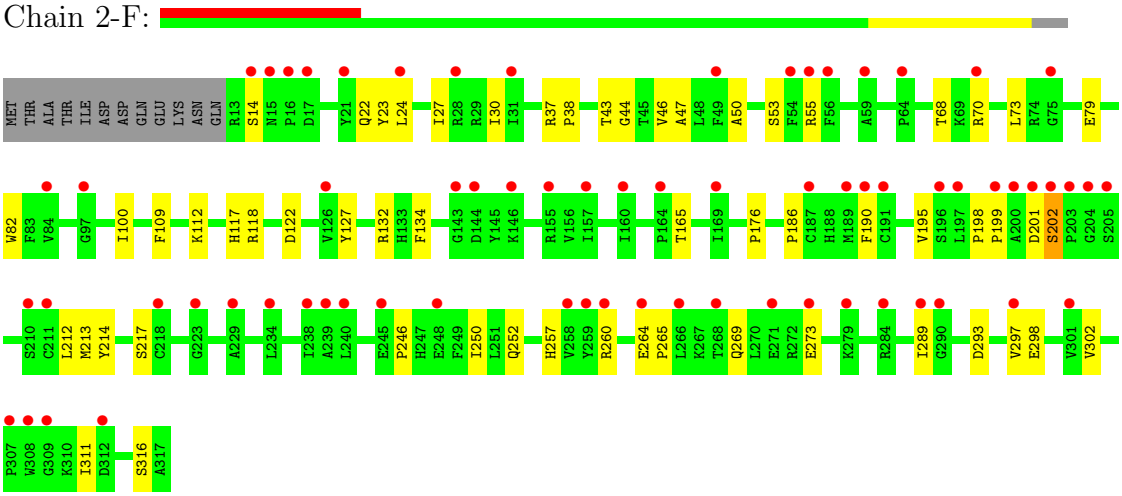
• Molecule 1: Thymidylate synthase

Chain 2-E:



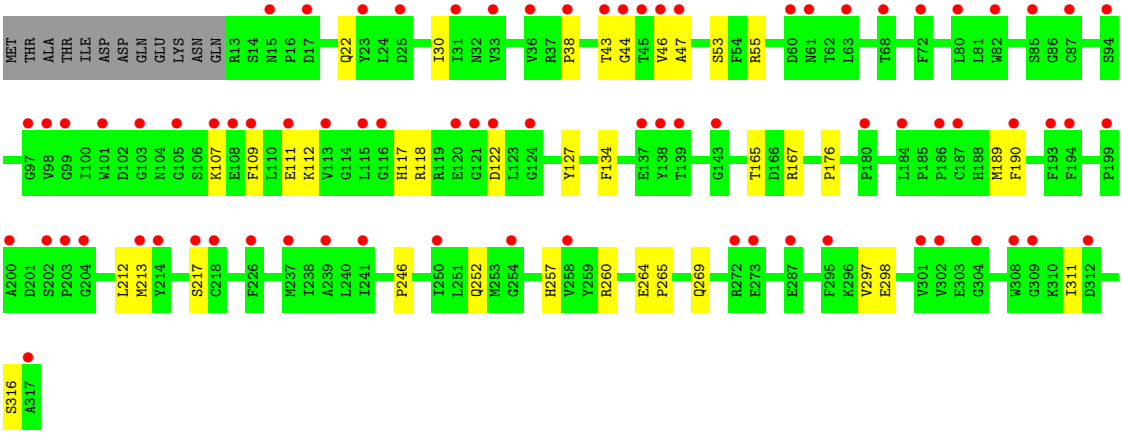
• Molecule 1: Thymidylate synthase

Chain 2-F:



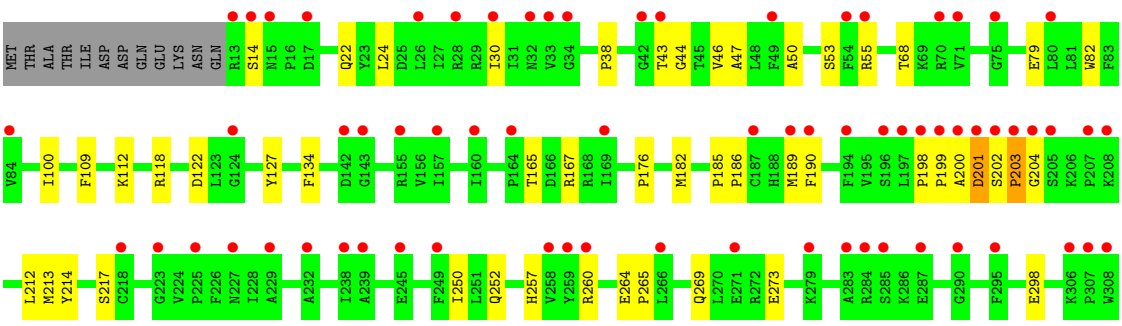
• Molecule 1: Thymidylate synthase

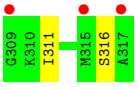
Chain 2-G:



• Molecule 1: Thymidylate synthase

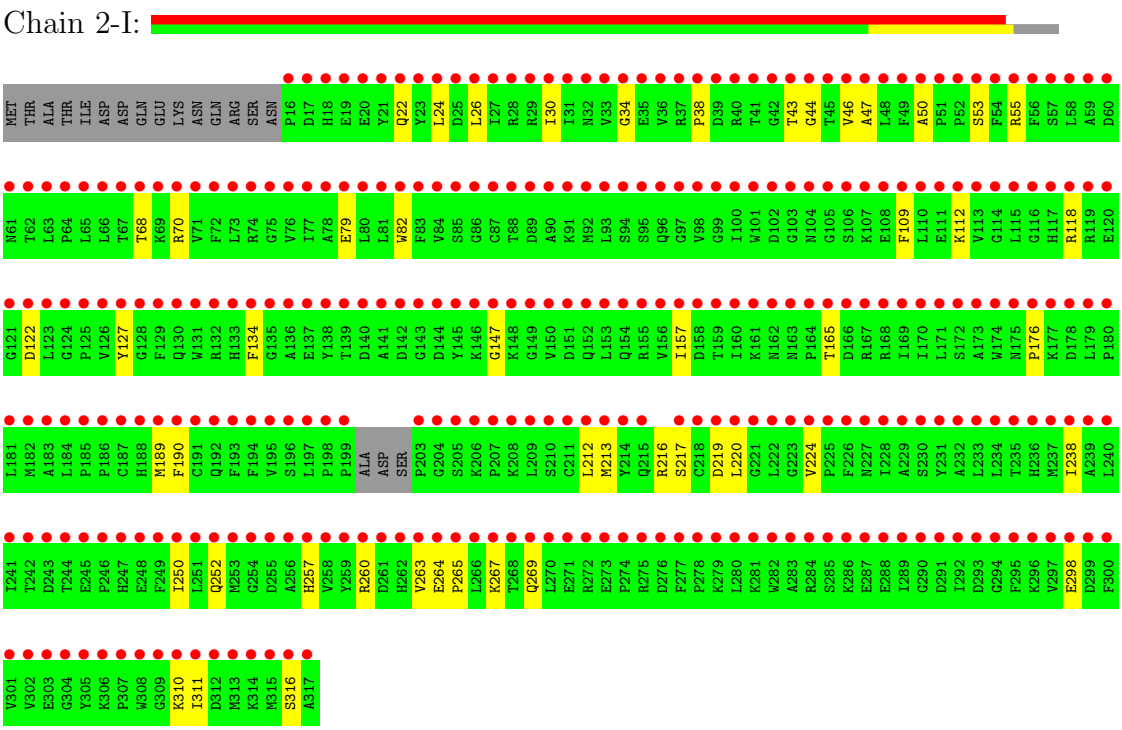
Chain 2-H:





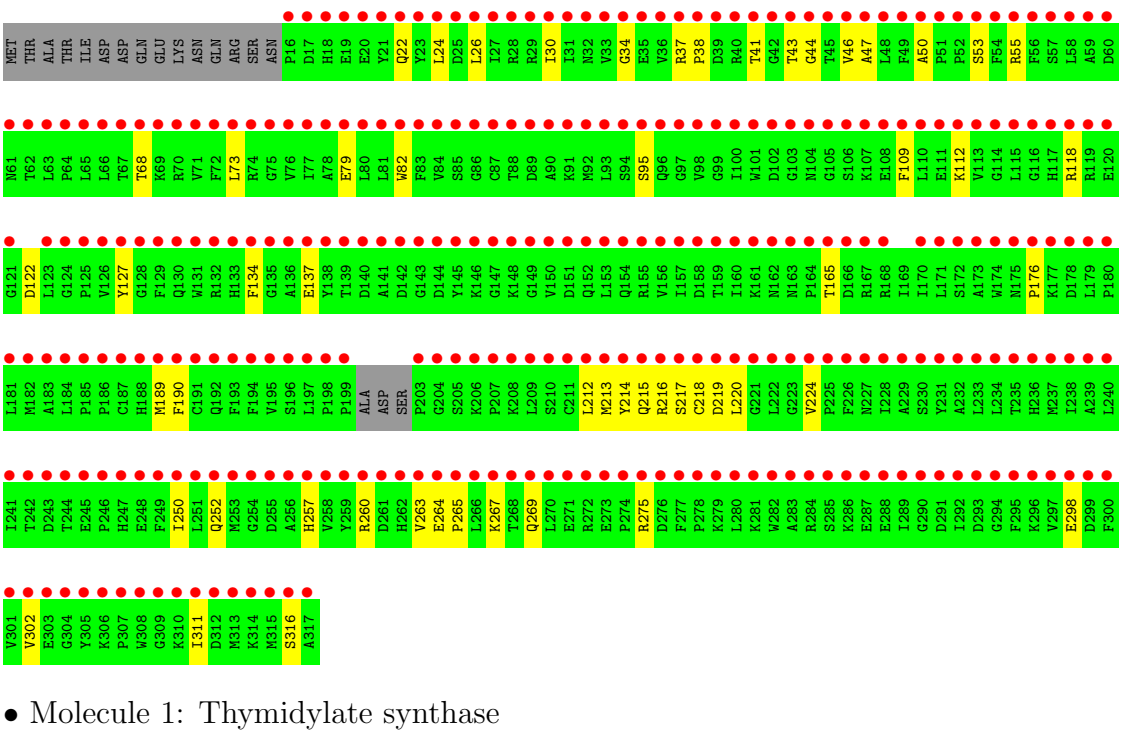
• Molecule 1: Thymidylate synthase

Chain 2-I:



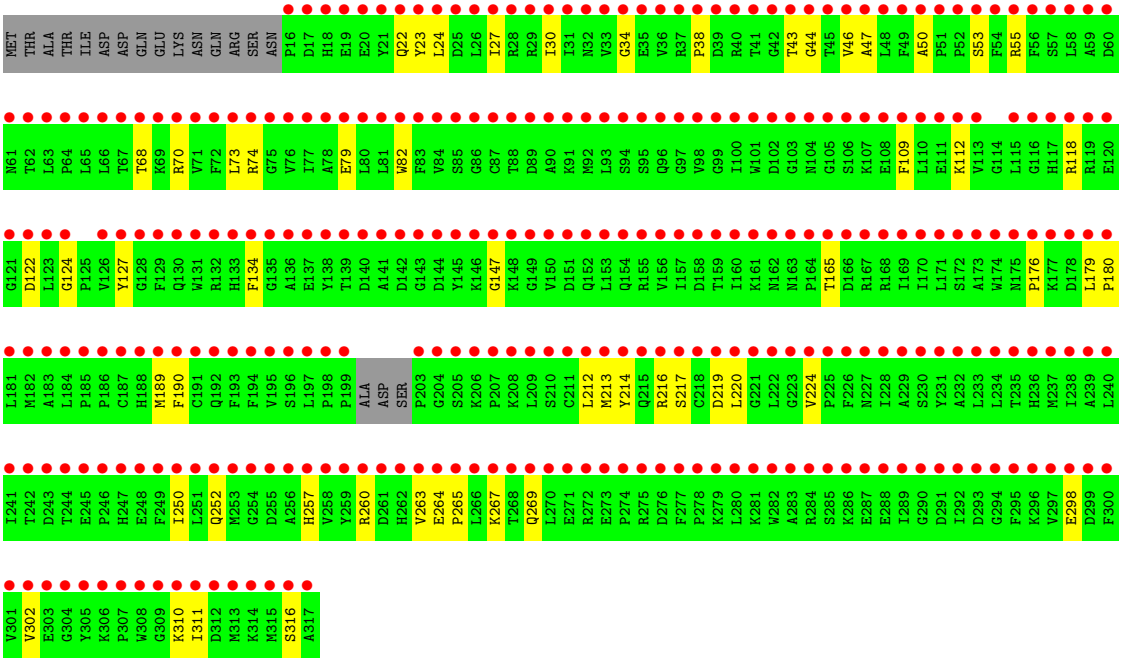
• Molecule 1: Thymidylate synthase

Chain 2-J:



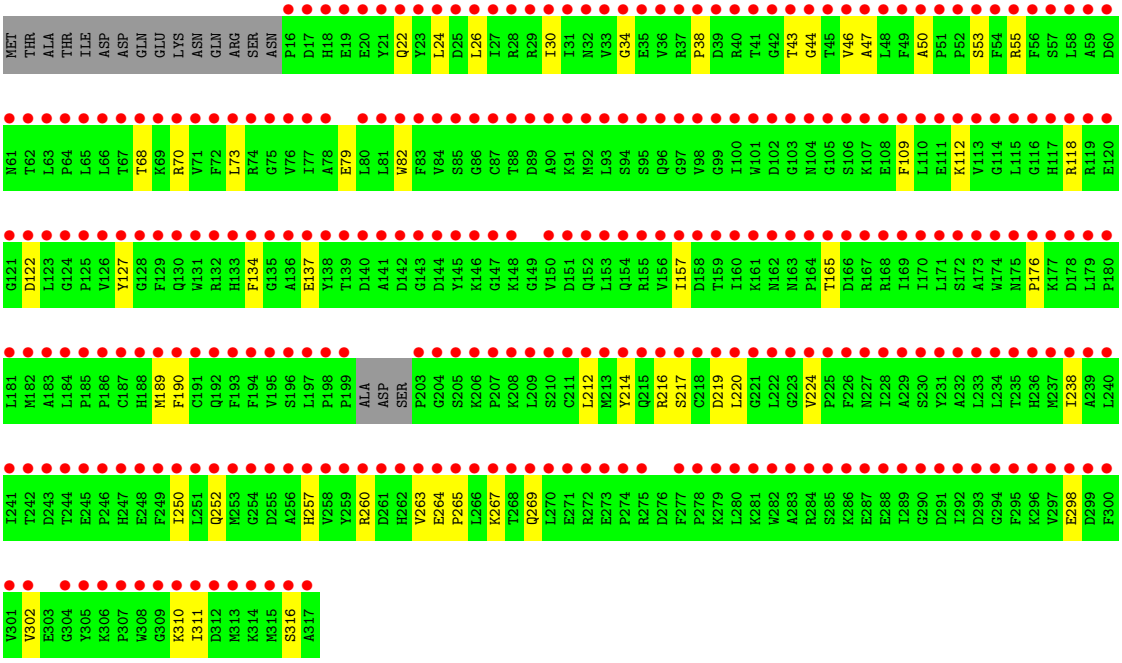
• Molecule 1: Thymidylate synthase

Chain 2-K:



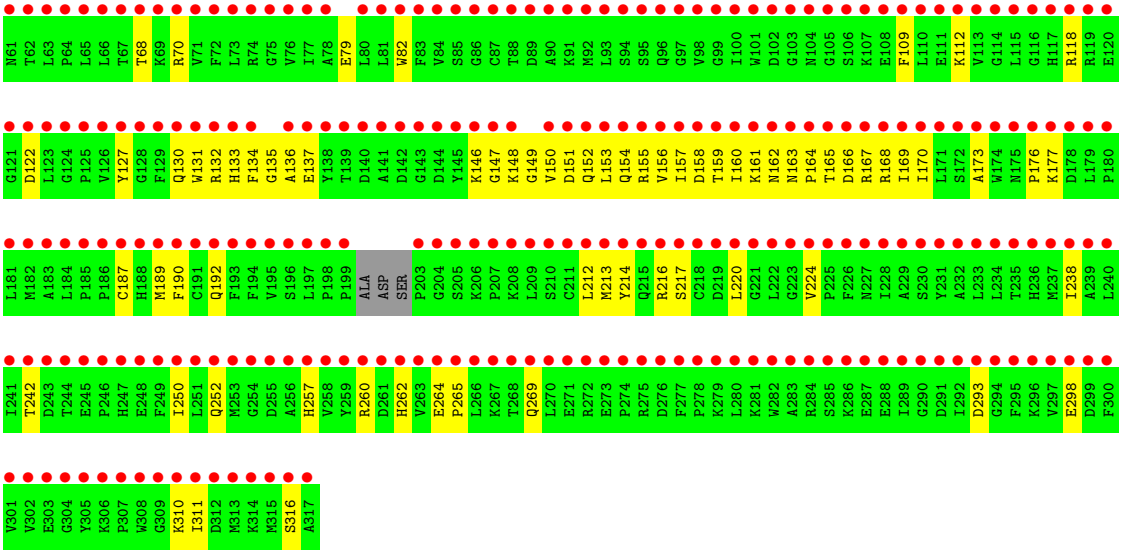
• Molecule 1: Thymidylate synthase

Chain 2-L:



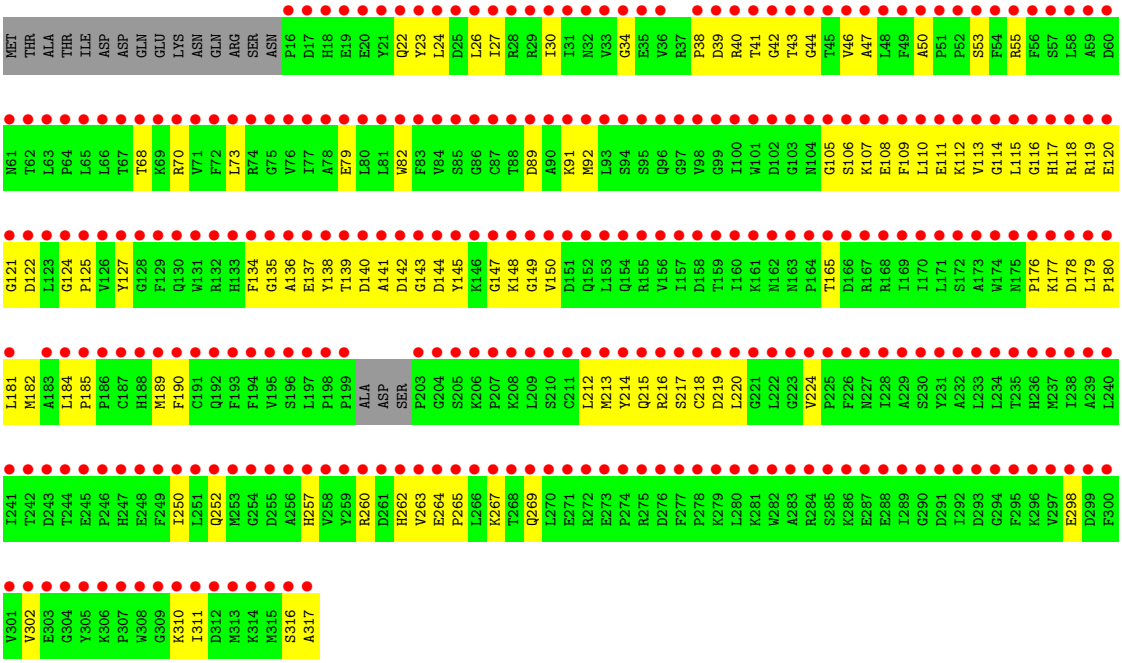
• Molecule 1: Thymidylate synthase

Chain 2-M:



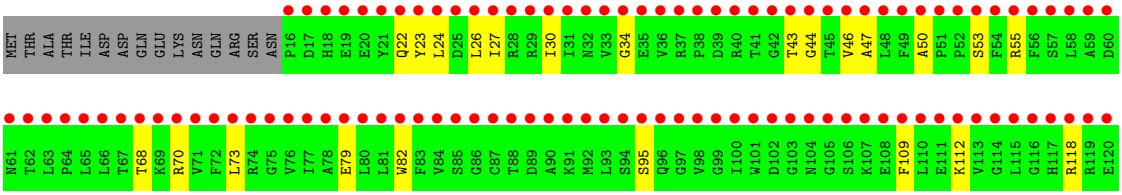
• Molecule 1: Thymidylate synthase

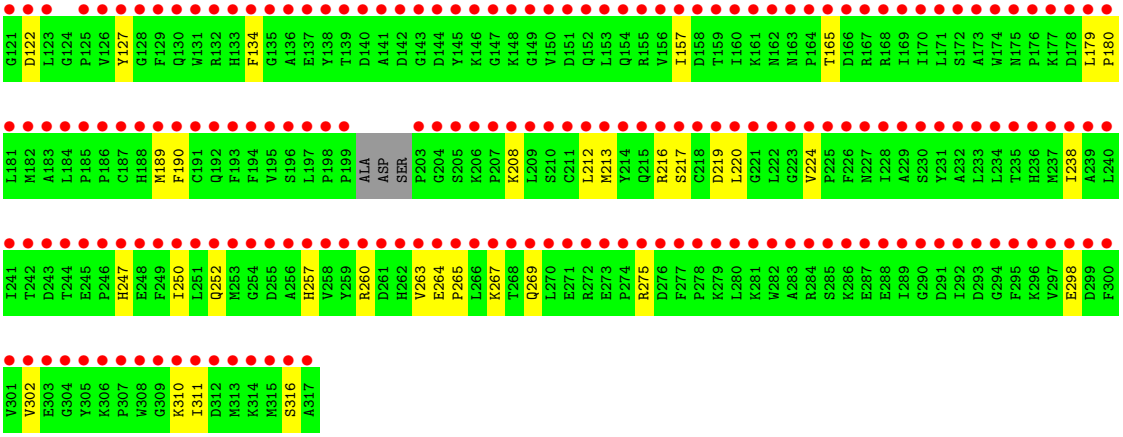
Chain 2-N:



• Molecule 1: Thymidylate synthase

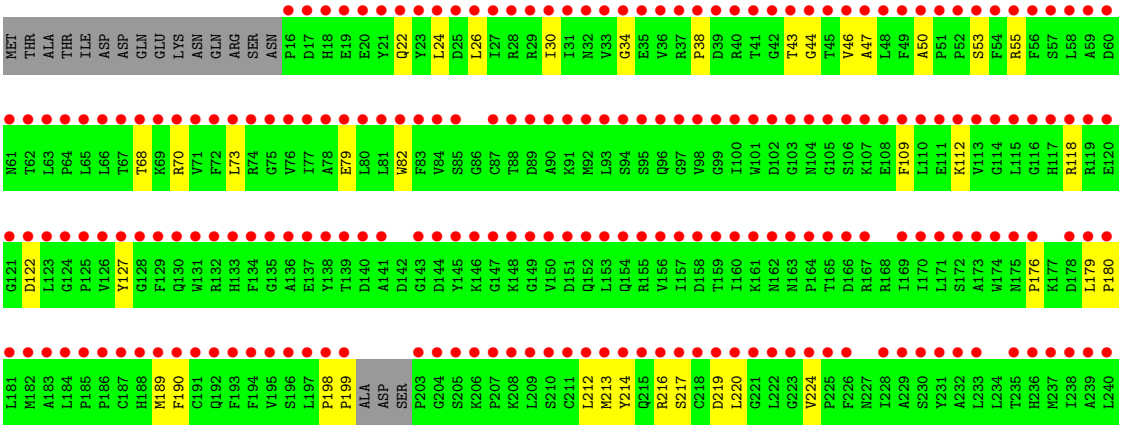
Chain 2-O:





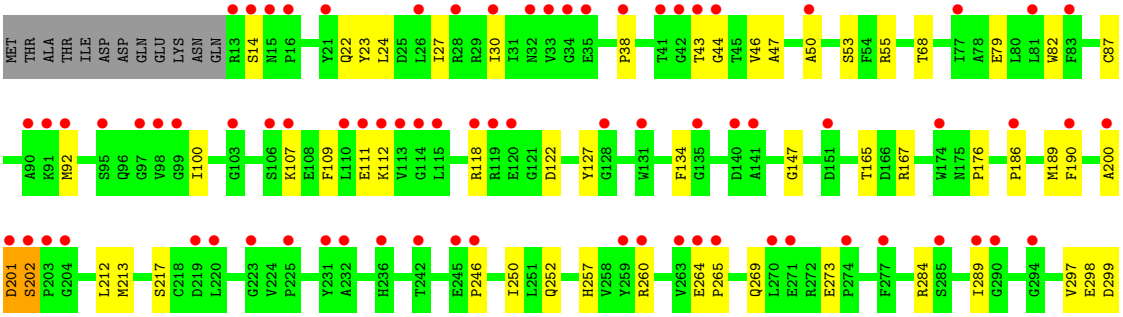
• Molecule 1: Thymidylate synthase

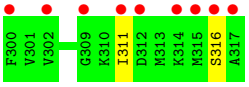
Chain 2-P:



• Molecule 1: Thymidylate synthase

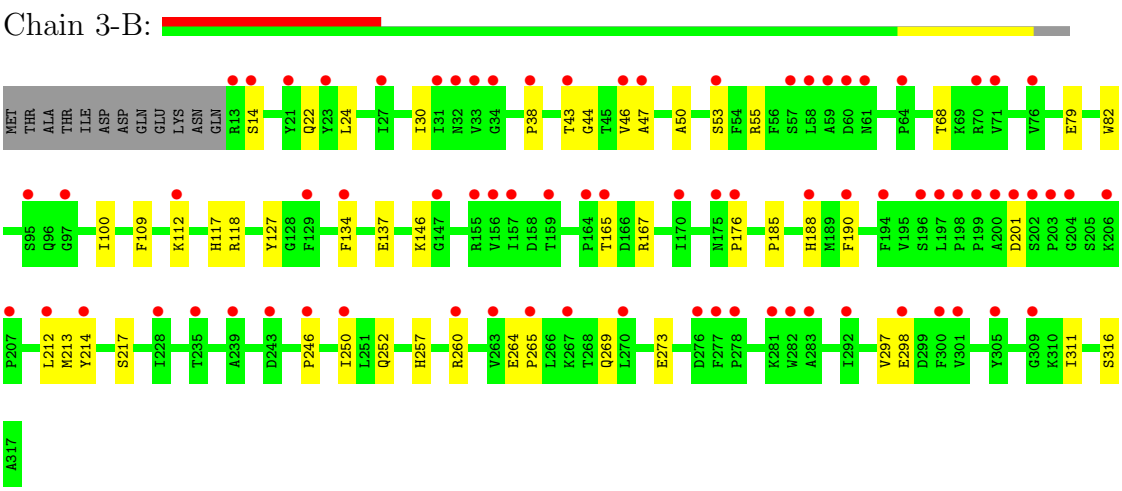
Chain 3-A:





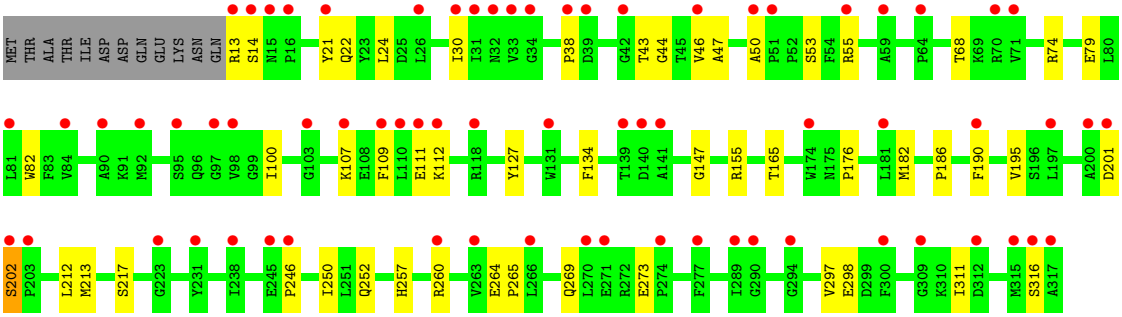
• Molecule 1: Thymidylate synthase

Chain 3-B:



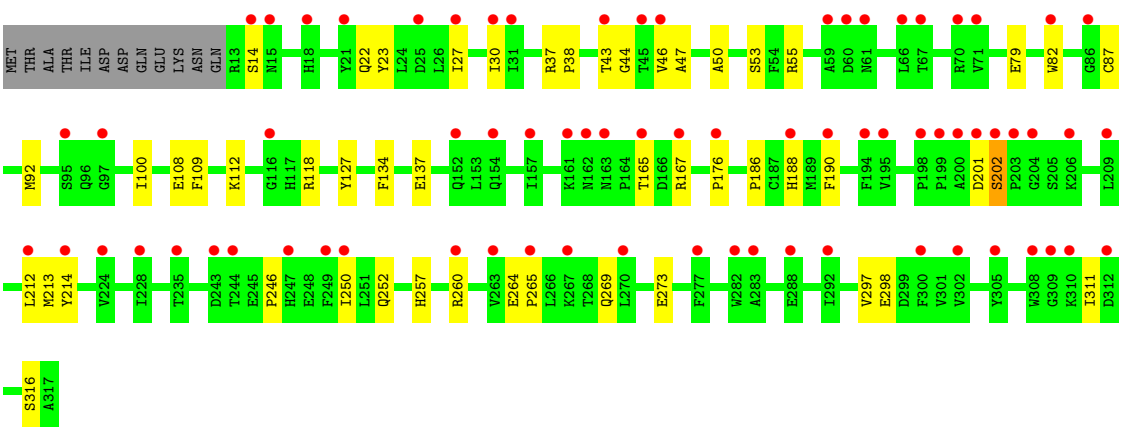
• Molecule 1: Thymidylate synthase

Chain 3-C:



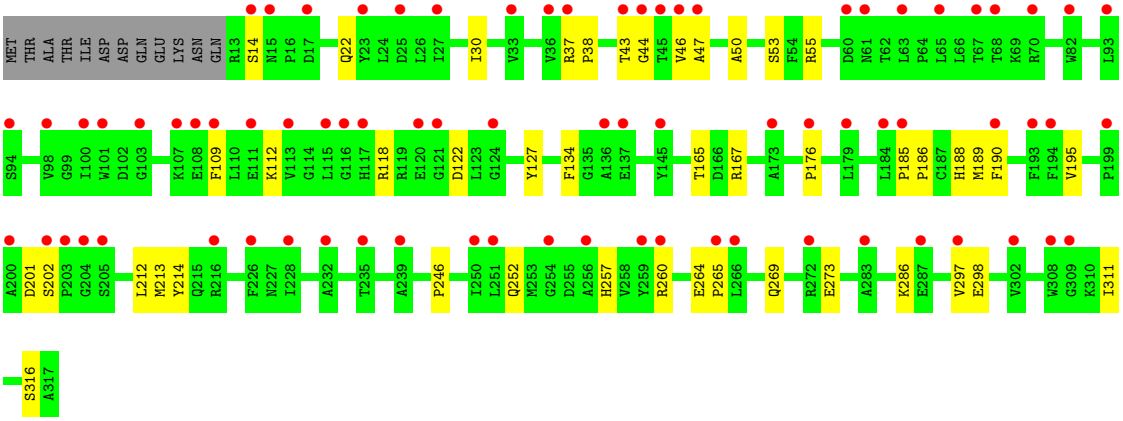
• Molecule 1: Thymidylate synthase

Chain 3-D:



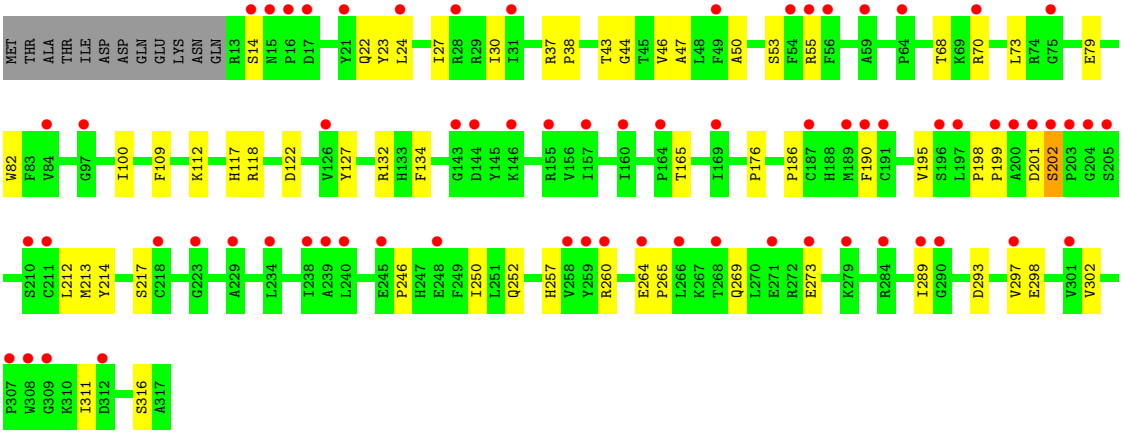
• Molecule 1: Thymidylate synthase

Chain 3-E:



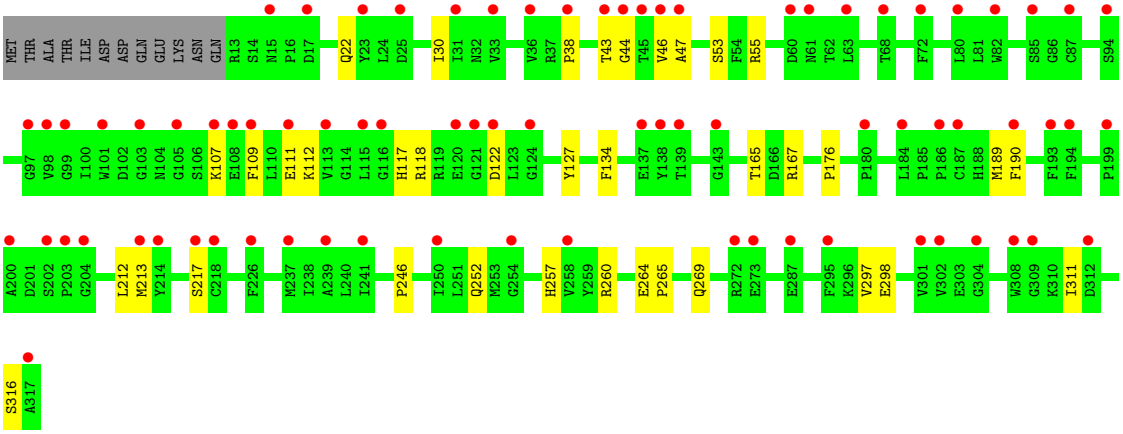
• Molecule 1: Thymidylate synthase

Chain 3-F:



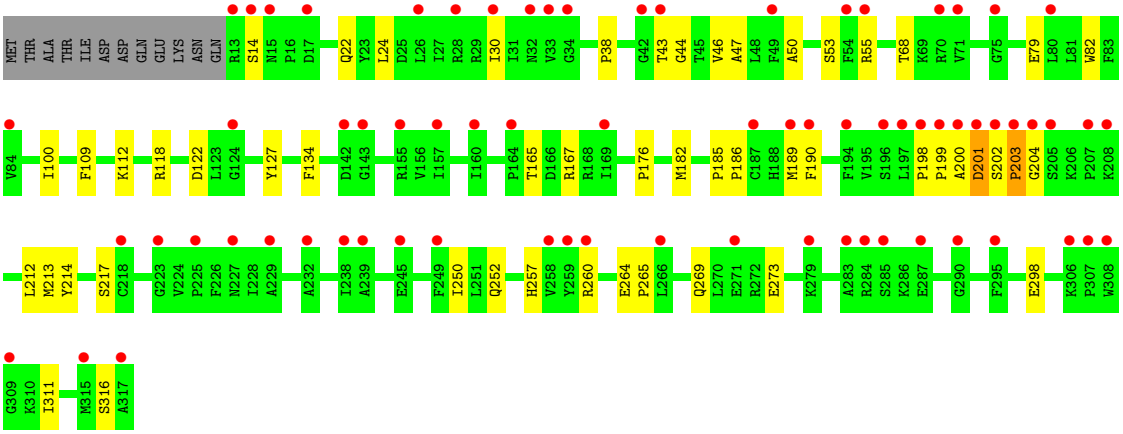
• Molecule 1: Thymidylate synthase

Chain 3-G:



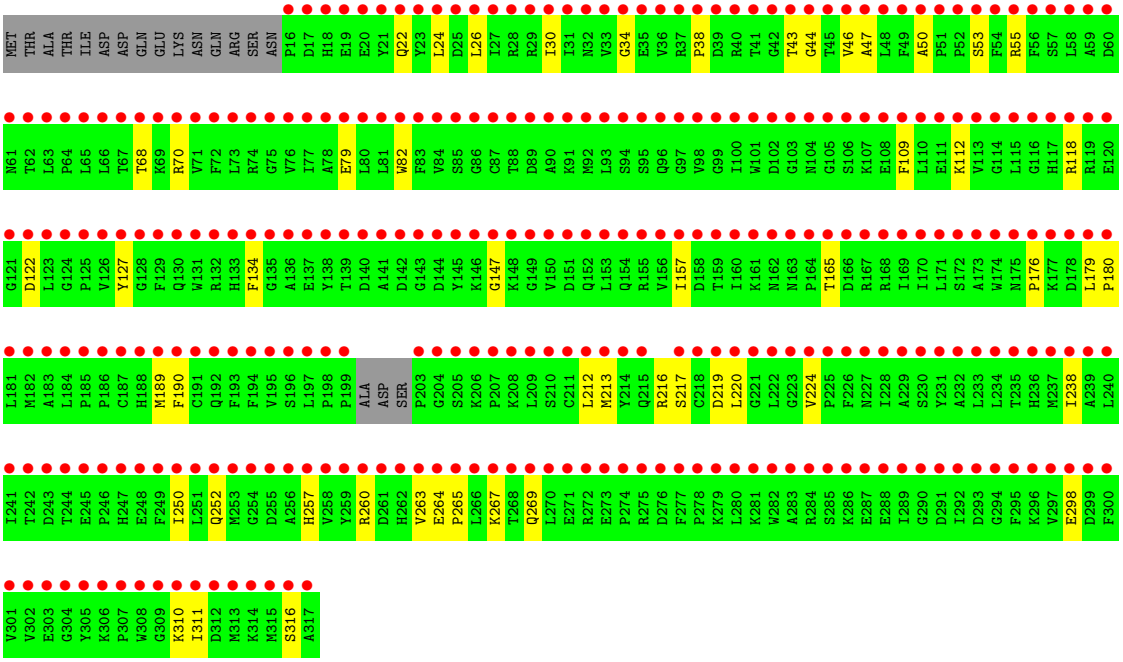
• Molecule 1: Thymidylate synthase

Chain 3-H:



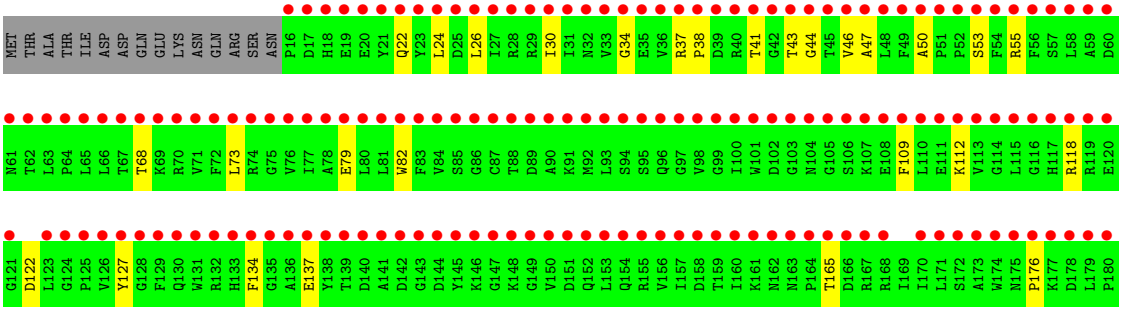
• Molecule 1: Thymidylate synthase

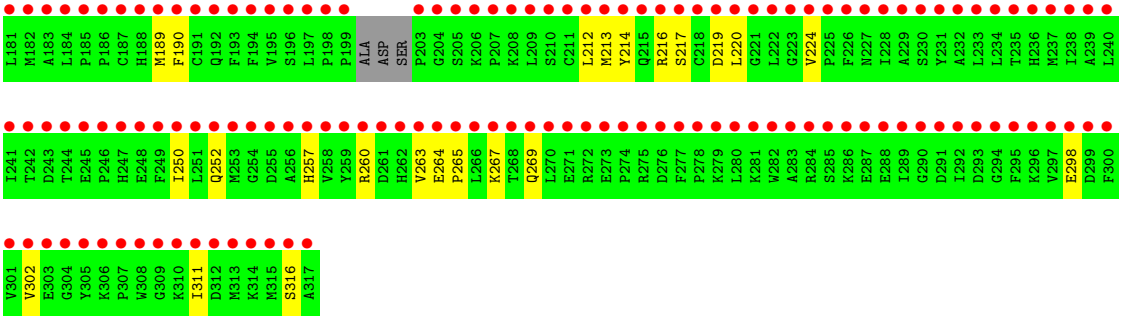
Chain 3-I:



• Molecule 1: Thymidylate synthase

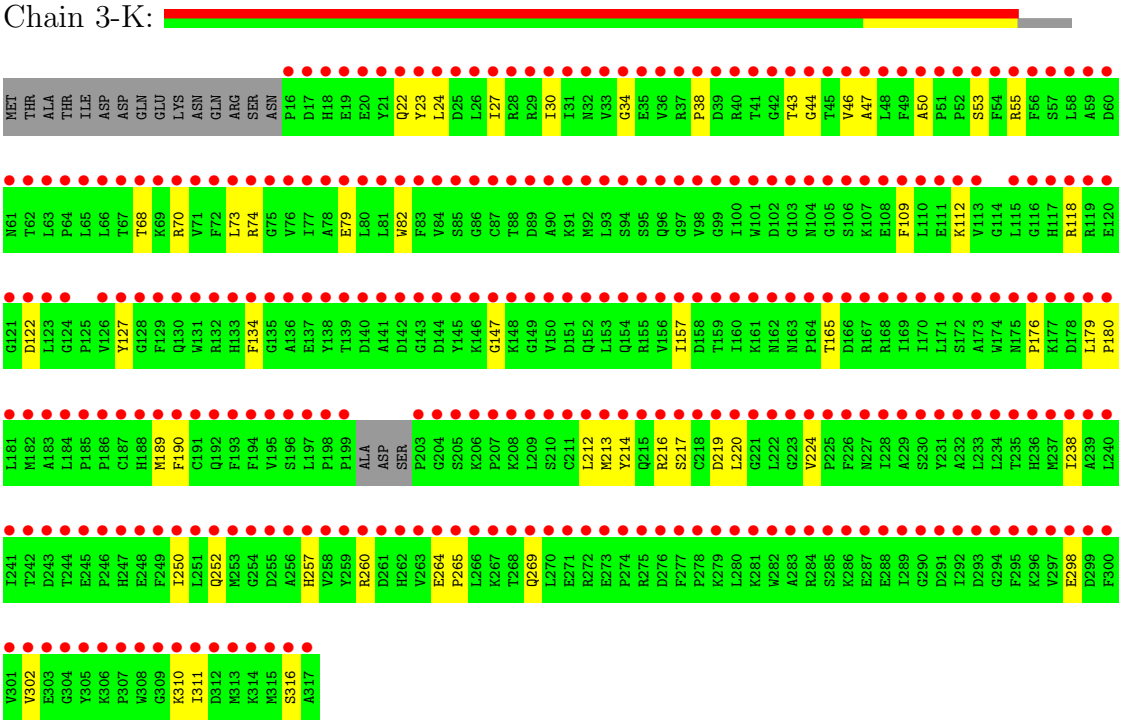
Chain 3-J:





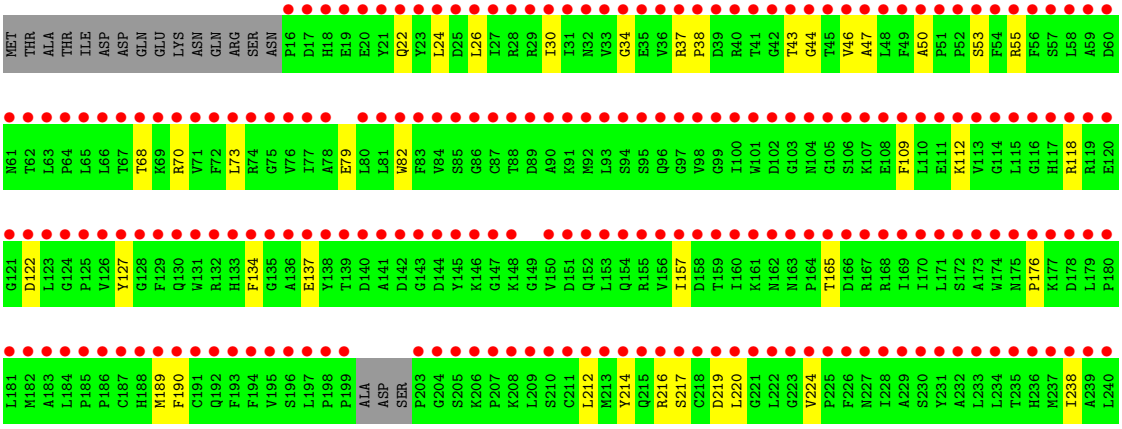
• Molecule 1: Thymidylate synthase

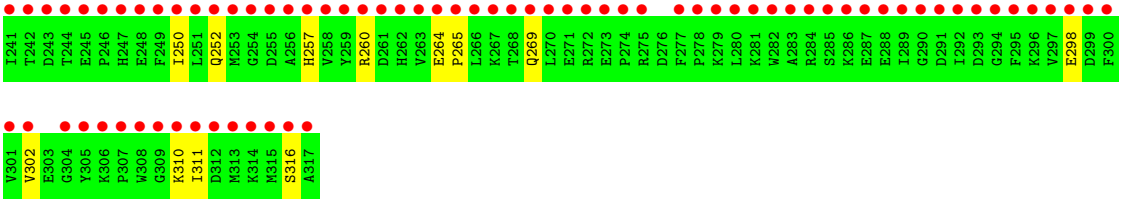
Chain 3-K:



• Molecule 1: Thymidylate synthase

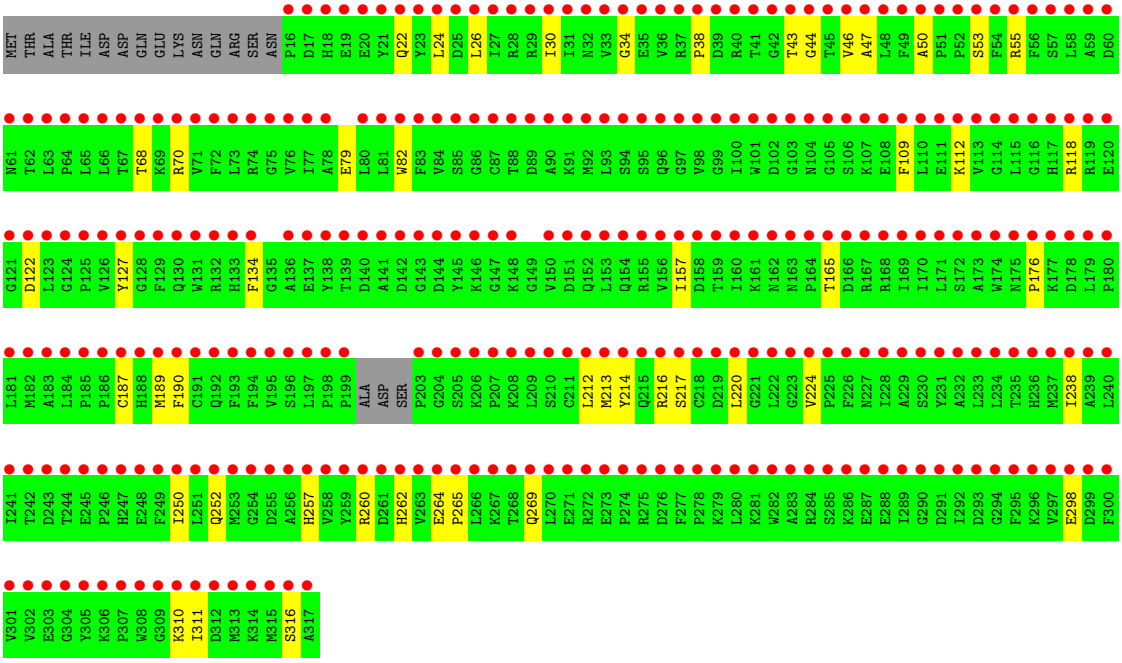
Chain 3-L:





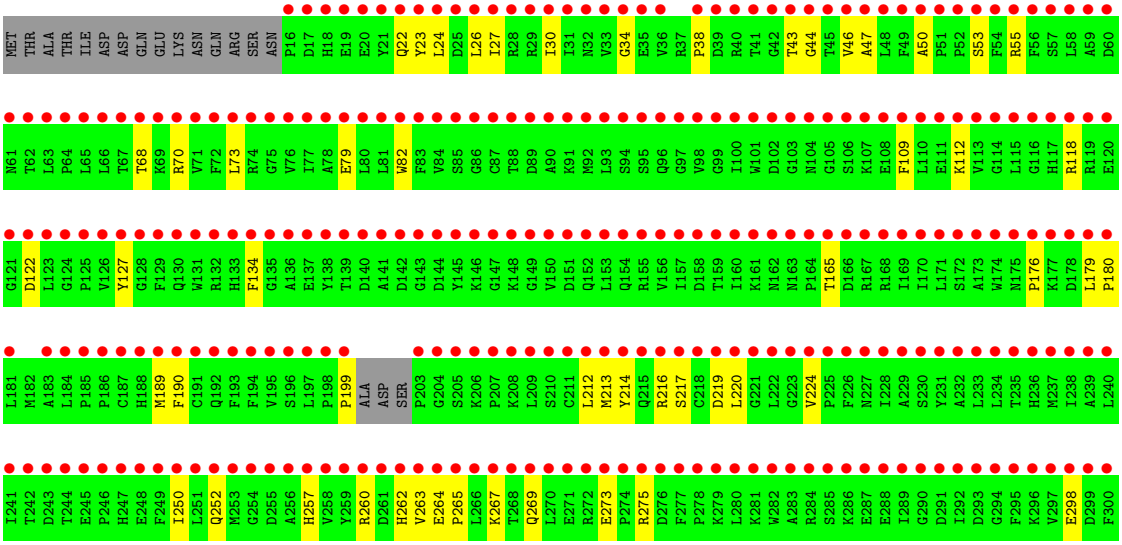
• Molecule 1: Thymidylate synthase

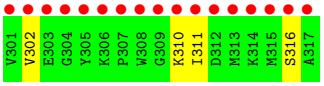
Chain 3-M:



• Molecule 1: Thymidylate synthase

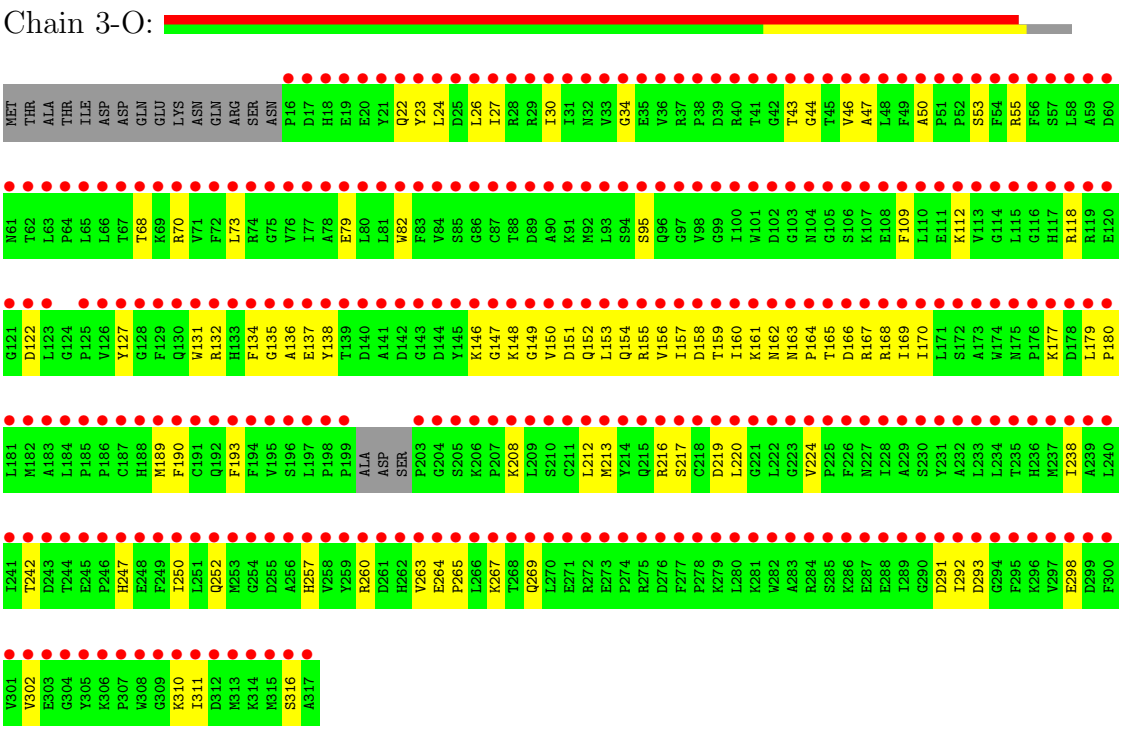
Chain 3-N:





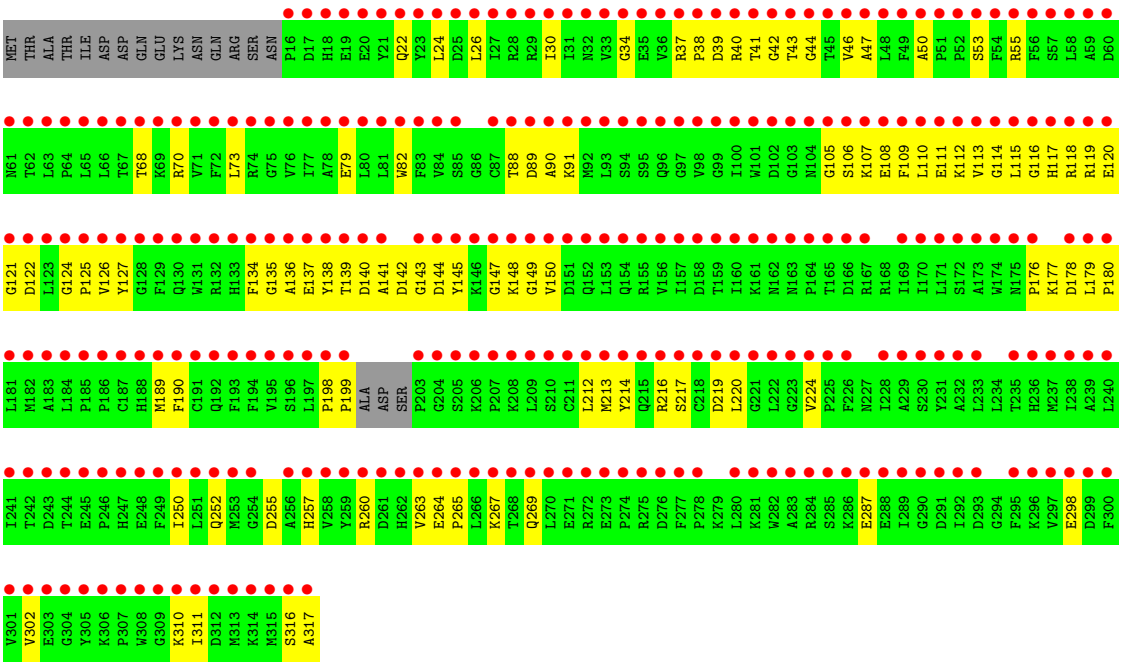
• Molecule 1: Thymidylate synthase

Chain 3-O:



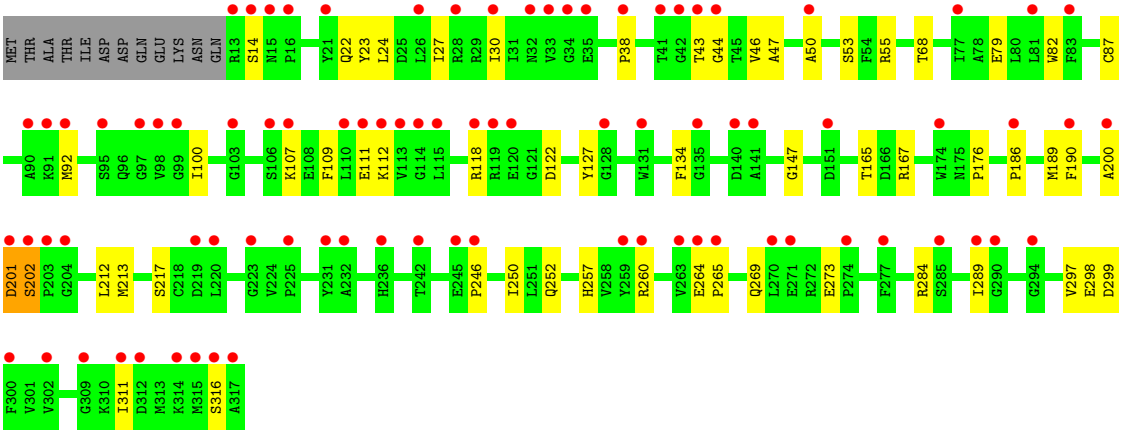
• Molecule 1: Thymidylate synthase

Chain 3-P:



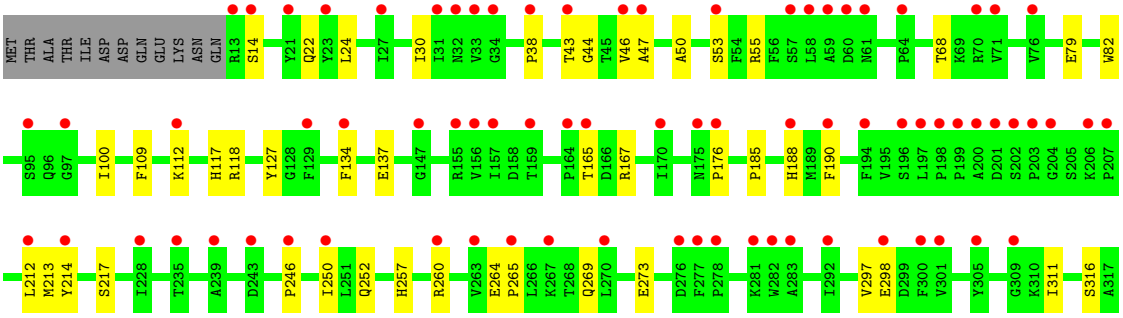
• Molecule 1: Thymidylate synthase

Chain 4-A:



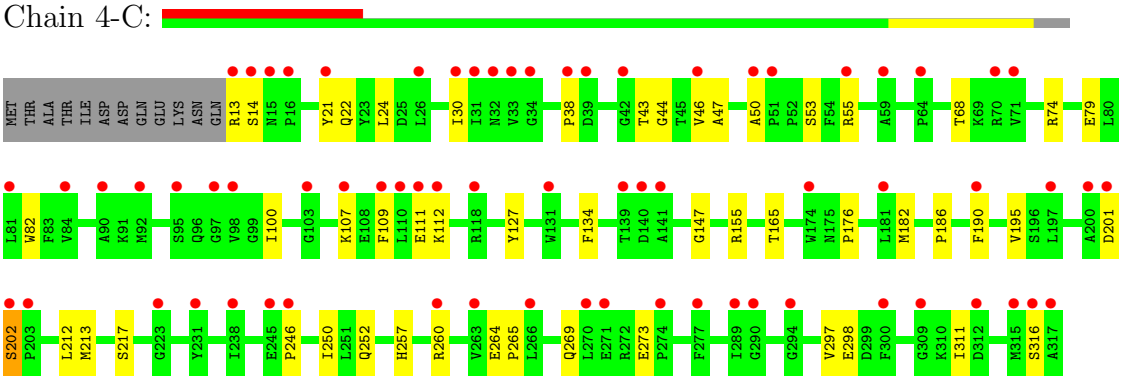
• Molecule 1: Thymidylate synthase

Chain 4-B:



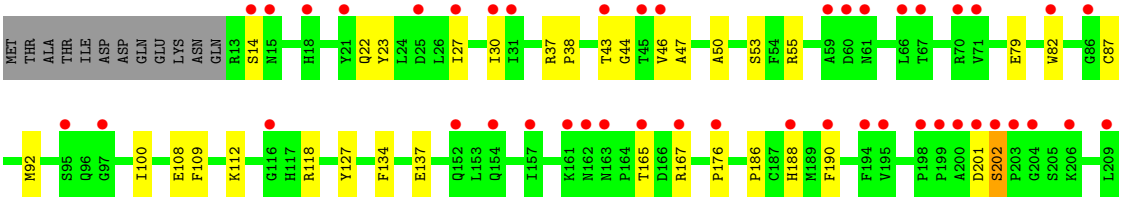
• Molecule 1: Thymidylate synthase

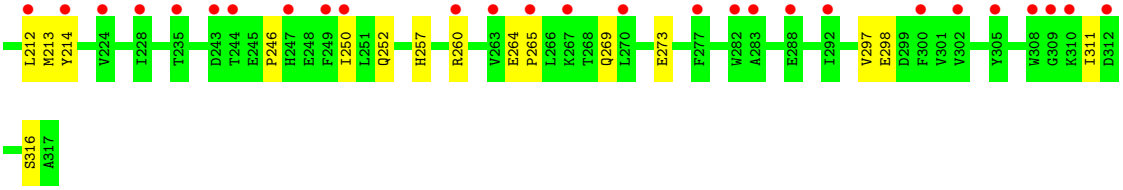
Chain 4-C:



• Molecule 1: Thymidylate synthase

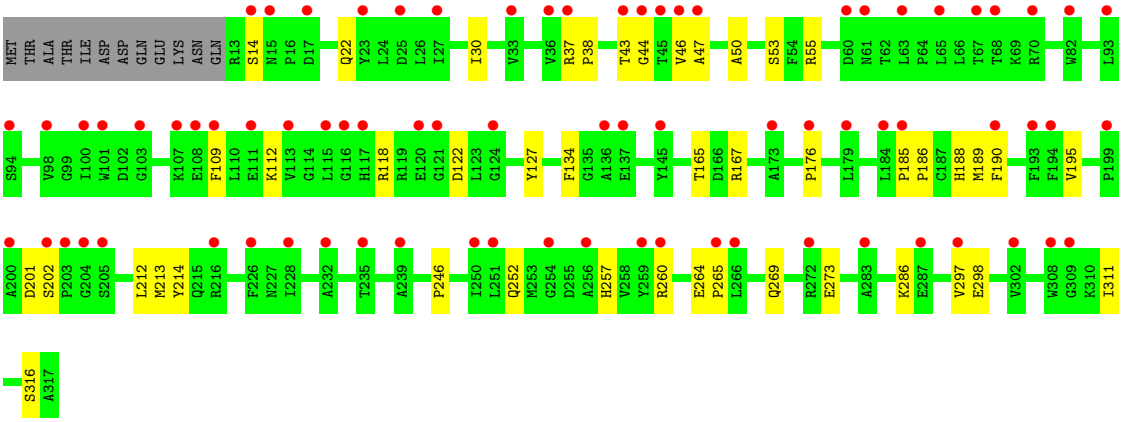
Chain 4-D:





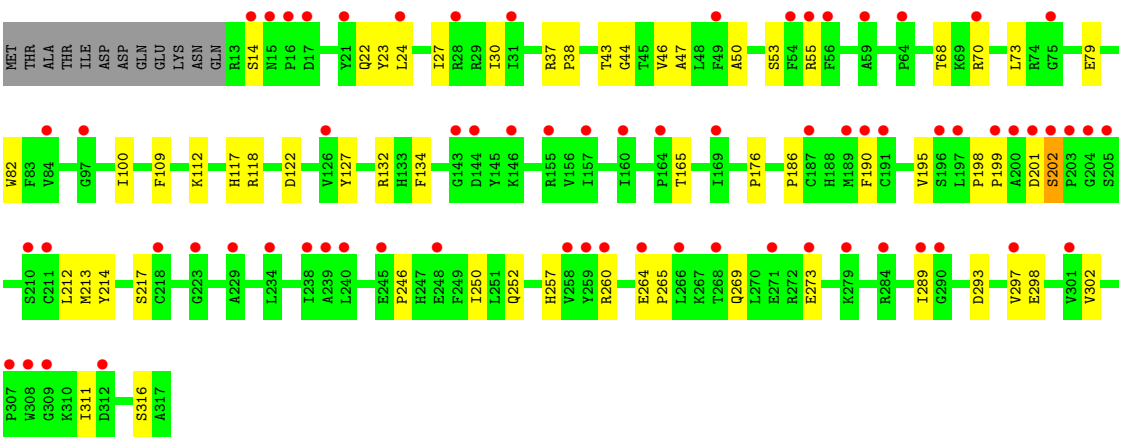
• Molecule 1: Thymidylate synthase

Chain 4-E:



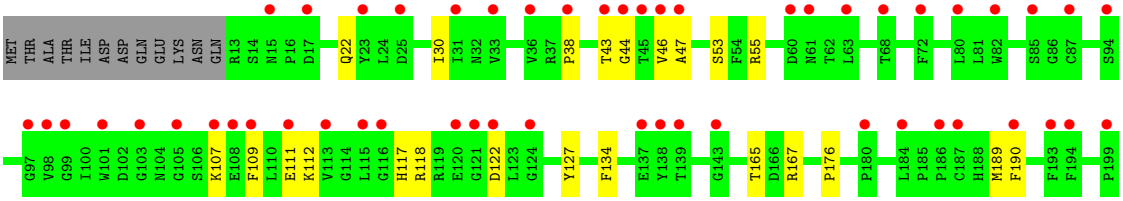
• Molecule 1: Thymidylate synthase

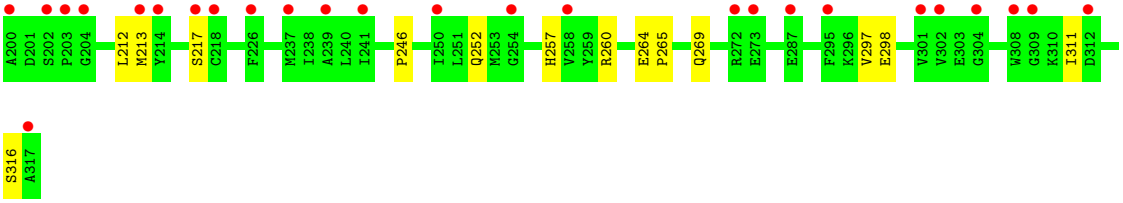
Chain 4-F:



• Molecule 1: Thymidylate synthase

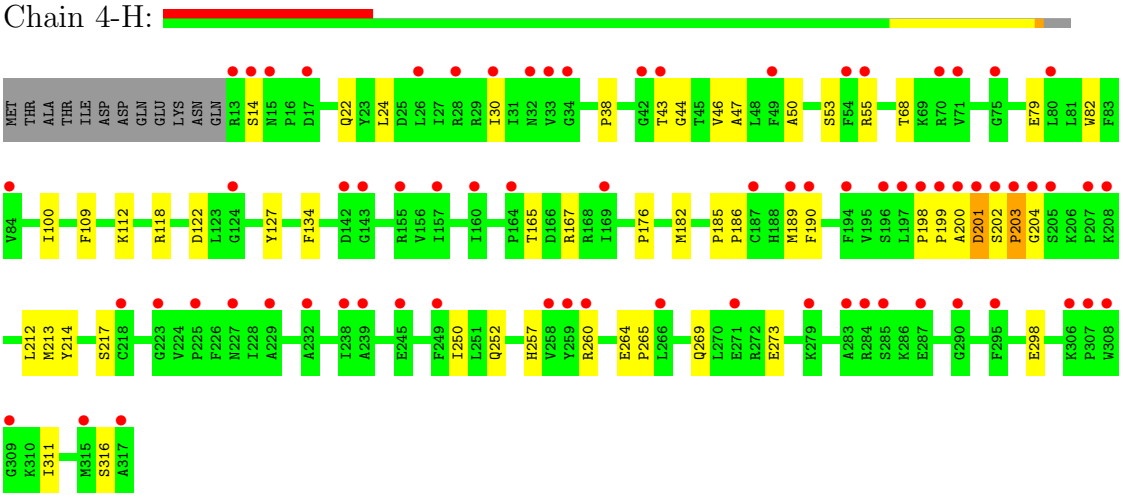
Chain 4-G:





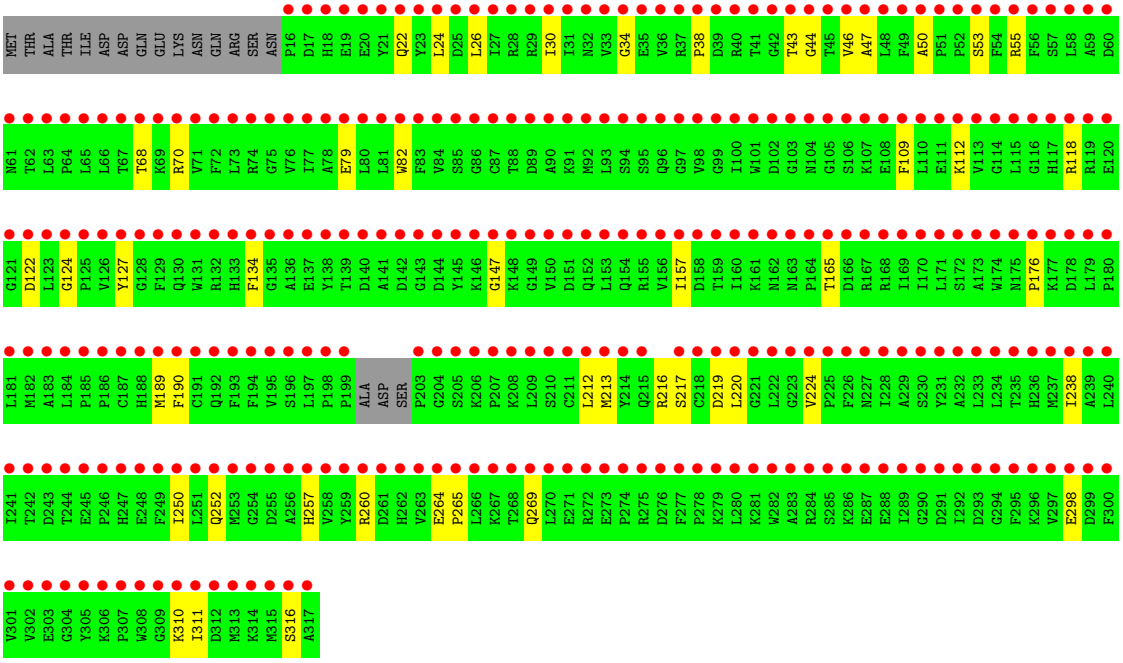
• Molecule 1: Thymidylate synthase

Chain 4-H:



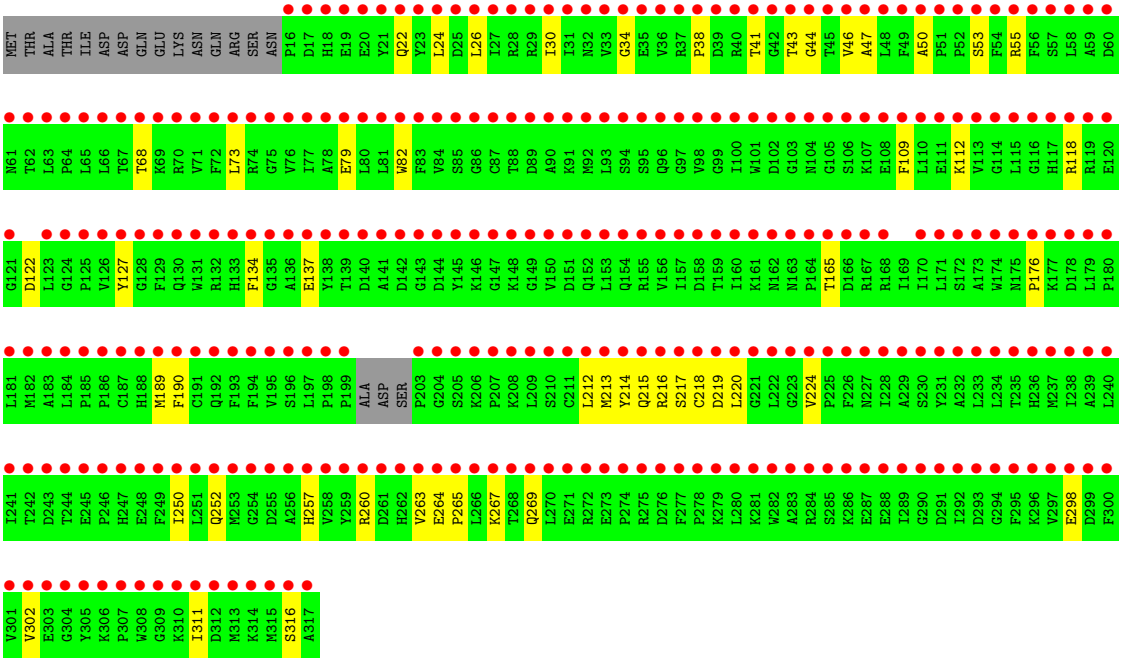
• Molecule 1: Thymidylate synthase

Chain 4-I:



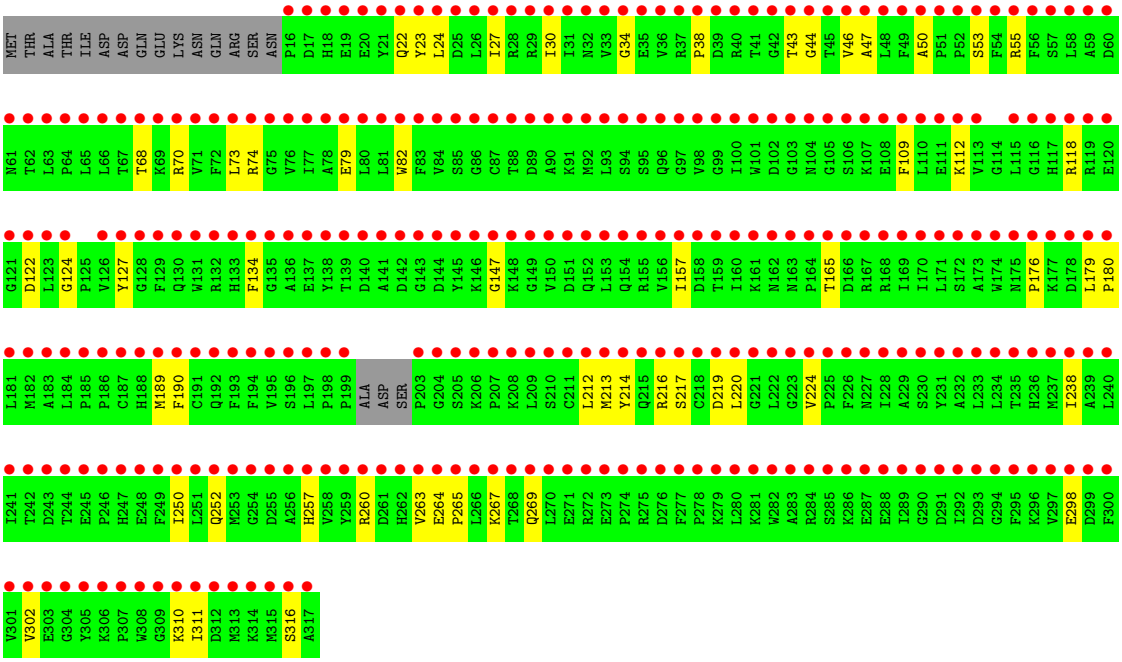
• Molecule 1: Thymidylate synthase

Chain 4-J:



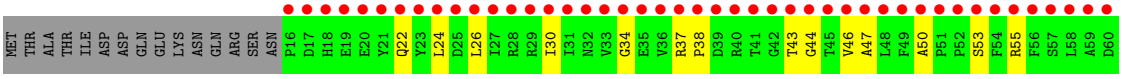
• Molecule 1: Thymidylate synthase

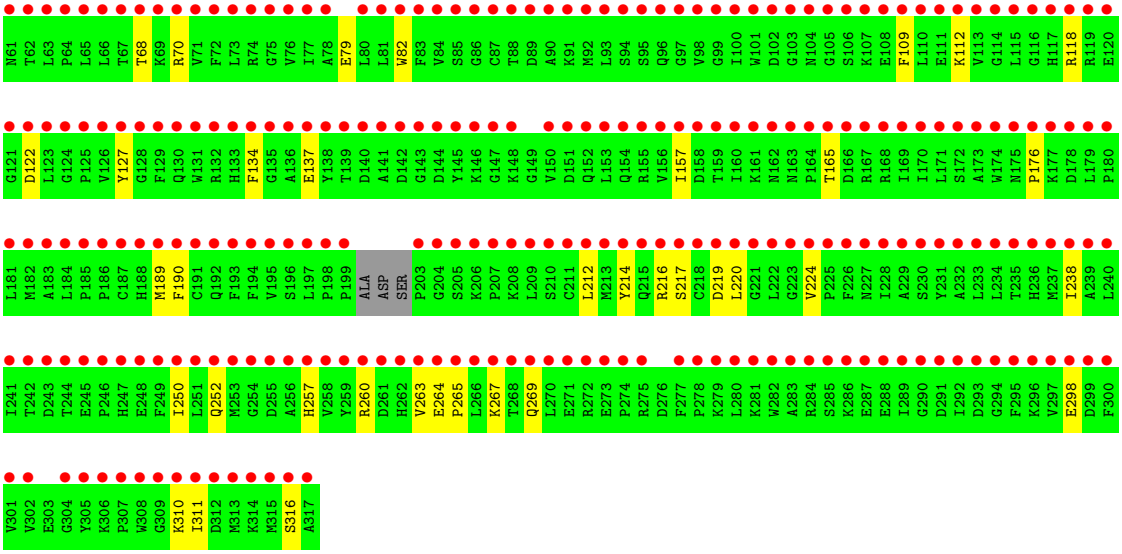
Chain 4-K:



• Molecule 1: Thymidylate synthase

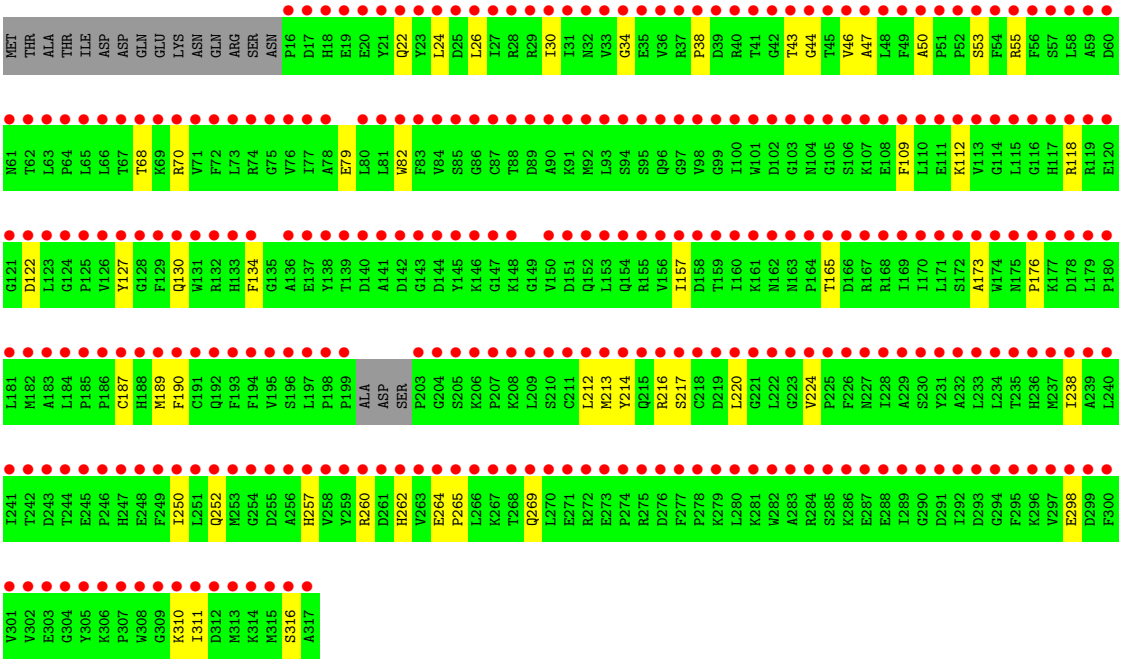
Chain 4-L:





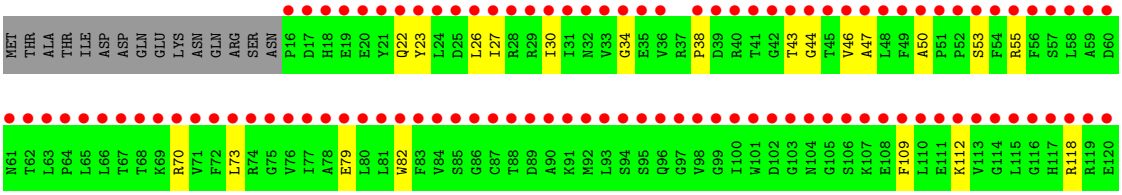
• Molecule 1: Thymidylate synthase

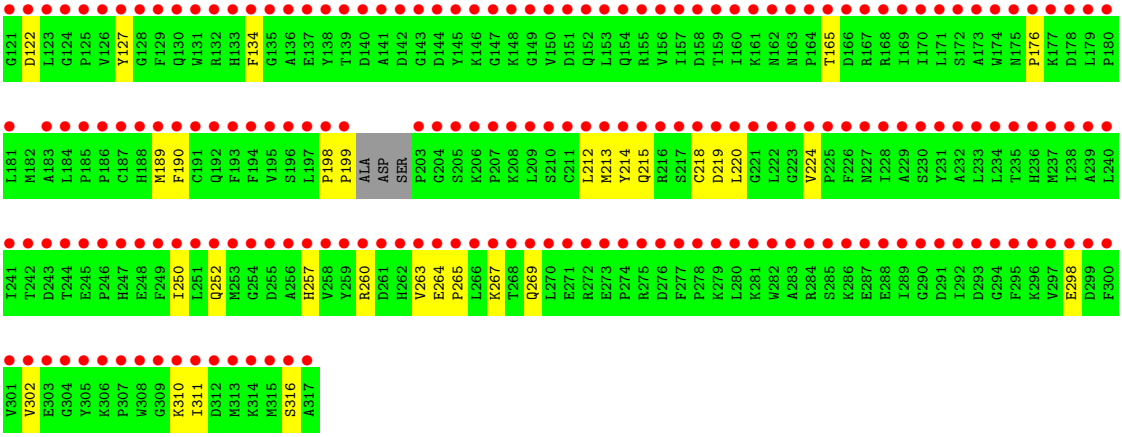
Chain 4-M:



• Molecule 1: Thymidylate synthase

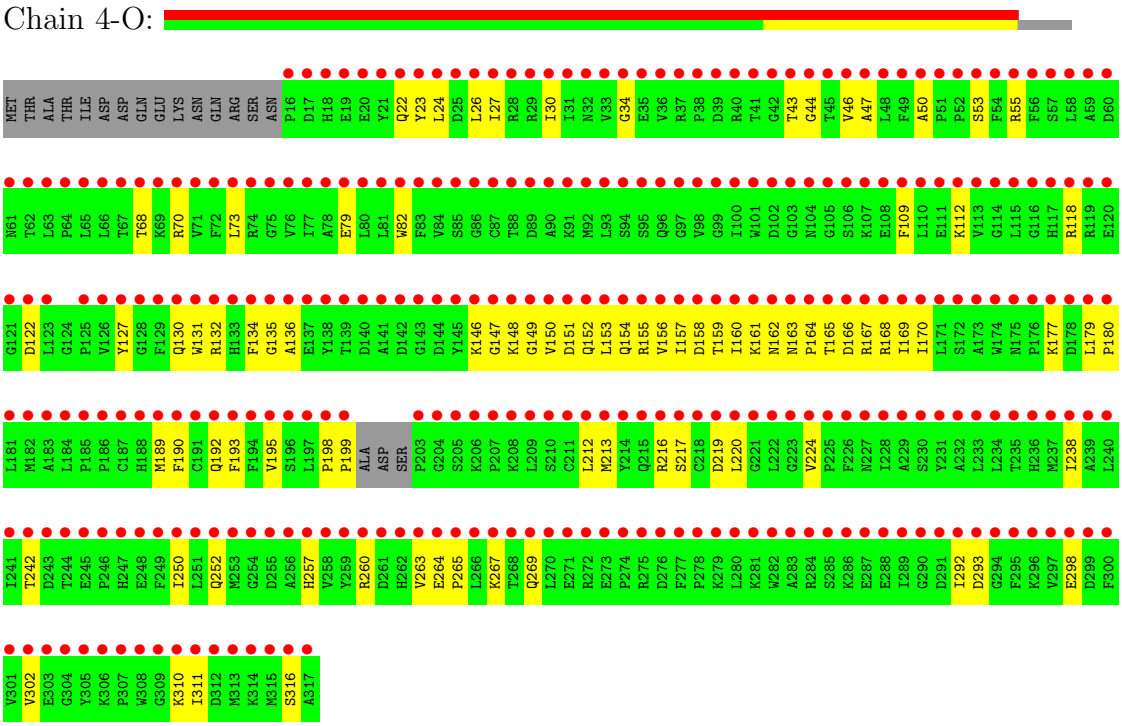
Chain 4-N:





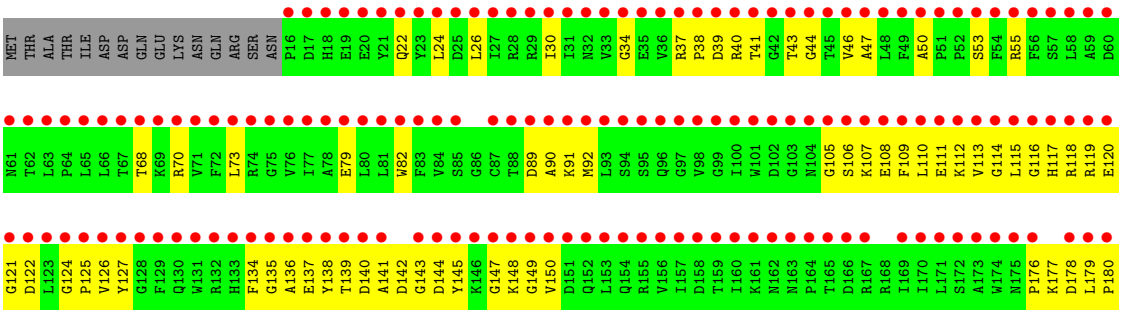
• Molecule 1: Thymidylate synthase

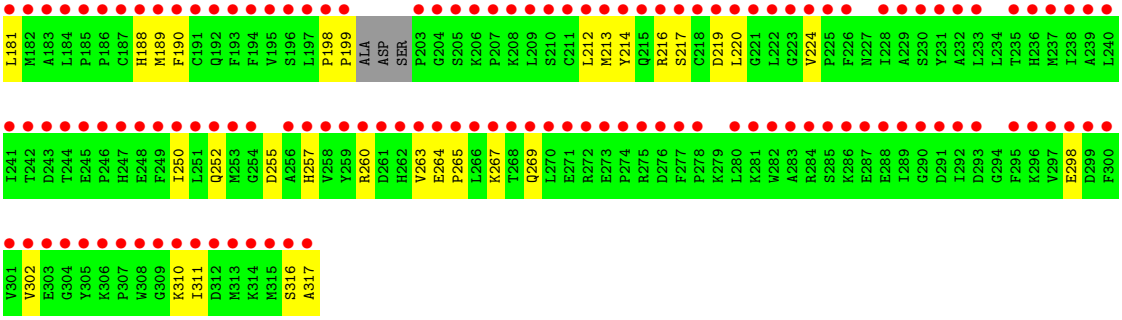
Chain 4-O:



• Molecule 1: Thymidylate synthase

Chain 4-P:




L181 M182 A183 L184 P185 P186 C187 H188 M189 F190 C191 Q192 F193 F194 V195 S196 L197 P198 P199 ALA ASP SER P203 G204 S205 K206 P207 K208 L209 S210 C211 L212 M213 Y214 Q215 R216 S217 C218 D219 L220 G221 L222 G223 V224 P225 F226 N227 I228 A229 S230 Y231 A232 L233 L234 T235 H236 M237 I238 A239 L240
I241 T242 D243 T244 E245 P246 H247 E248 F249 I250 L251 Q252 M253 G254 D255 A256 H257 V258 Y259 R260 D261 H262 V263 E264 P265 L266 K267 T268 Q269 L270 E271 R272 E273 P274 R275 D276 F277 P278 K279 L280 K281 W282 A283 R284 S285 K286 E287 E288 I289 G290 D291 I292 D293 G294 F295 K296 V297 E298 D299 F300
V301 V302 E303 G304 Y305 K306 P307 W308 G309 K310 I311 D312 M313 K314 M315 S316 A317

4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α, β, γ	179.40Å 179.50Å 209.10Å 90.00° 89.80° 90.00°	Depositor
Resolution (Å)	49.91 – 2.08 89.75 – 2.07	Depositor EDS
% Data completeness (in resolution range)	88.1 (49.91-2.08) 87.3 (89.75-2.07)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.39 (at 2.07Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.290 , 0.305 0.277 , 0.279	Depositor DCC
R_{free} test set	35354 reflections (11.11%)	DCC
Wilson B-factor (Å^2)	24.4	Xtriage
Anisotropy	0.470	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.25 , 37.4	EDS
Estimated twinning fraction	0.206 for k,h,-l 0.198 for -k,-h,-l 0.349 for -h,-k,l	Xtriage
L-test for twinning	$< \|L\| > = 0.49$, $< L^2 > = 0.33$	Xtriage
Outliers	0 of 371476 reflections	Xtriage
F_o,F_c correlation	0.87	EDS
Total number of atoms	161392	wwPDB-VP
Average B, all atoms (Å^2)	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 15.29% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CB3, UMP

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	1-A	0.50	0/2492	1.21	11/3375 (0.3%)
1	1-B	0.47	0/2496	0.71	4/3380 (0.1%)
1	1-C	0.48	0/2492	1.03	8/3375 (0.2%)
1	1-D	0.51	0/2496	1.39	13/3380 (0.4%)
1	1-E	0.49	0/2496	1.01	8/3380 (0.2%)
1	1-F	0.50	1/2496 (0.0%)	1.28	12/3380 (0.4%)
1	1-G	0.49	0/2496	0.86	8/3380 (0.2%)
1	1-H	0.49	0/2496	0.85	7/3380 (0.2%)
1	1-I	0.28	0/2451	0.59	2/3316 (0.1%)
1	1-J	0.28	0/2451	0.59	3/3316 (0.1%)
1	1-K	0.28	0/2451	0.59	3/3316 (0.1%)
1	1-L	0.28	0/2451	0.59	2/3316 (0.1%)
1	1-M	0.28	0/2451	0.59	2/3316 (0.1%)
1	1-N	0.28	0/2451	0.59	2/3316 (0.1%)
1	1-O	0.28	0/2451	0.59	2/3316 (0.1%)
1	1-P	0.28	0/2451	0.59	3/3316 (0.1%)
All	All	0.40	1/39568 (0.0%)	0.86	90/53558 (0.2%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1-F	132[A]	ARG	CD-NE	-5.44	1.37	1.46

All (90) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1-D	37[A]	ARG	NE-CZ-NH1	-31.12	104.74	120.30
1	1-F	132[A]	ARG	NE-CZ-NH1	-30.91	104.84	120.30
1	1-F	132[A]	ARG	NE-CZ-NH2	30.10	135.35	120.30
1	1-E	37[A]	ARG	NE-CZ-NH1	-29.08	105.76	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1-F	37[A]	ARG	NE-CZ-NH1	-28.95	105.82	120.30
1	1-D	28[A]	ARG	NE-CZ-NH1	-28.34	106.13	120.30
1	1-D	37[A]	ARG	NE-CZ-NH2	27.90	134.25	120.30
1	1-E	37[A]	ARG	NE-CZ-NH2	26.39	133.50	120.30
1	1-F	37[A]	ARG	NE-CZ-NH2	25.99	133.29	120.30
1	1-D	28[A]	ARG	NE-CZ-NH2	25.82	133.21	120.30
1	1-D	70[A]	ARG	NE-CZ-NH2	-24.85	107.87	120.30
1	1-A	284[A]	ARG	NE-CZ-NH2	-24.67	107.97	120.30
1	1-A	284[A]	ARG	NE-CZ-NH1	24.53	132.57	120.30
1	1-A	70[A]	ARG	NE-CZ-NH2	-24.42	108.09	120.30
1	1-C	70[A]	ARG	NE-CZ-NH2	-23.57	108.52	120.30
1	1-A	118[A]	ARG	NE-CZ-NH2	-23.39	108.61	120.30
1	1-G	118[A]	ARG	NE-CZ-NH2	-22.73	108.93	120.30
1	1-C	118[A]	ARG	NE-CZ-NH2	-22.58	109.01	120.30
1	1-D	70[A]	ARG	NE-CZ-NH1	22.51	131.55	120.30
1	1-H	118[A]	ARG	NE-CZ-NH2	-22.04	109.28	120.30
1	1-A	70[A]	ARG	NE-CZ-NH1	21.89	131.25	120.30
1	1-C	70[A]	ARG	NE-CZ-NH1	21.63	131.12	120.30
1	1-C	118[A]	ARG	NE-CZ-NH1	19.52	130.06	120.30
1	1-G	118[A]	ARG	NE-CZ-NH1	19.23	129.92	120.30
1	1-A	118[A]	ARG	NE-CZ-NH1	19.04	129.82	120.30
1	1-H	118[A]	ARG	NE-CZ-NH1	18.39	129.50	120.30
1	1-F	132[A]	ARG	CD-NE-CZ	15.17	144.84	123.60
1	1-D	37[A]	ARG	CD-NE-CZ	14.76	144.27	123.60
1	1-F	37[A]	ARG	CD-NE-CZ	13.96	143.15	123.60
1	1-E	37[A]	ARG	CD-NE-CZ	13.95	143.13	123.60
1	1-D	28[A]	ARG	CD-NE-CZ	13.21	142.09	123.60
1	1-F	118[A]	ARG	NE-CZ-NH1	-11.03	114.78	120.30
1	1-A	70[A]	ARG	CD-NE-CZ	11.01	139.01	123.60
1	1-C	70[A]	ARG	CD-NE-CZ	10.98	138.97	123.60
1	1-B	118[A]	ARG	NE-CZ-NH1	-10.82	114.89	120.30
1	1-D	70[A]	ARG	CD-NE-CZ	10.73	138.63	123.60
1	1-A	284[A]	ARG	CD-NE-CZ	10.57	138.40	123.60
1	1-D	118[A]	ARG	NE-CZ-NH1	-10.54	115.03	120.30
1	1-E	118[A]	ARG	NE-CZ-NH1	-9.80	115.40	120.30
1	1-C	118[A]	ARG	CD-NE-CZ	9.25	136.55	123.60
1	1-A	118[A]	ARG	CD-NE-CZ	9.24	136.54	123.60
1	1-G	118[A]	ARG	CD-NE-CZ	8.99	136.19	123.60
1	1-H	118[A]	ARG	CD-NE-CZ	8.94	136.11	123.60
1	1-F	118[A]	ARG	NE-CZ-NH2	8.78	124.69	120.30
1	1-D	37[A]	ARG	CG-CD-NE	-7.95	95.10	111.80
1	1-F	37[A]	ARG	CG-CD-NE	-7.90	95.22	111.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1-D	118[A]	ARG	NE-CZ-NH2	7.84	124.22	120.30
1	1-E	37[A]	ARG	CG-CD-NE	-7.77	95.48	111.80
1	1-B	118[A]	ARG	NE-CZ-NH2	7.59	124.10	120.30
1	1-E	118[A]	ARG	NE-CZ-NH2	7.01	123.81	120.30
1	1-F	132[A]	ARG	CG-CD-NE	-6.98	97.13	111.80
1	1-P	118[A]	ARG	NE-CZ-NH1	-6.19	117.21	120.30
1	1-E	70[A]	ARG	NE-CZ-NH1	-6.17	117.21	120.30
1	1-M	118[A]	ARG	NE-CZ-NH1	-6.05	117.27	120.30
1	1-K	118[A]	ARG	NE-CZ-NH1	-6.00	117.30	120.30
1	1-L	118[A]	ARG	NE-CZ-NH1	-5.97	117.31	120.30
1	1-N	118[A]	ARG	NE-CZ-NH1	-5.96	117.32	120.30
1	1-I	118[A]	ARG	NE-CZ-NH1	-5.84	117.38	120.30
1	1-J	118[A]	ARG	NE-CZ-NH1	-5.79	117.41	120.30
1	1-O	118[A]	ARG	NE-CZ-NH1	-5.74	117.43	120.30
1	1-G	70[A]	ARG	NE-CZ-NH1	-5.70	117.45	120.30
1	1-B	70[A]	ARG	NE-CZ-NH1	-5.57	117.52	120.30
1	1-H	37[A]	ARG	NE-CZ-NH2	-5.56	117.52	120.30
1	1-G	70[A]	ARG	NE-CZ-NH2	5.51	123.05	120.30
1	1-O	141[A]	ALA	N-CA-CB	-5.50	102.40	110.10
1	1-I	141[A]	ALA	N-CA-CB	-5.47	102.44	110.10
1	1-N	141[A]	ALA	N-CA-CB	-5.47	102.44	110.10
1	1-P	141[A]	ALA	N-CA-CB	-5.45	102.47	110.10
1	1-L	141[A]	ALA	N-CA-CB	-5.44	102.49	110.10
1	1-M	141[A]	ALA	N-CA-CB	-5.42	102.52	110.10
1	1-K	141[A]	ALA	N-CA-CB	-5.40	102.54	110.10
1	1-J	141[A]	ALA	N-CA-CB	-5.40	102.54	110.10
1	1-F	141[A]	ALA	N-CA-CB	-5.34	102.62	110.10
1	1-H	141[A]	ALA	N-CA-CB	-5.30	102.67	110.10
1	1-A	37[A]	ARG	NE-CZ-NH2	-5.30	117.65	120.30
1	1-E	141[A]	ALA	N-CA-CB	-5.28	102.70	110.10
1	1-B	141[A]	ALA	N-CA-CB	-5.22	102.78	110.10
1	1-H	37[A]	ARG	NE-CZ-NH1	5.22	122.91	120.30
1	1-G	37[A]	ARG	NE-CZ-NH2	-5.19	117.70	120.30
1	1-D	141[A]	ALA	N-CA-CB	-5.17	102.87	110.10
1	1-G	141[A]	ALA	N-CA-CB	-5.15	102.89	110.10
1	1-A	141[A]	ALA	N-CA-CB	-5.14	102.90	110.10
1	1-C	141[A]	ALA	N-CA-CB	-5.13	102.91	110.10
1	1-H	70[A]	ARG	NE-CZ-NH1	-5.12	117.74	120.30
1	1-P	118[A]	ARG	NE-CZ-NH2	5.10	122.85	120.30
1	1-F	70[A]	ARG	NE-CZ-NH1	-5.07	117.76	120.30
1	1-G	37[A]	ARG	NE-CZ-NH1	5.05	122.83	120.30
1	1-J	118[A]	ARG	NE-CZ-NH2	5.04	122.82	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1-C	37[A]	ARG	NE-CZ-NH2	-5.02	117.79	120.30
1	1-K	118[A]	ARG	NE-CZ-NH2	5.00	122.80	120.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1-A	2427	0	2393	50	0
1	1-B	2431	0	2397	45	0
1	1-C	2427	0	2393	49	0
1	1-D	2431	0	2397	48	0
1	1-E	2431	0	2397	43	0
1	1-F	2431	0	2397	53	14
1	1-G	2431	0	2397	35	0
1	1-H	2431	0	2397	51	0
1	1-I	2387	0	2360	40	0
1	1-J	2387	0	2360	47	0
1	1-K	2387	0	2360	47	0
1	1-L	2387	0	2360	46	0
1	1-M	2387	0	2360	41	541
1	1-N	2387	0	2360	46	659
1	1-O	2387	0	2360	37	0
1	1-P	2387	0	2360	38	14
1	2-A	2427	0	2393	50	0
1	2-B	2431	0	2397	45	0
1	2-C	2427	0	2393	49	0
1	2-D	2431	0	2397	48	0
1	2-E	2431	0	2397	43	0
1	2-F	2431	0	2397	53	0
1	2-G	2431	0	2397	35	0
1	2-H	2431	0	2397	47	0
1	2-I	2387	0	2360	45	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	2-J	2387	0	2360	46	2
1	2-K	2387	0	2360	51	0
1	2-L	2387	0	2360	46	0
1	2-M	2387	0	2360	46	451
1	2-N	2387	0	2360	49	592
1	2-O	2387	0	2360	45	2
1	2-P	2387	0	2360	45	0
1	3-A	2427	0	2393	50	0
1	3-B	2431	0	2397	45	4
1	3-C	2427	0	2393	49	0
1	3-D	2431	0	2397	48	0
1	3-E	2431	0	2397	43	0
1	3-F	2431	0	2397	53	0
1	3-G	2431	0	2397	35	0
1	3-H	2431	0	2397	61	0
1	3-I	2387	0	2360	46	0
1	3-J	2387	0	2360	45	0
1	3-K	2387	0	2360	49	0
1	3-L	2387	0	2360	45	0
1	3-M	2387	0	2360	44	0
1	3-N	2387	0	2360	62	0
1	3-O	2387	0	2360	46	511
1	3-P	2387	0	2360	45	589
1	4-A	2427	0	2393	50	0
1	4-B	2431	0	2397	45	0
1	4-C	2427	0	2393	49	0
1	4-D	2431	0	2397	48	0
1	4-E	2431	0	2397	43	0
1	4-F	2431	0	2397	53	0
1	4-G	2431	0	2397	35	0
1	4-H	2431	0	2397	47	0
1	4-I	2387	0	2360	45	0
1	4-J	2387	0	2360	44	0
1	4-K	2387	0	2360	52	0
1	4-L	2387	0	2360	46	0
1	4-M	2387	0	2360	44	0
1	4-N	2387	0	2360	46	0
1	4-O	2387	0	2360	45	492
1	4-P	2387	0	2360	45	612
2	1-A	20	0	10	0	0
2	1-B	20	0	10	0	0
2	1-C	20	0	10	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	1-D	20	0	10	0	0
2	1-E	20	0	10	0	0
2	1-F	20	0	10	0	0
2	1-G	20	0	10	0	0
2	1-H	20	0	10	0	0
2	1-I	20	0	10	1	0
2	1-J	20	0	10	1	0
2	1-K	20	0	10	1	0
2	1-L	20	0	10	1	0
2	1-M	20	0	10	1	0
2	1-N	20	0	10	1	21
2	1-O	20	0	10	1	0
2	1-P	20	0	10	1	0
2	2-A	20	0	10	0	0
2	2-B	20	0	10	0	0
2	2-C	20	0	10	0	0
2	2-D	20	0	10	0	0
2	2-E	20	0	10	0	0
2	2-F	20	0	10	0	0
2	2-G	20	0	10	0	0
2	2-H	20	0	10	0	0
2	2-I	20	0	10	1	0
2	2-J	20	0	10	1	0
2	2-K	20	0	10	1	0
2	2-L	20	0	10	1	0
2	2-M	20	0	10	1	0
2	2-N	20	0	10	1	25
2	2-O	20	0	10	1	0
2	2-P	20	0	10	1	0
2	3-A	20	0	10	0	0
2	3-B	20	0	10	0	0
2	3-C	20	0	10	0	0
2	3-D	20	0	10	0	0
2	3-E	20	0	10	0	0
2	3-F	20	0	10	0	0
2	3-G	20	0	10	0	0
2	3-H	20	0	10	0	0
2	3-I	20	0	10	1	0
2	3-J	20	0	10	1	0
2	3-K	20	0	10	1	0
2	3-L	20	0	10	1	0
2	3-M	20	0	10	1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	3-N	20	0	10	1	0
2	3-O	20	0	10	1	0
2	3-P	20	0	10	1	15
2	4-A	20	0	10	0	0
2	4-B	20	0	10	0	0
2	4-C	20	0	10	0	0
2	4-D	20	0	10	0	0
2	4-E	20	0	10	0	0
2	4-F	20	0	10	0	0
2	4-G	20	0	10	0	0
2	4-H	20	0	10	0	0
2	4-I	20	0	10	1	0
2	4-J	20	0	10	1	0
2	4-K	20	0	10	1	0
2	4-L	20	0	10	1	0
2	4-M	20	0	10	1	0
2	4-N	20	0	10	1	0
2	4-O	20	0	10	1	0
2	4-P	20	0	10	1	27
3	1-A	35	0	21	1	0
3	1-B	35	0	21	1	0
3	1-C	35	0	21	1	0
3	1-D	35	0	21	1	0
3	1-E	35	0	21	0	0
3	1-F	35	0	21	1	0
3	1-G	35	0	21	0	0
3	1-H	35	0	21	1	0
3	2-A	35	0	21	1	0
3	2-B	35	0	21	1	0
3	2-C	35	0	21	1	0
3	2-D	35	0	21	1	0
3	2-E	35	0	21	0	0
3	2-F	35	0	21	1	0
3	2-G	35	0	21	0	0
3	2-H	35	0	21	1	0
3	3-A	35	0	21	1	0
3	3-B	35	0	21	1	0
3	3-C	35	0	21	1	0
3	3-D	35	0	21	1	0
3	3-E	35	0	21	0	0
3	3-F	35	0	21	1	0
3	3-G	35	0	21	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	3-H	35	0	21	1	0
3	4-A	35	0	21	1	0
3	4-B	35	0	21	1	0
3	4-C	35	0	21	1	0
3	4-D	35	0	21	1	0
3	4-E	35	0	21	0	0
3	4-F	35	0	21	1	0
3	4-G	35	0	21	0	0
3	4-H	35	0	21	1	0
4	1-A	185	0	0	4	0
4	1-B	143	0	0	7	0
4	1-C	151	0	0	4	0
4	1-D	148	0	0	5	0
4	1-E	155	0	0	6	0
4	1-F	138	0	0	6	0
4	1-G	153	0	0	3	0
4	1-H	139	0	0	2	0
4	2-A	185	0	0	4	0
4	2-B	143	0	0	7	0
4	2-C	151	0	0	4	0
4	2-D	148	0	0	5	0
4	2-E	155	0	0	6	0
4	2-F	138	0	0	6	0
4	2-G	153	0	0	3	0
4	2-H	139	0	0	2	0
4	3-A	185	0	0	4	0
4	3-B	143	0	0	7	0
4	3-C	151	0	0	4	0
4	3-D	148	0	0	5	0
4	3-E	155	0	0	6	0
4	3-F	138	0	0	6	0
4	3-G	153	0	0	3	0
4	3-H	139	0	0	2	0
4	4-A	185	0	0	4	0
4	4-B	143	0	0	7	0
4	4-C	151	0	0	4	0
4	4-D	148	0	0	5	0
4	4-E	155	0	0	6	0
4	4-F	138	0	0	6	0
4	4-G	153	0	0	3	0
4	4-H	139	0	0	2	0
All	All	161392	0	153504	2427	2494

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 8.

All (2427) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:201[C]:ASP:HB3	1:N:273[C]:GLU:CG	1.82	1.08
1:H:287[A]:GLU:HG2	1:J:146[A]:LYS:HZ3	1.25	0.99
1:H:287[A]:GLU:HG2	1:J:146[A]:LYS:NZ	1.78	0.98
1:H:201[C]:ASP:HB3	1:N:273[C]:GLU:HG2	1.45	0.93
1:H:202[C]:SER:HB3	1:N:275[C]:ARG:HG3	1.54	0.89
1:A:284[D]:ARG:HD3	1:A:299[D]:ASP:OD1	1.75	0.86
1:A:284[A]:ARG:HD3	1:A:299[A]:ASP:OD1	1.75	0.86
1:A:284[C]:ARG:HD3	1:A:299[C]:ASP:OD1	1.75	0.86
1:A:284[B]:ARG:HD3	1:A:299[B]:ASP:OD1	1.75	0.86
1:H:14[C]:SER:OG	1:N:199[C]:PRO:HB3	1.76	0.85
1:H:201[D]:ASP:CG	1:H:202[D]:SER:H	1.81	0.82
1:H:201[A]:ASP:CG	1:H:202[A]:SER:H	1.81	0.82
1:H:201[C]:ASP:CG	1:H:202[C]:SER:H	1.81	0.82
1:H:201[B]:ASP:CG	1:H:202[B]:SER:H	1.81	0.82
1:E:22[D]:GLN:HE22	1:E:55[D]:ARG:H	1.28	0.82
1:E:22[A]:GLN:HE22	1:E:55[A]:ARG:H	1.28	0.82
1:E:22[C]:GLN:HE22	1:E:55[C]:ARG:H	1.28	0.82
1:E:22[B]:GLN:HE22	1:E:55[B]:ARG:H	1.28	0.82
1:B:22[D]:GLN:HE22	1:B:55[D]:ARG:H	1.27	0.81
1:B:22[A]:GLN:HE22	1:B:55[A]:ARG:H	1.27	0.81
1:B:22[C]:GLN:HE22	1:B:55[C]:ARG:H	1.27	0.81
1:B:22[B]:GLN:HE22	1:B:55[B]:ARG:H	1.27	0.81
1:D:22[D]:GLN:HE22	1:D:55[D]:ARG:H	1.27	0.81
1:D:22[A]:GLN:HE22	1:D:55[A]:ARG:H	1.27	0.81
1:D:22[C]:GLN:HE22	1:D:55[C]:ARG:H	1.27	0.81
1:D:22[B]:GLN:HE22	1:D:55[B]:ARG:H	1.27	0.81
1:H:202[D]:SER:C	1:H:204[D]:GLY:H	1.82	0.80
1:H:202[A]:SER:C	1:H:204[A]:GLY:H	1.82	0.80
1:H:202[C]:SER:C	1:H:204[C]:GLY:H	1.82	0.80
1:H:202[B]:SER:C	1:H:204[B]:GLY:H	1.82	0.80
1:H:202[D]:SER:O	1:H:204[D]:GLY:N	2.15	0.80
1:C:22[D]:GLN:HE22	1:C:55[D]:ARG:H	1.28	0.80
1:H:202[A]:SER:O	1:H:204[A]:GLY:N	2.15	0.80
1:C:22[A]:GLN:HE22	1:C:55[A]:ARG:H	1.28	0.80
1:H:202[C]:SER:O	1:H:204[C]:GLY:N	2.15	0.80
1:C:22[C]:GLN:HE22	1:C:55[C]:ARG:H	1.28	0.80
1:H:202[B]:SER:O	1:H:204[B]:GLY:N	2.15	0.80
1:C:22[B]:GLN:HE22	1:C:55[B]:ARG:H	1.28	0.80
1:A:22[D]:GLN:HE22	1:A:55[D]:ARG:H	1.28	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:22[A]:GLN:HE22	1:A:55[A]:ARG:H	1.28	0.80
1:A:22[C]:GLN:HE22	1:A:55[C]:ARG:H	1.28	0.80
1:A:22[B]:GLN:HE22	1:A:55[B]:ARG:H	1.28	0.80
1:H:185[D]:PRO:HG3	4:H:1363[D]:HOH:O	1.80	0.79
1:H:185[A]:PRO:HG3	4:H:1363[A]:HOH:O	1.80	0.79
1:H:185[C]:PRO:HG3	4:H:1363[C]:HOH:O	1.80	0.79
1:H:185[B]:PRO:HG3	4:H:1363[B]:HOH:O	1.80	0.79
1:A:190[D]:PHE:HE2	1:B:190[D]:PHE:HE2	1.30	0.79
1:G:190[D]:PHE:HE2	1:H:190[D]:PHE:HE2	1.29	0.79
1:G:190[A]:PHE:HE2	1:H:190[A]:PHE:HE2	1.29	0.79
1:A:190[A]:PHE:HE2	1:B:190[A]:PHE:HE2	1.30	0.79
1:G:190[C]:PHE:HE2	1:H:190[C]:PHE:HE2	1.29	0.79
1:A:190[C]:PHE:HE2	1:B:190[C]:PHE:HE2	1.30	0.79
1:G:190[B]:PHE:HE2	1:H:190[B]:PHE:HE2	1.29	0.79
1:A:190[B]:PHE:HE2	1:B:190[B]:PHE:HE2	1.30	0.79
1:B:55[D]:ARG:NH2	4:B:975[D]:HOH:O	2.15	0.79
1:B:55[A]:ARG:NH2	4:B:975[A]:HOH:O	2.15	0.79
1:B:55[C]:ARG:NH2	4:B:975[C]:HOH:O	2.15	0.79
1:B:55[B]:ARG:NH2	4:B:975[B]:HOH:O	2.15	0.79
1:E:190[D]:PHE:HE2	1:F:190[D]:PHE:HE2	1.30	0.79
1:C:190[D]:PHE:HE2	1:D:190[D]:PHE:HE2	1.30	0.79
1:C:190[A]:PHE:HE2	1:D:190[A]:PHE:HE2	1.30	0.79
1:E:190[A]:PHE:HE2	1:F:190[A]:PHE:HE2	1.30	0.79
1:E:190[C]:PHE:HE2	1:F:190[C]:PHE:HE2	1.30	0.79
1:C:190[C]:PHE:HE2	1:D:190[C]:PHE:HE2	1.30	0.79
1:E:190[B]:PHE:HE2	1:F:190[B]:PHE:HE2	1.30	0.79
1:C:190[B]:PHE:HE2	1:D:190[B]:PHE:HE2	1.30	0.79
1:G:190[D]:PHE:CE2	1:H:190[D]:PHE:HE2	2.03	0.77
1:H:22[D]:GLN:HE22	1:H:55[D]:ARG:H	1.30	0.77
1:G:190[A]:PHE:CE2	1:H:190[A]:PHE:HE2	2.03	0.77
1:H:22[A]:GLN:HE22	1:H:55[A]:ARG:H	1.30	0.77
1:G:190[C]:PHE:CE2	1:H:190[C]:PHE:HE2	2.03	0.77
1:H:22[C]:GLN:HE22	1:H:55[C]:ARG:H	1.30	0.77
1:G:190[B]:PHE:CE2	1:H:190[B]:PHE:HE2	2.03	0.77
1:H:22[B]:GLN:HE22	1:H:55[B]:ARG:H	1.30	0.77
1:G:22[D]:GLN:HE22	1:G:55[D]:ARG:H	1.33	0.77
1:G:22[A]:GLN:HE22	1:G:55[A]:ARG:H	1.33	0.77
1:G:22[C]:GLN:HE22	1:G:55[C]:ARG:H	1.33	0.77
1:G:22[B]:GLN:HE22	1:G:55[B]:ARG:H	1.33	0.77
1:G:190[D]:PHE:HE2	1:H:190[D]:PHE:CE2	2.03	0.77
1:G:190[A]:PHE:HE2	1:H:190[A]:PHE:CE2	2.03	0.77
1:G:190[C]:PHE:HE2	1:H:190[C]:PHE:CE2	2.03	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:190[B]:PHE:HE2	1:H:190[B]:PHE:CE2	2.03	0.77
1:L:22[D]:GLN:HE22	1:L:55[D]:ARG:H	1.31	0.77
1:F:22[D]:GLN:HE22	1:F:55[D]:ARG:H	1.32	0.76
1:F:22[A]:GLN:HE22	1:F:55[A]:ARG:H	1.32	0.76
1:F:22[C]:GLN:HE22	1:F:55[C]:ARG:H	1.32	0.76
1:F:22[B]:GLN:HE22	1:F:55[B]:ARG:H	1.32	0.76
1:L:22[B]:GLN:HE22	1:L:55[B]:ARG:H	1.34	0.75
1:L:22[C]:GLN:HE22	1:L:55[C]:ARG:H	1.34	0.74
1:L:22[A]:GLN:HE22	1:L:55[A]:ARG:H	1.34	0.74
1:A:190[D]:PHE:CE2	1:B:190[D]:PHE:HE2	2.04	0.74
1:A:190[A]:PHE:CE2	1:B:190[A]:PHE:HE2	2.04	0.74
1:A:190[C]:PHE:CE2	1:B:190[C]:PHE:HE2	2.04	0.74
1:A:190[B]:PHE:CE2	1:B:190[B]:PHE:HE2	2.04	0.74
1:E:44[D]:GLY:O	1:E:260[D]:ARG:HG2	1.88	0.74
1:E:44[A]:GLY:O	1:E:260[A]:ARG:HG2	1.88	0.74
1:E:44[C]:GLY:O	1:E:260[C]:ARG:HG2	1.88	0.74
1:E:44[B]:GLY:O	1:E:260[B]:ARG:HG2	1.88	0.74
1:E:190[D]:PHE:HE2	1:F:190[D]:PHE:CE2	2.06	0.74
1:E:190[A]:PHE:HE2	1:F:190[A]:PHE:CE2	2.06	0.74
1:E:190[C]:PHE:HE2	1:F:190[C]:PHE:CE2	2.06	0.74
1:E:190[B]:PHE:HE2	1:F:190[B]:PHE:CE2	2.06	0.74
1:A:190[D]:PHE:HE2	1:B:190[D]:PHE:CE2	2.06	0.73
1:A:190[A]:PHE:HE2	1:B:190[A]:PHE:CE2	2.06	0.73
1:A:190[C]:PHE:HE2	1:B:190[C]:PHE:CE2	2.06	0.73
1:A:190[B]:PHE:HE2	1:B:190[B]:PHE:CE2	2.06	0.73
1:C:190[D]:PHE:HE2	1:D:190[D]:PHE:CE2	2.06	0.73
1:C:190[A]:PHE:HE2	1:D:190[A]:PHE:CE2	2.06	0.73
1:C:190[C]:PHE:HE2	1:D:190[C]:PHE:CE2	2.06	0.73
1:C:190[B]:PHE:HE2	1:D:190[B]:PHE:CE2	2.06	0.73
1:C:190[D]:PHE:CE2	1:D:190[D]:PHE:HE2	2.05	0.73
1:C:190[A]:PHE:CE2	1:D:190[A]:PHE:HE2	2.05	0.73
1:C:190[C]:PHE:CE2	1:D:190[C]:PHE:HE2	2.05	0.73
1:C:190[B]:PHE:CE2	1:D:190[B]:PHE:HE2	2.05	0.73
1:K:22[A]:GLN:HE22	1:K:55[A]:ARG:H	1.37	0.72
1:I:22[A]:GLN:HE22	1:I:55[A]:ARG:H	1.38	0.72
1:N:22[D]:GLN:HE22	1:N:55[D]:ARG:H	1.36	0.72
1:N:22[B]:GLN:HE22	1:N:55[B]:ARG:H	1.37	0.72
1:H:201[C]:ASP:HB3	1:N:273[C]:GLU:CB	2.20	0.71
1:N:22[A]:GLN:HE22	1:N:55[A]:ARG:H	1.35	0.71
1:N:22[C]:GLN:HE22	1:N:55[C]:ARG:H	1.37	0.71
1:G:190[D]:PHE:CE2	1:H:190[D]:PHE:CE2	2.78	0.71
1:E:190[D]:PHE:CE2	1:F:190[D]:PHE:HE2	2.07	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:190[A]:PHE:CE2	1:H:190[A]:PHE:CE2	2.78	0.71
1:E:190[A]:PHE:CE2	1:F:190[A]:PHE:HE2	2.07	0.71
1:G:190[C]:PHE:CE2	1:H:190[C]:PHE:CE2	2.78	0.71
1:E:190[C]:PHE:CE2	1:F:190[C]:PHE:HE2	2.07	0.71
1:G:190[B]:PHE:CE2	1:H:190[B]:PHE:CE2	2.78	0.71
1:E:190[B]:PHE:CE2	1:F:190[B]:PHE:HE2	2.07	0.71
1:K:22[D]:GLN:HE22	1:K:55[D]:ARG:H	1.39	0.71
1:H:202[D]:SER:C	1:H:204[D]:GLY:N	2.42	0.71
1:H:202[A]:SER:C	1:H:204[A]:GLY:N	2.42	0.71
1:H:202[C]:SER:C	1:H:204[C]:GLY:N	2.42	0.71
1:H:202[B]:SER:C	1:H:204[B]:GLY:N	2.42	0.71
1:D:108[D]:GLU:HG3	4:D:1117[D]:HOH:O	1.89	0.71
1:G:107[D]:LYS:HD2	1:G:111[D]:GLU:HG3	1.73	0.71
1:D:108[A]:GLU:HG3	4:D:1117[A]:HOH:O	1.89	0.71
1:G:107[A]:LYS:HD2	1:G:111[A]:GLU:HG3	1.73	0.71
1:D:108[C]:GLU:HG3	4:D:1117[C]:HOH:O	1.89	0.71
1:G:107[C]:LYS:HD2	1:G:111[C]:GLU:HG3	1.73	0.71
1:D:108[B]:GLU:HG3	4:D:1117[B]:HOH:O	1.89	0.71
1:G:107[B]:LYS:HD2	1:G:111[B]:GLU:HG3	1.73	0.71
1:D:44[D]:GLY:O	1:D:260[D]:ARG:HG2	1.92	0.70
1:D:44[A]:GLY:O	1:D:260[A]:ARG:HG2	1.92	0.70
1:D:44[C]:GLY:O	1:D:260[C]:ARG:HG2	1.92	0.70
1:D:44[B]:GLY:O	1:D:260[B]:ARG:HG2	1.92	0.70
1:P:22[A]:GLN:HE22	1:P:55[A]:ARG:H	1.37	0.70
1:O:22[A]:GLN:HE22	1:O:55[A]:ARG:H	1.39	0.69
1:I:22[D]:GLN:HE22	1:I:55[D]:ARG:H	1.40	0.69
1:A:107[D]:LYS:HG3	1:A:111[D]:GLU:OE2	1.92	0.69
1:A:107[A]:LYS:HG3	1:A:111[A]:GLU:OE2	1.92	0.69
1:A:107[C]:LYS:HG3	1:A:111[C]:GLU:OE2	1.92	0.69
1:A:107[B]:LYS:HG3	1:A:111[B]:GLU:OE2	1.92	0.69
1:M:22[A]:GLN:HE22	1:M:55[A]:ARG:H	1.39	0.69
1:A:14[D]:SER:HB3	1:A:273[D]:GLU:OE1	1.91	0.69
1:J:22[A]:GLN:HE22	1:J:55[A]:ARG:H	1.38	0.69
1:A:14[A]:SER:HB3	1:A:273[A]:GLU:OE1	1.91	0.69
1:A:14[C]:SER:HB3	1:A:273[C]:GLU:OE1	1.91	0.69
1:A:14[B]:SER:HB3	1:A:273[B]:GLU:OE1	1.91	0.69
1:B:44[D]:GLY:O	1:B:260[D]:ARG:HG2	1.93	0.69
1:B:44[A]:GLY:O	1:B:260[A]:ARG:HG2	1.93	0.69
1:K:22[C]:GLN:HE22	1:K:55[C]:ARG:H	1.41	0.69
1:B:44[C]:GLY:O	1:B:260[C]:ARG:HG2	1.93	0.69
1:B:44[B]:GLY:O	1:B:260[B]:ARG:HG2	1.93	0.69
1:K:22[B]:GLN:HE22	1:K:55[B]:ARG:H	1.41	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:22[C]:GLN:HE22	1:I:55[C]:ARG:H	1.41	0.68
1:I:22[B]:GLN:HE22	1:I:55[B]:ARG:H	1.41	0.68
1:F:44[D]:GLY:O	1:F:260[D]:ARG:HG2	1.94	0.68
1:F:44[A]:GLY:O	1:F:260[A]:ARG:HG2	1.94	0.68
1:F:44[C]:GLY:O	1:F:260[C]:ARG:HG2	1.94	0.68
1:F:44[B]:GLY:O	1:F:260[B]:ARG:HG2	1.94	0.68
1:F:14[D]:SER:HB3	1:F:273[D]:GLU:OE1	1.94	0.68
1:H:44[D]:GLY:O	1:H:260[D]:ARG:HG2	1.94	0.68
1:F:14[A]:SER:HB3	1:F:273[A]:GLU:OE1	1.94	0.68
1:H:44[A]:GLY:O	1:H:260[A]:ARG:HG2	1.94	0.68
1:F:14[C]:SER:HB3	1:F:273[C]:GLU:OE1	1.94	0.68
1:H:44[C]:GLY:O	1:H:260[C]:ARG:HG2	1.94	0.68
1:H:44[B]:GLY:O	1:H:260[B]:ARG:HG2	1.94	0.68
1:F:14[B]:SER:HB3	1:F:273[B]:GLU:OE1	1.94	0.68
1:J:47[D]:ALA:HB2	1:J:257[D]:HIS:HB3	1.76	0.68
1:J:47[C]:ALA:HB2	1:J:257[C]:HIS:HB3	1.76	0.68
1:E:286[D]:LYS:HA	4:E:529[D]:HOH:O	1.93	0.67
1:E:286[A]:LYS:HA	4:E:529[A]:HOH:O	1.93	0.67
1:O:190[A]:PHE:CE2	1:P:190[A]:PHE:HE2	2.12	0.67
1:E:286[C]:LYS:HA	4:E:529[C]:HOH:O	1.93	0.67
1:P:22[C]:GLN:HE22	1:P:55[C]:ARG:H	1.39	0.67
1:E:286[B]:LYS:HA	4:E:529[B]:HOH:O	1.93	0.67
1:A:190[D]:PHE:CE2	1:B:190[D]:PHE:CE2	2.80	0.67
1:A:190[A]:PHE:CE2	1:B:190[A]:PHE:CE2	2.80	0.67
1:A:190[C]:PHE:CE2	1:B:190[C]:PHE:CE2	2.80	0.67
1:A:190[B]:PHE:CE2	1:B:190[B]:PHE:CE2	2.80	0.67
1:J:47[B]:ALA:HB2	1:J:257[B]:HIS:HB3	1.76	0.67
1:O:47[B]:ALA:HB2	1:O:257[B]:HIS:HB3	1.77	0.67
1:E:190[D]:PHE:CE2	1:F:190[D]:PHE:CE2	2.83	0.67
1:C:190[D]:PHE:CE2	1:D:190[D]:PHE:CE2	2.81	0.67
1:C:190[A]:PHE:CE2	1:D:190[A]:PHE:CE2	2.81	0.67
1:E:190[A]:PHE:CE2	1:F:190[A]:PHE:CE2	2.83	0.67
1:E:190[C]:PHE:CE2	1:F:190[C]:PHE:CE2	2.83	0.67
1:C:190[C]:PHE:CE2	1:D:190[C]:PHE:CE2	2.81	0.67
1:E:190[B]:PHE:CE2	1:F:190[B]:PHE:CE2	2.83	0.67
1:C:190[B]:PHE:CE2	1:D:190[B]:PHE:CE2	2.81	0.67
1:P:22[B]:GLN:HE22	1:P:55[B]:ARG:H	1.40	0.67
1:M:22[D]:GLN:HE22	1:M:55[D]:ARG:H	1.42	0.66
1:O:47[C]:ALA:HB2	1:O:257[C]:HIS:HB3	1.78	0.66
1:D:118[D]:ARG:HD3	4:D:901[D]:HOH:O	1.96	0.66
1:D:118[A]:ARG:HD3	4:D:901[A]:HOH:O	1.96	0.66
1:D:118[C]:ARG:HD3	4:D:901[C]:HOH:O	1.96	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:118[B]:ARG:HD3	4:D:901[B]:HOH:O	1.96	0.66
1:O:47[D]:ALA:HB2	1:O:257[D]:HIS:HB3	1.78	0.66
1:P:22[D]:GLN:HE22	1:P:55[D]:ARG:H	1.41	0.66
1:M:22[B]:GLN:HE22	1:M:55[B]:ARG:H	1.42	0.66
1:H:200[C]:ALA:HB3	1:N:273[C]:GLU:OE2	1.96	0.66
1:B:118[D]:ARG:HD3	4:B:1013[D]:HOH:O	1.96	0.65
1:B:118[A]:ARG:HD3	4:B:1013[A]:HOH:O	1.96	0.65
1:B:118[C]:ARG:HD3	4:B:1013[C]:HOH:O	1.96	0.65
1:B:118[B]:ARG:HD3	4:B:1013[B]:HOH:O	1.96	0.65
1:M:47[D]:ALA:HB2	1:M:257[D]:HIS:HB3	1.78	0.65
1:H:201[D]:ASP:CG	1:H:202[D]:SER:N	2.50	0.65
1:H:201[A]:ASP:CG	1:H:202[A]:SER:N	2.50	0.65
1:H:201[C]:ASP:CG	1:H:202[C]:SER:N	2.50	0.65
1:H:201[B]:ASP:CG	1:H:202[B]:SER:N	2.50	0.65
1:G:44[D]:GLY:O	1:G:260[D]:ARG:HG2	1.97	0.65
1:H:14[D]:SER:HB3	1:H:273[D]:GLU:OE1	1.96	0.65
1:H:14[A]:SER:HB3	1:H:273[A]:GLU:OE1	1.96	0.65
1:G:44[A]:GLY:O	1:G:260[A]:ARG:HG2	1.97	0.65
1:H:14[C]:SER:HB3	1:H:273[C]:GLU:OE1	1.96	0.65
1:M:47[C]:ALA:HB2	1:M:257[C]:HIS:HB3	1.79	0.65
1:G:44[C]:GLY:O	1:G:260[C]:ARG:HG2	1.97	0.65
1:G:44[B]:GLY:O	1:G:260[B]:ARG:HG2	1.97	0.65
1:H:14[B]:SER:HB3	1:H:273[B]:GLU:OE1	1.96	0.65
1:A:44[D]:GLY:O	1:A:260[D]:ARG:HG2	1.96	0.65
1:K:190[A]:PHE:HE2	1:L:190[A]:PHE:HE2	1.44	0.65
1:A:44[A]:GLY:O	1:A:260[A]:ARG:HG2	1.96	0.65
1:A:44[C]:GLY:O	1:A:260[C]:ARG:HG2	1.96	0.65
1:M:22[C]:GLN:HE22	1:M:55[C]:ARG:H	1.43	0.65
1:A:44[B]:GLY:O	1:A:260[B]:ARG:HG2	1.96	0.65
1:C:107[D]:LYS:HG3	1:C:111[D]:GLU:OE2	1.97	0.65
1:C:107[A]:LYS:HG3	1:C:111[A]:GLU:OE2	1.97	0.65
1:C:107[C]:LYS:HG3	1:C:111[C]:GLU:OE2	1.97	0.65
1:C:107[B]:LYS:HG3	1:C:111[B]:GLU:OE2	1.97	0.65
1:H:43[D]:THR:HG21	1:H:316[D]:SER:OG	1.97	0.65
1:D:43[D]:THR:HG21	1:D:316[D]:SER:OG	1.96	0.65
1:O:190[A]:PHE:HE2	1:P:190[A]:PHE:CE2	2.15	0.65
1:H:43[A]:THR:HG21	1:H:316[A]:SER:OG	1.97	0.65
1:D:43[A]:THR:HG21	1:D:316[A]:SER:OG	1.96	0.65
1:N:47[C]:ALA:HB2	1:N:257[C]:HIS:HB3	1.77	0.65
1:H:43[C]:THR:HG21	1:H:316[C]:SER:OG	1.97	0.65
1:D:43[C]:THR:HG21	1:D:316[C]:SER:OG	1.96	0.65
1:N:47[B]:ALA:HB2	1:N:257[B]:HIS:HB3	1.78	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:43[B]:THR:HG21	1:D:316[B]:SER:OG	1.96	0.65
1:H:43[B]:THR:HG21	1:H:316[B]:SER:OG	1.97	0.65
1:I:50[C]:ALA:HB2	1:J:212[C]:LEU:HD12	1.79	0.65
1:I:50[D]:ALA:HB2	1:J:212[D]:LEU:HD12	1.79	0.65
1:N:47[D]:ALA:HB2	1:N:257[D]:HIS:HB3	1.78	0.64
1:B:14[D]:SER:HB3	1:B:273[D]:GLU:OE1	1.97	0.64
1:B:14[A]:SER:HB3	1:B:273[A]:GLU:OE1	1.97	0.64
1:B:14[C]:SER:HB3	1:B:273[C]:GLU:OE1	1.97	0.64
1:M:47[B]:ALA:HB2	1:M:257[B]:HIS:HB3	1.79	0.64
1:B:14[B]:SER:HB3	1:B:273[B]:GLU:OE1	1.97	0.64
1:J:22[C]:GLN:HE22	1:J:55[C]:ARG:H	1.43	0.64
1:N:269[B]:GLN:HB2	1:N:311[B]:ILE:CD1	2.28	0.64
1:H:201[C]:ASP:H	1:N:273[C]:GLU:CD	2.01	0.64
1:J:22[B]:GLN:HE22	1:J:55[B]:ARG:H	1.43	0.64
1:O:53[D]:SER:HB3	1:O:252[D]:GLN:NE2	2.12	0.64
1:J:47[A]:ALA:HB2	1:J:257[A]:HIS:HB3	1.80	0.64
1:O:190[A]:PHE:CE2	1:P:190[A]:PHE:CE2	2.86	0.64
1:F:43[D]:THR:HG21	1:F:316[D]:SER:OG	1.98	0.64
1:N:269[D]:GLN:HB2	1:N:311[D]:ILE:CD1	2.28	0.64
1:F:43[A]:THR:HG21	1:F:316[A]:SER:OG	1.98	0.64
1:F:43[C]:THR:HG21	1:F:316[C]:SER:OG	1.98	0.64
1:F:43[B]:THR:HG21	1:F:316[B]:SER:OG	1.98	0.64
1:B:43[D]:THR:HG21	1:B:316[D]:SER:OG	1.98	0.64
1:B:43[A]:THR:HG21	1:B:316[A]:SER:OG	1.98	0.64
1:B:43[C]:THR:HG21	1:B:316[C]:SER:OG	1.98	0.64
1:B:43[B]:THR:HG21	1:B:316[B]:SER:OG	1.98	0.64
1:H:269[D]:GLN:HB2	1:H:311[D]:ILE:CD1	2.28	0.63
1:K:53[D]:SER:HB3	1:K:252[D]:GLN:NE2	2.13	0.63
1:H:269[A]:GLN:HB2	1:H:311[A]:ILE:CD1	2.28	0.63
1:H:269[C]:GLN:HB2	1:H:311[C]:ILE:CD1	2.28	0.63
1:I:269[C]:GLN:HB2	1:I:311[C]:ILE:CD1	2.28	0.63
1:H:269[B]:GLN:HB2	1:H:311[B]:ILE:CD1	2.28	0.63
1:L:47[B]:ALA:HB2	1:L:257[B]:HIS:HB3	1.80	0.63
1:A:269[D]:GLN:HB2	1:A:311[D]:ILE:CD1	2.28	0.63
1:I:269[D]:GLN:HB2	1:I:311[D]:ILE:CD1	2.28	0.63
1:A:269[A]:GLN:HB2	1:A:311[A]:ILE:CD1	2.28	0.63
1:A:269[C]:GLN:HB2	1:A:311[C]:ILE:CD1	2.28	0.63
1:L:47[C]:ALA:HB2	1:L:257[C]:HIS:HB3	1.80	0.63
1:A:269[B]:GLN:HB2	1:A:311[B]:ILE:CD1	2.28	0.63
1:K:53[B]:SER:HB3	1:K:252[B]:GLN:NE2	2.14	0.63
1:I:50[B]:ALA:HB2	1:J:212[B]:LEU:HD12	1.80	0.63
1:I:47[C]:ALA:HB2	1:I:257[C]:HIS:HB3	1.81	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:53[B]:SER:HB3	1:O:252[B]:GLN:NE2	2.13	0.63
1:F:289[D]:ILE:HB	4:F:534[D]:HOH:O	1.98	0.63
1:F:289[A]:ILE:HB	4:F:534[A]:HOH:O	1.98	0.63
1:F:289[C]:ILE:HB	4:F:534[C]:HOH:O	1.98	0.63
1:O:53[C]:SER:HB3	1:O:252[C]:GLN:NE2	2.13	0.63
1:F:289[B]:ILE:HB	4:F:534[B]:HOH:O	1.98	0.63
1:L:47[D]:ALA:HB2	1:L:257[D]:HIS:HB3	1.81	0.63
1:A:297[D]:VAL:HG23	4:A:546[D]:HOH:O	1.99	0.63
1:A:297[A]:VAL:HG23	4:A:546[A]:HOH:O	1.99	0.63
1:J:44[A]:GLY:O	1:J:260[A]:ARG:HG2	1.98	0.63
1:A:297[C]:VAL:HG23	4:A:546[C]:HOH:O	1.99	0.63
1:N:269[C]:GLN:HB2	1:N:311[C]:ILE:CD1	2.29	0.63
1:A:297[B]:VAL:HG23	4:A:546[B]:HOH:O	1.99	0.63
1:C:44[D]:GLY:O	1:C:260[D]:ARG:HG2	1.99	0.63
1:C:269[D]:GLN:HB2	1:C:311[D]:ILE:CD1	2.28	0.63
1:C:44[A]:GLY:O	1:C:260[A]:ARG:HG2	1.99	0.63
1:C:269[A]:GLN:HB2	1:C:311[A]:ILE:CD1	2.28	0.63
1:N:269[A]:GLN:HB2	1:N:311[A]:ILE:CD1	2.29	0.63
1:C:44[C]:GLY:O	1:C:260[C]:ARG:HG2	1.99	0.63
1:C:269[C]:GLN:HB2	1:C:311[C]:ILE:CD1	2.28	0.63
1:C:269[B]:GLN:HB2	1:C:311[B]:ILE:CD1	2.28	0.63
1:C:44[B]:GLY:O	1:C:260[B]:ARG:HG2	1.99	0.63
1:I:269[B]:GLN:HB2	1:I:311[B]:ILE:CD1	2.28	0.63
1:I:47[D]:ALA:HB2	1:I:257[D]:HIS:HB3	1.81	0.63
1:H:201[C]:ASP:HB3	1:N:273[C]:GLU:CD	2.18	0.63
1:J:22[D]:GLN:HE22	1:J:55[D]:ARG:H	1.45	0.62
1:M:44[A]:GLY:O	1:M:260[A]:ARG:HG2	1.99	0.62
1:P:44[A]:GLY:O	1:P:260[A]:ARG:HG2	1.99	0.62
1:I:47[B]:ALA:HB2	1:I:257[B]:HIS:HB3	1.81	0.62
1:K:190[A]:PHE:HE2	1:L:190[A]:PHE:CE2	2.18	0.62
1:M:190[A]:PHE:HE2	1:N:190[A]:PHE:HE2	1.46	0.62
1:L:53[C]:SER:HB3	1:L:252[C]:GLN:NE2	2.15	0.62
1:O:22[B]:GLN:HE22	1:O:55[B]:ARG:H	1.45	0.62
1:I:190[A]:PHE:HE2	1:J:190[A]:PHE:HE2	1.46	0.62
1:K:212[C]:LEU:HD12	1:L:50[C]:ALA:HB2	1.80	0.62
1:O:190[B]:PHE:CE2	1:P:190[B]:PHE:HE2	2.18	0.62
1:P:47[B]:ALA:HB2	1:P:257[B]:HIS:HB3	1.80	0.62
1:M:44[D]:GLY:O	1:M:260[D]:ARG:HG2	1.99	0.62
1:I:269[A]:GLN:HB2	1:I:311[A]:ILE:CD1	2.29	0.62
1:O:190[D]:PHE:CE2	1:P:190[D]:PHE:HE2	2.18	0.62
1:N:44[A]:GLY:O	1:N:260[A]:ARG:HG2	2.00	0.62
1:P:47[C]:ALA:HB2	1:P:257[C]:HIS:HB3	1.80	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:53[B]:SER:HB3	1:L:252[B]:GLN:NE2	2.15	0.62
1:L:44[A]:GLY:O	1:L:260[A]:ARG:HG2	2.00	0.62
1:I:50[A]:ALA:HB2	1:J:212[A]:LEU:HD12	1.82	0.62
1:M:212[C]:LEU:HD12	1:N:50[C]:ALA:HB2	1.81	0.62
1:K:212[B]:LEU:HD12	1:L:50[B]:ALA:HB2	1.80	0.62
1:O:269[D]:GLN:HB2	1:O:311[D]:ILE:CD1	2.29	0.62
1:O:22[D]:GLN:HE22	1:O:55[D]:ARG:H	1.45	0.62
1:M:44[C]:GLY:O	1:M:260[C]:ARG:HG2	1.99	0.62
1:O:269[C]:GLN:HB2	1:O:311[C]:ILE:CD1	2.29	0.62
1:G:117[D]:HIS:HD2	4:G:1338[D]:HOH:O	1.83	0.62
1:O:190[A]:PHE:HE2	1:P:190[A]:PHE:HE2	1.44	0.62
1:G:117[A]:HIS:HD2	4:G:1338[A]:HOH:O	1.83	0.62
1:G:117[C]:HIS:HD2	4:G:1338[C]:HOH:O	1.83	0.62
1:O:22[C]:GLN:HE22	1:O:55[C]:ARG:H	1.45	0.62
1:G:117[B]:HIS:HD2	4:G:1338[B]:HOH:O	1.83	0.62
1:C:201[D]:ASP:O	1:C:202[D]:SER:HB3	2.00	0.61
1:M:190[A]:PHE:HE2	1:N:190[A]:PHE:CE2	2.18	0.61
1:I:190[A]:PHE:HE2	1:J:190[A]:PHE:CE2	2.18	0.61
1:C:201[A]:ASP:O	1:C:202[A]:SER:HB3	2.00	0.61
1:C:201[C]:ASP:O	1:C:202[C]:SER:HB3	2.00	0.61
1:O:190[C]:PHE:CE2	1:P:190[C]:PHE:HE2	2.18	0.61
1:C:201[B]:ASP:O	1:C:202[B]:SER:HB3	2.00	0.61
1:M:190[A]:PHE:CE2	1:N:190[A]:PHE:HE2	2.19	0.61
1:O:269[A]:GLN:HB2	1:O:311[A]:ILE:CD1	2.30	0.61
1:J:53[B]:SER:HB3	1:J:252[B]:GLN:NE2	2.15	0.61
1:J:44[B]:GLY:O	1:J:260[B]:ARG:HG2	2.00	0.61
1:D:269[D]:GLN:HB2	1:D:311[D]:ILE:CD1	2.30	0.61
1:G:269[D]:GLN:HB2	1:G:311[D]:ILE:CD1	2.29	0.61
1:K:190[A]:PHE:CE2	1:L:190[A]:PHE:HE2	2.16	0.61
1:K:44[A]:GLY:O	1:K:260[A]:ARG:HG2	2.00	0.61
1:G:269[A]:GLN:HB2	1:G:311[A]:ILE:CD1	2.29	0.61
1:D:269[A]:GLN:HB2	1:D:311[A]:ILE:CD1	2.30	0.61
1:D:269[C]:GLN:HB2	1:D:311[C]:ILE:CD1	2.30	0.61
1:G:269[C]:GLN:HB2	1:G:311[C]:ILE:CD1	2.29	0.61
1:K:53[C]:SER:HB3	1:K:252[C]:GLN:NE2	2.15	0.61
1:J:44[C]:GLY:O	1:J:260[C]:ARG:HG2	2.00	0.61
1:G:269[B]:GLN:HB2	1:G:311[B]:ILE:CD1	2.29	0.61
1:D:269[B]:GLN:HB2	1:D:311[B]:ILE:CD1	2.30	0.61
1:M:212[D]:LEU:HD12	1:N:50[D]:ALA:HB2	1.81	0.61
1:L:53[D]:SER:HB3	1:L:252[D]:GLN:NE2	2.16	0.61
1:I:190[A]:PHE:CE2	1:J:190[A]:PHE:HE2	2.17	0.61
1:O:47[A]:ALA:HB2	1:O:257[A]:HIS:HB3	1.83	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:212[D]:LEU:HD12	1:L:50[D]:ALA:HB2	1.81	0.61
1:P:269[A]:GLN:HB2	1:P:311[A]:ILE:CD1	2.31	0.61
1:O:269[B]:GLN:HB2	1:O:311[B]:ILE:CD1	2.30	0.61
1:P:47[D]:ALA:HB2	1:P:257[D]:HIS:HB3	1.81	0.61
1:J:44[D]:GLY:O	1:J:260[D]:ARG:HG2	2.00	0.61
1:K:269[A]:GLN:HB2	1:K:311[A]:ILE:CD1	2.30	0.61
1:N:44[B]:GLY:O	1:N:260[B]:ARG:HG2	2.01	0.61
1:L:269[A]:GLN:HB2	1:L:311[A]:ILE:CD1	2.31	0.61
1:M:269[B]:GLN:HB2	1:M:311[B]:ILE:CD1	2.30	0.61
1:L:219[D]:ASP:HB2	2:L:500[D]:UMP:O3'	2.01	0.61
1:P:269[C]:GLN:HB2	1:P:311[C]:ILE:CD1	2.31	0.61
1:I:118[C]:ARG:HD2	1:I:122[C]:ASP:OD2	2.00	0.61
1:N:44[C]:GLY:O	1:N:260[C]:ARG:HG2	2.01	0.61
1:P:269[B]:GLN:HB2	1:P:311[B]:ILE:CD1	2.31	0.61
1:M:269[A]:GLN:HB2	1:M:311[A]:ILE:CD1	2.30	0.60
1:J:269[A]:GLN:HB2	1:J:311[A]:ILE:CD1	2.31	0.60
1:I:118[B]:ARG:HD2	1:I:122[B]:ASP:OD2	2.00	0.60
1:K:212[A]:LEU:HD12	1:L:50[A]:ALA:HB2	1.82	0.60
1:J:53[C]:SER:HB3	1:J:252[C]:GLN:NE2	2.16	0.60
1:L:44[B]:GLY:O	1:L:260[B]:ARG:HG2	2.01	0.60
1:P:269[D]:GLN:HB2	1:P:311[D]:ILE:CD1	2.32	0.60
1:M:269[C]:GLN:HB2	1:M:311[C]:ILE:CD1	2.31	0.60
1:J:53[D]:SER:HB3	1:J:252[D]:GLN:NE2	2.16	0.60
1:I:118[D]:ARG:HD2	1:I:122[D]:ASP:OD2	2.00	0.60
1:L:219[A]:ASP:HB2	2:L:500[A]:UMP:O3'	2.01	0.60
1:M:44[B]:GLY:O	1:M:260[B]:ARG:HG2	2.01	0.60
1:O:190[D]:PHE:HE2	1:P:190[D]:PHE:CE2	2.20	0.60
1:F:118[D]:ARG:HD3	4:F:1070[D]:HOH:O	2.01	0.60
1:F:118[A]:ARG:HD3	4:F:1070[A]:HOH:O	2.01	0.60
1:F:118[C]:ARG:HD3	4:F:1070[C]:HOH:O	2.01	0.60
1:F:118[B]:ARG:HD3	4:F:1070[B]:HOH:O	2.01	0.60
1:M:269[D]:GLN:HB2	1:M:311[D]:ILE:CD1	2.31	0.60
1:L:44[C]:GLY:O	1:L:260[C]:ARG:HG2	2.02	0.60
1:J:269[C]:GLN:HB2	1:J:311[C]:ILE:CD1	2.31	0.60
1:L:269[B]:GLN:HB2	1:L:311[B]:ILE:CD1	2.31	0.60
1:L:219[B]:ASP:HB2	2:L:500[B]:UMP:O3'	2.01	0.60
1:L:44[D]:GLY:O	1:L:260[D]:ARG:HG2	2.02	0.60
1:K:269[D]:GLN:HB2	1:K:311[D]:ILE:CD1	2.31	0.60
1:M:212[A]:LEU:HD12	1:N:50[A]:ALA:HB2	1.83	0.60
1:O:44[A]:GLY:O	1:O:260[A]:ARG:HG2	2.01	0.60
1:L:269[C]:GLN:HB2	1:L:311[C]:ILE:CD1	2.32	0.60
1:J:269[B]:GLN:HB2	1:J:311[B]:ILE:CD1	2.31	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:219[D]:ASP:HB2	2:J:400[D]:UMP:O3'	2.02	0.60
1:J:269[D]:GLN:HB2	1:J:311[D]:ILE:CD1	2.32	0.60
1:M:47[A]:ALA:HB2	1:M:257[A]:HIS:HB3	1.84	0.60
1:K:53[A]:SER:HB3	1:K:252[A]:GLN:NE2	2.17	0.60
1:P:44[B]:GLY:O	1:P:260[B]:ARG:HG2	2.02	0.60
1:C:14[D]:SER:HB3	1:C:273[D]:GLU:OE1	2.02	0.60
1:E:269[D]:GLN:HB2	1:E:311[D]:ILE:CD1	2.31	0.60
1:E:269[A]:GLN:HB2	1:E:311[A]:ILE:CD1	2.31	0.60
1:C:14[A]:SER:HB3	1:C:273[A]:GLU:OE1	2.02	0.60
1:C:14[C]:SER:HB3	1:C:273[C]:GLU:OE1	2.02	0.60
1:E:269[C]:GLN:HB2	1:E:311[C]:ILE:CD1	2.31	0.60
1:C:14[B]:SER:HB3	1:C:273[B]:GLU:OE1	2.02	0.60
1:M:212[B]:LEU:HD12	1:N:50[B]:ALA:HB2	1.83	0.60
1:K:269[B]:GLN:HB2	1:K:311[B]:ILE:CD1	2.32	0.60
1:M:50[B]:ALA:HB2	1:N:212[B]:LEU:HD12	1.83	0.60
1:E:269[B]:GLN:HB2	1:E:311[B]:ILE:CD1	2.31	0.60
1:F:212[D]:LEU:C	1:F:212[D]:LEU:HD23	2.22	0.59
1:F:212[A]:LEU:C	1:F:212[A]:LEU:HD23	2.22	0.59
1:O:53[A]:SER:HB3	1:O:252[A]:GLN:NE2	2.17	0.59
1:H:201[C]:ASP:N	1:N:273[C]:GLU:OE2	2.35	0.59
1:F:212[C]:LEU:C	1:F:212[C]:LEU:HD23	2.22	0.59
1:I:44[B]:GLY:O	1:I:260[B]:ARG:HG2	2.02	0.59
1:J:219[B]:ASP:HB2	2:J:400[B]:UMP:O3'	2.02	0.59
1:F:212[B]:LEU:HD23	1:F:212[B]:LEU:C	2.22	0.59
1:F:269[D]:GLN:HB2	1:F:311[D]:ILE:CD1	2.32	0.59
1:F:30[D]:ILE:HG22	1:F:46[D]:VAL:HG13	1.84	0.59
1:F:269[A]:GLN:HB2	1:F:311[A]:ILE:CD1	2.32	0.59
1:F:30[A]:ILE:HG22	1:F:46[A]:VAL:HG13	1.84	0.59
1:L:47[A]:ALA:HB2	1:L:257[A]:HIS:HB3	1.85	0.59
1:F:269[C]:GLN:HB2	1:F:311[C]:ILE:CD1	2.32	0.59
1:F:30[C]:ILE:HG22	1:F:46[C]:VAL:HG13	1.84	0.59
1:F:269[B]:GLN:HB2	1:F:311[B]:ILE:CD1	2.32	0.59
1:F:30[B]:ILE:HG22	1:F:46[B]:VAL:HG13	1.84	0.59
1:O:190[D]:PHE:CE2	1:P:190[D]:PHE:CE2	2.90	0.59
1:B:246[D]:PRO:HG2	4:B:864[D]:HOH:O	2.03	0.59
1:K:190[A]:PHE:CE2	1:L:190[A]:PHE:CE2	2.90	0.59
1:I:190[A]:PHE:CE2	1:J:190[A]:PHE:CE2	2.90	0.59
1:B:246[A]:PRO:HG2	4:B:864[A]:HOH:O	2.03	0.59
1:B:246[C]:PRO:HG2	4:B:864[C]:HOH:O	2.03	0.59
1:L:219[C]:ASP:HB2	2:L:500[C]:UMP:O3'	2.02	0.59
1:O:190[B]:PHE:CE2	1:P:190[B]:PHE:CE2	2.90	0.59
1:B:246[B]:PRO:HG2	4:B:864[B]:HOH:O	2.03	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:44[D]:GLY:O	1:N:260[D]:ARG:HG2	2.03	0.59
1:O:190[B]:PHE:HE2	1:P:190[B]:PHE:CE2	2.21	0.59
1:D:246[D]:PRO:HG2	4:D:936[D]:HOH:O	2.02	0.59
1:N:47[A]:ALA:HB2	1:N:257[A]:HIS:HB3	1.83	0.59
1:D:246[A]:PRO:HG2	4:D:936[A]:HOH:O	2.02	0.59
1:P:47[A]:ALA:HB2	1:P:257[A]:HIS:HB3	1.84	0.59
1:K:44[C]:GLY:O	1:K:260[C]:ARG:HG2	2.02	0.59
1:K:190[C]:PHE:HE2	1:L:190[C]:PHE:HE2	1.50	0.59
1:D:246[C]:PRO:HG2	4:D:936[C]:HOH:O	2.02	0.59
1:K:269[C]:GLN:HB2	1:K:311[C]:ILE:CD1	2.32	0.59
1:D:246[B]:PRO:HG2	4:D:936[B]:HOH:O	2.02	0.59
1:F:246[D]:PRO:HG2	4:F:1320[D]:HOH:O	2.02	0.59
1:J:219[A]:ASP:HB2	2:J:400[A]:UMP:O3'	2.03	0.59
1:F:246[A]:PRO:HG2	4:F:1320[A]:HOH:O	2.02	0.59
1:M:190[C]:PHE:HE2	1:N:190[C]:PHE:CE2	2.21	0.59
1:F:246[C]:PRO:HG2	4:F:1320[C]:HOH:O	2.02	0.59
1:K:190[B]:PHE:HE2	1:L:190[B]:PHE:HE2	1.50	0.59
1:F:246[B]:PRO:HG2	4:F:1320[B]:HOH:O	2.02	0.59
1:M:50[D]:ALA:HB2	1:N:212[D]:LEU:HD12	1.84	0.59
1:P:44[D]:GLY:O	1:P:260[D]:ARG:HG2	2.03	0.59
1:I:47[A]:ALA:HB2	1:I:257[A]:HIS:HB3	1.85	0.59
1:I:44[A]:GLY:O	1:I:260[A]:ARG:HG2	2.02	0.59
1:O:190[C]:PHE:CE2	1:P:190[C]:PHE:CE2	2.91	0.59
1:L:53[A]:SER:HB3	1:L:252[A]:GLN:NE2	2.18	0.59
1:O:190[C]:PHE:HE2	1:P:190[C]:PHE:CE2	2.21	0.59
1:I:53[B]:SER:HB3	1:I:252[B]:GLN:NE2	2.17	0.59
1:C:43[D]:THR:HG21	1:C:316[D]:SER:OG	2.02	0.59
1:F:117[D]:HIS:HD2	4:F:1306[D]:HOH:O	1.84	0.59
1:C:43[A]:THR:HG21	1:C:316[A]:SER:OG	2.02	0.59
1:F:117[A]:HIS:HD2	4:F:1306[A]:HOH:O	1.84	0.59
1:C:43[C]:THR:HG21	1:C:316[C]:SER:OG	2.02	0.59
1:F:117[C]:HIS:HD2	4:F:1306[C]:HOH:O	1.84	0.59
1:C:43[B]:THR:HG21	1:C:316[B]:SER:OG	2.02	0.59
1:F:117[B]:HIS:HD2	4:F:1306[B]:HOH:O	1.84	0.59
1:A:289[D]:ILE:HB	4:A:551[D]:HOH:O	2.02	0.59
1:M:190[D]:PHE:HE2	1:N:190[D]:PHE:CE2	2.21	0.59
1:A:289[A]:ILE:HB	4:A:551[A]:HOH:O	2.02	0.59
1:M:190[C]:PHE:HE2	1:N:190[C]:PHE:HE2	1.49	0.59
1:A:289[C]:ILE:HB	4:A:551[C]:HOH:O	2.02	0.59
1:N:118[C]:ARG:HD2	1:N:122[C]:ASP:OD2	2.02	0.59
1:M:50[C]:ALA:HB2	1:N:212[C]:LEU:HD12	1.84	0.59
1:K:44[B]:GLY:O	1:K:260[B]:ARG:HG2	2.03	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:289[B]:ILE:HB	4:A:551[B]:HOH:O	2.02	0.59
1:O:219[D]:ASP:HB2	2:O:650[D]:UMP:O3'	2.03	0.58
1:J:219[C]:ASP:HB2	2:J:400[C]:UMP:O3'	2.03	0.58
1:B:269[D]:GLN:HB2	1:B:311[D]:ILE:CD1	2.33	0.58
1:K:190[D]:PHE:HE2	1:L:190[D]:PHE:HE2	1.51	0.58
1:B:269[A]:GLN:HB2	1:B:311[A]:ILE:CD1	2.33	0.58
1:B:269[C]:GLN:HB2	1:B:311[C]:ILE:CD1	2.33	0.58
1:B:269[B]:GLN:HB2	1:B:311[B]:ILE:CD1	2.33	0.58
1:K:44[D]:GLY:O	1:K:260[D]:ARG:HG2	2.03	0.58
1:N:43[A]:THR:HG21	1:N:316[A]:SER:OG	2.03	0.58
1:I:53[C]:SER:HB3	1:I:252[C]:GLN:NE2	2.17	0.58
1:O:118[B]:ARG:HD2	1:O:122[B]:ASP:OD2	2.03	0.58
1:M:190[D]:PHE:HE2	1:N:190[D]:PHE:HE2	1.50	0.58
1:M:190[D]:PHE:CE2	1:N:190[D]:PHE:HE2	2.22	0.58
1:I:44[D]:GLY:O	1:I:260[D]:ARG:HG2	2.03	0.58
1:M:190[C]:PHE:CE2	1:N:190[C]:PHE:HE2	2.22	0.58
1:O:219[C]:ASP:HB2	2:O:650[C]:UMP:O3'	2.03	0.58
1:O:44[B]:GLY:O	1:O:260[B]:ARG:HG2	2.03	0.58
1:L:269[D]:GLN:HB2	1:L:311[D]:ILE:CD1	2.33	0.58
1:K:118[C]:ARG:HD2	1:K:122[C]:ASP:OD2	2.03	0.58
1:I:250[C]:ILE:HD12	1:I:250[C]:ILE:N	2.19	0.58
1:K:50[B]:ALA:HB2	1:L:212[B]:LEU:HD12	1.85	0.58
1:O:219[B]:ASP:HB2	2:O:650[B]:UMP:O3'	2.04	0.58
1:A:43[D]:THR:HG21	1:A:316[D]:SER:OG	2.03	0.58
1:N:118[D]:ARG:HD2	1:N:122[D]:ASP:OD2	2.03	0.58
1:A:43[A]:THR:HG21	1:A:316[A]:SER:OG	2.03	0.58
1:A:43[C]:THR:HG21	1:A:316[C]:SER:OG	2.03	0.58
1:O:44[C]:GLY:O	1:O:260[C]:ARG:HG2	2.02	0.58
1:A:43[B]:THR:HG21	1:A:316[B]:SER:OG	2.03	0.58
1:M:190[B]:PHE:HE2	1:N:190[B]:PHE:CE2	2.22	0.58
1:I:250[D]:ILE:HD12	1:I:250[D]:ILE:N	2.19	0.58
1:H:201[C]:ASP:HB3	1:N:273[C]:GLU:HB3	1.84	0.58
1:O:118[C]:ARG:HD2	1:O:122[C]:ASP:OD2	2.03	0.58
1:N:118[B]:ARG:HD2	1:N:122[B]:ASP:OD2	2.03	0.58
1:M:190[B]:PHE:CE2	1:N:190[B]:PHE:HE2	2.22	0.58
1:M:118[B]:ARG:HD2	1:M:122[B]:ASP:OD2	2.04	0.58
1:K:118[D]:ARG:HD2	1:K:122[D]:ASP:OD2	2.04	0.57
1:J:53[A]:SER:HB3	1:J:252[A]:GLN:NE2	2.19	0.57
1:O:219[A]:ASP:HB2	2:O:650[A]:UMP:O3'	2.04	0.57
1:K:50[D]:ALA:HB2	1:L:212[D]:LEU:HD12	1.86	0.57
1:M:118[C]:ARG:HD2	1:M:122[C]:ASP:OD2	2.04	0.57
1:I:250[B]:ILE:HD12	1:I:250[B]:ILE:N	2.20	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:190[B]:PHE:CE2	1:J:190[B]:PHE:HE2	2.21	0.57
1:I:53[D]:SER:HB3	1:I:252[D]:GLN:NE2	2.18	0.57
1:O:220[C]:LEU:HG	1:O:224[C]:VAL:HG21	1.86	0.57
1:I:44[C]:GLY:O	1:I:260[C]:ARG:HG2	2.04	0.57
1:K:47[B]:ALA:HB2	1:K:257[B]:HIS:HB3	1.87	0.57
1:F:297[D]:VAL:HG23	4:F:740[D]:HOH:O	2.03	0.57
1:F:297[A]:VAL:HG23	4:F:740[A]:HOH:O	2.03	0.57
1:F:297[C]:VAL:HG23	4:F:740[C]:HOH:O	2.03	0.57
1:K:50[C]:ALA:HB2	1:L:212[C]:LEU:HD12	1.86	0.57
1:F:297[B]:VAL:HG23	4:F:740[B]:HOH:O	2.03	0.57
1:M:118[D]:ARG:HD2	1:M:122[D]:ASP:OD2	2.04	0.57
1:I:190[D]:PHE:CE2	1:J:190[D]:PHE:HE2	2.21	0.57
1:K:190[C]:PHE:HE2	1:L:190[C]:PHE:CE2	2.23	0.57
1:I:190[C]:PHE:CE2	1:J:190[C]:PHE:HE2	2.21	0.57
1:M:190[B]:PHE:HE2	1:N:190[B]:PHE:HE2	1.51	0.57
1:M:190[A]:PHE:CE2	1:N:190[A]:PHE:CE2	2.92	0.57
1:G:246[D]:PRO:HG2	4:G:412[D]:HOH:O	2.05	0.57
1:F:132[D]:ARG:NH1	1:F:293[D]:ASP:OD1	2.38	0.57
1:G:246[A]:PRO:HG2	4:G:412[A]:HOH:O	2.05	0.57
1:F:132[A]:ARG:NH1	1:F:293[A]:ASP:OD1	2.38	0.57
1:G:246[C]:PRO:HG2	4:G:412[C]:HOH:O	2.05	0.57
1:F:132[C]:ARG:NH1	1:F:293[C]:ASP:OD1	2.38	0.57
1:P:44[C]:GLY:O	1:P:260[C]:ARG:HG2	2.05	0.57
1:I:190[B]:PHE:HE2	1:J:190[B]:PHE:HE2	1.52	0.57
1:G:246[B]:PRO:HG2	4:G:412[B]:HOH:O	2.05	0.57
1:F:132[B]:ARG:NH1	1:F:293[B]:ASP:OD1	2.38	0.57
1:H:212[D]:LEU:C	1:H:212[D]:LEU:HD23	2.25	0.57
1:N:43[D]:THR:HG21	1:N:316[D]:SER:OG	2.05	0.57
1:H:212[A]:LEU:HD23	1:H:212[A]:LEU:C	2.25	0.57
1:H:212[C]:LEU:HD23	1:H:212[C]:LEU:C	2.25	0.57
1:K:118[B]:ARG:HD2	1:K:122[B]:ASP:OD2	2.05	0.57
1:H:212[B]:LEU:C	1:H:212[B]:LEU:HD23	2.25	0.57
1:O:44[D]:GLY:O	1:O:260[D]:ARG:HG2	2.04	0.57
1:P:53[C]:SER:HB3	1:P:252[C]:GLN:NE2	2.19	0.57
1:P:53[B]:SER:HB3	1:P:252[B]:GLN:NE2	2.19	0.57
1:O:190[D]:PHE:HE2	1:P:190[D]:PHE:HE2	1.50	0.56
1:K:250[D]:ILE:HD12	1:K:250[D]:ILE:N	2.20	0.56
1:K:190[C]:PHE:CE2	1:L:190[C]:PHE:HE2	2.21	0.56
1:K:47[C]:ALA:HB2	1:K:257[C]:HIS:HB3	1.87	0.56
1:K:190[B]:PHE:HE2	1:L:190[B]:PHE:CE2	2.23	0.56
1:K:190[D]:PHE:HE2	1:L:190[D]:PHE:CE2	2.23	0.56
1:L:43[A]:THR:HG21	1:L:316[A]:SER:OG	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:43[A]:THR:HG21	1:J:316[A]:SER:OG	2.06	0.56
1:N:219[C]:ASP:HB2	2:N:600[C]:UMP:O3'	2.05	0.56
1:K:190[B]:PHE:CE2	1:L:190[B]:PHE:HE2	2.21	0.56
1:N:43[B]:THR:HG21	1:N:316[B]:SER:OG	2.05	0.56
1:L:250[B]:ILE:N	1:L:250[B]:ILE:HD12	2.20	0.56
1:I:190[D]:PHE:HE2	1:J:190[D]:PHE:HE2	1.52	0.56
1:E:53[D]:SER:HB3	1:E:252[D]:GLN:NE2	2.20	0.56
1:D:30[D]:ILE:HG22	1:D:46[D]:VAL:HG13	1.86	0.56
1:O:118[D]:ARG:HD2	1:O:122[D]:ASP:OD2	2.05	0.56
1:C:165[D]:THR:HG21	1:D:38[D]:PRO:HD2	1.88	0.56
1:P:53[D]:SER:HB3	1:P:252[D]:GLN:NE2	2.19	0.56
1:E:53[A]:SER:HB3	1:E:252[A]:GLN:NE2	2.20	0.56
1:D:30[A]:ILE:HG22	1:D:46[A]:VAL:HG13	1.86	0.56
1:C:165[A]:THR:HG21	1:D:38[A]:PRO:HD2	1.88	0.56
1:E:53[C]:SER:HB3	1:E:252[C]:GLN:NE2	2.20	0.56
1:D:30[C]:ILE:HG22	1:D:46[C]:VAL:HG13	1.86	0.56
1:J:118[C]:ARG:HD2	1:J:122[C]:ASP:OD2	2.05	0.56
1:C:165[C]:THR:HG21	1:D:38[C]:PRO:HD2	1.88	0.56
1:E:53[B]:SER:HB3	1:E:252[B]:GLN:NE2	2.20	0.56
1:D:30[B]:ILE:HG22	1:D:46[B]:VAL:HG13	1.86	0.56
1:C:165[B]:THR:HG21	1:D:38[B]:PRO:HD2	1.88	0.56
1:K:250[B]:ILE:N	1:K:250[B]:ILE:HD12	2.21	0.56
1:K:190[D]:PHE:CE2	1:L:190[D]:PHE:HE2	2.22	0.56
1:K:47[D]:ALA:HB2	1:K:257[D]:HIS:HB3	1.88	0.56
1:H:30[D]:ILE:HG22	1:H:46[D]:VAL:HG13	1.87	0.56
1:H:30[A]:ILE:HG22	1:H:46[A]:VAL:HG13	1.87	0.56
1:H:30[C]:ILE:HG22	1:H:46[C]:VAL:HG13	1.87	0.56
1:I:190[B]:PHE:HE2	1:J:190[B]:PHE:CE2	2.24	0.56
1:H:30[B]:ILE:HG22	1:H:46[B]:VAL:HG13	1.87	0.56
1:I:190[D]:PHE:HE2	1:J:190[D]:PHE:CE2	2.24	0.56
1:E:165[D]:THR:HG21	1:F:38[D]:PRO:HD2	1.87	0.56
1:E:165[A]:THR:HG21	1:F:38[A]:PRO:HD2	1.87	0.56
1:I:190[C]:PHE:HE2	1:J:190[C]:PHE:HE2	1.53	0.56
1:E:165[C]:THR:HG21	1:F:38[C]:PRO:HD2	1.87	0.56
1:M:250[C]:ILE:N	1:M:250[C]:ILE:HD12	2.21	0.56
1:E:165[B]:THR:HG21	1:F:38[B]:PRO:HD2	1.87	0.56
1:O:250[B]:ILE:N	1:O:250[B]:ILE:HD12	2.21	0.56
1:N:219[B]:ASP:HB2	2:N:600[B]:UMP:O3'	2.06	0.56
1:O:190[B]:PHE:HE2	1:P:190[B]:PHE:HE2	1.51	0.56
1:L:109[D]:PHE:O	1:L:112[D]:LYS:HB3	2.06	0.56
1:K:50[A]:ALA:HB2	1:L:212[A]:LEU:HD12	1.88	0.56
1:L:250[C]:ILE:HD12	1:L:250[C]:ILE:N	2.21	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:250[C]:ILE:N	1:O:250[C]:ILE:HD12	2.21	0.56
1:I:53[A]:SER:HB3	1:I:252[A]:GLN:NE2	2.20	0.56
1:I:190[C]:PHE:HE2	1:J:190[C]:PHE:CE2	2.24	0.56
1:J:118[B]:ARG:HD2	1:J:122[B]:ASP:OD2	2.06	0.56
1:K:47[A]:ALA:HB2	1:K:257[A]:HIS:HB3	1.88	0.56
1:K:250[C]:ILE:HD12	1:K:250[C]:ILE:N	2.21	0.56
1:N:250[C]:ILE:HD12	1:N:250[C]:ILE:N	2.21	0.56
1:O:220[B]:LEU:HG	1:O:224[B]:VAL:HG21	1.88	0.56
1:K:134[D]:PHE:CZ	1:L:176[D]:PRO:HD2	2.42	0.55
1:O:250[D]:ILE:HD12	1:O:250[D]:ILE:N	2.21	0.55
1:K:190[C]:PHE:CE2	1:L:190[C]:PHE:CE2	2.94	0.55
1:O:220[D]:LEU:HG	1:O:224[D]:VAL:HG21	1.89	0.55
1:L:118[D]:ARG:HD2	1:L:122[D]:ASP:OD2	2.06	0.55
1:L:250[D]:ILE:HD12	1:L:250[D]:ILE:N	2.21	0.55
1:O:190[C]:PHE:HE2	1:P:190[C]:PHE:HE2	1.51	0.55
1:O:212[C]:LEU:HD12	1:P:50[C]:ALA:HB2	1.88	0.55
1:K:134[C]:PHE:CZ	1:L:176[C]:PRO:HD2	2.41	0.55
1:A:246[D]:PRO:HG2	4:A:790[D]:HOH:O	2.06	0.55
1:N:219[D]:ASP:HB2	2:N:600[D]:UMP:O3'	2.06	0.55
1:A:246[A]:PRO:HG2	4:A:790[A]:HOH:O	2.06	0.55
1:A:246[C]:PRO:HG2	4:A:790[C]:HOH:O	2.06	0.55
1:J:250[C]:ILE:N	1:J:250[C]:ILE:HD12	2.21	0.55
1:A:246[B]:PRO:HG2	4:A:790[B]:HOH:O	2.06	0.55
1:K:43[B]:THR:HG21	1:K:316[B]:SER:OG	2.07	0.55
1:I:50[D]:ALA:CB	1:J:212[D]:LEU:HD12	2.35	0.55
1:E:118[D]:ARG:HD3	4:E:1098[D]:HOH:O	2.06	0.55
1:E:118[A]:ARG:HD3	4:E:1098[A]:HOH:O	2.06	0.55
1:E:118[C]:ARG:HD3	4:E:1098[C]:HOH:O	2.06	0.55
1:K:134[B]:PHE:CZ	1:L:176[B]:PRO:HD2	2.42	0.55
1:E:118[B]:ARG:HD3	4:E:1098[B]:HOH:O	2.06	0.55
1:F:44[D]:GLY:C	1:F:260[D]:ARG:HG2	2.27	0.55
1:B:117[D]:HIS:HD2	4:B:928[D]:HOH:O	1.90	0.55
1:F:44[A]:GLY:C	1:F:260[A]:ARG:HG2	2.27	0.55
1:B:117[A]:HIS:HD2	4:B:928[A]:HOH:O	1.90	0.55
1:F:44[C]:GLY:C	1:F:260[C]:ARG:HG2	2.27	0.55
1:K:212[C]:LEU:HD12	1:L:50[C]:ALA:CB	2.37	0.55
1:L:109[C]:PHE:O	1:L:112[C]:LYS:HB3	2.06	0.55
1:B:117[C]:HIS:HD2	4:B:928[C]:HOH:O	1.90	0.55
1:F:44[B]:GLY:C	1:F:260[B]:ARG:HG2	2.27	0.55
1:K:212[B]:LEU:HD12	1:L:50[B]:ALA:CB	2.37	0.55
1:I:190[B]:PHE:CE2	1:J:190[B]:PHE:CE2	2.94	0.55
1:L:118[B]:ARG:HD2	1:L:122[B]:ASP:OD2	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:117[B]:HIS:HD2	4:B:928[B]:HOH:O	1.90	0.55
1:I:190[D]:PHE:CE2	1:J:190[D]:PHE:CE2	2.95	0.55
1:D:14[D]:SER:HB3	1:D:273[D]:GLU:OE1	2.06	0.55
1:D:14[A]:SER:HB3	1:D:273[A]:GLU:OE1	2.06	0.55
1:I:190[C]:PHE:CE2	1:J:190[C]:PHE:CE2	2.95	0.55
1:D:14[C]:SER:HB3	1:D:273[C]:GLU:OE1	2.06	0.55
1:I:212[B]:LEU:HD12	1:J:50[B]:ALA:HB2	1.88	0.55
1:M:250[B]:ILE:HD12	1:M:250[B]:ILE:N	2.22	0.55
1:N:250[B]:ILE:N	1:N:250[B]:ILE:HD12	2.21	0.55
1:P:250[B]:ILE:N	1:P:250[B]:ILE:HD12	2.21	0.55
1:D:14[B]:SER:HB3	1:D:273[B]:GLU:OE1	2.06	0.55
1:H:44[D]:GLY:C	1:H:260[D]:ARG:HG2	2.27	0.55
1:K:190[D]:PHE:CE2	1:L:190[D]:PHE:CE2	2.95	0.55
1:B:30[D]:ILE:HG22	1:B:46[D]:VAL:HG13	1.88	0.55
1:H:44[A]:GLY:C	1:H:260[A]:ARG:HG2	2.27	0.55
1:B:30[A]:ILE:HG22	1:B:46[A]:VAL:HG13	1.88	0.55
1:H:44[C]:GLY:C	1:H:260[C]:ARG:HG2	2.27	0.55
1:M:212[C]:LEU:HD12	1:N:50[C]:ALA:CB	2.37	0.55
1:I:70[C]:ARG:NH1	1:I:310[C]:LYS:HD3	2.22	0.55
1:B:30[C]:ILE:HG22	1:B:46[C]:VAL:HG13	1.88	0.55
1:H:44[B]:GLY:C	1:H:260[B]:ARG:HG2	2.27	0.55
1:B:30[B]:ILE:HG22	1:B:46[B]:VAL:HG13	1.88	0.55
1:K:212[D]:LEU:HD12	1:L:50[D]:ALA:CB	2.37	0.55
1:E:195[D]:VAL:O	1:F:37[D]:ARG:NH1	2.36	0.55
1:J:250[D]:ILE:N	1:J:250[D]:ILE:HD12	2.22	0.55
1:E:195[A]:VAL:O	1:F:37[A]:ARG:NH1	2.36	0.55
1:M:50[A]:ALA:HB2	1:N:212[A]:LEU:HD12	1.88	0.55
1:M:190[C]:PHE:CE2	1:N:190[C]:PHE:CE2	2.94	0.55
1:E:195[C]:VAL:O	1:F:37[C]:ARG:NH1	2.36	0.55
1:E:195[B]:VAL:O	1:F:37[B]:ARG:NH1	2.36	0.55
1:I:70[B]:ARG:NH1	1:I:310[B]:LYS:HD3	2.22	0.55
1:G:47[D]:ALA:HB2	1:G:257[D]:HIS:HB3	1.89	0.55
1:G:47[A]:ALA:HB2	1:G:257[A]:HIS:HB3	1.89	0.55
1:G:47[C]:ALA:HB2	1:G:257[C]:HIS:HB3	1.89	0.55
1:P:118[C]:ARG:HD2	1:P:122[C]:ASP:OD2	2.07	0.55
1:K:190[B]:PHE:CE2	1:L:190[B]:PHE:CE2	2.95	0.55
1:G:47[B]:ALA:HB2	1:G:257[B]:HIS:HB3	1.89	0.55
1:L:109[B]:PHE:O	1:L:112[B]:LYS:HB3	2.07	0.55
1:J:250[B]:ILE:HD12	1:J:250[B]:ILE:N	2.22	0.55
1:M:190[D]:PHE:CE2	1:N:190[D]:PHE:CE2	2.94	0.55
1:O:43[A]:THR:HG21	1:O:316[A]:SER:OG	2.07	0.55
1:I:50[C]:ALA:CB	1:J:212[C]:LEU:HD12	2.36	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:44[D]:GLY:C	1:D:260[D]:ARG:HG2	2.27	0.54
1:I:70[D]:ARG:NH1	1:I:310[D]:LYS:HD3	2.22	0.54
1:M:53[D]:SER:HB3	1:M:252[D]:GLN:NE2	2.21	0.54
1:M:250[D]:ILE:HD12	1:M:250[D]:ILE:N	2.22	0.54
1:D:44[A]:GLY:C	1:D:260[A]:ARG:HG2	2.27	0.54
1:P:53[A]:SER:HB3	1:P:252[A]:GLN:NE2	2.21	0.54
1:D:44[C]:GLY:C	1:D:260[C]:ARG:HG2	2.27	0.54
1:L:43[C]:THR:HG21	1:L:316[C]:SER:OG	2.07	0.54
1:N:43[C]:THR:HG21	1:N:316[C]:SER:OG	2.07	0.54
1:D:44[B]:GLY:C	1:D:260[B]:ARG:HG2	2.27	0.54
1:A:212[D]:LEU:HD12	1:B:50[D]:ALA:HB2	1.89	0.54
1:A:212[A]:LEU:HD12	1:B:50[A]:ALA:HB2	1.89	0.54
1:A:212[C]:LEU:HD12	1:B:50[C]:ALA:HB2	1.89	0.54
1:O:212[B]:LEU:HD12	1:P:50[B]:ALA:HB2	1.89	0.54
1:A:212[B]:LEU:HD12	1:B:50[B]:ALA:HB2	1.89	0.54
1:M:212[D]:LEU:HD12	1:N:50[D]:ALA:CB	2.38	0.54
1:E:30[D]:ILE:HG22	1:E:46[D]:VAL:HG13	1.89	0.54
1:E:30[A]:ILE:HG22	1:E:46[A]:VAL:HG13	1.89	0.54
1:N:219[A]:ASP:HB2	2:N:600[A]:UMP:O3'	2.07	0.54
1:E:30[C]:ILE:HG22	1:E:46[C]:VAL:HG13	1.89	0.54
1:E:30[B]:ILE:HG22	1:E:46[B]:VAL:HG13	1.89	0.54
1:M:53[B]:SER:HB3	1:M:252[B]:GLN:NE2	2.22	0.54
1:I:212[D]:LEU:HD12	1:J:50[D]:ALA:HB2	1.88	0.54
1:K:212[A]:LEU:HD12	1:L:50[A]:ALA:CB	2.38	0.54
1:I:212[C]:LEU:HD12	1:J:50[C]:ALA:HB2	1.88	0.54
1:P:118[B]:ARG:HD2	1:P:122[B]:ASP:OD2	2.07	0.54
1:A:30[D]:ILE:HG22	1:A:46[D]:VAL:HG13	1.89	0.54
1:A:30[A]:ILE:HG22	1:A:46[A]:VAL:HG13	1.89	0.54
1:J:43[C]:THR:HG21	1:J:316[C]:SER:OG	2.08	0.54
1:A:30[C]:ILE:HG22	1:A:46[C]:VAL:HG13	1.89	0.54
1:M:190[B]:PHE:CE2	1:N:190[B]:PHE:CE2	2.95	0.54
1:A:30[B]:ILE:HG22	1:A:46[B]:VAL:HG13	1.89	0.54
1:I:50[B]:ALA:CB	1:J:212[B]:LEU:HD12	2.37	0.54
1:K:43[D]:THR:HG21	1:K:316[D]:SER:OG	2.08	0.54
1:L:43[D]:THR:HG21	1:L:316[D]:SER:OG	2.08	0.54
1:P:109[C]:PHE:O	1:P:112[C]:LYS:HB3	2.08	0.54
1:P:250[C]:ILE:HD12	1:P:250[C]:ILE:N	2.22	0.54
1:P:109[D]:PHE:O	1:P:112[D]:LYS:HB3	2.08	0.54
1:J:118[D]:ARG:HD2	1:J:122[D]:ASP:OD2	2.08	0.54
1:N:250[D]:ILE:N	1:N:250[D]:ILE:HD12	2.22	0.54
1:G:165[D]:THR:HG21	1:H:38[D]:PRO:HD2	1.88	0.54
1:G:165[A]:THR:HG21	1:H:38[A]:PRO:HD2	1.88	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:165[C]:THR:HG21	1:H:38[C]:PRO:HD2	1.88	0.54
1:K:264[C]:GLU:HB2	1:K:265[C]:PRO:HD3	1.90	0.54
1:G:165[B]:THR:HG21	1:H:38[B]:PRO:HD2	1.88	0.54
1:O:212[D]:LEU:HD12	1:P:50[D]:ALA:HB2	1.90	0.54
1:K:43[A]:THR:HG21	1:K:316[A]:SER:OG	2.08	0.54
1:K:43[C]:THR:HG21	1:K:316[C]:SER:OG	2.08	0.54
1:M:264[B]:GLU:HB2	1:M:265[B]:PRO:HD3	1.90	0.54
1:C:30[D]:ILE:HG22	1:C:46[D]:VAL:HG13	1.89	0.53
1:A:165[D]:THR:HG21	1:B:38[D]:PRO:HD2	1.90	0.53
1:C:53[D]:SER:HB3	1:C:252[D]:GLN:NE2	2.23	0.53
1:N:79[D]:GLU:O	1:N:82[D]:TRP:HB3	2.09	0.53
1:M:212[A]:LEU:HD12	1:N:50[A]:ALA:CB	2.38	0.53
1:A:165[A]:THR:HG21	1:B:38[A]:PRO:HD2	1.90	0.53
1:C:30[A]:ILE:HG22	1:C:46[A]:VAL:HG13	1.89	0.53
1:C:53[A]:SER:HB3	1:C:252[A]:GLN:NE2	2.23	0.53
1:C:53[C]:SER:HB3	1:C:252[C]:GLN:NE2	2.23	0.53
1:A:165[C]:THR:HG21	1:B:38[C]:PRO:HD2	1.90	0.53
1:C:30[C]:ILE:HG22	1:C:46[C]:VAL:HG13	1.89	0.53
1:C:30[B]:ILE:HG22	1:C:46[B]:VAL:HG13	1.89	0.53
1:C:53[B]:SER:HB3	1:C:252[B]:GLN:NE2	2.23	0.53
1:A:165[B]:THR:HG21	1:B:38[B]:PRO:HD2	1.90	0.53
1:E:44[D]:GLY:C	1:E:260[D]:ARG:HG2	2.28	0.53
1:M:264[D]:GLU:HB2	1:M:265[D]:PRO:HD3	1.90	0.53
1:B:185[D]:PRO:HG3	4:B:908[D]:HOH:O	2.09	0.53
1:E:44[A]:GLY:C	1:E:260[A]:ARG:HG2	2.28	0.53
1:B:185[A]:PRO:HG3	4:B:908[A]:HOH:O	2.09	0.53
1:E:44[C]:GLY:C	1:E:260[C]:ARG:HG2	2.28	0.53
1:B:185[C]:PRO:HG3	4:B:908[C]:HOH:O	2.09	0.53
1:E:44[B]:GLY:C	1:E:260[B]:ARG:HG2	2.28	0.53
1:B:185[B]:PRO:HG3	4:B:908[B]:HOH:O	2.09	0.53
1:E:43[D]:THR:HG21	1:E:316[D]:SER:OG	2.08	0.53
1:I:220[D]:LEU:HG	1:I:224[D]:VAL:HG21	1.91	0.53
1:K:70[D]:ARG:NH1	1:K:310[D]:LYS:HD3	2.24	0.53
1:P:250[D]:ILE:HD12	1:P:250[D]:ILE:N	2.23	0.53
1:J:44[A]:GLY:C	1:J:260[A]:ARG:HG2	2.28	0.53
1:E:43[A]:THR:HG21	1:E:316[A]:SER:OG	2.08	0.53
1:E:43[C]:THR:HG21	1:E:316[C]:SER:OG	2.08	0.53
1:O:298[C]:GLU:H	1:O:298[C]:GLU:CD	2.11	0.53
1:E:43[B]:THR:HG21	1:E:316[B]:SER:OG	2.08	0.53
1:C:212[D]:LEU:HD12	1:D:50[D]:ALA:HB2	1.91	0.53
1:C:212[A]:LEU:HD12	1:D:50[A]:ALA:HB2	1.91	0.53
1:I:250[A]:ILE:N	1:I:250[A]:ILE:HD12	2.24	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:212[C]:LEU:HD12	1:D:50[C]:ALA:HB2	1.91	0.53
1:M:212[B]:LEU:HD12	1:N:50[B]:ALA:CB	2.39	0.53
1:C:212[B]:LEU:HD12	1:D:50[B]:ALA:HB2	1.91	0.53
1:O:298[B]:GLU:CD	1:O:298[B]:GLU:H	2.12	0.53
1:A:147[D]:GLY:CA	1:D:137[D]:GLU:OE1	2.56	0.53
1:I:50[A]:ALA:CB	1:J:212[A]:LEU:HD12	2.38	0.53
1:A:147[A]:GLY:CA	1:D:137[A]:GLU:OE1	2.56	0.53
1:A:147[C]:GLY:CA	1:D:137[C]:GLU:OE1	2.56	0.53
1:A:147[B]:GLY:CA	1:D:137[B]:GLU:OE1	2.56	0.53
1:L:43[B]:THR:HG21	1:L:316[B]:SER:OG	2.09	0.53
1:P:212[D]:LEU:HD23	1:P:212[D]:LEU:C	2.29	0.53
1:M:53[A]:SER:HB3	1:M:252[A]:GLN:NE2	2.23	0.53
1:K:70[C]:ARG:NH1	1:K:310[C]:LYS:HD3	2.24	0.53
1:P:109[B]:PHE:O	1:P:112[B]:LYS:HB3	2.09	0.53
1:G:43[D]:THR:HG21	1:G:316[D]:SER:OG	2.09	0.53
1:G:30[D]:ILE:HG22	1:G:46[D]:VAL:HG13	1.90	0.53
1:K:264[D]:GLU:HB2	1:K:265[D]:PRO:HD3	1.90	0.53
1:G:30[A]:ILE:HG22	1:G:46[A]:VAL:HG13	1.90	0.53
1:G:43[A]:THR:HG21	1:G:316[A]:SER:OG	2.09	0.53
1:G:43[C]:THR:HG21	1:G:316[C]:SER:OG	2.09	0.53
1:G:30[C]:ILE:HG22	1:G:46[C]:VAL:HG13	1.90	0.53
1:M:53[C]:SER:HB3	1:M:252[C]:GLN:NE2	2.23	0.53
1:G:43[B]:THR:HG21	1:G:316[B]:SER:OG	2.09	0.53
1:G:30[B]:ILE:HG22	1:G:46[B]:VAL:HG13	1.90	0.53
1:B:297[D]:VAL:HG23	4:B:980[D]:HOH:O	2.07	0.53
1:O:298[D]:GLU:H	1:O:298[D]:GLU:CD	2.12	0.53
1:B:297[A]:VAL:HG23	4:B:980[A]:HOH:O	2.07	0.53
1:N:250[A]:ILE:N	1:N:250[A]:ILE:HD12	2.23	0.53
1:P:43[A]:THR:HG21	1:P:316[A]:SER:OG	2.09	0.53
1:B:297[C]:VAL:HG23	4:B:980[C]:HOH:O	2.07	0.53
1:K:70[B]:ARG:NH1	1:K:310[B]:LYS:HD3	2.24	0.53
1:B:297[B]:VAL:HG23	4:B:980[B]:HOH:O	2.07	0.53
1:J:109[D]:PHE:O	1:J:112[D]:LYS:HB3	2.09	0.53
1:P:118[D]:ARG:HD2	1:P:122[D]:ASP:OD2	2.09	0.53
1:I:118[A]:ARG:HD2	1:I:122[A]:ASP:OD2	2.08	0.53
1:K:250[A]:ILE:HD12	1:K:250[A]:ILE:N	2.24	0.53
1:M:250[A]:ILE:N	1:M:250[A]:ILE:HD12	2.24	0.53
1:B:260[D]:ARG:NH1	4:B:851[D]:HOH:O	2.39	0.53
1:B:44[D]:GLY:C	1:B:260[D]:ARG:HG2	2.28	0.53
1:J:44[D]:GLY:C	1:J:260[D]:ARG:HG2	2.28	0.53
1:E:297[D]:VAL:HG23	4:E:682[D]:HOH:O	2.09	0.53
1:C:50[D]:ALA:HB2	1:D:212[D]:LEU:HD12	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:47[D]:ALA:HB2	1:H:257[D]:HIS:HB3	1.91	0.53
1:A:38[D]:PRO:HD2	1:B:165[D]:THR:HG21	1.91	0.53
1:B:44[A]:GLY:C	1:B:260[A]:ARG:HG2	2.28	0.53
1:B:260[A]:ARG:NH1	4:B:851[A]:HOH:O	2.39	0.53
1:E:297[A]:VAL:HG23	4:E:682[A]:HOH:O	2.09	0.53
1:P:212[A]:LEU:C	1:P:212[A]:LEU:HD23	2.30	0.53
1:C:50[A]:ALA:HB2	1:D:212[A]:LEU:HD12	1.91	0.53
1:H:47[A]:ALA:HB2	1:H:257[A]:HIS:HB3	1.91	0.53
1:A:38[A]:PRO:HD2	1:B:165[A]:THR:HG21	1.91	0.53
1:B:44[C]:GLY:C	1:B:260[C]:ARG:HG2	2.28	0.53
1:B:260[C]:ARG:NH1	4:B:851[C]:HOH:O	2.39	0.53
1:J:44[C]:GLY:C	1:J:260[C]:ARG:HG2	2.28	0.53
1:E:297[C]:VAL:HG23	4:E:682[C]:HOH:O	2.09	0.53
1:C:50[C]:ALA:HB2	1:D:212[C]:LEU:HD12	1.91	0.53
1:H:47[C]:ALA:HB2	1:H:257[C]:HIS:HB3	1.91	0.53
1:A:38[C]:PRO:HD2	1:B:165[C]:THR:HG21	1.91	0.53
1:J:30[C]:ILE:HG22	1:J:46[C]:VAL:HG13	1.89	0.53
1:K:38[C]:PRO:HD2	1:L:165[C]:THR:HG21	1.91	0.53
1:B:260[B]:ARG:NH1	4:B:851[B]:HOH:O	2.39	0.53
1:B:44[B]:GLY:C	1:B:260[B]:ARG:HG2	2.28	0.53
1:E:297[B]:VAL:HG23	4:E:682[B]:HOH:O	2.09	0.53
1:C:50[B]:ALA:HB2	1:D:212[B]:LEU:HD12	1.91	0.53
1:H:47[B]:ALA:HB2	1:H:257[B]:HIS:HB3	1.91	0.53
1:A:38[B]:PRO:HD2	1:B:165[B]:THR:HG21	1.91	0.53
1:H:199[D]:PRO:HB2	1:H:201[D]:ASP:OD1	2.09	0.52
1:H:199[A]:PRO:HB2	1:H:201[A]:ASP:OD1	2.09	0.52
1:L:250[A]:ILE:N	1:L:250[A]:ILE:HD12	2.24	0.52
1:H:199[C]:PRO:HB2	1:H:201[C]:ASP:OD1	2.09	0.52
1:I:264[C]:GLU:HB2	1:I:265[C]:PRO:HD3	1.90	0.52
1:H:199[B]:PRO:HB2	1:H:201[B]:ASP:OD1	2.09	0.52
1:J:44[B]:GLY:C	1:J:260[B]:ARG:HG2	2.28	0.52
1:I:220[B]:LEU:HG	1:I:224[B]:VAL:HG21	1.92	0.52
1:K:264[B]:GLU:HB2	1:K:265[B]:PRO:HD3	1.91	0.52
1:G:217[D]:SER:OG	1:H:167[D]:ARG:HD3	2.10	0.52
1:I:43[A]:THR:HG21	1:I:316[A]:SER:OG	2.09	0.52
1:G:217[A]:SER:OG	1:H:167[A]:ARG:HD3	2.10	0.52
1:K:134[A]:PHE:CZ	1:L:176[A]:PRO:HD2	2.45	0.52
1:O:298[A]:GLU:H	1:O:298[A]:GLU:CD	2.13	0.52
1:O:250[A]:ILE:N	1:O:250[A]:ILE:HD12	2.24	0.52
1:J:250[A]:ILE:HD12	1:J:250[A]:ILE:N	2.24	0.52
1:J:109[C]:PHE:O	1:J:112[C]:LYS:HB3	2.10	0.52
1:L:30[C]:ILE:HG22	1:L:46[C]:VAL:HG13	1.90	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:217[C]:SER:OG	1:H:167[C]:ARG:HD3	2.10	0.52
1:N:79[C]:GLU:O	1:N:82[C]:TRP:HB3	2.10	0.52
1:G:217[B]:SER:OG	1:H:167[B]:ARG:HD3	2.10	0.52
1:N:79[B]:GLU:O	1:N:82[B]:TRP:HB3	2.10	0.52
1:N:30[D]:ILE:HG22	1:N:46[D]:VAL:HG13	1.90	0.52
1:J:30[D]:ILE:HG22	1:J:46[D]:VAL:HG13	1.89	0.52
1:J:298[D]:GLU:CD	1:J:298[D]:GLU:H	2.12	0.52
1:O:212[A]:LEU:HD12	1:P:50[A]:ALA:HB2	1.91	0.52
1:M:264[C]:GLU:HB2	1:M:265[C]:PRO:HD3	1.91	0.52
1:N:30[B]:ILE:HG22	1:N:46[B]:VAL:HG13	1.90	0.52
1:J:298[B]:GLU:CD	1:J:298[B]:GLU:H	2.12	0.52
1:E:212[D]:LEU:HD23	1:E:212[D]:LEU:C	2.29	0.52
1:E:47[D]:ALA:HB2	1:E:257[D]:HIS:HB3	1.92	0.52
1:I:264[D]:GLU:HB2	1:I:265[D]:PRO:HD3	1.91	0.52
1:J:43[D]:THR:HG21	1:J:316[D]:SER:OG	2.10	0.52
1:E:38[D]:PRO:HD2	1:F:165[D]:THR:HG21	1.91	0.52
1:E:38[A]:PRO:HD2	1:F:165[A]:THR:HG21	1.91	0.52
1:E:212[A]:LEU:C	1:E:212[A]:LEU:HD23	2.29	0.52
1:N:30[A]:ILE:HG22	1:N:46[A]:VAL:HG13	1.90	0.52
1:E:47[A]:ALA:HB2	1:E:257[A]:HIS:HB3	1.92	0.52
1:E:38[C]:PRO:HD2	1:F:165[C]:THR:HG21	1.91	0.52
1:E:47[C]:ALA:HB2	1:E:257[C]:HIS:HB3	1.92	0.52
1:E:212[C]:LEU:C	1:E:212[C]:LEU:HD23	2.29	0.52
1:E:38[B]:PRO:HD2	1:F:165[B]:THR:HG21	1.91	0.52
1:L:30[B]:ILE:HG22	1:L:46[B]:VAL:HG13	1.90	0.52
1:E:212[B]:LEU:C	1:E:212[B]:LEU:HD23	2.29	0.52
1:E:47[B]:ALA:HB2	1:E:257[B]:HIS:HB3	1.92	0.52
1:A:44[D]:GLY:C	1:A:260[D]:ARG:HG2	2.29	0.52
1:A:44[A]:GLY:C	1:A:260[A]:ARG:HG2	2.29	0.52
1:A:44[C]:GLY:C	1:A:260[C]:ARG:HG2	2.29	0.52
1:O:43[C]:THR:HG21	1:O:316[C]:SER:OG	2.10	0.52
1:A:44[B]:GLY:C	1:A:260[B]:ARG:HG2	2.29	0.52
1:M:70[B]:ARG:NH1	1:M:310[B]:LYS:HD3	2.25	0.52
1:O:43[D]:THR:HG21	1:O:316[D]:SER:OG	2.10	0.52
1:J:43[B]:THR:HG21	1:J:316[B]:SER:OG	2.10	0.52
1:K:38[B]:PRO:HD2	1:L:165[B]:THR:HG21	1.91	0.52
1:E:212[D]:LEU:HD12	1:F:50[D]:ALA:HB2	1.92	0.52
1:C:298[D]:GLU:H	1:C:298[D]:GLU:CD	2.12	0.52
1:E:212[A]:LEU:HD12	1:F:50[A]:ALA:HB2	1.92	0.52
1:C:298[A]:GLU:H	1:C:298[A]:GLU:CD	2.12	0.52
1:E:212[C]:LEU:HD12	1:F:50[C]:ALA:HB2	1.92	0.52
1:C:298[C]:GLU:CD	1:C:298[C]:GLU:H	2.12	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:109[C]:PHE:O	1:I:112[C]:LYS:HB3	2.10	0.52
1:E:212[B]:LEU:HD12	1:F:50[B]:ALA:HB2	1.92	0.52
1:P:212[B]:LEU:C	1:P:212[B]:LEU:HD23	2.30	0.52
1:C:298[B]:GLU:H	1:C:298[B]:GLU:CD	2.12	0.52
1:I:30[D]:ILE:HG22	1:I:46[D]:VAL:HG13	1.91	0.52
1:E:176[D]:PRO:HD2	1:F:134[D]:PHE:CZ	2.44	0.52
1:K:298[D]:GLU:H	1:K:298[D]:GLU:CD	2.12	0.52
1:B:212[D]:LEU:C	1:B:212[D]:LEU:HD23	2.30	0.52
1:B:212[A]:LEU:HD23	1:B:212[A]:LEU:C	2.30	0.52
1:E:176[A]:PRO:HD2	1:F:134[A]:PHE:CZ	2.44	0.52
1:M:70[C]:ARG:NH1	1:M:310[C]:LYS:HD3	2.25	0.52
1:E:176[C]:PRO:HD2	1:F:134[C]:PHE:CZ	2.44	0.52
1:P:264[C]:GLU:HB2	1:P:265[C]:PRO:HD3	1.91	0.52
1:J:298[C]:GLU:CD	1:J:298[C]:GLU:H	2.12	0.52
1:B:212[C]:LEU:C	1:B:212[C]:LEU:HD23	2.30	0.52
1:I:264[B]:GLU:HB2	1:I:265[B]:PRO:HD3	1.91	0.52
1:E:176[B]:PRO:HD2	1:F:134[B]:PHE:CZ	2.44	0.52
1:K:298[B]:GLU:H	1:K:298[B]:GLU:CD	2.12	0.52
1:B:212[B]:LEU:HD23	1:B:212[B]:LEU:C	2.30	0.52
1:N:212[D]:LEU:C	1:N:212[D]:LEU:HD23	2.30	0.52
1:N:109[D]:PHE:O	1:N:112[D]:LYS:HB3	2.10	0.52
1:J:212[A]:LEU:C	1:J:212[A]:LEU:HD23	2.30	0.52
1:N:212[A]:LEU:C	1:N:212[A]:LEU:HD23	2.30	0.52
1:J:109[B]:PHE:O	1:J:112[B]:LYS:HB3	2.10	0.52
1:F:186[D]:PRO:HG3	4:F:800[D]:HOH:O	2.10	0.52
1:C:38[D]:PRO:HD2	1:D:165[D]:THR:HG21	1.92	0.52
1:P:298[D]:GLU:H	1:P:298[D]:GLU:CD	2.12	0.52
1:L:298[D]:GLU:H	1:L:298[D]:GLU:CD	2.12	0.52
1:I:212[A]:LEU:HD12	1:J:50[A]:ALA:HB2	1.92	0.52
1:F:186[A]:PRO:HG3	4:F:800[A]:HOH:O	2.10	0.52
1:M:38[A]:PRO:HD2	1:N:165[A]:THR:HG21	1.92	0.52
1:P:30[A]:ILE:HG22	1:P:46[A]:VAL:HG13	1.91	0.52
1:C:38[A]:PRO:HD2	1:D:165[A]:THR:HG21	1.92	0.52
1:F:186[C]:PRO:HG3	4:F:800[C]:HOH:O	2.10	0.52
1:L:118[C]:ARG:HD2	1:L:122[C]:ASP:OD2	2.09	0.52
1:C:38[C]:PRO:HD2	1:D:165[C]:THR:HG21	1.92	0.52
1:N:109[C]:PHE:O	1:N:112[C]:LYS:HB3	2.10	0.52
1:L:298[C]:GLU:CD	1:L:298[C]:GLU:H	2.12	0.52
1:J:212[B]:LEU:C	1:J:212[B]:LEU:HD23	2.30	0.52
1:F:186[B]:PRO:HG3	4:F:800[B]:HOH:O	2.10	0.52
1:I:30[B]:ILE:HG22	1:I:46[B]:VAL:HG13	1.91	0.52
1:C:38[B]:PRO:HD2	1:D:165[B]:THR:HG21	1.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:298[B]:GLU:H	1:L:298[B]:GLU:CD	2.13	0.52
1:I:109[B]:PHE:O	1:I:112[B]:LYS:HB3	2.10	0.52
1:K:38[D]:PRO:HD2	1:L:165[D]:THR:HG21	1.92	0.51
1:A:47[D]:ALA:HB2	1:A:257[D]:HIS:HB3	1.92	0.51
1:H:298[D]:GLU:H	1:H:298[D]:GLU:CD	2.13	0.51
1:A:47[A]:ALA:HB2	1:A:257[A]:HIS:HB3	1.92	0.51
1:L:109[A]:PHE:O	1:L:112[A]:LYS:HB3	2.10	0.51
1:H:298[A]:GLU:H	1:H:298[A]:GLU:CD	2.13	0.51
1:J:30[A]:ILE:HG22	1:J:46[A]:VAL:HG13	1.90	0.51
1:A:47[C]:ALA:HB2	1:A:257[C]:HIS:HB3	1.92	0.51
1:P:212[C]:LEU:C	1:P:212[C]:LEU:HD23	2.30	0.51
1:J:264[C]:GLU:HB2	1:J:265[C]:PRO:HD3	1.91	0.51
1:K:298[C]:GLU:CD	1:K:298[C]:GLU:H	2.12	0.51
1:H:298[C]:GLU:CD	1:H:298[C]:GLU:H	2.13	0.51
1:N:212[B]:LEU:HD23	1:N:212[B]:LEU:C	2.31	0.51
1:A:47[B]:ALA:HB2	1:A:257[B]:HIS:HB3	1.92	0.51
1:H:298[B]:GLU:H	1:H:298[B]:GLU:CD	2.13	0.51
1:M:70[D]:ARG:NH1	1:M:310[D]:LYS:HD3	2.25	0.51
1:D:47[D]:ALA:HB2	1:D:257[D]:HIS:HB3	1.92	0.51
1:H:100[D]:ILE:HB	3:H:2701[D]:CB3:C13	2.40	0.51
1:H:287[A]:GLU:CG	1:J:146[A]:LYS:NZ	2.63	0.51
1:I:30[A]:ILE:HG22	1:I:46[A]:VAL:HG13	1.91	0.51
1:D:47[A]:ALA:HB2	1:D:257[A]:HIS:HB3	1.92	0.51
1:H:100[A]:ILE:HB	3:H:2701[A]:CB3:C13	2.40	0.51
1:O:264[C]:GLU:HB2	1:O:265[C]:PRO:HD3	1.92	0.51
1:D:47[C]:ALA:HB2	1:D:257[C]:HIS:HB3	1.92	0.51
1:H:100[C]:ILE:HB	3:H:2701[C]:CB3:C13	2.40	0.51
1:P:298[C]:GLU:CD	1:P:298[C]:GLU:H	2.12	0.51
1:K:109[B]:PHE:O	1:K:112[B]:LYS:HB3	2.10	0.51
1:H:100[B]:ILE:HB	3:H:2701[B]:CB3:C13	2.40	0.51
1:J:264[B]:GLU:HB2	1:J:265[B]:PRO:HD3	1.91	0.51
1:D:47[B]:ALA:HB2	1:D:257[B]:HIS:HB3	1.92	0.51
1:C:190[D]:PHE:HZ	1:D:214[D]:TYR:CD2	2.28	0.51
1:C:190[A]:PHE:HZ	1:D:214[A]:TYR:CD2	2.28	0.51
1:M:264[A]:GLU:HB2	1:M:265[A]:PRO:HD3	1.92	0.51
1:J:298[A]:GLU:H	1:J:298[A]:GLU:CD	2.12	0.51
1:L:298[A]:GLU:CD	1:L:298[A]:GLU:H	2.12	0.51
1:K:264[A]:GLU:HB2	1:K:265[A]:PRO:HD3	1.92	0.51
1:C:190[C]:PHE:HZ	1:D:214[C]:TYR:CD2	2.28	0.51
1:J:212[C]:LEU:C	1:J:212[C]:LEU:HD23	2.30	0.51
1:I:220[C]:LEU:HG	1:I:224[C]:VAL:HG21	1.93	0.51
1:I:30[C]:ILE:HG22	1:I:46[C]:VAL:HG13	1.91	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:220[C]:LEU:HG	1:L:224[C]:VAL:HG21	1.91	0.51
1:C:190[B]:PHE:HZ	1:D:214[B]:TYR:CD2	2.28	0.51
1:M:50[B]:ALA:CB	1:N:212[B]:LEU:HD12	2.40	0.51
1:K:79[B]:GLU:O	1:K:82[B]:TRP:HB3	2.10	0.51
1:O:264[B]:GLU:HB2	1:O:265[B]:PRO:HD3	1.92	0.51
1:P:298[B]:GLU:H	1:P:298[B]:GLU:CD	2.12	0.51
1:M:50[D]:ALA:CB	1:N:212[D]:LEU:HD12	2.40	0.51
1:O:212[D]:LEU:C	1:O:212[D]:LEU:HD23	2.30	0.51
1:J:264[D]:GLU:HB2	1:J:265[D]:PRO:HD3	1.91	0.51
1:F:298[D]:GLU:CD	1:F:298[D]:GLU:H	2.13	0.51
1:K:30[A]:ILE:HG22	1:K:46[A]:VAL:HG13	1.91	0.51
1:F:298[A]:GLU:CD	1:F:298[A]:GLU:H	2.13	0.51
1:P:250[A]:ILE:N	1:P:250[A]:ILE:HD12	2.25	0.51
1:K:38[A]:PRO:HD2	1:L:165[A]:THR:HG21	1.92	0.51
1:F:298[C]:GLU:CD	1:F:298[C]:GLU:H	2.13	0.51
1:O:43[B]:THR:HG21	1:O:316[B]:SER:OG	2.11	0.51
1:F:298[B]:GLU:CD	1:F:298[B]:GLU:H	2.13	0.51
1:E:246[D]:PRO:HG2	4:E:639[D]:HOH:O	2.10	0.51
1:E:246[A]:PRO:HG2	4:E:639[A]:HOH:O	2.10	0.51
1:E:246[C]:PRO:HG2	4:E:639[C]:HOH:O	2.10	0.51
1:N:298[C]:GLU:H	1:N:298[C]:GLU:CD	2.12	0.51
1:N:109[B]:PHE:O	1:N:112[B]:LYS:HB3	2.11	0.51
1:E:246[B]:PRO:HG2	4:E:639[B]:HOH:O	2.10	0.51
1:J:30[B]:ILE:HG22	1:J:46[B]:VAL:HG13	1.90	0.51
1:O:79[D]:GLU:O	1:O:82[D]:TRP:HB3	2.11	0.51
1:I:43[D]:THR:HG21	1:I:316[D]:SER:OG	2.11	0.51
1:H:186[D]:PRO:HG3	4:H:1050[D]:HOH:O	2.10	0.51
1:O:264[D]:GLU:HB2	1:O:265[D]:PRO:HD3	1.92	0.51
1:I:298[D]:GLU:H	1:I:298[D]:GLU:CD	2.13	0.51
1:I:70[A]:ARG:NH1	1:I:310[A]:LYS:HD3	2.26	0.51
1:L:30[A]:ILE:HG22	1:L:46[A]:VAL:HG13	1.90	0.51
1:H:186[A]:PRO:HG3	4:H:1050[A]:HOH:O	2.10	0.51
1:M:50[C]:ALA:CB	1:N:212[C]:LEU:HD12	2.41	0.51
1:H:186[C]:PRO:HG3	4:H:1050[C]:HOH:O	2.10	0.51
1:K:30[B]:ILE:HG22	1:K:46[B]:VAL:HG13	1.92	0.51
1:H:186[B]:PRO:HG3	4:H:1050[B]:HOH:O	2.10	0.51
1:L:30[D]:ILE:HG22	1:L:46[D]:VAL:HG13	1.91	0.51
1:P:30[D]:ILE:HG22	1:P:46[D]:VAL:HG13	1.91	0.51
1:N:298[D]:GLU:H	1:N:298[D]:GLU:CD	2.13	0.51
1:I:109[D]:PHE:O	1:I:112[D]:LYS:HB3	2.11	0.51
1:O:220[A]:LEU:HG	1:O:224[A]:VAL:HG21	1.93	0.51
1:K:118[A]:ARG:HD2	1:K:122[A]:ASP:OD2	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:118[A]:ARG:HD2	1:N:122[A]:ASP:OD2	2.10	0.51
1:K:298[A]:GLU:H	1:K:298[A]:GLU:CD	2.13	0.51
1:N:298[A]:GLU:H	1:N:298[A]:GLU:CD	2.13	0.51
1:K:109[D]:PHE:O	1:K:112[D]:LYS:HB3	2.11	0.51
1:F:201[D]:ASP:O	1:F:202[D]:SER:HB3	2.11	0.51
1:F:201[A]:ASP:O	1:F:202[A]:SER:HB3	2.11	0.51
1:M:118[A]:ARG:HD2	1:M:122[A]:ASP:OD2	2.10	0.51
1:P:298[A]:GLU:H	1:P:298[A]:GLU:CD	2.13	0.51
1:N:212[C]:LEU:C	1:N:212[C]:LEU:HD23	2.31	0.51
1:F:201[C]:ASP:O	1:F:202[C]:SER:HB3	2.11	0.51
1:P:30[C]:ILE:HG22	1:P:46[C]:VAL:HG13	1.92	0.51
1:F:201[B]:ASP:O	1:F:202[B]:SER:HB3	2.11	0.51
1:H:201[D]:ASP:O	1:H:203[D]:PRO:HD2	2.11	0.51
1:A:190[D]:PHE:HZ	1:B:214[D]:TYR:CD2	2.29	0.51
1:G:212[D]:LEU:HD23	1:G:212[D]:LEU:C	2.30	0.51
1:K:30[D]:ILE:HG22	1:K:46[D]:VAL:HG13	1.92	0.51
1:G:298[D]:GLU:H	1:G:298[D]:GLU:CD	2.14	0.51
1:H:201[A]:ASP:O	1:H:203[A]:PRO:HD2	2.11	0.51
1:A:190[A]:PHE:HZ	1:B:214[A]:TYR:CD2	2.29	0.51
1:L:212[A]:LEU:HD23	1:L:212[A]:LEU:C	2.31	0.51
1:M:298[A]:GLU:CD	1:M:298[A]:GLU:H	2.14	0.51
1:G:298[A]:GLU:CD	1:G:298[A]:GLU:H	2.14	0.51
1:G:212[A]:LEU:C	1:G:212[A]:LEU:HD23	2.30	0.51
1:H:201[C]:ASP:O	1:H:203[C]:PRO:HD2	2.11	0.51
1:A:190[C]:PHE:HZ	1:B:214[C]:TYR:CD2	2.29	0.51
1:O:212[C]:LEU:HD12	1:P:50[C]:ALA:CB	2.41	0.51
1:G:212[C]:LEU:HD23	1:G:212[C]:LEU:C	2.30	0.51
1:G:298[C]:GLU:H	1:G:298[C]:GLU:CD	2.14	0.51
1:H:201[B]:ASP:O	1:H:203[B]:PRO:HD2	2.11	0.51
1:A:190[B]:PHE:HZ	1:B:214[B]:TYR:CD2	2.29	0.51
1:G:212[B]:LEU:HD23	1:G:212[B]:LEU:C	2.30	0.51
1:G:298[B]:GLU:CD	1:G:298[B]:GLU:H	2.14	0.51
1:J:212[D]:LEU:HD23	1:J:212[D]:LEU:C	2.31	0.51
1:E:298[D]:GLU:CD	1:E:298[D]:GLU:H	2.14	0.51
1:P:44[A]:GLY:C	1:P:260[A]:ARG:HG2	2.31	0.51
1:O:264[A]:GLU:HB2	1:O:265[A]:PRO:HD3	1.93	0.51
1:E:298[A]:GLU:CD	1:E:298[A]:GLU:H	2.14	0.51
1:K:109[C]:PHE:O	1:K:112[C]:LYS:HB3	2.11	0.51
1:E:298[C]:GLU:CD	1:E:298[C]:GLU:H	2.14	0.51
1:I:298[B]:GLU:CD	1:I:298[B]:GLU:H	2.13	0.51
1:E:298[B]:GLU:H	1:E:298[B]:GLU:CD	2.14	0.51
1:P:79[D]:GLU:O	1:P:82[D]:TRP:HB3	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:212[A]:LEU:C	1:M:212[A]:LEU:HD23	2.31	0.50
1:P:109[A]:PHE:O	1:P:112[A]:LYS:HB3	2.11	0.50
1:J:109[A]:PHE:O	1:J:112[A]:LYS:HB3	2.11	0.50
1:I:264[A]:GLU:HB2	1:I:265[A]:PRO:HD3	1.92	0.50
1:I:43[B]:THR:HG21	1:I:316[B]:SER:OG	2.11	0.50
1:P:264[D]:GLU:HB2	1:P:265[D]:PRO:HD3	1.92	0.50
1:M:30[A]:ILE:HG22	1:M:46[A]:VAL:HG13	1.92	0.50
1:I:298[A]:GLU:CD	1:I:298[A]:GLU:H	2.13	0.50
1:P:264[B]:GLU:HB2	1:P:265[B]:PRO:HD3	1.92	0.50
1:N:298[B]:GLU:H	1:N:298[B]:GLU:CD	2.13	0.50
1:B:47[D]:ALA:HB2	1:B:257[D]:HIS:HB3	1.93	0.50
1:G:53[D]:SER:HB3	1:G:252[D]:GLN:NE2	2.26	0.50
1:B:298[D]:GLU:CD	1:B:298[D]:GLU:H	2.13	0.50
1:O:44[A]:GLY:C	1:O:260[A]:ARG:HG2	2.32	0.50
1:O:212[A]:LEU:HD23	1:O:212[A]:LEU:C	2.31	0.50
1:M:165[A]:THR:HG21	1:N:38[A]:PRO:HD2	1.93	0.50
1:G:53[A]:SER:HB3	1:G:252[A]:GLN:NE2	2.26	0.50
1:M:43[A]:THR:HG21	1:M:316[A]:SER:OG	2.11	0.50
1:B:47[A]:ALA:HB2	1:B:257[A]:HIS:HB3	1.93	0.50
1:B:298[A]:GLU:CD	1:B:298[A]:GLU:H	2.13	0.50
1:G:53[C]:SER:HB3	1:G:252[C]:GLN:NE2	2.26	0.50
1:P:79[C]:GLU:O	1:P:82[C]:TRP:HB3	2.12	0.50
1:M:38[C]:PRO:HD2	1:N:165[C]:THR:HG21	1.93	0.50
1:N:30[C]:ILE:HG22	1:N:46[C]:VAL:HG13	1.92	0.50
1:B:47[C]:ALA:HB2	1:B:257[C]:HIS:HB3	1.93	0.50
1:B:298[C]:GLU:H	1:B:298[C]:GLU:CD	2.13	0.50
1:B:47[B]:ALA:HB2	1:B:257[B]:HIS:HB3	1.93	0.50
1:G:53[B]:SER:HB3	1:G:252[B]:GLN:NE2	2.26	0.50
1:B:298[B]:GLU:H	1:B:298[B]:GLU:CD	2.13	0.50
1:C:212[D]:LEU:HD12	1:D:50[D]:ALA:CB	2.42	0.50
1:M:38[D]:PRO:HD2	1:N:165[D]:THR:HG21	1.93	0.50
1:O:109[D]:PHE:O	1:O:112[D]:LYS:HB3	2.11	0.50
1:K:212[A]:LEU:C	1:K:212[A]:LEU:HD23	2.31	0.50
1:C:212[A]:LEU:HD12	1:D:50[A]:ALA:CB	2.42	0.50
1:L:118[A]:ARG:HD2	1:L:122[A]:ASP:OD2	2.11	0.50
1:C:212[C]:LEU:HD12	1:D:50[C]:ALA:CB	2.42	0.50
1:P:220[C]:LEU:HG	1:P:224[C]:VAL:HG21	1.92	0.50
1:O:212[B]:LEU:HD12	1:P:50[B]:ALA:CB	2.42	0.50
1:C:212[B]:LEU:HD12	1:D:50[B]:ALA:CB	2.42	0.50
1:K:165[B]:THR:HG21	1:L:38[B]:PRO:HD2	1.94	0.50
1:P:30[B]:ILE:HG22	1:P:46[B]:VAL:HG13	1.92	0.50
1:P:220[D]:LEU:HG	1:P:224[D]:VAL:HG21	1.92	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:79[D]:GLU:O	1:M:82[D]:TRP:HB3	2.12	0.50
1:C:13[D]:ARG:HD3	1:C:21[D]:TYR:CZ	2.46	0.50
1:C:13[A]:ARG:HD3	1:C:21[A]:TYR:CZ	2.46	0.50
1:O:30[A]:ILE:HG22	1:O:46[A]:VAL:HG13	1.93	0.50
1:I:109[A]:PHE:O	1:I:112[A]:LYS:HB3	2.12	0.50
1:K:189[C]:MET:O	1:K:190[C]:PHE:HB3	2.11	0.50
1:C:13[C]:ARG:HD3	1:C:21[C]:TYR:CZ	2.46	0.50
1:C:13[B]:ARG:HD3	1:C:21[B]:TYR:CZ	2.46	0.50
1:M:298[D]:GLU:CD	1:M:298[D]:GLU:H	2.15	0.50
1:H:201[C]:ASP:CB	1:N:273[C]:GLU:HB3	2.42	0.50
1:I:43[C]:THR:HG21	1:I:316[C]:SER:OG	2.11	0.50
1:O:109[C]:PHE:O	1:O:112[C]:LYS:HB3	2.11	0.50
1:O:212[B]:LEU:C	1:O:212[B]:LEU:HD23	2.31	0.50
1:O:109[B]:PHE:O	1:O:112[B]:LYS:HB3	2.11	0.50
1:N:264[D]:GLU:HB2	1:N:265[D]:PRO:HD3	1.92	0.50
1:A:134[D]:PHE:CZ	1:B:176[D]:PRO:HD2	2.47	0.50
1:N:44[A]:GLY:C	1:N:260[A]:ARG:HG2	2.32	0.50
1:J:118[A]:ARG:HD2	1:J:122[A]:ASP:OD2	2.12	0.50
1:A:134[A]:PHE:CZ	1:B:176[A]:PRO:HD2	2.47	0.50
1:I:298[C]:GLU:H	1:I:298[C]:GLU:CD	2.14	0.50
1:A:134[C]:PHE:CZ	1:B:176[C]:PRO:HD2	2.47	0.50
1:L:212[B]:LEU:C	1:L:212[B]:LEU:HD23	2.31	0.50
1:A:134[B]:PHE:CZ	1:B:176[B]:PRO:HD2	2.47	0.50
1:L:212[D]:LEU:C	1:L:212[D]:LEU:HD23	2.31	0.50
1:C:47[D]:ALA:HB2	1:C:257[D]:HIS:HB3	1.94	0.50
1:I:38[D]:PRO:HD2	1:J:165[D]:THR:HG21	1.94	0.50
1:K:165[A]:THR:HG21	1:L:38[A]:PRO:HD2	1.94	0.50
1:C:47[A]:ALA:HB2	1:C:257[A]:HIS:HB3	1.94	0.50
1:N:109[A]:PHE:O	1:N:112[A]:LYS:HB3	2.12	0.50
1:P:264[A]:GLU:HB2	1:P:265[A]:PRO:HD3	1.93	0.50
1:K:30[C]:ILE:HG22	1:K:46[C]:VAL:HG13	1.93	0.50
1:C:47[C]:ALA:HB2	1:C:257[C]:HIS:HB3	1.94	0.50
1:I:79[B]:GLU:O	1:I:82[B]:TRP:HB3	2.12	0.50
1:C:47[B]:ALA:HB2	1:C:257[B]:HIS:HB3	1.94	0.50
1:M:109[B]:PHE:O	1:M:112[B]:LYS:HB3	2.12	0.50
1:O:212[D]:LEU:HD12	1:P:50[D]:ALA:CB	2.42	0.50
1:A:100[D]:ILE:HB	3:A:2351[D]:CB3:C13	2.42	0.50
1:I:212[A]:LEU:C	1:I:212[A]:LEU:HD23	2.31	0.50
1:O:118[A]:ARG:HD2	1:O:122[A]:ASP:OD2	2.11	0.50
1:A:100[A]:ILE:HB	3:A:2351[A]:CB3:C13	2.42	0.50
1:K:165[C]:THR:HG21	1:L:38[C]:PRO:HD2	1.94	0.50
1:A:100[C]:ILE:HB	3:A:2351[C]:CB3:C13	2.42	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:38[B]:PRO:HD2	1:N:165[B]:THR:HG21	1.93	0.50
1:L:79[B]:GLU:O	1:L:82[B]:TRP:HB3	2.11	0.50
1:L:220[B]:LEU:HG	1:L:224[B]:VAL:HG21	1.92	0.50
1:A:100[B]:ILE:HB	3:A:2351[B]:CB3:C13	2.42	0.50
1:L:264[D]:GLU:HB2	1:L:265[D]:PRO:HD3	1.93	0.49
1:K:109[A]:PHE:O	1:K:112[A]:LYS:HB3	2.12	0.49
1:L:212[C]:LEU:C	1:L:212[C]:LEU:HD23	2.32	0.49
1:I:79[C]:GLU:O	1:I:82[C]:TRP:HB3	2.12	0.49
1:K:79[C]:GLU:O	1:K:82[C]:TRP:HB3	2.12	0.49
1:O:79[B]:GLU:O	1:O:82[B]:TRP:HB3	2.12	0.49
1:M:79[B]:GLU:O	1:M:82[B]:TRP:HB3	2.12	0.49
1:H:212[D]:LEU:HD23	1:H:213[D]:MET:N	2.26	0.49
1:O:44[D]:GLY:C	1:O:260[D]:ARG:HG2	2.32	0.49
1:A:53[D]:SER:HB3	1:A:252[D]:GLN:NE2	2.26	0.49
1:K:79[D]:GLU:O	1:K:82[D]:TRP:HB3	2.12	0.49
1:H:212[A]:LEU:HD23	1:H:213[A]:MET:N	2.26	0.49
1:A:53[A]:SER:HB3	1:A:252[A]:GLN:NE2	2.26	0.49
1:O:44[C]:GLY:C	1:O:260[C]:ARG:HG2	2.32	0.49
1:H:212[C]:LEU:HD23	1:H:213[C]:MET:N	2.26	0.49
1:M:165[C]:THR:HG21	1:N:38[C]:PRO:HD2	1.94	0.49
1:A:53[C]:SER:HB3	1:A:252[C]:GLN:NE2	2.26	0.49
1:M:212[B]:LEU:HD23	1:M:212[B]:LEU:C	2.32	0.49
1:H:212[B]:LEU:HD23	1:H:213[B]:MET:N	2.26	0.49
1:A:53[B]:SER:HB3	1:A:252[B]:GLN:NE2	2.26	0.49
1:M:298[B]:GLU:H	1:M:298[B]:GLU:CD	2.15	0.49
1:I:79[D]:GLU:O	1:I:82[D]:TRP:HB3	2.12	0.49
1:M:187[D]:CYS:HB2	2:M:550[D]:UMP:C4	2.47	0.49
1:L:79[D]:GLU:O	1:L:82[D]:TRP:HB3	2.12	0.49
1:A:298[D]:GLU:CD	1:A:298[D]:GLU:H	2.14	0.49
1:A:298[A]:GLU:H	1:A:298[A]:GLU:CD	2.14	0.49
1:N:264[C]:GLU:HB2	1:N:265[C]:PRO:HD3	1.93	0.49
1:M:79[C]:GLU:O	1:M:82[C]:TRP:HB3	2.13	0.49
1:M:43[C]:THR:HG21	1:M:316[C]:SER:OG	2.12	0.49
1:A:298[C]:GLU:H	1:A:298[C]:GLU:CD	2.14	0.49
1:O:44[B]:GLY:C	1:O:260[B]:ARG:HG2	2.32	0.49
1:P:220[B]:LEU:HG	1:P:224[B]:VAL:HG21	1.93	0.49
1:A:298[B]:GLU:H	1:A:298[B]:GLU:CD	2.14	0.49
1:K:212[D]:LEU:HD23	1:K:212[D]:LEU:C	2.32	0.49
1:K:189[D]:MET:O	1:K:190[D]:PHE:HB3	2.11	0.49
1:P:70[D]:ARG:NH1	1:P:310[D]:LYS:HD3	2.27	0.49
1:B:137[D]:GLU:OE1	1:C:147[D]:GLY:CA	2.60	0.49
1:M:109[D]:PHE:O	1:M:112[D]:LYS:HB3	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:220[D]:LEU:HG	1:L:224[D]:VAL:HG21	1.93	0.49
1:B:137[A]:GLU:OE1	1:C:147[A]:GLY:CA	2.60	0.49
1:N:264[A]:GLU:HB2	1:N:265[A]:PRO:HD3	1.93	0.49
1:O:79[C]:GLU:O	1:O:82[C]:TRP:HB3	2.13	0.49
1:B:137[C]:GLU:OE1	1:C:147[C]:GLY:CA	2.60	0.49
1:K:189[B]:MET:O	1:K:190[B]:PHE:HB3	2.12	0.49
1:B:137[B]:GLU:OE1	1:C:147[B]:GLY:CA	2.60	0.49
1:M:30[D]:ILE:HG22	1:M:46[D]:VAL:HG13	1.93	0.49
1:O:212[A]:LEU:HD12	1:P:50[A]:ALA:CB	2.42	0.49
1:M:70[A]:ARG:NH1	1:M:310[A]:LYS:HD3	2.28	0.49
1:P:44[C]:GLY:C	1:P:260[C]:ARG:HG2	2.33	0.49
1:M:298[C]:GLU:H	1:M:298[C]:GLU:CD	2.16	0.49
1:N:264[B]:GLU:HB2	1:N:265[B]:PRO:HD3	1.93	0.49
1:A:212[D]:LEU:HD12	1:B:50[D]:ALA:CB	2.43	0.49
1:G:176[D]:PRO:HD2	1:H:134[D]:PHE:CZ	2.47	0.49
1:G:264[D]:GLU:HB2	1:G:265[D]:PRO:HD3	1.95	0.49
1:G:38[D]:PRO:HD2	1:H:165[D]:THR:HG21	1.94	0.49
1:A:212[A]:LEU:HD12	1:B:50[A]:ALA:CB	2.43	0.49
1:G:176[A]:PRO:HD2	1:H:134[A]:PHE:CZ	2.47	0.49
1:G:264[A]:GLU:HB2	1:G:265[A]:PRO:HD3	1.95	0.49
1:G:38[A]:PRO:HD2	1:H:165[A]:THR:HG21	1.94	0.49
1:J:264[A]:GLU:HB2	1:J:265[A]:PRO:HD3	1.93	0.49
1:M:212[C]:LEU:C	1:M:212[C]:LEU:HD23	2.32	0.49
1:A:212[C]:LEU:HD12	1:B:50[C]:ALA:CB	2.43	0.49
1:I:212[C]:LEU:C	1:I:212[C]:LEU:HD23	2.32	0.49
1:G:176[C]:PRO:HD2	1:H:134[C]:PHE:CZ	2.47	0.49
1:P:70[C]:ARG:NH1	1:P:310[C]:LYS:HD3	2.27	0.49
1:G:264[C]:GLU:HB2	1:G:265[C]:PRO:HD3	1.95	0.49
1:G:38[C]:PRO:HD2	1:H:165[C]:THR:HG21	1.94	0.49
1:N:44[B]:GLY:C	1:N:260[B]:ARG:HG2	2.33	0.49
1:P:44[B]:GLY:C	1:P:260[B]:ARG:HG2	2.33	0.49
1:K:50[B]:ALA:CB	1:L:212[B]:LEU:HD12	2.42	0.49
1:I:212[B]:LEU:HD23	1:I:212[B]:LEU:C	2.32	0.49
1:A:212[B]:LEU:HD12	1:B:50[B]:ALA:CB	2.43	0.49
1:G:176[B]:PRO:HD2	1:H:134[B]:PHE:CZ	2.47	0.49
1:G:264[B]:GLU:HB2	1:G:265[B]:PRO:HD3	1.95	0.49
1:G:38[B]:PRO:HD2	1:H:165[B]:THR:HG21	1.94	0.49
1:M:187[B]:CYS:HB2	2:M:550[B]:UMP:C4	2.47	0.49
1:G:44[D]:GLY:C	1:G:260[D]:ARG:HG2	2.32	0.49
1:F:269[D]:GLN:HB2	1:F:311[D]:ILE:HD13	1.95	0.49
1:P:44[D]:GLY:C	1:P:260[D]:ARG:HG2	2.33	0.49
1:D:201[D]:ASP:O	1:D:202[D]:SER:HB3	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:44[A]:GLY:C	1:G:260[A]:ARG:HG2	2.32	0.49
1:F:269[A]:GLN:HB2	1:F:311[A]:ILE:HD13	1.95	0.49
1:D:201[A]:ASP:O	1:D:202[A]:SER:HB3	2.12	0.49
1:I:38[A]:PRO:HD2	1:J:165[A]:THR:HG21	1.95	0.49
1:N:79[A]:GLU:O	1:N:82[A]:TRP:HB3	2.13	0.49
1:G:44[C]:GLY:C	1:G:260[C]:ARG:HG2	2.32	0.49
1:F:269[C]:GLN:HB2	1:F:311[C]:ILE:HD13	1.95	0.49
1:D:201[C]:ASP:O	1:D:202[C]:SER:HB3	2.12	0.49
1:M:109[C]:PHE:O	1:M:112[C]:LYS:HB3	2.12	0.49
1:G:44[B]:GLY:C	1:G:260[B]:ARG:HG2	2.32	0.49
1:F:269[B]:GLN:HB2	1:F:311[B]:ILE:HD13	1.95	0.49
1:D:201[B]:ASP:O	1:D:202[B]:SER:HB3	2.12	0.49
1:C:190[D]:PHE:HA	4:C:1021[D]:HOH:O	2.12	0.49
1:N:44[D]:GLY:C	1:N:260[D]:ARG:HG2	2.33	0.49
1:F:264[D]:GLU:HB2	1:F:265[D]:PRO:HD3	1.94	0.49
1:C:190[A]:PHE:HA	4:C:1021[A]:HOH:O	2.12	0.49
1:F:264[A]:GLU:HB2	1:F:265[A]:PRO:HD3	1.94	0.49
1:H:202[C]:SER:CB	1:N:275[C]:ARG:HG3	2.36	0.49
1:C:190[C]:PHE:HA	4:C:1021[C]:HOH:O	2.12	0.49
1:N:44[C]:GLY:C	1:N:260[C]:ARG:HG2	2.33	0.49
1:L:264[C]:GLU:HB2	1:L:265[C]:PRO:HD3	1.94	0.49
1:F:264[C]:GLU:HB2	1:F:265[C]:PRO:HD3	1.94	0.49
1:M:30[C]:ILE:HG22	1:M:46[C]:VAL:HG13	1.94	0.49
1:M:187[C]:CYS:HB2	2:M:550[C]:UMP:C4	2.47	0.49
1:C:190[B]:PHE:HA	4:C:1021[B]:HOH:O	2.12	0.49
1:F:264[B]:GLU:HB2	1:F:265[B]:PRO:HD3	1.94	0.49
1:M:212[D]:LEU:HD23	1:M:212[D]:LEU:C	2.32	0.49
1:E:134[D]:PHE:CZ	1:F:176[D]:PRO:HD2	2.48	0.49
1:C:297[D]:VAL:HG23	4:C:629[D]:HOH:O	2.12	0.49
1:E:134[A]:PHE:CZ	1:F:176[A]:PRO:HD2	2.48	0.49
1:C:297[A]:VAL:HG23	4:C:629[A]:HOH:O	2.12	0.49
1:K:212[C]:LEU:HD23	1:K:212[C]:LEU:C	2.33	0.49
1:E:134[C]:PHE:CZ	1:F:176[C]:PRO:HD2	2.48	0.49
1:C:297[C]:VAL:HG23	4:C:629[C]:HOH:O	2.12	0.49
1:N:73[C]:LEU:HD21	1:N:302[C]:VAL:HG21	1.95	0.49
1:L:264[B]:GLU:HB2	1:L:265[B]:PRO:HD3	1.94	0.49
1:E:134[B]:PHE:CZ	1:F:176[B]:PRO:HD2	2.48	0.49
1:C:297[B]:VAL:HG23	4:C:629[B]:HOH:O	2.12	0.49
1:C:44[D]:GLY:C	1:C:260[D]:ARG:HG2	2.32	0.49
1:C:212[D]:LEU:C	1:C:212[D]:LEU:HD23	2.33	0.49
1:K:165[D]:THR:HG21	1:L:38[D]:PRO:HD2	1.95	0.49
1:H:287[A]:GLU:HG2	1:J:146[A]:LYS:HZ1	1.74	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:44[A]:GLY:C	1:C:260[A]:ARG:HG2	2.32	0.49
1:C:212[A]:LEU:HD23	1:C:212[A]:LEU:C	2.33	0.49
1:I:220[A]:LEU:HG	1:I:224[A]:VAL:HG21	1.95	0.49
1:C:44[C]:GLY:C	1:C:260[C]:ARG:HG2	2.32	0.49
1:C:212[C]:LEU:HD23	1:C:212[C]:LEU:C	2.33	0.49
1:C:44[B]:GLY:C	1:C:260[B]:ARG:HG2	2.32	0.49
1:C:212[B]:LEU:C	1:C:212[B]:LEU:HD23	2.33	0.49
1:P:79[B]:GLU:O	1:P:82[B]:TRP:HB3	2.13	0.49
1:H:269[D]:GLN:HB2	1:H:311[D]:ILE:HD13	1.96	0.48
1:A:212[D]:LEU:HD23	1:A:212[D]:LEU:C	2.33	0.48
1:H:269[A]:GLN:HB2	1:H:311[A]:ILE:HD13	1.96	0.48
1:A:212[A]:LEU:HD23	1:A:212[A]:LEU:C	2.33	0.48
1:L:264[A]:GLU:HB2	1:L:265[A]:PRO:HD3	1.94	0.48
1:M:187[A]:CYS:HB2	2:M:550[A]:UMP:C4	2.48	0.48
1:K:74[A]:ARG:NH2	1:N:70[A]:ARG:HD3	2.28	0.48
1:O:109[A]:PHE:O	1:O:112[A]:LYS:HB3	2.13	0.48
1:H:269[C]:GLN:HB2	1:H:311[C]:ILE:HD13	1.96	0.48
1:A:212[C]:LEU:HD23	1:A:212[C]:LEU:C	2.33	0.48
1:P:43[C]:THR:HG21	1:P:316[C]:SER:OG	2.13	0.48
1:H:269[B]:GLN:HB2	1:H:311[B]:ILE:HD13	1.96	0.48
1:K:212[B]:LEU:C	1:K:212[B]:LEU:HD23	2.33	0.48
1:A:212[B]:LEU:HD23	1:A:212[B]:LEU:C	2.33	0.48
1:F:212[D]:LEU:HD23	1:F:213[D]:MET:N	2.27	0.48
1:I:212[D]:LEU:C	1:I:212[D]:LEU:HD23	2.33	0.48
1:M:165[D]:THR:HG21	1:N:38[D]:PRO:HD2	1.95	0.48
1:L:44[A]:GLY:C	1:L:260[A]:ARG:HG2	2.32	0.48
1:F:212[A]:LEU:HD23	1:F:213[A]:MET:N	2.27	0.48
1:F:212[C]:LEU:HD23	1:F:213[C]:MET:N	2.27	0.48
1:L:79[C]:GLU:O	1:L:82[C]:TRP:HB3	2.13	0.48
1:F:212[B]:LEU:HD23	1:F:213[B]:MET:N	2.27	0.48
1:K:50[D]:ALA:CB	1:L:212[D]:LEU:HD12	2.43	0.48
1:O:50[D]:ALA:HB2	1:P:212[D]:LEU:HD12	1.95	0.48
1:P:118[A]:ARG:HD2	1:P:122[A]:ASP:OD2	2.13	0.48
1:P:70[B]:ARG:NH1	1:P:310[B]:LYS:HD3	2.28	0.48
1:I:38[B]:PRO:HD2	1:J:165[B]:THR:HG21	1.95	0.48
1:A:176[D]:PRO:HD2	1:B:134[D]:PHE:CZ	2.48	0.48
1:A:176[A]:PRO:HD2	1:B:134[A]:PHE:CZ	2.48	0.48
1:M:109[A]:PHE:O	1:M:112[A]:LYS:HB3	2.13	0.48
1:A:176[C]:PRO:HD2	1:B:134[C]:PHE:CZ	2.48	0.48
1:J:220[C]:LEU:HG	1:J:224[C]:VAL:HG21	1.94	0.48
1:A:176[B]:PRO:HD2	1:B:134[B]:PHE:CZ	2.48	0.48
1:O:53[D]:SER:HB3	1:O:252[D]:GLN:HE21	1.77	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:38[C]:PRO:HD2	1:J:165[C]:THR:HG21	1.95	0.48
1:M:220[B]:LEU:HG	1:M:224[B]:VAL:HG21	1.96	0.48
1:M:30[B]:ILE:HG22	1:M:46[B]:VAL:HG13	1.94	0.48
1:K:70[A]:ARG:NH1	1:K:310[A]:LYS:HD3	2.29	0.48
1:N:53[B]:SER:HB3	1:N:252[B]:GLN:NE2	2.28	0.48
1:D:269[D]:GLN:HB2	1:D:311[D]:ILE:HD13	1.95	0.48
1:C:176[D]:PRO:HD2	1:D:134[D]:PHE:CZ	2.48	0.48
1:D:269[A]:GLN:HB2	1:D:311[A]:ILE:HD13	1.95	0.48
1:C:176[A]:PRO:HD2	1:D:134[A]:PHE:CZ	2.48	0.48
1:O:53[C]:SER:HB3	1:O:252[C]:GLN:HE21	1.77	0.48
1:D:269[C]:GLN:HB2	1:D:311[C]:ILE:HD13	1.95	0.48
1:C:176[C]:PRO:HD2	1:D:134[C]:PHE:CZ	2.48	0.48
1:D:269[B]:GLN:HB2	1:D:311[B]:ILE:HD13	1.95	0.48
1:C:176[B]:PRO:HD2	1:D:134[B]:PHE:CZ	2.48	0.48
1:M:165[B]:THR:HG21	1:N:38[B]:PRO:HD2	1.96	0.48
1:M:43[D]:THR:HG21	1:M:316[D]:SER:OG	2.13	0.48
1:D:298[D]:GLU:H	1:D:298[D]:GLU:CD	2.16	0.48
1:O:30[D]:ILE:HG22	1:O:46[D]:VAL:HG13	1.95	0.48
1:F:47[D]:ALA:HB2	1:F:257[D]:HIS:HB3	1.96	0.48
1:N:53[A]:SER:HB3	1:N:252[A]:GLN:NE2	2.28	0.48
1:F:47[A]:ALA:HB2	1:F:257[A]:HIS:HB3	1.96	0.48
1:D:298[A]:GLU:CD	1:D:298[A]:GLU:H	2.16	0.48
1:K:50[C]:ALA:CB	1:L:212[C]:LEU:HD12	2.43	0.48
1:D:298[C]:GLU:CD	1:D:298[C]:GLU:H	2.16	0.48
1:F:47[C]:ALA:HB2	1:F:257[C]:HIS:HB3	1.96	0.48
1:D:298[B]:GLU:H	1:D:298[B]:GLU:CD	2.16	0.48
1:F:47[B]:ALA:HB2	1:F:257[B]:HIS:HB3	1.96	0.48
1:K:190[A]:PHE:HZ	1:L:214[A]:TYR:CD2	2.31	0.48
1:O:212[C]:LEU:HD23	1:O:212[C]:LEU:C	2.33	0.48
1:N:220[C]:LEU:HG	1:N:224[C]:VAL:HG21	1.95	0.48
1:B:212[D]:LEU:HD23	1:B:213[D]:MET:N	2.29	0.48
1:D:100[D]:ILE:HB	3:D:2501[D]:CB3:C13	2.43	0.48
1:B:212[A]:LEU:HD23	1:B:213[A]:MET:N	2.29	0.48
1:D:100[A]:ILE:HB	3:D:2501[A]:CB3:C13	2.43	0.48
1:J:137[A]:GLU:OE1	1:K:147[A]:GLY:CA	2.62	0.48
1:B:212[C]:LEU:HD23	1:B:213[C]:MET:N	2.29	0.48
1:D:100[C]:ILE:HB	3:D:2501[C]:CB3:C13	2.43	0.48
1:O:46[C]:VAL:HG13	1:O:46[C]:VAL:O	2.13	0.48
1:B:212[B]:LEU:HD23	1:B:213[B]:MET:N	2.29	0.48
1:D:100[B]:ILE:HB	3:D:2501[B]:CB3:C13	2.43	0.48
1:O:30[B]:ILE:HG22	1:O:46[B]:VAL:HG13	1.95	0.48
1:G:269[D]:GLN:HB2	1:G:311[D]:ILE:HD13	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:53[D]:SER:HB3	1:D:252[D]:GLN:NE2	2.29	0.47
1:M:220[D]:LEU:HG	1:M:224[D]:VAL:HG21	1.96	0.47
1:E:264[D]:GLU:HB2	1:E:265[D]:PRO:HD3	1.96	0.47
1:N:220[D]:LEU:HG	1:N:224[D]:VAL:HG21	1.95	0.47
1:G:269[A]:GLN:HB2	1:G:311[A]:ILE:HD13	1.97	0.47
1:D:53[A]:SER:HB3	1:D:252[A]:GLN:NE2	2.29	0.47
1:M:79[A]:GLU:O	1:M:82[A]:TRP:HB3	2.14	0.47
1:E:264[A]:GLU:HB2	1:E:265[A]:PRO:HD3	1.96	0.47
1:G:269[C]:GLN:HB2	1:G:311[C]:ILE:HD13	1.97	0.47
1:O:70[C]:ARG:NH1	1:O:310[C]:LYS:HD3	2.29	0.47
1:D:53[C]:SER:HB3	1:D:252[C]:GLN:NE2	2.29	0.47
1:E:264[C]:GLU:HB2	1:E:265[C]:PRO:HD3	1.96	0.47
1:G:269[B]:GLN:HB2	1:G:311[B]:ILE:HD13	1.97	0.47
1:O:50[B]:ALA:HB2	1:P:212[B]:LEU:HD12	1.96	0.47
1:P:43[B]:THR:HG21	1:P:316[B]:SER:OG	2.14	0.47
1:D:53[B]:SER:HB3	1:D:252[B]:GLN:NE2	2.29	0.47
1:E:264[B]:GLU:HB2	1:E:265[B]:PRO:HD3	1.96	0.47
1:N:220[B]:LEU:HG	1:N:224[B]:VAL:HG21	1.95	0.47
1:E:269[D]:GLN:HB2	1:E:311[D]:ILE:HD13	1.97	0.47
1:E:186[D]:PRO:HG3	4:E:1092[D]:HOH:O	2.14	0.47
1:P:43[D]:THR:HG21	1:P:316[D]:SER:OG	2.14	0.47
1:B:53[D]:SER:HB3	1:B:252[D]:GLN:NE2	2.29	0.47
1:E:269[A]:GLN:HB2	1:E:311[A]:ILE:HD13	1.97	0.47
1:E:186[A]:PRO:HG3	4:E:1092[A]:HOH:O	2.14	0.47
1:P:79[A]:GLU:O	1:P:82[A]:TRP:HB3	2.15	0.47
1:B:53[A]:SER:HB3	1:B:252[A]:GLN:NE2	2.29	0.47
1:E:269[C]:GLN:HB2	1:E:311[C]:ILE:HD13	1.97	0.47
1:J:46[C]:VAL:HG13	1:J:46[C]:VAL:O	2.14	0.47
1:O:30[C]:ILE:HG22	1:O:46[C]:VAL:HG13	1.96	0.47
1:E:186[C]:PRO:HG3	4:E:1092[C]:HOH:O	2.14	0.47
1:B:53[C]:SER:HB3	1:B:252[C]:GLN:NE2	2.29	0.47
1:O:53[B]:SER:HB3	1:O:252[B]:GLN:HE21	1.77	0.47
1:E:269[B]:GLN:HB2	1:E:311[B]:ILE:HD13	1.97	0.47
1:I:212[B]:LEU:HD12	1:J:50[B]:ALA:CB	2.44	0.47
1:M:43[B]:THR:HG21	1:M:316[B]:SER:OG	2.14	0.47
1:B:53[B]:SER:HB3	1:B:252[B]:GLN:NE2	2.29	0.47
1:E:186[B]:PRO:HG3	4:E:1092[B]:HOH:O	2.14	0.47
1:J:46[D]:VAL:O	1:J:46[D]:VAL:HG13	2.15	0.47
1:N:53[D]:SER:HB3	1:N:252[D]:GLN:NE2	2.29	0.47
1:L:53[C]:SER:HB3	1:L:252[C]:GLN:HE21	1.79	0.47
1:L:44[C]:GLY:C	1:L:260[C]:ARG:HG2	2.33	0.47
1:H:264[D]:GLU:HB2	1:H:265[D]:PRO:HD3	1.95	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:147[A]:GLY:CA	1:L:137[A]:GLU:OE1	2.62	0.47
1:H:264[A]:GLU:HB2	1:H:265[A]:PRO:HD3	1.95	0.47
1:H:264[C]:GLU:HB2	1:H:265[C]:PRO:HD3	1.95	0.47
1:H:264[B]:GLU:HB2	1:H:265[B]:PRO:HD3	1.95	0.47
1:N:73[B]:LEU:HD21	1:N:302[B]:VAL:HG21	1.96	0.47
1:C:50[D]:ALA:CB	1:D:212[D]:LEU:HD12	2.45	0.47
1:C:134[D]:PHE:CZ	1:D:176[D]:PRO:HD2	2.50	0.47
1:B:264[D]:GLU:HB2	1:B:265[D]:PRO:HD3	1.95	0.47
1:M:50[A]:ALA:CB	1:N:212[A]:LEU:HD12	2.44	0.47
1:C:50[A]:ALA:CB	1:D:212[A]:LEU:HD12	2.45	0.47
1:B:264[A]:GLU:HB2	1:B:265[A]:PRO:HD3	1.95	0.47
1:C:134[A]:PHE:CZ	1:D:176[A]:PRO:HD2	2.50	0.47
1:C:50[C]:ALA:CB	1:D:212[C]:LEU:HD12	2.45	0.47
1:C:134[C]:PHE:CZ	1:D:176[C]:PRO:HD2	2.50	0.47
1:B:264[C]:GLU:HB2	1:B:265[C]:PRO:HD3	1.95	0.47
1:L:44[B]:GLY:C	1:L:260[B]:ARG:HG2	2.34	0.47
1:C:50[B]:ALA:CB	1:D:212[B]:LEU:HD12	2.45	0.47
1:C:134[B]:PHE:CZ	1:D:176[B]:PRO:HD2	2.50	0.47
1:B:264[B]:GLU:HB2	1:B:265[B]:PRO:HD3	1.95	0.47
1:L:44[D]:GLY:C	1:L:260[D]:ARG:HG2	2.34	0.47
1:J:220[D]:LEU:HG	1:J:224[D]:VAL:HG21	1.95	0.47
1:I:79[A]:GLU:O	1:I:82[A]:TRP:HB3	2.14	0.47
1:N:269[B]:GLN:HB2	1:N:311[B]:ILE:HD13	1.97	0.47
1:L:53[B]:SER:HB3	1:L:252[B]:GLN:HE21	1.80	0.47
1:J:220[B]:LEU:HG	1:J:224[B]:VAL:HG21	1.95	0.47
1:E:212[D]:LEU:HD12	1:F:50[D]:ALA:CB	2.45	0.47
1:C:74[D]:ARG:HH21	1:F:70[D]:ARG:HD2	1.79	0.47
1:G:118[D]:ARG:HD3	1:G:122[D]:ASP:OD2	2.14	0.47
1:M:44[A]:GLY:C	1:M:260[A]:ARG:HG2	2.35	0.47
1:K:44[A]:GLY:C	1:K:260[A]:ARG:HG2	2.34	0.47
1:E:212[A]:LEU:HD12	1:F:50[A]:ALA:CB	2.45	0.47
1:G:118[A]:ARG:HD3	1:G:122[A]:ASP:OD2	2.14	0.47
1:C:74[A]:ARG:HH21	1:F:70[A]:ARG:HD2	1.79	0.47
1:E:212[C]:LEU:HD12	1:F:50[C]:ALA:CB	2.45	0.47
1:C:74[C]:ARG:HH21	1:F:70[C]:ARG:HD2	1.79	0.47
1:G:118[C]:ARG:HD3	1:G:122[C]:ASP:OD2	2.14	0.47
1:K:190[B]:PHE:HZ	1:L:214[B]:TYR:CD2	2.32	0.47
1:E:212[B]:LEU:HD12	1:F:50[B]:ALA:CB	2.45	0.47
1:C:74[B]:ARG:HH21	1:F:70[B]:ARG:HD2	1.79	0.47
1:G:118[B]:ARG:HD3	1:G:122[B]:ASP:OD2	2.14	0.47
1:G:190[D]:PHE:HZ	1:H:214[D]:TYR:CD2	2.33	0.47
1:E:190[D]:PHE:HZ	1:F:214[D]:TYR:CD2	2.33	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:70[D]:ARG:NH1	1:O:310[D]:LYS:HD3	2.30	0.47
1:G:190[A]:PHE:HZ	1:H:214[A]:TYR:CD2	2.33	0.47
1:E:190[A]:PHE:HZ	1:F:214[A]:TYR:CD2	2.33	0.47
1:G:190[C]:PHE:HZ	1:H:214[C]:TYR:CD2	2.33	0.47
1:E:190[C]:PHE:HZ	1:F:214[C]:TYR:CD2	2.33	0.47
1:M:220[C]:LEU:HG	1:M:224[C]:VAL:HG21	1.97	0.47
1:M:134[C]:PHE:CZ	1:N:176[C]:PRO:HD2	2.50	0.47
1:K:220[C]:LEU:HG	1:K:224[C]:VAL:HG21	1.97	0.47
1:G:190[B]:PHE:HZ	1:H:214[B]:TYR:CD2	2.33	0.47
1:E:190[B]:PHE:HZ	1:F:214[B]:TYR:CD2	2.33	0.47
1:F:24[D]:LEU:HD11	1:F:68[D]:THR:HG21	1.97	0.47
1:K:50[A]:ALA:CB	1:L:212[A]:LEU:HD12	2.44	0.47
1:O:79[A]:GLU:O	1:O:82[A]:TRP:HB3	2.15	0.47
1:K:79[A]:GLU:O	1:K:82[A]:TRP:HB3	2.15	0.47
1:F:24[A]:LEU:HD11	1:F:68[A]:THR:HG21	1.97	0.47
1:O:189[C]:MET:O	1:O:190[C]:PHE:HB3	2.14	0.47
1:F:24[C]:LEU:HD11	1:F:68[C]:THR:HG21	1.97	0.47
1:F:24[B]:LEU:HD11	1:F:68[B]:THR:HG21	1.97	0.47
1:C:269[D]:GLN:HB2	1:C:311[D]:ILE:HD13	1.97	0.47
1:L:26[D]:LEU:O	1:L:30[D]:ILE:HG13	2.15	0.47
1:O:46[D]:VAL:O	1:O:46[D]:VAL:HG13	2.14	0.47
1:K:220[D]:LEU:HG	1:K:224[D]:VAL:HG21	1.97	0.47
1:C:269[A]:GLN:HB2	1:C:311[A]:ILE:HD13	1.97	0.47
1:I:219[A]:ASP:HB2	2:I:350[A]:UMP:O3'	2.14	0.47
1:C:269[C]:GLN:HB2	1:C:311[C]:ILE:HD13	1.97	0.47
1:C:269[B]:GLN:HB2	1:C:311[B]:ILE:HD13	1.97	0.47
1:D:212[D]:LEU:HD23	1:D:212[D]:LEU:C	2.35	0.46
1:D:212[A]:LEU:HD23	1:D:212[A]:LEU:C	2.35	0.46
1:K:190[C]:PHE:HZ	1:L:214[C]:TYR:CD2	2.33	0.46
1:D:212[C]:LEU:HD23	1:D:212[C]:LEU:C	2.35	0.46
1:N:53[C]:SER:HB3	1:N:252[C]:GLN:NE2	2.29	0.46
1:D:212[B]:LEU:C	1:D:212[B]:LEU:HD23	2.35	0.46
1:M:134[B]:PHE:CZ	1:N:176[B]:PRO:HD2	2.51	0.46
1:O:189[D]:MET:O	1:O:190[D]:PHE:HB3	2.14	0.46
1:L:53[D]:SER:HB3	1:L:252[D]:GLN:HE21	1.80	0.46
1:I:212[D]:LEU:HD12	1:J:50[D]:ALA:CB	2.46	0.46
1:A:264[D]:GLU:HB2	1:A:265[D]:PRO:HD3	1.96	0.46
1:A:250[D]:ILE:N	1:A:250[D]:ILE:HD12	2.30	0.46
1:N:73[D]:LEU:HD21	1:N:302[D]:VAL:HG21	1.97	0.46
1:A:264[A]:GLU:HB2	1:A:265[A]:PRO:HD3	1.96	0.46
1:A:250[A]:ILE:N	1:A:250[A]:ILE:HD12	2.30	0.46
1:I:212[C]:LEU:HD12	1:J:50[C]:ALA:CB	2.46	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:50[C]:ALA:HB2	1:P:212[C]:LEU:HD12	1.97	0.46
1:A:264[C]:GLU:HB2	1:A:265[C]:PRO:HD3	1.96	0.46
1:A:250[C]:ILE:HD12	1:A:250[C]:ILE:N	2.30	0.46
1:O:189[B]:MET:O	1:O:190[B]:PHE:HB3	2.15	0.46
1:K:44[B]:GLY:C	1:K:260[B]:ARG:HG2	2.35	0.46
1:A:264[B]:GLU:HB2	1:A:265[B]:PRO:HD3	1.96	0.46
1:A:250[B]:ILE:HD12	1:A:250[B]:ILE:N	2.30	0.46
1:E:50[D]:ALA:HB2	1:F:212[D]:LEU:HD12	1.98	0.46
1:G:217[D]:SER:HG	1:H:167[D]:ARG:HD3	1.80	0.46
1:A:201[D]:ASP:O	1:A:202[D]:SER:HB3	2.16	0.46
1:N:269[A]:GLN:HB2	1:N:311[A]:ILE:HD13	1.98	0.46
1:E:50[A]:ALA:HB2	1:F:212[A]:LEU:HD12	1.98	0.46
1:G:217[A]:SER:HG	1:H:167[A]:ARG:HD3	1.80	0.46
1:A:201[A]:ASP:O	1:A:202[A]:SER:HB3	2.16	0.46
1:E:50[C]:ALA:HB2	1:F:212[C]:LEU:HD12	1.98	0.46
1:J:189[C]:MET:O	1:J:190[C]:PHE:HB3	2.15	0.46
1:G:217[C]:SER:HG	1:H:167[C]:ARG:HD3	1.80	0.46
1:N:26[C]:LEU:O	1:N:30[C]:ILE:HG13	2.15	0.46
1:A:201[C]:ASP:O	1:A:202[C]:SER:HB3	2.16	0.46
1:E:50[B]:ALA:HB2	1:F:212[B]:LEU:HD12	1.98	0.46
1:G:217[B]:SER:HG	1:H:167[B]:ARG:HD3	1.80	0.46
1:J:46[B]:VAL:O	1:J:46[B]:VAL:HG13	2.16	0.46
1:O:70[B]:ARG:NH1	1:O:310[B]:LYS:HD3	2.30	0.46
1:A:201[B]:ASP:O	1:A:202[B]:SER:HB3	2.16	0.46
1:N:269[D]:GLN:HB2	1:N:311[D]:ILE:HD13	1.98	0.46
1:M:134[A]:PHE:CZ	1:N:176[A]:PRO:HD2	2.51	0.46
1:L:79[A]:GLU:O	1:L:82[A]:TRP:HB3	2.15	0.46
1:M:220[A]:LEU:HG	1:M:224[A]:VAL:HG21	1.98	0.46
1:O:46[B]:VAL:HG13	1:O:46[B]:VAL:O	2.14	0.46
1:I:134[B]:PHE:CZ	1:J:176[B]:PRO:HD2	2.51	0.46
1:A:269[D]:GLN:HB2	1:A:311[D]:ILE:HD13	1.97	0.46
1:C:100[D]:ILE:HB	3:C:2451[D]:CB3:C13	2.45	0.46
1:M:134[D]:PHE:CZ	1:N:176[D]:PRO:HD2	2.51	0.46
1:I:134[D]:PHE:CZ	1:J:176[D]:PRO:HD2	2.51	0.46
1:A:269[A]:GLN:HB2	1:A:311[A]:ILE:HD13	1.97	0.46
1:C:100[A]:ILE:HB	3:C:2451[A]:CB3:C13	2.45	0.46
1:L:220[A]:LEU:HG	1:L:224[A]:VAL:HG21	1.96	0.46
1:A:269[C]:GLN:HB2	1:A:311[C]:ILE:HD13	1.97	0.46
1:J:79[C]:GLU:O	1:J:82[C]:TRP:HB3	2.15	0.46
1:C:100[C]:ILE:HB	3:C:2451[C]:CB3:C13	2.45	0.46
1:A:269[B]:GLN:HB2	1:A:311[B]:ILE:HD13	1.97	0.46
1:C:100[B]:ILE:HB	3:C:2451[B]:CB3:C13	2.45	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:269[C]:GLN:HB2	1:N:311[C]:ILE:HD13	1.98	0.46
1:K:44[C]:GLY:C	1:K:260[C]:ARG:HG2	2.35	0.46
1:M:44[D]:GLY:C	1:M:260[D]:ARG:HG2	2.36	0.46
1:K:44[D]:GLY:C	1:K:260[D]:ARG:HG2	2.35	0.46
1:F:250[D]:ILE:HD12	1:F:250[D]:ILE:N	2.30	0.46
1:P:220[A]:LEU:HG	1:P:224[A]:VAL:HG21	1.96	0.46
1:F:250[A]:ILE:N	1:F:250[A]:ILE:HD12	2.30	0.46
1:F:250[C]:ILE:HD12	1:F:250[C]:ILE:N	2.30	0.46
1:M:157[C]:ILE:HD13	1:M:238[C]:ILE:HG23	1.98	0.46
1:J:189[B]:MET:O	1:J:190[B]:PHE:HB3	2.16	0.46
1:I:219[B]:ASP:HB2	2:I:350[B]:UMP:O3'	2.14	0.46
1:F:250[B]:ILE:HD12	1:F:250[B]:ILE:N	2.30	0.46
1:J:220[A]:LEU:HG	1:J:224[A]:VAL:HG21	1.97	0.46
1:M:44[C]:GLY:C	1:M:260[C]:ARG:HG2	2.36	0.46
1:L:70[C]:ARG:NH1	1:L:310[C]:LYS:HD3	2.31	0.46
1:N:26[B]:LEU:O	1:N:30[B]:ILE:HG13	2.16	0.46
1:I:46[D]:VAL:HG13	1:I:46[D]:VAL:O	2.16	0.46
1:O:73[D]:LEU:HD21	1:O:302[D]:VAL:HG21	1.98	0.46
1:M:176[A]:PRO:HD2	1:N:134[A]:PHE:CZ	2.50	0.46
1:I:134[C]:PHE:CZ	1:J:176[C]:PRO:HD2	2.51	0.46
1:M:157[B]:ILE:HD13	1:M:238[B]:ILE:HG23	1.98	0.46
1:J:79[B]:GLU:O	1:J:82[B]:TRP:HB3	2.15	0.46
1:J:79[D]:GLU:O	1:J:82[D]:TRP:HB3	2.16	0.46
1:J:79[A]:GLU:O	1:J:82[A]:TRP:HB3	2.16	0.46
1:N:70[C]:ARG:NH1	1:N:310[C]:LYS:HD3	2.30	0.46
1:M:44[B]:GLY:C	1:M:260[B]:ARG:HG2	2.36	0.46
1:J:26[B]:LEU:O	1:J:30[B]:ILE:HG13	2.17	0.46
1:C:250[D]:ILE:N	1:C:250[D]:ILE:HD12	2.31	0.45
1:I:190[A]:PHE:HZ	1:J:214[A]:TYR:CD2	2.34	0.45
1:I:212[A]:LEU:HD12	1:J:50[A]:ALA:CB	2.47	0.45
1:C:250[A]:ILE:N	1:C:250[A]:ILE:HD12	2.31	0.45
1:I:165[A]:THR:HG21	1:J:38[A]:PRO:HD2	1.98	0.45
1:I:165[C]:THR:HG21	1:J:38[C]:PRO:HD2	1.98	0.45
1:C:250[C]:ILE:N	1:C:250[C]:ILE:HD12	2.31	0.45
1:K:220[B]:LEU:HG	1:K:224[B]:VAL:HG21	1.98	0.45
1:C:250[B]:ILE:N	1:C:250[B]:ILE:HD12	2.31	0.45
1:N:26[D]:LEU:O	1:N:30[D]:ILE:HG13	2.16	0.45
1:O:269[A]:GLN:HB2	1:O:311[A]:ILE:HD13	1.99	0.45
1:O:269[C]:GLN:HB2	1:O:311[C]:ILE:HD13	1.99	0.45
1:I:46[C]:VAL:HG13	1:I:46[C]:VAL:O	2.17	0.45
1:I:46[B]:VAL:O	1:I:46[B]:VAL:HG13	2.17	0.45
1:J:26[D]:LEU:O	1:J:30[D]:ILE:HG13	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:189[A]:MET:O	1:K:190[A]:PHE:HB3	2.15	0.45
1:L:46[B]:VAL:HG13	1:L:46[B]:VAL:O	2.16	0.45
1:N:70[B]:ARG:NH1	1:N:310[B]:LYS:HD3	2.30	0.45
1:P:219[B]:ASP:HB2	2:P:700[B]:UMP:O3'	2.17	0.45
1:I:165[B]:THR:HG21	1:J:38[B]:PRO:HD2	1.98	0.45
1:O:269[D]:GLN:HB2	1:O:311[D]:ILE:HD13	1.99	0.45
1:K:190[D]:PHE:HZ	1:L:214[D]:TYR:CD2	2.34	0.45
1:E:212[D]:LEU:HD23	1:E:213[D]:MET:N	2.32	0.45
1:C:264[D]:GLU:HB2	1:C:265[D]:PRO:HD3	1.97	0.45
1:H:118[D]:ARG:HD3	1:H:122[D]:ASP:OD2	2.16	0.45
1:E:212[A]:LEU:HD23	1:E:213[A]:MET:N	2.32	0.45
1:C:264[A]:GLU:HB2	1:C:265[A]:PRO:HD3	1.97	0.45
1:H:118[A]:ARG:HD3	1:H:122[A]:ASP:OD2	2.16	0.45
1:E:212[C]:LEU:HD23	1:E:213[C]:MET:N	2.32	0.45
1:O:73[C]:LEU:HD21	1:O:302[C]:VAL:HG21	1.98	0.45
1:C:264[C]:GLU:HB2	1:C:265[C]:PRO:HD3	1.97	0.45
1:H:118[C]:ARG:HD3	1:H:122[C]:ASP:OD2	2.16	0.45
1:E:212[B]:LEU:HD23	1:E:213[B]:MET:N	2.32	0.45
1:C:264[B]:GLU:HB2	1:C:265[B]:PRO:HD3	1.97	0.45
1:H:118[B]:ARG:HD3	1:H:122[B]:ASP:OD2	2.16	0.45
1:P:269[D]:GLN:HB2	1:P:311[D]:ILE:HD13	1.99	0.45
1:P:26[D]:LEU:HD23	1:P:220[D]:LEU:HD21	1.98	0.45
1:I:165[D]:THR:HG21	1:J:38[D]:PRO:HD2	1.99	0.45
1:I:219[C]:ASP:HB2	2:I:350[C]:UMP:O3'	2.15	0.45
1:P:269[B]:GLN:HB2	1:P:311[B]:ILE:HD13	1.99	0.45
1:J:189[D]:MET:O	1:J:190[D]:PHE:HB3	2.17	0.45
1:P:219[D]:ASP:HB2	2:P:700[D]:UMP:O3'	2.17	0.45
1:L:26[C]:LEU:O	1:L:30[C]:ILE:HG13	2.17	0.45
1:M:269[A]:GLN:HB2	1:M:311[A]:ILE:HD13	1.99	0.45
1:I:134[A]:PHE:CZ	1:J:176[A]:PRO:HD2	2.52	0.45
1:I:53[C]:SER:HB3	1:I:252[C]:GLN:HE21	1.81	0.45
1:J:26[C]:LEU:O	1:J:30[C]:ILE:HG13	2.17	0.45
1:I:53[B]:SER:HB3	1:I:252[B]:GLN:HE21	1.80	0.45
1:M:176[B]:PRO:HD2	1:N:134[B]:PHE:CZ	2.51	0.45
1:M:157[D]:ILE:HD13	1:M:238[D]:ILE:HG23	1.99	0.45
1:K:269[A]:GLN:HB2	1:K:311[A]:ILE:HD13	1.99	0.45
1:M:269[C]:GLN:HB2	1:M:311[C]:ILE:HD13	1.99	0.45
1:J:53[B]:SER:HB3	1:J:252[B]:GLN:HE21	1.80	0.45
1:A:212[D]:LEU:HD23	1:A:213[D]:MET:N	2.32	0.45
1:L:46[D]:VAL:O	1:L:46[D]:VAL:HG13	2.17	0.45
1:N:70[D]:ARG:NH1	1:N:310[D]:LYS:HD3	2.31	0.45
1:D:264[D]:GLU:HB2	1:D:265[D]:PRO:HD3	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:212[A]:LEU:HD23	1:J:213[A]:MET:N	2.32	0.45
1:P:269[A]:GLN:HB2	1:P:311[A]:ILE:HD13	1.99	0.45
1:A:212[A]:LEU:HD23	1:A:213[A]:MET:N	2.32	0.45
1:K:220[A]:LEU:HG	1:K:224[A]:VAL:HG21	1.99	0.45
1:D:264[A]:GLU:HB2	1:D:265[A]:PRO:HD3	1.98	0.45
1:N:220[A]:LEU:HG	1:N:224[A]:VAL:HG21	1.97	0.45
1:A:212[C]:LEU:HD23	1:A:213[C]:MET:N	2.32	0.45
1:K:74[C]:ARG:NH2	1:N:70[C]:ARG:HD3	2.31	0.45
1:D:264[C]:GLU:HB2	1:D:265[C]:PRO:HD3	1.98	0.45
1:P:24[C]:LEU:HD11	1:P:68[C]:THR:HG21	1.98	0.45
1:O:269[B]:GLN:HB2	1:O:311[B]:ILE:HD13	1.99	0.45
1:A:212[B]:LEU:HD23	1:A:213[B]:MET:N	2.32	0.45
1:L:26[B]:LEU:O	1:L:30[B]:ILE:HG13	2.17	0.45
1:I:216[B]:ARG:HG3	1:I:217[B]:SER:N	2.31	0.45
1:L:70[B]:ARG:NH1	1:L:310[B]:LYS:HD3	2.32	0.45
1:D:264[B]:GLU:HB2	1:D:265[B]:PRO:HD3	1.98	0.45
1:K:74[D]:ARG:NH2	1:N:70[D]:ARG:HD3	2.32	0.45
1:K:216[D]:ARG:HG3	1:K:217[D]:SER:N	2.32	0.45
1:J:212[C]:LEU:HD23	1:J:213[C]:MET:N	2.32	0.45
1:K:74[B]:ARG:NH2	1:N:70[B]:ARG:HD3	2.32	0.45
1:C:212[D]:LEU:HD23	1:C:213[D]:MET:N	2.32	0.44
1:K:46[D]:VAL:O	1:K:46[D]:VAL:HG13	2.17	0.44
1:L:70[D]:ARG:NH1	1:L:310[D]:LYS:HD3	2.32	0.44
1:B:250[D]:ILE:HD12	1:B:250[D]:ILE:N	2.31	0.44
1:C:212[A]:LEU:HD23	1:C:213[A]:MET:N	2.32	0.44
1:K:176[A]:PRO:HD2	1:L:134[A]:PHE:CZ	2.52	0.44
1:B:250[A]:ILE:N	1:B:250[A]:ILE:HD12	2.31	0.44
1:N:189[C]:MET:O	1:N:190[C]:PHE:HB3	2.17	0.44
1:C:212[C]:LEU:HD23	1:C:213[C]:MET:N	2.32	0.44
1:M:46[C]:VAL:HG13	1:M:46[C]:VAL:O	2.17	0.44
1:O:216[C]:ARG:HG3	1:O:217[C]:SER:N	2.31	0.44
1:B:250[C]:ILE:HD12	1:B:250[C]:ILE:N	2.31	0.44
1:M:269[B]:GLN:HB2	1:M:311[B]:ILE:HD13	2.00	0.44
1:K:134[B]:PHE:CE1	1:L:176[B]:PRO:HD2	2.52	0.44
1:C:212[B]:LEU:HD23	1:C:213[B]:MET:N	2.32	0.44
1:K:46[B]:VAL:O	1:K:46[B]:VAL:HG13	2.17	0.44
1:P:26[B]:LEU:HD23	1:P:220[B]:LEU:HD21	1.99	0.44
1:P:24[B]:LEU:HD11	1:P:68[B]:THR:HG21	1.98	0.44
1:K:176[B]:PRO:HD2	1:L:134[B]:PHE:CZ	2.51	0.44
1:O:134[B]:PHE:CZ	1:P:176[B]:PRO:HD2	2.52	0.44
1:B:250[B]:ILE:N	1:B:250[B]:ILE:HD12	2.31	0.44
1:I:53[D]:SER:HB3	1:I:252[D]:GLN:HE21	1.82	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:212[D]:LEU:HD23	1:D:213[D]:MET:N	2.32	0.44
1:L:269[A]:GLN:HB2	1:L:311[A]:ILE:HD13	1.99	0.44
1:D:212[A]:LEU:HD23	1:D:213[A]:MET:N	2.32	0.44
1:O:26[C]:LEU:HD23	1:O:220[C]:LEU:HD21	1.99	0.44
1:D:212[C]:LEU:HD23	1:D:213[C]:MET:N	2.32	0.44
1:P:219[C]:ASP:HB2	2:P:700[C]:UMP:O3'	2.17	0.44
1:D:212[B]:LEU:HD23	1:D:213[B]:MET:N	2.32	0.44
1:K:269[D]:GLN:HB2	1:K:311[D]:ILE:HD13	1.99	0.44
1:J:34[D]:GLY:HA3	1:J:46[D]:VAL:HG22	1.99	0.44
1:G:212[D]:LEU:HD12	1:H:50[D]:ALA:HB2	1.99	0.44
1:D:79[D]:GLU:O	1:D:82[D]:TRP:HB3	2.17	0.44
1:A:217[D]:SER:OG	1:B:167[D]:ARG:HD3	2.17	0.44
1:G:134[D]:PHE:CZ	1:H:176[D]:PRO:HD2	2.52	0.44
1:C:217[D]:SER:OG	1:D:167[D]:ARG:HD3	2.17	0.44
1:B:109[D]:PHE:O	1:B:112[D]:LYS:HB3	2.18	0.44
1:G:212[A]:LEU:HD12	1:H:50[A]:ALA:HB2	1.99	0.44
1:B:109[A]:PHE:O	1:B:112[A]:LYS:HB3	2.18	0.44
1:D:79[A]:GLU:O	1:D:82[A]:TRP:HB3	2.17	0.44
1:A:217[A]:SER:OG	1:B:167[A]:ARG:HD3	2.17	0.44
1:C:217[A]:SER:OG	1:D:167[A]:ARG:HD3	2.17	0.44
1:G:134[A]:PHE:CZ	1:H:176[A]:PRO:HD2	2.52	0.44
1:K:134[C]:PHE:CE1	1:L:176[C]:PRO:HD2	2.52	0.44
1:G:212[C]:LEU:HD12	1:H:50[C]:ALA:HB2	1.99	0.44
1:C:217[C]:SER:OG	1:D:167[C]:ARG:HD3	2.17	0.44
1:D:79[C]:GLU:O	1:D:82[C]:TRP:HB3	2.17	0.44
1:B:109[C]:PHE:O	1:B:112[C]:LYS:HB3	2.18	0.44
1:A:217[C]:SER:OG	1:B:167[C]:ARG:HD3	2.17	0.44
1:G:134[C]:PHE:CZ	1:H:176[C]:PRO:HD2	2.52	0.44
1:K:269[B]:GLN:HB2	1:K:311[B]:ILE:HD13	1.99	0.44
1:N:189[B]:MET:O	1:N:190[B]:PHE:HB3	2.17	0.44
1:G:212[B]:LEU:HD12	1:H:50[B]:ALA:HB2	1.99	0.44
1:C:217[B]:SER:OG	1:D:167[B]:ARG:HD3	2.17	0.44
1:J:73[B]:LEU:HD21	1:J:302[B]:VAL:HG21	1.99	0.44
1:D:79[B]:GLU:O	1:D:82[B]:TRP:HB3	2.17	0.44
1:B:109[B]:PHE:O	1:B:112[B]:LYS:HB3	2.18	0.44
1:A:217[B]:SER:OG	1:B:167[B]:ARG:HD3	2.17	0.44
1:G:134[B]:PHE:CZ	1:H:176[B]:PRO:HD2	2.52	0.44
1:M:189[D]:MET:O	1:M:190[D]:PHE:HB3	2.17	0.44
1:P:216[D]:ARG:HG3	1:P:217[D]:SER:N	2.31	0.44
1:J:216[D]:ARG:HG3	1:J:217[D]:SER:N	2.32	0.44
1:J:212[B]:LEU:HD23	1:J:213[B]:MET:N	2.33	0.44
1:I:189[B]:MET:O	1:I:190[B]:PHE:HB3	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:216[B]:ARG:HG3	1:O:217[B]:SER:N	2.31	0.44
1:J:53[D]:SER:HB3	1:J:252[D]:GLN:HE21	1.81	0.44
1:I:190[D]:PHE:HZ	1:J:214[D]:TYR:CD2	2.35	0.44
1:C:195[D]:VAL:O	1:D:37[D]:ARG:NH1	2.42	0.44
1:L:34[D]:GLY:HA3	1:L:46[D]:VAL:HG22	2.00	0.44
1:O:134[D]:PHE:CZ	1:P:176[D]:PRO:HD2	2.53	0.44
1:I:269[A]:GLN:HB2	1:I:311[A]:ILE:HD13	2.00	0.44
1:J:269[A]:GLN:HB2	1:J:311[A]:ILE:HD13	1.99	0.44
1:C:195[A]:VAL:O	1:D:37[A]:ARG:NH1	2.42	0.44
1:C:195[C]:VAL:O	1:D:37[C]:ARG:NH1	2.42	0.44
1:P:46[C]:VAL:HG13	1:P:46[C]:VAL:O	2.17	0.44
1:O:24[C]:LEU:HD11	1:O:68[C]:THR:HG21	1.99	0.44
1:C:195[B]:VAL:O	1:D:37[B]:ARG:NH1	2.42	0.44
1:P:46[B]:VAL:HG13	1:P:46[B]:VAL:O	2.16	0.44
1:I:189[D]:MET:O	1:I:190[D]:PHE:HB3	2.17	0.44
1:G:212[D]:LEU:HD23	1:G:213[D]:MET:N	2.33	0.44
1:P:73[D]:LEU:HD21	1:P:302[D]:VAL:HG21	1.99	0.44
1:A:23[D]:TYR:CZ	1:A:27[D]:ILE:HD11	2.53	0.44
1:D:250[D]:ILE:HD12	1:D:250[D]:ILE:N	2.32	0.44
1:K:176[D]:PRO:HD2	1:L:134[D]:PHE:CZ	2.52	0.44
1:O:212[A]:LEU:HD23	1:O:213[A]:MET:N	2.33	0.44
1:G:212[A]:LEU:HD23	1:G:213[A]:MET:N	2.33	0.44
1:A:23[A]:TYR:CZ	1:A:27[A]:ILE:HD11	2.53	0.44
1:D:250[A]:ILE:N	1:D:250[A]:ILE:HD12	2.32	0.44
1:L:34[C]:GLY:HA3	1:L:46[C]:VAL:HG22	2.00	0.44
1:L:46[C]:VAL:HG13	1:L:46[C]:VAL:O	2.18	0.44
1:I:34[C]:GLY:HA3	1:I:46[C]:VAL:HG22	1.99	0.44
1:G:212[C]:LEU:HD23	1:G:213[C]:MET:N	2.33	0.44
1:A:23[C]:TYR:CZ	1:A:27[C]:ILE:HD11	2.53	0.44
1:K:24[C]:LEU:HD11	1:K:68[C]:THR:HG21	1.98	0.44
1:K:216[C]:ARG:HG3	1:K:217[C]:SER:N	2.32	0.44
1:O:134[C]:PHE:CZ	1:P:176[C]:PRO:HD2	2.53	0.44
1:D:250[C]:ILE:HD12	1:D:250[C]:ILE:N	2.32	0.44
1:I:44[B]:GLY:C	1:I:260[B]:ARG:HG2	2.37	0.44
1:I:190[B]:PHE:HZ	1:J:214[B]:TYR:CD2	2.35	0.44
1:L:34[B]:GLY:HA3	1:L:46[B]:VAL:HG22	2.00	0.44
1:G:212[B]:LEU:HD23	1:G:213[B]:MET:N	2.33	0.44
1:A:23[B]:TYR:CZ	1:A:27[B]:ILE:HD11	2.53	0.44
1:D:250[B]:ILE:HD12	1:D:250[B]:ILE:N	2.32	0.44
1:B:269[D]:GLN:HB2	1:B:311[D]:ILE:HD13	1.99	0.44
1:O:26[D]:LEU:HD23	1:O:220[D]:LEU:HD21	1.99	0.44
1:I:219[D]:ASP:HB2	2:I:350[D]:UMP:O3'	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:109[D]:PHE:O	1:D:112[D]:LYS:HB3	2.18	0.44
1:A:118[D]:ARG:HD3	1:A:122[D]:ASP:OD2	2.18	0.44
1:K:73[D]:LEU:HD21	1:K:302[D]:VAL:HG21	2.00	0.44
1:M:176[D]:PRO:HD2	1:N:134[D]:PHE:CZ	2.52	0.44
1:B:269[A]:GLN:HB2	1:B:311[A]:ILE:HD13	1.99	0.44
1:D:109[A]:PHE:O	1:D:112[A]:LYS:HB3	2.18	0.44
1:P:219[A]:ASP:HB2	2:P:700[A]:UMP:O3'	2.18	0.44
1:A:118[A]:ARG:HD3	1:A:122[A]:ASP:OD2	2.18	0.44
1:J:53[C]:SER:HB3	1:J:252[C]:GLN:HE21	1.82	0.44
1:J:269[C]:GLN:HB2	1:J:311[C]:ILE:HD13	2.00	0.44
1:B:269[C]:GLN:HB2	1:B:311[C]:ILE:HD13	1.99	0.44
1:D:109[C]:PHE:O	1:D:112[C]:LYS:HB3	2.18	0.44
1:M:176[C]:PRO:HD2	1:N:134[C]:PHE:CZ	2.52	0.44
1:K:73[C]:LEU:HD21	1:K:302[C]:VAL:HG21	2.00	0.44
1:A:118[C]:ARG:HD3	1:A:122[C]:ASP:OD2	2.18	0.44
1:B:269[B]:GLN:HB2	1:B:311[B]:ILE:HD13	1.99	0.44
1:O:26[B]:LEU:HD23	1:O:220[B]:LEU:HD21	1.99	0.44
1:D:109[B]:PHE:O	1:D:112[B]:LYS:HB3	2.18	0.44
1:K:73[B]:LEU:HD21	1:K:302[B]:VAL:HG21	2.00	0.44
1:A:118[B]:ARG:HD3	1:A:122[B]:ASP:OD2	2.18	0.44
1:C:190[D]:PHE:CZ	1:D:214[D]:TYR:CD2	3.05	0.44
1:E:50[D]:ALA:CB	1:F:212[D]:LEU:HD12	2.48	0.44
1:F:100[D]:ILE:HB	3:F:2601[D]:CB3:C13	2.47	0.44
1:C:190[A]:PHE:CZ	1:D:214[A]:TYR:CD2	3.05	0.44
1:E:50[A]:ALA:CB	1:F:212[A]:LEU:HD12	2.48	0.44
1:O:50[A]:ALA:HB2	1:P:212[A]:LEU:HD12	1.99	0.44
1:O:46[A]:VAL:O	1:O:46[A]:VAL:HG13	2.17	0.44
1:F:100[A]:ILE:HB	3:F:2601[A]:CB3:C13	2.47	0.44
1:C:190[C]:PHE:CZ	1:D:214[C]:TYR:CD2	3.05	0.44
1:E:50[C]:ALA:CB	1:F:212[C]:LEU:HD12	2.48	0.44
1:J:73[C]:LEU:HD21	1:J:302[C]:VAL:HG21	1.99	0.44
1:F:100[C]:ILE:HB	3:F:2601[C]:CB3:C13	2.47	0.44
1:C:190[B]:PHE:CZ	1:D:214[B]:TYR:CD2	3.05	0.44
1:J:269[B]:GLN:HB2	1:J:311[B]:ILE:HD13	2.00	0.44
1:E:50[B]:ALA:CB	1:F:212[B]:LEU:HD12	2.48	0.44
1:F:100[B]:ILE:HB	3:F:2601[B]:CB3:C13	2.47	0.44
1:K:216[B]:ARG:HG3	1:K:217[B]:SER:N	2.32	0.44
1:I:44[D]:GLY:C	1:I:260[D]:ARG:HG2	2.37	0.44
1:E:118[D]:ARG:HD2	1:E:122[D]:ASP:OD2	2.18	0.44
1:P:46[D]:VAL:O	1:P:46[D]:VAL:HG13	2.17	0.44
1:I:216[D]:ARG:HG3	1:I:217[D]:SER:N	2.32	0.44
1:C:246[D]:PRO:HG2	4:C:999[D]:HOH:O	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:79[D]:GLU:O	1:F:82[D]:TRP:HB3	2.18	0.44
1:E:118[A]:ARG:HD2	1:E:122[A]:ASP:OD2	2.18	0.44
1:I:46[A]:VAL:O	1:I:46[A]:VAL:HG13	2.18	0.44
1:C:246[A]:PRO:HG2	4:C:999[A]:HOH:O	2.17	0.44
1:F:79[A]:GLU:O	1:F:82[A]:TRP:HB3	2.18	0.44
1:P:269[C]:GLN:HB2	1:P:311[C]:ILE:HD13	2.00	0.44
1:E:118[C]:ARG:HD2	1:E:122[C]:ASP:OD2	2.18	0.44
1:J:34[C]:GLY:HA3	1:J:46[C]:VAL:HG22	2.00	0.44
1:C:246[C]:PRO:HG2	4:C:999[C]:HOH:O	2.17	0.44
1:F:79[C]:GLU:O	1:F:82[C]:TRP:HB3	2.18	0.44
1:L:269[B]:GLN:HB2	1:L:311[B]:ILE:HD13	2.00	0.44
1:E:118[B]:ARG:HD2	1:E:122[B]:ASP:OD2	2.18	0.44
1:O:73[B]:LEU:HD21	1:O:302[B]:VAL:HG21	2.00	0.44
1:C:246[B]:PRO:HG2	4:C:999[B]:HOH:O	2.17	0.44
1:F:79[B]:GLU:O	1:F:82[B]:TRP:HB3	2.18	0.44
1:F:118[D]:ARG:HD2	1:F:122[D]:ASP:OD2	2.17	0.43
1:M:269[D]:GLN:HB2	1:M:311[D]:ILE:HD13	2.00	0.43
1:J:269[D]:GLN:HB2	1:J:311[D]:ILE:HD13	2.00	0.43
1:O:212[D]:LEU:HD23	1:O:213[D]:MET:N	2.33	0.43
1:O:24[D]:LEU:HD11	1:O:68[D]:THR:HG21	1.99	0.43
1:F:118[A]:ARG:HD2	1:F:122[A]:ASP:OD2	2.17	0.43
1:M:212[A]:LEU:HD23	1:M:213[A]:MET:N	2.33	0.43
1:P:70[A]:ARG:NH1	1:P:310[A]:LYS:HD3	2.33	0.43
1:F:118[C]:ARG:HD2	1:F:122[C]:ASP:OD2	2.17	0.43
1:L:269[C]:GLN:HB2	1:L:311[C]:ILE:HD13	2.00	0.43
1:K:176[C]:PRO:HD2	1:L:134[C]:PHE:CZ	2.52	0.43
1:F:118[B]:ARG:HD2	1:F:122[B]:ASP:OD2	2.17	0.43
1:P:216[B]:ARG:HG3	1:P:217[B]:SER:N	2.32	0.43
1:J:212[D]:LEU:HD23	1:J:213[D]:MET:N	2.33	0.43
1:N:189[D]:MET:O	1:N:190[D]:PHE:HB3	2.18	0.43
1:I:220[D]:LEU:HA	1:I:224[D]:VAL:CG2	2.48	0.43
1:B:100[D]:ILE:HB	3:B:2401[D]:CB3:C13	2.47	0.43
1:E:109[D]:PHE:O	1:E:112[D]:LYS:HB3	2.17	0.43
1:O:189[A]:MET:O	1:O:190[A]:PHE:HB3	2.17	0.43
1:N:189[A]:MET:O	1:N:190[A]:PHE:HB3	2.18	0.43
1:B:100[A]:ILE:HB	3:B:2401[A]:CB3:C13	2.47	0.43
1:O:73[A]:LEU:HD21	1:O:302[A]:VAL:HG21	2.00	0.43
1:E:109[A]:PHE:O	1:E:112[A]:LYS:HB3	2.17	0.43
1:I:44[C]:GLY:C	1:I:260[C]:ARG:HG2	2.37	0.43
1:B:100[C]:ILE:HB	3:B:2401[C]:CB3:C13	2.47	0.43
1:P:216[C]:ARG:HG3	1:P:217[C]:SER:N	2.32	0.43
1:E:109[C]:PHE:O	1:E:112[C]:LYS:HB3	2.17	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:100[B]:ILE:HB	3:B:2401[B]:CB3:C13	2.47	0.43
1:E:109[B]:PHE:O	1:E:112[B]:LYS:HB3	2.17	0.43
1:E:22[D]:GLN:NE2	1:E:55[D]:ARG:H	2.07	0.43
1:J:73[D]:LEU:HD21	1:J:302[D]:VAL:HG21	2.00	0.43
1:H:24[D]:LEU:HD11	1:H:68[D]:THR:HG21	2.01	0.43
1:O:165[D]:THR:HG21	1:P:38[D]:PRO:HD2	2.00	0.43
1:E:22[A]:GLN:NE2	1:E:55[A]:ARG:H	2.07	0.43
1:J:189[A]:MET:O	1:J:190[A]:PHE:HB3	2.18	0.43
1:K:212[A]:LEU:HD23	1:K:213[A]:MET:N	2.34	0.43
1:P:212[A]:LEU:HD23	1:P:213[A]:MET:N	2.33	0.43
1:H:24[A]:LEU:HD11	1:H:68[A]:THR:HG21	2.01	0.43
1:N:73[A]:LEU:HD21	1:N:302[A]:VAL:HG21	2.00	0.43
1:E:22[C]:GLN:NE2	1:E:55[C]:ARG:H	2.07	0.43
1:N:212[C]:LEU:HD23	1:N:213[C]:MET:N	2.33	0.43
1:I:190[C]:PHE:HZ	1:J:214[C]:TYR:CD2	2.36	0.43
1:P:26[C]:LEU:HD23	1:P:220[C]:LEU:HD21	2.00	0.43
1:H:24[C]:LEU:HD11	1:H:68[C]:THR:HG21	2.01	0.43
1:E:22[B]:GLN:NE2	1:E:55[B]:ARG:H	2.07	0.43
1:M:189[B]:MET:O	1:M:190[B]:PHE:HB3	2.18	0.43
1:O:212[B]:LEU:HD23	1:O:213[B]:MET:N	2.33	0.43
1:M:46[B]:VAL:O	1:M:46[B]:VAL:HG13	2.18	0.43
1:H:24[B]:LEU:HD11	1:H:68[B]:THR:HG21	2.01	0.43
1:O:24[B]:LEU:HD11	1:O:68[B]:THR:HG21	1.99	0.43
1:P:189[D]:MET:O	1:P:190[D]:PHE:HB3	2.19	0.43
1:K:74[D]:ARG:HH21	1:N:70[D]:ARG:HD2	1.83	0.43
1:K:74[A]:ARG:HH21	1:N:70[A]:ARG:HD2	1.83	0.43
1:K:269[C]:GLN:HB2	1:K:311[C]:ILE:HD13	2.00	0.43
1:I:216[C]:ARG:HG3	1:I:217[C]:SER:N	2.33	0.43
1:C:201[D]:ASP:O	1:C:202[D]:SER:CB	2.66	0.43
1:A:50[D]:ALA:HB2	1:B:212[D]:LEU:HD12	2.01	0.43
1:E:37[D]:ARG:NH1	1:F:195[D]:VAL:O	2.45	0.43
1:F:109[D]:PHE:O	1:F:112[D]:LYS:HB3	2.19	0.43
1:C:201[A]:ASP:O	1:C:202[A]:SER:CB	2.66	0.43
1:A:50[A]:ALA:HB2	1:B:212[A]:LEU:HD12	2.01	0.43
1:L:46[A]:VAL:O	1:L:46[A]:VAL:HG13	2.19	0.43
1:E:37[A]:ARG:NH1	1:F:195[A]:VAL:O	2.45	0.43
1:F:109[A]:PHE:O	1:F:112[A]:LYS:HB3	2.19	0.43
1:I:269[C]:GLN:HB2	1:I:311[C]:ILE:HD13	2.01	0.43
1:C:201[C]:ASP:O	1:C:202[C]:SER:CB	2.66	0.43
1:A:50[C]:ALA:HB2	1:B:212[C]:LEU:HD12	2.01	0.43
1:E:37[C]:ARG:NH1	1:F:195[C]:VAL:O	2.45	0.43
1:F:109[C]:PHE:O	1:F:112[C]:LYS:HB3	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:201[B]:ASP:O	1:C:202[B]:SER:CB	2.66	0.43
1:A:50[B]:ALA:HB2	1:B:212[B]:LEU:HD12	2.01	0.43
1:I:34[B]:GLY:HA3	1:I:46[B]:VAL:HG22	1.99	0.43
1:E:37[B]:ARG:NH1	1:F:195[B]:VAL:O	2.45	0.43
1:F:109[B]:PHE:O	1:F:112[B]:LYS:HB3	2.19	0.43
1:M:190[D]:PHE:HZ	1:N:214[D]:TYR:CD2	2.36	0.43
1:M:46[D]:VAL:O	1:M:46[D]:VAL:HG13	2.18	0.43
1:P:24[D]:LEU:HD11	1:P:68[D]:THR:HG21	1.99	0.43
1:N:212[A]:LEU:HD23	1:N:213[A]:MET:N	2.33	0.43
1:G:297[D]:VAL:HG23	4:G:429[D]:HOH:O	2.19	0.43
1:H:109[D]:PHE:O	1:H:112[D]:LYS:HB3	2.19	0.43
1:H:79[D]:GLU:O	1:H:82[D]:TRP:HB3	2.19	0.43
1:M:216[D]:ARG:HG3	1:M:217[D]:SER:N	2.32	0.43
1:P:189[A]:MET:O	1:P:190[A]:PHE:HB3	2.19	0.43
1:I:44[A]:GLY:C	1:I:260[A]:ARG:HG2	2.38	0.43
1:M:24[A]:LEU:HD11	1:M:68[A]:THR:HG21	2.00	0.43
1:G:297[A]:VAL:HG23	4:G:429[A]:HOH:O	2.19	0.43
1:H:109[A]:PHE:O	1:H:112[A]:LYS:HB3	2.19	0.43
1:H:79[A]:GLU:O	1:H:82[A]:TRP:HB3	2.19	0.43
1:P:189[C]:MET:O	1:P:190[C]:PHE:HB3	2.19	0.43
1:L:24[C]:LEU:HD11	1:L:68[C]:THR:HG21	2.00	0.43
1:G:297[C]:VAL:HG23	4:G:429[C]:HOH:O	2.19	0.43
1:M:216[C]:ARG:HG3	1:M:217[C]:SER:N	2.32	0.43
1:N:216[C]:ARG:HG3	1:N:217[C]:SER:N	2.33	0.43
1:H:79[C]:GLU:O	1:H:82[C]:TRP:HB3	2.19	0.43
1:H:109[C]:PHE:O	1:H:112[C]:LYS:HB3	2.19	0.43
1:G:297[B]:VAL:HG23	4:G:429[B]:HOH:O	2.19	0.43
1:H:109[B]:PHE:O	1:H:112[B]:LYS:HB3	2.19	0.43
1:H:79[B]:GLU:O	1:H:82[B]:TRP:HB3	2.19	0.43
1:A:147[D]:GLY:HA2	1:D:137[D]:GLU:OE1	2.18	0.43
1:P:70[D]:ARG:HH12	1:P:310[D]:LYS:HD3	1.83	0.43
1:O:216[D]:ARG:HG3	1:O:217[D]:SER:N	2.33	0.43
1:M:24[D]:LEU:HD11	1:M:68[D]:THR:HG21	2.00	0.43
1:A:147[A]:GLY:HA2	1:D:137[A]:GLU:OE1	2.18	0.43
1:K:219[A]:ASP:HB2	2:K:450[A]:UMP:O3'	2.18	0.43
1:M:189[C]:MET:O	1:M:190[C]:PHE:HB3	2.18	0.43
1:O:212[C]:LEU:HD23	1:O:213[C]:MET:N	2.34	0.43
1:A:147[C]:GLY:HA2	1:D:137[C]:GLU:OE1	2.18	0.43
1:I:157[C]:ILE:HD13	1:I:238[C]:ILE:HG23	2.00	0.43
1:K:53[B]:SER:HB3	1:K:252[B]:GLN:HE21	1.81	0.43
1:A:147[B]:GLY:HA2	1:D:137[B]:GLU:OE1	2.18	0.43
1:K:74[B]:ARG:HH21	1:N:70[B]:ARG:HD2	1.84	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:216[B]:ARG:HG3	1:L:217[B]:SER:N	2.33	0.43
1:M:216[B]:ARG:HG3	1:M:217[B]:SER:N	2.32	0.43
1:H:200[D]:ALA:O	1:H:203[D]:PRO:HD3	2.19	0.43
1:G:189[D]:MET:O	1:G:190[D]:PHE:HB3	2.18	0.43
1:N:212[D]:LEU:HD23	1:N:213[D]:MET:N	2.33	0.43
1:K:70[D]:ARG:HH12	1:K:310[D]:LYS:HD3	1.81	0.43
1:P:34[D]:GLY:HA3	1:P:46[D]:VAL:HG22	2.01	0.43
1:C:74[D]:ARG:NH2	1:F:70[D]:ARG:HD3	2.34	0.43
1:I:24[D]:LEU:HD11	1:I:68[D]:THR:HG21	1.99	0.43
1:H:200[A]:ALA:O	1:H:203[A]:PRO:HD3	2.19	0.43
1:G:189[A]:MET:O	1:G:190[A]:PHE:HB3	2.18	0.43
1:C:74[A]:ARG:NH2	1:F:70[A]:ARG:HD3	2.34	0.43
1:I:176[A]:PRO:HD2	1:J:134[A]:PHE:CZ	2.53	0.43
1:M:157[A]:ILE:HD13	1:M:238[A]:ILE:HG23	2.01	0.43
1:H:200[C]:ALA:O	1:H:203[C]:PRO:HD3	2.19	0.43
1:G:189[C]:MET:O	1:G:190[C]:PHE:HB3	2.18	0.43
1:I:189[C]:MET:O	1:I:190[C]:PHE:HB3	2.19	0.43
1:C:74[C]:ARG:NH2	1:F:70[C]:ARG:HD3	2.34	0.43
1:P:73[C]:LEU:HD21	1:P:302[C]:VAL:HG21	2.01	0.43
1:H:200[B]:ALA:O	1:H:203[B]:PRO:HD3	2.19	0.43
1:G:189[B]:MET:O	1:G:190[B]:PHE:HB3	2.18	0.43
1:N:212[B]:LEU:HD23	1:N:213[B]:MET:N	2.34	0.43
1:C:74[B]:ARG:NH2	1:F:70[B]:ARG:HD3	2.34	0.43
1:P:73[B]:LEU:HD21	1:P:302[B]:VAL:HG21	2.00	0.43
1:J:216[B]:ARG:HG3	1:J:217[B]:SER:N	2.34	0.43
1:N:216[B]:ARG:HG3	1:N:217[B]:SER:N	2.33	0.43
1:K:134[D]:PHE:CE1	1:L:176[D]:PRO:HD2	2.54	0.43
1:I:34[D]:GLY:HA3	1:I:46[D]:VAL:HG22	2.00	0.43
1:D:297[D]:VAL:HG23	4:D:973[D]:HOH:O	2.19	0.43
1:A:186[D]:PRO:HG3	4:A:1157[D]:HOH:O	2.17	0.43
1:E:167[D]:ARG:HD3	1:F:217[D]:SER:OG	2.19	0.43
1:K:24[D]:LEU:HD11	1:K:68[D]:THR:HG21	1.99	0.43
1:I:212[A]:LEU:HD23	1:I:213[A]:MET:N	2.34	0.43
1:D:297[A]:VAL:HG23	4:D:973[A]:HOH:O	2.19	0.43
1:A:186[A]:PRO:HG3	4:A:1157[A]:HOH:O	2.17	0.43
1:E:167[A]:ARG:HD3	1:F:217[A]:SER:OG	2.19	0.43
1:L:189[C]:MET:O	1:L:190[C]:PHE:HB3	2.19	0.43
1:M:190[C]:PHE:HZ	1:N:214[C]:TYR:CD2	2.37	0.43
1:M:70[C]:ARG:HH12	1:M:310[C]:LYS:HD3	1.82	0.43
1:D:297[C]:VAL:HG23	4:D:973[C]:HOH:O	2.19	0.43
1:A:186[C]:PRO:HG3	4:A:1157[C]:HOH:O	2.17	0.43
1:E:167[C]:ARG:HD3	1:F:217[C]:SER:OG	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:269[B]:GLN:HB2	1:I:311[B]:ILE:HD13	2.01	0.43
1:N:46[B]:VAL:HG13	1:N:46[B]:VAL:O	2.18	0.43
1:J:34[B]:GLY:HA3	1:J:46[B]:VAL:HG22	2.01	0.43
1:D:297[B]:VAL:HG23	4:D:973[B]:HOH:O	2.19	0.43
1:A:186[B]:PRO:HG3	4:A:1157[B]:HOH:O	2.17	0.43
1:E:167[B]:ARG:HD3	1:F:217[B]:SER:OG	2.19	0.43
1:M:24[B]:LEU:HD11	1:M:68[B]:THR:HG21	2.00	0.43
1:E:189[D]:MET:O	1:E:190[D]:PHE:HB3	2.18	0.42
1:I:269[D]:GLN:HB2	1:I:311[D]:ILE:HD13	2.01	0.42
1:L:189[D]:MET:O	1:L:190[D]:PHE:HB3	2.19	0.42
1:E:189[A]:MET:O	1:E:190[A]:PHE:HB3	2.18	0.42
1:I:189[A]:MET:O	1:I:190[A]:PHE:HB3	2.19	0.42
1:I:216[A]:ARG:HG3	1:I:217[A]:SER:N	2.34	0.42
1:E:189[C]:MET:O	1:E:190[C]:PHE:HB3	2.18	0.42
1:K:23[C]:TYR:CZ	1:K:27[C]:ILE:HD11	2.54	0.42
1:E:189[B]:MET:O	1:E:190[B]:PHE:HB3	2.18	0.42
1:M:190[B]:PHE:HZ	1:N:214[B]:TYR:CD2	2.37	0.42
1:M:70[B]:ARG:HH12	1:M:310[B]:LYS:HD3	1.81	0.42
1:K:24[B]:LEU:HD11	1:K:68[B]:THR:HG21	1.99	0.42
1:N:46[D]:VAL:HG13	1:N:46[D]:VAL:O	2.18	0.42
1:H:250[D]:ILE:N	1:H:250[D]:ILE:HD12	2.33	0.42
1:I:70[A]:ARG:HH12	1:I:310[A]:LYS:HD3	1.83	0.42
1:K:216[A]:ARG:HG3	1:K:217[A]:SER:N	2.34	0.42
1:H:250[A]:ILE:N	1:H:250[A]:ILE:HD12	2.33	0.42
1:I:147[C]:GLY:CA	1:L:137[C]:GLU:OE1	2.67	0.42
1:H:250[C]:ILE:N	1:H:250[C]:ILE:HD12	2.33	0.42
1:I:70[B]:ARG:HH12	1:I:310[B]:LYS:HD3	1.81	0.42
1:L:24[B]:LEU:HD11	1:L:68[B]:THR:HG21	2.00	0.42
1:H:250[B]:ILE:N	1:H:250[B]:ILE:HD12	2.33	0.42
1:A:189[D]:MET:O	1:A:190[D]:PHE:HB3	2.19	0.42
1:D:201[D]:ASP:O	1:D:202[D]:SER:CB	2.67	0.42
1:A:167[D]:ARG:HD3	1:B:217[D]:SER:HG	1.83	0.42
1:K:263[D]:VAL:HG12	1:K:267[D]:LYS:HE3	2.00	0.42
1:B:79[D]:GLU:O	1:B:82[D]:TRP:HB3	2.19	0.42
1:A:189[A]:MET:O	1:A:190[A]:PHE:HB3	2.19	0.42
1:D:201[A]:ASP:O	1:D:202[A]:SER:CB	2.67	0.42
1:B:79[A]:GLU:O	1:B:82[A]:TRP:HB3	2.19	0.42
1:A:167[A]:ARG:HD3	1:B:217[A]:SER:HG	1.83	0.42
1:A:189[C]:MET:O	1:A:190[C]:PHE:HB3	2.19	0.42
1:D:201[C]:ASP:O	1:D:202[C]:SER:CB	2.67	0.42
1:O:157[C]:ILE:HD13	1:O:238[C]:ILE:HG23	2.00	0.42
1:O:165[C]:THR:HG21	1:P:38[C]:PRO:HD2	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:79[C]:GLU:O	1:B:82[C]:TRP:HB3	2.19	0.42
1:A:167[C]:ARG:HD3	1:B:217[C]:SER:HG	1.83	0.42
1:A:189[B]:MET:O	1:A:190[B]:PHE:HB3	2.19	0.42
1:D:201[B]:ASP:O	1:D:202[B]:SER:CB	2.67	0.42
1:I:176[B]:PRO:HD2	1:J:134[B]:PHE:CZ	2.54	0.42
1:O:165[B]:THR:HG21	1:P:38[B]:PRO:HD2	2.01	0.42
1:K:23[B]:TYR:CZ	1:K:27[B]:ILE:HD11	2.54	0.42
1:A:167[B]:ARG:HD3	1:B:217[B]:SER:HG	1.83	0.42
1:B:79[B]:GLU:O	1:B:82[B]:TRP:HB3	2.19	0.42
1:K:53[D]:SER:HB3	1:K:252[D]:GLN:HE21	1.82	0.42
1:M:26[D]:LEU:O	1:M:30[D]:ILE:HG13	2.19	0.42
1:I:176[D]:PRO:HD2	1:J:134[D]:PHE:CZ	2.54	0.42
1:J:46[A]:VAL:O	1:J:46[A]:VAL:HG13	2.20	0.42
1:L:24[A]:LEU:HD11	1:L:68[A]:THR:HG21	2.01	0.42
1:O:165[A]:THR:HG21	1:P:38[A]:PRO:HD2	2.01	0.42
1:O:134[A]:PHE:CZ	1:P:176[A]:PRO:HD2	2.55	0.42
1:P:24[A]:LEU:HD11	1:P:68[A]:THR:HG21	2.01	0.42
1:O:24[A]:LEU:HD11	1:O:68[A]:THR:HG21	2.01	0.42
1:N:46[C]:VAL:O	1:N:46[C]:VAL:HG13	2.18	0.42
1:K:46[C]:VAL:O	1:K:46[C]:VAL:HG13	2.20	0.42
1:I:24[C]:LEU:HD11	1:I:68[C]:THR:HG21	1.99	0.42
1:O:157[B]:ILE:HD13	1:O:238[B]:ILE:HG23	2.00	0.42
1:O:263[B]:VAL:HG12	1:O:267[B]:LYS:HE3	2.01	0.42
1:I:24[B]:LEU:HD11	1:I:68[B]:THR:HG21	2.00	0.42
1:J:137[D]:GLU:OE1	1:K:147[D]:GLY:CA	2.67	0.42
1:M:190[A]:PHE:HZ	1:N:214[A]:TYR:CD2	2.37	0.42
1:K:134[A]:PHE:CE1	1:L:176[A]:PRO:HD2	2.54	0.42
1:K:24[A]:LEU:HD11	1:K:68[A]:THR:HG21	2.00	0.42
1:H:14[C]:SER:CB	1:N:199[C]:PRO:HB3	2.48	0.42
1:K:212[C]:LEU:HD23	1:K:213[C]:MET:N	2.35	0.42
1:O:220[C]:LEU:HA	1:O:224[C]:VAL:CG2	2.49	0.42
1:J:41[C]:THR:HB	1:J:316[C]:SER:HB3	2.01	0.42
1:P:34[C]:GLY:HA3	1:P:46[C]:VAL:HG22	2.01	0.42
1:M:24[C]:LEU:HD11	1:M:68[C]:THR:HG21	2.01	0.42
1:L:24[D]:LEU:HD11	1:L:68[D]:THR:HG21	2.01	0.42
1:B:188[D]:HIS:CD2	1:B:188[D]:HIS:H	2.37	0.42
1:K:23[D]:TYR:CZ	1:K:27[D]:ILE:HD11	2.55	0.42
1:L:189[A]:MET:O	1:L:190[A]:PHE:HB3	2.19	0.42
1:L:53[A]:SER:HB3	1:L:252[A]:GLN:HE21	1.84	0.42
1:L:34[A]:GLY:HA3	1:L:46[A]:VAL:HG22	2.02	0.42
1:B:188[A]:HIS:CD2	1:B:188[A]:HIS:H	2.37	0.42
1:K:74[C]:ARG:HH21	1:N:70[C]:ARG:HD2	1.85	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:188[C]:HIS:CD2	1:B:188[C]:HIS:H	2.37	0.42
1:N:34[B]:GLY:HA3	1:N:46[B]:VAL:HG22	2.01	0.42
1:B:188[B]:HIS:H	1:B:188[B]:HIS:CD2	2.37	0.42
1:L:269[D]:GLN:HB2	1:L:311[D]:ILE:HD13	2.02	0.42
1:M:70[D]:ARG:HH12	1:M:310[D]:LYS:HD3	1.82	0.42
1:O:157[D]:ILE:HD13	1:O:238[D]:ILE:HG23	2.01	0.42
1:A:109[D]:PHE:O	1:A:112[D]:LYS:HB3	2.20	0.42
1:L:212[A]:LEU:HD23	1:L:213[A]:MET:N	2.35	0.42
1:L:73[A]:LEU:HD21	1:L:302[A]:VAL:HG21	2.01	0.42
1:A:109[A]:PHE:O	1:A:112[A]:LYS:HB3	2.20	0.42
1:H:202[C]:SER:HB3	1:N:275[C]:ARG:CG	2.37	0.42
1:M:34[C]:GLY:HA3	1:M:46[C]:VAL:HG22	2.01	0.42
1:L:216[C]:ARG:HG3	1:L:217[C]:SER:N	2.34	0.42
1:A:109[C]:PHE:O	1:A:112[C]:LYS:HB3	2.20	0.42
1:I:220[B]:LEU:HA	1:I:224[B]:VAL:CG2	2.49	0.42
1:M:34[B]:GLY:HA3	1:M:46[B]:VAL:HG22	2.00	0.42
1:J:215[B]:GLN:HB3	1:J:218[B]:CYS:SG	2.60	0.42
1:A:109[B]:PHE:O	1:A:112[B]:LYS:HB3	2.20	0.42
1:O:50[D]:ALA:CB	1:P:212[D]:LEU:HD12	2.50	0.42
1:L:216[D]:ARG:HG3	1:L:217[D]:SER:N	2.34	0.42
1:A:87[D]:CYS:SG	1:A:92[D]:MET:HG3	2.60	0.42
1:O:53[A]:SER:HB3	1:O:252[A]:GLN:HE21	1.82	0.42
1:K:46[A]:VAL:O	1:K:46[A]:VAL:HG13	2.20	0.42
1:O:216[A]:ARG:HG3	1:O:217[A]:SER:N	2.34	0.42
1:J:24[A]:LEU:HD11	1:J:68[A]:THR:HG21	2.02	0.42
1:P:216[A]:ARG:HG3	1:P:217[A]:SER:N	2.34	0.42
1:A:87[A]:CYS:SG	1:A:92[A]:MET:HG3	2.60	0.42
1:N:220[C]:LEU:HA	1:N:224[C]:VAL:CG2	2.50	0.42
1:A:87[C]:CYS:SG	1:A:92[C]:MET:HG3	2.60	0.42
1:J:24[C]:LEU:HD11	1:J:68[C]:THR:HG21	2.02	0.42
1:P:189[B]:MET:O	1:P:190[B]:PHE:HB3	2.20	0.42
1:K:70[B]:ARG:HH12	1:K:310[B]:LYS:HD3	1.82	0.42
1:A:87[B]:CYS:SG	1:A:92[B]:MET:HG3	2.60	0.42
1:C:74[D]:ARG:NH2	1:F:70[D]:ARG:CD	2.82	0.42
1:A:167[D]:ARG:HD3	1:B:217[D]:SER:OG	2.20	0.42
1:M:189[A]:MET:O	1:M:190[A]:PHE:HB3	2.19	0.42
1:C:74[A]:ARG:NH2	1:F:70[A]:ARG:CD	2.82	0.42
1:A:167[A]:ARG:HD3	1:B:217[A]:SER:OG	2.20	0.42
1:I:70[C]:ARG:HH12	1:I:310[C]:LYS:HD3	1.82	0.42
1:K:70[C]:ARG:HH12	1:K:310[C]:LYS:HD3	1.82	0.42
1:C:74[C]:ARG:NH2	1:F:70[C]:ARG:CD	2.82	0.42
1:A:167[C]:ARG:HD3	1:B:217[C]:SER:OG	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:176[C]:PRO:HD2	1:J:134[C]:PHE:CZ	2.54	0.42
1:P:34[B]:GLY:HA3	1:P:46[B]:VAL:HG22	2.02	0.42
1:C:74[B]:ARG:NH2	1:F:70[B]:ARG:CD	2.82	0.42
1:A:167[B]:ARG:HD3	1:B:217[B]:SER:OG	2.20	0.42
1:N:263[B]:VAL:HG12	1:N:267[B]:LYS:HE3	2.02	0.42
1:J:137[B]:GLU:OE1	1:K:147[B]:GLY:CA	2.68	0.42
1:P:212[D]:LEU:HD23	1:P:213[D]:MET:N	2.34	0.42
1:O:34[D]:GLY:HA3	1:O:46[D]:VAL:HG22	2.02	0.42
1:C:217[D]:SER:HG	1:D:167[D]:ARG:HD3	1.84	0.42
1:J:215[D]:GLN:HB3	1:J:218[D]:CYS:SG	2.60	0.42
1:H:53[D]:SER:HB3	1:H:252[D]:GLN:NE2	2.34	0.42
1:I:147[D]:GLY:CA	1:L:137[D]:GLU:OE1	2.68	0.42
1:J:24[D]:LEU:HD11	1:J:68[D]:THR:HG21	2.02	0.42
1:C:109[D]:PHE:O	1:C:112[D]:LYS:HB3	2.20	0.42
1:K:74[A]:ARG:NH2	1:N:70[A]:ARG:CD	2.83	0.42
1:C:217[A]:SER:HG	1:D:167[A]:ARG:HD3	1.84	0.42
1:H:53[A]:SER:HB3	1:H:252[A]:GLN:NE2	2.34	0.42
1:M:216[A]:ARG:HG3	1:M:217[A]:SER:N	2.34	0.42
1:C:109[A]:PHE:O	1:C:112[A]:LYS:HB3	2.20	0.42
1:P:70[C]:ARG:HH12	1:P:310[C]:LYS:HD3	1.84	0.42
1:C:217[C]:SER:HG	1:D:167[C]:ARG:HD3	1.84	0.42
1:C:109[C]:PHE:O	1:C:112[C]:LYS:HB3	2.20	0.42
1:J:216[C]:ARG:HG3	1:J:217[C]:SER:N	2.35	0.42
1:J:137[C]:GLU:OE1	1:K:147[C]:GLY:CA	2.68	0.42
1:H:53[C]:SER:HB3	1:H:252[C]:GLN:NE2	2.34	0.42
1:J:41[B]:THR:HB	1:J:316[B]:SER:HB3	2.02	0.42
1:M:26[B]:LEU:HD23	1:M:220[B]:LEU:HD21	2.02	0.42
1:C:217[B]:SER:HG	1:D:167[B]:ARG:HD3	1.84	0.42
1:H:53[B]:SER:HB3	1:H:252[B]:GLN:NE2	2.34	0.42
1:C:109[B]:PHE:O	1:C:112[B]:LYS:HB3	2.20	0.42
1:K:214[D]:TYR:CD2	1:L:190[D]:PHE:HZ	2.37	0.41
1:N:34[D]:GLY:HA3	1:N:46[D]:VAL:HG22	2.01	0.41
1:M:130[D]:GLN:HG3	1:M:173[D]:ALA:O	2.20	0.41
1:F:198[D]:PRO:HA	1:F:199[D]:PRO:HD3	1.95	0.41
1:M:46[A]:VAL:O	1:M:46[A]:VAL:HG13	2.20	0.41
1:O:70[A]:ARG:NH1	1:O:310[A]:LYS:HD3	2.35	0.41
1:F:198[A]:PRO:HA	1:F:199[A]:PRO:HD3	1.95	0.41
1:I:24[A]:LEU:HD11	1:I:68[A]:THR:HG21	2.01	0.41
1:M:26[C]:LEU:O	1:M:30[C]:ILE:HG13	2.20	0.41
1:F:198[C]:PRO:HA	1:F:199[C]:PRO:HD3	1.95	0.41
1:N:263[C]:VAL:HG12	1:N:267[C]:LYS:HE3	2.02	0.41
1:M:212[B]:LEU:HD23	1:M:213[B]:MET:N	2.35	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:198[B]:PRO:HA	1:F:199[B]:PRO:HD3	1.95	0.41
1:A:190[D]:PHE:CZ	1:B:214[D]:TYR:CD2	3.06	0.41
1:J:41[D]:THR:HB	1:J:316[D]:SER:HB3	2.02	0.41
1:I:26[D]:LEU:O	1:I:30[D]:ILE:HG13	2.20	0.41
1:A:134[D]:PHE:CE1	1:B:176[D]:PRO:HD2	2.55	0.41
1:M:34[D]:GLY:HA3	1:M:46[D]:VAL:HG22	2.01	0.41
1:I:157[D]:ILE:HD13	1:I:238[D]:ILE:HG23	2.01	0.41
1:O:23[D]:TYR:CZ	1:O:27[D]:ILE:HD11	2.55	0.41
1:K:179[D]:LEU:N	1:K:180[D]:PRO:HD2	2.34	0.41
1:A:190[A]:PHE:CZ	1:B:214[A]:TYR:CD2	3.06	0.41
1:A:134[A]:PHE:CE1	1:B:176[A]:PRO:HD2	2.55	0.41
1:A:190[C]:PHE:CZ	1:B:214[C]:TYR:CD2	3.06	0.41
1:M:212[C]:LEU:HD23	1:M:213[C]:MET:N	2.35	0.41
1:P:212[C]:LEU:HD23	1:P:213[C]:MET:N	2.35	0.41
1:A:134[C]:PHE:CE1	1:B:176[C]:PRO:HD2	2.55	0.41
1:M:26[C]:LEU:HD23	1:M:220[C]:LEU:HD21	2.02	0.41
1:A:190[B]:PHE:CZ	1:B:214[B]:TYR:CD2	3.06	0.41
1:K:212[B]:LEU:HD23	1:K:213[B]:MET:N	2.35	0.41
1:A:134[B]:PHE:CE1	1:B:176[B]:PRO:HD2	2.55	0.41
1:J:24[B]:LEU:HD11	1:J:68[B]:THR:HG21	2.02	0.41
1:I:157[B]:ILE:HD13	1:I:238[B]:ILE:HG23	2.01	0.41
1:I:147[B]:GLY:CA	1:L:137[B]:GLU:OE1	2.68	0.41
1:I:70[D]:ARG:HH12	1:I:310[D]:LYS:HD3	1.82	0.41
1:N:263[D]:VAL:HG12	1:N:267[D]:LYS:HE3	2.03	0.41
1:G:109[D]:PHE:O	1:G:112[D]:LYS:HB3	2.19	0.41
1:P:263[D]:VAL:HG12	1:P:267[D]:LYS:HE3	2.02	0.41
1:L:37[A]:ARG:HA	1:L:38[A]:PRO:HD3	1.89	0.41
1:J:73[A]:LEU:HD21	1:J:302[A]:VAL:HG21	2.02	0.41
1:G:109[A]:PHE:O	1:G:112[A]:LYS:HB3	2.19	0.41
1:I:26[C]:LEU:O	1:I:30[C]:ILE:HG13	2.20	0.41
1:O:34[C]:GLY:HA3	1:O:46[C]:VAL:HG22	2.02	0.41
1:G:109[C]:PHE:O	1:G:112[C]:LYS:HB3	2.19	0.41
1:K:179[C]:LEU:N	1:K:180[C]:PRO:HD2	2.35	0.41
1:O:34[B]:GLY:HA3	1:O:46[B]:VAL:HG22	2.02	0.41
1:N:24[B]:LEU:HD11	1:N:68[B]:THR:HG21	2.01	0.41
1:G:109[B]:PHE:O	1:G:112[B]:LYS:HB3	2.19	0.41
1:K:263[B]:VAL:HG12	1:K:267[B]:LYS:HE3	2.01	0.41
1:K:179[B]:LEU:N	1:K:180[B]:PRO:HD2	2.35	0.41
1:G:107[D]:LYS:HD2	1:G:111[D]:GLU:OE2	2.20	0.41
1:O:190[D]:PHE:HZ	1:P:214[D]:TYR:CD2	2.38	0.41
1:M:214[D]:TYR:CD2	1:N:190[D]:PHE:HZ	2.38	0.41
1:G:212[D]:LEU:HD12	1:H:50[D]:ALA:CB	2.50	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:79[D]:GLU:O	1:A:82[D]:TRP:HB3	2.20	0.41
1:N:23[D]:TYR:CZ	1:N:27[D]:ILE:HD11	2.56	0.41
1:O:263[D]:VAL:HG12	1:O:267[D]:LYS:HE3	2.02	0.41
1:D:188[D]:HIS:H	1:D:188[D]:HIS:CD2	2.38	0.41
1:D:186[D]:PRO:HG3	4:D:1122[D]:HOH:O	2.19	0.41
1:G:107[A]:LYS:HD2	1:G:111[A]:GLU:OE2	2.20	0.41
1:G:212[A]:LEU:HD12	1:H:50[A]:ALA:CB	2.50	0.41
1:A:79[A]:GLU:O	1:A:82[A]:TRP:HB3	2.20	0.41
1:L:216[A]:ARG:HG3	1:L:217[A]:SER:N	2.35	0.41
1:D:188[A]:HIS:CD2	1:D:188[A]:HIS:H	2.38	0.41
1:D:186[A]:PRO:HG3	4:D:1122[A]:HOH:O	2.19	0.41
1:G:107[C]:LYS:HD2	1:G:111[C]:GLU:OE2	2.20	0.41
1:K:214[C]:TYR:CD2	1:L:190[C]:PHE:HZ	2.37	0.41
1:I:212[C]:LEU:HD23	1:I:213[C]:MET:N	2.36	0.41
1:G:212[C]:LEU:HD12	1:H:50[C]:ALA:CB	2.50	0.41
1:A:79[C]:GLU:O	1:A:82[C]:TRP:HB3	2.20	0.41
1:D:188[C]:HIS:CD2	1:D:188[C]:HIS:H	2.38	0.41
1:D:186[C]:PRO:HG3	4:D:1122[C]:HOH:O	2.19	0.41
1:G:107[B]:LYS:HD2	1:G:111[B]:GLU:OE2	2.20	0.41
1:G:212[B]:LEU:HD12	1:H:50[B]:ALA:CB	2.50	0.41
1:M:26[B]:LEU:O	1:M:30[B]:ILE:HG13	2.20	0.41
1:N:220[B]:LEU:HA	1:N:224[B]:VAL:CG2	2.51	0.41
1:P:263[B]:VAL:HG12	1:P:267[B]:LYS:HE3	2.02	0.41
1:D:188[B]:HIS:CD2	1:D:188[B]:HIS:H	2.38	0.41
1:A:79[B]:GLU:O	1:A:82[B]:TRP:HB3	2.20	0.41
1:D:186[B]:PRO:HG3	4:D:1122[B]:HOH:O	2.19	0.41
1:H:198[D]:PRO:HA	1:H:199[D]:PRO:HD3	1.95	0.41
1:P:220[D]:LEU:HA	1:P:224[D]:VAL:CG2	2.51	0.41
1:F:53[D]:SER:HB3	1:F:252[D]:GLN:NE2	2.35	0.41
1:H:198[A]:PRO:HA	1:H:199[A]:PRO:HD3	1.95	0.41
1:N:46[A]:VAL:HG13	1:N:46[A]:VAL:O	2.19	0.41
1:J:34[A]:GLY:HA3	1:J:46[A]:VAL:HG22	2.03	0.41
1:J:216[A]:ARG:HG3	1:J:217[A]:SER:N	2.35	0.41
1:K:73[A]:LEU:HD21	1:K:302[A]:VAL:HG21	2.02	0.41
1:F:53[A]:SER:HB3	1:F:252[A]:GLN:NE2	2.35	0.41
1:H:198[C]:PRO:HA	1:H:199[C]:PRO:HD3	1.95	0.41
1:F:53[C]:SER:HB3	1:F:252[C]:GLN:NE2	2.35	0.41
1:O:23[C]:TYR:CZ	1:O:27[C]:ILE:HD11	2.55	0.41
1:H:198[B]:PRO:HA	1:H:199[B]:PRO:HD3	1.95	0.41
1:L:73[B]:LEU:HD21	1:L:302[B]:VAL:HG21	2.02	0.41
1:F:53[B]:SER:HB3	1:F:252[B]:GLN:NE2	2.35	0.41
1:E:167[D]:ARG:HD3	1:F:217[D]:SER:HG	1.86	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:182[D]:MET:SD	1:C:186[D]:PRO:HD3	2.59	0.41
1:P:198[D]:PRO:HA	1:P:199[D]:PRO:HD3	1.95	0.41
1:M:70[A]:ARG:HH12	1:M:310[A]:LYS:HD3	1.84	0.41
1:J:37[A]:ARG:HA	1:J:38[A]:PRO:HD3	1.89	0.41
1:E:167[A]:ARG:HD3	1:F:217[A]:SER:HG	1.86	0.41
1:C:182[A]:MET:SD	1:C:186[A]:PRO:HD3	2.59	0.41
1:O:190[C]:PHE:HZ	1:P:214[C]:TYR:CD2	2.38	0.41
1:M:262[C]:HIS:C	1:M:265[C]:PRO:HD2	2.41	0.41
1:P:220[C]:LEU:HA	1:P:224[C]:VAL:CG2	2.51	0.41
1:N:34[C]:GLY:HA3	1:N:46[C]:VAL:HG22	2.02	0.41
1:E:167[C]:ARG:HD3	1:F:217[C]:SER:HG	1.86	0.41
1:O:263[C]:VAL:HG12	1:O:267[C]:LYS:HE3	2.02	0.41
1:C:182[C]:MET:SD	1:C:186[C]:PRO:HD3	2.59	0.41
1:I:26[B]:LEU:O	1:I:30[B]:ILE:HG13	2.21	0.41
1:E:167[B]:ARG:HD3	1:F:217[B]:SER:HG	1.86	0.41
1:N:23[B]:TYR:CZ	1:N:27[B]:ILE:HD11	2.56	0.41
1:K:219[B]:ASP:HB2	2:K:450[B]:UMP:O3'	2.20	0.41
1:C:182[B]:MET:SD	1:C:186[B]:PRO:HD3	2.59	0.41
1:N:215[D]:GLN:HB3	1:N:218[D]:CYS:SG	2.60	0.41
1:K:214[A]:TYR:CD2	1:L:190[A]:PHE:HZ	2.37	0.41
1:I:220[C]:LEU:HA	1:I:224[C]:VAL:CG2	2.51	0.41
1:K:34[C]:GLY:HA3	1:K:46[C]:VAL:HG22	2.02	0.41
1:N:179[C]:LEU:N	1:N:180[C]:PRO:HD2	2.35	0.41
1:P:26[B]:LEU:O	1:P:30[B]:ILE:HG13	2.21	0.41
1:P:70[B]:ARG:HH12	1:P:310[B]:LYS:HD3	1.84	0.41
1:F:73[D]:LEU:HD21	1:F:302[D]:VAL:HG21	2.02	0.41
1:M:214[A]:TYR:CD2	1:N:190[A]:PHE:HZ	2.38	0.41
1:P:46[A]:VAL:O	1:P:46[A]:VAL:HG13	2.20	0.41
1:L:26[A]:LEU:O	1:L:30[A]:ILE:HG13	2.21	0.41
1:N:70[A]:ARG:NH1	1:N:310[A]:LYS:HD3	2.35	0.41
1:F:73[A]:LEU:HD21	1:F:302[A]:VAL:HG21	2.02	0.41
1:J:220[C]:LEU:HA	1:J:224[C]:VAL:CG2	2.51	0.41
1:O:70[C]:ARG:HH12	1:O:310[C]:LYS:HD3	1.84	0.41
1:N:23[C]:TYR:CZ	1:N:27[C]:ILE:HD11	2.56	0.41
1:F:73[C]:LEU:HD21	1:F:302[C]:VAL:HG21	2.02	0.41
1:O:220[B]:LEU:HA	1:O:224[B]:VAL:CG2	2.50	0.41
1:I:212[B]:LEU:HD23	1:I:213[B]:MET:N	2.36	0.41
1:P:212[B]:LEU:HD23	1:P:213[B]:MET:N	2.35	0.41
1:F:73[B]:LEU:HD21	1:F:302[B]:VAL:HG21	2.02	0.41
1:J:263[B]:VAL:HG12	1:J:267[B]:LYS:HE3	2.03	0.41
1:P:198[B]:PRO:HA	1:P:199[B]:PRO:HD3	1.95	0.41
1:H:189[D]:MET:O	1:H:190[D]:PHE:HB3	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:220[D]:LEU:HA	1:O:224[D]:VAL:CG2	2.50	0.41
1:I:212[D]:LEU:HD23	1:I:213[D]:MET:N	2.36	0.41
1:H:182[D]:MET:SD	1:H:186[D]:PRO:HD3	2.61	0.41
1:K:34[D]:GLY:HA3	1:K:46[D]:VAL:HG22	2.02	0.41
1:A:200[D]:ALA:C	1:A:202[D]:SER:H	2.24	0.41
1:E:14[D]:SER:HB3	1:E:273[D]:GLU:OE1	2.20	0.41
1:L:263[D]:VAL:HG12	1:L:267[D]:LYS:HE3	2.03	0.41
1:C:79[D]:GLU:O	1:C:82[D]:TRP:HB3	2.21	0.41
1:K:219[D]:ASP:HB2	2:K:450[D]:UMP:O3'	2.20	0.41
1:C:24[D]:LEU:HD11	1:C:68[D]:THR:HG21	2.03	0.41
1:O:179[D]:LEU:N	1:O:180[D]:PRO:HD2	2.35	0.41
1:A:24[D]:LEU:HD11	1:A:68[D]:THR:HG21	2.03	0.41
1:J:263[D]:VAL:HG12	1:J:267[D]:LYS:HE3	2.03	0.41
1:H:189[A]:MET:O	1:H:190[A]:PHE:HB3	2.21	0.41
1:P:34[A]:GLY:HA3	1:P:46[A]:VAL:HG22	2.03	0.41
1:I:34[A]:GLY:HA3	1:I:46[A]:VAL:HG22	2.02	0.41
1:H:182[A]:MET:SD	1:H:186[A]:PRO:HD3	2.61	0.41
1:A:200[A]:ALA:C	1:A:202[A]:SER:H	2.24	0.41
1:C:79[A]:GLU:O	1:C:82[A]:TRP:HB3	2.21	0.41
1:E:14[A]:SER:HB3	1:E:273[A]:GLU:OE1	2.20	0.41
1:K:23[A]:TYR:CZ	1:K:27[A]:ILE:HD11	2.56	0.41
1:P:198[A]:PRO:HA	1:P:199[A]:PRO:HD3	1.95	0.41
1:C:24[A]:LEU:HD11	1:C:68[A]:THR:HG21	2.03	0.41
1:A:24[A]:LEU:HD11	1:A:68[A]:THR:HG21	2.03	0.41
1:N:216[A]:ARG:HG3	1:N:217[A]:SER:N	2.35	0.41
1:H:189[C]:MET:O	1:H:190[C]:PHE:HB3	2.21	0.41
1:H:182[C]:MET:SD	1:H:186[C]:PRO:HD3	2.61	0.41
1:K:220[C]:LEU:HA	1:K:224[C]:VAL:CG2	2.51	0.41
1:A:200[C]:ALA:C	1:A:202[C]:SER:H	2.24	0.41
1:C:79[C]:GLU:O	1:C:82[C]:TRP:HB3	2.21	0.41
1:P:263[C]:VAL:HG12	1:P:267[C]:LYS:HE3	2.03	0.41
1:E:14[C]:SER:HB3	1:E:273[C]:GLU:OE1	2.20	0.41
1:C:24[C]:LEU:HD11	1:C:68[C]:THR:HG21	2.03	0.41
1:A:24[C]:LEU:HD11	1:A:68[C]:THR:HG21	2.03	0.41
1:J:263[C]:VAL:HG12	1:J:267[C]:LYS:HE3	2.03	0.41
1:H:189[B]:MET:O	1:H:190[B]:PHE:HB3	2.21	0.41
1:L:189[B]:MET:O	1:L:190[B]:PHE:HB3	2.21	0.41
1:M:214[B]:TYR:CD2	1:N:190[B]:PHE:HZ	2.38	0.41
1:O:50[B]:ALA:CB	1:P:212[B]:LEU:HD12	2.51	0.41
1:H:182[B]:MET:SD	1:H:186[B]:PRO:HD3	2.61	0.41
1:A:200[B]:ALA:C	1:A:202[B]:SER:H	2.24	0.41
1:C:79[B]:GLU:O	1:C:82[B]:TRP:HB3	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:157[B]:ILE:HD13	1:L:238[B]:ILE:HG23	2.03	0.41
1:C:24[B]:LEU:HD11	1:C:68[B]:THR:HG21	2.03	0.41
1:O:179[B]:LEU:N	1:O:180[B]:PRO:HD2	2.35	0.41
1:E:14[B]:SER:HB3	1:E:273[B]:GLU:OE1	2.20	0.41
1:A:24[B]:LEU:HD11	1:A:68[B]:THR:HG21	2.03	0.41
1:M:212[D]:LEU:HD23	1:M:213[D]:MET:N	2.36	0.41
1:E:185[D]:PRO:HG3	4:E:1428[D]:HOH:O	2.21	0.41
1:F:23[D]:TYR:CZ	1:F:27[D]:ILE:HD11	2.56	0.41
1:L:157[D]:ILE:HD13	1:L:238[D]:ILE:HG23	2.03	0.41
1:D:87[D]:CYS:SG	1:D:92[D]:MET:HG3	2.61	0.41
1:J:26[A]:LEU:O	1:J:30[A]:ILE:HG13	2.21	0.41
1:K:70[A]:ARG:HH12	1:K:310[A]:LYS:HD3	1.85	0.41
1:E:185[A]:PRO:HG3	4:E:1428[A]:HOH:O	2.21	0.41
1:F:23[A]:TYR:CZ	1:F:27[A]:ILE:HD11	2.56	0.41
1:D:87[A]:CYS:SG	1:D:92[A]:MET:HG3	2.61	0.41
1:M:214[C]:TYR:CD2	1:N:190[C]:PHE:HZ	2.39	0.41
1:P:26[C]:LEU:O	1:P:30[C]:ILE:HG13	2.21	0.41
1:E:185[C]:PRO:HG3	4:E:1428[C]:HOH:O	2.21	0.41
1:F:23[C]:TYR:CZ	1:F:27[C]:ILE:HD11	2.56	0.41
1:D:87[C]:CYS:SG	1:D:92[C]:MET:HG3	2.61	0.41
1:P:179[C]:LEU:N	1:P:180[C]:PRO:HD2	2.36	0.41
1:O:190[B]:PHE:HZ	1:P:214[B]:TYR:CD2	2.39	0.41
1:F:23[B]:TYR:CZ	1:F:27[B]:ILE:HD11	2.56	0.41
1:D:87[B]:CYS:SG	1:D:92[B]:MET:HG3	2.61	0.41
1:I:263[B]:VAL:HG12	1:I:267[B]:LYS:HE3	2.02	0.41
1:E:185[B]:PRO:HG3	4:E:1428[B]:HOH:O	2.21	0.41
1:K:212[D]:LEU:HD23	1:K:213[D]:MET:N	2.36	0.40
1:F:37[D]:ARG:HA	1:F:38[D]:PRO:HD3	1.90	0.40
1:L:37[D]:ARG:HA	1:L:38[D]:PRO:HD3	1.88	0.40
1:K:157[D]:ILE:HD13	1:K:238[D]:ILE:HG23	2.03	0.40
1:O:190[A]:PHE:HZ	1:P:214[A]:TYR:CD2	2.39	0.40
1:K:190[A]:PHE:CZ	1:L:214[A]:TYR:CD2	3.09	0.40
1:F:37[A]:ARG:HA	1:F:38[A]:PRO:HD3	1.90	0.40
1:N:24[A]:LEU:HD11	1:N:68[A]:THR:HG21	2.02	0.40
1:F:37[C]:ARG:HA	1:F:38[C]:PRO:HD3	1.90	0.40
1:L:157[C]:ILE:HD13	1:L:238[C]:ILE:HG23	2.03	0.40
1:F:37[B]:ARG:HA	1:F:38[B]:PRO:HD3	1.90	0.40
1:K:34[B]:GLY:HA3	1:K:46[B]:VAL:HG22	2.03	0.40
1:N:220[D]:LEU:HA	1:N:224[D]:VAL:CG2	2.52	0.40
1:N:198[D]:PRO:HA	1:N:199[D]:PRO:HD3	1.95	0.40
1:P:179[D]:LEU:N	1:P:180[D]:PRO:HD2	2.36	0.40
1:N:26[A]:LEU:O	1:N:30[A]:ILE:HG13	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:34[A]:GLY:HA3	1:M:46[A]:VAL:HG22	2.03	0.40
1:P:37[A]:ARG:HA	1:P:38[A]:PRO:HD3	1.89	0.40
1:L:70[A]:ARG:NH1	1:L:310[A]:LYS:HD3	2.36	0.40
1:P:53[C]:SER:HB3	1:P:252[C]:GLN:HE21	1.85	0.40
1:N:262[C]:HIS:C	1:N:265[C]:PRO:HD2	2.41	0.40
1:L:73[C]:LEU:HD21	1:L:302[C]:VAL:HG21	2.02	0.40
1:I:263[C]:VAL:HG12	1:I:267[C]:LYS:HE3	2.02	0.40
1:O:179[C]:LEU:N	1:O:180[C]:PRO:HD2	2.36	0.40
1:P:198[C]:PRO:HA	1:P:199[C]:PRO:HD3	1.95	0.40
1:P:53[B]:SER:HB3	1:P:252[B]:GLN:HE21	1.85	0.40
1:J:37[B]:ARG:HA	1:J:38[B]:PRO:HD3	1.89	0.40
1:N:179[B]:LEU:N	1:N:180[B]:PRO:HD2	2.35	0.40
1:O:23[B]:TYR:CZ	1:O:27[B]:ILE:HD11	2.56	0.40
1:K:118[D]:ARG:NH1	1:K:124[D]:GLY:HA3	2.37	0.40
1:D:37[D]:ARG:HA	1:D:38[D]:PRO:HD3	1.94	0.40
1:J:41[A]:THR:HB	1:J:316[A]:SER:HB3	2.04	0.40
1:D:37[A]:ARG:HA	1:D:38[A]:PRO:HD3	1.94	0.40
1:N:23[A]:TYR:CZ	1:N:27[A]:ILE:HD11	2.57	0.40
1:D:37[C]:ARG:HA	1:D:38[C]:PRO:HD3	1.94	0.40
1:O:50[C]:ALA:CB	1:P:212[C]:LEU:HD12	2.51	0.40
1:L:37[C]:ARG:HA	1:L:38[C]:PRO:HD3	1.89	0.40
1:K:214[B]:TYR:CD2	1:L:190[B]:PHE:HZ	2.38	0.40
1:D:37[B]:ARG:HA	1:D:38[B]:PRO:HD3	1.94	0.40
1:P:179[B]:LEU:N	1:P:180[B]:PRO:HD2	2.36	0.40
1:E:214[D]:TYR:CD2	1:F:190[D]:PHE:HZ	2.39	0.40
1:M:262[D]:HIS:C	1:M:265[D]:PRO:HD2	2.42	0.40
1:D:23[D]:TYR:CZ	1:D:27[D]:ILE:HD11	2.56	0.40
1:C:155[D]:ARG:NH2	4:C:1568[D]:HOH:O	2.51	0.40
1:B:24[D]:LEU:HD11	1:B:68[D]:THR:HG21	2.04	0.40
1:P:188[D]:HIS:CD2	1:P:188[D]:HIS:H	2.39	0.40
1:E:214[A]:TYR:CD2	1:F:190[A]:PHE:HZ	2.39	0.40
1:D:23[A]:TYR:CZ	1:D:27[A]:ILE:HD11	2.56	0.40
1:P:73[A]:LEU:HD21	1:P:302[A]:VAL:HG21	2.03	0.40
1:C:155[A]:ARG:NH2	4:C:1568[A]:HOH:O	2.51	0.40
1:B:24[A]:LEU:HD11	1:B:68[A]:THR:HG21	2.04	0.40
1:E:214[C]:TYR:CD2	1:F:190[C]:PHE:HZ	2.39	0.40
1:J:37[C]:ARG:HA	1:J:38[C]:PRO:HD3	1.89	0.40
1:D:23[C]:TYR:CZ	1:D:27[C]:ILE:HD11	2.56	0.40
1:O:208[C]:LYS:HB3	1:O:247[C]:HIS:HB2	2.04	0.40
1:N:24[C]:LEU:HD11	1:N:68[C]:THR:HG21	2.03	0.40
1:C:155[C]:ARG:NH2	4:C:1568[C]:HOH:O	2.51	0.40
1:B:24[C]:LEU:HD11	1:B:68[C]:THR:HG21	2.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:179[C]:LEU:N	1:I:180[C]:PRO:HD2	2.36	0.40
1:K:157[C]:ILE:HD13	1:K:238[C]:ILE:HG23	2.03	0.40
1:K:219[C]:ASP:HB2	2:K:450[C]:UMP:O3'	2.21	0.40
1:E:214[B]:TYR:CD2	1:F:190[B]:PHE:HZ	2.39	0.40
1:M:262[B]:HIS:C	1:M:265[B]:PRO:HD2	2.42	0.40
1:P:220[B]:LEU:HA	1:P:224[B]:VAL:CG2	2.52	0.40
1:N:262[B]:HIS:C	1:N:265[B]:PRO:HD2	2.41	0.40
1:J:220[B]:LEU:HA	1:J:224[B]:VAL:CG2	2.52	0.40
1:D:23[B]:TYR:CZ	1:D:27[B]:ILE:HD11	2.56	0.40
1:O:208[B]:LYS:HB3	1:O:247[B]:HIS:HB2	2.04	0.40
1:C:155[B]:ARG:NH2	4:C:1568[B]:HOH:O	2.51	0.40
1:B:24[B]:LEU:HD11	1:B:68[B]:THR:HG21	2.04	0.40
1:N:215[B]:GLN:HB3	1:N:218[B]:CYS:SG	2.61	0.40
1:I:118[D]:ARG:NH1	1:I:124[D]:GLY:HA3	2.37	0.40
1:P:26[D]:LEU:O	1:P:30[D]:ILE:HG13	2.22	0.40
1:L:220[D]:LEU:HA	1:L:224[D]:VAL:CG2	2.52	0.40
1:K:220[D]:LEU:HA	1:K:224[D]:VAL:CG2	2.51	0.40
1:E:188[D]:HIS:CD2	1:E:188[D]:HIS:H	2.39	0.40
1:O:198[D]:PRO:HA	1:O:199[D]:PRO:HD3	1.95	0.40
1:G:167[D]:ARG:HD3	1:H:217[D]:SER:OG	2.22	0.40
1:N:55[A]:ARG:NE	1:N:248[A]:GLU:OE1	2.55	0.40
1:J:26[A]:LEU:HD23	1:J:220[A]:LEU:HD21	2.03	0.40
1:O:34[A]:GLY:HA3	1:O:46[A]:VAL:HG22	2.03	0.40
1:N:198[A]:PRO:HA	1:N:199[A]:PRO:HD3	1.96	0.40
1:E:188[A]:HIS:H	1:E:188[A]:HIS:CD2	2.39	0.40
1:G:167[A]:ARG:HD3	1:H:217[A]:SER:OG	2.22	0.40
1:E:188[C]:HIS:CD2	1:E:188[C]:HIS:H	2.39	0.40
1:G:167[C]:ARG:HD3	1:H:217[C]:SER:OG	2.22	0.40
1:M:44[B]:GLY:HA3	1:M:260[B]:ARG:HH11	1.86	0.40
1:K:118[B]:ARG:NH1	1:K:124[B]:GLY:HA3	2.37	0.40
1:L:220[B]:LEU:HA	1:L:224[B]:VAL:CG2	2.52	0.40
1:K:263[B]:VAL:O	1:K:267[B]:LYS:HG3	2.22	0.40
1:L:263[B]:VAL:HG12	1:L:267[B]:LYS:HE3	2.04	0.40
1:M:130[B]:GLN:HG3	1:M:173[B]:ALA:O	2.22	0.40
1:E:188[B]:HIS:CD2	1:E:188[B]:HIS:H	2.39	0.40
1:G:167[B]:ARG:HD3	1:H:217[B]:SER:OG	2.22	0.40

All (2494) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:154[C]:GLN:CA	1:P:145[C]:TYR:OH[2_855]	0.11	2.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:162[C]:ASN:ND2	1:P:89[C]:ASP:CA[2_855]	0.20	2.00
1:O:169[C]:ILE:CD1	1:P:118[C]:ARG:CA[2_855]	0.23	1.97
1:O:134[C]:PHE:C	1:P:177[C]:LYS:NZ[2_855]	0.29	1.91
1:N:113[A]:VAL:CA	2:N:600[A]:UMP:OP2[2_756]	0.32	1.88
1:P:39[D]:ASP:CB	1:P:108[D]:GLU:CA[2_855]	0.33	1.87
1:M:293[B]:ASP:OD2	1:N:144[B]:ASP:CG[2_756]	0.34	1.86
1:P:39[C]:ASP:N	1:P:108[C]:GLU:CB[2_855]	0.34	1.86
1:O:152[D]:GLN:C	1:P:139[D]:THR:N[2_855]	0.36	1.84
1:O:159[D]:THR:OG1	1:P:122[D]:ASP:OD1[2_855]	0.37	1.83
1:M:167[B]:ARG:NE	1:N:111[B]:GLU:CB[2_756]	0.38	1.82
1:O:242[D]:THR:CG2	1:P:142[D]:ASP:OD1[2_855]	0.39	1.81
1:M:149[B]:GLY:CA	1:N:135[B]:GLY:O[2_756]	0.42	1.78
1:O:164[D]:PRO:C	1:P:120[D]:GLU:N[2_855]	0.42	1.78
1:M:131[A]:TRP:CA	1:N:137[A]:GLU:CD[2_756]	0.43	1.77
1:M:156[A]:VAL:CG2	1:N:139[A]:THR:O[2_756]	0.43	1.77
1:M:167[B]:ARG:CD	1:N:111[B]:GLU:CG[2_756]	0.44	1.76
1:O:147[D]:GLY:CA	1:P:149[D]:GLY:C[2_855]	0.47	1.73
1:M:147[B]:GLY:C	1:N:149[B]:GLY:CA[2_756]	0.48	1.72
1:F:201[A]:ASP:OD1	1:P:273[A]:GLU:OE2[1_455]	0.49	1.71
1:M:152[A]:GLN:C	1:N:138[A]:TYR:C[2_756]	0.49	1.71
1:O:136[D]:ALA:CB	1:O:177[D]:LYS:NZ[2_855]	0.49	1.71
1:O:151[C]:ASP:OD2	1:P:137[C]:GLU:O[2_855]	0.50	1.70
1:O:168[D]:ARG:CG	1:P:115[D]:LEU:CG[2_855]	0.50	1.70
1:N:113[A]:VAL:N	2:N:600[A]:UMP:P[2_756]	0.52	1.68
1:N:114[A]:GLY:CA	1:N:216[A]:ARG:NH1[2_756]	0.52	1.68
1:O:154[C]:GLN:CB	1:P:145[C]:TYR:CZ[2_855]	0.52	1.68
1:O:154[C]:GLN:CG	1:P:145[C]:TYR:CE2[2_855]	0.52	1.68
1:O:131[D]:TRP:N	1:P:137[D]:GLU:OE1[2_855]	0.52	1.68
1:P:179[D]:LEU:CA	1:P:180[D]:PRO:N[2_855]	0.52	1.68
1:M:169[A]:ILE:CG1	1:N:118[A]:ARG:CB[2_756]	0.53	1.67
1:N:179[A]:LEU:CB	1:N:180[A]:PRO:N[2_756]	0.53	1.67
1:O:157[C]:ILE:CG2	1:P:142[C]:ASP:N[2_855]	0.53	1.67
1:O:152[D]:GLN:CA	1:P:138[D]:TYR:C[2_855]	0.53	1.67
1:M:162[A]:ASN:CB	1:N:90[A]:ALA:N[2_756]	0.54	1.66
1:M:156[B]:VAL:CA	1:N:140[B]:ASP:CB[2_756]	0.54	1.66
1:M:157[B]:ILE:CB	1:N:142[B]:ASP:CA[2_756]	0.54	1.66
1:O:152[D]:GLN:CB	1:P:138[D]:TYR:O[2_855]	0.54	1.66
1:M:162[A]:ASN:CG	1:N:89[A]:ASP:C[2_756]	0.55	1.65
1:M:155[B]:ARG:NH2	1:N:124[B]:GLY:C[2_756]	0.55	1.65
1:M:168[B]:ARG:NH1	1:N:113[B]:VAL:CG2[2_756]	0.55	1.65
1:M:152[A]:GLN:N	1:N:138[A]:TYR:N[2_756]	0.56	1.64
1:M:155[A]:ARG:CA	1:N:138[A]:TYR:CE1[2_756]	0.56	1.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:160[D]:ILE:C	1:P:119[D]:ARG:NE[2_855]	0.56	1.64
1:M:159[B]:THR:OG1	1:N:122[B]:ASP:CG[2_756]	0.57	1.63
1:M:164[A]:PRO:N	1:N:120[A]:GLU:C[2_756]	0.58	1.62
1:M:293[A]:ASP:CB	1:N:144[A]:ASP:OD2[2_756]	0.58	1.62
1:M:153[B]:LEU:CA	1:N:139[B]:THR:OG1[2_756]	0.58	1.62
1:O:151[C]:ASP:C	1:P:138[C]:TYR:N[2_855]	0.58	1.62
1:O:156[D]:VAL:CA	1:P:140[D]:ASP:CA[2_855]	0.58	1.62
1:O:163[D]:ASN:CA	1:P:121[D]:GLY:CA[2_855]	0.58	1.62
1:O:167[D]:ARG:C	1:P:115[D]:LEU:C[2_855]	0.58	1.62
1:N:112[A]:LYS:C	2:N:600[A]:UMP:O5'[2_756]	0.59	1.61
1:O:152[C]:GLN:C	1:P:138[C]:TYR:O[2_855]	0.59	1.61
1:O:159[D]:THR:CB	1:P:122[D]:ASP:CG[2_855]	0.59	1.61
1:P:112[D]:LYS:NZ	1:P:317[D]:ALA:OXT[2_855]	0.59	1.61
1:M:157[A]:ILE:N	1:N:140[A]:ASP:C[2_756]	0.60	1.60
1:P:39[D]:ASP:OD1	1:P:108[D]:GLU:CG[2_855]	0.60	1.60
1:N:177[B]:LYS:O	1:N:178[B]:ASP:N[2_756]	0.61	1.59
1:P:40[D]:ARG:N	1:P:109[D]:PHE:N[2_855]	0.62	1.58
1:M:168[A]:ARG:CB	1:N:115[A]:LEU:CD2[2_756]	0.63	1.57
1:N:179[A]:LEU:CD2	1:N:180[A]:PRO:CB[2_756]	0.63	1.57
1:O:154[D]:GLN:CB	1:P:145[D]:TYR:CE2[2_855]	0.63	1.57
1:M:156[B]:VAL:N	1:N:140[B]:ASP:CA[2_756]	0.64	1.56
1:M:168[B]:ARG:CD	1:N:115[B]:LEU:CB[2_756]	0.64	1.56
1:O:168[C]:ARG:N	1:P:115[C]:LEU:CA[2_855]	0.64	1.56
1:O:154[D]:GLN:NE2	1:P:143[D]:GLY:O[2_855]	0.64	1.56
1:N:179[B]:LEU:C	1:N:180[B]:PRO:N[2_756]	0.65	1.55
1:O:159[C]:THR:C	1:P:122[C]:ASP:CB[2_855]	0.65	1.55
1:M:130[B]:GLN:C	1:N:137[B]:GLU:OE1[2_756]	0.66	1.54
1:O:162[C]:ASN:C	1:P:121[C]:GLY:CA[2_855]	0.66	1.54
1:P:179[D]:LEU:N	1:P:180[D]:PRO:CD[2_855]	0.66	1.54
1:M:154[A]:GLN:N	1:N:145[A]:TYR:OH[2_756]	0.67	1.53
1:M:155[A]:ARG:CD	1:N:124[A]:GLY:C[2_756]	0.67	1.53
1:M:193[A]:PHE:O	1:N:117[A]:HIS:O[2_756]	0.67	1.53
1:M:292[A]:ILE:CG2	1:N:144[A]:ASP:N[2_756]	0.67	1.53
1:N:112[B]:LYS:NZ	1:N:317[B]:ALA:OXT[2_756]	0.67	1.53
1:O:155[C]:ARG:CZ	1:P:125[C]:PRO:N[2_855]	0.68	1.52
1:O:131[D]:TRP:CA	1:P:137[D]:GLU:CD[2_855]	0.68	1.52
1:M:152[B]:GLN:CA	1:N:138[B]:TYR:C[2_756]	0.69	1.51
1:M:160[B]:ILE:C	1:N:119[B]:ARG:NE[2_756]	0.69	1.51
1:N:112[B]:LYS:CE	1:N:317[B]:ALA:C[2_756]	0.69	1.51
1:O:155[C]:ARG:NE	1:P:125[C]:PRO:N[2_855]	0.70	1.50
1:O:131[C]:TRP:C	1:P:137[C]:GLU:CD[2_855]	0.71	1.49
1:O:293[D]:ASP:CB	1:P:144[D]:ASP:OD2[2_855]	0.71	1.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:155[A]:ARG:O	1:N:138[A]:TYR:OH[2_756]	0.72	1.48
1:M:167[A]:ARG:C	1:N:115[A]:LEU:CA[2_756]	0.72	1.48
1:M:152[B]:GLN:CA	1:N:139[B]:THR:N[2_756]	0.72	1.48
1:O:167[D]:ARG:NE	1:P:111[D]:GLU:CA[2_855]	0.72	1.48
1:P:40[D]:ARG:CA	1:P:109[D]:PHE:CB[2_855]	0.73	1.47
1:M:131[A]:TRP:C	1:N:137[A]:GLU:CG[2_756]	0.74	1.46
1:M:167[A]:ARG:CD	1:N:111[A]:GLU:CA[2_756]	0.74	1.46
1:M:154[B]:GLN:NE2	1:N:143[B]:GLY:O[2_756]	0.74	1.46
1:M:163[B]:ASN:CB	1:N:121[B]:GLY:CA[2_756]	0.74	1.46
1:M:293[B]:ASP:CG	1:N:144[B]:ASP:OD2[2_756]	0.74	1.46
1:O:165[C]:THR:OG1	1:P:107[C]:LYS:CA[2_855]	0.74	1.46
1:O:167[C]:ARG:CA	1:P:116[C]:GLY:N[2_855]	0.74	1.46
1:P:114[D]:GLY:C	1:P:216[D]:ARG:NH1[2_855]	0.74	1.46
1:M:150[B]:VAL:O	1:N:137[B]:GLU:CA[2_756]	0.75	1.45
1:O:164[C]:PRO:CA	1:P:120[C]:GLU:N[2_855]	0.75	1.45
1:O:162[D]:ASN:N	1:P:89[D]:ASP:OD2[2_855]	0.75	1.45
1:M:155[B]:ARG:C	1:N:140[B]:ASP:C[2_756]	0.76	1.44
1:M:155[B]:ARG:CD	1:N:138[B]:TYR:OH[2_756]	0.76	1.44
1:O:157[D]:ILE:CA	1:P:142[D]:ASP:N[2_855]	0.76	1.44
1:O:153[C]:LEU:CB	1:P:139[C]:THR:CG2[2_855]	0.77	1.43
1:O:155[C]:ARG:CB	1:P:138[C]:TYR:CD2[2_855]	0.77	1.43
1:O:164[C]:PRO:CD	1:P:120[C]:GLU:C[2_855]	0.77	1.43
1:P:113[C]:VAL:N	2:P:700[C]:UMP:OP3[2_855]	0.77	1.43
1:O:164[D]:PRO:N	1:P:120[D]:GLU:O[2_855]	0.77	1.43
1:M:162[A]:ASN:N	1:N:89[A]:ASP:OD2[2_756]	0.78	1.42
1:N:114[B]:GLY:CA	1:N:216[B]:ARG:NH2[2_756]	0.78	1.42
1:O:293[C]:ASP:OD2	1:P:144[C]:ASP:O[2_855]	0.78	1.42
1:M:147[A]:GLY:CA	1:N:150[A]:VAL:N[2_756]	0.79	1.41
1:M:132[B]:ARG:NH2	1:N:144[B]:ASP:O[2_756]	0.79	1.41
1:N:40[B]:ARG:N	1:N:109[B]:PHE:N[2_756]	0.79	1.41
1:N:40[B]:ARG:CB	1:N:109[B]:PHE:CA[2_756]	0.79	1.41
1:O:131[C]:TRP:O	1:P:137[C]:GLU:CG[2_855]	0.79	1.41
1:O:155[C]:ARG:NH1	1:P:125[C]:PRO:CA[2_855]	0.79	1.41
1:O:161[C]:LYS:CG	1:P:119[C]:ARG:NH1[2_855]	0.79	1.41
1:O:131[D]:TRP:CA	1:P:137[D]:GLU:OE2[2_855]	0.79	1.41
1:M:161[A]:LYS:CB	1:N:89[A]:ASP:OD1[2_756]	0.80	1.40
1:M:167[A]:ARG:NE	1:N:111[A]:GLU:C[2_756]	0.80	1.40
1:O:155[C]:ARG:NH1	1:P:125[C]:PRO:C[2_855]	0.80	1.40
1:M:131[A]:TRP:CB	1:N:137[A]:GLU:OE2[2_756]	0.81	1.39
1:M:155[A]:ARG:NH1	1:N:125[A]:PRO:C[2_756]	0.81	1.39
1:M:167[A]:ARG:C	1:N:115[A]:LEU:C[2_756]	0.81	1.39
1:O:164[C]:PRO:CA	1:P:119[C]:ARG:C[2_855]	0.81	1.39

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:152[D]:GLN:N	1:P:138[D]:TYR:N[2_855]	0.81	1.39
1:P:114[D]:GLY:C	1:P:216[D]:ARG:CZ[2_855]	0.81	1.39
1:N:40[A]:ARG:N	1:N:109[A]:PHE:CA[2_756]	0.82	1.38
1:M:149[B]:GLY:N	1:N:135[B]:GLY:C[2_756]	0.82	1.38
1:M:162[B]:ASN:CB	1:N:89[B]:ASP:OD2[2_756]	0.82	1.38
1:M:166[B]:ASP:O	1:N:118[B]:ARG:O[2_756]	0.82	1.38
1:O:157[C]:ILE:N	1:P:140[C]:ASP:CA[2_855]	0.82	1.38
1:O:169[C]:ILE:C	1:P:117[C]:HIS:CE1[2_855]	0.82	1.38
1:O:155[D]:ARG:NH2	1:P:125[D]:PRO:N[2_855]	0.82	1.38
1:M:165[A]:THR:OG1	1:N:107[A]:LYS:N[2_756]	0.83	1.37
1:M:167[A]:ARG:CD	1:N:111[A]:GLU:CB[2_756]	0.83	1.37
1:N:39[B]:ASP:CA	1:N:108[B]:GLU:N[2_756]	0.83	1.37
1:O:165[C]:THR:CG2	1:P:107[C]:LYS:CB[2_855]	0.83	1.37
1:O:293[D]:ASP:CG	1:P:144[D]:ASP:OD2[2_855]	0.83	1.37
1:M:155[A]:ARG:C	1:N:138[A]:TYR:CZ[2_756]	0.84	1.36
1:N:179[B]:LEU:CB	1:N:181[B]:LEU:N[2_756]	0.84	1.36
1:O:157[D]:ILE:CB	1:P:142[D]:ASP:CA[2_855]	0.84	1.36
1:M:146[B]:LYS:CG	1:N:147[B]:GLY:O[2_756]	0.85	1.35
1:M:151[B]:ASP:OD1	1:N:145[B]:TYR:CD1[2_756]	0.85	1.35
1:O:158[C]:ASP:N	1:P:141[C]:ALA:CA[2_855]	0.85	1.35
1:M:154[A]:GLN:CB	1:N:145[A]:TYR:CE2[2_756]	0.86	1.34
1:M:155[A]:ARG:CA	1:N:138[A]:TYR:CZ[2_756]	0.86	1.34
1:M:158[A]:ASP:N	1:N:141[A]:ALA:CA[2_756]	0.86	1.34
1:M:163[A]:ASN:N	1:N:121[A]:GLY:CA[2_756]	0.86	1.34
1:N:112[A]:LYS:O	2:N:600[A]:UMP:C5'[2_756]	0.86	1.34
1:M:155[B]:ARG:CG	1:N:138[B]:TYR:CZ[2_756]	0.86	1.34
1:M:152[B]:GLN:C	1:N:139[B]:THR:N[2_756]	0.87	1.33
1:N:40[B]:ARG:CB	1:N:109[B]:PHE:C[2_756]	0.87	1.33
1:O:132[C]:ARG:CA	1:P:137[C]:GLU:CB[2_855]	0.87	1.33
1:O:155[C]:ARG:CA	1:P:138[C]:TYR:CE2[2_855]	0.87	1.33
1:O:167[D]:ARG:CD	1:P:111[D]:GLU:CB[2_855]	0.87	1.33
1:M:164[A]:PRO:CD	1:N:120[A]:GLU:O[2_756]	0.88	1.32
1:M:159[B]:THR:OG1	1:N:122[B]:ASP:OD1[2_756]	0.88	1.32
1:M:159[B]:THR:CG2	1:N:122[B]:ASP:CB[2_756]	0.88	1.32
1:O:152[C]:GLN:C	1:P:138[C]:TYR:C[2_855]	0.88	1.32
1:P:39[C]:ASP:CA	1:P:108[C]:GLU:CA[2_855]	0.88	1.32
1:O:157[D]:ILE:CG2	1:P:142[D]:ASP:CA[2_855]	0.88	1.32
1:P:39[D]:ASP:CG	1:P:108[D]:GLU:CG[2_855]	0.88	1.32
1:P:114[D]:GLY:O	1:P:216[D]:ARG:NE[2_855]	0.88	1.32
1:M:242[A]:THR:CG2	1:N:142[A]:ASP:OD1[2_756]	0.89	1.31
1:M:163[B]:ASN:C	1:N:120[B]:GLU:C[2_756]	0.89	1.31
1:M:163[B]:ASN:CB	1:N:121[B]:GLY:N[2_756]	0.89	1.31

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:151[C]:ASP:O	1:P:138[C]:TYR:CA[2_855]	0.89	1.31
1:M:157[A]:ILE:C	1:N:141[A]:ALA:CA[2_756]	0.90	1.30
1:M:163[A]:ASN:CA	1:N:121[A]:GLY:CA[2_756]	0.90	1.30
1:M:155[B]:ARG:CG	1:N:138[B]:TYR:CE2[2_756]	0.90	1.30
1:O:152[D]:GLN:N	1:P:138[D]:TYR:CA[2_855]	0.90	1.30
1:O:159[D]:THR:CG2	1:P:122[D]:ASP:CB[2_855]	0.90	1.30
1:F:201[A]:ASP:OD1	1:P:273[A]:GLU:CD[1_455]	0.91	1.29
1:F:201[A]:ASP:OD2	1:P:273[A]:GLU:CG[1_455]	0.91	1.29
1:N:112[A]:LYS:O	2:N:600[A]:UMP:O5'[2_756]	0.91	1.29
1:N:176[A]:PRO:C	1:N:177[A]:LYS:O[2_756]	0.91	1.29
1:M:151[B]:ASP:CG	1:N:145[B]:TYR:CD1[2_756]	0.91	1.29
1:M:168[B]:ARG:CG	1:N:115[B]:LEU:CB[2_756]	0.91	1.29
1:N:114[B]:GLY:C	1:N:216[B]:ARG:CZ[2_756]	0.91	1.29
1:O:147[C]:GLY:O	1:P:134[C]:PHE:O[2_855]	0.91	1.29
1:O:169[C]:ILE:C	1:P:117[C]:HIS:ND1[2_855]	0.91	1.29
1:M:169[A]:ILE:C	1:N:117[A]:HIS:CE1[2_756]	0.92	1.28
1:M:169[A]:ILE:O	1:N:117[A]:HIS:ND1[2_756]	0.92	1.28
1:O:159[C]:THR:CA	1:P:122[C]:ASP:CG[2_855]	0.92	1.28
1:O:151[D]:ASP:OD1	1:P:145[D]:TYR:CD1[2_855]	0.92	1.28
1:M:154[A]:GLN:CA	1:N:145[A]:TYR:CZ[2_756]	0.93	1.27
1:M:163[A]:ASN:OD1	1:N:105[A]:GLY:C[2_756]	0.93	1.27
1:M:156[B]:VAL:N	1:N:140[B]:ASP:C[2_756]	0.93	1.27
1:N:114[B]:GLY:O	1:N:216[B]:ARG:CZ[2_756]	0.93	1.27
1:O:168[C]:ARG:CB	1:P:115[C]:LEU:CD2[2_855]	0.93	1.27
1:O:164[D]:PRO:CD	1:P:120[D]:GLU:O[2_855]	0.93	1.27
1:P:40[D]:ARG:CG	1:P:109[D]:PHE:CG[2_855]	0.93	1.27
1:M:159[A]:THR:CG2	1:N:122[A]:ASP:O[2_756]	0.94	1.26
1:O:159[C]:THR:CA	1:P:122[C]:ASP:CB[2_855]	0.94	1.26
1:O:163[C]:ASN:OD1	1:P:105[C]:GLY:O[2_855]	0.94	1.26
1:O:165[C]:THR:CB	1:P:107[C]:LYS:CA[2_855]	0.94	1.26
1:O:165[C]:THR:OG1	1:P:107[C]:LYS:N[2_855]	0.94	1.26
1:O:157[D]:ILE:CB	1:P:142[D]:ASP:N[2_855]	0.94	1.26
1:M:157[A]:ILE:CG1	1:N:143[A]:GLY:N[2_756]	0.95	1.25
1:M:147[B]:GLY:N	1:N:149[B]:GLY:N[2_756]	0.95	1.25
1:O:168[D]:ARG:NH1	1:P:113[D]:VAL:CB[2_855]	0.95	1.25
1:P:179[D]:LEU:CA	1:P:180[D]:PRO:CD[2_855]	0.95	1.25
1:M:157[A]:ILE:N	1:N:141[A]:ALA:N[2_756]	0.96	1.24
1:M:161[A]:LYS:C	1:N:89[A]:ASP:OD2[2_756]	0.96	1.24
1:M:162[A]:ASN:CG	1:N:89[A]:ASP:O[2_756]	0.96	1.24
1:M:293[A]:ASP:CA	1:N:144[A]:ASP:OD2[2_756]	0.96	1.24
1:M:163[B]:ASN:C	1:N:120[B]:GLU:O[2_756]	0.96	1.24
1:N:39[B]:ASP:CB	1:N:108[B]:GLU:CA[2_756]	0.96	1.24

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:158[D]:ASP:N	1:P:141[D]:ALA:CA[2_855]	0.96	1.24
1:O:162[D]:ASN:CA	1:P:89[D]:ASP:OD2[2_855]	0.96	1.24
1:O:163[D]:ASN:C	1:P:120[D]:GLU:C[2_855]	0.96	1.24
1:M:163[A]:ASN:N	1:N:121[A]:GLY:C[2_756]	0.97	1.23
1:M:168[A]:ARG:N	1:N:115[A]:LEU:CB[2_756]	0.97	1.23
1:M:155[B]:ARG:N	1:N:140[B]:ASP:O[2_756]	0.97	1.23
1:M:155[B]:ARG:NH2	1:N:125[B]:PRO:N[2_756]	0.97	1.23
1:O:151[C]:ASP:O	1:P:138[C]:TYR:CB[2_855]	0.97	1.23
1:M:157[A]:ILE:CB	1:N:142[A]:ASP:N[2_756]	0.98	1.22
1:M:242[A]:THR:CG2	1:N:142[A]:ASP:CG[2_756]	0.98	1.22
1:M:130[B]:GLN:O	1:N:137[B]:GLU:CD[2_756]	0.98	1.22
1:N:111[B]:GLU:O	2:N:600[B]:UMP:O5'[2_756]	0.98	1.22
1:N:114[B]:GLY:O	1:N:216[B]:ARG:NE[2_756]	0.98	1.22
1:O:167[C]:ARG:NE	1:P:111[C]:GLU:C[2_855]	0.98	1.22
1:O:163[D]:ASN:OD1	1:P:105[D]:GLY:O[2_855]	0.98	1.22
1:O:164[D]:PRO:N	1:P:120[D]:GLU:C[2_855]	0.98	1.22
1:M:163[A]:ASN:C	1:N:121[A]:GLY:N[2_756]	0.99	1.21
1:M:164[A]:PRO:CD	1:N:120[A]:GLU:C[2_756]	0.99	1.21
1:M:168[A]:ARG:CG	1:N:115[A]:LEU:CG[2_756]	0.99	1.21
1:N:40[B]:ARG:CA	1:N:109[B]:PHE:N[2_756]	0.99	1.21
1:N:178[B]:ASP:C	1:N:180[B]:PRO:CD[2_756]	0.99	1.21
1:O:131[C]:TRP:C	1:P:137[C]:GLU:CG[2_855]	0.99	1.21
1:O:158[C]:ASP:N	1:P:141[C]:ALA:N[2_855]	0.99	1.21
1:P:114[C]:GLY:CA	1:P:216[C]:ARG:NH1[2_855]	0.99	1.21
1:P:44[D]:GLY:N	1:P:108[D]:GLU:OE1[2_855]	0.99	1.21
1:F:201[A]:ASP:CG	1:P:273[A]:GLU:CD[1_455]	1.00	1.20
1:M:134[A]:PHE:CD1	1:N:177[A]:LYS:CE[2_756]	1.00	1.20
1:M:165[A]:THR:CB	1:N:107[A]:LYS:CA[2_756]	1.00	1.20
1:N:114[A]:GLY:C	1:N:216[A]:ARG:NH1[2_756]	1.00	1.20
1:M:155[B]:ARG:O	1:N:141[B]:ALA:N[2_756]	1.00	1.20
1:O:157[C]:ILE:C	1:P:141[C]:ALA:N[2_855]	1.00	1.20
1:O:157[C]:ILE:CG1	1:P:140[C]:ASP:OD2[2_855]	1.00	1.20
1:O:164[C]:PRO:CB	1:P:120[C]:GLU:N[2_855]	1.00	1.20
1:O:165[C]:THR:CB	1:P:107[C]:LYS:CB[2_855]	1.00	1.20
1:O:150[D]:VAL:C	1:P:136[D]:ALA:O[2_855]	1.00	1.20
1:O:160[D]:ILE:CB	1:P:119[D]:ARG:NH2[2_855]	1.00	1.20
1:O:163[D]:ASN:CA	1:P:121[D]:GLY:N[2_855]	1.00	1.20
1:O:168[D]:ARG:NH1	1:P:113[D]:VAL:CG2[2_855]	1.00	1.20
1:P:113[D]:VAL:C	2:P:700[D]:UMP:OP2[2_855]	1.00	1.20
1:M:162[A]:ASN:OD1	1:N:89[A]:ASP:O[2_756]	1.01	1.19
1:N:179[A]:LEU:CA	1:N:180[A]:PRO:CD[2_756]	1.01	1.19
1:N:114[B]:GLY:C	1:N:216[B]:ARG:NH2[2_756]	1.01	1.19

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:152[C]:GLN:CA	1:P:138[C]:TYR:O[2_855]	1.01	1.19
1:O:157[C]:ILE:CG2	1:P:142[C]:ASP:CA[2_855]	1.01	1.19
1:O:154[D]:GLN:CB	1:P:145[D]:TYR:CD2[2_855]	1.01	1.19
1:P:112[D]:LYS:C	2:P:700[D]:UMP:O5'[2_855]	1.01	1.19
1:M:147[A]:GLY:N	1:N:149[A]:GLY:C[2_756]	1.02	1.18
1:M:168[A]:ARG:NH1	1:N:113[A]:VAL:CB[2_756]	1.02	1.18
1:N:112[B]:LYS:CE	1:N:317[B]:ALA:OXT[2_756]	1.02	1.18
1:O:159[C]:THR:N	1:P:122[C]:ASP:OD1[2_855]	1.02	1.18
1:O:167[D]:ARG:CA	1:P:115[D]:LEU:O[2_855]	1.02	1.18
1:M:132[A]:ARG:N	1:N:137[A]:GLU:CB[2_756]	1.03	1.17
1:M:155[A]:ARG:CZ	1:N:125[A]:PRO:CA[2_756]	1.03	1.17
1:M:167[A]:ARG:NH2	1:N:112[A]:LYS:CA[2_756]	1.03	1.17
1:O:155[C]:ARG:NE	1:P:124[C]:GLY:C[2_855]	1.03	1.17
1:O:158[C]:ASP:CA	1:P:141[C]:ALA:CB[2_855]	1.03	1.17
1:O:157[D]:ILE:CG1	1:P:142[D]:ASP:C[2_855]	1.03	1.17
1:M:147[A]:GLY:CA	1:N:149[A]:GLY:C[2_756]	1.04	1.16
1:M:164[A]:PRO:CA	1:N:120[A]:GLU:N[2_756]	1.04	1.16
1:M:156[B]:VAL:CB	1:N:140[B]:ASP:CB[2_756]	1.04	1.16
1:N:111[B]:GLU:C	2:N:600[B]:UMP:O5'[2_756]	1.04	1.16
1:O:137[C]:GLU:OE1	1:O:138[C]:TYR:CB[2_855]	1.04	1.16
1:O:167[D]:ARG:C	1:P:115[D]:LEU:O[2_855]	1.04	1.16
1:M:136[A]:ALA:CB	1:M:177[A]:LYS:NZ[2_756]	1.05	1.15
1:M:131[B]:TRP:CA	1:N:137[B]:GLU:OE2[2_756]	1.05	1.15
1:M:157[B]:ILE:CB	1:N:142[B]:ASP:CB[2_756]	1.05	1.15
1:P:39[C]:ASP:CA	1:P:108[C]:GLU:C[2_855]	1.05	1.15
1:O:152[D]:GLN:CA	1:P:138[D]:TYR:CA[2_855]	1.05	1.15
1:O:153[D]:LEU:CA	1:P:139[D]:THR:OG1[2_855]	1.05	1.15
1:M:154[A]:GLN:N	1:N:145[A]:TYR:CZ[2_756]	1.06	1.14
1:M:158[A]:ASP:CB	1:N:88[A]:THR:OG1[2_756]	1.06	1.14
1:M:166[A]:ASP:N	1:N:110[A]:LEU:CD1[2_756]	1.06	1.14
1:O:137[C]:GLU:CG	1:O:138[C]:TYR:N[2_855]	1.06	1.14
1:O:162[C]:ASN:CG	1:P:89[C]:ASP:C[2_855]	1.06	1.14
1:M:131[A]:TRP:C	1:N:137[A]:GLU:CB[2_756]	1.07	1.13
1:M:168[A]:ARG:CB	1:N:115[A]:LEU:CG[2_756]	1.07	1.13
1:M:169[A]:ILE:CD1	1:N:118[A]:ARG:CA[2_756]	1.07	1.13
1:M:150[B]:VAL:O	1:N:137[B]:GLU:C[2_756]	1.07	1.13
1:M:167[B]:ARG:CB	1:N:116[B]:GLY:CA[2_756]	1.07	1.13
1:O:169[C]:ILE:CA	1:P:117[C]:HIS:CE1[2_855]	1.07	1.13
1:P:179[C]:LEU:CB	1:P:180[C]:PRO:CB[2_855]	1.07	1.13
1:M:147[B]:GLY:N	1:N:148[B]:LYS:C[2_756]	1.08	1.12
1:M:151[B]:ASP:CG	1:N:145[B]:TYR:CE1[2_756]	1.08	1.12
1:M:159[B]:THR:CB	1:N:122[B]:ASP:CB[2_756]	1.08	1.12

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:155[D]:ARG:CB	1:P:138[D]:TYR:CE1[2_855]	1.08	1.12
1:M:155[A]:ARG:CZ	1:N:125[A]:PRO:C[2_756]	1.09	1.11
1:M:159[A]:THR:CB	1:N:122[A]:ASP:OD1[2_756]	1.09	1.11
1:M:162[A]:ASN:CB	1:N:89[A]:ASP:C[2_756]	1.09	1.11
1:M:167[A]:ARG:CA	1:N:115[A]:LEU:C[2_756]	1.09	1.11
1:M:193[A]:PHE:O	1:N:117[A]:HIS:C[2_756]	1.09	1.11
1:O:163[C]:ASN:N	1:P:121[C]:GLY:CA[2_855]	1.09	1.11
1:O:164[C]:PRO:CD	1:P:120[C]:GLU:CA[2_855]	1.09	1.11
1:O:167[D]:ARG:CD	1:P:111[D]:GLU:CG[2_855]	1.09	1.11
1:M:160[B]:ILE:CB	1:N:119[B]:ARG:NH2[2_756]	1.10	1.10
1:O:137[C]:GLU:OE2	1:O:138[C]:TYR:O[2_855]	1.10	1.10
1:O:163[C]:ASN:N	1:P:121[C]:GLY:C[2_855]	1.10	1.10
1:O:155[D]:ARG:CB	1:P:138[D]:TYR:CZ[2_855]	1.10	1.10
1:M:164[A]:PRO:C	1:N:120[A]:GLU:N[2_756]	1.11	1.09
1:N:39[A]:ASP:OD1	1:N:108[A]:GLU:CG[2_756]	1.11	1.09
1:M:149[B]:GLY:CA	1:N:135[B]:GLY:C[2_756]	1.11	1.09
1:M:167[B]:ARG:CZ	1:N:111[B]:GLU:CB[2_756]	1.11	1.09
1:N:39[B]:ASP:OD1	1:N:108[B]:GLU:CG[2_756]	1.11	1.09
1:O:148[C]:LYS:CB	1:O:177[C]:LYS:CD[2_855]	1.11	1.09
1:O:155[C]:ARG:C	1:P:138[C]:TYR:CE2[2_855]	1.11	1.09
1:O:152[D]:GLN:O	1:P:139[D]:THR:N[2_855]	1.11	1.09
1:O:167[D]:ARG:NE	1:P:111[D]:GLU:CB[2_855]	1.11	1.09
1:M:154[A]:GLN:CA	1:N:145[A]:TYR:CE2[2_756]	1.12	1.08
1:M:159[A]:THR:O	1:N:122[A]:ASP:N[2_756]	1.12	1.08
1:N:39[A]:ASP:CB	1:N:108[A]:GLU:C[2_756]	1.12	1.08
1:N:113[A]:VAL:N	2:N:600[A]:UMP:OP3[2_756]	1.12	1.08
1:M:150[B]:VAL:N	1:N:136[B]:ALA:O[2_756]	1.12	1.08
1:N:40[B]:ARG:CA	1:N:109[B]:PHE:CA[2_756]	1.12	1.08
1:N:178[B]:ASP:O	1:N:180[B]:PRO:CD[2_756]	1.12	1.08
1:O:163[C]:ASN:CA	1:P:121[C]:GLY:N[2_855]	1.12	1.08
1:P:176[C]:PRO:O	1:P:177[C]:LYS:O[2_855]	1.12	1.08
1:O:156[D]:VAL:CB	1:P:140[D]:ASP:CB[2_855]	1.12	1.08
1:O:156[D]:VAL:CG2	1:P:139[D]:THR:O[2_855]	1.12	1.08
1:M:153[A]:LEU:N	1:N:139[A]:THR:N[2_756]	1.13	1.07
1:M:155[B]:ARG:CB	1:N:138[B]:TYR:CZ[2_756]	1.13	1.07
1:M:160[B]:ILE:CA	1:N:119[B]:ARG:CD[2_756]	1.13	1.07
1:M:162[B]:ASN:ND2	1:N:89[B]:ASP:CB[2_756]	1.13	1.07
1:O:162[C]:ASN:CG	1:P:89[C]:ASP:CA[2_855]	1.13	1.07
1:O:159[D]:THR:CB	1:P:122[D]:ASP:CB[2_855]	1.13	1.07
1:O:166[D]:ASP:CA	1:P:110[D]:LEU:CD1[2_855]	1.13	1.07
1:M:153[A]:LEU:C	1:N:145[A]:TYR:OH[2_756]	1.14	1.06
1:O:163[C]:ASN:OD1	1:P:105[C]:GLY:C[2_855]	1.14	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:40[C]:ARG:N	1:P:109[C]:PHE:CA[2_855]	1.14	1.06
1:O:149[D]:GLY:N	1:P:135[D]:GLY:CA[2_855]	1.14	1.06
1:O:154[D]:GLN:N	1:P:145[D]:TYR:OH[2_855]	1.14	1.06
1:M:156[A]:VAL:CG1	1:N:140[A]:ASP:CB[2_756]	1.15	1.05
1:M:192[A]:GLN:CG	1:N:117[A]:HIS:CB[2_756]	1.15	1.05
1:N:40[A]:ARG:CA	1:N:109[A]:PHE:CB[2_756]	1.15	1.05
1:M:150[B]:VAL:CA	1:N:136[B]:ALA:O[2_756]	1.15	1.05
1:M:152[B]:GLN:C	1:N:139[B]:THR:CA[2_756]	1.15	1.05
1:M:152[B]:GLN:O	1:N:139[B]:THR:C[2_756]	1.15	1.05
1:M:160[B]:ILE:CA	1:N:119[B]:ARG:NE[2_756]	1.15	1.05
1:O:168[C]:ARG:NH1	1:P:113[C]:VAL:CB[2_855]	1.15	1.05
1:P:179[C]:LEU:CB	1:P:180[C]:PRO:CG[2_855]	1.15	1.05
1:O:169[D]:ILE:CD1	1:P:119[D]:ARG:N[2_855]	1.15	1.05
1:M:157[A]:ILE:CG2	1:N:142[A]:ASP:CA[2_756]	1.16	1.04
1:M:167[A]:ARG:CZ	1:N:112[A]:LYS:N[2_756]	1.16	1.04
1:M:169[A]:ILE:CG1	1:N:118[A]:ARG:CG[2_756]	1.16	1.04
1:N:38[A]:PRO:O	1:N:108[A]:GLU:N[2_756]	1.16	1.04
1:N:41[A]:THR:CG2	1:N:112[A]:LYS:CD[2_756]	1.16	1.04
1:M:152[B]:GLN:CB	1:N:138[B]:TYR:O[2_756]	1.16	1.04
1:M:163[B]:ASN:CA	1:N:120[B]:GLU:C[2_756]	1.16	1.04
1:O:155[C]:ARG:CA	1:P:138[C]:TYR:CZ[2_855]	1.16	1.04
1:O:169[C]:ILE:O	1:P:117[C]:HIS:ND1[2_855]	1.16	1.04
1:O:132[D]:ARG:NH2	1:P:144[D]:ASP:O[2_855]	1.16	1.04
1:O:147[D]:GLY:CA	1:P:149[D]:GLY:CA[2_855]	1.16	1.04
1:O:168[D]:ARG:CD	1:P:115[D]:LEU:CB[2_855]	1.16	1.04
1:O:169[D]:ILE:CG1	1:P:118[D]:ARG:CA[2_855]	1.16	1.04
1:P:40[D]:ARG:CB	1:P:109[D]:PHE:CA[2_855]	1.16	1.04
1:M:157[A]:ILE:C	1:N:141[A]:ALA:CB[2_756]	1.17	1.03
1:M:162[A]:ASN:ND2	1:N:89[A]:ASP:CA[2_756]	1.17	1.03
1:M:136[B]:ALA:CA	1:M:177[B]:LYS:NZ[2_756]	1.17	1.03
1:M:163[B]:ASN:O	1:N:119[B]:ARG:O[2_756]	1.17	1.03
1:M:169[B]:ILE:CD1	1:N:119[B]:ARG:N[2_756]	1.17	1.03
1:P:39[C]:ASP:OD1	1:P:108[C]:GLU:CG[2_855]	1.17	1.03
1:O:152[D]:GLN:C	1:P:138[D]:TYR:C[2_855]	1.17	1.03
1:O:158[D]:ASP:N	1:P:141[D]:ALA:C[2_855]	1.17	1.03
1:M:131[A]:TRP:CB	1:N:137[A]:GLU:CD[2_756]	1.18	1.02
1:N:37[A]:ARG:NH2	1:N:107[A]:LYS:CE[2_756]	1.18	1.02
1:M:163[B]:ASN:CA	1:N:120[B]:GLU:O[2_756]	1.18	1.02
1:O:132[C]:ARG:N	1:P:137[C]:GLU:OE1[2_855]	1.18	1.02
1:O:134[C]:PHE:O	1:P:177[C]:LYS:NZ[2_855]	1.18	1.02
1:M:131[A]:TRP:O	1:N:137[A]:GLU:CG[2_756]	1.19	1.01
1:M:147[A]:GLY:N	1:N:149[A]:GLY:CA[2_756]	1.19	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:151[A]:ASP:N	1:N:136[A]:ALA:O[2_756]	1.19	1.01
1:M:163[A]:ASN:OD1	1:N:105[A]:GLY:CA[2_756]	1.19	1.01
1:M:293[B]:ASP:OD2	1:N:144[B]:ASP:OD2[2_756]	1.19	1.01
1:O:154[C]:GLN:O	1:P:140[C]:ASP:O[2_855]	1.19	1.01
1:O:155[C]:ARG:CZ	1:P:125[C]:PRO:CA[2_855]	1.19	1.01
1:O:164[C]:PRO:N	1:P:120[C]:GLU:CA[2_855]	1.19	1.01
1:O:156[D]:VAL:CG1	1:P:140[D]:ASP:CB[2_855]	1.19	1.01
1:O:160[D]:ILE:O	1:P:119[D]:ARG:NE[2_855]	1.19	1.01
1:O:168[D]:ARG:CZ	1:P:113[D]:VAL:CG2[2_855]	1.19	1.01
1:M:131[A]:TRP:N	1:N:137[A]:GLU:OE1[2_756]	1.20	1.00
1:M:165[A]:THR:OG1	1:N:106[A]:SER:C[2_756]	1.20	1.00
1:N:37[A]:ARG:NH2	1:N:107[A]:LYS:CD[2_756]	1.20	1.00
1:M:151[B]:ASP:CA	1:N:137[B]:GLU:O[2_756]	1.20	1.00
1:M:152[B]:GLN:CG	1:N:138[B]:TYR:O[2_756]	1.20	1.00
1:P:179[C]:LEU:CG	1:P:180[C]:PRO:CB[2_855]	1.20	1.00
1:O:163[D]:ASN:C	1:P:121[D]:GLY:N[2_855]	1.20	1.00
1:P:40[D]:ARG:CA	1:P:109[D]:PHE:CA[2_855]	1.20	1.00
1:P:112[D]:LYS:O	2:P:700[D]:UMP:C5'[2_855]	1.20	1.00
1:P:113[D]:VAL:CA	2:P:700[D]:UMP:OP2[2_855]	1.20	1.00
1:P:114[D]:GLY:O	1:P:216[D]:ARG:CZ[2_855]	1.20	1.00
1:M:153[A]:LEU:N	1:N:138[A]:TYR:C[2_756]	1.21	0.99
1:M:166[A]:ASP:CA	1:N:110[A]:LEU:CG[2_756]	1.21	0.99
1:M:167[A]:ARG:O	1:N:115[A]:LEU:CA[2_756]	1.21	0.99
1:M:148[B]:LYS:N	1:N:149[B]:GLY:CA[2_756]	1.21	0.99
1:N:179[B]:LEU:CA	1:N:180[B]:PRO:N[2_756]	1.21	0.99
1:O:135[C]:GLY:N	1:P:177[C]:LYS:NZ[2_855]	1.21	0.99
1:O:157[C]:ILE:N	1:P:140[C]:ASP:C[2_855]	1.21	0.99
1:P:112[C]:LYS:O	2:P:700[C]:UMP:O5'[2_855]	1.21	0.99
1:O:131[D]:TRP:N	1:P:137[D]:GLU:CD[2_855]	1.21	0.99
1:O:155[D]:ARG:CA	1:P:138[D]:TYR:CE1[2_855]	1.21	0.99
1:O:164[D]:PRO:CA	1:P:120[D]:GLU:N[2_855]	1.21	0.99
1:P:39[D]:ASP:OD1	1:P:108[D]:GLU:CD[2_855]	1.21	0.99
1:P:114[D]:GLY:CA	1:P:216[D]:ARG:NH2[2_855]	1.21	0.99
1:M:168[A]:ARG:N	1:N:115[A]:LEU:CA[2_756]	1.22	0.98
1:M:293[A]:ASP:N	1:N:144[A]:ASP:CB[2_756]	1.22	0.98
1:N:179[A]:LEU:CG	1:N:180[A]:PRO:CG[2_756]	1.22	0.98
1:M:163[B]:ASN:CG	1:N:121[B]:GLY:N[2_756]	1.22	0.98
1:N:39[B]:ASP:CG	1:N:108[B]:GLU:CB[2_756]	1.22	0.98
1:O:151[C]:ASP:CG	1:P:137[C]:GLU:O[2_855]	1.22	0.98
1:O:159[C]:THR:N	1:P:122[C]:ASP:CG[2_855]	1.22	0.98
1:O:162[C]:ASN:O	1:P:121[C]:GLY:CA[2_855]	1.22	0.98
1:F:201[A]:ASP:CG	1:P:273[A]:GLU:OE2[1_455]	1.23	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:150[A]:VAL:CG2	1:N:178[A]:ASP:OD1[2_756]	1.23	0.97
1:M:149[B]:GLY:O	1:N:136[B]:ALA:N[2_756]	1.23	0.97
1:M:155[B]:ARG:C	1:N:141[B]:ALA:N[2_756]	1.23	0.97
1:N:39[B]:ASP:CG	1:N:108[B]:GLU:CG[2_756]	1.23	0.97
1:N:40[B]:ARG:NE	1:N:109[B]:PHE:O[2_756]	1.23	0.97
1:P:114[D]:GLY:CA	1:P:216[D]:ARG:CZ[2_855]	1.23	0.97
1:M:135[A]:GLY:N	1:N:177[A]:LYS:NZ[2_756]	1.24	0.96
1:M:147[A]:GLY:O	1:N:134[A]:PHE:O[2_756]	1.24	0.96
1:M:154[A]:GLN:CG	1:N:145[A]:TYR:CD2[2_756]	1.24	0.96
1:M:158[A]:ASP:N	1:N:141[A]:ALA:CB[2_756]	1.24	0.96
1:M:167[A]:ARG:NE	1:N:112[A]:LYS:N[2_756]	1.24	0.96
1:N:111[A]:GLU:OE1	1:N:255[A]:ASP:OD2[2_756]	1.24	0.96
1:M:130[B]:GLN:C	1:N:137[B]:GLU:CD[2_756]	1.24	0.96
1:O:293[C]:ASP:CB	1:P:144[C]:ASP:OD2[2_855]	1.24	0.96
1:P:179[C]:LEU:CG	1:P:180[C]:PRO:CG[2_855]	1.24	0.96
1:O:147[D]:GLY:N	1:P:149[D]:GLY:N[2_855]	1.24	0.96
1:O:157[D]:ILE:CG1	1:P:143[D]:GLY:N[2_855]	1.24	0.96
1:O:167[D]:ARG:O	1:P:115[D]:LEU:C[2_855]	1.24	0.96
1:P:39[D]:ASP:CA	1:P:108[D]:GLU:N[2_855]	1.24	0.96
1:M:156[A]:VAL:CA	1:N:140[A]:ASP:CA[2_756]	1.25	0.95
1:M:156[A]:VAL:CB	1:N:140[A]:ASP:CA[2_756]	1.25	0.95
1:M:159[A]:THR:CB	1:N:122[A]:ASP:CG[2_756]	1.25	0.95
1:M:167[A]:ARG:NE	1:N:111[A]:GLU:CA[2_756]	1.25	0.95
1:N:110[B]:LEU:C	2:N:600[B]:UMP:OP3[2_756]	1.25	0.95
1:N:112[B]:LYS:CE	1:N:317[B]:ALA:O[2_756]	1.25	0.95
1:N:179[B]:LEU:N	1:N:180[B]:PRO:CD[2_756]	1.25	0.95
1:O:132[C]:ARG:O	1:P:137[C]:GLU:N[2_855]	1.25	0.95
1:O:148[C]:LYS:O	1:P:135[C]:GLY:O[2_855]	1.25	0.95
1:O:167[C]:ARG:NH2	1:P:112[C]:LYS:CA[2_855]	1.25	0.95
1:P:39[C]:ASP:C	1:P:109[C]:PHE:N[2_855]	1.25	0.95
1:O:150[D]:VAL:CG2	1:P:178[D]:ASP:OD1[2_855]	1.25	0.95
1:O:156[D]:VAL:N	1:P:140[D]:ASP:C[2_855]	1.25	0.95
1:O:156[D]:VAL:N	1:P:140[D]:ASP:CA[2_855]	1.25	0.95
1:O:193[D]:PHE:O	1:P:117[D]:HIS:O[2_855]	1.25	0.95
1:P:39[D]:ASP:CG	1:P:108[D]:GLU:CB[2_855]	1.25	0.95
1:M:152[A]:GLN:CA	1:N:138[A]:TYR:CA[2_756]	1.26	0.94
1:M:155[A]:ARG:N	1:N:138[A]:TYR:CE1[2_756]	1.26	0.94
1:M:163[A]:ASN:OD1	1:N:105[A]:GLY:O[2_756]	1.26	0.94
1:N:44[A]:GLY:CA	1:N:108[A]:GLU:OE1[2_756]	1.26	0.94
1:N:179[A]:LEU:N	1:N:180[A]:PRO:CD[2_756]	1.26	0.94
1:N:179[A]:LEU:CB	1:N:180[A]:PRO:CD[2_756]	1.26	0.94
1:M:152[B]:GLN:O	1:N:140[B]:ASP:N[2_756]	1.26	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:159[B]:THR:CB	1:N:122[B]:ASP:CG[2_756]	1.26	0.94
1:O:156[C]:VAL:C	1:P:140[C]:ASP:CA[2_855]	1.26	0.94
1:O:165[C]:THR:CA	1:P:107[C]:LYS:CD[2_855]	1.26	0.94
1:P:40[C]:ARG:CA	1:P:109[C]:PHE:CA[2_855]	1.26	0.94
1:O:162[D]:ASN:N	1:P:89[D]:ASP:CG[2_855]	1.26	0.94
1:O:165[D]:THR:N	1:P:120[D]:GLU:CA[2_855]	1.26	0.94
1:O:167[D]:ARG:NH2	1:P:112[D]:LYS:N[2_855]	1.26	0.94
1:O:168[D]:ARG:CG	1:P:115[D]:LEU:CD2[2_855]	1.26	0.94
1:O:169[D]:ILE:N	1:P:118[D]:ARG:CG[2_855]	1.26	0.94
1:O:169[D]:ILE:CG1	1:P:118[D]:ARG:CB[2_855]	1.26	0.94
1:M:159[A]:THR:C	1:N:122[A]:ASP:CB[2_756]	1.27	0.93
1:M:195[A]:VAL:CG2	1:N:119[A]:ARG:CB[2_756]	1.27	0.93
1:O:150[C]:VAL:CG2	1:P:178[C]:ASP:OD1[2_855]	1.27	0.93
1:O:153[C]:LEU:O	1:P:140[C]:ASP:N[2_855]	1.27	0.93
1:O:160[C]:ILE:O	1:P:119[C]:ARG:CG[2_855]	1.27	0.93
1:O:160[C]:ILE:O	1:P:119[C]:ARG:CD[2_855]	1.27	0.93
1:O:162[C]:ASN:C	1:P:121[C]:GLY:C[2_855]	1.27	0.93
1:P:179[C]:LEU:CB	1:P:180[C]:PRO:CA[2_855]	1.27	0.93
1:O:163[D]:ASN:CB	1:P:121[D]:GLY:CA[2_855]	1.27	0.93
1:M:154[A]:GLN:CB	1:N:145[A]:TYR:CD2[2_756]	1.28	0.92
1:M:164[A]:PRO:N	1:N:121[A]:GLY:N[2_756]	1.28	0.92
1:M:167[A]:ARG:CG	1:N:111[A]:GLU:CA[2_756]	1.28	0.92
1:M:167[A]:ARG:NH2	1:N:112[A]:LYS:N[2_756]	1.28	0.92
1:M:147[B]:GLY:CA	1:N:149[B]:GLY:CA[2_756]	1.28	0.92
1:O:153[C]:LEU:CA	1:P:139[C]:THR:CA[2_855]	1.28	0.92
1:O:154[C]:GLN:CD	1:P:145[C]:TYR:CE2[2_855]	1.28	0.92
1:O:135[D]:GLY:N	1:P:177[D]:LYS:NZ[2_855]	1.28	0.92
1:O:147[D]:GLY:O	1:P:134[D]:PHE:O[2_855]	1.28	0.92
1:O:154[D]:GLN:N	1:P:145[D]:TYR:CZ[2_855]	1.28	0.92
1:O:155[D]:ARG:CA	1:P:138[D]:TYR:CZ[2_855]	1.28	0.92
1:P:39[D]:ASP:CB	1:P:108[D]:GLU:CB[2_855]	1.28	0.92
1:P:179[D]:LEU:C	1:P:180[D]:PRO:N[2_855]	1.28	0.92
1:M:152[A]:GLN:CB	1:N:138[A]:TYR:O[2_756]	1.29	0.91
1:M:155[A]:ARG:CD	1:N:124[A]:GLY:O[2_756]	1.29	0.91
1:M:157[A]:ILE:CB	1:N:141[A]:ALA:C[2_756]	1.29	0.91
1:M:157[A]:ILE:CG2	1:N:142[A]:ASP:N[2_756]	1.29	0.91
1:M:169[A]:ILE:CB	1:N:118[A]:ARG:CG[2_756]	1.29	0.91
1:N:114[A]:GLY:CA	1:N:216[A]:ARG:CZ[2_756]	1.29	0.91
1:M:153[B]:LEU:N	1:N:139[B]:THR:OG1[2_756]	1.29	0.91
1:M:155[B]:ARG:CZ	1:N:124[B]:GLY:O[2_756]	1.29	0.91
1:M:163[B]:ASN:OD1	1:N:105[B]:GLY:O[2_756]	1.29	0.91
1:O:148[C]:LYS:CG	1:O:177[C]:LYS:CG[2_855]	1.29	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:155[C]:ARG:CD	1:P:124[C]:GLY:CA[2_855]	1.29	0.91
1:P:40[C]:ARG:N	1:P:109[C]:PHE:N[2_855]	1.29	0.91
1:O:149[D]:GLY:CA	1:P:135[D]:GLY:O[2_855]	1.29	0.91
1:O:168[D]:ARG:CD	1:P:115[D]:LEU:CG[2_855]	1.29	0.91
1:P:40[D]:ARG:CB	1:P:109[D]:PHE:CB[2_855]	1.29	0.91
1:M:155[A]:ARG:NE	1:N:124[A]:GLY:O[2_756]	1.30	0.90
1:M:161[A]:LYS:CA	1:N:89[A]:ASP:OD1[2_756]	1.30	0.90
1:N:39[A]:ASP:OD1	1:N:108[A]:GLU:CD[2_756]	1.30	0.90
1:N:112[A]:LYS:C	2:N:600[A]:UMP:P[2_756]	1.30	0.90
1:M:165[B]:THR:O	1:N:107[B]:LYS:CD[2_756]	1.30	0.90
1:M:293[B]:ASP:CG	1:N:144[B]:ASP:CG[2_756]	1.30	0.90
1:O:169[C]:ILE:CA	1:P:117[C]:HIS:ND1[2_855]	1.30	0.90
1:P:115[D]:LEU:N	1:P:216[D]:ARG:NH1[2_855]	1.30	0.90
1:M:153[A]:LEU:CA	1:N:139[A]:THR:N[2_756]	1.31	0.89
1:M:164[A]:PRO:CA	1:N:119[A]:ARG:C[2_756]	1.31	0.89
1:N:114[A]:GLY:N	2:N:600[A]:UMP:OP1[2_756]	1.31	0.89
1:O:156[C]:VAL:CB	1:P:139[C]:THR:O[2_855]	1.31	0.89
1:O:156[D]:VAL:CB	1:P:140[D]:ASP:CA[2_855]	1.31	0.89
1:O:159[D]:THR:CB	1:P:122[D]:ASP:OD1[2_855]	1.31	0.89
1:M:134[A]:PHE:C	1:N:177[A]:LYS:NZ[2_756]	1.32	0.88
1:M:150[A]:VAL:C	1:N:136[A]:ALA:O[2_756]	1.32	0.88
1:M:154[A]:GLN:CA	1:N:145[A]:TYR:OH[2_756]	1.32	0.88
1:M:163[A]:ASN:CA	1:N:121[A]:GLY:N[2_756]	1.32	0.88
1:M:158[B]:ASP:N	1:N:141[B]:ALA:C[2_756]	1.32	0.88
1:M:164[B]:PRO:C	1:N:120[B]:GLU:N[2_756]	1.32	0.88
1:N:179[B]:LEU:CD1	1:N:181[B]:LEU:CD2[2_756]	1.32	0.88
1:O:132[C]:ARG:N	1:P:137[C]:GLU:CD[2_855]	1.32	0.88
1:O:152[C]:GLN:N	1:P:138[C]:TYR:N[2_855]	1.32	0.88
1:O:155[C]:ARG:CA	1:P:138[C]:TYR:CD2[2_855]	1.32	0.88
1:O:162[C]:ASN:ND2	1:P:89[C]:ASP:N[2_855]	1.32	0.88
1:O:167[C]:ARG:CA	1:P:115[C]:LEU:C[2_855]	1.32	0.88
1:O:162[D]:ASN:ND2	1:P:89[D]:ASP:CB[2_855]	1.32	0.88
1:M:132[A]:ARG:O	1:N:137[A]:GLU:N[2_756]	1.33	0.87
1:M:152[A]:GLN:C	1:N:138[A]:TYR:CA[2_756]	1.33	0.87
1:M:152[A]:GLN:C	1:N:139[A]:THR:N[2_756]	1.33	0.87
1:M:156[A]:VAL:C	1:N:141[A]:ALA:N[2_756]	1.33	0.87
1:M:166[A]:ASP:CA	1:N:110[A]:LEU:CD1[2_756]	1.33	0.87
1:M:162[B]:ASN:CA	1:N:89[B]:ASP:OD2[2_756]	1.33	0.87
1:M:164[B]:PRO:N	1:N:120[B]:GLU:O[2_756]	1.33	0.87
1:M:167[B]:ARG:NE	1:N:111[B]:GLU:CG[2_756]	1.33	0.87
1:M:169[B]:ILE:CG1	1:N:118[B]:ARG:CA[2_756]	1.33	0.87
1:O:147[C]:GLY:N	1:P:149[C]:GLY:CA[2_855]	1.33	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:151[C]:ASP:C	1:P:138[C]:TYR:CA[2_855]	1.33	0.87
1:O:164[C]:PRO:CD	1:P:120[C]:GLU:O[2_855]	1.33	0.87
1:O:166[C]:ASP:CA	1:P:110[C]:LEU:CB[2_855]	1.33	0.87
1:O:167[C]:ARG:NE	1:P:111[C]:GLU:O[2_855]	1.33	0.87
1:O:168[C]:ARG:NE	1:P:113[C]:VAL:C[2_855]	1.33	0.87
1:O:155[D]:ARG:NH2	1:P:124[D]:GLY:C[2_855]	1.33	0.87
1:O:158[D]:ASP:C	1:P:141[D]:ALA:CB[2_855]	1.33	0.87
1:O:167[D]:ARG:O	1:P:116[D]:GLY:N[2_855]	1.33	0.87
1:M:159[A]:THR:CA	1:N:122[A]:ASP:CA[2_756]	1.34	0.86
1:M:162[A]:ASN:ND2	1:N:89[A]:ASP:N[2_756]	1.34	0.86
1:M:193[A]:PHE:C	1:N:117[A]:HIS:O[2_756]	1.34	0.86
1:N:179[A]:LEU:CD1	1:N:181[A]:LEU:N[2_756]	1.34	0.86
1:M:156[B]:VAL:CB	1:N:140[B]:ASP:CG[2_756]	1.34	0.86
1:M:163[B]:ASN:CA	1:N:121[B]:GLY:N[2_756]	1.34	0.86
1:M:168[B]:ARG:N	1:N:115[B]:LEU:O[2_756]	1.34	0.86
1:N:40[B]:ARG:CG	1:N:109[B]:PHE:CG[2_756]	1.34	0.86
1:N:179[B]:LEU:N	1:N:180[B]:PRO:CG[2_756]	1.34	0.86
1:O:153[C]:LEU:N	1:P:138[C]:TYR:C[2_855]	1.34	0.86
1:O:156[C]:VAL:C	1:P:140[C]:ASP:CB[2_855]	1.34	0.86
1:O:168[C]:ARG:NE	1:P:113[C]:VAL:O[2_855]	1.34	0.86
1:O:169[C]:ILE:CD1	1:P:118[C]:ARG:N[2_855]	1.34	0.86
1:O:242[C]:THR:CG2	1:P:142[C]:ASP:OD1[2_855]	1.34	0.86
1:O:153[D]:LEU:N	1:P:139[D]:THR:N[2_855]	1.34	0.86
1:O:154[D]:GLN:CA	1:P:145[D]:TYR:CE2[2_855]	1.34	0.86
1:O:155[D]:ARG:CZ	1:P:125[D]:PRO:CA[2_855]	1.34	0.86
1:O:158[D]:ASP:CA	1:P:141[D]:ALA:CB[2_855]	1.34	0.86
1:O:162[D]:ASN:CB	1:P:89[D]:ASP:C[2_855]	1.34	0.86
1:M:131[A]:TRP:CA	1:N:137[A]:GLU:CG[2_756]	1.35	0.85
1:M:155[A]:ARG:N	1:N:138[A]:TYR:CD1[2_756]	1.35	0.85
1:M:155[A]:ARG:C	1:N:138[A]:TYR:OH[2_756]	1.35	0.85
1:M:155[A]:ARG:NH1	1:N:126[A]:VAL:N[2_756]	1.35	0.85
1:M:164[A]:PRO:CA	1:N:120[A]:GLU:CA[2_756]	1.35	0.85
1:N:39[A]:ASP:N	1:N:108[A]:GLU:CB[2_756]	1.35	0.85
1:N:40[A]:ARG:CG	1:N:109[A]:PHE:CE1[2_756]	1.35	0.85
1:M:149[B]:GLY:N	1:N:135[B]:GLY:O[2_756]	1.35	0.85
1:M:167[B]:ARG:C	1:N:115[B]:LEU:O[2_756]	1.35	0.85
1:O:157[C]:ILE:N	1:P:140[C]:ASP:CB[2_855]	1.35	0.85
1:O:167[C]:ARG:C	1:P:116[C]:GLY:N[2_855]	1.35	0.85
1:O:170[C]:ILE:N	1:P:117[C]:HIS:CE1[2_855]	1.35	0.85
1:O:130[D]:GLN:C	1:P:137[D]:GLU:OE1[2_855]	1.35	0.85
1:O:147[D]:GLY:N	1:P:149[D]:GLY:CA[2_855]	1.35	0.85
1:O:154[D]:GLN:CG	1:P:145[D]:TYR:CD2[2_855]	1.35	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:155[D]:ARG:CG	1:P:138[D]:TYR:CE2[2_855]	1.35	0.85
1:M:156[A]:VAL:C	1:N:140[A]:ASP:C[2_756]	1.36	0.84
1:M:157[A]:ILE:CA	1:N:142[A]:ASP:N[2_756]	1.36	0.84
1:M:157[A]:ILE:O	1:N:141[A]:ALA:CB[2_756]	1.36	0.84
1:N:40[A]:ARG:N	1:N:109[A]:PHE:N[2_756]	1.36	0.84
1:M:146[B]:LYS:CG	1:N:147[B]:GLY:C[2_756]	1.36	0.84
1:M:152[B]:GLN:N	1:N:138[B]:TYR:CA[2_756]	1.36	0.84
1:M:156[B]:VAL:CG1	1:N:140[B]:ASP:OD1[2_756]	1.36	0.84
1:O:131[C]:TRP:CB	1:P:137[C]:GLU:OE2[2_855]	1.36	0.84
1:O:154[C]:GLN:N	1:P:145[C]:TYR:OH[2_855]	1.36	0.84
1:O:155[D]:ARG:CG	1:P:138[D]:TYR:CZ[2_855]	1.36	0.84
1:M:131[A]:TRP:CA	1:N:137[A]:GLU:OE1[2_756]	1.37	0.83
1:M:132[A]:ARG:C	1:N:137[A]:GLU:N[2_756]	1.37	0.83
1:M:152[A]:GLN:N	1:N:138[A]:TYR:CA[2_756]	1.37	0.83
1:M:166[A]:ASP:CA	1:N:110[A]:LEU:CB[2_756]	1.37	0.83
1:M:130[B]:GLN:O	1:N:137[B]:GLU:CG[2_756]	1.37	0.83
1:M:156[B]:VAL:CA	1:N:140[B]:ASP:CA[2_756]	1.37	0.83
1:O:153[C]:LEU:CA	1:P:139[C]:THR:CB[2_855]	1.37	0.83
1:O:154[C]:GLN:CA	1:P:145[C]:TYR:CZ[2_855]	1.37	0.83
1:O:154[C]:GLN:CB	1:P:145[C]:TYR:CE2[2_855]	1.37	0.83
1:O:167[C]:ARG:C	1:P:115[C]:LEU:C[2_855]	1.37	0.83
1:O:151[D]:ASP:CG	1:P:145[D]:TYR:CD1[2_855]	1.37	0.83
1:O:151[D]:ASP:OD2	1:P:145[D]:TYR:CE1[2_855]	1.37	0.83
1:O:163[D]:ASN:N	1:P:121[D]:GLY:CA[2_855]	1.37	0.83
1:O:165[D]:THR:N	1:P:120[D]:GLU:N[2_855]	1.37	0.83
1:P:39[D]:ASP:OD1	1:P:108[D]:GLU:CB[2_855]	1.37	0.83
1:N:179[A]:LEU:CA	1:N:180[A]:PRO:N[2_756]	1.38	0.82
1:M:154[B]:GLN:CD	1:N:143[B]:GLY:O[2_756]	1.38	0.82
1:M:155[B]:ARG:CA	1:N:140[B]:ASP:O[2_756]	1.38	0.82
1:N:39[B]:ASP:OD1	1:N:108[B]:GLU:CB[2_756]	1.38	0.82
1:O:153[C]:LEU:C	1:P:139[C]:THR:N[2_855]	1.38	0.82
1:O:164[C]:PRO:CG	1:P:120[C]:GLU:CB[2_855]	1.38	0.82
1:P:112[C]:LYS:C	2:P:700[C]:UMP:OP3[2_855]	1.38	0.82
1:P:114[D]:GLY:N	2:P:700[D]:UMP:OP2[2_855]	1.38	0.82
1:M:159[A]:THR:OG1	1:N:122[A]:ASP:OD1[2_756]	1.39	0.81
1:M:165[A]:THR:CB	1:N:107[A]:LYS:N[2_756]	1.39	0.81
1:M:136[B]:ALA:CB	1:M:177[B]:LYS:NZ[2_756]	1.39	0.81
1:M:146[B]:LYS:CB	1:N:147[B]:GLY:O[2_756]	1.39	0.81
1:M:147[B]:GLY:C	1:N:149[B]:GLY:C[2_756]	1.39	0.81
1:M:155[B]:ARG:NH2	1:N:124[B]:GLY:O[2_756]	1.39	0.81
1:M:242[B]:THR:CG2	1:N:142[B]:ASP:OD1[2_756]	1.39	0.81
1:M:293[B]:ASP:OD2	1:N:144[B]:ASP:CB[2_756]	1.39	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:162[C]:ASN:OD1	1:P:89[C]:ASP:C[2_855]	1.39	0.81
1:O:150[D]:VAL:O	1:P:137[D]:GLU:CA[2_855]	1.39	0.81
1:O:161[D]:LYS:N	1:P:119[D]:ARG:NH1[2_855]	1.39	0.81
1:O:166[D]:ASP:CB	1:P:110[D]:LEU:CD1[2_855]	1.39	0.81
1:O:166[D]:ASP:OD2	1:P:110[D]:LEU:CD2[2_855]	1.39	0.81
1:P:43[D]:THR:N	1:P:108[D]:GLU:OE2[2_855]	1.39	0.81
1:P:179[D]:LEU:CB	1:P:180[D]:PRO:N[2_855]	1.39	0.81
1:M:155[A]:ARG:C	1:N:138[A]:TYR:CE2[2_756]	1.40	0.80
1:M:157[A]:ILE:CA	1:N:141[A]:ALA:N[2_756]	1.40	0.80
1:M:170[A]:ILE:N	1:N:117[A]:HIS:CE1[2_756]	1.40	0.80
1:M:293[A]:ASP:CB	1:N:144[A]:ASP:CG[2_756]	1.40	0.80
1:N:39[A]:ASP:CB	1:N:108[A]:GLU:CA[2_756]	1.40	0.80
1:N:40[A]:ARG:CB	1:N:109[A]:PHE:CG[2_756]	1.40	0.80
1:M:157[B]:ILE:CG2	1:N:142[B]:ASP:CB[2_756]	1.40	0.80
1:N:179[B]:LEU:CA	1:N:180[B]:PRO:CA[2_756]	1.40	0.80
1:O:156[C]:VAL:CG2	1:P:139[C]:THR:O[2_855]	1.40	0.80
1:O:167[C]:ARG:C	1:P:115[C]:LEU:CA[2_855]	1.40	0.80
1:P:179[C]:LEU:CB	1:P:180[C]:PRO:N[2_855]	1.40	0.80
1:O:158[D]:ASP:N	1:P:141[D]:ALA:CB[2_855]	1.40	0.80
1:M:147[A]:GLY:C	1:N:134[A]:PHE:O[2_756]	1.41	0.79
1:M:167[A]:ARG:CA	1:N:115[A]:LEU:O[2_756]	1.41	0.79
1:M:168[A]:ARG:NE	1:N:113[A]:VAL:CG2[2_756]	1.41	0.79
1:M:169[A]:ILE:CD1	1:N:118[A]:ARG:CB[2_756]	1.41	0.79
1:M:242[A]:THR:CB	1:N:142[A]:ASP:OD1[2_756]	1.41	0.79
1:M:291[A]:ASP:OD1	1:N:144[A]:ASP:OD1[2_756]	1.41	0.79
1:M:130[B]:GLN:O	1:N:137[B]:GLU:OE1[2_756]	1.41	0.79
1:M:131[B]:TRP:N	1:N:137[B]:GLU:OE1[2_756]	1.41	0.79
1:M:152[B]:GLN:O	1:N:139[B]:THR:CA[2_756]	1.41	0.79
1:M:153[B]:LEU:N	1:N:139[B]:THR:CB[2_756]	1.41	0.79
1:M:167[B]:ARG:C	1:N:115[B]:LEU:C[2_756]	1.41	0.79
1:N:39[B]:ASP:CA	1:N:108[B]:GLU:CA[2_756]	1.41	0.79
1:O:151[C]:ASP:CA	1:P:138[C]:TYR:N[2_855]	1.41	0.79
1:O:153[C]:LEU:CG	1:P:139[C]:THR:CG2[2_855]	1.41	0.79
1:O:169[C]:ILE:CG1	1:P:118[C]:ARG:CA[2_855]	1.41	0.79
1:O:169[C]:ILE:CG1	1:P:118[C]:ARG:CB[2_855]	1.41	0.79
1:O:149[D]:GLY:C	1:P:135[D]:GLY:C[2_855]	1.41	0.79
1:O:155[D]:ARG:O	1:P:138[D]:TYR:OH[2_855]	1.41	0.79
1:O:155[D]:ARG:NH2	1:P:125[D]:PRO:CA[2_855]	1.41	0.79
1:O:164[D]:PRO:C	1:P:119[D]:ARG:C[2_855]	1.41	0.79
1:O:167[D]:ARG:CA	1:P:115[D]:LEU:C[2_855]	1.41	0.79
1:P:39[D]:ASP:CA	1:P:108[D]:GLU:CA[2_855]	1.41	0.79
1:M:160[A]:ILE:CG2	1:N:119[A]:ARG:NH2[2_756]	1.42	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:40[A]:ARG:CG	1:N:109[A]:PHE:CD1[2_756]	1.42	0.78
1:N:176[A]:PRO:O	1:N:177[A]:LYS:O[2_756]	1.42	0.78
1:M:151[B]:ASP:OD2	1:N:145[B]:TYR:CE1[2_756]	1.42	0.78
1:M:165[B]:THR:C	1:N:107[B]:LYS:CD[2_756]	1.42	0.78
1:O:151[C]:ASP:CA	1:P:137[C]:GLU:C[2_855]	1.42	0.78
1:O:160[C]:ILE:C	1:P:119[C]:ARG:CG[2_855]	1.42	0.78
1:O:166[C]:ASP:C	1:P:115[C]:LEU:O[2_855]	1.42	0.78
1:P:179[C]:LEU:CB	1:P:180[C]:PRO:CD[2_855]	1.42	0.78
1:O:152[D]:GLN:CA	1:P:138[D]:TYR:O[2_855]	1.42	0.78
1:O:155[D]:ARG:CB	1:P:138[D]:TYR:CD1[2_855]	1.42	0.78
1:O:156[D]:VAL:C	1:P:141[D]:ALA:N[2_855]	1.42	0.78
1:O:157[D]:ILE:C	1:P:141[D]:ALA:C[2_855]	1.42	0.78
1:O:168[D]:ARG:CB	1:P:115[D]:LEU:CD2[2_855]	1.42	0.78
1:O:242[D]:THR:CG2	1:P:142[D]:ASP:CG[2_855]	1.42	0.78
1:P:113[D]:VAL:N	2:P:700[D]:UMP:P[2_855]	1.42	0.78
1:M:132[A]:ARG:O	1:N:136[A]:ALA:C[2_756]	1.43	0.77
1:M:151[A]:ASP:OD2	1:N:137[A]:GLU:O[2_756]	1.43	0.77
1:M:159[A]:THR:C	1:N:122[A]:ASP:CA[2_756]	1.43	0.77
1:M:169[A]:ILE:CD1	1:N:118[A]:ARG:C[2_756]	1.43	0.77
1:M:161[B]:LYS:N	1:N:119[B]:ARG:NE[2_756]	1.43	0.77
1:O:163[C]:ASN:N	1:P:122[C]:ASP:N[2_855]	1.43	0.77
1:P:39[C]:ASP:N	1:P:108[C]:GLU:CA[2_855]	1.43	0.77
1:P:40[C]:ARG:CD	1:P:113[C]:VAL:CG1[2_855]	1.43	0.77
1:O:154[D]:GLN:CA	1:P:145[D]:TYR:CZ[2_855]	1.43	0.77
1:O:156[D]:VAL:CA	1:P:140[D]:ASP:CB[2_855]	1.43	0.77
1:O:169[D]:ILE:CD1	1:P:118[D]:ARG:C[2_855]	1.43	0.77
1:F:201[A]:ASP:CG	1:P:273[A]:GLU:CG[1_455]	1.44	0.76
1:F:201[A]:ASP:OD2	1:P:273[A]:GLU:CD[1_455]	1.44	0.76
1:M:150[A]:VAL:CB	1:N:178[A]:ASP:OD1[2_756]	1.44	0.76
1:M:168[A]:ARG:CZ	1:N:113[A]:VAL:CG2[2_756]	1.44	0.76
1:N:39[A]:ASP:CG	1:N:108[A]:GLU:CG[2_756]	1.44	0.76
1:M:167[B]:ARG:NE	1:N:111[B]:GLU:CA[2_756]	1.44	0.76
1:M:168[B]:ARG:CG	1:N:115[B]:LEU:CG[2_756]	1.44	0.76
1:N:112[B]:LYS:N	2:N:600[B]:UMP:O5'[2_756]	1.44	0.76
1:O:147[C]:GLY:CA	1:P:149[C]:GLY:CA[2_855]	1.44	0.76
1:O:157[C]:ILE:CD1	1:P:140[C]:ASP:OD2[2_855]	1.44	0.76
1:O:159[C]:THR:CB	1:P:122[C]:ASP:CG[2_855]	1.44	0.76
1:O:164[C]:PRO:N	1:P:120[C]:GLU:N[2_855]	1.44	0.76
1:O:167[C]:ARG:NH2	1:P:112[C]:LYS:N[2_855]	1.44	0.76
1:P:179[C]:LEU:CA	1:P:180[C]:PRO:CD[2_855]	1.44	0.76
1:O:132[D]:ARG:O	1:P:137[D]:GLU:N[2_855]	1.44	0.76
1:O:159[D]:THR:N	1:P:141[D]:ALA:CB[2_855]	1.44	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:159[D]:THR:OG1	1:P:122[D]:ASP:CG[2_855]	1.44	0.76
1:O:160[D]:ILE:CA	1:P:119[D]:ARG:NE[2_855]	1.44	0.76
1:O:168[D]:ARG:CG	1:P:115[D]:LEU:CB[2_855]	1.44	0.76
1:P:112[D]:LYS:CA	2:P:700[D]:UMP:O5'[2_855]	1.44	0.76
1:M:293[A]:ASP:N	1:N:144[A]:ASP:CG[2_756]	1.45	0.75
1:N:40[A]:ARG:CA	1:N:109[A]:PHE:CG[2_756]	1.45	0.75
1:M:135[B]:GLY:CA	1:N:177[B]:LYS:NZ[2_756]	1.45	0.75
1:M:154[B]:GLN:C	1:N:140[B]:ASP:O[2_756]	1.45	0.75
1:N:40[B]:ARG:N	1:N:108[B]:GLU:C[2_756]	1.45	0.75
1:N:43[B]:THR:N	1:N:108[B]:GLU:OE2[2_756]	1.45	0.75
1:O:153[C]:LEU:O	1:P:139[C]:THR:OG1[2_855]	1.45	0.75
1:O:154[C]:GLN:CG	1:P:145[C]:TYR:CD2[2_855]	1.45	0.75
1:O:155[C]:ARG:CD	1:P:124[C]:GLY:C[2_855]	1.45	0.75
1:O:168[C]:ARG:N	1:P:115[C]:LEU:C[2_855]	1.45	0.75
1:P:39[C]:ASP:CA	1:P:108[C]:GLU:CB[2_855]	1.45	0.75
1:P:39[C]:ASP:C	1:P:108[C]:GLU:C[2_855]	1.45	0.75
1:O:147[D]:GLY:C	1:P:150[D]:VAL:N[2_855]	1.45	0.75
1:O:152[D]:GLN:CB	1:P:138[D]:TYR:C[2_855]	1.45	0.75
1:O:155[D]:ARG:CB	1:P:138[D]:TYR:CE2[2_855]	1.45	0.75
1:O:293[D]:ASP:OD2	1:P:144[D]:ASP:CG[2_855]	1.45	0.75
1:P:40[D]:ARG:N	1:P:109[D]:PHE:CA[2_855]	1.45	0.75
1:P:40[D]:ARG:CG	1:P:109[D]:PHE:CD2[2_855]	1.45	0.75
1:P:114[D]:GLY:O	1:P:216[D]:ARG:CD[2_855]	1.45	0.75
1:M:131[A]:TRP:CG	1:N:137[A]:GLU:OE2[2_756]	1.46	0.74
1:M:156[A]:VAL:CB	1:N:140[A]:ASP:N[2_756]	1.46	0.74
1:M:167[A]:ARG:NH2	1:N:112[A]:LYS:CB[2_756]	1.46	0.74
1:N:113[A]:VAL:N	2:N:600[A]:UMP:OP2[2_756]	1.46	0.74
1:M:147[B]:GLY:CA	1:N:149[B]:GLY:N[2_756]	1.46	0.74
1:N:111[B]:GLU:C	2:N:600[B]:UMP:P[2_756]	1.46	0.74
1:O:157[C]:ILE:CB	1:P:142[C]:ASP:N[2_855]	1.46	0.74
1:O:159[C]:THR:CA	1:P:122[C]:ASP:OD1[2_855]	1.46	0.74
1:O:149[D]:GLY:O	1:P:135[D]:GLY:C[2_855]	1.46	0.74
1:O:156[D]:VAL:CG2	1:P:139[D]:THR:C[2_855]	1.46	0.74
1:P:40[D]:ARG:CB	1:P:109[D]:PHE:C[2_855]	1.46	0.74
1:M:131[A]:TRP:CA	1:N:137[A]:GLU:OE2[2_756]	1.47	0.73
1:M:161[A]:LYS:C	1:N:89[A]:ASP:CG[2_756]	1.47	0.73
1:M:162[A]:ASN:ND2	1:N:89[A]:ASP:C[2_756]	1.47	0.73
1:M:169[A]:ILE:C	1:N:117[A]:HIS:ND1[2_756]	1.47	0.73
1:N:39[A]:ASP:CA	1:N:109[A]:PHE:N[2_756]	1.47	0.73
1:N:39[A]:ASP:C	1:N:109[A]:PHE:N[2_756]	1.47	0.73
1:M:132[B]:ARG:NH2	1:N:144[B]:ASP:C[2_756]	1.47	0.73
1:M:153[B]:LEU:C	1:N:139[B]:THR:OG1[2_756]	1.47	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:167[B]:ARG:O	1:N:116[B]:GLY:N[2_756]	1.47	0.73
1:N:179[B]:LEU:O	1:N:180[B]:PRO:N[2_756]	1.47	0.73
1:O:162[C]:ASN:CB	1:P:90[C]:ALA:N[2_855]	1.47	0.73
1:O:169[C]:ILE:CD1	1:P:118[C]:ARG:C[2_855]	1.47	0.73
1:O:291[C]:ASP:OD1	1:P:144[C]:ASP:OD1[2_855]	1.47	0.73
1:O:168[D]:ARG:N	1:P:115[D]:LEU:O[2_855]	1.47	0.73
1:M:149[A]:GLY:O	1:N:135[A]:GLY:CA[2_756]	1.48	0.72
1:M:155[A]:ARG:NE	1:N:124[A]:GLY:C[2_756]	1.48	0.72
1:M:164[A]:PRO:N	1:N:120[A]:GLU:O[2_756]	1.48	0.72
1:M:168[A]:ARG:CD	1:N:115[A]:LEU:CG[2_756]	1.48	0.72
1:M:169[A]:ILE:CA	1:N:118[A]:ARG:CG[2_756]	1.48	0.72
1:N:40[A]:ARG:N	1:N:109[A]:PHE:CB[2_756]	1.48	0.72
1:N:114[A]:GLY:O	1:N:216[A]:ARG:CD[2_756]	1.48	0.72
1:M:152[B]:GLN:N	1:N:138[B]:TYR:C[2_756]	1.48	0.72
1:M:158[B]:ASP:OD2	1:N:141[B]:ALA:O[2_756]	1.48	0.72
1:M:161[B]:LYS:N	1:N:119[B]:ARG:CZ[2_756]	1.48	0.72
1:O:131[C]:TRP:CA	1:P:137[C]:GLU:CD[2_855]	1.48	0.72
1:O:155[C]:ARG:NH2	1:P:125[C]:PRO:CD[2_855]	1.48	0.72
1:O:163[C]:ASN:N	1:P:121[C]:GLY:N[2_855]	1.48	0.72
1:O:167[C]:ARG:CD	1:P:111[C]:GLU:CB[2_855]	1.48	0.72
1:O:169[C]:ILE:CG1	1:P:118[C]:ARG:N[2_855]	1.48	0.72
1:O:151[D]:ASP:C	1:P:138[D]:TYR:CA[2_855]	1.48	0.72
1:O:155[D]:ARG:NE	1:P:124[D]:GLY:O[2_855]	1.48	0.72
1:O:161[D]:LYS:CB	1:P:89[D]:ASP:OD1[2_855]	1.48	0.72
1:O:162[D]:ASN:CG	1:P:89[D]:ASP:O[2_855]	1.48	0.72
1:O:163[D]:ASN:CB	1:P:121[D]:GLY:C[2_855]	1.48	0.72
1:M:131[A]:TRP:O	1:N:137[A]:GLU:CB[2_756]	1.49	0.71
1:M:156[A]:VAL:C	1:N:140[A]:ASP:CA[2_756]	1.49	0.71
1:M:159[A]:THR:CG2	1:N:122[A]:ASP:C[2_756]	1.49	0.71
1:M:293[A]:ASP:OD2	1:N:144[A]:ASP:O[2_756]	1.49	0.71
1:N:179[A]:LEU:CB	1:N:180[A]:PRO:CA[2_756]	1.49	0.71
1:M:154[B]:GLN:CB	1:N:145[B]:TYR:CE2[2_756]	1.49	0.71
1:M:155[B]:ARG:CD	1:N:138[B]:TYR:CZ[2_756]	1.49	0.71
1:N:111[B]:GLU:N	2:N:600[B]:UMP:OP3[2_756]	1.49	0.71
1:O:153[C]:LEU:CA	1:P:139[C]:THR:N[2_855]	1.49	0.71
1:O:164[C]:PRO:CG	1:P:120[C]:GLU:CA[2_855]	1.49	0.71
1:O:166[C]:ASP:OD1	1:P:115[C]:LEU:CB[2_855]	1.49	0.71
1:O:147[D]:GLY:N	1:P:149[D]:GLY:C[2_855]	1.49	0.71
1:O:147[D]:GLY:CA	1:P:150[D]:VAL:N[2_855]	1.49	0.71
1:O:160[D]:ILE:CG2	1:P:119[D]:ARG:NH2[2_855]	1.49	0.71
1:O:165[D]:THR:OG1	1:P:107[D]:LYS:N[2_855]	1.49	0.71
1:M:151[A]:ASP:C	1:N:138[A]:TYR:N[2_756]	1.50	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:154[A]:GLN:CB	1:N:145[A]:TYR:CZ[2_756]	1.50	0.70
1:N:113[A]:VAL:CA	2:N:600[A]:UMP:P[2_756]	1.50	0.70
1:M:146[B]:LYS:CE	1:N:147[B]:GLY:CA[2_756]	1.50	0.70
1:M:147[B]:GLY:O	1:N:150[B]:VAL:N[2_756]	1.50	0.70
1:M:155[B]:ARG:CB	1:N:138[B]:TYR:CE2[2_756]	1.50	0.70
1:M:165[B]:THR:N	1:N:120[B]:GLU:N[2_756]	1.50	0.70
1:M:167[B]:ARG:CD	1:N:111[B]:GLU:CD[2_756]	1.50	0.70
1:B:146[C]:LYS:NZ	1:P:287[C]:GLU:CG[1_455]	1.50	0.70
1:O:147[C]:GLY:C	1:P:134[C]:PHE:O[2_855]	1.50	0.70
1:O:153[C]:LEU:N	1:P:139[C]:THR:N[2_855]	1.50	0.70
1:O:155[C]:ARG:CB	1:P:138[C]:TYR:CE2[2_855]	1.50	0.70
1:O:168[C]:ARG:CZ	1:P:113[C]:VAL:CB[2_855]	1.50	0.70
1:O:169[C]:ILE:CG1	1:P:118[C]:ARG:CG[2_855]	1.50	0.70
1:O:293[D]:ASP:CG	1:P:144[D]:ASP:CG[2_855]	1.50	0.70
1:P:40[D]:ARG:CG	1:P:109[D]:PHE:CD1[2_855]	1.50	0.70
1:M:152[A]:GLN:CA	1:N:138[A]:TYR:C[2_756]	1.51	0.69
1:M:155[A]:ARG:CZ	1:N:126[A]:VAL:N[2_756]	1.51	0.69
1:M:163[A]:ASN:CG	1:N:105[A]:GLY:CA[2_756]	1.51	0.69
1:M:164[A]:PRO:CB	1:N:120[A]:GLU:N[2_756]	1.51	0.69
1:M:165[A]:THR:CG2	1:N:107[A]:LYS:CB[2_756]	1.51	0.69
1:N:39[A]:ASP:OD1	1:N:108[A]:GLU:OE2[2_756]	1.51	0.69
1:M:157[B]:ILE:O	1:N:142[B]:ASP:OD2[2_756]	1.51	0.69
1:M:160[B]:ILE:C	1:N:119[B]:ARG:CD[2_756]	1.51	0.69
1:O:159[C]:THR:O	1:P:122[C]:ASP:CB[2_855]	1.51	0.69
1:O:291[C]:ASP:OD1	1:P:144[C]:ASP:CG[2_855]	1.51	0.69
1:O:131[D]:TRP:CB	1:P:137[D]:GLU:OE2[2_855]	1.51	0.69
1:O:160[D]:ILE:C	1:P:119[D]:ARG:CZ[2_855]	1.51	0.69
1:O:162[D]:ASN:CB	1:P:90[D]:ALA:N[2_855]	1.51	0.69
1:M:131[A]:TRP:C	1:N:137[A]:GLU:CD[2_756]	1.52	0.68
1:M:166[A]:ASP:OD2	1:N:110[A]:LEU:CD2[2_756]	1.52	0.68
1:N:176[A]:PRO:O	1:N:178[A]:ASP:CA[2_756]	1.52	0.68
1:M:151[B]:ASP:OD1	1:N:145[B]:TYR:CG[2_756]	1.52	0.68
1:M:293[B]:ASP:OD2	1:N:144[B]:ASP:OD1[2_756]	1.52	0.68
1:N:39[B]:ASP:OD2	1:N:108[B]:GLU:CG[2_756]	1.52	0.68
1:N:113[B]:VAL:N	2:N:600[B]:UMP:OP2[2_756]	1.52	0.68
1:O:154[C]:GLN:CB	1:P:145[C]:TYR:CE1[2_855]	1.52	0.68
1:O:162[C]:ASN:ND2	1:P:89[C]:ASP:CB[2_855]	1.52	0.68
1:O:164[C]:PRO:O	1:P:118[C]:ARG:O[2_855]	1.52	0.68
1:P:179[C]:LEU:CD2	1:P:180[C]:PRO:CB[2_855]	1.52	0.68
1:O:147[D]:GLY:O	1:P:150[D]:VAL:N[2_855]	1.52	0.68
1:O:149[D]:GLY:O	1:P:136[D]:ALA:N[2_855]	1.52	0.68
1:P:41[D]:THR:CG2	1:P:112[D]:LYS:CD[2_855]	1.52	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:112[D]:LYS:CE	1:P:317[D]:ALA:C[2_855]	1.52	0.68
1:P:177[D]:LYS:O	1:P:178[D]:ASP:N[2_855]	1.52	0.68
1:M:159[A]:THR:O	1:N:122[A]:ASP:CA[2_756]	1.53	0.67
1:M:164[A]:PRO:C	1:N:120[A]:GLU:CA[2_756]	1.53	0.67
1:N:39[A]:ASP:CA	1:N:108[A]:GLU:C[2_756]	1.53	0.67
1:M:147[B]:GLY:CA	1:N:149[B]:GLY:C[2_756]	1.53	0.67
1:M:149[B]:GLY:N	1:N:135[B]:GLY:CA[2_756]	1.53	0.67
1:M:149[B]:GLY:C	1:N:136[B]:ALA:O[2_756]	1.53	0.67
1:M:155[B]:ARG:CG	1:N:138[B]:TYR:OH[2_756]	1.53	0.67
1:M:157[B]:ILE:CA	1:N:142[B]:ASP:N[2_756]	1.53	0.67
1:M:168[B]:ARG:CG	1:N:115[B]:LEU:CA[2_756]	1.53	0.67
1:N:40[B]:ARG:CA	1:N:109[B]:PHE:CB[2_756]	1.53	0.67
1:N:40[B]:ARG:CD	1:N:109[B]:PHE:O[2_756]	1.53	0.67
1:N:40[B]:ARG:NH2	1:N:112[B]:LYS:CB[2_756]	1.53	0.67
1:O:157[C]:ILE:CA	1:P:141[C]:ALA:N[2_855]	1.53	0.67
1:O:158[C]:ASP:N	1:P:141[C]:ALA:CB[2_855]	1.53	0.67
1:O:293[C]:ASP:OD1	1:P:148[C]:LYS:NZ[2_855]	1.53	0.67
1:P:113[C]:VAL:C	2:P:700[C]:UMP:OP2[2_855]	1.53	0.67
1:P:176[C]:PRO:C	1:P:177[C]:LYS:O[2_855]	1.53	0.67
1:O:131[D]:TRP:C	1:P:137[D]:GLU:CD[2_855]	1.53	0.67
1:O:167[D]:ARG:NE	1:P:111[D]:GLU:N[2_855]	1.53	0.67
1:P:179[D]:LEU:CD1	1:P:181[D]:LEU:N[2_855]	1.53	0.67
1:M:153[A]:LEU:CD1	1:N:139[A]:THR:OG1[2_756]	1.54	0.66
1:M:157[A]:ILE:C	1:N:141[A]:ALA:C[2_756]	1.54	0.66
1:M:157[A]:ILE:CG2	1:N:141[A]:ALA:C[2_756]	1.54	0.66
1:M:160[A]:ILE:C	1:N:119[A]:ARG:NE[2_756]	1.54	0.66
1:N:37[A]:ARG:NH2	1:N:107[A]:LYS:CG[2_756]	1.54	0.66
1:O:153[C]:LEU:C	1:P:139[C]:THR:OG1[2_855]	1.54	0.66
1:O:154[C]:GLN:CB	1:P:145[C]:TYR:OH[2_855]	1.54	0.66
1:O:155[C]:ARG:CB	1:P:138[C]:TYR:CG[2_855]	1.54	0.66
1:O:161[C]:LYS:CB	1:P:89[C]:ASP:OD1[2_855]	1.54	0.66
1:P:38[C]:PRO:C	1:P:108[C]:GLU:CB[2_855]	1.54	0.66
1:O:131[D]:TRP:CA	1:P:137[D]:GLU:OE1[2_855]	1.54	0.66
1:O:147[D]:GLY:N	1:P:149[D]:GLY:O[2_855]	1.54	0.66
1:O:150[D]:VAL:CA	1:P:136[D]:ALA:O[2_855]	1.54	0.66
1:O:157[D]:ILE:CB	1:P:142[D]:ASP:C[2_855]	1.54	0.66
1:O:167[D]:ARG:N	1:P:115[D]:LEU:O[2_855]	1.54	0.66
1:P:114[D]:GLY:CA	1:P:216[D]:ARG:NH1[2_855]	1.54	0.66
1:P:179[D]:LEU:CD2	1:P:180[D]:PRO:CB[2_855]	1.54	0.66
1:M:154[A]:GLN:NE2	1:N:143[A]:GLY:O[2_756]	1.55	0.65
1:M:155[A]:ARG:NE	1:N:125[A]:PRO:N[2_756]	1.55	0.65
1:M:293[A]:ASP:CA	1:N:144[A]:ASP:CG[2_756]	1.55	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:41[A]:THR:CG2	1:N:112[A]:LYS:CE[2_756]	1.55	0.65
1:M:158[B]:ASP:CA	1:N:141[B]:ALA:CB[2_756]	1.55	0.65
1:M:167[B]:ARG:CG	1:N:111[B]:GLU:CG[2_756]	1.55	0.65
1:M:168[B]:ARG:NH2	1:N:115[B]:LEU:CD1[2_756]	1.55	0.65
1:N:40[B]:ARG:NH2	1:N:112[B]:LYS:C[2_756]	1.55	0.65
1:N:44[B]:GLY:N	1:N:108[B]:GLU:OE1[2_756]	1.55	0.65
1:O:134[C]:PHE:O	1:P:177[C]:LYS:CE[2_855]	1.55	0.65
1:O:153[C]:LEU:CA	1:P:139[C]:THR:CG2[2_855]	1.55	0.65
1:O:158[C]:ASP:CB	1:P:88[C]:THR:OG1[2_855]	1.55	0.65
1:O:167[C]:ARG:N	1:P:115[C]:LEU:C[2_855]	1.55	0.65
1:O:168[C]:ARG:NH1	1:P:113[C]:VAL:CA[2_855]	1.55	0.65
1:O:147[D]:GLY:CA	1:P:149[D]:GLY:O[2_855]	1.55	0.65
1:O:152[D]:GLN:N	1:P:137[D]:GLU:C[2_855]	1.55	0.65
1:O:163[D]:ASN:O	1:P:119[D]:ARG:O[2_855]	1.55	0.65
1:O:167[D]:ARG:CD	1:P:111[D]:GLU:CA[2_855]	1.55	0.65
1:O:192[D]:GLN:CG	1:P:117[D]:HIS:CB[2_855]	1.55	0.65
1:M:149[A]:GLY:O	1:N:135[A]:GLY:N[2_756]	1.56	0.64
1:M:152[A]:GLN:O	1:N:139[A]:THR:N[2_756]	1.56	0.64
1:M:157[A]:ILE:CA	1:N:141[A]:ALA:C[2_756]	1.56	0.64
1:M:169[A]:ILE:CG1	1:N:118[A]:ARG:CA[2_756]	1.56	0.64
1:N:179[A]:LEU:CG	1:N:180[A]:PRO:CB[2_756]	1.56	0.64
1:M:150[B]:VAL:C	1:N:137[B]:GLU:C[2_756]	1.56	0.64
1:M:157[B]:ILE:CG2	1:N:142[B]:ASP:CA[2_756]	1.56	0.64
1:M:163[B]:ASN:O	1:N:119[B]:ARG:C[2_756]	1.56	0.64
1:N:110[B]:LEU:O	2:N:600[B]:UMP:OP3[2_756]	1.56	0.64
1:O:154[C]:GLN:C	1:P:145[C]:TYR:OH[2_855]	1.56	0.64
1:O:157[C]:ILE:C	1:P:141[C]:ALA:CA[2_855]	1.56	0.64
1:O:164[C]:PRO:N	1:P:120[C]:GLU:C[2_855]	1.56	0.64
1:O:157[D]:ILE:N	1:P:141[D]:ALA:N[2_855]	1.56	0.64
1:P:39[D]:ASP:C	1:P:109[D]:PHE:N[2_855]	1.56	0.64
1:P:110[D]:LEU:O	2:P:700[D]:UMP:OP3[2_855]	1.56	0.64
1:P:176[D]:PRO:O	1:P:178[D]:ASP:CA[2_855]	1.56	0.64
1:M:132[A]:ARG:O	1:N:136[A]:ALA:CA[2_756]	1.57	0.63
1:M:152[A]:GLN:O	1:N:138[A]:TYR:C[2_756]	1.57	0.63
1:M:154[A]:GLN:CG	1:N:145[A]:TYR:CE2[2_756]	1.57	0.63
1:M:155[A]:ARG:NE	1:N:125[A]:PRO:CA[2_756]	1.57	0.63
1:M:162[A]:ASN:CG	1:N:89[A]:ASP:CA[2_756]	1.57	0.63
1:M:169[A]:ILE:O	1:N:117[A]:HIS:CE1[2_756]	1.57	0.63
1:M:131[B]:TRP:N	1:N:137[B]:GLU:OE2[2_756]	1.57	0.63
1:M:151[B]:ASP:O	1:N:145[B]:TYR:OH[2_756]	1.57	0.63
1:M:160[B]:ILE:CA	1:N:119[B]:ARG:CZ[2_756]	1.57	0.63
1:N:111[B]:GLU:O	2:N:600[B]:UMP:C5'[2_756]	1.57	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:179[B]:LEU:CD1	1:N:181[B]:LEU:CG[2_756]	1.57	0.63
1:O:151[C]:ASP:OD2	1:P:137[C]:GLU:C[2_855]	1.57	0.63
1:O:167[C]:ARG:CG	1:P:111[C]:GLU:CA[2_855]	1.57	0.63
1:P:40[C]:ARG:CB	1:P:109[C]:PHE:O[2_855]	1.57	0.63
1:O:132[D]:ARG:NH1	1:P:148[D]:LYS:NZ[2_855]	1.57	0.63
1:O:136[D]:ALA:CA	1:O:177[D]:LYS:NZ[2_855]	1.57	0.63
1:O:149[D]:GLY:CA	1:P:135[D]:GLY:C[2_855]	1.57	0.63
1:O:153[D]:LEU:C	1:P:139[D]:THR:OG1[2_855]	1.57	0.63
1:O:155[D]:ARG:CZ	1:P:124[D]:GLY:O[2_855]	1.57	0.63
1:O:156[D]:VAL:CB	1:P:140[D]:ASP:N[2_855]	1.57	0.63
1:O:161[D]:LYS:C	1:P:89[D]:ASP:OD1[2_855]	1.57	0.63
1:O:169[D]:ILE:C	1:P:117[D]:HIS:ND1[2_855]	1.57	0.63
1:M:132[A]:ARG:CA	1:N:137[A]:GLU:CB[2_756]	1.58	0.62
1:M:155[A]:ARG:CD	1:N:125[A]:PRO:N[2_756]	1.58	0.62
1:M:156[A]:VAL:CG2	1:N:139[A]:THR:C[2_756]	1.58	0.62
1:M:157[A]:ILE:N	1:N:140[A]:ASP:O[2_756]	1.58	0.62
1:M:157[A]:ILE:CA	1:N:141[A]:ALA:CA[2_756]	1.58	0.62
1:N:111[A]:GLU:O	1:N:217[A]:SER:OG[2_756]	1.58	0.62
1:M:154[B]:GLN:NE2	1:N:143[B]:GLY:C[2_756]	1.58	0.62
1:M:157[B]:ILE:N	1:N:140[B]:ASP:OD2[2_756]	1.58	0.62
1:M:157[B]:ILE:CG1	1:N:142[B]:ASP:C[2_756]	1.58	0.62
1:M:161[B]:LYS:N	1:N:119[B]:ARG:NH1[2_756]	1.58	0.62
1:M:162[B]:ASN:CG	1:N:89[B]:ASP:CG[2_756]	1.58	0.62
1:M:167[B]:ARG:CA	1:N:116[B]:GLY:CA[2_756]	1.58	0.62
1:M:168[B]:ARG:C	1:N:118[B]:ARG:CG[2_756]	1.58	0.62
1:M:293[B]:ASP:OD1	1:N:144[B]:ASP:OD2[2_756]	1.58	0.62
1:N:179[B]:LEU:CB	1:N:180[B]:PRO:C[2_756]	1.58	0.62
1:O:132[C]:ARG:N	1:P:137[C]:GLU:CG[2_855]	1.58	0.62
1:O:153[C]:LEU:N	1:P:138[C]:TYR:O[2_855]	1.58	0.62
1:O:157[D]:ILE:N	1:P:140[D]:ASP:C[2_855]	1.58	0.62
1:O:161[D]:LYS:CA	1:P:89[D]:ASP:OD1[2_855]	1.58	0.62
1:O:163[D]:ASN:OD1	1:P:105[D]:GLY:C[2_855]	1.58	0.62
1:O:169[D]:ILE:CA	1:P:118[D]:ARG:CG[2_855]	1.58	0.62
1:O:170[D]:ILE:N	1:P:117[D]:HIS:CE1[2_855]	1.58	0.62
1:O:292[D]:ILE:CG2	1:P:144[D]:ASP:N[2_855]	1.58	0.62
1:M:149[A]:GLY:N	1:N:135[A]:GLY:CA[2_756]	1.59	0.61
1:M:160[A]:ILE:O	1:N:119[A]:ARG:NE[2_756]	1.59	0.61
1:M:165[A]:THR:N	1:N:120[A]:GLU:CA[2_756]	1.59	0.61
1:M:167[A]:ARG:CG	1:N:111[A]:GLU:N[2_756]	1.59	0.61
1:M:242[A]:THR:CG2	1:N:142[A]:ASP:OD2[2_756]	1.59	0.61
1:M:293[A]:ASP:OD2	1:N:144[A]:ASP:C[2_756]	1.59	0.61
1:M:152[B]:GLN:CB	1:N:138[B]:TYR:C[2_756]	1.59	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:159[B]:THR:N	1:N:141[B]:ALA:CB[2_756]	1.59	0.61
1:M:163[B]:ASN:CA	1:N:121[B]:GLY:CA[2_756]	1.59	0.61
1:N:114[B]:GLY:C	1:N:216[B]:ARG:NH1[2_756]	1.59	0.61
1:O:160[C]:ILE:CA	1:P:119[C]:ARG:CG[2_855]	1.59	0.61
1:O:168[C]:ARG:C	1:P:117[C]:HIS:NE2[2_855]	1.59	0.61
1:P:114[C]:GLY:CA	1:P:216[C]:ARG:CZ[2_855]	1.59	0.61
1:O:131[D]:TRP:C	1:P:137[D]:GLU:CG[2_855]	1.59	0.61
1:P:39[D]:ASP:O	1:P:106[D]:SER:OG[2_855]	1.59	0.61
1:P:113[D]:VAL:N	2:P:700[D]:UMP:OP2[2_855]	1.59	0.61
1:M:155[A]:ARG:O	1:N:138[A]:TYR:CZ[2_756]	1.60	0.60
1:M:155[A]:ARG:NH2	1:N:125[A]:PRO:N[2_756]	1.60	0.60
1:M:160[A]:ILE:CG2	1:N:119[A]:ARG:CD[2_756]	1.60	0.60
1:M:164[A]:PRO:C	1:N:119[A]:ARG:C[2_756]	1.60	0.60
1:N:179[A]:LEU:CD2	1:N:180[A]:PRO:CG[2_756]	1.60	0.60
1:M:131[B]:TRP:N	1:N:137[B]:GLU:CD[2_756]	1.60	0.60
1:M:154[B]:GLN:O	1:N:141[B]:ALA:C[2_756]	1.60	0.60
1:M:167[B]:ARG:CD	1:N:111[B]:GLU:CB[2_756]	1.60	0.60
1:M:168[B]:ARG:O	1:N:117[B]:HIS:CE1[2_756]	1.60	0.60
1:M:168[B]:ARG:NH1	1:N:113[B]:VAL:CB[2_756]	1.60	0.60
1:N:179[B]:LEU:C	1:N:180[B]:PRO:CA[2_756]	1.60	0.60
1:O:148[C]:LYS:CB	1:O:177[C]:LYS:CE[2_855]	1.60	0.60
1:O:151[C]:ASP:N	1:P:136[C]:ALA:O[2_855]	1.60	0.60
1:O:161[C]:LYS:CB	1:P:119[C]:ARG:NH1[2_855]	1.60	0.60
1:O:164[D]:PRO:O	1:P:120[D]:GLU:N[2_855]	1.60	0.60
1:P:112[D]:LYS:C	2:P:700[D]:UMP:C5'[2_855]	1.60	0.60
1:P:179[D]:LEU:CB	1:P:181[D]:LEU:N[2_855]	1.60	0.60
1:M:152[A]:GLN:C	1:N:138[A]:TYR:O[2_756]	1.61	0.59
1:M:155[A]:ARG:CA	1:N:138[A]:TYR:CD1[2_756]	1.61	0.59
1:M:155[A]:ARG:NH2	1:N:125[A]:PRO:C[2_756]	1.61	0.59
1:M:167[A]:ARG:O	1:N:115[A]:LEU:N[2_756]	1.61	0.59
1:M:155[B]:ARG:CB	1:N:138[B]:TYR:CE1[2_756]	1.61	0.59
1:N:177[B]:LYS:C	1:N:178[B]:ASP:N[2_756]	1.61	0.59
1:O:164[C]:PRO:CG	1:P:120[C]:GLU:N[2_855]	1.61	0.59
1:O:168[C]:ARG:CZ	1:P:113[C]:VAL:O[2_855]	1.61	0.59
1:O:169[C]:ILE:N	1:P:117[C]:HIS:NE2[2_855]	1.61	0.59
1:O:242[C]:THR:CA	1:P:142[C]:ASP:OD1[2_855]	1.61	0.59
1:O:147[D]:GLY:C	1:P:149[D]:GLY:C[2_855]	1.61	0.59
1:O:151[D]:ASP:N	1:P:136[D]:ALA:O[2_855]	1.61	0.59
1:O:155[D]:ARG:CZ	1:P:125[D]:PRO:N[2_855]	1.61	0.59
1:O:156[D]:VAL:CA	1:P:140[D]:ASP:C[2_855]	1.61	0.59
1:O:157[D]:ILE:C	1:P:142[D]:ASP:N[2_855]	1.61	0.59
1:O:164[D]:PRO:CA	1:P:119[D]:ARG:C[2_855]	1.61	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:166[D]:ASP:O	1:P:118[D]:ARG:O[2_855]	1.61	0.59
1:P:39[D]:ASP:CB	1:P:108[D]:GLU:C[2_855]	1.61	0.59
1:P:40[D]:ARG:CB	1:P:109[D]:PHE:CG[2_855]	1.61	0.59
1:P:111[D]:GLU:OE1	1:P:255[D]:ASP:OD2[2_855]	1.61	0.59
1:M:155[A]:ARG:CB	1:N:138[A]:TYR:CD1[2_756]	1.62	0.58
1:M:155[A]:ARG:CZ	1:N:125[A]:PRO:N[2_756]	1.62	0.58
1:M:157[A]:ILE:CG2	1:N:141[A]:ALA:O[2_756]	1.62	0.58
1:M:158[A]:ASP:CA	1:N:141[A]:ALA:CB[2_756]	1.62	0.58
1:M:163[A]:ASN:N	1:N:121[A]:GLY:O[2_756]	1.62	0.58
1:M:166[A]:ASP:CB	1:N:110[A]:LEU:CD1[2_756]	1.62	0.58
1:M:168[A]:ARG:CG	1:N:115[A]:LEU:CD2[2_756]	1.62	0.58
1:N:39[A]:ASP:CA	1:N:108[A]:GLU:CA[2_756]	1.62	0.58
1:M:155[B]:ARG:CZ	1:N:124[B]:GLY:C[2_756]	1.62	0.58
1:M:157[B]:ILE:O	1:N:119[B]:ARG:NH1[2_756]	1.62	0.58
1:M:157[B]:ILE:CB	1:N:142[B]:ASP:N[2_756]	1.62	0.58
1:M:165[B]:THR:CA	1:N:107[B]:LYS:CD[2_756]	1.62	0.58
1:M:167[B]:ARG:O	1:N:117[B]:HIS:N[2_756]	1.62	0.58
1:M:168[B]:ARG:CD	1:N:115[B]:LEU:CA[2_756]	1.62	0.58
1:M:168[B]:ARG:CZ	1:N:113[B]:VAL:CG2[2_756]	1.62	0.58
1:N:42[B]:GLY:N	1:N:108[B]:GLU:OE2[2_756]	1.62	0.58
1:N:112[B]:LYS:NZ	1:N:317[B]:ALA:C[2_756]	1.62	0.58
1:O:131[C]:TRP:C	1:P:137[C]:GLU:OE1[2_855]	1.62	0.58
1:O:153[C]:LEU:C	1:P:139[C]:THR:CA[2_855]	1.62	0.58
1:O:157[C]:ILE:CB	1:P:140[C]:ASP:OD2[2_855]	1.62	0.58
1:O:159[C]:THR:CA	1:P:122[C]:ASP:CA[2_855]	1.62	0.58
1:O:164[C]:PRO:N	1:P:119[C]:ARG:O[2_855]	1.62	0.58
1:O:168[C]:ARG:CB	1:P:115[C]:LEU:CG[2_855]	1.62	0.58
1:O:154[D]:GLN:CB	1:P:145[D]:TYR:CZ[2_855]	1.62	0.58
1:O:156[D]:VAL:C	1:P:140[D]:ASP:C[2_855]	1.62	0.58
1:O:162[D]:ASN:CG	1:P:89[D]:ASP:C[2_855]	1.62	0.58
1:O:162[D]:ASN:ND2	1:P:89[D]:ASP:CA[2_855]	1.62	0.58
1:M:148[A]:LYS:CB	1:M:177[A]:LYS:CG[2_756]	1.63	0.57
1:M:152[A]:GLN:CA	1:N:138[A]:TYR:CB[2_756]	1.63	0.57
1:M:155[A]:ARG:CB	1:N:138[A]:TYR:CG[2_756]	1.63	0.57
1:M:156[A]:VAL:CB	1:N:139[A]:THR:O[2_756]	1.63	0.57
1:M:165[A]:THR:CB	1:N:107[A]:LYS:CB[2_756]	1.63	0.57
1:M:167[A]:ARG:O	1:N:115[A]:LEU:C[2_756]	1.63	0.57
1:M:168[A]:ARG:CZ	1:N:113[A]:VAL:CB[2_756]	1.63	0.57
1:M:292[A]:ILE:CG2	1:N:144[A]:ASP:CA[2_756]	1.63	0.57
1:N:40[A]:ARG:NE	1:N:113[A]:VAL:CG1[2_756]	1.63	0.57
1:N:113[A]:VAL:O	1:N:216[A]:ARG:NH2[2_756]	1.63	0.57
1:M:157[B]:ILE:CA	1:N:142[B]:ASP:CB[2_756]	1.63	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:179[B]:LEU:O	1:N:180[B]:PRO:CA[2_756]	1.63	0.57
1:O:150[C]:VAL:CB	1:P:178[C]:ASP:OD1[2_855]	1.63	0.57
1:O:151[C]:ASP:O	1:P:138[C]:TYR:N[2_855]	1.63	0.57
1:P:38[C]:PRO:O	1:P:108[C]:GLU:N[2_855]	1.63	0.57
1:P:39[C]:ASP:CB	1:P:108[C]:GLU:O[2_855]	1.63	0.57
1:O:155[D]:ARG:NH1	1:P:125[D]:PRO:CA[2_855]	1.63	0.57
1:O:160[D]:ILE:O	1:P:119[D]:ARG:CD[2_855]	1.63	0.57
1:O:164[D]:PRO:O	1:P:119[D]:ARG:CA[2_855]	1.63	0.57
1:O:164[D]:PRO:O	1:P:119[D]:ARG:C[2_855]	1.63	0.57
1:P:112[D]:LYS:CE	1:P:317[D]:ALA:OXT[2_855]	1.63	0.57
1:N:39[A]:ASP:CB	1:N:108[A]:GLU:O[2_756]	1.64	0.56
1:N:111[A]:GLU:CG	1:N:255[A]:ASP:OD1[2_756]	1.64	0.56
1:M:153[B]:LEU:O	1:N:140[B]:ASP:OD2[2_756]	1.64	0.56
1:M:160[B]:ILE:C	1:N:119[B]:ARG:CZ[2_756]	1.64	0.56
1:M:163[B]:ASN:O	1:N:120[B]:GLU:C[2_756]	1.64	0.56
1:N:40[B]:ARG:CG	1:N:109[B]:PHE:CB[2_756]	1.64	0.56
1:O:155[C]:ARG:CZ	1:P:125[C]:PRO:CD[2_855]	1.64	0.56
1:O:161[C]:LYS:CD	1:P:142[C]:ASP:OD2[2_855]	1.64	0.56
1:P:114[C]:GLY:N	2:P:700[C]:UMP:OP2[2_855]	1.64	0.56
1:P:179[C]:LEU:N	1:P:180[C]:PRO:CD[2_855]	1.64	0.56
1:O:134[D]:PHE:CD1	1:P:177[D]:LYS:CE[2_855]	1.64	0.56
1:O:147[D]:GLY:C	1:P:149[D]:GLY:CA[2_855]	1.64	0.56
1:O:160[D]:ILE:CB	1:P:119[D]:ARG:CZ[2_855]	1.64	0.56
1:O:163[D]:ASN:C	1:P:120[D]:GLU:O[2_855]	1.64	0.56
1:O:167[D]:ARG:CG	1:P:111[D]:GLU:CG[2_855]	1.64	0.56
1:O:169[D]:ILE:CD1	1:P:118[D]:ARG:CA[2_855]	1.64	0.56
1:M:152[A]:GLN:CA	1:N:138[A]:TYR:O[2_756]	1.65	0.55
1:M:155[B]:ARG:C	1:N:140[B]:ASP:O[2_756]	1.65	0.55
1:M:163[B]:ASN:CB	1:N:121[B]:GLY:C[2_756]	1.65	0.55
1:N:39[B]:ASP:CG	1:N:108[B]:GLU:CA[2_756]	1.65	0.55
1:N:40[B]:ARG:NH2	1:N:112[B]:LYS:CG[2_756]	1.65	0.55
1:O:155[C]:ARG:NH2	1:P:125[C]:PRO:N[2_855]	1.65	0.55
1:O:162[C]:ASN:CB	1:P:121[C]:GLY:O[2_855]	1.65	0.55
1:O:162[C]:ASN:OD1	1:P:89[C]:ASP:O[2_855]	1.65	0.55
1:O:163[C]:ASN:O	1:P:110[C]:LEU:CD1[2_855]	1.65	0.55
1:O:164[C]:PRO:N	1:P:119[C]:ARG:C[2_855]	1.65	0.55
1:O:166[C]:ASP:O	1:P:115[C]:LEU:O[2_855]	1.65	0.55
1:O:167[C]:ARG:NE	1:P:111[C]:GLU:CA[2_855]	1.65	0.55
1:O:193[C]:PHE:O	1:P:117[C]:HIS:CA[2_855]	1.65	0.55
1:O:151[D]:ASP:OD1	1:P:145[D]:TYR:CG[2_855]	1.65	0.55
1:O:165[D]:THR:CB	1:P:107[D]:LYS:CB[2_855]	1.65	0.55
1:O:293[D]:ASP:CB	1:P:144[D]:ASP:CG[2_855]	1.65	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:179[D]:LEU:CD1	1:P:181[D]:LEU:CA[2_855]	1.65	0.55
1:M:156[A]:VAL:CB	1:N:139[A]:THR:C[2_756]	1.66	0.54
1:M:163[A]:ASN:CA	1:N:121[A]:GLY:C[2_756]	1.66	0.54
1:M:164[A]:PRO:N	1:N:120[A]:GLU:CA[2_756]	1.66	0.54
1:M:164[A]:PRO:CA	1:N:120[A]:GLU:C[2_756]	1.66	0.54
1:M:164[A]:PRO:CG	1:N:120[A]:GLU:O[2_756]	1.66	0.54
1:N:40[A]:ARG:CA	1:N:109[A]:PHE:CA[2_756]	1.66	0.54
1:N:113[A]:VAL:C	2:N:600[A]:UMP:OP2[2_756]	1.66	0.54
1:M:151[B]:ASP:CB	1:N:145[B]:TYR:CD1[2_756]	1.66	0.54
1:M:152[B]:GLN:CA	1:N:138[B]:TYR:O[2_756]	1.66	0.54
1:M:157[B]:ILE:CG1	1:N:142[B]:ASP:CB[2_756]	1.66	0.54
1:O:152[C]:GLN:O	1:P:138[C]:TYR:C[2_855]	1.66	0.54
1:O:162[C]:ASN:CG	1:P:90[C]:ALA:N[2_855]	1.66	0.54
1:O:242[C]:THR:CB	1:P:142[C]:ASP:OD1[2_855]	1.66	0.54
1:O:132[D]:ARG:C	1:P:137[D]:GLU:N[2_855]	1.66	0.54
1:M:155[A]:ARG:NH1	1:N:125[A]:PRO:O[2_756]	1.67	0.53
1:M:157[A]:ILE:CG1	1:N:142[A]:ASP:C[2_756]	1.67	0.53
1:M:162[A]:ASN:CA	1:N:89[A]:ASP:OD2[2_756]	1.67	0.53
1:M:164[A]:PRO:CA	1:N:119[A]:ARG:O[2_756]	1.67	0.53
1:M:164[A]:PRO:O	1:N:119[A]:ARG:C[2_756]	1.67	0.53
1:N:44[A]:GLY:N	1:N:108[A]:GLU:OE1[2_756]	1.67	0.53
1:N:112[A]:LYS:CA	2:N:600[A]:UMP:O5'[2_756]	1.67	0.53
1:M:153[B]:LEU:CA	1:N:139[B]:THR:CB[2_756]	1.67	0.53
1:M:156[B]:VAL:CA	1:N:140[B]:ASP:CG[2_756]	1.67	0.53
1:M:158[B]:ASP:C	1:N:141[B]:ALA:CB[2_756]	1.67	0.53
1:M:162[B]:ASN:ND2	1:N:89[B]:ASP:CG[2_756]	1.67	0.53
1:O:131[C]:TRP:CA	1:P:137[C]:GLU:OE2[2_855]	1.67	0.53
1:O:152[C]:GLN:O	1:P:138[C]:TYR:O[2_855]	1.67	0.53
1:O:149[D]:GLY:N	1:P:135[D]:GLY:C[2_855]	1.67	0.53
1:O:159[D]:THR:CG2	1:P:122[D]:ASP:CA[2_855]	1.67	0.53
1:O:167[D]:ARG:C	1:P:116[D]:GLY:N[2_855]	1.67	0.53
1:P:112[D]:LYS:NZ	1:P:317[D]:ALA:C[2_855]	1.67	0.53
1:P:177[D]:LYS:C	1:P:178[D]:ASP:N[2_855]	1.67	0.53
1:M:147[A]:GLY:N	1:N:149[A]:GLY:O[2_756]	1.68	0.52
1:M:150[A]:VAL:CG2	1:N:178[A]:ASP:CG[2_756]	1.68	0.52
1:M:151[A]:ASP:OD1	1:N:145[A]:TYR:CD1[2_756]	1.68	0.52
1:M:155[A]:ARG:CD	1:N:124[A]:GLY:CA[2_756]	1.68	0.52
1:M:162[A]:ASN:N	1:N:89[A]:ASP:CG[2_756]	1.68	0.52
1:M:162[A]:ASN:OD1	1:N:89[A]:ASP:C[2_756]	1.68	0.52
1:M:149[B]:GLY:C	1:N:135[B]:GLY:C[2_756]	1.68	0.52
1:M:159[B]:THR:OG1	1:N:122[B]:ASP:CB[2_756]	1.68	0.52
1:N:39[B]:ASP:C	1:N:108[B]:GLU:N[2_756]	1.68	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:114[B]:GLY:O	1:N:216[B]:ARG:NH2[2_756]	1.68	0.52
1:B:146[C]:LYS:NZ	1:P:287[C]:GLU:CB[1_455]	1.68	0.52
1:O:155[C]:ARG:N	1:P:138[C]:TYR:CD1[2_855]	1.68	0.52
1:O:155[C]:ARG:NH1	1:P:125[C]:PRO:O[2_855]	1.68	0.52
1:O:167[C]:ARG:N	1:P:115[C]:LEU:O[2_855]	1.68	0.52
1:O:169[C]:ILE:O	1:P:117[C]:HIS:CG[2_855]	1.68	0.52
1:O:150[D]:VAL:CG2	1:P:178[D]:ASP:CG[2_855]	1.68	0.52
1:O:153[D]:LEU:CA	1:P:139[D]:THR:CB[2_855]	1.68	0.52
1:O:155[D]:ARG:NH1	1:P:125[D]:PRO:C[2_855]	1.68	0.52
1:O:162[D]:ASN:CB	1:P:89[D]:ASP:OD2[2_855]	1.68	0.52
1:O:170[D]:ILE:CG1	1:P:117[D]:HIS:NE2[2_855]	1.68	0.52
1:P:39[D]:ASP:OD2	1:P:108[D]:GLU:CG[2_855]	1.68	0.52
1:M:131[A]:TRP:N	1:N:137[A]:GLU:CD[2_756]	1.69	0.51
1:M:131[A]:TRP:CB	1:N:137[A]:GLU:OE1[2_756]	1.69	0.51
1:M:151[A]:ASP:CB	1:N:129[A]:PHE:CZ[2_756]	1.69	0.51
1:M:166[A]:ASP:CB	1:N:110[A]:LEU:CD2[2_756]	1.69	0.51
1:M:166[A]:ASP:CG	1:N:110[A]:LEU:CD2[2_756]	1.69	0.51
1:M:167[A]:ARG:CA	1:N:116[A]:GLY:N[2_756]	1.69	0.51
1:M:168[A]:ARG:CA	1:N:115[A]:LEU:CD2[2_756]	1.69	0.51
1:M:151[B]:ASP:C	1:N:138[B]:TYR:CA[2_756]	1.69	0.51
1:M:159[B]:THR:OG1	1:N:122[B]:ASP:OD2[2_756]	1.69	0.51
1:M:165[B]:THR:CB	1:N:107[B]:LYS:CB[2_756]	1.69	0.51
1:M:166[B]:ASP:OD1	1:N:118[B]:ARG:CB[2_756]	1.69	0.51
1:M:169[B]:ILE:N	1:N:118[B]:ARG:CG[2_756]	1.69	0.51
1:N:114[B]:GLY:N	2:N:600[B]:UMP:OP2[2_756]	1.69	0.51
1:N:179[B]:LEU:CA	1:N:180[B]:PRO:CD[2_756]	1.69	0.51
1:O:152[C]:GLN:C	1:P:139[C]:THR:N[2_855]	1.69	0.51
1:O:158[C]:ASP:CA	1:P:141[C]:ALA:CA[2_855]	1.69	0.51
1:O:161[C]:LYS:N	1:P:119[C]:ARG:NE[2_855]	1.69	0.51
1:P:40[C]:ARG:N	1:P:108[C]:GLU:C[2_855]	1.69	0.51
1:O:151[D]:ASP:C	1:P:138[D]:TYR:N[2_855]	1.69	0.51
1:O:156[D]:VAL:C	1:P:140[D]:ASP:CB[2_855]	1.69	0.51
1:P:39[D]:ASP:CA	1:P:108[D]:GLU:CB[2_855]	1.69	0.51
1:P:113[D]:VAL:N	2:P:700[D]:UMP:O5'[2_855]	1.69	0.51
1:P:178[D]:ASP:C	1:P:180[D]:PRO:CD[2_855]	1.69	0.51
1:M:148[A]:LYS:C	1:N:135[A]:GLY:CA[2_756]	1.70	0.50
1:M:155[A]:ARG:NH1	1:N:125[A]:PRO:CA[2_756]	1.70	0.50
1:M:161[A]:LYS:O	1:N:89[A]:ASP:OD2[2_756]	1.70	0.50
1:N:111[A]:GLU:CD	1:N:255[A]:ASP:OD1[2_756]	1.70	0.50
1:M:147[B]:GLY:CA	1:N:148[B]:LYS:C[2_756]	1.70	0.50
1:M:147[B]:GLY:O	1:N:149[B]:GLY:CA[2_756]	1.70	0.50
1:M:151[B]:ASP:CB	1:N:145[B]:TYR:CE1[2_756]	1.70	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:152[B]:GLN:O	1:N:139[B]:THR:N[2_756]	1.70	0.50
1:M:157[B]:ILE:CB	1:N:142[B]:ASP:C[2_756]	1.70	0.50
1:N:40[B]:ARG:CB	1:N:109[B]:PHE:CB[2_756]	1.70	0.50
1:N:40[B]:ARG:CB	1:N:110[B]:LEU:N[2_756]	1.70	0.50
1:N:179[B]:LEU:CA	1:N:180[B]:PRO:CG[2_756]	1.70	0.50
1:O:132[C]:ARG:C	1:P:137[C]:GLU:CB[2_855]	1.70	0.50
1:O:134[C]:PHE:C	1:P:177[C]:LYS:CE[2_855]	1.70	0.50
1:O:154[C]:GLN:CG	1:P:145[C]:TYR:CZ[2_855]	1.70	0.50
1:O:154[C]:GLN:NE2	1:P:143[C]:GLY:O[2_855]	1.70	0.50
1:O:155[C]:ARG:N	1:P:138[C]:TYR:CG[2_855]	1.70	0.50
1:O:157[C]:ILE:CA	1:P:140[C]:ASP:C[2_855]	1.70	0.50
1:O:162[C]:ASN:ND2	1:P:89[C]:ASP:C[2_855]	1.70	0.50
1:O:163[C]:ASN:ND2	1:P:110[C]:LEU:CD2[2_855]	1.70	0.50
1:O:165[C]:THR:CB	1:P:107[C]:LYS:CG[2_855]	1.70	0.50
1:P:114[C]:GLY:N	2:P:700[C]:UMP:OP1[2_855]	1.70	0.50
1:O:149[D]:GLY:C	1:P:135[D]:GLY:O[2_855]	1.70	0.50
1:O:167[D]:ARG:C	1:P:115[D]:LEU:CA[2_855]	1.70	0.50
1:F:201[A]:ASP:OD1	1:P:273[A]:GLU:OE1[1_455]	1.71	0.49
1:M:151[A]:ASP:C	1:N:138[A]:TYR:CA[2_756]	1.71	0.49
1:M:155[A]:ARG:CB	1:N:138[A]:TYR:CD2[2_756]	1.71	0.49
1:M:168[A]:ARG:CA	1:N:115[A]:LEU:CB[2_756]	1.71	0.49
1:M:168[A]:ARG:NH1	1:N:113[A]:VAL:CG1[2_756]	1.71	0.49
1:N:39[A]:ASP:CB	1:N:108[A]:GLU:CB[2_756]	1.71	0.49
1:N:40[A]:ARG:CG	1:N:109[A]:PHE:CZ[2_756]	1.71	0.49
1:N:114[A]:GLY:N	1:N:216[A]:ARG:NH1[2_756]	1.71	0.49
1:M:163[B]:ASN:CG	1:N:105[B]:GLY:O[2_756]	1.71	0.49
1:M:166[B]:ASP:C	1:N:118[B]:ARG:O[2_756]	1.71	0.49
1:O:131[C]:TRP:C	1:P:137[C]:GLU:OE2[2_855]	1.71	0.49
1:O:137[C]:GLU:CD	1:O:138[C]:TYR:CA[2_855]	1.71	0.49
1:O:158[C]:ASP:CG	1:P:88[C]:THR:OG1[2_855]	1.71	0.49
1:O:160[C]:ILE:C	1:P:119[C]:ARG:NE[2_855]	1.71	0.49
1:O:291[C]:ASP:CG	1:P:144[C]:ASP:OD1[2_855]	1.71	0.49
1:O:152[D]:GLN:O	1:P:139[D]:THR:CA[2_855]	1.71	0.49
1:O:155[D]:ARG:CB	1:P:138[D]:TYR:CD2[2_855]	1.71	0.49
1:O:293[D]:ASP:OD2	1:P:144[D]:ASP:OD2[2_855]	1.71	0.49
1:P:179[D]:LEU:CA	1:P:180[D]:PRO:CA[2_855]	1.71	0.49
1:M:147[A]:GLY:CA	1:N:149[A]:GLY:CA[2_756]	1.72	0.48
1:M:148[A]:LYS:O	1:N:135[A]:GLY:C[2_756]	1.72	0.48
1:M:152[A]:GLN:CA	1:N:138[A]:TYR:N[2_756]	1.72	0.48
1:M:155[A]:ARG:CG	1:N:125[A]:PRO:N[2_756]	1.72	0.48
1:M:156[A]:VAL:N	1:N:138[A]:TYR:CE2[2_756]	1.72	0.48
1:M:146[B]:LYS:O	1:N:149[B]:GLY:O[2_756]	1.72	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:156[B]:VAL:C	1:N:140[B]:ASP:CG[2_756]	1.72	0.48
1:M:162[B]:ASN:CB	1:N:89[B]:ASP:CG[2_756]	1.72	0.48
1:N:39[B]:ASP:CB	1:N:108[B]:GLU:CB[2_756]	1.72	0.48
1:N:113[B]:VAL:O	1:N:185[B]:PRO:CD[2_756]	1.72	0.48
1:O:131[C]:TRP:O	1:P:137[C]:GLU:CD[2_855]	1.72	0.48
1:O:146[C]:LYS:CE	1:P:147[C]:GLY:O[2_855]	1.72	0.48
1:O:155[C]:ARG:CA	1:P:138[C]:TYR:CE1[2_855]	1.72	0.48
1:O:169[C]:ILE:C	1:P:117[C]:HIS:NE2[2_855]	1.72	0.48
1:O:193[C]:PHE:O	1:P:117[C]:HIS:O[2_855]	1.72	0.48
1:O:154[D]:GLN:C	1:P:140[D]:ASP:O[2_855]	1.72	0.48
1:O:157[D]:ILE:CG1	1:P:142[D]:ASP:CA[2_855]	1.72	0.48
1:O:161[D]:LYS:N	1:P:119[D]:ARG:CZ[2_855]	1.72	0.48
1:O:165[D]:THR:N	1:P:120[D]:GLU:CB[2_855]	1.72	0.48
1:O:167[D]:ARG:NE	1:P:111[D]:GLU:C[2_855]	1.72	0.48
1:O:167[D]:ARG:CZ	1:P:111[D]:GLU:CB[2_855]	1.72	0.48
1:F:201[A]:ASP:CB	1:P:273[A]:GLU:CB[1_455]	1.73	0.47
1:M:150[A]:VAL:CG1	1:N:178[A]:ASP:OD1[2_756]	1.73	0.47
1:M:151[A]:ASP:O	1:N:138[A]:TYR:CB[2_756]	1.73	0.47
1:M:155[A]:ARG:CB	1:N:138[A]:TYR:CE1[2_756]	1.73	0.47
1:M:157[A]:ILE:C	1:N:141[A]:ALA:N[2_756]	1.73	0.47
1:M:159[A]:THR:CA	1:N:122[A]:ASP:OD1[2_756]	1.73	0.47
1:M:162[A]:ASN:ND2	1:N:89[A]:ASP:O[2_756]	1.73	0.47
1:N:44[A]:GLY:N	1:N:108[A]:GLU:CD[2_756]	1.73	0.47
1:N:176[A]:PRO:O	1:N:177[A]:LYS:C[2_756]	1.73	0.47
1:M:130[B]:GLN:CA	1:N:137[B]:GLU:OE1[2_756]	1.73	0.47
1:M:150[B]:VAL:O	1:N:138[B]:TYR:N[2_756]	1.73	0.47
1:M:167[B]:ARG:CA	1:N:115[B]:LEU:O[2_756]	1.73	0.47
1:M:167[B]:ARG:C	1:N:116[B]:GLY:N[2_756]	1.73	0.47
1:O:159[C]:THR:O	1:P:122[C]:ASP:N[2_855]	1.73	0.47
1:P:39[C]:ASP:OD1	1:P:108[C]:GLU:CD[2_855]	1.73	0.47
1:O:130[D]:GLN:O	1:P:137[D]:GLU:CG[2_855]	1.73	0.47
1:O:154[D]:GLN:CG	1:P:145[D]:TYR:CE2[2_855]	1.73	0.47
1:O:155[D]:ARG:C	1:P:140[D]:ASP:C[2_855]	1.73	0.47
1:O:155[D]:ARG:CB	1:P:138[D]:TYR:CG[2_855]	1.73	0.47
1:O:156[D]:VAL:CG1	1:P:140[D]:ASP:CG[2_855]	1.73	0.47
1:O:167[D]:ARG:CB	1:P:116[D]:GLY:N[2_855]	1.73	0.47
1:P:39[D]:ASP:CB	1:P:108[D]:GLU:N[2_855]	1.73	0.47
1:P:114[D]:GLY:O	1:P:216[D]:ARG:NH1[2_855]	1.73	0.47
1:P:179[D]:LEU:CB	1:P:180[D]:PRO:CA[2_855]	1.73	0.47
1:M:150[A]:VAL:CG1	1:N:178[A]:ASP:CG[2_756]	1.74	0.46
1:M:159[A]:THR:CA	1:N:122[A]:ASP:CB[2_756]	1.74	0.46
1:M:163[A]:ASN:C	1:N:120[A]:GLU:C[2_756]	1.74	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:167[A]:ARG:CZ	1:N:111[A]:GLU:C[2_756]	1.74	0.46
1:N:112[A]:LYS:NZ	1:N:317[A]:ALA:OXT[2_756]	1.74	0.46
1:M:157[B]:ILE:C	1:N:142[B]:ASP:OD2[2_756]	1.74	0.46
1:M:160[B]:ILE:N	1:N:119[B]:ARG:CZ[2_756]	1.74	0.46
1:M:163[B]:ASN:N	1:N:120[B]:GLU:O[2_756]	1.74	0.46
1:N:39[B]:ASP:CB	1:N:108[B]:GLU:N[2_756]	1.74	0.46
1:N:39[B]:ASP:OD1	1:N:108[B]:GLU:CD[2_756]	1.74	0.46
1:N:40[B]:ARG:CG	1:N:109[B]:PHE:C[2_756]	1.74	0.46
1:O:132[C]:ARG:N	1:P:137[C]:GLU:CB[2_855]	1.74	0.46
1:O:158[C]:ASP:OD1	1:P:88[C]:THR:OG1[2_855]	1.74	0.46
1:O:159[C]:THR:OG1	1:P:118[C]:ARG:NE[2_855]	1.74	0.46
1:O:162[C]:ASN:N	1:P:89[C]:ASP:OD2[2_855]	1.74	0.46
1:O:170[C]:ILE:N	1:P:117[C]:HIS:NE2[2_855]	1.74	0.46
1:P:39[C]:ASP:CG	1:P:108[C]:GLU:CG[2_855]	1.74	0.46
1:P:112[C]:LYS:C	2:P:700[C]:UMP:O5'[2_855]	1.74	0.46
1:P:112[C]:LYS:C	2:P:700[C]:UMP:P[2_855]	1.74	0.46
1:O:131[D]:TRP:O	1:P:137[D]:GLU:CG[2_855]	1.74	0.46
1:O:151[D]:ASP:CG	1:P:145[D]:TYR:CE1[2_855]	1.74	0.46
1:O:153[D]:LEU:C	1:P:145[D]:TYR:OH[2_855]	1.74	0.46
1:O:155[D]:ARG:CD	1:P:124[D]:GLY:C[2_855]	1.74	0.46
1:O:155[D]:ARG:CZ	1:P:124[D]:GLY:C[2_855]	1.74	0.46
1:O:156[D]:VAL:N	1:P:140[D]:ASP:O[2_855]	1.74	0.46
1:O:160[D]:ILE:CA	1:P:119[D]:ARG:CZ[2_855]	1.74	0.46
1:O:161[D]:LYS:N	1:P:119[D]:ARG:NE[2_855]	1.74	0.46
1:O:163[D]:ASN:N	1:P:121[D]:GLY:C[2_855]	1.74	0.46
1:O:165[D]:THR:CA	1:P:107[D]:LYS:CD[2_855]	1.74	0.46
1:O:167[D]:ARG:O	1:P:115[D]:LEU:CA[2_855]	1.74	0.46
1:O:168[D]:ARG:CB	1:P:115[D]:LEU:CG[2_855]	1.74	0.46
1:O:169[D]:ILE:O	1:P:117[D]:HIS:ND1[2_855]	1.74	0.46
1:M:153[A]:LEU:O	1:N:145[A]:TYR:OH[2_756]	1.75	0.45
1:M:153[A]:LEU:CD1	1:N:139[A]:THR:CB[2_756]	1.75	0.45
1:M:159[A]:THR:CB	1:N:122[A]:ASP:CB[2_756]	1.75	0.45
1:M:160[A]:ILE:CG2	1:N:119[A]:ARG:CZ[2_756]	1.75	0.45
1:M:161[A]:LYS:CB	1:N:89[A]:ASP:CG[2_756]	1.75	0.45
1:N:39[A]:ASP:CA	1:N:108[A]:GLU:CB[2_756]	1.75	0.45
1:J:275[B]:ARG:NH2	1:O:95[B]:SER:O[1_455]	1.75	0.45
1:M:147[B]:GLY:CA	1:N:148[B]:LYS:O[2_756]	1.75	0.45
1:M:154[B]:GLN:CA	1:N:143[B]:GLY:CA[2_756]	1.75	0.45
1:M:156[B]:VAL:N	1:N:140[B]:ASP:N[2_756]	1.75	0.45
1:M:158[B]:ASP:CB	1:N:141[B]:ALA:CB[2_756]	1.75	0.45
1:M:160[B]:ILE:O	1:N:119[B]:ARG:CD[2_756]	1.75	0.45
1:N:39[B]:ASP:C	1:N:108[B]:GLU:CA[2_756]	1.75	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:40[B]:ARG:C	1:N:109[B]:PHE:CA[2_756]	1.75	0.45
1:O:165[C]:THR:CG2	1:P:107[C]:LYS:CG[2_855]	1.75	0.45
1:O:167[C]:ARG:CG	1:P:111[C]:GLU:CB[2_855]	1.75	0.45
1:O:291[C]:ASP:OD2	1:P:144[C]:ASP:OD1[2_855]	1.75	0.45
1:O:146[D]:LYS:C	1:P:149[D]:GLY:O[2_855]	1.75	0.45
1:O:149[D]:GLY:CA	1:P:135[D]:GLY:CA[2_855]	1.75	0.45
1:O:163[D]:ASN:CG	1:P:105[D]:GLY:O[2_855]	1.75	0.45
1:O:164[D]:PRO:C	1:P:120[D]:GLU:CA[2_855]	1.75	0.45
1:P:40[D]:ARG:NH2	1:P:112[D]:LYS:CG[2_855]	1.75	0.45
1:P:179[D]:LEU:CG	1:P:181[D]:LEU:N[2_855]	1.75	0.45
1:M:153[A]:LEU:CG	1:N:139[A]:THR:OG1[2_756]	1.76	0.44
1:M:154[A]:GLN:N	1:N:145[A]:TYR:CE1[2_756]	1.76	0.44
1:N:40[A]:ARG:CB	1:N:109[A]:PHE:CD1[2_756]	1.76	0.44
1:N:176[A]:PRO:O	1:N:178[A]:ASP:N[2_756]	1.76	0.44
1:M:152[B]:GLN:C	1:N:139[B]:THR:CB[2_756]	1.76	0.44
1:M:153[B]:LEU:N	1:N:139[B]:THR:CG2[2_756]	1.76	0.44
1:M:159[B]:THR:CB	1:N:122[B]:ASP:OD2[2_756]	1.76	0.44
1:M:163[B]:ASN:C	1:N:120[B]:GLU:CA[2_756]	1.76	0.44
1:M:166[B]:ASP:CB	1:N:110[B]:LEU:CD1[2_756]	1.76	0.44
1:N:40[B]:ARG:NH2	1:N:112[B]:LYS:CA[2_756]	1.76	0.44
1:O:147[C]:GLY:O	1:P:134[C]:PHE:C[2_855]	1.76	0.44
1:O:153[C]:LEU:O	1:P:139[C]:THR:C[2_855]	1.76	0.44
1:O:155[C]:ARG:NE	1:P:125[C]:PRO:CA[2_855]	1.76	0.44
1:O:164[C]:PRO:CA	1:P:119[C]:ARG:O[2_855]	1.76	0.44
1:O:167[C]:ARG:CA	1:P:116[C]:GLY:CA[2_855]	1.76	0.44
1:O:167[C]:ARG:C	1:P:115[C]:LEU:N[2_855]	1.76	0.44
1:O:167[C]:ARG:CZ	1:P:111[C]:GLU:C[2_855]	1.76	0.44
1:O:169[C]:ILE:CB	1:P:117[C]:HIS:ND1[2_855]	1.76	0.44
1:O:169[C]:ILE:CD1	1:P:118[C]:ARG:CB[2_855]	1.76	0.44
1:O:152[D]:GLN:CA	1:P:139[D]:THR:N[2_855]	1.76	0.44
1:O:159[D]:THR:CA	1:P:122[D]:ASP:CB[2_855]	1.76	0.44
1:O:159[D]:THR:CG2	1:P:122[D]:ASP:CG[2_855]	1.76	0.44
1:O:168[D]:ARG:N	1:P:115[D]:LEU:C[2_855]	1.76	0.44
1:P:179[D]:LEU:CD1	1:P:181[D]:LEU:CG[2_855]	1.76	0.44
1:M:132[A]:ARG:NH1	1:N:148[A]:LYS:NZ[2_756]	1.77	0.43
1:M:155[A]:ARG:NH2	1:N:125[A]:PRO:CA[2_756]	1.77	0.43
1:M:160[A]:ILE:CG2	1:N:119[A]:ARG:NE[2_756]	1.77	0.43
1:M:164[A]:PRO:CG	1:N:120[A]:GLU:CB[2_756]	1.77	0.43
1:M:167[A]:ARG:C	1:N:115[A]:LEU:O[2_756]	1.77	0.43
1:N:38[A]:PRO:C	1:N:108[A]:GLU:CB[2_756]	1.77	0.43
1:N:40[A]:ARG:CA	1:N:109[A]:PHE:CD1[2_756]	1.77	0.43
1:N:44[A]:GLY:N	1:N:108[A]:GLU:OE2[2_756]	1.77	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:113[A]:VAL:CB	2:N:600[A]:UMP:OP2[2_756]	1.77	0.43
1:N:179[A]:LEU:CD1	1:N:180[A]:PRO:C[2_756]	1.77	0.43
1:M:147[B]:GLY:O	1:N:149[B]:GLY:C[2_756]	1.77	0.43
1:M:155[B]:ARG:CA	1:N:140[B]:ASP:C[2_756]	1.77	0.43
1:M:156[B]:VAL:N	1:N:140[B]:ASP:CB[2_756]	1.77	0.43
1:M:158[B]:ASP:N	1:N:142[B]:ASP:N[2_756]	1.77	0.43
1:M:162[B]:ASN:N	1:N:89[B]:ASP:OD1[2_756]	1.77	0.43
1:N:40[B]:ARG:CG	1:N:109[B]:PHE:CA[2_756]	1.77	0.43
1:O:150[C]:VAL:CG1	1:P:178[C]:ASP:OD1[2_855]	1.77	0.43
1:O:159[C]:THR:CG2	1:P:122[C]:ASP:O[2_855]	1.77	0.43
1:O:152[D]:GLN:O	1:P:139[D]:THR:C[2_855]	1.77	0.43
1:M:148[A]:LYS:O	1:N:135[A]:GLY:O[2_756]	1.78	0.42
1:N:113[A]:VAL:N	2:N:600[A]:UMP:O5'[2_756]	1.78	0.42
1:M:155[B]:ARG:C	1:N:140[B]:ASP:CA[2_756]	1.78	0.42
1:M:167[B]:ARG:NH2	1:N:112[B]:LYS:N[2_756]	1.78	0.42
1:O:134[C]:PHE:CA	1:P:177[C]:LYS:NZ[2_855]	1.78	0.42
1:O:153[C]:LEU:C	1:P:139[C]:THR:CB[2_855]	1.78	0.42
1:O:157[C]:ILE:CG2	1:P:141[C]:ALA:C[2_855]	1.78	0.42
1:O:160[C]:ILE:C	1:P:119[C]:ARG:CD[2_855]	1.78	0.42
1:O:168[C]:ARG:O	1:P:117[C]:HIS:NE2[2_855]	1.78	0.42
1:O:293[C]:ASP:N	1:P:144[C]:ASP:CB[2_855]	1.78	0.42
1:O:293[C]:ASP:OD2	1:P:144[C]:ASP:C[2_855]	1.78	0.42
1:P:41[C]:THR:N	1:P:112[C]:LYS:CD[2_855]	1.78	0.42
1:P:114[C]:GLY:N	2:P:700[C]:UMP:P[2_855]	1.78	0.42
1:O:154[D]:GLN:NE2	1:P:143[D]:GLY:C[2_855]	1.78	0.42
1:O:155[D]:ARG:N	1:P:145[D]:TYR:OH[2_855]	1.78	0.42
1:O:157[D]:ILE:N	1:P:140[D]:ASP:OD2[2_855]	1.78	0.42
1:O:157[D]:ILE:CA	1:P:141[D]:ALA:C[2_855]	1.78	0.42
1:O:158[D]:ASP:N	1:P:141[D]:ALA:O[2_855]	1.78	0.42
1:O:159[D]:THR:CB	1:P:122[D]:ASP:OD2[2_855]	1.78	0.42
1:O:162[D]:ASN:N	1:P:89[D]:ASP:OD1[2_855]	1.78	0.42
1:O:163[D]:ASN:CA	1:P:121[D]:GLY:C[2_855]	1.78	0.42
1:P:112[D]:LYS:CE	1:P:317[D]:ALA:O[2_855]	1.78	0.42
1:M:136[A]:ALA:CB	1:M:177[A]:LYS:CE[2_756]	1.79	0.41
1:M:154[A]:GLN:CD	1:N:145[A]:TYR:CD2[2_756]	1.79	0.41
1:M:157[A]:ILE:CD1	1:N:140[A]:ASP:OD2[2_756]	1.79	0.41
1:M:164[A]:PRO:O	1:N:120[A]:GLU:N[2_756]	1.79	0.41
1:M:149[B]:GLY:C	1:N:136[B]:ALA:N[2_756]	1.79	0.41
1:M:150[B]:VAL:C	1:N:137[B]:GLU:CA[2_756]	1.79	0.41
1:M:160[B]:ILE:N	1:N:119[B]:ARG:NE[2_756]	1.79	0.41
1:M:167[B]:ARG:CA	1:N:116[B]:GLY:C[2_756]	1.79	0.41
1:M:293[B]:ASP:CB	1:N:144[B]:ASP:OD2[2_756]	1.79	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:110[B]:LEU:O	2:N:600[B]:UMP:P[2_756]	1.79	0.41
1:N:179[B]:LEU:CD1	1:N:181[B]:LEU:CB[2_756]	1.79	0.41
1:O:156[C]:VAL:CA	1:P:140[C]:ASP:CA[2_855]	1.79	0.41
1:O:168[C]:ARG:CA	1:P:115[C]:LEU:CA[2_855]	1.79	0.41
1:O:193[C]:PHE:O	1:P:117[C]:HIS:C[2_855]	1.79	0.41
1:P:39[C]:ASP:CB	1:P:108[C]:GLU:C[2_855]	1.79	0.41
1:P:111[C]:GLU:O	2:P:700[C]:UMP:OP1[2_855]	1.79	0.41
1:P:114[C]:GLY:C	1:P:216[C]:ARG:NH1[2_855]	1.79	0.41
1:O:154[D]:GLN:CA	1:P:145[D]:TYR:OH[2_855]	1.79	0.41
1:O:154[D]:GLN:CD	1:P:143[D]:GLY:O[2_855]	1.79	0.41
1:O:155[D]:ARG:C	1:P:138[D]:TYR:OH[2_855]	1.79	0.41
1:O:163[D]:ASN:CB	1:P:121[D]:GLY:N[2_855]	1.79	0.41
1:M:151[A]:ASP:CA	1:N:136[A]:ALA:O[2_756]	1.80	0.40
1:M:156[A]:VAL:O	1:N:141[A]:ALA:N[2_756]	1.80	0.40
1:M:162[A]:ASN:C	1:N:121[A]:GLY:CA[2_756]	1.80	0.40
1:M:162[A]:ASN:CG	1:N:90[A]:ALA:N[2_756]	1.80	0.40
1:M:164[A]:PRO:CD	1:N:121[A]:GLY:N[2_756]	1.80	0.40
1:M:166[A]:ASP:C	1:N:110[A]:LEU:CB[2_756]	1.80	0.40
1:M:167[A]:ARG:O	1:N:116[A]:GLY:N[2_756]	1.80	0.40
1:M:292[A]:ILE:C	1:N:144[A]:ASP:CB[2_756]	1.80	0.40
1:N:40[A]:ARG:C	1:N:109[A]:PHE:CD1[2_756]	1.80	0.40
1:N:179[A]:LEU:CG	1:N:180[A]:PRO:CA[2_756]	1.80	0.40
1:M:136[B]:ALA:C	1:M:177[B]:LYS:NZ[2_756]	1.80	0.40
1:M:155[B]:ARG:O	1:N:140[B]:ASP:C[2_756]	1.80	0.40
1:M:160[B]:ILE:CA	1:N:119[B]:ARG:NH2[2_756]	1.80	0.40
1:N:39[B]:ASP:O	1:N:106[B]:SER:OG[2_756]	1.80	0.40
1:O:136[C]:ALA:CB	1:O:177[C]:LYS:NZ[2_855]	1.80	0.40
1:O:137[C]:GLU:CD	1:O:138[C]:TYR:CB[2_855]	1.80	0.40
1:O:152[C]:GLN:O	1:P:139[C]:THR:N[2_855]	1.80	0.40
1:O:155[C]:ARG:CZ	1:P:124[C]:GLY:C[2_855]	1.80	0.40
1:P:39[C]:ASP:CB	1:P:108[C]:GLU:CA[2_855]	1.80	0.40
1:O:131[D]:TRP:C	1:P:137[D]:GLU:CB[2_855]	1.80	0.40
1:O:167[D]:ARG:CB	1:P:116[D]:GLY:CA[2_855]	1.80	0.40
1:P:44[D]:GLY:CA	1:P:108[D]:GLU:OE1[2_855]	1.80	0.40
1:M:148[B]:LYS:C	1:N:135[B]:GLY:C[2_756]	1.81	0.39
1:M:149[B]:GLY:O	1:N:136[B]:ALA:O[2_756]	1.81	0.39
1:M:150[B]:VAL:C	1:N:136[B]:ALA:O[2_756]	1.81	0.39
1:M:157[B]:ILE:N	1:N:142[B]:ASP:N[2_756]	1.81	0.39
1:M:158[B]:ASP:CG	1:N:141[B]:ALA:O[2_756]	1.81	0.39
1:M:160[B]:ILE:O	1:N:119[B]:ARG:NE[2_756]	1.81	0.39
1:M:166[B]:ASP:OD2	1:N:110[B]:LEU:CD2[2_756]	1.81	0.39
1:M:168[B]:ARG:CG	1:N:115[B]:LEU:CD2[2_756]	1.81	0.39

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:114[B]:GLY:CA	1:N:216[B]:ARG:CZ[2_756]	1.81	0.39
1:N:115[B]:LEU:N	1:N:216[B]:ARG:NH1[2_756]	1.81	0.39
1:O:154[C]:GLN:N	1:P:139[C]:THR:N[2_855]	1.81	0.39
1:O:155[C]:ARG:C	1:P:138[C]:TYR:CZ[2_855]	1.81	0.39
1:O:156[C]:VAL:CA	1:P:139[C]:THR:O[2_855]	1.81	0.39
1:O:132[D]:ARG:N	1:P:137[D]:GLU:CB[2_855]	1.81	0.39
1:O:136[D]:ALA:CB	1:O:177[D]:LYS:CE[2_855]	1.81	0.39
1:O:146[D]:LYS:CG	1:P:147[D]:GLY:O[2_855]	1.81	0.39
1:O:154[D]:GLN:O	1:P:140[D]:ASP:O[2_855]	1.81	0.39
1:O:155[D]:ARG:C	1:P:138[D]:TYR:CZ[2_855]	1.81	0.39
1:O:157[D]:ILE:C	1:P:141[D]:ALA:CA[2_855]	1.81	0.39
1:O:157[D]:ILE:CD1	1:P:142[D]:ASP:CB[2_855]	1.81	0.39
1:O:164[D]:PRO:CD	1:P:120[D]:GLU:C[2_855]	1.81	0.39
1:P:114[D]:GLY:C	1:P:216[D]:ARG:NE[2_855]	1.81	0.39
1:M:132[A]:ARG:CA	1:N:137[A]:GLU:N[2_756]	1.82	0.38
1:M:147[A]:GLY:C	1:N:150[A]:VAL:N[2_756]	1.82	0.38
1:M:150[A]:VAL:CG1	1:N:178[A]:ASP:OD2[2_756]	1.82	0.38
1:M:155[A]:ARG:CB	1:N:138[A]:TYR:CE2[2_756]	1.82	0.38
1:M:162[A]:ASN:CA	1:N:90[A]:ALA:N[2_756]	1.82	0.38
1:M:167[A]:ARG:CD	1:N:111[A]:GLU:C[2_756]	1.82	0.38
1:N:40[A]:ARG:CG	1:N:109[A]:PHE:CG[2_756]	1.82	0.38
1:M:150[B]:VAL:C	1:N:138[B]:TYR:N[2_756]	1.82	0.38
1:M:157[B]:ILE:CG2	1:N:142[B]:ASP:CG[2_756]	1.82	0.38
1:M:162[B]:ASN:N	1:N:89[B]:ASP:OD2[2_756]	1.82	0.38
1:M:163[B]:ASN:O	1:N:120[B]:GLU:N[2_756]	1.82	0.38
1:M:163[B]:ASN:O	1:N:120[B]:GLU:CA[2_756]	1.82	0.38
1:M:163[B]:ASN:OD1	1:N:121[B]:GLY:N[2_756]	1.82	0.38
1:M:167[B]:ARG:O	1:N:115[B]:LEU:C[2_756]	1.82	0.38
1:M:168[B]:ARG:NE	1:N:115[B]:LEU:CB[2_756]	1.82	0.38
1:O:151[C]:ASP:CA	1:P:137[C]:GLU:CA[2_855]	1.82	0.38
1:O:165[C]:THR:OG1	1:P:106[C]:SER:C[2_855]	1.82	0.38
1:P:37[C]:ARG:NH2	1:P:107[C]:LYS:CE[2_855]	1.82	0.38
1:O:135[D]:GLY:CA	1:P:177[D]:LYS:NZ[2_855]	1.82	0.38
1:O:152[D]:GLN:C	1:P:139[D]:THR:CA[2_855]	1.82	0.38
1:O:164[D]:PRO:N	1:P:120[D]:GLU:CA[2_855]	1.82	0.38
1:O:167[D]:ARG:CA	1:P:116[D]:GLY:N[2_855]	1.82	0.38
1:O:169[D]:ILE:C	1:P:117[D]:HIS:CE1[2_855]	1.82	0.38
1:M:150[A]:VAL:O	1:N:136[A]:ALA:O[2_756]	1.83	0.37
1:M:152[A]:GLN:N	1:N:137[A]:GLU:C[2_756]	1.83	0.37
1:M:153[A]:LEU:N	1:N:138[A]:TYR:CA[2_756]	1.83	0.37
1:M:153[A]:LEU:O	1:N:140[A]:ASP:N[2_756]	1.83	0.37
1:M:155[A]:ARG:CB	1:N:138[A]:TYR:CZ[2_756]	1.83	0.37

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:155[A]:ARG:CG	1:N:124[A]:GLY:C[2_756]	1.83	0.37
1:M:161[A]:LYS:C	1:N:89[A]:ASP:OD1[2_756]	1.83	0.37
1:M:164[A]:PRO:CG	1:N:120[A]:GLU:C[2_756]	1.83	0.37
1:M:166[A]:ASP:CB	1:N:110[A]:LEU:CG[2_756]	1.83	0.37
1:M:167[A]:ARG:N	1:N:115[A]:LEU:O[2_756]	1.83	0.37
1:M:167[A]:ARG:C	1:N:115[A]:LEU:N[2_756]	1.83	0.37
1:M:149[B]:GLY:C	1:N:136[B]:ALA:C[2_756]	1.83	0.37
1:M:149[B]:GLY:O	1:N:136[B]:ALA:CA[2_756]	1.83	0.37
1:M:150[B]:VAL:CG2	1:N:178[B]:ASP:OD1[2_756]	1.83	0.37
1:M:158[B]:ASP:N	1:N:141[B]:ALA:CA[2_756]	1.83	0.37
1:M:164[B]:PRO:CA	1:N:120[B]:GLU:N[2_756]	1.83	0.37
1:N:43[B]:THR:N	1:N:108[B]:GLU:CD[2_756]	1.83	0.37
1:O:148[C]:LYS:CB	1:O:177[C]:LYS:CG[2_855]	1.83	0.37
1:O:154[C]:GLN:CD	1:P:145[C]:TYR:CD2[2_855]	1.83	0.37
1:O:155[C]:ARG:O	1:P:138[C]:TYR:CE2[2_855]	1.83	0.37
1:O:155[C]:ARG:CD	1:P:125[C]:PRO:N[2_855]	1.83	0.37
1:O:160[C]:ILE:O	1:P:119[C]:ARG:NE[2_855]	1.83	0.37
1:O:163[C]:ASN:ND2	1:P:110[C]:LEU:CG[2_855]	1.83	0.37
1:P:113[C]:VAL:CA	2:P:700[C]:UMP:OP2[2_855]	1.83	0.37
1:O:153[D]:LEU:O	1:P:139[D]:THR:OG1[2_855]	1.83	0.37
1:O:155[D]:ARG:NH1	1:P:126[D]:VAL:N[2_855]	1.83	0.37
1:O:156[D]:VAL:N	1:P:140[D]:ASP:N[2_855]	1.83	0.37
1:O:156[D]:VAL:C	1:P:140[D]:ASP:CA[2_855]	1.83	0.37
1:O:168[D]:ARG:CB	1:P:115[D]:LEU:CB[2_855]	1.83	0.37
1:P:39[D]:ASP:CG	1:P:108[D]:GLU:CA[2_855]	1.83	0.37
1:P:113[D]:VAL:N	2:P:700[D]:UMP:OP3[2_855]	1.83	0.37
1:M:134[A]:PHE:CA	1:N:177[A]:LYS:NZ[2_756]	1.84	0.36
1:M:157[A]:ILE:N	1:N:140[A]:ASP:CA[2_756]	1.84	0.36
1:M:293[A]:ASP:CG	1:N:144[A]:ASP:OD2[2_756]	1.84	0.36
1:N:37[A]:ARG:CZ	1:N:107[A]:LYS:CG[2_756]	1.84	0.36
1:M:132[B]:ARG:CZ	1:N:144[B]:ASP:O[2_756]	1.84	0.36
1:M:149[B]:GLY:C	1:N:135[B]:GLY:O[2_756]	1.84	0.36
1:M:156[B]:VAL:C	1:N:140[B]:ASP:CB[2_756]	1.84	0.36
1:M:162[B]:ASN:CG	1:N:89[B]:ASP:OD2[2_756]	1.84	0.36
1:N:178[B]:ASP:C	1:N:180[B]:PRO:CG[2_756]	1.84	0.36
1:O:151[C]:ASP:C	1:P:137[C]:GLU:C[2_855]	1.84	0.36
1:O:152[C]:GLN:CA	1:P:138[C]:TYR:C[2_855]	1.84	0.36
1:O:154[C]:GLN:NE2	1:P:143[C]:GLY:C[2_855]	1.84	0.36
1:O:163[C]:ASN:C	1:P:119[C]:ARG:O[2_855]	1.84	0.36
1:O:167[C]:ARG:CD	1:P:111[C]:GLU:CA[2_855]	1.84	0.36
1:O:168[C]:ARG:N	1:P:115[C]:LEU:CB[2_855]	1.84	0.36
1:O:168[C]:ARG:CZ	1:P:113[C]:VAL:CG2[2_855]	1.84	0.36

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:38[C]:PRO:C	1:P:108[C]:GLU:CA[2_855]	1.84	0.36
1:O:150[D]:VAL:O	1:P:136[D]:ALA:O[2_855]	1.84	0.36
1:O:151[D]:ASP:CA	1:P:137[D]:GLU:C[2_855]	1.84	0.36
1:O:152[D]:GLN:CG	1:P:138[D]:TYR:O[2_855]	1.84	0.36
1:O:160[D]:ILE:CA	1:P:119[D]:ARG:CD[2_855]	1.84	0.36
1:O:163[D]:ASN:CA	1:P:120[D]:GLU:C[2_855]	1.84	0.36
1:O:166[D]:ASP:N	1:P:110[D]:LEU:CD1[2_855]	1.84	0.36
1:P:114[D]:GLY:N	1:P:216[D]:ARG:NH2[2_855]	1.84	0.36
1:M:160[A]:ILE:N	1:N:122[A]:ASP:CB[2_756]	1.85	0.35
1:M:161[A]:LYS:CA	1:N:89[A]:ASP:CG[2_756]	1.85	0.35
1:M:165[A]:THR:OG1	1:N:107[A]:LYS:CA[2_756]	1.85	0.35
1:M:149[B]:GLY:N	1:N:136[B]:ALA:N[2_756]	1.85	0.35
1:M:167[B]:ARG:N	1:N:115[B]:LEU:O[2_756]	1.85	0.35
1:N:39[B]:ASP:CA	1:N:108[B]:GLU:CB[2_756]	1.85	0.35
1:N:112[B]:LYS:CA	2:N:600[B]:UMP:O5'[2_756]	1.85	0.35
1:O:155[C]:ARG:NH1	1:P:125[C]:PRO:CB[2_855]	1.85	0.35
1:O:158[C]:ASP:C	1:P:141[C]:ALA:CB[2_855]	1.85	0.35
1:O:160[C]:ILE:N	1:P:122[C]:ASP:CB[2_855]	1.85	0.35
1:O:161[C]:LYS:CA	1:P:119[C]:ARG:NE[2_855]	1.85	0.35
1:O:148[D]:LYS:C	1:P:135[D]:GLY:C[2_855]	1.85	0.35
1:O:150[D]:VAL:CG2	1:P:178[D]:ASP:OD2[2_855]	1.85	0.35
1:O:151[D]:ASP:CA	1:P:137[D]:GLU:O[2_855]	1.85	0.35
1:O:155[D]:ARG:NE	1:P:124[D]:GLY:C[2_855]	1.85	0.35
1:O:168[D]:ARG:NE	1:P:113[D]:VAL:CG2[2_855]	1.85	0.35
1:P:112[D]:LYS:O	2:P:700[D]:UMP:O5'[2_855]	1.85	0.35
1:P:114[D]:GLY:C	1:P:216[D]:ARG:NH2[2_855]	1.85	0.35
1:P:179[D]:LEU:CD1	1:P:181[D]:LEU:CB[2_855]	1.85	0.35
1:F:201[A]:ASP:CG	1:P:273[A]:GLU:CB[1_455]	1.86	0.34
1:M:155[A]:ARG:CA	1:N:138[A]:TYR:CE2[2_756]	1.86	0.34
1:M:167[A]:ARG:C	1:N:116[A]:GLY:N[2_756]	1.86	0.34
1:M:168[A]:ARG:N	1:N:115[A]:LEU:C[2_756]	1.86	0.34
1:M:169[A]:ILE:N	1:N:118[A]:ARG:CG[2_756]	1.86	0.34
1:J:95[B]:SER:O	1:O:275[B]:ARG:NH2[1_455]	1.86	0.34
1:M:131[B]:TRP:CA	1:N:137[B]:GLU:CD[2_756]	1.86	0.34
1:M:147[B]:GLY:CA	1:N:149[B]:GLY:O[2_756]	1.86	0.34
1:M:157[B]:ILE:CA	1:N:142[B]:ASP:CA[2_756]	1.86	0.34
1:N:40[B]:ARG:CB	1:N:109[B]:PHE:N[2_756]	1.86	0.34
1:N:112[B]:LYS:N	2:N:600[B]:UMP:OP3[2_756]	1.86	0.34
1:O:131[C]:TRP:CA	1:P:137[C]:GLU:OE1[2_855]	1.86	0.34
1:O:155[C]:ARG:CA	1:P:138[C]:TYR:CG[2_855]	1.86	0.34
1:O:162[C]:ASN:OD1	1:P:89[C]:ASP:OD2[2_855]	1.86	0.34
1:O:167[C]:ARG:CZ	1:P:112[C]:LYS:N[2_855]	1.86	0.34

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:169[C]:ILE:C	1:P:117[C]:HIS:CG[2_855]	1.86	0.34
1:O:149[D]:GLY:O	1:P:135[D]:GLY:CA[2_855]	1.86	0.34
1:O:242[D]:THR:CB	1:P:142[D]:ASP:OD1[2_855]	1.86	0.34
1:P:44[D]:GLY:N	1:P:108[D]:GLU:CD[2_855]	1.86	0.34
1:P:113[D]:VAL:O	1:P:216[D]:ARG:NH2[2_855]	1.86	0.34
1:M:151[A]:ASP:O	1:N:138[A]:TYR:CA[2_756]	1.87	0.33
1:M:156[A]:VAL:O	1:N:122[A]:ASP:OD2[2_756]	1.87	0.33
1:M:158[A]:ASP:C	1:N:141[A]:ALA:CB[2_756]	1.87	0.33
1:M:159[A]:THR:CA	1:N:122[A]:ASP:CG[2_756]	1.87	0.33
1:M:159[A]:THR:OG1	1:N:124[A]:GLY:N[2_756]	1.87	0.33
1:M:167[A]:ARG:C	1:N:115[A]:LEU:CB[2_756]	1.87	0.33
1:M:169[A]:ILE:CD1	1:N:119[A]:ARG:N[2_756]	1.87	0.33
1:M:292[A]:ILE:CB	1:N:144[A]:ASP:N[2_756]	1.87	0.33
1:N:39[A]:ASP:CB	1:N:108[A]:GLU:CG[2_756]	1.87	0.33
1:N:109[A]:PHE:O	2:N:600[A]:UMP:OP3[2_756]	1.87	0.33
1:M:155[B]:ARG:N	1:N:145[B]:TYR:OH[2_756]	1.87	0.33
1:M:155[B]:ARG:NE	1:N:138[B]:TYR:OH[2_756]	1.87	0.33
1:M:157[B]:ILE:CG1	1:N:142[B]:ASP:CA[2_756]	1.87	0.33
1:M:164[B]:PRO:O	1:N:119[B]:ARG:CA[2_756]	1.87	0.33
1:M:164[B]:PRO:CD	1:N:120[B]:GLU:O[2_756]	1.87	0.33
1:N:40[B]:ARG:CG	1:N:109[B]:PHE:CD2[2_756]	1.87	0.33
1:N:179[B]:LEU:CD1	1:N:181[B]:LEU:CA[2_756]	1.87	0.33
1:O:155[C]:ARG:NE	1:P:124[C]:GLY:O[2_855]	1.87	0.33
1:O:155[C]:ARG:NH1	1:P:125[C]:PRO:N[2_855]	1.87	0.33
1:O:164[C]:PRO:CB	1:P:119[C]:ARG:C[2_855]	1.87	0.33
1:O:165[C]:THR:N	1:P:107[C]:LYS:CD[2_855]	1.87	0.33
1:O:169[C]:ILE:N	1:P:117[C]:HIS:CD2[2_855]	1.87	0.33
1:O:242[C]:THR:N	1:P:142[C]:ASP:OD1[2_855]	1.87	0.33
1:O:292[C]:ILE:CG2	1:P:144[C]:ASP:N[2_855]	1.87	0.33
1:P:39[C]:ASP:N	1:P:108[C]:GLU:CG[2_855]	1.87	0.33
1:P:40[C]:ARG:N	1:P:108[C]:GLU:O[2_855]	1.87	0.33
1:O:130[D]:GLN:C	1:P:137[D]:GLU:CD[2_855]	1.87	0.33
1:O:151[D]:ASP:OD2	1:P:145[D]:TYR:CD1[2_855]	1.87	0.33
1:O:155[D]:ARG:CD	1:P:138[D]:TYR:OH[2_855]	1.87	0.33
1:O:158[D]:ASP:O	1:P:89[D]:ASP:CB[2_855]	1.87	0.33
1:O:159[D]:THR:CA	1:P:122[D]:ASP:CA[2_855]	1.87	0.33
1:O:162[D]:ASN:OD1	1:P:92[D]:MET:N[2_855]	1.87	0.33
1:O:162[D]:ASN:ND2	1:P:89[D]:ASP:O[2_855]	1.87	0.33
1:O:192[D]:GLN:NE2	1:P:117[D]:HIS:CB[2_855]	1.87	0.33
1:M:156[A]:VAL:CB	1:N:140[A]:ASP:CB[2_756]	1.88	0.32
1:N:114[A]:GLY:C	1:N:216[A]:ARG:CZ[2_756]	1.88	0.32
1:M:147[B]:GLY:O	1:N:134[B]:PHE:O[2_756]	1.88	0.32

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:150[B]:VAL:N	1:N:136[B]:ALA:C[2_756]	1.88	0.32
1:M:150[B]:VAL:O	1:N:137[B]:GLU:N[2_756]	1.88	0.32
1:M:154[B]:GLN:CA	1:N:143[B]:GLY:N[2_756]	1.88	0.32
1:M:157[B]:ILE:N	1:N:140[B]:ASP:CG[2_756]	1.88	0.32
1:M:157[B]:ILE:C	1:N:142[B]:ASP:N[2_756]	1.88	0.32
1:M:163[B]:ASN:ND2	1:N:105[B]:GLY:O[2_756]	1.88	0.32
1:M:167[B]:ARG:CB	1:N:116[B]:GLY:N[2_756]	1.88	0.32
1:M:168[B]:ARG:C	1:N:117[B]:HIS:CE1[2_756]	1.88	0.32
1:N:43[B]:THR:N	1:N:108[B]:GLU:OE1[2_756]	1.88	0.32
1:O:148[C]:LYS:CD	1:O:177[C]:LYS:CG[2_855]	1.88	0.32
1:O:156[C]:VAL:N	1:P:139[C]:THR:O[2_855]	1.88	0.32
1:O:159[C]:THR:C	1:P:122[C]:ASP:CG[2_855]	1.88	0.32
1:O:161[C]:LYS:C	1:P:89[C]:ASP:OD2[2_855]	1.88	0.32
1:O:168[C]:ARG:CG	1:P:115[C]:LEU:CG[2_855]	1.88	0.32
1:O:168[C]:ARG:CD	1:P:115[C]:LEU:N[2_855]	1.88	0.32
1:P:38[C]:PRO:O	1:P:108[C]:GLU:CA[2_855]	1.88	0.32
1:O:150[D]:VAL:C	1:P:136[D]:ALA:C[2_855]	1.88	0.32
1:O:157[D]:ILE:CG2	1:P:142[D]:ASP:CB[2_855]	1.88	0.32
1:O:160[D]:ILE:CA	1:P:119[D]:ARG:CG[2_855]	1.88	0.32
1:O:160[D]:ILE:C	1:P:119[D]:ARG:CD[2_855]	1.88	0.32
1:O:192[D]:GLN:CD	1:P:117[D]:HIS:CB[2_855]	1.88	0.32
1:O:293[D]:ASP:OD1	1:P:144[D]:ASP:OD2[2_855]	1.88	0.32
1:P:40[D]:ARG:CA	1:P:109[D]:PHE:N[2_855]	1.88	0.32
1:M:157[A]:ILE:CB	1:N:142[A]:ASP:CA[2_756]	1.89	0.31
1:M:242[A]:THR:OG1	1:N:142[A]:ASP:OD1[2_756]	1.89	0.31
1:N:40[A]:ARG:CD	1:N:113[A]:VAL:CG1[2_756]	1.89	0.31
1:M:151[B]:ASP:C	1:N:137[B]:GLU:O[2_756]	1.89	0.31
1:M:152[B]:GLN:N	1:N:138[B]:TYR:N[2_756]	1.89	0.31
1:M:152[B]:GLN:CA	1:N:139[B]:THR:CA[2_756]	1.89	0.31
1:M:156[B]:VAL:N	1:N:140[B]:ASP:O[2_756]	1.89	0.31
1:M:160[B]:ILE:CA	1:N:119[B]:ARG:CG[2_756]	1.89	0.31
1:M:166[B]:ASP:O	1:N:118[B]:ARG:C[2_756]	1.89	0.31
1:N:111[B]:GLU:O	2:N:600[B]:UMP:P[2_756]	1.89	0.31
1:O:147[C]:GLY:N	1:P:149[C]:GLY:N[2_855]	1.89	0.31
1:O:153[C]:LEU:CD1	1:P:139[C]:THR:CG2[2_855]	1.89	0.31
1:O:157[C]:ILE:N	1:P:141[C]:ALA:N[2_855]	1.89	0.31
1:O:159[C]:THR:OG1	1:P:122[C]:ASP:OD1[2_855]	1.89	0.31
1:O:163[C]:ASN:CA	1:P:121[C]:GLY:CA[2_855]	1.89	0.31
1:O:164[C]:PRO:CD	1:P:120[C]:GLU:N[2_855]	1.89	0.31
1:O:168[C]:ARG:CD	1:P:115[C]:LEU:CG[2_855]	1.89	0.31
1:O:291[C]:ASP:OD1	1:P:144[C]:ASP:CB[2_855]	1.89	0.31
1:P:40[C]:ARG:CA	1:P:109[C]:PHE:CB[2_855]	1.89	0.31

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:113[C]:VAL:N	2:P:700[C]:UMP:P[2_855]	1.89	0.31
1:O:155[D]:ARG:CD	1:P:124[D]:GLY:O[2_855]	1.89	0.31
1:O:157[D]:ILE:N	1:P:142[D]:ASP:N[2_855]	1.89	0.31
1:O:167[D]:ARG:NH2	1:P:108[D]:GLU:O[2_855]	1.89	0.31
1:O:292[D]:ILE:CG2	1:P:144[D]:ASP:CB[2_855]	1.89	0.31
1:P:112[D]:LYS:N	2:P:700[D]:UMP:O5'[2_855]	1.89	0.31
1:M:159[A]:THR:N	1:N:122[A]:ASP:OD1[2_756]	1.90	0.30
1:M:163[A]:ASN:C	1:N:121[A]:GLY:CA[2_756]	1.90	0.30
1:M:292[A]:ILE:CG2	1:N:143[A]:GLY:C[2_756]	1.90	0.30
1:M:151[B]:ASP:N	1:N:137[B]:GLU:C[2_756]	1.90	0.30
1:M:152[B]:GLN:N	1:N:139[B]:THR:N[2_756]	1.90	0.30
1:M:156[B]:VAL:CB	1:N:140[B]:ASP:OD1[2_756]	1.90	0.30
1:M:169[B]:ILE:CD1	1:N:118[B]:ARG:C[2_756]	1.90	0.30
1:O:148[C]:LYS:C	1:P:135[C]:GLY:O[2_855]	1.90	0.30
1:O:153[C]:LEU:CB	1:P:139[C]:THR:CB[2_855]	1.90	0.30
1:O:154[C]:GLN:C	1:P:140[C]:ASP:O[2_855]	1.90	0.30
1:O:155[C]:ARG:O	1:P:138[C]:TYR:OH[2_855]	1.90	0.30
1:O:156[C]:VAL:CB	1:P:139[C]:THR:C[2_855]	1.90	0.30
1:O:157[C]:ILE:CA	1:P:140[C]:ASP:OD2[2_855]	1.90	0.30
1:O:159[C]:THR:CB	1:P:122[C]:ASP:OD1[2_855]	1.90	0.30
1:O:162[C]:ASN:C	1:P:121[C]:GLY:O[2_855]	1.90	0.30
1:P:111[C]:GLU:OE1	1:P:255[C]:ASP:OD1[2_855]	1.90	0.30
1:O:151[D]:ASP:O	1:P:138[D]:TYR:CA[2_855]	1.90	0.30
1:O:152[D]:GLN:N	1:P:138[D]:TYR:C[2_855]	1.90	0.30
1:O:157[D]:ILE:CB	1:P:141[D]:ALA:C[2_855]	1.90	0.30
1:O:163[D]:ASN:O	1:P:121[D]:GLY:N[2_855]	1.90	0.30
1:P:111[D]:GLU:O	2:P:700[D]:UMP:OP1[2_855]	1.90	0.30
1:M:153[A]:LEU:CA	1:N:139[A]:THR:OG1[2_756]	1.91	0.29
1:M:155[A]:ARG:CG	1:N:125[A]:PRO:CD[2_756]	1.91	0.29
1:M:159[A]:THR:CB	1:N:122[A]:ASP:C[2_756]	1.91	0.29
1:M:162[A]:ASN:O	1:N:90[A]:ALA:CB[2_756]	1.91	0.29
1:M:164[A]:PRO:CB	1:N:120[A]:GLU:CA[2_756]	1.91	0.29
1:M:170[A]:ILE:CG1	1:N:117[A]:HIS:NE2[2_756]	1.91	0.29
1:N:111[A]:GLU:OE1	1:N:255[A]:ASP:CG[2_756]	1.91	0.29
1:M:146[B]:LYS:C	1:N:149[B]:GLY:N[2_756]	1.91	0.29
1:M:148[B]:LYS:N	1:N:149[B]:GLY:N[2_756]	1.91	0.29
1:M:149[B]:GLY:O	1:N:135[B]:GLY:C[2_756]	1.91	0.29
1:M:151[B]:ASP:CA	1:N:137[B]:GLU:C[2_756]	1.91	0.29
1:M:154[B]:GLN:CB	1:N:145[B]:TYR:CD2[2_756]	1.91	0.29
1:M:156[B]:VAL:CG1	1:N:140[B]:ASP:CG[2_756]	1.91	0.29
1:M:169[B]:ILE:CG1	1:N:118[B]:ARG:C[2_756]	1.91	0.29
1:O:152[C]:GLN:CB	1:P:138[C]:TYR:O[2_855]	1.91	0.29

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:153[C]:LEU:O	1:P:139[C]:THR:CA[2_855]	1.91	0.29
1:O:153[C]:LEU:CD1	1:P:139[C]:THR:CB[2_855]	1.91	0.29
1:O:155[C]:ARG:NH1	1:P:126[C]:VAL:N[2_855]	1.91	0.29
1:O:156[C]:VAL:O	1:P:122[C]:ASP:OD2[2_855]	1.91	0.29
1:O:159[C]:THR:O	1:P:122[C]:ASP:CA[2_855]	1.91	0.29
1:O:163[C]:ASN:CG	1:P:105[C]:GLY:O[2_855]	1.91	0.29
1:O:164[C]:PRO:CA	1:P:120[C]:GLU:CA[2_855]	1.91	0.29
1:O:169[C]:ILE:N	1:P:117[C]:HIS:CE1[2_855]	1.91	0.29
1:O:169[C]:ILE:CA	1:P:117[C]:HIS:NE2[2_855]	1.91	0.29
1:P:42[C]:GLY:C	1:P:108[C]:GLU:OE2[2_855]	1.91	0.29
1:O:146[D]:LYS:O	1:P:149[D]:GLY:O[2_855]	1.91	0.29
1:O:148[D]:LYS:O	1:P:135[D]:GLY:C[2_855]	1.91	0.29
1:O:155[D]:ARG:NH2	1:P:124[D]:GLY:O[2_855]	1.91	0.29
1:O:192[D]:GLN:NE2	1:P:117[D]:HIS:N[2_855]	1.91	0.29
1:P:40[D]:ARG:C	1:P:109[D]:PHE:CB[2_855]	1.91	0.29
1:M:131[A]:TRP:O	1:N:137[A]:GLU:C[2_756]	1.92	0.28
1:M:149[A]:GLY:C	1:N:135[A]:GLY:CA[2_756]	1.92	0.28
1:M:154[A]:GLN:NE2	1:N:145[A]:TYR:CD2[2_756]	1.92	0.28
1:M:164[A]:PRO:CB	1:N:120[A]:GLU:O[2_756]	1.92	0.28
1:N:113[A]:VAL:N	2:N:600[A]:UMP:OP1[2_756]	1.92	0.28
1:M:151[B]:ASP:O	1:N:145[B]:TYR:CZ[2_756]	1.92	0.28
1:M:164[B]:PRO:N	1:N:120[B]:GLU:C[2_756]	1.92	0.28
1:M:166[B]:ASP:CA	1:N:110[B]:LEU:CD1[2_756]	1.92	0.28
1:M:168[B]:ARG:N	1:N:115[B]:LEU:C[2_756]	1.92	0.28
1:N:40[B]:ARG:C	1:N:109[B]:PHE:CB[2_756]	1.92	0.28
1:N:40[B]:ARG:C	1:N:109[B]:PHE:N[2_756]	1.92	0.28
1:O:153[C]:LEU:O	1:P:139[C]:THR:CB[2_855]	1.92	0.28
1:O:155[C]:ARG:NE	1:P:125[C]:PRO:CD[2_855]	1.92	0.28
1:O:162[C]:ASN:CG	1:P:89[C]:ASP:CB[2_855]	1.92	0.28
1:O:168[C]:ARG:CZ	1:P:113[C]:VAL:C[2_855]	1.92	0.28
1:P:39[C]:ASP:CA	1:P:109[C]:PHE:N[2_855]	1.92	0.28
1:P:41[C]:THR:CG2	1:P:112[C]:LYS:CD[2_855]	1.92	0.28
1:O:132[D]:ARG:NH2	1:P:144[D]:ASP:C[2_855]	1.92	0.28
1:O:151[D]:ASP:C	1:P:137[D]:GLU:C[2_855]	1.92	0.28
1:O:168[D]:ARG:CD	1:P:115[D]:LEU:CD1[2_855]	1.92	0.28
1:P:37[D]:ARG:NH2	1:P:107[D]:LYS:CE[2_855]	1.92	0.28
1:P:39[D]:ASP:N	1:P:108[D]:GLU:CB[2_855]	1.92	0.28
1:P:40[D]:ARG:N	1:P:108[D]:GLU:C[2_855]	1.92	0.28
1:M:131[A]:TRP:O	1:N:137[A]:GLU:CA[2_756]	1.93	0.27
1:M:149[A]:GLY:O	1:N:135[A]:GLY:C[2_756]	1.93	0.27
1:M:153[A]:LEU:CA	1:N:139[A]:THR:CA[2_756]	1.93	0.27
1:M:161[A]:LYS:O	1:N:91[A]:LYS:CG[2_756]	1.93	0.27

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:162[A]:ASN:CB	1:N:90[A]:ALA:CA[2_756]	1.93	0.27
1:M:162[A]:ASN:ND2	1:N:89[A]:ASP:CB[2_756]	1.93	0.27
1:M:168[A]:ARG:CD	1:N:115[A]:LEU:CD1[2_756]	1.93	0.27
1:N:40[A]:ARG:O	1:N:109[A]:PHE:CD1[2_756]	1.93	0.27
1:M:131[B]:TRP:C	1:N:137[B]:GLU:OE2[2_756]	1.93	0.27
1:M:147[B]:GLY:C	1:N:149[B]:GLY:N[2_756]	1.93	0.27
1:M:157[B]:ILE:CA	1:N:142[B]:ASP:CG[2_756]	1.93	0.27
1:N:113[B]:VAL:C	2:N:600[B]:UMP:OP2[2_756]	1.93	0.27
1:B:146[C]:LYS:CE	1:P:287[C]:GLU:CG[1_455]	1.93	0.27
1:O:134[C]:PHE:O	1:P:177[C]:LYS:CD[2_855]	1.93	0.27
1:O:147[C]:GLY:CA	1:P:149[C]:GLY:C[2_855]	1.93	0.27
1:O:157[C]:ILE:CG1	1:P:143[C]:GLY:N[2_855]	1.93	0.27
1:O:159[C]:THR:C	1:P:122[C]:ASP:CA[2_855]	1.93	0.27
1:O:162[C]:ASN:CA	1:P:89[C]:ASP:OD2[2_855]	1.93	0.27
1:P:112[C]:LYS:O	2:P:700[C]:UMP:P[2_855]	1.93	0.27
1:O:162[D]:ASN:ND2	1:P:89[D]:ASP:C[2_855]	1.93	0.27
1:O:293[D]:ASP:CA	1:P:144[D]:ASP:OD2[2_855]	1.93	0.27
1:M:146[A]:LYS:C	1:N:149[A]:GLY:O[2_756]	1.94	0.26
1:M:161[A]:LYS:O	1:N:91[A]:LYS:CB[2_756]	1.94	0.26
1:M:167[A]:ARG:CG	1:N:111[A]:GLU:CB[2_756]	1.94	0.26
1:M:167[A]:ARG:NE	1:N:111[A]:GLU:N[2_756]	1.94	0.26
1:M:167[B]:ARG:C	1:N:117[B]:HIS:N[2_756]	1.94	0.26
1:M:192[B]:GLN:NE2	1:N:117[B]:HIS:CA[2_756]	1.94	0.26
1:N:39[B]:ASP:C	1:N:108[B]:GLU:CB[2_756]	1.94	0.26
1:N:39[B]:ASP:C	1:N:109[B]:PHE:N[2_756]	1.94	0.26
1:O:156[C]:VAL:O	1:P:140[C]:ASP:CB[2_855]	1.94	0.26
1:O:157[C]:ILE:C	1:P:141[C]:ALA:CB[2_855]	1.94	0.26
1:O:164[C]:PRO:C	1:P:120[C]:GLU:N[2_855]	1.94	0.26
1:P:38[C]:PRO:C	1:P:108[C]:GLU:N[2_855]	1.94	0.26
1:P:113[C]:VAL:CA	2:P:700[C]:UMP:OP3[2_855]	1.94	0.26
1:O:134[D]:PHE:C	1:P:177[D]:LYS:NZ[2_855]	1.94	0.26
1:O:151[D]:ASP:C	1:P:137[D]:GLU:O[2_855]	1.94	0.26
1:O:155[D]:ARG:CD	1:P:138[D]:TYR:CZ[2_855]	1.94	0.26
1:O:168[D]:ARG:N	1:P:115[D]:LEU:CB[2_855]	1.94	0.26
1:P:39[D]:ASP:C	1:P:106[D]:SER:OG[2_855]	1.94	0.26
1:P:110[D]:LEU:C	2:P:700[D]:UMP:OP3[2_855]	1.94	0.26
1:M:159[A]:THR:O	1:N:122[A]:ASP:CB[2_756]	1.95	0.25
1:M:159[A]:THR:CG2	1:N:122[A]:ASP:CB[2_756]	1.95	0.25
1:N:112[A]:LYS:C	2:N:600[A]:UMP:C5'[2_756]	1.95	0.25
1:M:152[B]:GLN:CA	1:N:138[B]:TYR:CA[2_756]	1.95	0.25
1:M:154[B]:GLN:N	1:N:143[B]:GLY:CA[2_756]	1.95	0.25
1:M:155[B]:ARG:NH2	1:N:124[B]:GLY:CA[2_756]	1.95	0.25

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:165[B]:THR:N	1:N:120[B]:GLU:CB[2_756]	1.95	0.25
1:N:39[B]:ASP:OD1	1:N:108[B]:GLU:OE1[2_756]	1.95	0.25
1:N:40[B]:ARG:CB	1:N:109[B]:PHE:O[2_756]	1.95	0.25
1:N:113[B]:VAL:CA	1:N:184[B]:LEU:CD1[2_756]	1.95	0.25
1:O:151[C]:ASP:CB	1:P:137[C]:GLU:C[2_855]	1.95	0.25
1:O:151[C]:ASP:CG	1:P:137[C]:GLU:C[2_855]	1.95	0.25
1:O:155[C]:ARG:CZ	1:P:125[C]:PRO:C[2_855]	1.95	0.25
1:O:162[C]:ASN:CG	1:P:89[C]:ASP:OD2[2_855]	1.95	0.25
1:O:149[D]:GLY:O	1:P:135[D]:GLY:N[2_855]	1.95	0.25
1:O:157[D]:ILE:CA	1:P:142[D]:ASP:CA[2_855]	1.95	0.25
1:O:157[D]:ILE:CB	1:P:143[D]:GLY:N[2_855]	1.95	0.25
1:O:161[D]:LYS:O	1:P:91[D]:LYS:CB[2_855]	1.95	0.25
1:O:162[D]:ASN:CG	1:P:89[D]:ASP:CB[2_855]	1.95	0.25
1:O:167[D]:ARG:CZ	1:P:111[D]:GLU:CA[2_855]	1.95	0.25
1:O:168[D]:ARG:N	1:P:115[D]:LEU:CA[2_855]	1.95	0.25
1:M:153[A]:LEU:CB	1:N:139[A]:THR:CG2[2_756]	1.96	0.24
1:M:157[A]:ILE:CD1	1:N:142[A]:ASP:C[2_756]	1.96	0.24
1:M:164[A]:PRO:CG	1:N:120[A]:GLU:CA[2_756]	1.96	0.24
1:M:169[A]:ILE:CA	1:N:117[A]:HIS:CE1[2_756]	1.96	0.24
1:N:114[A]:GLY:O	1:N:216[A]:ARG:NH1[2_756]	1.96	0.24
1:M:135[B]:GLY:N	1:N:177[B]:LYS:NZ[2_756]	1.96	0.24
1:M:154[B]:GLN:O	1:N:140[B]:ASP:O[2_756]	1.96	0.24
1:M:154[B]:GLN:CG	1:N:143[B]:GLY:O[2_756]	1.96	0.24
1:M:155[B]:ARG:O	1:N:141[B]:ALA:CA[2_756]	1.96	0.24
1:M:156[B]:VAL:N	1:N:141[B]:ALA:N[2_756]	1.96	0.24
1:M:157[B]:ILE:CD1	1:N:142[B]:ASP:CB[2_756]	1.96	0.24
1:M:158[B]:ASP:N	1:N:141[B]:ALA:CB[2_756]	1.96	0.24
1:M:169[B]:ILE:C	1:N:117[B]:HIS:ND1[2_756]	1.96	0.24
1:N:112[B]:LYS:N	2:N:600[B]:UMP:P[2_756]	1.96	0.24
1:N:113[B]:VAL:CA	2:N:600[B]:UMP:OP2[2_756]	1.96	0.24
1:O:164[C]:PRO:CD	1:P:120[C]:GLU:CB[2_855]	1.96	0.24
1:O:165[C]:THR:CA	1:P:107[C]:LYS:CG[2_855]	1.96	0.24
1:P:37[C]:ARG:NH2	1:P:107[C]:LYS:NZ[2_855]	1.96	0.24
1:O:131[D]:TRP:N	1:P:137[D]:GLU:OE2[2_855]	1.96	0.24
1:O:150[D]:VAL:O	1:P:137[D]:GLU:N[2_855]	1.96	0.24
1:O:155[D]:ARG:NH2	1:P:125[D]:PRO:C[2_855]	1.96	0.24
1:O:157[D]:ILE:CG2	1:P:142[D]:ASP:N[2_855]	1.96	0.24
1:O:192[D]:GLN:NE2	1:P:117[D]:HIS:CA[2_855]	1.96	0.24
1:M:147[A]:GLY:N	1:N:149[A]:GLY:N[2_756]	1.97	0.23
1:M:160[A]:ILE:CB	1:N:119[A]:ARG:NH2[2_756]	1.97	0.23
1:M:166[A]:ASP:N	1:N:110[A]:LEU:CG[2_756]	1.97	0.23
1:M:167[A]:ARG:CD	1:N:111[A]:GLU:N[2_756]	1.97	0.23

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:115[A]:LEU:N	1:N:216[A]:ARG:NH1[2_756]	1.97	0.23
1:M:148[B]:LYS:C	1:N:136[B]:ALA:N[2_756]	1.97	0.23
1:M:151[B]:ASP:OD1	1:N:145[B]:TYR:CE1[2_756]	1.97	0.23
1:M:168[B]:ARG:CD	1:N:115[B]:LEU:CG[2_756]	1.97	0.23
1:M:168[B]:ARG:NE	1:N:110[B]:LEU:O[2_756]	1.97	0.23
1:N:111[B]:GLU:CA	2:N:600[B]:UMP:OP1[2_756]	1.97	0.23
1:O:151[C]:ASP:C	1:P:138[C]:TYR:CB[2_855]	1.97	0.23
1:O:151[C]:ASP:OD1	1:P:145[C]:TYR:CD1[2_855]	1.97	0.23
1:O:154[C]:GLN:NE2	1:P:145[C]:TYR:CE2[2_855]	1.97	0.23
1:O:155[C]:ARG:N	1:P:138[C]:TYR:CD2[2_855]	1.97	0.23
1:O:162[C]:ASN:CA	1:P:121[C]:GLY:C[2_855]	1.97	0.23
1:O:148[D]:LYS:N	1:P:149[D]:GLY:CA[2_855]	1.97	0.23
1:O:148[D]:LYS:O	1:P:135[D]:GLY:O[2_855]	1.97	0.23
1:O:155[D]:ARG:O	1:P:141[D]:ALA:N[2_855]	1.97	0.23
1:O:156[D]:VAL:CG1	1:P:140[D]:ASP:OD1[2_855]	1.97	0.23
1:O:156[D]:VAL:CG2	1:P:140[D]:ASP:N[2_855]	1.97	0.23
1:O:159[D]:THR:CB	1:P:122[D]:ASP:CA[2_855]	1.97	0.23
1:O:161[D]:LYS:C	1:P:89[D]:ASP:OD2[2_855]	1.97	0.23
1:O:163[D]:ASN:O	1:P:120[D]:GLU:C[2_855]	1.97	0.23
1:O:167[D]:ARG:CA	1:P:116[D]:GLY:CA[2_855]	1.97	0.23
1:O:167[D]:ARG:CZ	1:P:112[D]:LYS:N[2_855]	1.97	0.23
1:P:39[D]:ASP:OD1	1:P:108[D]:GLU:OE1[2_855]	1.97	0.23
1:M:146[A]:LYS:C	1:N:149[A]:GLY:C[2_756]	1.98	0.22
1:M:153[A]:LEU:O	1:N:140[A]:ASP:O[2_756]	1.98	0.22
1:M:166[A]:ASP:O	1:N:115[A]:LEU:O[2_756]	1.98	0.22
1:M:167[A]:ARG:N	1:N:110[A]:LEU:CB[2_756]	1.98	0.22
1:N:38[A]:PRO:O	1:N:108[A]:GLU:CA[2_756]	1.98	0.22
1:N:114[A]:GLY:O	1:N:216[A]:ARG:NE[2_756]	1.98	0.22
1:M:152[B]:GLN:C	1:N:139[B]:THR:OG1[2_756]	1.98	0.22
1:M:152[B]:GLN:CB	1:N:139[B]:THR:N[2_756]	1.98	0.22
1:N:112[B]:LYS:CD	1:N:317[B]:ALA:OXT[2_756]	1.98	0.22
1:O:132[C]:ARG:O	1:P:137[C]:GLU:CA[2_855]	1.98	0.22
1:O:153[C]:LEU:CG	1:P:139[C]:THR:CB[2_855]	1.98	0.22
1:O:155[C]:ARG:N	1:P:138[C]:TYR:CE1[2_855]	1.98	0.22
1:O:155[C]:ARG:CA	1:P:138[C]:TYR:CD1[2_855]	1.98	0.22
1:O:155[C]:ARG:NH2	1:P:125[C]:PRO:CG[2_855]	1.98	0.22
1:O:157[C]:ILE:O	1:P:141[C]:ALA:CB[2_855]	1.98	0.22
1:O:157[C]:ILE:CD1	1:P:140[C]:ASP:CG[2_855]	1.98	0.22
1:O:159[C]:THR:CB	1:P:122[C]:ASP:OD2[2_855]	1.98	0.22
1:O:162[C]:ASN:CA	1:P:121[C]:GLY:O[2_855]	1.98	0.22
1:O:164[C]:PRO:CA	1:P:119[C]:ARG:CA[2_855]	1.98	0.22
1:O:167[C]:ARG:CB	1:P:116[C]:GLY:N[2_855]	1.98	0.22

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:168[C]:ARG:N	1:P:115[C]:LEU:N[2_855]	1.98	0.22
1:P:39[C]:ASP:CA	1:P:108[C]:GLU:O[2_855]	1.98	0.22
1:O:132[D]:ARG:CZ	1:P:144[D]:ASP:O[2_855]	1.98	0.22
1:O:152[D]:GLN:CA	1:P:138[D]:TYR:N[2_855]	1.98	0.22
1:O:154[D]:GLN:CB	1:P:145[D]:TYR:CG[2_855]	1.98	0.22
1:O:155[D]:ARG:CA	1:P:138[D]:TYR:OH[2_855]	1.98	0.22
1:O:168[D]:ARG:CG	1:P:115[D]:LEU:CD1[2_855]	1.98	0.22
1:F:201[A]:ASP:OD2	1:P:273[A]:GLU:CB[1_455]	1.99	0.21
1:M:132[A]:ARG:N	1:N:137[A]:GLU:CG[2_756]	1.99	0.21
1:M:157[A]:ILE:CG1	1:N:142[A]:ASP:N[2_756]	1.99	0.21
1:M:158[A]:ASP:CG	1:N:88[A]:THR:OG1[2_756]	1.99	0.21
1:N:38[A]:PRO:C	1:N:108[A]:GLU:N[2_756]	1.99	0.21
1:M:165[B]:THR:N	1:N:120[B]:GLU:CA[2_756]	1.99	0.21
1:M:169[B]:ILE:CG1	1:N:119[B]:ARG:N[2_756]	1.99	0.21
1:N:179[B]:LEU:CG	1:N:181[B]:LEU:N[2_756]	1.99	0.21
1:O:131[C]:TRP:CB	1:P:137[C]:GLU:CD[2_855]	1.99	0.21
1:O:152[C]:GLN:N	1:P:138[C]:TYR:CA[2_855]	1.99	0.21
1:O:152[C]:GLN:O	1:P:139[C]:THR:CA[2_855]	1.99	0.21
1:O:166[C]:ASP:OD2	1:P:110[C]:LEU:CD2[2_855]	1.99	0.21
1:O:293[C]:ASP:CG	1:P:144[C]:ASP:O[2_855]	1.99	0.21
1:O:131[D]:TRP:O	1:P:137[D]:GLU:CB[2_855]	1.99	0.21
1:O:154[D]:GLN:N	1:P:145[D]:TYR:CE1[2_855]	1.99	0.21
1:O:154[D]:GLN:C	1:P:145[D]:TYR:CE2[2_855]	1.99	0.21
1:O:154[D]:GLN:C	1:P:145[D]:TYR:OH[2_855]	1.99	0.21
1:O:161[D]:LYS:C	1:P:89[D]:ASP:CG[2_855]	1.99	0.21
1:O:164[D]:PRO:CA	1:P:120[D]:GLU:CA[2_855]	1.99	0.21
1:O:167[D]:ARG:NH1	1:P:111[D]:GLU:CB[2_855]	1.99	0.21
1:M:132[A]:ARG:CA	1:N:137[A]:GLU:CA[2_756]	2.00	0.20
1:M:134[A]:PHE:CG	1:N:177[A]:LYS:CE[2_756]	2.00	0.20
1:M:156[A]:VAL:CG1	1:N:140[A]:ASP:CA[2_756]	2.00	0.20
1:M:158[A]:ASP:N	1:N:141[A]:ALA:C[2_756]	2.00	0.20
1:M:161[A]:LYS:CG	1:N:119[A]:ARG:NH1[2_756]	2.00	0.20
1:M:162[A]:ASN:C	1:N:121[A]:GLY:O[2_756]	2.00	0.20
1:M:162[A]:ASN:CB	1:N:89[A]:ASP:CA[2_756]	2.00	0.20
1:M:167[A]:ARG:NE	1:N:111[A]:GLU:O[2_756]	2.00	0.20
1:M:293[A]:ASP:CG	1:N:144[A]:ASP:O[2_756]	2.00	0.20
1:N:112[A]:LYS:C	2:N:600[A]:UMP:OP3[2_756]	2.00	0.20
1:M:130[B]:GLN:C	1:N:137[B]:GLU:OE2[2_756]	2.00	0.20
1:M:153[B]:LEU:N	1:N:139[B]:THR:N[2_756]	2.00	0.20
1:M:155[B]:ARG:NE	1:N:124[B]:GLY:O[2_756]	2.00	0.20
1:M:155[B]:ARG:NH2	1:N:125[B]:PRO:CA[2_756]	2.00	0.20
1:M:160[B]:ILE:CB	1:N:119[B]:ARG:CZ[2_756]	2.00	0.20

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:162[B]:ASN:N	1:N:89[B]:ASP:CG[2_756]	2.00	0.20
1:M:170[B]:ILE:N	1:N:117[B]:HIS:ND1[2_756]	2.00	0.20
1:N:40[B]:ARG:CG	1:N:109[B]:PHE:O[2_756]	2.00	0.20
1:N:40[B]:ARG:CZ	1:N:112[B]:LYS:CB[2_756]	2.00	0.20
1:N:111[B]:GLU:C	2:N:600[B]:UMP:OP3[2_756]	2.00	0.20
1:O:146[C]:LYS:CE	1:P:147[C]:GLY:C[2_855]	2.00	0.20
1:O:153[C]:LEU:N	1:P:139[C]:THR:CA[2_855]	2.00	0.20
1:O:154[C]:GLN:O	1:P:140[C]:ASP:C[2_855]	2.00	0.20
1:O:159[C]:THR:CB	1:P:122[C]:ASP:CB[2_855]	2.00	0.20
1:O:161[C]:LYS:N	1:P:119[C]:ARG:CZ[2_855]	2.00	0.20
1:O:242[C]:THR:CG2	1:P:142[C]:ASP:CG[2_855]	2.00	0.20
1:P:40[C]:ARG:CB	1:P:109[C]:PHE:C[2_855]	2.00	0.20
1:O:148[D]:LYS:C	1:P:135[D]:GLY:CA[2_855]	2.00	0.20
1:O:149[D]:GLY:C	1:P:135[D]:GLY:CA[2_855]	2.00	0.20
1:O:155[D]:ARG:C	1:P:140[D]:ASP:O[2_855]	2.00	0.20
1:O:167[D]:ARG:CZ	1:P:111[D]:GLU:C[2_855]	2.00	0.20
1:M:153[A]:LEU:CA	1:N:139[A]:THR:CB[2_756]	2.01	0.19
1:M:154[A]:GLN:C	1:N:145[A]:TYR:OH[2_756]	2.01	0.19
1:M:159[A]:THR:CB	1:N:122[A]:ASP:CA[2_756]	2.01	0.19
1:M:160[A]:ILE:O	1:N:119[A]:ARG:CD[2_756]	2.01	0.19
1:M:168[A]:ARG:CA	1:N:115[A]:LEU:CA[2_756]	2.01	0.19
1:M:168[A]:ARG:CB	1:N:115[A]:LEU:CD1[2_756]	2.01	0.19
1:M:168[A]:ARG:NH1	1:N:113[A]:VAL:CG2[2_756]	2.01	0.19
1:M:293[A]:ASP:N	1:N:144[A]:ASP:OD2[2_756]	2.01	0.19
1:M:147[B]:GLY:N	1:N:148[B]:LYS:CA[2_756]	2.01	0.19
1:M:155[B]:ARG:NE	1:N:138[B]:TYR:CZ[2_756]	2.01	0.19
1:M:162[B]:ASN:CA	1:N:91[B]:LYS:CG[2_756]	2.01	0.19
1:M:163[B]:ASN:CB	1:N:120[B]:GLU:C[2_756]	2.01	0.19
1:M:168[B]:ARG:CB	1:N:115[B]:LEU:CB[2_756]	2.01	0.19
1:O:132[C]:ARG:O	1:P:136[C]:ALA:C[2_855]	2.01	0.19
1:O:148[C]:LYS:CG	1:O:177[C]:LYS:CD[2_855]	2.01	0.19
1:O:157[C]:ILE:CA	1:P:140[C]:ASP:CG[2_855]	2.01	0.19
1:O:159[C]:THR:CB	1:P:118[C]:ARG:NE[2_855]	2.01	0.19
1:O:163[C]:ASN:C	1:P:121[C]:GLY:N[2_855]	2.01	0.19
1:O:167[C]:ARG:NE	1:P:112[C]:LYS:N[2_855]	2.01	0.19
1:O:167[C]:ARG:NE	1:P:111[C]:GLU:CB[2_855]	2.01	0.19
1:O:134[D]:PHE:CE1	1:P:177[D]:LYS:CE[2_855]	2.01	0.19
1:O:152[D]:GLN:N	1:P:137[D]:GLU:O[2_855]	2.01	0.19
1:O:155[D]:ARG:N	1:P:140[D]:ASP:O[2_855]	2.01	0.19
1:O:157[D]:ILE:CG1	1:P:142[D]:ASP:O[2_855]	2.01	0.19
1:M:150[A]:VAL:CB	1:N:178[A]:ASP:CG[2_756]	2.02	0.18
1:M:152[A]:GLN:N	1:N:138[A]:TYR:CB[2_756]	2.02	0.18

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:156[A]:VAL:N	1:N:138[A]:TYR:CZ[2_756]	2.02	0.18
1:M:157[A]:ILE:CA	1:N:140[A]:ASP:C[2_756]	2.02	0.18
1:M:168[A]:ARG:CB	1:N:115[A]:LEU:CB[2_756]	2.02	0.18
1:M:169[A]:ILE:CA	1:N:118[A]:ARG:CD[2_756]	2.02	0.18
1:M:193[A]:PHE:O	1:N:117[A]:HIS:CA[2_756]	2.02	0.18
1:M:238[A]:ILE:CG2	1:N:140[A]:ASP:OD1[2_756]	2.02	0.18
1:M:293[A]:ASP:C	1:N:144[A]:ASP:OD2[2_756]	2.02	0.18
1:M:147[B]:GLY:N	1:N:148[B]:LYS:O[2_756]	2.02	0.18
1:M:153[B]:LEU:N	1:N:139[B]:THR:CA[2_756]	2.02	0.18
1:M:155[B]:ARG:CZ	1:N:125[B]:PRO:N[2_756]	2.02	0.18
1:M:155[B]:ARG:NH1	1:N:125[B]:PRO:CA[2_756]	2.02	0.18
1:M:157[B]:ILE:CG1	1:N:142[B]:ASP:O[2_756]	2.02	0.18
1:M:158[B]:ASP:N	1:N:141[B]:ALA:O[2_756]	2.02	0.18
1:M:159[B]:THR:CA	1:N:122[B]:ASP:CB[2_756]	2.02	0.18
1:N:40[B]:ARG:N	1:N:108[B]:GLU:CA[2_756]	2.02	0.18
1:N:42[B]:GLY:C	1:N:108[B]:GLU:OE2[2_756]	2.02	0.18
1:N:114[B]:GLY:O	1:N:216[B]:ARG:NH1[2_756]	2.02	0.18
1:N:115[B]:LEU:N	1:N:216[B]:ARG:CZ[2_756]	2.02	0.18
1:O:132[C]:ARG:CA	1:P:137[C]:GLU:CG[2_855]	2.02	0.18
1:O:156[C]:VAL:N	1:P:140[C]:ASP:CA[2_855]	2.02	0.18
1:O:163[C]:ASN:OD1	1:P:105[C]:GLY:CA[2_855]	2.02	0.18
1:O:165[C]:THR:OG1	1:P:107[C]:LYS:C[2_855]	2.02	0.18
1:O:167[C]:ARG:CG	1:P:111[C]:GLU:CG[2_855]	2.02	0.18
1:O:168[C]:ARG:CG	1:P:115[C]:LEU:CD2[2_855]	2.02	0.18
1:P:43[C]:THR:N	1:P:108[C]:GLU:OE2[2_855]	2.02	0.18
1:O:131[D]:TRP:CA	1:P:137[D]:GLU:CG[2_855]	2.02	0.18
1:O:147[D]:GLY:C	1:P:134[D]:PHE:O[2_855]	2.02	0.18
1:O:150[D]:VAL:N	1:P:136[D]:ALA:O[2_855]	2.02	0.18
1:O:153[D]:LEU:CB	1:P:139[D]:THR:OG1[2_855]	2.02	0.18
1:O:156[D]:VAL:CA	1:P:140[D]:ASP:N[2_855]	2.02	0.18
1:O:157[D]:ILE:C	1:P:141[D]:ALA:CB[2_855]	2.02	0.18
1:O:159[D]:THR:CA	1:P:122[D]:ASP:CG[2_855]	2.02	0.18
1:O:159[D]:THR:CG2	1:P:122[D]:ASP:O[2_855]	2.02	0.18
1:P:109[D]:PHE:O	2:P:700[D]:UMP:OP3[2_855]	2.02	0.18
1:P:111[D]:GLU:C	2:P:700[D]:UMP:OP1[2_855]	2.02	0.18
1:M:147[A]:GLY:N	1:N:150[A]:VAL:N[2_756]	2.03	0.17
1:M:151[A]:ASP:OD2	1:N:145[A]:TYR:CE1[2_756]	2.03	0.17
1:M:153[A]:LEU:CD1	1:N:139[A]:THR:CG2[2_756]	2.03	0.17
1:M:155[A]:ARG:C	1:N:138[A]:TYR:CE1[2_756]	2.03	0.17
1:M:159[A]:THR:CG2	1:N:122[A]:ASP:CA[2_756]	2.03	0.17
1:M:167[A]:ARG:CB	1:N:116[A]:GLY:N[2_756]	2.03	0.17
1:M:168[A]:ARG:CA	1:N:115[A]:LEU:CG[2_756]	2.03	0.17

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:168[A]:ARG:NE	1:N:113[A]:VAL:CB[2_756]	2.03	0.17
1:M:169[A]:ILE:CB	1:N:118[A]:ARG:CB[2_756]	2.03	0.17
1:M:170[A]:ILE:CD1	1:N:117[A]:HIS:CD2[2_756]	2.03	0.17
1:M:293[A]:ASP:OD1	1:N:148[A]:LYS:NZ[2_756]	2.03	0.17
1:N:40[A]:ARG:CB	1:N:109[A]:PHE:CB[2_756]	2.03	0.17
1:N:113[A]:VAL:C	2:N:600[A]:UMP:OP1[2_756]	2.03	0.17
1:M:133[B]:HIS:N	1:N:137[B]:GLU:CB[2_756]	2.03	0.17
1:M:156[B]:VAL:CG2	1:N:140[B]:ASP:CB[2_756]	2.03	0.17
1:M:157[B]:ILE:CG2	1:N:142[B]:ASP:OD2[2_756]	2.03	0.17
1:M:163[B]:ASN:C	1:N:121[B]:GLY:N[2_756]	2.03	0.17
1:M:167[B]:ARG:NH2	1:N:111[B]:GLU:C[2_756]	2.03	0.17
1:M:168[B]:ARG:O	1:N:118[B]:ARG:CG[2_756]	2.03	0.17
1:M:169[B]:ILE:N	1:N:118[B]:ARG:N[2_756]	2.03	0.17
1:M:192[B]:GLN:NE2	1:N:117[B]:HIS:CB[2_756]	2.03	0.17
1:O:146[C]:LYS:CD	1:P:147[C]:GLY:O[2_855]	2.03	0.17
1:O:147[C]:GLY:CA	1:P:150[C]:VAL:N[2_855]	2.03	0.17
1:O:157[C]:ILE:CG2	1:P:142[C]:ASP:C[2_855]	2.03	0.17
1:O:157[C]:ILE:CG2	1:P:142[C]:ASP:CB[2_855]	2.03	0.17
1:O:165[C]:THR:OG1	1:P:107[C]:LYS:CB[2_855]	2.03	0.17
1:O:167[C]:ARG:N	1:P:116[C]:GLY:N[2_855]	2.03	0.17
1:O:168[C]:ARG:NH2	1:P:113[C]:VAL:CG2[2_855]	2.03	0.17
1:O:169[C]:ILE:O	1:P:117[C]:HIS:CE1[2_855]	2.03	0.17
1:O:132[D]:ARG:O	1:P:136[D]:ALA:C[2_855]	2.03	0.17
1:O:149[D]:GLY:N	1:P:135[D]:GLY:O[2_855]	2.03	0.17
1:O:151[D]:ASP:OD2	1:P:137[D]:GLU:O[2_855]	2.03	0.17
1:O:152[D]:GLN:O	1:P:138[D]:TYR:C[2_855]	2.03	0.17
1:O:158[D]:ASP:OD2	1:P:141[D]:ALA:O[2_855]	2.03	0.17
1:O:168[D]:ARG:C	1:P:118[D]:ARG:CG[2_855]	2.03	0.17
1:P:111[D]:GLU:O	1:P:217[D]:SER:OG[2_855]	2.03	0.17
1:M:148[A]:LYS:N	1:N:134[A]:PHE:O[2_756]	2.04	0.16
1:M:154[A]:GLN:CB	1:N:145[A]:TYR:CG[2_756]	2.04	0.16
1:M:157[A]:ILE:CG1	1:N:140[A]:ASP:OD2[2_756]	2.04	0.16
1:M:157[A]:ILE:CD1	1:N:143[A]:GLY:N[2_756]	2.04	0.16
1:M:163[A]:ASN:ND2	1:N:105[A]:GLY:CA[2_756]	2.04	0.16
1:M:167[A]:ARG:NE	1:N:111[A]:GLU:CB[2_756]	2.04	0.16
1:M:167[A]:ARG:CZ	1:N:112[A]:LYS:CA[2_756]	2.04	0.16
1:N:40[A]:ARG:CG	1:N:109[A]:PHE:CE2[2_756]	2.04	0.16
1:M:130[B]:GLN:O	1:N:137[B]:GLU:OE2[2_756]	2.04	0.16
1:M:137[B]:GLU:N	1:M:177[B]:LYS:NZ[2_756]	2.04	0.16
1:M:146[B]:LYS:CD	1:N:147[B]:GLY:O[2_756]	2.04	0.16
1:M:149[B]:GLY:O	1:N:136[B]:ALA:C[2_756]	2.04	0.16
1:M:167[B]:ARG:C	1:N:116[B]:GLY:C[2_756]	2.04	0.16

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:293[B]:ASP:CG	1:N:144[B]:ASP:CB[2_756]	2.04	0.16
1:P:40[C]:ARG:NE	1:P:113[C]:VAL:CG1[2_855]	2.04	0.16
1:O:157[D]:ILE:CG2	1:P:142[D]:ASP:C[2_855]	2.04	0.16
1:P:40[D]:ARG:N	1:P:109[D]:PHE:CB[2_855]	2.04	0.16
1:F:201[A]:ASP:CB	1:P:273[A]:GLU:OE2[1_455]	2.05	0.15
1:M:134[A]:PHE:CD1	1:N:177[A]:LYS:NZ[2_756]	2.05	0.15
1:M:149[A]:GLY:CA	1:N:135[A]:GLY:CA[2_756]	2.05	0.15
1:M:151[A]:ASP:C	1:N:138[A]:TYR:CB[2_756]	2.05	0.15
1:M:155[A]:ARG:CA	1:N:138[A]:TYR:OH[2_756]	2.05	0.15
1:M:163[A]:ASN:CG	1:N:105[A]:GLY:C[2_756]	2.05	0.15
1:M:192[A]:GLN:NE2	1:N:117[A]:HIS:N[2_756]	2.05	0.15
1:N:113[A]:VAL:C	1:N:216[A]:ARG:NH2[2_756]	2.05	0.15
1:M:164[B]:PRO:N	1:N:120[B]:GLU:N[2_756]	2.05	0.15
1:M:167[B]:ARG:O	1:N:116[B]:GLY:CA[2_756]	2.05	0.15
1:M:169[B]:ILE:CB	1:N:117[B]:HIS:O[2_756]	2.05	0.15
1:N:111[B]:GLU:CA	2:N:600[B]:UMP:OP3[2_756]	2.05	0.15
1:N:114[B]:GLY:N	1:N:216[B]:ARG:NH2[2_756]	2.05	0.15
1:N:114[B]:GLY:C	1:N:216[B]:ARG:NE[2_756]	2.05	0.15
1:N:179[B]:LEU:CB	1:N:181[B]:LEU:CA[2_756]	2.05	0.15
1:O:155[C]:ARG:CG	1:P:125[C]:PRO:CD[2_855]	2.05	0.15
1:O:159[C]:THR:O	1:P:119[C]:ARG:O[2_855]	2.05	0.15
1:O:293[C]:ASP:CB	1:P:144[C]:ASP:CG[2_855]	2.05	0.15
1:P:112[C]:LYS:O	2:P:700[C]:UMP:C5'[2_855]	2.05	0.15
1:P:112[C]:LYS:NZ	1:P:317[C]:ALA:OXT[2_855]	2.05	0.15
1:O:156[D]:VAL:O	1:P:141[D]:ALA:N[2_855]	2.05	0.15
1:O:158[D]:ASP:CA	1:P:141[D]:ALA:CA[2_855]	2.05	0.15
1:O:160[D]:ILE:CG2	1:P:119[D]:ARG:CD[2_855]	2.05	0.15
1:O:165[D]:THR:C	1:P:107[D]:LYS:CD[2_855]	2.05	0.15
1:O:168[D]:ARG:NH2	1:P:115[D]:LEU:CD1[2_855]	2.05	0.15
1:O:169[D]:ILE:CG1	1:P:118[D]:ARG:CG[2_855]	2.05	0.15
1:P:39[D]:ASP:OD2	1:P:108[D]:GLU:O[2_855]	2.05	0.15
1:P:40[D]:ARG:CB	1:P:109[D]:PHE:O[2_855]	2.05	0.15
1:P:111[D]:GLU:O	2:P:700[D]:UMP:O5'[2_855]	2.05	0.15
1:P:114[D]:GLY:N	2:P:700[D]:UMP:P[2_855]	2.05	0.15
1:M:84[A]:VAL:O	1:N:148[A]:LYS:NZ[2_756]	2.06	0.14
1:M:153[A]:LEU:O	1:N:139[A]:THR:OG1[2_756]	2.06	0.14
1:M:156[A]:VAL:CA	1:N:140[A]:ASP:C[2_756]	2.06	0.14
1:M:156[A]:VAL:C	1:N:140[A]:ASP:CB[2_756]	2.06	0.14
1:M:165[A]:THR:OG1	1:N:106[A]:SER:O[2_756]	2.06	0.14
1:M:168[A]:ARG:N	1:N:115[A]:LEU:O[2_756]	2.06	0.14
1:M:168[A]:ARG:CG	1:N:115[A]:LEU:CD1[2_756]	2.06	0.14
1:N:39[A]:ASP:C	1:N:109[A]:PHE:CA[2_756]	2.06	0.14

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:40[A]:ARG:CD	1:N:109[A]:PHE:CZ[2_756]	2.06	0.14
1:N:44[A]:GLY:CA	1:N:108[A]:GLU:CD[2_756]	2.06	0.14
1:M:147[B]:GLY:C	1:N:150[B]:VAL:N[2_756]	2.06	0.14
1:M:163[B]:ASN:CG	1:N:121[B]:GLY:CA[2_756]	2.06	0.14
1:M:167[B]:ARG:NH1	1:N:111[B]:GLU:CB[2_756]	2.06	0.14
1:N:110[B]:LEU:O	2:N:600[B]:UMP:OP1[2_756]	2.06	0.14
1:N:180[B]:PRO:CB	1:N:182[B]:MET:CE[2_756]	2.06	0.14
1:O:163[C]:ASN:O	1:P:119[C]:ARG:O[2_855]	2.06	0.14
1:O:164[C]:PRO:CD	1:P:121[C]:GLY:N[2_855]	2.06	0.14
1:O:165[C]:THR:O	1:P:107[C]:LYS:O[2_855]	2.06	0.14
1:O:242[C]:THR:CB	1:P:119[C]:ARG:NH2[2_855]	2.06	0.14
1:P:39[C]:ASP:CB	1:P:108[C]:GLU:CG[2_855]	2.06	0.14
1:P:40[C]:ARG:O	1:P:109[C]:PHE:CD1[2_855]	2.06	0.14
1:O:159[D]:THR:C	1:P:122[D]:ASP:CB[2_855]	2.06	0.14
1:O:166[D]:ASP:CA	1:P:110[D]:LEU:CG[2_855]	2.06	0.14
1:O:169[D]:ILE:CB	1:P:118[D]:ARG:CA[2_855]	2.06	0.14
1:O:292[D]:ILE:CG2	1:P:144[D]:ASP:CA[2_855]	2.06	0.14
1:P:40[D]:ARG:CD	1:P:109[D]:PHE:CD2[2_855]	2.06	0.14
1:P:110[D]:LEU:O	2:P:700[D]:UMP:OP1[2_855]	2.06	0.14
1:M:134[A]:PHE:CE1	1:N:177[A]:LYS:CE[2_756]	2.07	0.13
1:M:151[A]:ASP:C	1:N:137[A]:GLU:C[2_756]	2.07	0.13
1:M:154[A]:GLN:O	1:N:140[A]:ASP:O[2_756]	2.07	0.13
1:M:154[A]:GLN:CD	1:N:145[A]:TYR:CE2[2_756]	2.07	0.13
1:M:157[A]:ILE:CB	1:N:141[A]:ALA:O[2_756]	2.07	0.13
1:M:160[A]:ILE:CA	1:N:119[A]:ARG:CG[2_756]	2.07	0.13
1:M:167[A]:ARG:CB	1:N:111[A]:GLU:CA[2_756]	2.07	0.13
1:M:167[A]:ARG:CG	1:N:111[A]:GLU:CG[2_756]	2.07	0.13
1:M:167[A]:ARG:CD	1:N:111[A]:GLU:CG[2_756]	2.07	0.13
1:N:112[A]:LYS:O	2:N:600[A]:UMP:C4'[2_756]	2.07	0.13
1:N:114[A]:GLY:CA	1:N:216[A]:ARG:NH2[2_756]	2.07	0.13
1:M:131[B]:TRP:C	1:N:137[B]:GLU:CD[2_756]	2.07	0.13
1:M:147[B]:GLY:N	1:N:149[B]:GLY:CA[2_756]	2.07	0.13
1:M:148[B]:LYS:O	1:N:136[B]:ALA:CA[2_756]	2.07	0.13
1:M:155[B]:ARG:NE	1:N:138[B]:TYR:CE1[2_756]	2.07	0.13
1:M:155[B]:ARG:NH1	1:N:124[B]:GLY:O[2_756]	2.07	0.13
1:M:167[B]:ARG:C	1:N:116[B]:GLY:CA[2_756]	2.07	0.13
1:M:170[B]:ILE:CG1	1:N:117[B]:HIS:NE2[2_756]	2.07	0.13
1:N:39[B]:ASP:CA	1:N:107[B]:LYS:C[2_756]	2.07	0.13
1:O:148[C]:LYS:O	1:P:135[C]:GLY:C[2_855]	2.07	0.13
1:O:155[C]:ARG:CG	1:P:138[C]:TYR:CE2[2_855]	2.07	0.13
1:O:162[C]:ASN:OD1	1:P:89[C]:ASP:CA[2_855]	2.07	0.13
1:O:168[C]:ARG:CZ	1:P:113[C]:VAL:CA[2_855]	2.07	0.13

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:168[C]:ARG:NH1	1:P:113[C]:VAL:C[2_855]	2.07	0.13
1:O:168[C]:ARG:NH1	1:P:113[C]:VAL:O[2_855]	2.07	0.13
1:P:41[C]:THR:CA	1:P:112[C]:LYS:CD[2_855]	2.07	0.13
1:P:114[C]:GLY:CA	1:P:216[C]:ARG:NH2[2_855]	2.07	0.13
1:O:131[D]:TRP:C	1:P:137[D]:GLU:OE2[2_855]	2.07	0.13
1:O:155[D]:ARG:N	1:P:138[D]:TYR:CE1[2_855]	2.07	0.13
1:O:159[D]:THR:CG2	1:P:122[D]:ASP:C[2_855]	2.07	0.13
1:O:162[D]:ASN:CB	1:P:89[D]:ASP:O[2_855]	2.07	0.13
1:O:163[D]:ASN:C	1:P:121[D]:GLY:CA[2_855]	2.07	0.13
1:O:164[D]:PRO:CA	1:P:120[D]:GLU:O[2_855]	2.07	0.13
1:O:165[D]:THR:CB	1:P:107[D]:LYS:CA[2_855]	2.07	0.13
1:P:40[D]:ARG:CD	1:P:109[D]:PHE:CE2[2_855]	2.07	0.13
1:P:40[D]:ARG:NE	1:P:113[D]:VAL:CG1[2_855]	2.07	0.13
1:P:112[D]:LYS:C	2:P:700[D]:UMP:P[2_855]	2.07	0.13
1:M:157[A]:ILE:N	1:N:141[A]:ALA:CA[2_756]	2.08	0.12
1:M:159[A]:THR:O	1:N:121[A]:GLY:C[2_756]	2.08	0.12
1:M:164[A]:PRO:CA	1:N:120[A]:GLU:O[2_756]	2.08	0.12
1:M:166[A]:ASP:C	1:N:115[A]:LEU:O[2_756]	2.08	0.12
1:M:195[A]:VAL:CG2	1:N:119[A]:ARG:CA[2_756]	2.08	0.12
1:N:40[A]:ARG:CB	1:N:109[A]:PHE:CA[2_756]	2.08	0.12
1:N:40[A]:ARG:CG	1:N:109[A]:PHE:CD2[2_756]	2.08	0.12
1:N:43[A]:THR:N	1:N:108[A]:GLU:OE2[2_756]	2.08	0.12
1:M:151[B]:ASP:OD2	1:N:145[B]:TYR:CD1[2_756]	2.08	0.12
1:M:152[B]:GLN:N	1:N:137[B]:GLU:O[2_756]	2.08	0.12
1:M:154[B]:GLN:O	1:N:141[B]:ALA:CA[2_756]	2.08	0.12
1:M:154[B]:GLN:O	1:N:142[B]:ASP:N[2_756]	2.08	0.12
1:M:158[B]:ASP:O	1:N:89[B]:ASP:CG[2_756]	2.08	0.12
1:M:159[B]:THR:CG2	1:N:122[B]:ASP:CG[2_756]	2.08	0.12
1:M:162[B]:ASN:C	1:N:91[B]:LYS:CG[2_756]	2.08	0.12
1:M:164[B]:PRO:C	1:N:119[B]:ARG:C[2_756]	2.08	0.12
1:M:165[B]:THR:O	1:N:107[B]:LYS:CG[2_756]	2.08	0.12
1:M:165[B]:THR:OG1	1:N:107[B]:LYS:CB[2_756]	2.08	0.12
1:M:169[B]:ILE:N	1:N:117[B]:HIS:ND1[2_756]	2.08	0.12
1:N:111[B]:GLU:C	2:N:600[B]:UMP:OP1[2_756]	2.08	0.12
1:N:179[B]:LEU:CA	1:N:181[B]:LEU:N[2_756]	2.08	0.12
1:O:156[C]:VAL:N	1:P:139[C]:THR:C[2_855]	2.08	0.12
1:O:157[C]:ILE:N	1:P:140[C]:ASP:N[2_855]	2.08	0.12
1:O:157[C]:ILE:CD1	1:P:140[C]:ASP:OD1[2_855]	2.08	0.12
1:P:40[C]:ARG:CB	1:P:109[C]:PHE:CA[2_855]	2.08	0.12
1:P:112[C]:LYS:CE	1:P:317[C]:ALA:OXT[2_855]	2.08	0.12
1:O:134[D]:PHE:CD1	1:P:177[D]:LYS:NZ[2_855]	2.08	0.12
1:O:155[D]:ARG:CZ	1:P:125[D]:PRO:C[2_855]	2.08	0.12

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:157[D]:ILE:O	1:P:142[D]:ASP:OD2[2_855]	2.08	0.12
1:O:162[D]:ASN:CA	1:P:91[D]:LYS:N[2_855]	2.08	0.12
1:O:162[D]:ASN:CB	1:P:89[D]:ASP:CA[2_855]	2.08	0.12
1:O:162[D]:ASN:OD1	1:P:89[D]:ASP:O[2_855]	2.08	0.12
1:P:40[D]:ARG:CG	1:P:109[D]:PHE:CB[2_855]	2.08	0.12
1:P:113[D]:VAL:C	1:P:216[D]:ARG:NH2[2_855]	2.08	0.12
1:M:155[A]:ARG:CG	1:N:124[A]:GLY:CA[2_756]	2.09	0.11
1:M:155[A]:ARG:NH2	1:N:126[A]:VAL:N[2_756]	2.09	0.11
1:M:157[A]:ILE:CB	1:N:143[A]:GLY:N[2_756]	2.09	0.11
1:M:159[A]:THR:C	1:N:122[A]:ASP:N[2_756]	2.09	0.11
1:M:168[A]:ARG:O	1:N:118[A]:ARG:NH2[2_756]	2.09	0.11
1:M:293[A]:ASP:CG	1:N:144[A]:ASP:CG[2_756]	2.09	0.11
1:M:132[B]:ARG:O	1:N:137[B]:GLU:N[2_756]	2.09	0.11
1:M:152[B]:GLN:C	1:N:139[B]:THR:C[2_756]	2.09	0.11
1:M:154[B]:GLN:CB	1:N:143[B]:GLY:O[2_756]	2.09	0.11
1:M:156[B]:VAL:CG1	1:N:140[B]:ASP:CB[2_756]	2.09	0.11
1:M:170[B]:ILE:CG1	1:N:117[B]:HIS:CE1[2_756]	2.09	0.11
1:N:40[B]:ARG:O	1:N:109[B]:PHE:CB[2_756]	2.09	0.11
1:N:110[B]:LEU:O	2:N:600[B]:UMP:OP2[2_756]	2.09	0.11
1:O:147[C]:GLY:CA	1:P:134[C]:PHE:O[2_855]	2.09	0.11
1:O:153[C]:LEU:CG	1:P:139[C]:THR:OG1[2_855]	2.09	0.11
1:O:155[C]:ARG:O	1:P:138[C]:TYR:CZ[2_855]	2.09	0.11
1:O:155[C]:ARG:CZ	1:P:125[C]:PRO:CG[2_855]	2.09	0.11
1:O:159[C]:THR:N	1:P:122[C]:ASP:OD2[2_855]	2.09	0.11
1:O:159[C]:THR:CG2	1:P:118[C]:ARG:NE[2_855]	2.09	0.11
1:O:161[C]:LYS:CG	1:P:119[C]:ARG:CZ[2_855]	2.09	0.11
1:O:162[C]:ASN:C	1:P:121[C]:GLY:N[2_855]	2.09	0.11
1:O:162[C]:ASN:CB	1:P:89[C]:ASP:C[2_855]	2.09	0.11
1:O:162[C]:ASN:CG	1:P:89[C]:ASP:O[2_855]	2.09	0.11
1:O:162[C]:ASN:OD1	1:P:89[C]:ASP:CG[2_855]	2.09	0.11
1:O:166[C]:ASP:CB	1:P:110[C]:LEU:CD1[2_855]	2.09	0.11
1:O:167[C]:ARG:O	1:P:116[C]:GLY:N[2_855]	2.09	0.11
1:O:152[D]:GLN:CA	1:P:138[D]:TYR:CB[2_855]	2.09	0.11
1:O:152[D]:GLN:C	1:P:138[D]:TYR:CA[2_855]	2.09	0.11
1:O:167[D]:ARG:CB	1:P:115[D]:LEU:C[2_855]	2.09	0.11
1:O:293[D]:ASP:OD2	1:P:144[D]:ASP:C[2_855]	2.09	0.11
1:O:293[D]:ASP:OD2	1:P:144[D]:ASP:O[2_855]	2.09	0.11
1:P:38[D]:PRO:O	1:P:108[D]:GLU:N[2_855]	2.09	0.11
1:P:40[D]:ARG:CA	1:P:109[D]:PHE:CG[2_855]	2.09	0.11
1:P:40[D]:ARG:NE	1:P:109[D]:PHE:O[2_855]	2.09	0.11
1:M:148[A]:LYS:CB	1:M:177[A]:LYS:CD[2_756]	2.10	0.10
1:M:152[A]:GLN:O	1:N:138[A]:TYR:CD2[2_756]	2.10	0.10

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:153[A]:LEU:C	1:N:139[A]:THR:OG1[2_756]	2.10	0.10
1:M:158[A]:ASP:O	1:N:89[A]:ASP:CA[2_756]	2.10	0.10
1:M:160[A]:ILE:CB	1:N:119[A]:ARG:CZ[2_756]	2.10	0.10
1:M:161[A]:LYS:N	1:N:119[A]:ARG:NH1[2_756]	2.10	0.10
1:M:167[A]:ARG:CB	1:N:110[A]:LEU:O[2_756]	2.10	0.10
1:N:38[A]:PRO:O	1:N:107[A]:LYS:C[2_756]	2.10	0.10
1:M:150[B]:VAL:C	1:N:137[B]:GLU:N[2_756]	2.10	0.10
1:M:151[B]:ASP:N	1:N:137[B]:GLU:O[2_756]	2.10	0.10
1:M:162[B]:ASN:CG	1:N:89[B]:ASP:CB[2_756]	2.10	0.10
1:M:163[B]:ASN:C	1:N:120[B]:GLU:N[2_756]	2.10	0.10
1:M:167[B]:ARG:O	1:N:116[B]:GLY:C[2_756]	2.10	0.10
1:M:168[B]:ARG:C	1:N:117[B]:HIS:ND1[2_756]	2.10	0.10
1:O:152[C]:GLN:N	1:P:138[C]:TYR:O[2_855]	2.10	0.10
1:O:155[C]:ARG:CZ	1:P:125[C]:PRO:CB[2_855]	2.10	0.10
1:O:167[C]:ARG:O	1:P:114[C]:GLY:O[2_855]	2.10	0.10
1:P:42[C]:GLY:CA	1:P:108[C]:GLU:OE2[2_855]	2.10	0.10
1:O:151[D]:ASP:N	1:P:136[D]:ALA:C[2_855]	2.10	0.10
1:O:156[D]:VAL:CB	1:P:140[D]:ASP:CG[2_855]	2.10	0.10
1:O:161[D]:LYS:O	1:P:91[D]:LYS:CG[2_855]	2.10	0.10
1:O:170[D]:ILE:CG1	1:P:117[D]:HIS:CE1[2_855]	2.10	0.10
1:O:293[D]:ASP:OD2	1:P:144[D]:ASP:OD1[2_855]	2.10	0.10
1:P:114[D]:GLY:N	2:P:700[D]:UMP:OP1[2_855]	2.10	0.10
1:F:201[A]:ASP:OD2	1:P:273[A]:GLU:OE1[1_455]	2.11	0.09
1:M:148[A]:LYS:CG	1:M:177[A]:LYS:CG[2_756]	2.11	0.09
1:M:149[A]:GLY:C	1:N:135[A]:GLY:C[2_756]	2.11	0.09
1:M:153[A]:LEU:CB	1:N:139[A]:THR:OG1[2_756]	2.11	0.09
1:M:157[A]:ILE:O	1:N:141[A]:ALA:CA[2_756]	2.11	0.09
1:M:159[A]:THR:CB	1:N:122[A]:ASP:O[2_756]	2.11	0.09
1:M:163[A]:ASN:CG	1:N:105[A]:GLY:O[2_756]	2.11	0.09
1:M:164[A]:PRO:O	1:N:118[A]:ARG:O[2_756]	2.11	0.09
1:M:167[A]:ARG:O	1:N:114[A]:GLY:C[2_756]	2.11	0.09
1:N:37[A]:ARG:NH2	1:N:107[A]:LYS:NZ[2_756]	2.11	0.09
1:M:146[B]:LYS:CD	1:N:147[B]:GLY:CA[2_756]	2.11	0.09
1:M:150[B]:VAL:C	1:N:136[B]:ALA:C[2_756]	2.11	0.09
1:M:153[B]:LEU:CB	1:N:139[B]:THR:OG1[2_756]	2.11	0.09
1:M:155[B]:ARG:CA	1:N:138[B]:TYR:CZ[2_756]	2.11	0.09
1:N:39[B]:ASP:OD2	1:N:108[B]:GLU:O[2_756]	2.11	0.09
1:N:40[B]:ARG:N	1:N:108[B]:GLU:N[2_756]	2.11	0.09
1:O:157[C]:ILE:N	1:P:140[C]:ASP:CG[2_855]	2.11	0.09
1:O:158[C]:ASP:N	1:P:140[C]:ASP:C[2_855]	2.11	0.09
1:O:159[C]:THR:CA	1:P:122[C]:ASP:OD2[2_855]	2.11	0.09
1:O:161[C]:LYS:O	1:P:91[C]:LYS:CG[2_855]	2.11	0.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:162[C]:ASN:OD1	1:P:90[C]:ALA:N[2_855]	2.11	0.09
1:O:164[C]:PRO:O	1:P:107[C]:LYS:CE[2_855]	2.11	0.09
1:O:166[C]:ASP:N	1:P:110[C]:LEU:CD1[2_855]	2.11	0.09
1:P:39[C]:ASP:C	1:P:109[C]:PHE:CA[2_855]	2.11	0.09
1:P:40[C]:ARG:CG	1:P:109[C]:PHE:CD1[2_855]	2.11	0.09
1:P:41[C]:THR:CA	1:P:112[C]:LYS:NZ[2_855]	2.11	0.09
1:O:147[D]:GLY:N	1:P:148[D]:LYS:C[2_855]	2.11	0.09
1:O:153[D]:LEU:CA	1:P:139[D]:THR:CG2[2_855]	2.11	0.09
1:O:159[D]:THR:O	1:P:122[D]:ASP:N[2_855]	2.11	0.09
1:O:160[D]:ILE:CG2	1:P:119[D]:ARG:CZ[2_855]	2.11	0.09
1:O:163[D]:ASN:C	1:P:120[D]:GLU:CA[2_855]	2.11	0.09
1:O:293[D]:ASP:OD2	1:P:144[D]:ASP:CB[2_855]	2.11	0.09
1:P:115[D]:LEU:N	1:P:216[D]:ARG:CZ[2_855]	2.11	0.09
1:M:132[A]:ARG:NH2	1:N:144[A]:ASP:O[2_756]	2.12	0.08
1:M:148[A]:LYS:O	1:N:135[A]:GLY:CA[2_756]	2.12	0.08
1:M:156[A]:VAL:N	1:N:140[A]:ASP:CA[2_756]	2.12	0.08
1:M:157[A]:ILE:CD1	1:N:142[A]:ASP:CA[2_756]	2.12	0.08
1:M:159[A]:THR:CA	1:N:122[A]:ASP:C[2_756]	2.12	0.08
1:M:162[A]:ASN:C	1:N:121[A]:GLY:C[2_756]	2.12	0.08
1:N:112[A]:LYS:O	2:N:600[A]:UMP:P[2_756]	2.12	0.08
1:M:152[B]:GLN:CB	1:N:139[B]:THR:CA[2_756]	2.12	0.08
1:M:157[B]:ILE:O	1:N:142[B]:ASP:CG[2_756]	2.12	0.08
1:M:162[B]:ASN:CB	1:N:91[B]:LYS:N[2_756]	2.12	0.08
1:N:40[B]:ARG:NH2	1:N:112[B]:LYS:O[2_756]	2.12	0.08
1:N:42[B]:GLY:CA	1:N:108[B]:GLU:OE2[2_756]	2.12	0.08
1:N:112[B]:LYS:CD	1:N:317[B]:ALA:O[2_756]	2.12	0.08
1:O:148[C]:LYS:CA	1:O:177[C]:LYS:CD[2_855]	2.12	0.08
1:O:149[C]:GLY:O	1:P:135[C]:GLY:C[2_855]	2.12	0.08
1:O:157[C]:ILE:CA	1:P:140[C]:ASP:CB[2_855]	2.12	0.08
1:O:165[C]:THR:CG2	1:P:107[C]:LYS:CA[2_855]	2.12	0.08
1:O:168[C]:ARG:NE	1:P:114[C]:GLY:N[2_855]	2.12	0.08
1:O:293[C]:ASP:CA	1:P:144[C]:ASP:OD2[2_855]	2.12	0.08
1:O:130[D]:GLN:O	1:P:137[D]:GLU:CD[2_855]	2.12	0.08
1:O:132[D]:ARG:O	1:P:136[D]:ALA:CA[2_855]	2.12	0.08
1:O:155[D]:ARG:NH2	1:P:125[D]:PRO:CD[2_855]	2.12	0.08
1:O:165[D]:THR:O	1:P:107[D]:LYS:CD[2_855]	2.12	0.08
1:O:195[D]:VAL:CG2	1:P:119[D]:ARG:CB[2_855]	2.12	0.08
1:P:39[D]:ASP:N	1:P:108[D]:GLU:N[2_855]	2.12	0.08
1:M:153[A]:LEU:C	1:N:139[A]:THR:N[2_756]	2.13	0.07
1:M:163[A]:ASN:C	1:N:122[A]:ASP:N[2_756]	2.13	0.07
1:M:165[A]:THR:CA	1:N:107[A]:LYS:CA[2_756]	2.13	0.07
1:N:39[A]:ASP:CB	1:N:109[A]:PHE:N[2_756]	2.13	0.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:149[B]:GLY:C	1:N:136[B]:ALA:CA[2_756]	2.13	0.07
1:M:150[B]:VAL:O	1:N:137[B]:GLU:CB[2_756]	2.13	0.07
1:M:154[B]:GLN:O	1:N:141[B]:ALA:O[2_756]	2.13	0.07
1:M:155[B]:ARG:CB	1:N:138[B]:TYR:CD2[2_756]	2.13	0.07
1:M:163[B]:ASN:N	1:N:121[B]:GLY:CA[2_756]	2.13	0.07
1:M:168[B]:ARG:NE	1:N:115[B]:LEU:N[2_756]	2.13	0.07
1:N:39[B]:ASP:C	1:N:108[B]:GLU:C[2_756]	2.13	0.07
1:N:40[B]:ARG:CD	1:N:109[B]:PHE:C[2_756]	2.13	0.07
1:O:131[C]:TRP:N	1:P:137[C]:GLU:OE1[2_855]	2.13	0.07
1:O:156[C]:VAL:N	1:P:140[C]:ASP:N[2_855]	2.13	0.07
1:O:158[C]:ASP:CB	1:P:138[C]:TYR:OH[2_855]	2.13	0.07
1:O:164[C]:PRO:C	1:P:119[C]:ARG:C[2_855]	2.13	0.07
1:O:165[C]:THR:CB	1:P:107[C]:LYS:C[2_855]	2.13	0.07
1:O:167[C]:ARG:O	1:P:114[C]:GLY:C[2_855]	2.13	0.07
1:O:169[C]:ILE:CB	1:P:118[C]:ARG:CG[2_855]	2.13	0.07
1:P:39[C]:ASP:OD1	1:P:108[C]:GLU:OE2[2_855]	2.13	0.07
1:P:41[C]:THR:CG2	1:P:112[C]:LYS:CG[2_855]	2.13	0.07
1:O:131[D]:TRP:CG	1:P:137[D]:GLU:OE2[2_855]	2.13	0.07
1:O:150[D]:VAL:O	1:P:136[D]:ALA:C[2_855]	2.13	0.07
1:O:153[D]:LEU:N	1:P:139[D]:THR:CA[2_855]	2.13	0.07
1:O:162[D]:ASN:C	1:P:121[D]:GLY:CA[2_855]	2.13	0.07
1:O:168[D]:ARG:O	1:P:118[D]:ARG:NH2[2_855]	2.13	0.07
1:O:168[D]:ARG:NH1	1:P:113[D]:VAL:CG1[2_855]	2.13	0.07
1:O:170[D]:ILE:CD1	1:P:117[D]:HIS:CD2[2_855]	2.13	0.07
1:O:193[D]:PHE:O	1:P:117[D]:HIS:C[2_855]	2.13	0.07
1:P:110[D]:LEU:O	2:P:700[D]:UMP:P[2_855]	2.13	0.07
1:M:157[A]:ILE:CG1	1:N:142[A]:ASP:CA[2_756]	2.14	0.06
1:M:165[A]:THR:N	1:N:120[A]:GLU:N[2_756]	2.14	0.06
1:M:168[A]:ARG:CD	1:N:115[A]:LEU:CB[2_756]	2.14	0.06
1:M:193[A]:PHE:CA	1:N:117[A]:HIS:O[2_756]	2.14	0.06
1:M:293[A]:ASP:OD2	1:N:145[A]:TYR:N[2_756]	2.14	0.06
1:N:41[A]:THR:CA	1:N:112[A]:LYS:NZ[2_756]	2.14	0.06
1:N:41[A]:THR:CG2	1:N:112[A]:LYS:CG[2_756]	2.14	0.06
1:M:150[B]:VAL:CG2	1:N:178[B]:ASP:OD2[2_756]	2.14	0.06
1:M:165[B]:THR:CB	1:N:107[B]:LYS:CG[2_756]	2.14	0.06
1:M:167[B]:ARG:CZ	1:N:111[B]:GLU:CA[2_756]	2.14	0.06
1:M:167[B]:ARG:NH2	1:N:111[B]:GLU:CB[2_756]	2.14	0.06
1:N:41[B]:THR:C	1:N:108[B]:GLU:OE2[2_756]	2.14	0.06
1:O:132[C]:ARG:C	1:P:137[C]:GLU:CA[2_855]	2.14	0.06
1:O:155[C]:ARG:CG	1:P:138[C]:TYR:CD2[2_855]	2.14	0.06
1:O:161[C]:LYS:O	1:P:89[C]:ASP:OD2[2_855]	2.14	0.06
1:O:162[C]:ASN:CA	1:P:121[C]:GLY:CA[2_855]	2.14	0.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:242[C]:THR:CG2	1:P:119[C]:ARG:NH2[2_855]	2.14	0.06
1:P:39[C]:ASP:CA	1:P:108[C]:GLU:N[2_855]	2.14	0.06
1:O:132[D]:ARG:CA	1:P:137[D]:GLU:CB[2_855]	2.14	0.06
1:O:160[D]:ILE:CB	1:P:119[D]:ARG:NE[2_855]	2.14	0.06
1:O:162[D]:ASN:CG	1:P:89[D]:ASP:CA[2_855]	2.14	0.06
1:O:164[D]:PRO:N	1:P:120[D]:GLU:N[2_855]	2.14	0.06
1:O:169[D]:ILE:CA	1:P:118[D]:ARG:CD[2_855]	2.14	0.06
1:F:201[A]:ASP:CG	1:P:273[A]:GLU:OE1[1_455]	2.15	0.05
1:M:132[A]:ARG:NH2	1:N:145[A]:TYR:CD1[2_756]	2.15	0.05
1:M:150[A]:VAL:CB	1:N:178[A]:ASP:OD2[2_756]	2.15	0.05
1:M:151[A]:ASP:CA	1:N:136[A]:ALA:C[2_756]	2.15	0.05
1:M:152[A]:GLN:C	1:N:138[A]:TYR:CB[2_756]	2.15	0.05
1:M:158[A]:ASP:N	1:N:141[A]:ALA:N[2_756]	2.15	0.05
1:M:163[A]:ASN:N	1:N:122[A]:ASP:N[2_756]	2.15	0.05
1:M:164[A]:PRO:C	1:N:119[A]:ARG:O[2_756]	2.15	0.05
1:M:167[A]:ARG:CA	1:N:115[A]:LEU:CA[2_756]	2.15	0.05
1:M:169[A]:ILE:CB	1:N:118[A]:ARG:CD[2_756]	2.15	0.05
1:M:293[A]:ASP:CB	1:N:144[A]:ASP:OD1[2_756]	2.15	0.05
1:M:149[B]:GLY:CA	1:N:136[B]:ALA:N[2_756]	2.15	0.05
1:M:150[B]:VAL:CG1	1:N:138[B]:TYR:CB[2_756]	2.15	0.05
1:M:156[B]:VAL:CA	1:N:140[B]:ASP:C[2_756]	2.15	0.05
1:M:159[B]:THR:CG2	1:N:122[B]:ASP:CA[2_756]	2.15	0.05
1:M:166[B]:ASP:OD2	1:N:110[B]:LEU:CD1[2_756]	2.15	0.05
1:M:167[B]:ARG:CA	1:N:116[B]:GLY:N[2_756]	2.15	0.05
1:N:42[B]:GLY:N	1:N:108[B]:GLU:CD[2_756]	2.15	0.05
1:N:111[B]:GLU:CA	2:N:600[B]:UMP:P[2_756]	2.15	0.05
1:N:111[B]:GLU:O	2:N:600[B]:UMP:OP1[2_756]	2.15	0.05
1:N:179[B]:LEU:CG	1:N:181[B]:LEU:CG[2_756]	2.15	0.05
1:O:159[C]:THR:N	1:P:122[C]:ASP:CB[2_855]	2.15	0.05
1:O:162[C]:ASN:OD1	1:P:89[C]:ASP:CB[2_855]	2.15	0.05
1:O:163[C]:ASN:C	1:P:120[C]:GLU:C[2_855]	2.15	0.05
1:O:166[C]:ASP:N	1:P:110[C]:LEU:CB[2_855]	2.15	0.05
1:O:167[C]:ARG:CZ	1:P:111[C]:GLU:O[2_855]	2.15	0.05
1:O:153[D]:LEU:N	1:P:138[D]:TYR:C[2_855]	2.15	0.05
1:O:153[D]:LEU:CB	1:P:139[D]:THR:CG2[2_855]	2.15	0.05
1:O:155[D]:ARG:CG	1:P:138[D]:TYR:CE1[2_855]	2.15	0.05
1:O:155[D]:ARG:CG	1:P:138[D]:TYR:CD2[2_855]	2.15	0.05
1:O:157[D]:ILE:CD1	1:P:142[D]:ASP:C[2_855]	2.15	0.05
1:P:39[D]:ASP:CG	1:P:108[D]:GLU:C[2_855]	2.15	0.05
1:P:111[D]:GLU:C	2:P:700[D]:UMP:O5'[2_855]	2.15	0.05
1:M:154[A]:GLN:CB	1:N:145[A]:TYR:CE1[2_756]	2.16	0.04
1:M:155[A]:ARG:N	1:N:138[A]:TYR:CZ[2_756]	2.16	0.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:163[A]:ASN:O	1:N:121[A]:GLY:N[2_756]	2.16	0.04
1:N:39[A]:ASP:N	1:N:108[A]:GLU:CA[2_756]	2.16	0.04
1:N:40[A]:ARG:CB	1:N:109[A]:PHE:CD2[2_756]	2.16	0.04
1:N:41[A]:THR:CB	1:N:112[A]:LYS:NZ[2_756]	2.16	0.04
1:N:111[A]:GLU:OE1	1:N:255[A]:ASP:OD1[2_756]	2.16	0.04
1:M:151[B]:ASP:O	1:N:145[B]:TYR:CE1[2_756]	2.16	0.04
1:M:154[B]:GLN:N	1:N:145[B]:TYR:OH[2_756]	2.16	0.04
1:M:155[B]:ARG:N	1:N:140[B]:ASP:C[2_756]	2.16	0.04
1:M:157[B]:ILE:C	1:N:142[B]:ASP:CG[2_756]	2.16	0.04
1:M:160[B]:ILE:N	1:N:119[B]:ARG:NH2[2_756]	2.16	0.04
1:M:165[B]:THR:OG1	1:N:107[B]:LYS:N[2_756]	2.16	0.04
1:M:170[B]:ILE:N	1:N:117[B]:HIS:CE1[2_756]	2.16	0.04
1:N:41[B]:THR:OG1	1:N:108[B]:GLU:OE2[2_756]	2.16	0.04
1:O:134[C]:PHE:CD1	1:P:177[C]:LYS:CE[2_855]	2.16	0.04
1:O:151[C]:ASP:OD1	1:P:145[C]:TYR:CE1[2_855]	2.16	0.04
1:O:155[C]:ARG:C	1:P:138[C]:TYR:CD2[2_855]	2.16	0.04
1:O:160[C]:ILE:CG2	1:P:119[C]:ARG:CD[2_855]	2.16	0.04
1:O:161[C]:LYS:CA	1:P:119[C]:ARG:NH1[2_855]	2.16	0.04
1:O:164[C]:PRO:CB	1:P:120[C]:GLU:CA[2_855]	2.16	0.04
1:O:166[C]:ASP:CB	1:P:110[C]:LEU:CG[2_855]	2.16	0.04
1:O:167[C]:ARG:NH2	1:P:111[C]:GLU:C[2_855]	2.16	0.04
1:P:37[C]:ARG:NH2	1:P:107[C]:LYS:CG[2_855]	2.16	0.04
1:P:39[C]:ASP:CA	1:P:108[C]:GLU:CG[2_855]	2.16	0.04
1:O:150[D]:VAL:O	1:P:137[D]:GLU:C[2_855]	2.16	0.04
1:O:152[D]:GLN:O	1:P:140[D]:ASP:N[2_855]	2.16	0.04
1:O:155[D]:ARG:CD	1:P:124[D]:GLY:CA[2_855]	2.16	0.04
1:O:162[D]:ASN:CA	1:P:89[D]:ASP:CG[2_855]	2.16	0.04
1:O:162[D]:ASN:CB	1:P:91[D]:LYS:N[2_855]	2.16	0.04
1:O:163[D]:ASN:CG	1:P:121[D]:GLY:N[2_855]	2.16	0.04
1:O:170[D]:ILE:N	1:P:117[D]:HIS:ND1[2_855]	2.16	0.04
1:M:147[A]:GLY:O	1:N:134[A]:PHE:C[2_756]	2.17	0.03
1:M:152[A]:GLN:CB	1:N:138[A]:TYR:C[2_756]	2.17	0.03
1:M:155[A]:ARG:CZ	1:N:124[A]:GLY:C[2_756]	2.17	0.03
1:M:157[A]:ILE:CD1	1:N:142[A]:ASP:CB[2_756]	2.17	0.03
1:M:162[A]:ASN:CB	1:N:89[A]:ASP:O[2_756]	2.17	0.03
1:M:164[A]:PRO:CB	1:N:120[A]:GLU:C[2_756]	2.17	0.03
1:M:169[A]:ILE:CG1	1:N:118[A]:ARG:CD[2_756]	2.17	0.03
1:M:146[B]:LYS:CG	1:N:147[B]:GLY:CA[2_756]	2.17	0.03
1:M:152[B]:GLN:O	1:N:139[B]:THR:CB[2_756]	2.17	0.03
1:M:163[B]:ASN:O	1:N:120[B]:GLU:O[2_756]	2.17	0.03
1:M:167[B]:ARG:CD	1:N:111[B]:GLU:OE1[2_756]	2.17	0.03
1:N:112[B]:LYS:CD	1:N:317[B]:ALA:C[2_756]	2.17	0.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:112[B]:LYS:CE	1:N:317[B]:ALA:CA[2_756]	2.17	0.03
1:O:132[C]:ARG:C	1:P:137[C]:GLU:N[2_855]	2.17	0.03
1:O:148[C]:LYS:C	1:P:135[C]:GLY:CA[2_855]	2.17	0.03
1:O:151[C]:ASP:CB	1:P:137[C]:GLU:O[2_855]	2.17	0.03
1:O:155[C]:ARG:CD	1:P:125[C]:PRO:CD[2_855]	2.17	0.03
1:O:158[C]:ASP:C	1:P:122[C]:ASP:OD1[2_855]	2.17	0.03
1:O:163[C]:ASN:CG	1:P:105[C]:GLY:C[2_855]	2.17	0.03
1:O:166[C]:ASP:C	1:P:115[C]:LEU:C[2_855]	2.17	0.03
1:O:167[C]:ARG:NH2	1:P:112[C]:LYS:CB[2_855]	2.17	0.03
1:P:39[C]:ASP:O	1:P:109[C]:PHE:N[2_855]	2.17	0.03
1:O:146[D]:LYS:CE	1:P:147[D]:GLY:CA[2_855]	2.17	0.03
1:O:149[D]:GLY:C	1:P:136[D]:ALA:N[2_855]	2.17	0.03
1:O:156[D]:VAL:C	1:P:140[D]:ASP:CG[2_855]	2.17	0.03
1:O:156[D]:VAL:CB	1:P:139[D]:THR:C[2_855]	2.17	0.03
1:O:162[D]:ASN:CG	1:P:89[D]:ASP:CG[2_855]	2.17	0.03
1:O:165[D]:THR:OG1	1:P:107[D]:LYS:CA[2_855]	2.17	0.03
1:O:167[D]:ARG:NH2	1:P:111[D]:GLU:C[2_855]	2.17	0.03
1:O:167[D]:ARG:NH2	1:P:112[D]:LYS:CA[2_855]	2.17	0.03
1:P:43[D]:THR:C	1:P:108[D]:GLU:OE1[2_855]	2.17	0.03
1:M:164[A]:PRO:O	1:N:119[A]:ARG:CA[2_756]	2.18	0.02
1:M:165[A]:THR:CG2	1:N:107[A]:LYS:CA[2_756]	2.18	0.02
1:M:195[A]:VAL:CB	1:N:119[A]:ARG:CB[2_756]	2.18	0.02
1:M:292[A]:ILE:CG2	1:N:144[A]:ASP:CB[2_756]	2.18	0.02
1:M:152[B]:GLN:C	1:N:138[B]:TYR:C[2_756]	2.18	0.02
1:M:155[B]:ARG:CB	1:N:138[B]:TYR:OH[2_756]	2.18	0.02
1:M:162[B]:ASN:OD1	1:N:92[B]:MET:N[2_756]	2.18	0.02
1:M:163[B]:ASN:CB	1:N:122[B]:ASP:N[2_756]	2.18	0.02
1:M:170[B]:ILE:CG1	1:N:117[B]:HIS:CD2[2_756]	2.18	0.02
1:N:39[B]:ASP:N	1:N:108[B]:GLU:N[2_756]	2.18	0.02
1:N:40[B]:ARG:N	1:N:109[B]:PHE:CA[2_756]	2.18	0.02
1:B:201[C]:ASP:O	1:O:95[C]:SER:CB[2_755]	2.18	0.02
1:O:131[C]:TRP:O	1:P:137[C]:GLU:OE2[2_855]	2.18	0.02
1:O:156[C]:VAL:N	1:P:138[C]:TYR:CE2[2_855]	2.18	0.02
1:O:157[C]:ILE:CB	1:P:140[C]:ASP:C[2_855]	2.18	0.02
1:O:163[C]:ASN:CA	1:P:120[C]:GLU:C[2_855]	2.18	0.02
1:O:165[C]:THR:CB	1:P:107[C]:LYS:N[2_855]	2.18	0.02
1:O:169[C]:ILE:CA	1:P:117[C]:HIS:CG[2_855]	2.18	0.02
1:O:169[C]:ILE:C	1:P:117[C]:HIS:CD2[2_855]	2.18	0.02
1:O:193[C]:PHE:C	1:P:117[C]:HIS:O[2_855]	2.18	0.02
1:P:39[C]:ASP:N	1:P:108[C]:GLU:N[2_855]	2.18	0.02
1:P:40[C]:ARG:NH2	1:P:112[C]:LYS:O[2_855]	2.18	0.02
1:O:151[D]:ASP:OD1	1:P:145[D]:TYR:CE1[2_855]	2.18	0.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:157[D]:ILE:O	1:P:119[D]:ARG:NH1[2_855]	2.18	0.02
1:O:157[D]:ILE:CB	1:P:142[D]:ASP:CB[2_855]	2.18	0.02
1:O:160[D]:ILE:C	1:P:119[D]:ARG:NH1[2_855]	2.18	0.02
1:O:168[D]:ARG:C	1:P:117[D]:HIS:CE1[2_855]	2.18	0.02
1:P:111[D]:GLU:CD	1:P:255[D]:ASP:OD1[2_855]	2.18	0.02
1:P:112[D]:LYS:O	2:P:700[D]:UMP:C4'[2_855]	2.18	0.02
1:P:113[D]:VAL:O	2:P:700[D]:UMP:OP2[2_855]	2.18	0.02
1:M:134[A]:PHE:CG	1:N:177[A]:LYS:NZ[2_756]	2.19	0.01
1:M:151[A]:ASP:CA	1:N:137[A]:GLU:C[2_756]	2.19	0.01
1:M:157[A]:ILE:CG2	1:N:142[A]:ASP:C[2_756]	2.19	0.01
1:M:166[A]:ASP:CA	1:N:110[A]:LEU:CD2[2_756]	2.19	0.01
1:M:170[A]:ILE:CD1	1:N:117[A]:HIS:NE2[2_756]	2.19	0.01
1:M:192[A]:GLN:CD	1:N:117[A]:HIS:CB[2_756]	2.19	0.01
1:N:37[A]:ARG:NE	1:N:107[A]:LYS:CG[2_756]	2.19	0.01
1:N:40[A]:ARG:CB	1:N:109[A]:PHE:O[2_756]	2.19	0.01
1:M:146[B]:LYS:CA	1:N:147[B]:GLY:O[2_756]	2.19	0.01
1:M:148[B]:LYS:C	1:N:135[B]:GLY:O[2_756]	2.19	0.01
1:M:150[B]:VAL:O	1:N:137[B]:GLU:O[2_756]	2.19	0.01
1:M:152[B]:GLN:N	1:N:137[B]:GLU:C[2_756]	2.19	0.01
1:M:164[B]:PRO:N	1:N:120[B]:GLU:CA[2_756]	2.19	0.01
1:M:166[B]:ASP:CG	1:N:110[B]:LEU:CD1[2_756]	2.19	0.01
1:M:167[B]:ARG:CA	1:N:115[B]:LEU:C[2_756]	2.19	0.01
1:M:168[B]:ARG:NE	1:N:115[B]:LEU:CG[2_756]	2.19	0.01
1:M:170[B]:ILE:CG1	1:N:117[B]:HIS:ND1[2_756]	2.19	0.01
1:M:170[B]:ILE:CD1	1:N:117[B]:HIS:CG[2_756]	2.19	0.01
1:N:40[B]:ARG:NE	1:N:113[B]:VAL:N[2_756]	2.19	0.01
1:N:115[B]:LEU:N	1:N:216[B]:ARG:NH2[2_756]	2.19	0.01
1:N:180[B]:PRO:CG	1:N:182[B]:MET:CE[2_756]	2.19	0.01
1:O:135[C]:GLY:CA	1:P:177[C]:LYS:NZ[2_855]	2.19	0.01
1:O:157[C]:ILE:O	1:P:141[C]:ALA:N[2_855]	2.19	0.01
1:O:163[C]:ASN:C	1:P:120[C]:GLU:CA[2_855]	2.19	0.01
1:O:165[C]:THR:CB	1:P:107[C]:LYS:CD[2_855]	2.19	0.01
1:O:166[C]:ASP:CB	1:P:110[C]:LEU:CB[2_855]	2.19	0.01
1:P:111[C]:GLU:CD	1:P:255[C]:ASP:OD1[2_855]	2.19	0.01
1:O:131[D]:TRP:CB	1:P:137[D]:GLU:CD[2_855]	2.19	0.01
1:O:155[D]:ARG:CG	1:P:138[D]:TYR:OH[2_855]	2.19	0.01
1:O:155[D]:ARG:CZ	1:P:126[D]:VAL:N[2_855]	2.19	0.01
1:O:157[D]:ILE:N	1:P:140[D]:ASP:O[2_855]	2.19	0.01
1:O:168[D]:ARG:CA	1:P:115[D]:LEU:CB[2_855]	2.19	0.01
1:P:40[D]:ARG:CG	1:P:109[D]:PHE:CE2[2_855]	2.19	0.01
1:M:131[A]:TRP:C	1:N:137[A]:GLU:OE1[2_756]	2.20	0.00
1:M:154[A]:GLN:C	1:N:138[A]:TYR:CE1[2_756]	2.20	0.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:155[A]:ARG:O	1:N:138[A]:TYR:CE2[2_756]	2.20	0.00
1:M:293[A]:ASP:OD1	1:N:144[A]:ASP:O[2_756]	2.20	0.00
1:N:39[A]:ASP:CA	1:N:108[A]:GLU:N[2_756]	2.20	0.00
1:M:152[B]:GLN:O	1:N:139[B]:THR:OG1[2_756]	2.20	0.00
1:M:160[B]:ILE:CG1	1:N:119[B]:ARG:NH2[2_756]	2.20	0.00
1:N:178[B]:ASP:O	1:N:180[B]:PRO:N[2_756]	2.20	0.00
1:O:131[C]:TRP:O	1:P:137[C]:GLU:CB[2_855]	2.20	0.00
1:O:151[C]:ASP:CA	1:P:136[C]:ALA:O[2_855]	2.20	0.00
1:O:159[C]:THR:CA	1:P:122[C]:ASP:C[2_855]	2.20	0.00
1:O:163[C]:ASN:OD1	1:P:106[C]:SER:N[2_855]	2.20	0.00
1:O:168[C]:ARG:CB	1:P:115[C]:LEU:CB[2_855]	2.20	0.00
1:P:41[C]:THR:CG2	1:P:112[C]:LYS:CE[2_855]	2.20	0.00
1:O:162[D]:ASN:ND2	1:P:89[D]:ASP:N[2_855]	2.20	0.00
1:O:164[D]:PRO:N	1:P:121[D]:GLY:N[2_855]	2.20	0.00
1:O:164[D]:PRO:CG	1:P:120[D]:GLU:O[2_855]	2.20	0.00

5.3 Torsion angles

5.3.1 Protein backbone

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1-A	303/317 (96%)	293 (97%)	7 (2%)	3 (1%)	22	14
1	1-B	303/317 (96%)	293 (97%)	9 (3%)	1 (0%)	50	48
1	1-C	303/317 (96%)	293 (97%)	8 (3%)	2 (1%)	30	22
1	1-D	303/317 (96%)	293 (97%)	8 (3%)	2 (1%)	30	22
1	1-E	303/317 (96%)	292 (96%)	8 (3%)	3 (1%)	22	14
1	1-F	303/317 (96%)	292 (96%)	9 (3%)	2 (1%)	30	22
1	1-G	303/317 (96%)	294 (97%)	8 (3%)	1 (0%)	50	48
1	1-H	303/317 (96%)	291 (96%)	9 (3%)	3 (1%)	22	14
1	1-I	295/317 (93%)	287 (97%)	7 (2%)	1 (0%)	50	48
1	1-J	295/317 (93%)	286 (97%)	8 (3%)	1 (0%)	50	48
1	1-K	295/317 (93%)	286 (97%)	8 (3%)	1 (0%)	50	48
1	1-L	295/317 (93%)	285 (97%)	9 (3%)	1 (0%)	50	48

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1-M	295/317 (93%)	286 (97%)	8 (3%)	1 (0%)	50	48
1	1-N	295/317 (93%)	286 (97%)	8 (3%)	1 (0%)	50	48
1	1-O	295/317 (93%)	286 (97%)	8 (3%)	1 (0%)	50	48
1	1-P	295/317 (93%)	286 (97%)	8 (3%)	1 (0%)	50	48
1	2-A	303/317 (96%)	293 (97%)	7 (2%)	3 (1%)	22	14
1	2-B	303/317 (96%)	293 (97%)	9 (3%)	1 (0%)	50	48
1	2-C	303/317 (96%)	293 (97%)	8 (3%)	2 (1%)	30	22
1	2-D	303/317 (96%)	293 (97%)	8 (3%)	2 (1%)	30	22
1	2-E	303/317 (96%)	292 (96%)	8 (3%)	3 (1%)	22	14
1	2-F	303/317 (96%)	292 (96%)	9 (3%)	2 (1%)	30	22
1	2-G	303/317 (96%)	294 (97%)	8 (3%)	1 (0%)	50	48
1	2-H	303/317 (96%)	291 (96%)	9 (3%)	3 (1%)	22	14
1	2-I	295/317 (93%)	286 (97%)	8 (3%)	1 (0%)	50	48
1	2-J	295/317 (93%)	286 (97%)	8 (3%)	1 (0%)	50	48
1	2-K	295/317 (93%)	287 (97%)	7 (2%)	1 (0%)	50	48
1	2-L	295/317 (93%)	285 (97%)	9 (3%)	1 (0%)	50	48
1	2-M	295/317 (93%)	286 (97%)	8 (3%)	1 (0%)	50	48
1	2-N	295/317 (93%)	284 (96%)	10 (3%)	1 (0%)	50	48
1	2-O	295/317 (93%)	285 (97%)	9 (3%)	1 (0%)	50	48
1	2-P	295/317 (93%)	286 (97%)	8 (3%)	1 (0%)	50	48
1	3-A	303/317 (96%)	293 (97%)	7 (2%)	3 (1%)	22	14
1	3-B	303/317 (96%)	293 (97%)	9 (3%)	1 (0%)	50	48
1	3-C	303/317 (96%)	293 (97%)	8 (3%)	2 (1%)	30	22
1	3-D	303/317 (96%)	293 (97%)	8 (3%)	2 (1%)	30	22
1	3-E	303/317 (96%)	292 (96%)	8 (3%)	3 (1%)	22	14
1	3-F	303/317 (96%)	292 (96%)	9 (3%)	2 (1%)	30	22
1	3-G	303/317 (96%)	294 (97%)	8 (3%)	1 (0%)	50	48
1	3-H	303/317 (96%)	291 (96%)	9 (3%)	3 (1%)	22	14
1	3-I	295/317 (93%)	286 (97%)	8 (3%)	1 (0%)	50	48
1	3-J	295/317 (93%)	286 (97%)	8 (3%)	1 (0%)	50	48
1	3-K	295/317 (93%)	287 (97%)	7 (2%)	1 (0%)	50	48

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	3-L	295/317 (93%)	285 (97%)	9 (3%)	1 (0%)	50	48
1	3-M	295/317 (93%)	286 (97%)	8 (3%)	1 (0%)	50	48
1	3-N	295/317 (93%)	283 (96%)	11 (4%)	1 (0%)	50	48
1	3-O	295/317 (93%)	286 (97%)	8 (3%)	1 (0%)	50	48
1	3-P	295/317 (93%)	285 (97%)	9 (3%)	1 (0%)	50	48
1	4-A	303/317 (96%)	293 (97%)	7 (2%)	3 (1%)	22	14
1	4-B	303/317 (96%)	293 (97%)	9 (3%)	1 (0%)	50	48
1	4-C	303/317 (96%)	293 (97%)	8 (3%)	2 (1%)	30	22
1	4-D	303/317 (96%)	293 (97%)	8 (3%)	2 (1%)	30	22
1	4-E	303/317 (96%)	292 (96%)	8 (3%)	3 (1%)	22	14
1	4-F	303/317 (96%)	292 (96%)	9 (3%)	2 (1%)	30	22
1	4-G	303/317 (96%)	294 (97%)	8 (3%)	1 (0%)	50	48
1	4-H	303/317 (96%)	291 (96%)	9 (3%)	3 (1%)	22	14
1	4-I	295/317 (93%)	286 (97%)	8 (3%)	1 (0%)	50	48
1	4-J	295/317 (93%)	286 (97%)	8 (3%)	1 (0%)	50	48
1	4-K	295/317 (93%)	287 (97%)	7 (2%)	1 (0%)	50	48
1	4-L	295/317 (93%)	285 (97%)	9 (3%)	1 (0%)	50	48
1	4-M	295/317 (93%)	286 (97%)	8 (3%)	1 (0%)	50	48
1	4-N	295/317 (93%)	283 (96%)	11 (4%)	1 (0%)	50	48
1	4-O	295/317 (93%)	285 (97%)	9 (3%)	1 (0%)	50	48
1	4-P	295/317 (93%)	286 (97%)	8 (3%)	1 (0%)	50	48
All	All	19136/20288 (94%)	18505 (97%)	531 (3%)	100 (0%)	38	32

All (100) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	1-A	127[A]	TYR
1	1-B	127[A]	TYR
1	1-C	127[A]	TYR
1	1-C	202[A]	SER
1	1-D	127[A]	TYR
1	1-D	202[A]	SER
1	1-E	127[A]	TYR
1	1-E	202[A]	SER
1	1-F	202[A]	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	1-G	127[A]	TYR
1	1-I	127[A]	TYR
1	1-J	127[A]	TYR
1	1-K	127[A]	TYR
1	1-L	127[A]	TYR
1	1-M	127[A]	TYR
1	1-N	127[A]	TYR
1	1-O	127[A]	TYR
1	1-P	127[A]	TYR
1	2-A	127[B]	TYR
1	2-B	127[B]	TYR
1	2-C	127[B]	TYR
1	2-C	202[B]	SER
1	2-D	127[B]	TYR
1	2-D	202[B]	SER
1	2-E	127[B]	TYR
1	2-E	202[B]	SER
1	2-F	202[B]	SER
1	2-G	127[B]	TYR
1	2-I	127[B]	TYR
1	2-J	127[B]	TYR
1	2-K	127[B]	TYR
1	2-L	127[B]	TYR
1	2-M	127[B]	TYR
1	2-N	127[B]	TYR
1	2-O	127[B]	TYR
1	2-P	127[B]	TYR
1	3-A	127[C]	TYR
1	3-B	127[C]	TYR
1	3-C	127[C]	TYR
1	3-C	202[C]	SER
1	3-D	127[C]	TYR
1	3-D	202[C]	SER
1	3-E	127[C]	TYR
1	3-E	202[C]	SER
1	3-F	202[C]	SER
1	3-G	127[C]	TYR
1	3-I	127[C]	TYR
1	3-J	127[C]	TYR
1	3-K	127[C]	TYR
1	3-L	127[C]	TYR
1	3-M	127[C]	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	3-N	127[C]	TYR
1	3-O	127[C]	TYR
1	3-P	127[C]	TYR
1	4-A	127[D]	TYR
1	4-B	127[D]	TYR
1	4-C	127[D]	TYR
1	4-C	202[D]	SER
1	4-D	127[D]	TYR
1	4-D	202[D]	SER
1	4-E	127[D]	TYR
1	4-E	202[D]	SER
1	4-F	202[D]	SER
1	4-G	127[D]	TYR
1	4-I	127[D]	TYR
1	4-J	127[D]	TYR
1	4-K	127[D]	TYR
1	4-L	127[D]	TYR
1	4-M	127[D]	TYR
1	4-N	127[D]	TYR
1	4-O	127[D]	TYR
1	4-P	127[D]	TYR
1	1-A	201[A]	ASP
1	1-A	202[A]	SER
1	1-F	127[A]	TYR
1	1-H	127[A]	TYR
1	1-H	201[A]	ASP
1	1-H	203[A]	PRO
1	2-A	201[B]	ASP
1	2-A	202[B]	SER
1	2-F	127[B]	TYR
1	2-H	127[B]	TYR
1	2-H	201[B]	ASP
1	2-H	203[B]	PRO
1	3-A	201[C]	ASP
1	3-A	202[C]	SER
1	3-F	127[C]	TYR
1	3-H	127[C]	TYR
1	3-H	201[C]	ASP
1	3-H	203[C]	PRO
1	4-A	201[D]	ASP
1	4-A	202[D]	SER
1	4-F	127[D]	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	4-H	127[D]	TYR
1	4-H	201[D]	ASP
1	4-H	203[D]	PRO
1	1-E	201[A]	ASP
1	2-E	201[B]	ASP
1	3-E	201[C]	ASP
1	4-E	201[D]	ASP

5.3.2 Protein sidechains

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1-A	262/274 (96%)	260 (99%)	2 (1%)	89	93
1	1-B	263/274 (96%)	262 (100%)	1 (0%)	95	97
1	1-C	262/274 (96%)	261 (100%)	1 (0%)	95	97
1	1-D	263/274 (96%)	261 (99%)	2 (1%)	89	93
1	1-E	263/274 (96%)	261 (99%)	2 (1%)	89	93
1	1-F	263/274 (96%)	260 (99%)	3 (1%)	84	88
1	1-G	263/274 (96%)	260 (99%)	3 (1%)	84	88
1	1-H	263/274 (96%)	261 (99%)	2 (1%)	89	93
1	1-I	258/274 (94%)	257 (100%)	1 (0%)	95	97
1	1-J	258/274 (94%)	257 (100%)	1 (0%)	95	97
1	1-K	258/274 (94%)	257 (100%)	1 (0%)	95	97
1	1-L	258/274 (94%)	257 (100%)	1 (0%)	95	97
1	1-M	258/274 (94%)	257 (100%)	1 (0%)	95	97
1	1-N	258/274 (94%)	257 (100%)	1 (0%)	95	97
1	1-O	258/274 (94%)	257 (100%)	1 (0%)	95	97
1	1-P	258/274 (94%)	257 (100%)	1 (0%)	95	97
All	All	4166/4384 (95%)	4142 (99%)	24 (1%)	92	95

All (24) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	1-A	220[A]	LEU
1	1-A	298[A]	GLU
1	1-B	298[A]	GLU
1	1-C	298[A]	GLU
1	1-D	28[A]	ARG
1	1-D	298[A]	GLU
1	1-E	220[A]	LEU
1	1-E	298[A]	GLU
1	1-F	14[A]	SER
1	1-F	132[A]	ARG
1	1-F	298[A]	GLU
1	1-G	107[A]	LYS
1	1-G	220[A]	LEU
1	1-G	298[A]	GLU
1	1-H	14[A]	SER
1	1-H	298[A]	GLU
1	1-I	298[A]	GLU
1	1-J	298[A]	GLU
1	1-K	298[A]	GLU
1	1-L	298[A]	GLU
1	1-M	298[A]	GLU
1	1-N	298[A]	GLU
1	1-O	298[A]	GLU
1	1-P	298[A]	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (94) such sidechains are listed below:

Mol	Chain	Res	Type
1	1-A	22[A]	GLN
1	1-A	32[A]	ASN
1	1-A	96[A]	GLN
1	1-A	154[A]	GLN
1	1-A	252[A]	GLN
1	1-A	269[A]	GLN
1	1-B	22[A]	GLN
1	1-B	32[A]	ASN
1	1-B	96[A]	GLN
1	1-B	154[A]	GLN
1	1-B	252[A]	GLN
1	1-B	269[A]	GLN
1	1-C	22[A]	GLN
1	1-C	32[A]	ASN
1	1-C	96[A]	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	1-C	252[A]	GLN
1	1-C	269[A]	GLN
1	1-D	22[A]	GLN
1	1-D	32[A]	ASN
1	1-D	96[A]	GLN
1	1-D	252[A]	GLN
1	1-D	269[A]	GLN
1	1-E	22[A]	GLN
1	1-E	32[A]	ASN
1	1-E	96[A]	GLN
1	1-E	154[A]	GLN
1	1-E	252[A]	GLN
1	1-E	269[A]	GLN
1	1-F	22[A]	GLN
1	1-F	32[A]	ASN
1	1-F	96[A]	GLN
1	1-F	154[A]	GLN
1	1-F	252[A]	GLN
1	1-F	269[A]	GLN
1	1-G	22[A]	GLN
1	1-G	32[A]	ASN
1	1-G	96[A]	GLN
1	1-G	154[A]	GLN
1	1-G	252[A]	GLN
1	1-G	269[A]	GLN
1	1-H	22[A]	GLN
1	1-H	32[A]	ASN
1	1-H	96[A]	GLN
1	1-H	154[A]	GLN
1	1-H	252[A]	GLN
1	1-H	269[A]	GLN
1	1-I	22[A]	GLN
1	1-I	32[A]	ASN
1	1-I	96[A]	GLN
1	1-I	154[A]	GLN
1	1-I	252[A]	GLN
1	1-I	269[A]	GLN
1	1-J	22[A]	GLN
1	1-J	32[A]	ASN
1	1-J	96[A]	GLN
1	1-J	154[A]	GLN
1	1-J	252[A]	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	1-J	269[A]	GLN
1	1-K	22[A]	GLN
1	1-K	32[A]	ASN
1	1-K	96[A]	GLN
1	1-K	154[A]	GLN
1	1-K	252[A]	GLN
1	1-K	269[A]	GLN
1	1-L	22[A]	GLN
1	1-L	32[A]	ASN
1	1-L	96[A]	GLN
1	1-L	154[A]	GLN
1	1-L	252[A]	GLN
1	1-L	269[A]	GLN
1	1-M	22[A]	GLN
1	1-M	32[A]	ASN
1	1-M	96[A]	GLN
1	1-M	154[A]	GLN
1	1-M	252[A]	GLN
1	1-M	269[A]	GLN
1	1-N	22[A]	GLN
1	1-N	32[A]	ASN
1	1-N	96[A]	GLN
1	1-N	154[A]	GLN
1	1-N	252[A]	GLN
1	1-N	269[A]	GLN
1	1-O	22[A]	GLN
1	1-O	32[A]	ASN
1	1-O	96[A]	GLN
1	1-O	154[A]	GLN
1	1-O	252[A]	GLN
1	1-O	269[A]	GLN
1	1-P	22[A]	GLN
1	1-P	32[A]	ASN
1	1-P	96[A]	GLN
1	1-P	154[A]	GLN
1	1-P	252[A]	GLN
1	1-P	269[A]	GLN

5.3.3 RNA

There are no RNA chains in this entry.

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

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

5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

96 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
3	CB3	1-A	2351[A]	-	37,37,37	2.54	13 (35%)	49,51,51	2.40	13 (26%)
2	UMP	1-A	350[A]	1	21,21,21	3.38	4 (19%)	26,31,31	2.62	3 (11%)
3	CB3	1-B	2401[A]	-	37,37,37	2.32	14 (37%)	49,51,51	2.21	16 (32%)
2	UMP	1-B	400[A]	1	21,21,21	3.38	5 (23%)	26,31,31	1.89	3 (11%)
3	CB3	1-C	2451[A]	-	37,37,37	2.24	12 (32%)	49,51,51	1.93	11 (22%)
2	UMP	1-C	450[A]	1	21,21,21	3.36	5 (23%)	26,31,31	2.76	6 (23%)
3	CB3	1-D	2501[A]	-	37,37,37	2.27	13 (35%)	49,51,51	1.85	14 (28%)
2	UMP	1-D	500[A]	1	21,21,21	3.06	7 (33%)	26,31,31	2.20	3 (11%)
3	CB3	1-E	2551[A]	-	37,37,37	2.51	18 (48%)	49,51,51	2.35	14 (28%)
2	UMP	1-E	550[A]	1	21,21,21	3.16	3 (14%)	26,31,31	2.62	7 (26%)
3	CB3	1-F	2601[A]	-	37,37,37	2.38	14 (37%)	49,51,51	2.04	15 (30%)
2	UMP	1-F	600[A]	1	21,21,21	2.97	3 (14%)	26,31,31	1.95	6 (23%)
3	CB3	1-G	2651[A]	-	37,37,37	2.40	13 (35%)	49,51,51	2.06	13 (26%)
2	UMP	1-G	650[A]	1	21,21,21	3.17	3 (14%)	26,31,31	2.52	6 (23%)
3	CB3	1-H	2701[A]	-	37,37,37	1.97	11 (29%)	49,51,51	2.42	17 (34%)
2	UMP	1-H	700[A]	1	21,21,21	3.77	8 (38%)	26,31,31	2.33	6 (23%)
2	UMP	1-I	350[A]	1	21,21,21	3.35	5 (23%)	26,31,31	2.32	5 (19%)
2	UMP	1-J	400[A]	1	21,21,21	3.35	5 (23%)	26,31,31	2.28	5 (19%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	UMP	1-K	450[A]	1	21,21,21	3.35	5 (23%)	26,31,31	2.31	5 (19%)
2	UMP	1-L	500[A]	1	21,21,21	3.37	5 (23%)	26,31,31	2.33	4 (15%)
2	UMP	1-M	550[A]	1	21,21,21	3.29	5 (23%)	26,31,31	2.25	4 (15%)
2	UMP	1-N	600[A]	1	21,21,21	3.33	5 (23%)	26,31,31	2.30	4 (15%)
2	UMP	1-O	650[A]	1	21,21,21	3.29	5 (23%)	26,31,31	2.35	4 (15%)
2	UMP	1-P	700[A]	1	21,21,21	3.38	5 (23%)	26,31,31	2.27	5 (19%)
3	CB3	2-A	2351[B]	-	37,37,37	2.54	13 (35%)	49,51,51	2.40	13 (26%)
2	UMP	2-A	350[B]	-	21,21,21	3.38	4 (19%)	26,31,31	2.62	3 (11%)
3	CB3	2-B	2401[B]	-	37,37,37	2.32	14 (37%)	49,51,51	2.21	16 (32%)
2	UMP	2-B	400[B]	-	21,21,21	3.38	5 (23%)	26,31,31	1.89	3 (11%)
3	CB3	2-C	2451[B]	-	37,37,37	2.24	12 (32%)	49,51,51	1.93	11 (22%)
2	UMP	2-C	450[B]	-	21,21,21	3.36	5 (23%)	26,31,31	2.76	6 (23%)
3	CB3	2-D	2501[B]	-	37,37,37	2.27	13 (35%)	49,51,51	1.85	14 (28%)
2	UMP	2-D	500[B]	-	21,21,21	3.06	7 (33%)	26,31,31	2.20	3 (11%)
3	CB3	2-E	2551[B]	-	37,37,37	2.51	18 (48%)	49,51,51	2.35	14 (28%)
2	UMP	2-E	550[B]	-	21,21,21	3.16	3 (14%)	26,31,31	2.62	7 (26%)
3	CB3	2-F	2601[B]	-	37,37,37	2.38	14 (37%)	49,51,51	2.04	15 (30%)
2	UMP	2-F	600[B]	-	21,21,21	2.97	3 (14%)	26,31,31	1.95	6 (23%)
3	CB3	2-G	2651[B]	-	37,37,37	2.40	13 (35%)	49,51,51	2.06	13 (26%)
2	UMP	2-G	650[B]	-	21,21,21	3.17	3 (14%)	26,31,31	2.52	6 (23%)
3	CB3	2-H	2701[B]	-	37,37,37	1.97	11 (29%)	49,51,51	2.42	17 (34%)
2	UMP	2-H	700[B]	-	21,21,21	3.77	8 (38%)	26,31,31	2.33	6 (23%)
2	UMP	2-I	350[B]	-	21,21,21	3.30	5 (23%)	26,31,31	2.27	5 (19%)
2	UMP	2-J	400[B]	-	21,21,21	3.34	5 (23%)	26,31,31	2.25	5 (19%)
2	UMP	2-K	450[B]	-	21,21,21	3.34	5 (23%)	26,31,31	2.30	5 (19%)
2	UMP	2-L	500[B]	-	21,21,21	3.34	5 (23%)	26,31,31	2.29	4 (15%)
2	UMP	2-M	550[B]	-	21,21,21	3.31	5 (23%)	26,31,31	2.26	4 (15%)
2	UMP	2-N	600[B]	-	21,21,21	3.34	5 (23%)	26,31,31	2.29	4 (15%)
2	UMP	2-O	650[B]	-	21,21,21	3.33	4 (19%)	26,31,31	2.35	5 (19%)
2	UMP	2-P	700[B]	-	21,21,21	3.34	5 (23%)	26,31,31	2.24	5 (19%)
3	CB3	3-A	2351[C]	-	37,37,37	2.54	13 (35%)	49,51,51	2.40	13 (26%)
2	UMP	3-A	350[C]	-	21,21,21	3.38	4 (19%)	26,31,31	2.62	3 (11%)
3	CB3	3-B	2401[C]	-	37,37,37	2.32	14 (37%)	49,51,51	2.21	16 (32%)
2	UMP	3-B	400[C]	-	21,21,21	3.38	5 (23%)	26,31,31	1.89	3 (11%)
3	CB3	3-C	2451[C]	-	37,37,37	2.24	12 (32%)	49,51,51	1.93	11 (22%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	UMP	3-C	450[C]	-	21,21,21	3.36	5 (23%)	26,31,31	2.76	6 (23%)
3	CB3	3-D	2501[C]	-	37,37,37	2.27	13 (35%)	49,51,51	1.85	14 (28%)
2	UMP	3-D	500[C]	-	21,21,21	3.06	7 (33%)	26,31,31	2.20	3 (11%)
3	CB3	3-E	2551[C]	-	37,37,37	2.51	18 (48%)	49,51,51	2.35	14 (28%)
2	UMP	3-E	550[C]	-	21,21,21	3.16	3 (14%)	26,31,31	2.62	7 (26%)
3	CB3	3-F	2601[C]	-	37,37,37	2.38	14 (37%)	49,51,51	2.04	15 (30%)
2	UMP	3-F	600[C]	-	21,21,21	2.97	3 (14%)	26,31,31	1.95	6 (23%)
3	CB3	3-G	2651[C]	-	37,37,37	2.40	13 (35%)	49,51,51	2.06	13 (26%)
2	UMP	3-G	650[C]	-	21,21,21	3.17	3 (14%)	26,31,31	2.52	6 (23%)
3	CB3	3-H	2701[C]	-	37,37,37	1.97	11 (29%)	49,51,51	2.42	17 (34%)
2	UMP	3-H	700[C]	-	21,21,21	3.77	8 (38%)	26,31,31	2.33	6 (23%)
2	UMP	3-I	350[C]	-	21,21,21	3.34	5 (23%)	26,31,31	2.29	5 (19%)
2	UMP	3-J	400[C]	-	21,21,21	3.35	5 (23%)	26,31,31	2.26	5 (19%)
2	UMP	3-K	450[C]	-	21,21,21	3.36	5 (23%)	26,31,31	2.29	5 (19%)
2	UMP	3-L	500[C]	-	21,21,21	3.35	5 (23%)	26,31,31	2.30	4 (15%)
2	UMP	3-M	550[C]	-	21,21,21	3.31	5 (23%)	26,31,31	2.29	4 (15%)
2	UMP	3-N	600[C]	-	21,21,21	3.35	5 (23%)	26,31,31	2.32	4 (15%)
2	UMP	3-O	650[C]	-	21,21,21	3.32	5 (23%)	26,31,31	2.35	4 (15%)
2	UMP	3-P	700[C]	-	21,21,21	3.36	5 (23%)	26,31,31	2.25	5 (19%)
3	CB3	4-A	2351[D]	-	37,37,37	2.54	13 (35%)	49,51,51	2.40	13 (26%)
2	UMP	4-A	350[D]	-	21,21,21	3.38	4 (19%)	26,31,31	2.62	3 (11%)
3	CB3	4-B	2401[D]	-	37,37,37	2.32	14 (37%)	49,51,51	2.21	16 (32%)
2	UMP	4-B	400[D]	-	21,21,21	3.38	5 (23%)	26,31,31	1.89	3 (11%)
3	CB3	4-C	2451[D]	-	37,37,37	2.24	12 (32%)	49,51,51	1.93	11 (22%)
2	UMP	4-C	450[D]	-	21,21,21	3.36	5 (23%)	26,31,31	2.76	6 (23%)
3	CB3	4-D	2501[D]	-	37,37,37	2.27	13 (35%)	49,51,51	1.85	14 (28%)
2	UMP	4-D	500[D]	-	21,21,21	3.06	7 (33%)	26,31,31	2.20	3 (11%)
3	CB3	4-E	2551[D]	-	37,37,37	2.51	18 (48%)	49,51,51	2.35	14 (28%)
2	UMP	4-E	550[D]	-	21,21,21	3.16	3 (14%)	26,31,31	2.62	7 (26%)
3	CB3	4-F	2601[D]	-	37,37,37	2.38	14 (37%)	49,51,51	2.04	15 (30%)
2	UMP	4-F	600[D]	-	21,21,21	2.97	3 (14%)	26,31,31	1.95	6 (23%)
3	CB3	4-G	2651[D]	-	37,37,37	2.40	13 (35%)	49,51,51	2.06	13 (26%)
2	UMP	4-G	650[D]	-	21,21,21	3.17	3 (14%)	26,31,31	2.52	6 (23%)
3	CB3	4-H	2701[D]	-	37,37,37	1.97	11 (29%)	49,51,51	2.42	17 (34%)
2	UMP	4-H	700[D]	-	21,21,21	3.77	8 (38%)	26,31,31	2.33	6 (23%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	UMP	4-I	350[D]	-	21,21,21	3.33	5 (23%)	26,31,31	2.30	5 (19%)
2	UMP	4-J	400[D]	-	21,21,21	3.35	5 (23%)	26,31,31	2.22	5 (19%)
2	UMP	4-K	450[D]	-	21,21,21	3.36	5 (23%)	26,31,31	2.30	4 (15%)
2	UMP	4-L	500[D]	-	21,21,21	3.35	5 (23%)	26,31,31	2.30	4 (15%)
2	UMP	4-M	550[D]	-	21,21,21	3.28	5 (23%)	26,31,31	2.26	4 (15%)
2	UMP	4-N	600[D]	-	21,21,21	3.34	5 (23%)	26,31,31	2.30	4 (15%)
2	UMP	4-O	650[D]	-	21,21,21	3.33	5 (23%)	26,31,31	2.28	6 (23%)
2	UMP	4-P	700[D]	-	21,21,21	3.36	5 (23%)	26,31,31	2.25	5 (19%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	CB3	1-A	2351[A]	-	-	0/27/28/28	0/1/3/3
2	UMP	1-A	350[A]	1	-	0/7/22/22	0/2/2/2
3	CB3	1-B	2401[A]	-	-	0/27/28/28	0/1/3/3
2	UMP	1-B	400[A]	1	-	0/7/22/22	0/2/2/2
3	CB3	1-C	2451[A]	-	-	0/27/28/28	0/1/3/3
2	UMP	1-C	450[A]	1	-	0/7/22/22	0/2/2/2
3	CB3	1-D	2501[A]	-	-	0/27/28/28	0/1/3/3
2	UMP	1-D	500[A]	1	-	0/7/22/22	0/2/2/2
3	CB3	1-E	2551[A]	-	-	0/27/28/28	0/1/3/3
2	UMP	1-E	550[A]	1	-	0/7/22/22	0/2/2/2
3	CB3	1-F	2601[A]	-	-	0/27/28/28	0/1/3/3
2	UMP	1-F	600[A]	1	-	0/7/22/22	0/2/2/2
3	CB3	1-G	2651[A]	-	-	0/27/28/28	0/1/3/3
2	UMP	1-G	650[A]	1	-	0/7/22/22	0/2/2/2
3	CB3	1-H	2701[A]	-	-	0/27/28/28	0/1/3/3
2	UMP	1-H	700[A]	1	-	0/7/22/22	0/2/2/2
2	UMP	1-I	350[A]	1	-	0/7/22/22	0/2/2/2
2	UMP	1-J	400[A]	1	-	0/7/22/22	0/2/2/2
2	UMP	1-K	450[A]	1	-	0/7/22/22	0/2/2/2
2	UMP	1-L	500[A]	1	-	0/7/22/22	0/2/2/2
2	UMP	1-M	550[A]	1	-	0/7/22/22	0/2/2/2
2	UMP	1-N	600[A]	1	-	0/7/22/22	0/2/2/2
2	UMP	1-O	650[A]	1	-	0/7/22/22	0/2/2/2
2	UMP	1-P	700[A]	1	-	0/7/22/22	0/2/2/2
3	CB3	2-A	2351[B]	-	-	0/27/28/28	0/1/3/3
2	UMP	2-A	350[B]	-	-	0/7/22/22	0/2/2/2

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	CB3	2-B	2401[B]	-	-	0/27/28/28	0/1/3/3
2	UMP	2-B	400[B]	-	-	0/7/22/22	0/2/2/2
3	CB3	2-C	2451[B]	-	-	0/27/28/28	0/1/3/3
2	UMP	2-C	450[B]	-	-	0/7/22/22	0/2/2/2
3	CB3	2-D	2501[B]	-	-	0/27/28/28	0/1/3/3
2	UMP	2-D	500[B]	-	-	0/7/22/22	0/2/2/2
3	CB3	2-E	2551[B]	-	-	0/27/28/28	0/1/3/3
2	UMP	2-E	550[B]	-	-	0/7/22/22	0/2/2/2
3	CB3	2-F	2601[B]	-	-	0/27/28/28	0/1/3/3
2	UMP	2-F	600[B]	-	-	0/7/22/22	0/2/2/2
3	CB3	2-G	2651[B]	-	-	0/27/28/28	0/1/3/3
2	UMP	2-G	650[B]	-	-	0/7/22/22	0/2/2/2
3	CB3	2-H	2701[B]	-	-	0/27/28/28	0/1/3/3
2	UMP	2-H	700[B]	-	-	0/7/22/22	0/2/2/2
2	UMP	2-I	350[B]	-	-	0/7/22/22	0/2/2/2
2	UMP	2-J	400[B]	-	-	0/7/22/22	0/2/2/2
2	UMP	2-K	450[B]	-	-	0/7/22/22	0/2/2/2
2	UMP	2-L	500[B]	-	-	0/7/22/22	0/2/2/2
2	UMP	2-M	550[B]	-	-	0/7/22/22	0/2/2/2
2	UMP	2-N	600[B]	-	-	0/7/22/22	0/2/2/2
2	UMP	2-O	650[B]	-	-	0/7/22/22	0/2/2/2
2	UMP	2-P	700[B]	-	-	0/7/22/22	0/2/2/2
3	CB3	3-A	2351[C]	-	-	0/27/28/28	0/1/3/3
2	UMP	3-A	350[C]	-	-	0/7/22/22	0/2/2/2
3	CB3	3-B	2401[C]	-	-	0/27/28/28	0/1/3/3
2	UMP	3-B	400[C]	-	-	0/7/22/22	0/2/2/2
3	CB3	3-C	2451[C]	-	-	0/27/28/28	0/1/3/3
2	UMP	3-C	450[C]	-	-	0/7/22/22	0/2/2/2
3	CB3	3-D	2501[C]	-	-	0/27/28/28	0/1/3/3
2	UMP	3-D	500[C]	-	-	0/7/22/22	0/2/2/2
3	CB3	3-E	2551[C]	-	-	0/27/28/28	0/1/3/3
2	UMP	3-E	550[C]	-	-	0/7/22/22	0/2/2/2
3	CB3	3-F	2601[C]	-	-	0/27/28/28	0/1/3/3
2	UMP	3-F	600[C]	-	-	0/7/22/22	0/2/2/2
3	CB3	3-G	2651[C]	-	-	0/27/28/28	0/1/3/3
2	UMP	3-G	650[C]	-	-	0/7/22/22	0/2/2/2
3	CB3	3-H	2701[C]	-	-	0/27/28/28	0/1/3/3
2	UMP	3-H	700[C]	-	-	0/7/22/22	0/2/2/2
2	UMP	3-I	350[C]	-	-	0/7/22/22	0/2/2/2
2	UMP	3-J	400[C]	-	-	0/7/22/22	0/2/2/2
2	UMP	3-K	450[C]	-	-	0/7/22/22	0/2/2/2
2	UMP	3-L	500[C]	-	-	0/7/22/22	0/2/2/2

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	UMP	3-M	550[C]	-	-	0/7/22/22	0/2/2/2
2	UMP	3-N	600[C]	-	-	0/7/22/22	0/2/2/2
2	UMP	3-O	650[C]	-	-	0/7/22/22	0/2/2/2
2	UMP	3-P	700[C]	-	-	0/7/22/22	0/2/2/2
3	CB3	4-A	2351[D]	-	-	0/27/28/28	0/1/3/3
2	UMP	4-A	350[D]	-	-	0/7/22/22	0/2/2/2
3	CB3	4-B	2401[D]	-	-	0/27/28/28	0/1/3/3
2	UMP	4-B	400[D]	-	-	0/7/22/22	0/2/2/2
3	CB3	4-C	2451[D]	-	-	0/27/28/28	0/1/3/3
2	UMP	4-C	450[D]	-	-	0/7/22/22	0/2/2/2
3	CB3	4-D	2501[D]	-	-	0/27/28/28	0/1/3/3
2	UMP	4-D	500[D]	-	-	0/7/22/22	0/2/2/2
3	CB3	4-E	2551[D]	-	-	0/27/28/28	0/1/3/3
2	UMP	4-E	550[D]	-	-	0/7/22/22	0/2/2/2
3	CB3	4-F	2601[D]	-	-	0/27/28/28	0/1/3/3
2	UMP	4-F	600[D]	-	-	0/7/22/22	0/2/2/2
3	CB3	4-G	2651[D]	-	-	0/27/28/28	0/1/3/3
2	UMP	4-G	650[D]	-	-	0/7/22/22	0/2/2/2
3	CB3	4-H	2701[D]	-	-	0/27/28/28	0/1/3/3
2	UMP	4-H	700[D]	-	-	0/7/22/22	0/2/2/2
2	UMP	4-I	350[D]	-	-	0/7/22/22	0/2/2/2
2	UMP	4-J	400[D]	-	-	0/7/22/22	0/2/2/2
2	UMP	4-K	450[D]	-	-	0/7/22/22	0/2/2/2
2	UMP	4-L	500[D]	-	-	0/7/22/22	0/2/2/2
2	UMP	4-M	550[D]	-	-	0/7/22/22	0/2/2/2
2	UMP	4-N	600[D]	-	-	0/7/22/22	0/2/2/2
2	UMP	4-O	650[D]	-	-	0/7/22/22	0/2/2/2
2	UMP	4-P	700[D]	-	-	0/7/22/22	0/2/2/2

All (743) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	1-L	500[A]	UMP	C6-C5	11.28	1.54	1.36
2	1-P	700[A]	UMP	C6-C5	11.27	1.54	1.36
2	1-I	350[A]	UMP	C6-C5	11.27	1.54	1.36
2	4-K	450[D]	UMP	C6-C5	11.27	1.54	1.36
2	3-J	400[C]	UMP	C6-C5	11.27	1.54	1.36
2	1-J	400[A]	UMP	C6-C5	11.25	1.54	1.36
2	4-P	700[D]	UMP	C6-C5	11.25	1.54	1.36
2	3-K	450[C]	UMP	C6-C5	11.25	1.54	1.36
2	2-J	400[B]	UMP	C6-C5	11.24	1.54	1.36
2	1-K	450[A]	UMP	C6-C5	11.23	1.54	1.36

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	3-I	350[C]	UMP	C6-C5	11.23	1.54	1.36
2	4-J	400[D]	UMP	C6-C5	11.22	1.54	1.36
2	2-K	450[B]	UMP	C6-C5	11.22	1.54	1.36
2	4-I	350[D]	UMP	C6-C5	11.20	1.54	1.36
2	3-P	700[C]	UMP	C6-C5	11.19	1.54	1.36
2	2-P	700[B]	UMP	C6-C5	11.18	1.54	1.36
2	2-I	350[B]	UMP	C6-C5	11.18	1.54	1.36
2	4-B	400[D]	UMP	C6-C5	11.17	1.54	1.36
2	1-B	400[A]	UMP	C6-C5	11.17	1.54	1.36
2	2-B	400[B]	UMP	C6-C5	11.17	1.54	1.36
2	3-B	400[C]	UMP	C6-C5	11.17	1.54	1.36
2	3-O	650[C]	UMP	C6-C5	11.17	1.54	1.36
2	2-M	550[B]	UMP	C6-C5	11.16	1.54	1.36
2	4-L	500[D]	UMP	C6-C5	11.14	1.54	1.36
2	3-L	500[C]	UMP	C6-C5	11.14	1.54	1.36
2	1-O	650[A]	UMP	C6-C5	11.13	1.54	1.36
2	2-O	650[B]	UMP	C6-C5	11.13	1.54	1.36
2	3-M	550[C]	UMP	C6-C5	11.12	1.54	1.36
2	1-M	550[A]	UMP	C6-C5	11.11	1.54	1.36
2	3-N	600[C]	UMP	C6-C5	11.10	1.54	1.36
2	4-M	550[D]	UMP	C6-C5	11.09	1.54	1.36
2	2-L	500[B]	UMP	C6-C5	11.05	1.54	1.36
2	2-N	600[B]	UMP	C6-C5	11.05	1.54	1.36
2	1-N	600[A]	UMP	C6-C5	11.04	1.54	1.36
2	4-O	650[D]	UMP	C6-C5	11.03	1.54	1.36
2	4-N	600[D]	UMP	C6-C5	10.98	1.53	1.36
2	4-C	450[D]	UMP	C6-C5	10.94	1.53	1.36
2	2-C	450[B]	UMP	C6-C5	10.94	1.53	1.36
2	1-C	450[A]	UMP	C6-C5	10.94	1.53	1.36
2	3-C	450[C]	UMP	C6-C5	10.94	1.53	1.36
2	4-E	550[D]	UMP	C6-C5	10.89	1.53	1.36
2	2-E	550[B]	UMP	C6-C5	10.89	1.53	1.36
2	1-E	550[A]	UMP	C6-C5	10.89	1.53	1.36
2	3-E	550[C]	UMP	C6-C5	10.89	1.53	1.36
2	2-A	350[B]	UMP	C6-C5	10.87	1.53	1.36
2	4-A	350[D]	UMP	C6-C5	10.87	1.53	1.36
2	3-A	350[C]	UMP	C6-C5	10.87	1.53	1.36
2	1-A	350[A]	UMP	C6-C5	10.87	1.53	1.36
2	3-H	700[C]	UMP	C6-C5	10.71	1.53	1.36
2	4-H	700[D]	UMP	C6-C5	10.71	1.53	1.36
2	1-H	700[A]	UMP	C6-C5	10.71	1.53	1.36
2	2-H	700[B]	UMP	C6-C5	10.71	1.53	1.36

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2-G	650[B]	UMP	C6-C5	10.60	1.53	1.36
2	1-G	650[A]	UMP	C6-C5	10.60	1.53	1.36
2	3-G	650[C]	UMP	C6-C5	10.60	1.53	1.36
2	4-G	650[D]	UMP	C6-C5	10.60	1.53	1.36
2	3-D	500[C]	UMP	C6-C5	10.15	1.52	1.36
2	2-D	500[B]	UMP	C6-C5	10.15	1.52	1.36
2	4-D	500[D]	UMP	C6-C5	10.15	1.52	1.36
2	1-D	500[A]	UMP	C6-C5	10.15	1.52	1.36
2	2-F	600[B]	UMP	C6-C5	9.66	1.51	1.36
2	3-F	600[C]	UMP	C6-C5	9.66	1.51	1.36
2	1-F	600[A]	UMP	C6-C5	9.66	1.51	1.36
2	4-F	600[D]	UMP	C6-C5	9.66	1.51	1.36
2	3-H	700[C]	UMP	C6-N1	9.08	1.50	1.35
2	4-H	700[D]	UMP	C6-N1	9.08	1.50	1.35
2	1-H	700[A]	UMP	C6-N1	9.08	1.50	1.35
2	2-H	700[B]	UMP	C6-N1	9.08	1.50	1.35
2	2-A	350[B]	UMP	C6-N1	8.60	1.49	1.35
2	4-A	350[D]	UMP	C6-N1	8.60	1.49	1.35
2	3-A	350[C]	UMP	C6-N1	8.60	1.49	1.35
2	1-A	350[A]	UMP	C6-N1	8.60	1.49	1.35
2	3-N	600[C]	UMP	C6-N1	7.93	1.48	1.35
2	4-C	450[D]	UMP	C6-N1	7.92	1.48	1.35
2	2-C	450[B]	UMP	C6-N1	7.92	1.48	1.35
2	1-C	450[A]	UMP	C6-N1	7.92	1.48	1.35
2	3-C	450[C]	UMP	C6-N1	7.92	1.48	1.35
2	4-O	650[D]	UMP	C6-N1	7.91	1.48	1.35
2	4-N	600[D]	UMP	C6-N1	7.89	1.48	1.35
2	1-N	600[A]	UMP	C6-N1	7.81	1.48	1.35
2	3-P	700[C]	UMP	C6-N1	7.80	1.48	1.35
2	2-L	500[B]	UMP	C6-N1	7.79	1.48	1.35
2	2-N	600[B]	UMP	C6-N1	7.79	1.48	1.35
2	4-L	500[D]	UMP	C6-N1	7.78	1.48	1.35
2	3-K	450[C]	UMP	C6-N1	7.76	1.48	1.35
2	1-P	700[A]	UMP	C6-N1	7.74	1.48	1.35
2	1-I	350[A]	UMP	C6-N1	7.73	1.48	1.35
2	4-B	400[D]	UMP	C6-N1	7.72	1.48	1.35
2	1-B	400[A]	UMP	C6-N1	7.72	1.48	1.35
2	2-B	400[B]	UMP	C6-N1	7.72	1.48	1.35
2	3-B	400[C]	UMP	C6-N1	7.72	1.48	1.35
2	4-P	700[D]	UMP	C6-N1	7.72	1.48	1.35
2	3-L	500[C]	UMP	C6-N1	7.72	1.48	1.35
2	2-O	650[B]	UMP	C6-N1	7.70	1.48	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2-G	650[B]	UMP	C6-N1	7.69	1.48	1.35
2	1-G	650[A]	UMP	C6-N1	7.69	1.48	1.35
2	3-G	650[C]	UMP	C6-N1	7.69	1.48	1.35
2	4-G	650[D]	UMP	C6-N1	7.69	1.48	1.35
2	1-L	500[A]	UMP	C6-N1	7.68	1.48	1.35
2	2-F	600[B]	UMP	C6-N1	7.60	1.48	1.35
2	3-F	600[C]	UMP	C6-N1	7.60	1.48	1.35
2	1-F	600[A]	UMP	C6-N1	7.60	1.48	1.35
2	4-F	600[D]	UMP	C6-N1	7.60	1.48	1.35
2	3-I	350[C]	UMP	C6-N1	7.60	1.48	1.35
2	4-K	450[D]	UMP	C6-N1	7.60	1.48	1.35
2	1-O	650[A]	UMP	C6-N1	7.57	1.48	1.35
2	1-K	450[A]	UMP	C6-N1	7.56	1.48	1.35
2	1-J	400[A]	UMP	C6-N1	7.54	1.48	1.35
2	4-J	400[D]	UMP	C6-N1	7.54	1.48	1.35
2	2-K	450[B]	UMP	C6-N1	7.53	1.48	1.35
2	3-J	400[C]	UMP	C6-N1	7.53	1.48	1.35
2	2-J	400[B]	UMP	C6-N1	7.50	1.48	1.35
2	4-I	350[D]	UMP	C6-N1	7.49	1.48	1.35
2	2-P	700[B]	UMP	C6-N1	7.45	1.47	1.35
2	3-O	650[C]	UMP	C6-N1	7.39	1.47	1.35
2	2-M	550[B]	UMP	C6-N1	7.31	1.47	1.35
2	3-M	550[C]	UMP	C6-N1	7.30	1.47	1.35
2	2-I	350[B]	UMP	C6-N1	7.29	1.47	1.35
2	1-M	550[A]	UMP	C6-N1	7.19	1.47	1.35
2	4-M	550[D]	UMP	C6-N1	7.14	1.47	1.35
2	4-E	550[D]	UMP	C6-N1	7.00	1.47	1.35
2	2-E	550[B]	UMP	C6-N1	7.00	1.47	1.35
2	1-E	550[A]	UMP	C6-N1	7.00	1.47	1.35
2	3-E	550[C]	UMP	C6-N1	7.00	1.47	1.35
3	1-A	2351[A]	CB3	CP1-N10	6.90	1.53	1.46
3	2-A	2351[B]	CB3	CP1-N10	6.90	1.53	1.46
3	3-A	2351[C]	CB3	CP1-N10	6.90	1.53	1.46
3	4-A	2351[D]	CB3	CP1-N10	6.90	1.53	1.46
3	2-E	2551[B]	CB3	O4-C4	6.84	1.38	1.24
3	1-E	2551[A]	CB3	O4-C4	6.84	1.38	1.24
3	4-E	2551[D]	CB3	O4-C4	6.84	1.38	1.24
3	3-E	2551[C]	CB3	O4-C4	6.84	1.38	1.24
2	3-D	500[C]	UMP	C6-N1	6.41	1.46	1.35
2	2-D	500[B]	UMP	C6-N1	6.41	1.46	1.35
2	4-D	500[D]	UMP	C6-N1	6.41	1.46	1.35
2	1-D	500[A]	UMP	C6-N1	6.41	1.46	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-C	2451[B]	CB3	O4-C4	6.29	1.36	1.24
3	3-C	2451[C]	CB3	O4-C4	6.29	1.36	1.24
3	1-C	2451[A]	CB3	O4-C4	6.29	1.36	1.24
3	4-C	2451[D]	CB3	O4-C4	6.29	1.36	1.24
3	2-E	2551[B]	CB3	C9-N10	6.08	1.54	1.46
3	1-E	2551[A]	CB3	C9-N10	6.08	1.54	1.46
3	4-E	2551[D]	CB3	C9-N10	6.08	1.54	1.46
3	3-E	2551[C]	CB3	C9-N10	6.08	1.54	1.46
3	1-A	2351[A]	CB3	O4-C4	6.03	1.36	1.24
3	2-A	2351[B]	CB3	O4-C4	6.03	1.36	1.24
3	3-A	2351[C]	CB3	O4-C4	6.03	1.36	1.24
3	4-A	2351[D]	CB3	O4-C4	6.03	1.36	1.24
3	3-G	2651[C]	CB3	O4-C4	5.98	1.36	1.24
3	4-G	2651[D]	CB3	O4-C4	5.98	1.36	1.24
3	1-G	2651[A]	CB3	O4-C4	5.98	1.36	1.24
3	2-G	2651[B]	CB3	O4-C4	5.98	1.36	1.24
3	1-F	2601[A]	CB3	CP1-N10	5.91	1.52	1.46
3	3-F	2601[C]	CB3	CP1-N10	5.91	1.52	1.46
3	4-F	2601[D]	CB3	CP1-N10	5.91	1.52	1.46
3	2-F	2601[B]	CB3	CP1-N10	5.91	1.52	1.46
3	2-B	2401[B]	CB3	C9-N10	5.66	1.53	1.46
3	3-B	2401[C]	CB3	C9-N10	5.66	1.53	1.46
3	1-B	2401[A]	CB3	C9-N10	5.66	1.53	1.46
3	4-B	2401[D]	CB3	C9-N10	5.66	1.53	1.46
3	2-B	2401[B]	CB3	O4-C4	5.59	1.35	1.24
3	3-B	2401[C]	CB3	O4-C4	5.59	1.35	1.24
3	1-B	2401[A]	CB3	O4-C4	5.59	1.35	1.24
3	4-B	2401[D]	CB3	O4-C4	5.59	1.35	1.24
3	2-C	2451[B]	CB3	C5-C6	5.23	1.48	1.37
2	3-H	700[C]	UMP	C5-C4	5.23	1.54	1.40
3	3-C	2451[C]	CB3	C5-C6	5.23	1.48	1.37
2	4-H	700[D]	UMP	C5-C4	5.23	1.54	1.40
2	1-H	700[A]	UMP	C5-C4	5.23	1.54	1.40
3	1-C	2451[A]	CB3	C5-C6	5.23	1.48	1.37
3	4-C	2451[D]	CB3	C5-C6	5.23	1.48	1.37
2	2-H	700[B]	UMP	C5-C4	5.23	1.54	1.40
2	2-A	350[B]	UMP	C5-C4	4.95	1.53	1.40
2	4-A	350[D]	UMP	C5-C4	4.95	1.53	1.40
2	3-A	350[C]	UMP	C5-C4	4.95	1.53	1.40
2	1-A	350[A]	UMP	C5-C4	4.95	1.53	1.40
3	3-D	2501[C]	CB3	C5-C6	4.91	1.48	1.37
3	1-D	2501[A]	CB3	C5-C6	4.91	1.48	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4-D	2501[D]	CB3	C5-C6	4.91	1.48	1.37
3	2-D	2501[B]	CB3	C5-C6	4.91	1.48	1.37
2	4-C	450[D]	UMP	C5-C4	4.90	1.53	1.40
2	2-C	450[B]	UMP	C5-C4	4.90	1.53	1.40
2	1-C	450[A]	UMP	C5-C4	4.90	1.53	1.40
2	3-C	450[C]	UMP	C5-C4	4.90	1.53	1.40
2	3-H	700[C]	UMP	P-OP2	-4.83	1.37	1.54
2	4-H	700[D]	UMP	P-OP2	-4.83	1.37	1.54
2	1-H	700[A]	UMP	P-OP2	-4.83	1.37	1.54
2	2-H	700[B]	UMP	P-OP2	-4.83	1.37	1.54
2	2-G	650[B]	UMP	C5-C4	4.79	1.52	1.40
2	1-G	650[A]	UMP	C5-C4	4.79	1.52	1.40
2	3-G	650[C]	UMP	C5-C4	4.79	1.52	1.40
2	4-G	650[D]	UMP	C5-C4	4.79	1.52	1.40
2	2-O	650[B]	UMP	C5-C4	4.78	1.52	1.40
2	4-J	400[D]	UMP	C5-C4	4.76	1.52	1.40
3	1-A	2351[A]	CB3	C8-C7	4.75	1.46	1.36
3	2-A	2351[B]	CB3	C8-C7	4.75	1.46	1.36
3	3-A	2351[C]	CB3	C8-C7	4.75	1.46	1.36
3	4-A	2351[D]	CB3	C8-C7	4.75	1.46	1.36
2	2-K	450[B]	UMP	C5-C4	4.74	1.52	1.40
2	4-O	650[D]	UMP	C5-C4	4.70	1.52	1.40
2	1-L	500[A]	UMP	C5-C4	4.70	1.52	1.40
2	1-J	400[A]	UMP	C5-C4	4.69	1.52	1.40
2	1-K	450[A]	UMP	C5-C4	4.69	1.52	1.40
2	2-P	700[B]	UMP	C5-C4	4.67	1.52	1.40
2	4-I	350[D]	UMP	C5-C4	4.67	1.52	1.40
2	1-P	700[A]	UMP	C5-C4	4.67	1.52	1.40
2	3-J	400[C]	UMP	C5-C4	4.67	1.52	1.40
2	3-P	700[C]	UMP	C5-C4	4.67	1.52	1.40
2	4-E	550[D]	UMP	C5-C4	4.66	1.52	1.40
2	2-E	550[B]	UMP	C5-C4	4.66	1.52	1.40
2	1-E	550[A]	UMP	C5-C4	4.66	1.52	1.40
2	3-E	550[C]	UMP	C5-C4	4.66	1.52	1.40
2	3-K	450[C]	UMP	C5-C4	4.66	1.52	1.40
2	2-I	350[B]	UMP	C5-C4	4.65	1.52	1.40
3	2-B	2401[B]	CB3	C16-C15	4.64	1.47	1.38
3	3-B	2401[C]	CB3	C16-C15	4.64	1.47	1.38
3	1-B	2401[A]	CB3	C16-C15	4.64	1.47	1.38
3	4-B	2401[D]	CB3	C16-C15	4.64	1.47	1.38
2	2-N	600[B]	UMP	C5-C4	4.64	1.52	1.40
2	3-L	500[C]	UMP	C5-C4	4.64	1.52	1.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	4-P	700[D]	UMP	C5-C4	4.64	1.52	1.40
2	3-M	550[C]	UMP	C5-C4	4.64	1.52	1.40
2	4-K	450[D]	UMP	C5-C4	4.63	1.52	1.40
2	3-I	350[C]	UMP	C5-C4	4.63	1.52	1.40
2	2-J	400[B]	UMP	C5-C4	4.63	1.52	1.40
2	1-M	550[A]	UMP	C5-C4	4.62	1.52	1.40
2	1-I	350[A]	UMP	C5-C4	4.62	1.52	1.40
2	4-M	550[D]	UMP	C5-C4	4.62	1.52	1.40
2	2-L	500[B]	UMP	C5-C4	4.60	1.52	1.40
2	3-H	700[C]	UMP	P-OP3	-4.61	1.37	1.54
2	4-H	700[D]	UMP	P-OP3	-4.61	1.37	1.54
2	1-H	700[A]	UMP	P-OP3	-4.61	1.37	1.54
2	1-N	600[A]	UMP	C5-C4	4.60	1.52	1.40
2	2-H	700[B]	UMP	P-OP3	-4.61	1.37	1.54
2	2-M	550[B]	UMP	C5-C4	4.59	1.52	1.40
2	4-L	500[D]	UMP	C5-C4	4.57	1.52	1.40
2	1-O	650[A]	UMP	C5-C4	4.56	1.52	1.40
2	3-N	600[C]	UMP	C5-C4	4.55	1.52	1.40
2	4-N	600[D]	UMP	C5-C4	4.55	1.52	1.40
2	3-O	650[C]	UMP	C5-C4	4.54	1.52	1.40
3	3-G	2651[C]	CB3	C5-C6	4.52	1.47	1.37
3	4-G	2651[D]	CB3	C5-C6	4.52	1.47	1.37
3	1-G	2651[A]	CB3	C5-C6	4.52	1.47	1.37
3	2-G	2651[B]	CB3	C5-C6	4.52	1.47	1.37
3	3-G	2651[C]	CB3	C8-C7	4.48	1.46	1.36
3	4-G	2651[D]	CB3	C8-C7	4.48	1.46	1.36
3	1-G	2651[A]	CB3	C8-C7	4.48	1.46	1.36
3	2-G	2651[B]	CB3	C8-C7	4.48	1.46	1.36
3	3-D	2501[C]	CB3	C9-N10	4.48	1.52	1.46
3	1-D	2501[A]	CB3	C9-N10	4.48	1.52	1.46
3	4-D	2501[D]	CB3	C9-N10	4.48	1.52	1.46
3	2-D	2501[B]	CB3	C9-N10	4.48	1.52	1.46
3	1-F	2601[A]	CB3	C13-C14	4.36	1.48	1.39
3	3-F	2601[C]	CB3	C13-C14	4.36	1.48	1.39
3	4-F	2601[D]	CB3	C13-C14	4.36	1.48	1.39
3	2-F	2601[B]	CB3	C13-C14	4.36	1.48	1.39
3	3-D	2501[C]	CB3	O4-C4	4.31	1.33	1.24
3	1-D	2501[A]	CB3	O4-C4	4.31	1.33	1.24
3	4-D	2501[D]	CB3	O4-C4	4.31	1.33	1.24
3	2-D	2501[B]	CB3	O4-C4	4.31	1.33	1.24
3	2-C	2451[B]	CB3	C8-C7	4.31	1.45	1.36
3	3-C	2451[C]	CB3	C8-C7	4.31	1.45	1.36

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1-C	2451[A]	CB3	C8-C7	4.31	1.45	1.36
3	4-C	2451[D]	CB3	C8-C7	4.31	1.45	1.36
3	1-A	2351[A]	CB3	C5-C6	4.30	1.46	1.37
3	2-A	2351[B]	CB3	C5-C6	4.30	1.46	1.37
3	3-A	2351[C]	CB3	C5-C6	4.30	1.46	1.37
3	4-A	2351[D]	CB3	C5-C6	4.30	1.46	1.37
2	3-O	650[C]	UMP	O4'-C1'	4.27	1.52	1.42
3	2-B	2401[B]	CB3	C8-C7	4.25	1.45	1.36
3	3-B	2401[C]	CB3	C8-C7	4.25	1.45	1.36
3	1-B	2401[A]	CB3	C8-C7	4.25	1.45	1.36
3	4-B	2401[D]	CB3	C8-C7	4.25	1.45	1.36
3	1-F	2601[A]	CB3	C11-C	-4.25	1.41	1.50
3	3-F	2601[C]	CB3	C11-C	-4.25	1.41	1.50
3	4-F	2601[D]	CB3	C11-C	-4.25	1.41	1.50
3	2-F	2601[B]	CB3	C11-C	-4.25	1.41	1.50
3	1-F	2601[A]	CB3	C9-N10	4.25	1.52	1.46
3	3-F	2601[C]	CB3	C9-N10	4.25	1.52	1.46
3	4-F	2601[D]	CB3	C9-N10	4.25	1.52	1.46
3	2-F	2601[B]	CB3	C9-N10	4.25	1.52	1.46
3	4-H	2701[D]	CB3	C11-C	-4.22	1.41	1.50
3	3-H	2701[C]	CB3	C11-C	-4.22	1.41	1.50
3	2-H	2701[B]	CB3	C11-C	-4.22	1.41	1.50
3	1-H	2701[A]	CB3	C11-C	-4.22	1.41	1.50
2	4-B	400[D]	UMP	C5-C4	4.16	1.51	1.40
2	1-B	400[A]	UMP	C5-C4	4.16	1.51	1.40
2	2-B	400[B]	UMP	C5-C4	4.16	1.51	1.40
2	3-B	400[C]	UMP	C5-C4	4.16	1.51	1.40
3	1-A	2351[A]	CB3	C13-C14	4.13	1.47	1.39
3	2-A	2351[B]	CB3	C13-C14	4.13	1.47	1.39
3	3-A	2351[C]	CB3	C13-C14	4.13	1.47	1.39
3	4-A	2351[D]	CB3	C13-C14	4.13	1.47	1.39
2	2-P	700[B]	UMP	O4'-C1'	4.11	1.52	1.42
3	4-H	2701[D]	CB3	C13-C14	4.08	1.47	1.39
3	3-H	2701[C]	CB3	C13-C14	4.08	1.47	1.39
3	2-H	2701[B]	CB3	C13-C14	4.08	1.47	1.39
3	1-H	2701[A]	CB3	C13-C14	4.08	1.47	1.39
2	3-M	550[C]	UMP	O4'-C1'	4.07	1.52	1.42
3	3-G	2651[C]	CB3	C13-C14	4.06	1.47	1.39
3	4-G	2651[D]	CB3	C13-C14	4.06	1.47	1.39
3	1-G	2651[A]	CB3	C13-C14	4.06	1.47	1.39
3	2-G	2651[B]	CB3	C13-C14	4.06	1.47	1.39
3	3-D	2501[C]	CB3	CP1-N10	4.05	1.50	1.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1-D	2501[A]	CB3	CP1-N10	4.05	1.50	1.46
3	4-D	2501[D]	CB3	CP1-N10	4.05	1.50	1.46
3	2-D	2501[B]	CB3	CP1-N10	4.05	1.50	1.46
3	4-H	2701[D]	CB3	O4-C4	4.04	1.32	1.24
3	3-H	2701[C]	CB3	O4-C4	4.04	1.32	1.24
3	2-H	2701[B]	CB3	O4-C4	4.04	1.32	1.24
3	1-H	2701[A]	CB3	O4-C4	4.04	1.32	1.24
2	4-C	450[D]	UMP	O4'-C1'	4.04	1.51	1.42
2	2-C	450[B]	UMP	O4'-C1'	4.04	1.51	1.42
2	1-C	450[A]	UMP	O4'-C1'	4.04	1.51	1.42
2	3-C	450[C]	UMP	O4'-C1'	4.04	1.51	1.42
2	1-P	700[A]	UMP	O4'-C1'	4.02	1.51	1.42
2	4-M	550[D]	UMP	O4'-C1'	4.01	1.51	1.42
3	3-G	2651[C]	CB3	C11-C	-4.01	1.41	1.50
3	4-G	2651[D]	CB3	C11-C	-4.01	1.41	1.50
3	1-G	2651[A]	CB3	C11-C	-4.01	1.41	1.50
3	2-G	2651[B]	CB3	C11-C	-4.01	1.41	1.50
3	1-F	2601[A]	CB3	O4-C4	4.00	1.32	1.24
3	3-F	2601[C]	CB3	O4-C4	4.00	1.32	1.24
3	4-F	2601[D]	CB3	O4-C4	4.00	1.32	1.24
3	2-F	2601[B]	CB3	O4-C4	4.00	1.32	1.24
2	1-M	550[A]	UMP	O4'-C1'	3.99	1.51	1.42
3	1-F	2601[A]	CB3	C5-C6	3.98	1.46	1.37
3	3-F	2601[C]	CB3	C5-C6	3.98	1.46	1.37
3	4-F	2601[D]	CB3	C5-C6	3.98	1.46	1.37
3	2-F	2601[B]	CB3	C5-C6	3.98	1.46	1.37
2	4-B	400[D]	UMP	C2-N1	-3.97	1.34	1.38
2	1-B	400[A]	UMP	C2-N1	-3.97	1.34	1.38
2	2-B	400[B]	UMP	C2-N1	-3.97	1.34	1.38
2	3-B	400[C]	UMP	C2-N1	-3.97	1.34	1.38
3	2-E	2551[B]	CB3	C8-C7	3.96	1.45	1.36
3	1-E	2551[A]	CB3	C8-C7	3.96	1.45	1.36
3	4-E	2551[D]	CB3	C8-C7	3.96	1.45	1.36
3	3-E	2551[C]	CB3	C8-C7	3.96	1.45	1.36
2	2-F	600[B]	UMP	C5-C4	3.96	1.50	1.40
2	3-F	600[C]	UMP	C5-C4	3.96	1.50	1.40
2	1-F	600[A]	UMP	C5-C4	3.96	1.50	1.40
2	4-F	600[D]	UMP	C5-C4	3.96	1.50	1.40
2	2-M	550[B]	UMP	O4'-C1'	3.95	1.51	1.42
2	4-P	700[D]	UMP	O4'-C1'	3.94	1.51	1.42
2	4-I	350[D]	UMP	O4'-C1'	3.92	1.51	1.42
2	2-J	400[B]	UMP	O4'-C1'	3.91	1.51	1.42

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	1-L	500[A]	UMP	O4'-C1'	3.90	1.51	1.42
2	4-N	600[D]	UMP	O4'-C1'	3.89	1.51	1.42
3	3-G	2651[C]	CB3	C7-C6	3.89	1.47	1.38
3	4-G	2651[D]	CB3	C7-C6	3.89	1.47	1.38
3	1-G	2651[A]	CB3	C7-C6	3.89	1.47	1.38
3	2-G	2651[B]	CB3	C7-C6	3.89	1.47	1.38
2	1-J	400[A]	UMP	O4'-C1'	3.88	1.51	1.42
2	1-K	450[A]	UMP	O4'-C1'	3.88	1.51	1.42
2	4-J	400[D]	UMP	O4'-C1'	3.87	1.51	1.42
2	2-L	500[B]	UMP	O4'-C1'	3.87	1.51	1.42
2	3-L	500[C]	UMP	O4'-C1'	3.85	1.51	1.42
2	3-J	400[C]	UMP	O4'-C1'	3.85	1.51	1.42
2	3-P	700[C]	UMP	O4'-C1'	3.84	1.51	1.42
3	1-A	2351[A]	CB3	C16-C15	3.84	1.46	1.38
3	2-A	2351[B]	CB3	C16-C15	3.84	1.46	1.38
3	3-A	2351[C]	CB3	C16-C15	3.84	1.46	1.38
3	4-A	2351[D]	CB3	C16-C15	3.84	1.46	1.38
3	3-G	2651[C]	CB3	C16-C11	3.83	1.45	1.39
3	4-G	2651[D]	CB3	C16-C11	3.83	1.45	1.39
3	1-G	2651[A]	CB3	C16-C11	3.83	1.45	1.39
3	2-G	2651[B]	CB3	C16-C11	3.83	1.45	1.39
2	2-I	350[B]	UMP	O4'-C1'	3.82	1.51	1.42
2	1-I	350[A]	UMP	O4'-C1'	3.82	1.51	1.42
2	2-N	600[B]	UMP	O4'-C1'	3.82	1.51	1.42
3	3-D	2501[C]	CB3	C16-C15	3.81	1.46	1.38
3	1-D	2501[A]	CB3	C16-C15	3.81	1.46	1.38
3	4-D	2501[D]	CB3	C16-C15	3.81	1.46	1.38
3	2-D	2501[B]	CB3	C16-C15	3.81	1.46	1.38
2	3-K	450[C]	UMP	O4'-C1'	3.79	1.51	1.42
2	4-L	500[D]	UMP	O4'-C1'	3.79	1.51	1.42
2	3-N	600[C]	UMP	O4'-C1'	3.79	1.51	1.42
2	4-K	450[D]	UMP	O4'-C1'	3.78	1.51	1.42
2	2-K	450[B]	UMP	O4'-C1'	3.77	1.51	1.42
2	3-I	350[C]	UMP	O4'-C1'	3.77	1.51	1.42
3	1-F	2601[A]	CB3	C16-C11	3.73	1.45	1.39
3	3-F	2601[C]	CB3	C16-C11	3.73	1.45	1.39
3	4-F	2601[D]	CB3	C16-C11	3.73	1.45	1.39
3	2-F	2601[B]	CB3	C16-C11	3.73	1.45	1.39
2	2-O	650[B]	UMP	O4'-C1'	3.72	1.51	1.42
2	1-N	600[A]	UMP	O4'-C1'	3.71	1.51	1.42
2	3-D	500[C]	UMP	C5-C4	3.69	1.50	1.40
2	2-D	500[B]	UMP	C5-C4	3.69	1.50	1.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	4-D	500[D]	UMP	C5-C4	3.69	1.50	1.40
2	1-D	500[A]	UMP	C5-C4	3.69	1.50	1.40
3	2-E	2551[B]	CB3	CP1-N10	3.68	1.50	1.46
3	1-E	2551[A]	CB3	CP1-N10	3.68	1.50	1.46
3	4-E	2551[D]	CB3	CP1-N10	3.68	1.50	1.46
3	3-E	2551[C]	CB3	CP1-N10	3.68	1.50	1.46
3	2-E	2551[B]	CB3	C5-C6	3.58	1.45	1.37
3	1-E	2551[A]	CB3	C5-C6	3.58	1.45	1.37
3	4-E	2551[D]	CB3	C5-C6	3.58	1.45	1.37
3	3-E	2551[C]	CB3	C5-C6	3.58	1.45	1.37
3	1-A	2351[A]	CB3	C7-C6	3.57	1.47	1.38
3	2-A	2351[B]	CB3	C7-C6	3.57	1.47	1.38
3	3-A	2351[C]	CB3	C7-C6	3.57	1.47	1.38
3	4-A	2351[D]	CB3	C7-C6	3.57	1.47	1.38
3	2-C	2451[B]	CB3	C13-C14	3.57	1.46	1.39
3	3-C	2451[C]	CB3	C13-C14	3.57	1.46	1.39
3	1-C	2451[A]	CB3	C13-C14	3.57	1.46	1.39
3	4-C	2451[D]	CB3	C13-C14	3.57	1.46	1.39
3	2-B	2401[B]	CB3	C13-C14	3.56	1.46	1.39
3	3-B	2401[C]	CB3	C13-C14	3.56	1.46	1.39
3	1-B	2401[A]	CB3	C13-C14	3.56	1.46	1.39
3	4-B	2401[D]	CB3	C13-C14	3.56	1.46	1.39
2	4-O	650[D]	UMP	O4'-C1'	3.55	1.50	1.42
3	3-D	2501[C]	CB3	C13-C14	3.51	1.46	1.39
3	1-D	2501[A]	CB3	C13-C14	3.51	1.46	1.39
3	4-D	2501[D]	CB3	C13-C14	3.51	1.46	1.39
3	2-D	2501[B]	CB3	C13-C14	3.51	1.46	1.39
3	2-B	2401[B]	CB3	C5-C6	3.49	1.44	1.37
3	3-B	2401[C]	CB3	C5-C6	3.49	1.44	1.37
3	1-B	2401[A]	CB3	C5-C6	3.49	1.44	1.37
3	4-B	2401[D]	CB3	C5-C6	3.49	1.44	1.37
2	1-O	650[A]	UMP	O4'-C1'	3.48	1.50	1.42
3	4-H	2701[D]	CB3	C8-C7	3.42	1.43	1.36
3	3-H	2701[C]	CB3	C8-C7	3.42	1.43	1.36
3	2-H	2701[B]	CB3	C8-C7	3.42	1.43	1.36
3	1-H	2701[A]	CB3	C8-C7	3.42	1.43	1.36
2	4-B	400[D]	UMP	O3'-C3'	3.39	1.51	1.43
2	1-B	400[A]	UMP	O3'-C3'	3.39	1.51	1.43
2	2-B	400[B]	UMP	O3'-C3'	3.39	1.51	1.43
2	3-B	400[C]	UMP	O3'-C3'	3.39	1.51	1.43
2	3-H	700[C]	UMP	P-O5'	-3.35	1.48	1.60
2	4-H	700[D]	UMP	P-O5'	-3.35	1.48	1.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	1-H	700[A]	UMP	P-O5'	-3.35	1.48	1.60
2	2-H	700[B]	UMP	P-O5'	-3.35	1.48	1.60
3	3-G	2651[C]	CB3	CP1-N10	3.34	1.50	1.46
3	4-G	2651[D]	CB3	CP1-N10	3.34	1.50	1.46
3	1-G	2651[A]	CB3	CP1-N10	3.34	1.50	1.46
3	2-G	2651[B]	CB3	CP1-N10	3.34	1.50	1.46
3	2-E	2551[B]	CB3	C16-C11	3.33	1.45	1.39
3	1-E	2551[A]	CB3	C16-C11	3.33	1.45	1.39
3	4-E	2551[D]	CB3	C16-C11	3.33	1.45	1.39
3	3-E	2551[C]	CB3	C16-C11	3.33	1.45	1.39
2	3-D	500[C]	UMP	O3'-C3'	3.31	1.51	1.43
2	2-D	500[B]	UMP	O3'-C3'	3.31	1.51	1.43
2	4-D	500[D]	UMP	O3'-C3'	3.31	1.51	1.43
2	1-D	500[A]	UMP	O3'-C3'	3.31	1.51	1.43
3	2-C	2451[B]	CB3	C7-C6	3.31	1.46	1.38
3	3-C	2451[C]	CB3	C7-C6	3.31	1.46	1.38
3	1-C	2451[A]	CB3	C7-C6	3.31	1.46	1.38
3	4-C	2451[D]	CB3	C7-C6	3.31	1.46	1.38
3	2-C	2451[B]	CB3	C16-C11	3.29	1.45	1.39
3	3-C	2451[C]	CB3	C16-C11	3.29	1.45	1.39
3	1-C	2451[A]	CB3	C16-C11	3.29	1.45	1.39
3	4-C	2451[D]	CB3	C16-C11	3.29	1.45	1.39
3	4-H	2701[D]	CB3	C16-C11	3.24	1.44	1.39
3	3-H	2701[C]	CB3	C16-C11	3.24	1.44	1.39
3	2-H	2701[B]	CB3	C16-C11	3.24	1.44	1.39
3	1-H	2701[A]	CB3	C16-C11	3.24	1.44	1.39
3	4-H	2701[D]	CB3	C8A-N1	-3.12	1.32	1.38
3	3-H	2701[C]	CB3	C8A-N1	-3.12	1.32	1.38
3	2-H	2701[B]	CB3	C8A-N1	-3.12	1.32	1.38
3	1-H	2701[A]	CB3	C8A-N1	-3.12	1.32	1.38
3	2-C	2451[B]	CB3	C11-C	-3.10	1.43	1.50
3	3-C	2451[C]	CB3	C11-C	-3.10	1.43	1.50
3	1-C	2451[A]	CB3	C11-C	-3.10	1.43	1.50
3	4-C	2451[D]	CB3	C11-C	-3.10	1.43	1.50
3	2-C	2451[B]	CB3	C16-C15	3.03	1.44	1.38
3	4-H	2701[D]	CB3	CP1-N10	3.03	1.49	1.46
3	3-H	2701[C]	CB3	CP1-N10	3.03	1.49	1.46
3	2-H	2701[B]	CB3	CP1-N10	3.03	1.49	1.46
3	3-C	2451[C]	CB3	C16-C15	3.03	1.44	1.38
3	1-H	2701[A]	CB3	CP1-N10	3.03	1.49	1.46
3	1-C	2451[A]	CB3	C16-C15	3.03	1.44	1.38
3	4-C	2451[D]	CB3	C16-C15	3.03	1.44	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1-F	2601[A]	CB3	C15-C14	3.02	1.45	1.39
3	3-F	2601[C]	CB3	C15-C14	3.02	1.45	1.39
3	4-F	2601[D]	CB3	C15-C14	3.02	1.45	1.39
3	2-F	2601[B]	CB3	C15-C14	3.02	1.45	1.39
3	1-A	2351[A]	CB3	C11-C	-3.02	1.43	1.50
3	2-A	2351[B]	CB3	C11-C	-3.02	1.43	1.50
3	3-A	2351[C]	CB3	C11-C	-3.02	1.43	1.50
3	4-A	2351[D]	CB3	C11-C	-3.02	1.43	1.50
2	3-H	700[C]	UMP	P-OP1	-3.01	1.41	1.51
2	4-H	700[D]	UMP	P-OP1	-3.01	1.41	1.51
2	1-H	700[A]	UMP	P-OP1	-3.01	1.41	1.51
2	2-H	700[B]	UMP	P-OP1	-3.01	1.41	1.51
3	2-B	2401[B]	CB3	C11-C	-3.00	1.43	1.50
3	3-B	2401[C]	CB3	C11-C	-3.00	1.43	1.50
3	1-B	2401[A]	CB3	C11-C	-3.00	1.43	1.50
3	4-B	2401[D]	CB3	C11-C	-3.00	1.43	1.50
3	3-G	2651[C]	CB3	C15-C14	2.96	1.45	1.39
3	4-G	2651[D]	CB3	C15-C14	2.96	1.45	1.39
3	1-G	2651[A]	CB3	C15-C14	2.96	1.45	1.39
3	2-G	2651[B]	CB3	C15-C14	2.96	1.45	1.39
3	3-D	2501[C]	CB3	C13-C12	2.94	1.44	1.38
3	1-D	2501[A]	CB3	C13-C12	2.94	1.44	1.38
3	4-D	2501[D]	CB3	C13-C12	2.94	1.44	1.38
3	2-D	2501[B]	CB3	C13-C12	2.94	1.44	1.38
3	1-A	2351[A]	CB3	C16-C11	2.92	1.44	1.39
3	2-A	2351[B]	CB3	C16-C11	2.92	1.44	1.39
3	3-A	2351[C]	CB3	C16-C11	2.92	1.44	1.39
3	4-A	2351[D]	CB3	C16-C11	2.92	1.44	1.39
3	2-E	2551[B]	CB3	C7-C6	2.91	1.45	1.38
3	1-E	2551[A]	CB3	C7-C6	2.91	1.45	1.38
3	4-E	2551[D]	CB3	C7-C6	2.91	1.45	1.38
3	3-E	2551[C]	CB3	C7-C6	2.91	1.45	1.38
3	1-F	2601[A]	CB3	C8A-N1	-2.91	1.33	1.38
3	3-F	2601[C]	CB3	C8A-N1	-2.91	1.33	1.38
3	4-F	2601[D]	CB3	C8A-N1	-2.91	1.33	1.38
3	2-F	2601[B]	CB3	C8A-N1	-2.91	1.33	1.38
3	1-F	2601[A]	CB3	C7-C6	2.90	1.45	1.38
3	3-F	2601[C]	CB3	C7-C6	2.90	1.45	1.38
3	4-F	2601[D]	CB3	C7-C6	2.90	1.45	1.38
3	2-F	2601[B]	CB3	C7-C6	2.90	1.45	1.38
3	2-E	2551[B]	CB3	C13-C14	2.89	1.45	1.39
3	1-E	2551[A]	CB3	C13-C14	2.89	1.45	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4-E	2551[D]	CB3	C13-C14	2.89	1.45	1.39
3	3-E	2551[C]	CB3	C13-C14	2.89	1.45	1.39
3	1-A	2351[A]	CB3	C13-C12	2.87	1.44	1.38
3	2-A	2351[B]	CB3	C13-C12	2.87	1.44	1.38
3	3-A	2351[C]	CB3	C13-C12	2.87	1.44	1.38
3	4-A	2351[D]	CB3	C13-C12	2.87	1.44	1.38
2	3-D	500[C]	UMP	C2-N3	-2.87	1.31	1.37
2	2-D	500[B]	UMP	C2-N3	-2.87	1.31	1.37
2	4-D	500[D]	UMP	C2-N3	-2.87	1.31	1.37
2	1-D	500[A]	UMP	C2-N3	-2.87	1.31	1.37
3	3-D	2501[C]	CB3	C8-C7	2.86	1.42	1.36
3	1-D	2501[A]	CB3	C8-C7	2.86	1.42	1.36
3	4-D	2501[D]	CB3	C8-C7	2.86	1.42	1.36
3	2-D	2501[B]	CB3	C8-C7	2.86	1.42	1.36
2	2-A	350[B]	UMP	O4'-C1'	2.85	1.49	1.42
2	4-A	350[D]	UMP	O4'-C1'	2.85	1.49	1.42
2	3-A	350[C]	UMP	O4'-C1'	2.85	1.49	1.42
2	1-A	350[A]	UMP	O4'-C1'	2.85	1.49	1.42
3	3-D	2501[C]	CB3	C7-C6	2.85	1.45	1.38
3	1-D	2501[A]	CB3	C7-C6	2.85	1.45	1.38
3	4-D	2501[D]	CB3	C7-C6	2.85	1.45	1.38
3	2-D	2501[B]	CB3	C7-C6	2.85	1.45	1.38
3	3-G	2651[C]	CB3	CP1-CP2	2.82	1.51	1.47
3	4-G	2651[D]	CB3	CP1-CP2	2.82	1.51	1.47
3	1-G	2651[A]	CB3	CP1-CP2	2.82	1.51	1.47
3	2-G	2651[B]	CB3	CP1-CP2	2.82	1.51	1.47
3	1-F	2601[A]	CB3	C2-N3	2.81	1.37	1.33
3	3-F	2601[C]	CB3	C2-N3	2.81	1.37	1.33
3	4-F	2601[D]	CB3	C2-N3	2.81	1.37	1.33
3	2-F	2601[B]	CB3	C2-N3	2.81	1.37	1.33
2	4-K	450[D]	UMP	O4'-C4'	2.76	1.51	1.45
3	3-D	2501[C]	CB3	C8-C8A	2.76	1.46	1.40
3	1-D	2501[A]	CB3	C8-C8A	2.76	1.46	1.40
3	4-D	2501[D]	CB3	C8-C8A	2.76	1.46	1.40
3	2-D	2501[B]	CB3	C8-C8A	2.76	1.46	1.40
3	3-G	2651[C]	CB3	C12-C11	2.76	1.44	1.39
3	4-G	2651[D]	CB3	C12-C11	2.76	1.44	1.39
3	1-G	2651[A]	CB3	C12-C11	2.76	1.44	1.39
3	2-G	2651[B]	CB3	C12-C11	2.76	1.44	1.39
2	4-L	500[D]	UMP	O4'-C4'	2.75	1.51	1.45
2	1-M	550[A]	UMP	O4'-C4'	2.72	1.51	1.45
3	2-B	2401[B]	CB3	CA-N	2.71	1.51	1.45

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-B	2401[C]	CB3	CA-N	2.71	1.51	1.45
3	1-B	2401[A]	CB3	CA-N	2.71	1.51	1.45
3	4-B	2401[D]	CB3	CA-N	2.71	1.51	1.45
3	2-E	2551[B]	CB3	CP1-CP2	2.70	1.51	1.47
3	1-E	2551[A]	CB3	CP1-CP2	2.70	1.51	1.47
3	4-E	2551[D]	CB3	CP1-CP2	2.70	1.51	1.47
3	3-E	2551[C]	CB3	CP1-CP2	2.70	1.51	1.47
2	2-M	550[B]	UMP	O4'-C4'	2.70	1.51	1.45
2	3-J	400[C]	UMP	O4'-C4'	2.68	1.51	1.45
2	3-L	500[C]	UMP	O4'-C4'	2.68	1.51	1.45
2	3-K	450[C]	UMP	O4'-C4'	2.67	1.51	1.45
2	1-L	500[A]	UMP	O4'-C4'	2.65	1.51	1.45
2	4-M	550[D]	UMP	O4'-C4'	2.65	1.51	1.45
3	3-D	2501[C]	CB3	C2-N3	2.64	1.36	1.33
3	1-D	2501[A]	CB3	C2-N3	2.64	1.36	1.33
3	4-D	2501[D]	CB3	C2-N3	2.64	1.36	1.33
3	2-D	2501[B]	CB3	C2-N3	2.64	1.36	1.33
3	2-E	2551[B]	CB3	C11-C	-2.64	1.44	1.50
3	1-E	2551[A]	CB3	C11-C	-2.64	1.44	1.50
3	4-E	2551[D]	CB3	C11-C	-2.64	1.44	1.50
3	3-E	2551[C]	CB3	C11-C	-2.64	1.44	1.50
2	1-P	700[A]	UMP	O4'-C4'	2.64	1.51	1.45
2	2-K	450[B]	UMP	O4'-C4'	2.63	1.51	1.45
2	1-N	600[A]	UMP	O4'-C4'	2.64	1.51	1.45
2	2-J	400[B]	UMP	O4'-C4'	2.63	1.51	1.45
2	2-L	500[B]	UMP	O4'-C4'	2.63	1.51	1.45
2	2-N	600[B]	UMP	O4'-C4'	2.63	1.51	1.45
2	3-M	550[C]	UMP	O4'-C4'	2.63	1.51	1.45
2	4-J	400[D]	UMP	O4'-C4'	2.60	1.51	1.45
2	1-K	450[A]	UMP	O4'-C4'	2.60	1.51	1.45
3	4-H	2701[D]	CB3	C5-C6	2.58	1.42	1.37
3	3-H	2701[C]	CB3	C5-C6	2.58	1.42	1.37
3	2-H	2701[B]	CB3	C5-C6	2.58	1.42	1.37
3	1-H	2701[A]	CB3	C5-C6	2.58	1.42	1.37
3	2-C	2451[B]	CB3	C8-C8A	2.56	1.46	1.40
3	3-C	2451[C]	CB3	C8-C8A	2.56	1.46	1.40
3	1-C	2451[A]	CB3	C8-C8A	2.56	1.46	1.40
3	4-C	2451[D]	CB3	C8-C8A	2.56	1.46	1.40
2	1-J	400[A]	UMP	O4'-C4'	2.55	1.51	1.45
2	3-P	700[C]	UMP	O4'-C4'	2.55	1.51	1.45
2	2-I	350[B]	UMP	O4'-C4'	2.55	1.51	1.45
3	2-E	2551[B]	CB3	C13-C12	2.54	1.43	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1-E	2551[A]	CB3	C13-C12	2.54	1.43	1.38
2	4-N	600[D]	UMP	O4'-C4'	2.54	1.51	1.45
3	4-E	2551[D]	CB3	C13-C12	2.54	1.43	1.38
3	3-E	2551[C]	CB3	C13-C12	2.54	1.43	1.38
2	3-N	600[C]	UMP	O4'-C4'	2.54	1.51	1.45
3	2-B	2401[B]	CB3	C7-C6	2.51	1.44	1.38
2	4-P	700[D]	UMP	O4'-C4'	2.51	1.50	1.45
3	3-B	2401[C]	CB3	C7-C6	2.51	1.44	1.38
3	1-B	2401[A]	CB3	C7-C6	2.51	1.44	1.38
3	4-B	2401[D]	CB3	C7-C6	2.51	1.44	1.38
2	2-P	700[B]	UMP	O4'-C4'	2.51	1.50	1.45
2	3-I	350[C]	UMP	O4'-C4'	2.50	1.50	1.45
3	1-A	2351[A]	CB3	C9-N10	2.50	1.49	1.46
3	2-A	2351[B]	CB3	C9-N10	2.50	1.49	1.46
3	3-A	2351[C]	CB3	C9-N10	2.50	1.49	1.46
3	4-A	2351[D]	CB3	C9-N10	2.50	1.49	1.46
3	3-D	2501[C]	CB3	C16-C11	2.49	1.43	1.39
3	1-D	2501[A]	CB3	C16-C11	2.49	1.43	1.39
3	4-D	2501[D]	CB3	C16-C11	2.49	1.43	1.39
3	2-D	2501[B]	CB3	C16-C11	2.49	1.43	1.39
3	2-B	2401[B]	CB3	C8-C8A	2.48	1.46	1.40
3	3-B	2401[C]	CB3	C8-C8A	2.48	1.46	1.40
3	1-B	2401[A]	CB3	C8-C8A	2.48	1.46	1.40
3	4-B	2401[D]	CB3	C8-C8A	2.48	1.46	1.40
3	2-C	2451[B]	CB3	C2-N3	2.47	1.36	1.33
3	3-C	2451[C]	CB3	C2-N3	2.47	1.36	1.33
3	1-C	2451[A]	CB3	C2-N3	2.47	1.36	1.33
3	4-C	2451[D]	CB3	C2-N3	2.47	1.36	1.33
3	2-E	2551[B]	CB3	C16-C15	2.47	1.43	1.38
3	1-E	2551[A]	CB3	C16-C15	2.47	1.43	1.38
3	4-E	2551[D]	CB3	C16-C15	2.47	1.43	1.38
3	3-E	2551[C]	CB3	C16-C15	2.47	1.43	1.38
3	2-E	2551[B]	CB3	C9-C6	-2.46	1.46	1.51
3	1-E	2551[A]	CB3	C9-C6	-2.46	1.46	1.51
3	4-E	2551[D]	CB3	C9-C6	-2.46	1.46	1.51
3	3-E	2551[C]	CB3	C9-C6	-2.46	1.46	1.51
2	3-D	500[C]	UMP	C2-N1	-2.46	1.35	1.38
2	2-D	500[B]	UMP	C2-N1	-2.46	1.35	1.38
2	4-D	500[D]	UMP	C2-N1	-2.46	1.35	1.38
2	1-D	500[A]	UMP	C2-N1	-2.46	1.35	1.38
2	4-I	350[D]	UMP	O4'-C4'	2.44	1.50	1.45
3	1-F	2601[A]	CB3	C8-C8A	2.43	1.46	1.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-F	2601[C]	CB3	C8-C8A	2.43	1.46	1.40
3	4-F	2601[D]	CB3	C8-C8A	2.43	1.46	1.40
3	2-F	2601[B]	CB3	C8-C8A	2.43	1.46	1.40
2	3-H	700[C]	UMP	O4'-C4'	2.42	1.50	1.45
2	4-H	700[D]	UMP	O4'-C4'	2.42	1.50	1.45
2	1-H	700[A]	UMP	O4'-C4'	2.42	1.50	1.45
2	2-H	700[B]	UMP	O4'-C4'	2.42	1.50	1.45
3	3-D	2501[C]	CB3	C15-C14	2.41	1.44	1.39
3	1-D	2501[A]	CB3	C15-C14	2.41	1.44	1.39
3	4-D	2501[D]	CB3	C15-C14	2.41	1.44	1.39
3	2-D	2501[B]	CB3	C15-C14	2.41	1.44	1.39
3	2-B	2401[B]	CB3	C13-C12	2.40	1.43	1.38
3	3-B	2401[C]	CB3	C13-C12	2.40	1.43	1.38
3	1-B	2401[A]	CB3	C13-C12	2.40	1.43	1.38
3	4-B	2401[D]	CB3	C13-C12	2.40	1.43	1.38
3	2-E	2551[B]	CB3	C15-C14	2.38	1.44	1.39
3	1-E	2551[A]	CB3	C15-C14	2.38	1.44	1.39
3	4-E	2551[D]	CB3	C15-C14	2.38	1.44	1.39
3	3-E	2551[C]	CB3	C15-C14	2.38	1.44	1.39
3	3-G	2651[C]	CB3	C9-N10	2.37	1.49	1.46
3	4-G	2651[D]	CB3	C9-N10	2.37	1.49	1.46
3	1-G	2651[A]	CB3	C9-N10	2.37	1.49	1.46
3	2-G	2651[B]	CB3	C9-N10	2.37	1.49	1.46
2	4-C	450[D]	UMP	C2-N1	2.37	1.41	1.38
2	2-C	450[B]	UMP	C2-N1	2.37	1.41	1.38
2	1-C	450[A]	UMP	C2-N1	2.37	1.41	1.38
2	3-C	450[C]	UMP	C2-N1	2.37	1.41	1.38
3	2-E	2551[B]	CB3	C8-C8A	2.36	1.45	1.40
3	1-E	2551[A]	CB3	C8-C8A	2.36	1.45	1.40
3	4-E	2551[D]	CB3	C8-C8A	2.36	1.45	1.40
3	3-E	2551[C]	CB3	C8-C8A	2.36	1.45	1.40
3	4-H	2701[D]	CB3	C15-C14	2.35	1.44	1.39
3	3-H	2701[C]	CB3	C15-C14	2.35	1.44	1.39
3	2-H	2701[B]	CB3	C15-C14	2.35	1.44	1.39
3	1-H	2701[A]	CB3	C15-C14	2.35	1.44	1.39
3	2-B	2401[B]	CB3	C-N	-2.34	1.29	1.34
3	3-B	2401[C]	CB3	C-N	-2.34	1.29	1.34
3	1-B	2401[A]	CB3	C-N	-2.34	1.29	1.34
3	4-B	2401[D]	CB3	C-N	-2.34	1.29	1.34
3	1-A	2351[A]	CB3	C12-C11	2.34	1.43	1.39
2	4-O	650[D]	UMP	O4'-C4'	2.34	1.50	1.45
3	2-A	2351[B]	CB3	C12-C11	2.34	1.43	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-A	2351[C]	CB3	C12-C11	2.34	1.43	1.39
3	4-A	2351[D]	CB3	C12-C11	2.34	1.43	1.39
3	1-F	2601[A]	CB3	C16-C15	2.32	1.43	1.38
3	3-F	2601[C]	CB3	C16-C15	2.32	1.43	1.38
3	4-F	2601[D]	CB3	C16-C15	2.32	1.43	1.38
3	2-F	2601[B]	CB3	C16-C15	2.32	1.43	1.38
3	2-B	2401[B]	CB3	C16-C11	2.30	1.43	1.39
3	3-B	2401[C]	CB3	C16-C11	2.30	1.43	1.39
3	1-B	2401[A]	CB3	C16-C11	2.30	1.43	1.39
3	4-B	2401[D]	CB3	C16-C11	2.30	1.43	1.39
3	2-C	2451[B]	CB3	CP1-CP2	2.30	1.50	1.47
3	3-C	2451[C]	CB3	CP1-CP2	2.30	1.50	1.47
2	1-I	350[A]	UMP	O4'-C4'	2.30	1.50	1.45
3	1-C	2451[A]	CB3	CP1-CP2	2.30	1.50	1.47
3	4-C	2451[D]	CB3	CP1-CP2	2.30	1.50	1.47
3	2-B	2401[B]	CB3	CP1-N10	2.28	1.48	1.46
3	3-B	2401[C]	CB3	CP1-N10	2.28	1.48	1.46
3	1-B	2401[A]	CB3	CP1-N10	2.28	1.48	1.46
3	4-B	2401[D]	CB3	CP1-N10	2.28	1.48	1.46
3	1-F	2601[A]	CB3	C8-C7	2.27	1.41	1.36
3	3-F	2601[C]	CB3	C8-C7	2.27	1.41	1.36
3	4-F	2601[D]	CB3	C8-C7	2.27	1.41	1.36
3	2-F	2601[B]	CB3	C8-C7	2.27	1.41	1.36
3	2-E	2551[B]	CB3	C2-NA2	2.21	1.35	1.32
3	1-E	2551[A]	CB3	C2-NA2	2.21	1.35	1.32
3	4-E	2551[D]	CB3	C2-NA2	2.21	1.35	1.32
3	3-E	2551[C]	CB3	C2-NA2	2.21	1.35	1.32
3	1-A	2351[A]	CB3	C8-C8A	2.20	1.45	1.40
3	2-A	2351[B]	CB3	C8-C8A	2.20	1.45	1.40
3	3-A	2351[C]	CB3	C8-C8A	2.20	1.45	1.40
3	4-A	2351[D]	CB3	C8-C8A	2.20	1.45	1.40
3	4-H	2701[D]	CB3	C7-C6	2.16	1.43	1.38
3	3-H	2701[C]	CB3	C7-C6	2.16	1.43	1.38
3	2-H	2701[B]	CB3	C7-C6	2.16	1.43	1.38
3	1-H	2701[A]	CB3	C7-C6	2.16	1.43	1.38
3	2-E	2551[B]	CB3	C2-N3	2.10	1.36	1.33
3	1-E	2551[A]	CB3	C2-N3	2.10	1.36	1.33
3	4-E	2551[D]	CB3	C2-N3	2.10	1.36	1.33
3	3-E	2551[C]	CB3	C2-N3	2.10	1.36	1.33
2	3-O	650[C]	UMP	O4'-C4'	2.09	1.49	1.45
3	4-H	2701[D]	CB3	C12-C11	2.08	1.42	1.39
3	3-H	2701[C]	CB3	C12-C11	2.08	1.42	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-H	2701[B]	CB3	C12-C11	2.08	1.42	1.39
3	1-H	2701[A]	CB3	C12-C11	2.08	1.42	1.39
3	2-E	2551[B]	CB3	CG-CD	2.07	1.55	1.50
3	1-E	2551[A]	CB3	CG-CD	2.07	1.55	1.50
3	4-E	2551[D]	CB3	CG-CD	2.07	1.55	1.50
3	3-E	2551[C]	CB3	CG-CD	2.07	1.55	1.50
3	2-C	2451[B]	CB3	C-N	-2.04	1.29	1.34
3	3-C	2451[C]	CB3	C-N	-2.04	1.29	1.34
3	1-C	2451[A]	CB3	C-N	-2.04	1.29	1.34
3	4-C	2451[D]	CB3	C-N	-2.04	1.29	1.34
2	3-D	500[C]	UMP	C4-N3	-2.03	1.33	1.37
2	2-D	500[B]	UMP	C4-N3	-2.03	1.33	1.37
2	4-D	500[D]	UMP	C4-N3	-2.03	1.33	1.37
2	1-D	500[A]	UMP	C4-N3	-2.03	1.33	1.37
2	1-O	650[A]	UMP	O4'-C4'	2.02	1.49	1.45
3	3-G	2651[C]	CB3	C8-C8A	2.01	1.45	1.40
3	4-G	2651[D]	CB3	C8-C8A	2.01	1.45	1.40
3	1-G	2651[A]	CB3	C8-C8A	2.01	1.45	1.40
3	2-G	2651[B]	CB3	C8-C8A	2.01	1.45	1.40

All (758) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	2-A	350[B]	UMP	C5-C6-N1	-11.26	108.47	121.21
2	4-A	350[D]	UMP	C5-C6-N1	-11.26	108.47	121.21
2	3-A	350[C]	UMP	C5-C6-N1	-11.26	108.47	121.21
2	1-A	350[A]	UMP	C5-C6-N1	-11.26	108.47	121.21
2	4-C	450[D]	UMP	C5-C6-N1	-11.04	108.72	121.21
2	2-C	450[B]	UMP	C5-C6-N1	-11.04	108.72	121.21
2	1-C	450[A]	UMP	C5-C6-N1	-11.04	108.72	121.21
2	3-C	450[C]	UMP	C5-C6-N1	-11.04	108.72	121.21
2	2-G	650[B]	UMP	C5-C6-N1	-9.81	110.11	121.21
2	1-G	650[A]	UMP	C5-C6-N1	-9.81	110.11	121.21
2	3-G	650[C]	UMP	C5-C6-N1	-9.81	110.11	121.21
2	4-G	650[D]	UMP	C5-C6-N1	-9.81	110.11	121.21
2	3-D	500[C]	UMP	C5-C6-N1	-9.19	110.81	121.21
2	2-D	500[B]	UMP	C5-C6-N1	-9.19	110.81	121.21
2	4-D	500[D]	UMP	C5-C6-N1	-9.19	110.81	121.21
2	1-D	500[A]	UMP	C5-C6-N1	-9.19	110.81	121.21
2	4-E	550[D]	UMP	C5-C6-N1	-8.92	111.12	121.21
2	2-E	550[B]	UMP	C5-C6-N1	-8.92	111.12	121.21
2	1-E	550[A]	UMP	C5-C6-N1	-8.92	111.12	121.21

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	3-E	550[C]	UMP	C5-C6-N1	-8.92	111.12	121.21
2	3-H	700[C]	UMP	C5-C6-N1	-8.73	111.33	121.21
2	4-H	700[D]	UMP	C5-C6-N1	-8.73	111.33	121.21
2	1-H	700[A]	UMP	C5-C6-N1	-8.73	111.33	121.21
2	2-H	700[B]	UMP	C5-C6-N1	-8.73	111.33	121.21
3	3-G	2651[C]	CB3	CP1-CP2-CP3	-8.55	167.56	177.80
3	4-G	2651[D]	CB3	CP1-CP2-CP3	-8.55	167.56	177.80
3	1-G	2651[A]	CB3	CP1-CP2-CP3	-8.55	167.56	177.80
3	2-G	2651[B]	CB3	CP1-CP2-CP3	-8.55	167.56	177.80
3	1-A	2351[A]	CB3	CP1-CP2-CP3	-8.51	167.61	177.80
3	2-A	2351[B]	CB3	CP1-CP2-CP3	-8.51	167.61	177.80
3	3-A	2351[C]	CB3	CP1-CP2-CP3	-8.51	167.61	177.80
3	4-A	2351[D]	CB3	CP1-CP2-CP3	-8.51	167.61	177.80
2	3-I	350[C]	UMP	O4'-C1'-N1	7.96	122.63	107.68
2	2-I	350[B]	UMP	O4'-C1'-N1	7.87	122.46	107.68
2	1-I	350[A]	UMP	O4'-C1'-N1	7.87	122.46	107.68
2	4-I	350[D]	UMP	O4'-C1'-N1	7.86	122.45	107.68
2	3-O	650[C]	UMP	O4'-C1'-N1	7.70	122.15	107.68
2	1-N	600[A]	UMP	O4'-C1'-N1	7.70	122.14	107.68
2	1-K	450[A]	UMP	O4'-C1'-N1	7.69	122.13	107.68
2	2-K	450[B]	UMP	O4'-C1'-N1	7.69	122.12	107.68
2	4-K	450[D]	UMP	O4'-C1'-N1	7.66	122.08	107.68
2	4-N	600[D]	UMP	O4'-C1'-N1	7.66	122.08	107.68
2	3-N	600[C]	UMP	O4'-C1'-N1	7.66	122.07	107.68
2	2-N	600[B]	UMP	O4'-C1'-N1	7.64	122.04	107.68
2	3-K	450[C]	UMP	O4'-C1'-N1	7.63	122.02	107.68
2	1-J	400[A]	UMP	O4'-C1'-N1	7.56	121.89	107.68
2	2-J	400[B]	UMP	O4'-C1'-N1	7.54	121.84	107.68
2	1-O	650[A]	UMP	O4'-C1'-N1	7.53	121.84	107.68
2	3-J	400[C]	UMP	O4'-C1'-N1	7.51	121.78	107.68
2	4-J	400[D]	UMP	O4'-C1'-N1	7.47	121.72	107.68
2	1-L	500[A]	UMP	O4'-C1'-N1	7.46	121.69	107.68
2	2-O	650[B]	UMP	O4'-C1'-N1	7.45	121.68	107.68
2	3-L	500[C]	UMP	O4'-C1'-N1	7.44	121.66	107.68
2	2-L	500[B]	UMP	O4'-C1'-N1	7.44	121.66	107.68
2	4-L	500[D]	UMP	O4'-C1'-N1	7.41	121.60	107.68
2	4-B	400[D]	UMP	C5-C6-N1	-7.33	112.91	121.21
2	1-B	400[A]	UMP	C5-C6-N1	-7.33	112.91	121.21
2	2-B	400[B]	UMP	C5-C6-N1	-7.33	112.91	121.21
2	3-B	400[C]	UMP	C5-C6-N1	-7.33	112.91	121.21
2	4-M	550[D]	UMP	O4'-C1'-N1	7.31	121.41	107.68
2	3-M	550[C]	UMP	O4'-C1'-N1	7.29	121.39	107.68

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	3-P	700[C]	UMP	O4'-C1'-N1	7.26	121.32	107.68
2	1-P	700[A]	UMP	O4'-C1'-N1	7.23	121.26	107.68
2	1-O	650[A]	UMP	C5-C6-N1	-7.22	113.04	121.21
2	2-O	650[B]	UMP	C5-C6-N1	-7.21	113.05	121.21
2	2-M	550[B]	UMP	O4'-C1'-N1	7.21	121.23	107.68
2	4-P	700[D]	UMP	O4'-C1'-N1	7.20	121.20	107.68
2	2-P	700[B]	UMP	O4'-C1'-N1	7.20	121.21	107.68
2	1-M	550[A]	UMP	O4'-C1'-N1	7.19	121.20	107.68
2	4-O	650[D]	UMP	O4'-C1'-N1	7.18	121.17	107.68
3	2-E	2551[B]	CB3	C4-N3-C2	7.09	124.57	116.91
3	1-E	2551[A]	CB3	C4-N3-C2	7.09	124.57	116.91
3	4-E	2551[D]	CB3	C4-N3-C2	7.09	124.57	116.91
3	3-E	2551[C]	CB3	C4-N3-C2	7.09	124.57	116.91
2	3-O	650[C]	UMP	C5-C6-N1	-7.00	113.30	121.21
2	4-O	650[D]	UMP	C5-C6-N1	-6.95	113.34	121.21
3	4-H	2701[D]	CB3	C4-N3-C2	6.95	124.42	116.91
3	3-H	2701[C]	CB3	C4-N3-C2	6.95	124.42	116.91
3	2-H	2701[B]	CB3	C4-N3-C2	6.95	124.42	116.91
3	1-H	2701[A]	CB3	C4-N3-C2	6.95	124.42	116.91
2	1-L	500[A]	UMP	C5-C6-N1	-6.81	113.51	121.21
2	3-M	550[C]	UMP	C5-C6-N1	-6.63	113.71	121.21
2	4-L	500[D]	UMP	C5-C6-N1	-6.59	113.76	121.21
2	1-M	550[A]	UMP	C5-C6-N1	-6.57	113.78	121.21
2	2-M	550[B]	UMP	C5-C6-N1	-6.56	113.79	121.21
2	3-L	500[C]	UMP	C5-C6-N1	-6.55	113.81	121.21
2	2-L	500[B]	UMP	C5-C6-N1	-6.49	113.86	121.21
2	3-N	600[C]	UMP	C5-C6-N1	-6.46	113.91	121.21
2	4-M	550[D]	UMP	C5-C6-N1	-6.43	113.94	121.21
2	1-N	600[A]	UMP	C5-C6-N1	-6.30	114.08	121.21
3	4-H	2701[D]	CB3	C5-C4A-C8A	6.30	122.81	118.25
3	3-H	2701[C]	CB3	C5-C4A-C8A	6.30	122.81	118.25
3	2-H	2701[B]	CB3	C5-C4A-C8A	6.30	122.81	118.25
3	1-H	2701[A]	CB3	C5-C4A-C8A	6.30	122.81	118.25
2	4-N	600[D]	UMP	C5-C6-N1	-6.29	114.09	121.21
2	2-N	600[B]	UMP	C5-C6-N1	-6.22	114.17	121.21
2	1-P	700[A]	UMP	C5-C6-N1	-6.19	114.21	121.21
2	4-K	450[D]	UMP	C5-C6-N1	-6.16	114.24	121.21
2	4-E	550[D]	UMP	N3-C2-N1	6.10	121.07	115.97
2	2-E	550[B]	UMP	N3-C2-N1	6.10	121.07	115.97
2	1-E	550[A]	UMP	N3-C2-N1	6.10	121.07	115.97
2	3-E	550[C]	UMP	N3-C2-N1	6.10	121.07	115.97
2	2-F	600[B]	UMP	C5-C6-N1	-6.06	114.35	121.21

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	3-F	600[C]	UMP	C5-C6-N1	-6.06	114.35	121.21
2	1-F	600[A]	UMP	C5-C6-N1	-6.06	114.35	121.21
2	4-F	600[D]	UMP	C5-C6-N1	-6.06	114.35	121.21
2	1-K	450[A]	UMP	C5-C6-N1	-6.05	114.37	121.21
2	3-K	450[C]	UMP	C5-C6-N1	-6.05	114.37	121.21
2	2-K	450[B]	UMP	C5-C6-N1	-6.04	114.37	121.21
2	4-P	700[D]	UMP	C5-C6-N1	-5.99	114.43	121.21
3	4-H	2701[D]	CB3	NA2-C2-N1	5.96	124.42	117.86
3	3-H	2701[C]	CB3	NA2-C2-N1	5.96	124.42	117.86
3	2-H	2701[B]	CB3	NA2-C2-N1	5.96	124.42	117.86
3	1-H	2701[A]	CB3	NA2-C2-N1	5.96	124.42	117.86
2	2-P	700[B]	UMP	C5-C6-N1	-5.93	114.50	121.21
2	3-P	700[C]	UMP	C5-C6-N1	-5.90	114.53	121.21
3	2-E	2551[B]	CB3	C8-C8A-C4A	-5.90	118.12	121.72
3	1-E	2551[A]	CB3	C8-C8A-C4A	-5.90	118.12	121.72
3	4-E	2551[D]	CB3	C8-C8A-C4A	-5.90	118.12	121.72
3	3-E	2551[C]	CB3	C8-C8A-C4A	-5.90	118.12	121.72
2	1-I	350[A]	UMP	C5-C6-N1	-5.89	114.55	121.21
2	1-J	400[A]	UMP	C5-C6-N1	-5.77	114.68	121.21
2	4-I	350[D]	UMP	C5-C6-N1	-5.73	114.72	121.21
2	3-J	400[C]	UMP	C5-C6-N1	-5.71	114.75	121.21
2	2-J	400[B]	UMP	C5-C6-N1	-5.62	114.85	121.21
3	1-A	2351[A]	CB3	C5-C4A-C8A	5.58	122.29	118.25
3	2-A	2351[B]	CB3	C5-C4A-C8A	5.58	122.29	118.25
3	3-A	2351[C]	CB3	C5-C4A-C8A	5.58	122.29	118.25
3	4-A	2351[D]	CB3	C5-C4A-C8A	5.58	122.29	118.25
3	2-B	2401[B]	CB3	CP2-CP1-N10	-5.58	107.65	112.90
3	3-B	2401[C]	CB3	CP2-CP1-N10	-5.58	107.65	112.90
3	1-B	2401[A]	CB3	CP2-CP1-N10	-5.58	107.65	112.90
3	4-B	2401[D]	CB3	CP2-CP1-N10	-5.58	107.65	112.90
2	2-I	350[B]	UMP	C5-C6-N1	-5.56	114.92	121.21
2	3-I	350[C]	UMP	C5-C6-N1	-5.55	114.93	121.21
2	4-J	400[D]	UMP	C5-C6-N1	-5.50	114.99	121.21
3	2-E	2551[B]	CB3	CB-CA-N	5.42	121.15	110.83
3	1-E	2551[A]	CB3	CB-CA-N	5.42	121.15	110.83
3	4-E	2551[D]	CB3	CB-CA-N	5.42	121.15	110.83
3	3-E	2551[C]	CB3	CB-CA-N	5.42	121.15	110.83
3	2-C	2451[B]	CB3	C4-N3-C2	5.36	122.71	116.91
3	3-C	2451[C]	CB3	C4-N3-C2	5.36	122.71	116.91
3	1-C	2451[A]	CB3	C4-N3-C2	5.36	122.71	116.91
3	4-C	2451[D]	CB3	C4-N3-C2	5.36	122.71	116.91
3	1-A	2351[A]	CB3	NA2-C2-N1	5.29	123.68	117.86

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	2-A	2351[B]	CB3	NA2-C2-N1	5.29	123.68	117.86
3	3-A	2351[C]	CB3	NA2-C2-N1	5.29	123.68	117.86
3	4-A	2351[D]	CB3	NA2-C2-N1	5.29	123.68	117.86
3	1-A	2351[A]	CB3	C8-C8A-C4A	-5.28	118.50	121.72
3	2-A	2351[B]	CB3	C8-C8A-C4A	-5.28	118.50	121.72
3	3-A	2351[C]	CB3	C8-C8A-C4A	-5.28	118.50	121.72
3	4-A	2351[D]	CB3	C8-C8A-C4A	-5.28	118.50	121.72
3	1-F	2601[A]	CB3	C2-N1-C8A	4.95	124.45	120.24
3	3-F	2601[C]	CB3	C2-N1-C8A	4.95	124.45	120.24
3	4-F	2601[D]	CB3	C2-N1-C8A	4.95	124.45	120.24
3	2-F	2601[B]	CB3	C2-N1-C8A	4.95	124.45	120.24
3	1-F	2601[A]	CB3	C4-N3-C2	4.81	122.11	116.91
3	3-F	2601[C]	CB3	C4-N3-C2	4.81	122.11	116.91
3	4-F	2601[D]	CB3	C4-N3-C2	4.81	122.11	116.91
3	2-F	2601[B]	CB3	C4-N3-C2	4.81	122.11	116.91
3	2-E	2551[B]	CB3	NA2-C2-N1	4.76	123.10	117.86
3	1-E	2551[A]	CB3	NA2-C2-N1	4.76	123.10	117.86
3	4-E	2551[D]	CB3	NA2-C2-N1	4.76	123.10	117.86
3	3-E	2551[C]	CB3	NA2-C2-N1	4.76	123.10	117.86
3	4-H	2701[D]	CB3	C2-N1-C8A	4.75	124.28	120.24
3	3-H	2701[C]	CB3	C2-N1-C8A	4.75	124.28	120.24
3	2-H	2701[B]	CB3	C2-N1-C8A	4.75	124.28	120.24
3	1-H	2701[A]	CB3	C2-N1-C8A	4.75	124.28	120.24
2	4-C	450[D]	UMP	N3-C2-N1	4.72	119.91	115.97
2	2-C	450[B]	UMP	N3-C2-N1	4.72	119.91	115.97
2	1-C	450[A]	UMP	N3-C2-N1	4.72	119.91	115.97
2	3-C	450[C]	UMP	N3-C2-N1	4.72	119.91	115.97
3	2-B	2401[B]	CB3	C5-C4A-C8A	4.69	121.64	118.25
3	3-B	2401[C]	CB3	C5-C4A-C8A	4.69	121.64	118.25
3	1-B	2401[A]	CB3	C5-C4A-C8A	4.69	121.64	118.25
3	4-B	2401[D]	CB3	C5-C4A-C8A	4.69	121.64	118.25
3	1-F	2601[A]	CB3	C5-C4A-C8A	4.68	121.64	118.25
3	3-F	2601[C]	CB3	C5-C4A-C8A	4.68	121.64	118.25
3	4-F	2601[D]	CB3	C5-C4A-C8A	4.68	121.64	118.25
3	2-F	2601[B]	CB3	C5-C4A-C8A	4.68	121.64	118.25
3	4-H	2701[D]	CB3	N1-C2-N3	-4.67	115.25	121.75
3	3-H	2701[C]	CB3	N1-C2-N3	-4.67	115.25	121.75
3	2-H	2701[B]	CB3	N1-C2-N3	-4.67	115.25	121.75
3	1-H	2701[A]	CB3	N1-C2-N3	-4.67	115.25	121.75
2	3-H	700[C]	UMP	N3-C2-N1	4.53	119.76	115.97
2	4-H	700[D]	UMP	N3-C2-N1	4.53	119.76	115.97
2	1-H	700[A]	UMP	N3-C2-N1	4.53	119.76	115.97

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	2-H	700[B]	UMP	N3-C2-N1	4.53	119.76	115.97
3	3-D	2501[C]	CB3	C5-C4A-C8A	4.52	121.53	118.25
3	1-D	2501[A]	CB3	C5-C4A-C8A	4.52	121.53	118.25
3	4-D	2501[D]	CB3	C5-C4A-C8A	4.52	121.53	118.25
3	2-D	2501[B]	CB3	C5-C4A-C8A	4.52	121.53	118.25
3	2-C	2451[B]	CB3	C9-N10-C14	4.49	128.60	120.71
3	3-C	2451[C]	CB3	C9-N10-C14	4.49	128.60	120.71
3	1-C	2451[A]	CB3	C9-N10-C14	4.49	128.60	120.71
3	4-C	2451[D]	CB3	C9-N10-C14	4.49	128.60	120.71
2	2-A	350[B]	UMP	N3-C2-N1	4.43	119.67	115.97
2	4-A	350[D]	UMP	N3-C2-N1	4.43	119.67	115.97
2	3-A	350[C]	UMP	N3-C2-N1	4.43	119.67	115.97
2	1-A	350[A]	UMP	N3-C2-N1	4.43	119.67	115.97
3	4-H	2701[D]	CB3	CP2-CP1-N10	-4.40	108.76	112.90
3	3-H	2701[C]	CB3	CP2-CP1-N10	-4.40	108.76	112.90
3	2-H	2701[B]	CB3	CP2-CP1-N10	-4.40	108.76	112.90
3	1-H	2701[A]	CB3	CP2-CP1-N10	-4.40	108.76	112.90
3	2-E	2551[B]	CB3	C9-N10-C14	4.39	128.43	120.71
3	1-E	2551[A]	CB3	C9-N10-C14	4.39	128.43	120.71
3	4-E	2551[D]	CB3	C9-N10-C14	4.39	128.43	120.71
3	3-E	2551[C]	CB3	C9-N10-C14	4.39	128.43	120.71
3	3-D	2501[C]	CB3	C8-C8A-C4A	-4.39	119.04	121.72
3	1-D	2501[A]	CB3	C8-C8A-C4A	-4.39	119.04	121.72
3	4-D	2501[D]	CB3	C8-C8A-C4A	-4.39	119.04	121.72
3	2-D	2501[B]	CB3	C8-C8A-C4A	-4.39	119.04	121.72
3	2-C	2451[B]	CB3	CP2-CP1-N10	-4.39	108.78	112.90
3	3-C	2451[C]	CB3	CP2-CP1-N10	-4.39	108.78	112.90
3	1-C	2451[A]	CB3	CP2-CP1-N10	-4.39	108.78	112.90
3	4-C	2451[D]	CB3	CP2-CP1-N10	-4.39	108.78	112.90
3	1-F	2601[A]	CB3	NA2-C2-N1	4.27	122.56	117.86
3	3-F	2601[C]	CB3	NA2-C2-N1	4.27	122.56	117.86
3	4-F	2601[D]	CB3	NA2-C2-N1	4.27	122.56	117.86
3	2-F	2601[B]	CB3	NA2-C2-N1	4.27	122.56	117.86
3	2-B	2401[B]	CB3	C8-C8A-C4A	-4.25	119.13	121.72
3	3-B	2401[C]	CB3	C8-C8A-C4A	-4.25	119.13	121.72
3	1-B	2401[A]	CB3	C8-C8A-C4A	-4.25	119.13	121.72
3	4-B	2401[D]	CB3	C8-C8A-C4A	-4.25	119.13	121.72
3	2-B	2401[B]	CB3	C6-C9-N10	4.20	120.71	114.44
3	3-B	2401[C]	CB3	C6-C9-N10	4.20	120.71	114.44
3	1-B	2401[A]	CB3	C6-C9-N10	4.20	120.71	114.44
3	4-B	2401[D]	CB3	C6-C9-N10	4.20	120.71	114.44
3	2-B	2401[B]	CB3	C4-N3-C2	4.11	121.35	116.91

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	2-G	650[B]	UMP	O5'-C5'-C4'	-4.11	93.85	108.94
3	3-B	2401[C]	CB3	C4-N3-C2	4.11	121.35	116.91
3	1-B	2401[A]	CB3	C4-N3-C2	4.11	121.35	116.91
3	4-B	2401[D]	CB3	C4-N3-C2	4.11	121.35	116.91
2	1-G	650[A]	UMP	O5'-C5'-C4'	-4.11	93.85	108.94
2	3-G	650[C]	UMP	O5'-C5'-C4'	-4.11	93.85	108.94
2	4-G	650[D]	UMP	O5'-C5'-C4'	-4.11	93.85	108.94
3	1-A	2351[A]	CB3	C2-N1-C8A	4.08	123.71	120.24
3	2-B	2401[B]	CB3	C12-C13-C14	4.08	125.94	120.44
3	3-B	2401[C]	CB3	C12-C13-C14	4.08	125.94	120.44
3	1-B	2401[A]	CB3	C12-C13-C14	4.08	125.94	120.44
3	2-A	2351[B]	CB3	C2-N1-C8A	4.08	123.71	120.24
3	3-A	2351[C]	CB3	C2-N1-C8A	4.08	123.71	120.24
3	4-B	2401[D]	CB3	C12-C13-C14	4.08	125.94	120.44
3	4-A	2351[D]	CB3	C2-N1-C8A	4.08	123.71	120.24
3	2-E	2551[B]	CB3	C4A-C4-N3	-3.98	119.07	123.72
3	1-E	2551[A]	CB3	C4A-C4-N3	-3.98	119.07	123.72
3	4-E	2551[D]	CB3	C4A-C4-N3	-3.98	119.07	123.72
3	3-E	2551[C]	CB3	C4A-C4-N3	-3.98	119.07	123.72
3	2-B	2401[B]	CB3	C2-N1-C8A	3.95	123.60	120.24
3	3-B	2401[C]	CB3	C2-N1-C8A	3.95	123.60	120.24
3	1-B	2401[A]	CB3	C2-N1-C8A	3.95	123.60	120.24
3	4-B	2401[D]	CB3	C2-N1-C8A	3.95	123.60	120.24
2	4-E	550[D]	UMP	O4'-C1'-N1	3.90	115.00	107.68
2	2-E	550[B]	UMP	O4'-C1'-N1	3.90	115.00	107.68
2	1-E	550[A]	UMP	O4'-C1'-N1	3.90	115.00	107.68
2	3-E	550[C]	UMP	O4'-C1'-N1	3.90	115.00	107.68
3	1-A	2351[A]	CB3	C4-N3-C2	3.89	121.11	116.91
3	2-A	2351[B]	CB3	C4-N3-C2	3.89	121.11	116.91
3	3-A	2351[C]	CB3	C4-N3-C2	3.89	121.11	116.91
3	4-A	2351[D]	CB3	C4-N3-C2	3.89	121.11	116.91
2	2-F	600[B]	UMP	N3-C2-N1	3.88	119.21	115.97
2	3-F	600[C]	UMP	N3-C2-N1	3.88	119.21	115.97
2	1-F	600[A]	UMP	N3-C2-N1	3.88	119.21	115.97
2	4-F	600[D]	UMP	N3-C2-N1	3.88	119.21	115.97
3	3-G	2651[C]	CB3	C4-N3-C2	3.80	121.01	116.91
3	4-G	2651[D]	CB3	C4-N3-C2	3.80	121.01	116.91
3	1-G	2651[A]	CB3	C4-N3-C2	3.80	121.01	116.91
3	2-G	2651[B]	CB3	C4-N3-C2	3.80	121.01	116.91
2	2-G	650[B]	UMP	N3-C2-N1	3.75	119.10	115.97
2	1-G	650[A]	UMP	N3-C2-N1	3.75	119.10	115.97
2	3-G	650[C]	UMP	N3-C2-N1	3.75	119.10	115.97

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	4-G	650[D]	UMP	N3-C2-N1	3.75	119.10	115.97
3	3-G	2651[C]	CB3	NA2-C2-N1	3.73	121.97	117.86
3	4-G	2651[D]	CB3	NA2-C2-N1	3.73	121.97	117.86
3	1-G	2651[A]	CB3	NA2-C2-N1	3.73	121.97	117.86
3	2-G	2651[B]	CB3	NA2-C2-N1	3.73	121.97	117.86
3	1-F	2601[A]	CB3	CP2-CP1-N10	-3.73	109.39	112.90
3	3-F	2601[C]	CB3	CP2-CP1-N10	-3.73	109.39	112.90
3	4-F	2601[D]	CB3	CP2-CP1-N10	-3.73	109.39	112.90
3	2-F	2601[B]	CB3	CP2-CP1-N10	-3.73	109.39	112.90
2	4-E	550[D]	UMP	O5'-C5'-C4'	-3.67	95.47	108.94
2	2-E	550[B]	UMP	O5'-C5'-C4'	-3.67	95.47	108.94
2	1-E	550[A]	UMP	O5'-C5'-C4'	-3.67	95.47	108.94
2	3-E	550[C]	UMP	O5'-C5'-C4'	-3.67	95.47	108.94
3	1-F	2601[A]	CB3	N1-C2-N3	-3.66	116.66	121.75
3	3-F	2601[C]	CB3	N1-C2-N3	-3.66	116.66	121.75
3	4-F	2601[D]	CB3	N1-C2-N3	-3.66	116.66	121.75
3	2-F	2601[B]	CB3	N1-C2-N3	-3.66	116.66	121.75
3	3-G	2651[C]	CB3	C5-C4A-C8A	3.66	120.90	118.25
3	4-G	2651[D]	CB3	C5-C4A-C8A	3.66	120.90	118.25
3	1-G	2651[A]	CB3	C5-C4A-C8A	3.66	120.90	118.25
3	2-G	2651[B]	CB3	C5-C4A-C8A	3.66	120.90	118.25
3	2-C	2451[B]	CB3	CP1-CP2-CP3	-3.66	173.42	177.80
3	3-C	2451[C]	CB3	CP1-CP2-CP3	-3.66	173.42	177.80
3	1-C	2451[A]	CB3	CP1-CP2-CP3	-3.66	173.42	177.80
3	4-C	2451[D]	CB3	CP1-CP2-CP3	-3.66	173.42	177.80
2	1-J	400[A]	UMP	C6-N1-C2	3.65	124.59	119.51
3	3-G	2651[C]	CB3	C13-C12-C11	-3.63	116.42	120.76
3	4-G	2651[D]	CB3	C13-C12-C11	-3.63	116.42	120.76
3	1-G	2651[A]	CB3	C13-C12-C11	-3.63	116.42	120.76
3	2-G	2651[B]	CB3	C13-C12-C11	-3.63	116.42	120.76
3	3-D	2501[C]	CB3	NA2-C2-N1	3.62	121.85	117.86
3	1-D	2501[A]	CB3	NA2-C2-N1	3.62	121.85	117.86
3	4-D	2501[D]	CB3	NA2-C2-N1	3.62	121.85	117.86
3	2-D	2501[B]	CB3	NA2-C2-N1	3.62	121.85	117.86
3	2-C	2451[B]	CB3	C5-C4A-C8A	3.58	120.84	118.25
3	3-C	2451[C]	CB3	C5-C4A-C8A	3.58	120.84	118.25
3	1-C	2451[A]	CB3	C5-C4A-C8A	3.58	120.84	118.25
3	4-C	2451[D]	CB3	C5-C4A-C8A	3.58	120.84	118.25
3	2-B	2401[B]	CB3	NA2-C2-N1	3.55	121.77	117.86
3	3-B	2401[C]	CB3	NA2-C2-N1	3.55	121.77	117.86
3	1-B	2401[A]	CB3	NA2-C2-N1	3.55	121.77	117.86
3	4-B	2401[D]	CB3	NA2-C2-N1	3.55	121.77	117.86

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	3-D	2501[C]	CB3	CP1-N10-C14	3.55	125.28	118.63
3	1-D	2501[A]	CB3	CP1-N10-C14	3.55	125.28	118.63
3	4-D	2501[D]	CB3	CP1-N10-C14	3.55	125.28	118.63
3	2-D	2501[B]	CB3	CP1-N10-C14	3.55	125.28	118.63
2	1-P	700[A]	UMP	C6-N1-C2	3.53	124.43	119.51
2	2-P	700[B]	UMP	C6-N1-C2	3.50	124.39	119.51
2	4-I	350[D]	UMP	C6-N1-C2	3.50	124.38	119.51
2	2-J	400[B]	UMP	C6-N1-C2	3.48	124.35	119.51
2	3-J	400[C]	UMP	C6-N1-C2	3.47	124.34	119.51
2	1-I	350[A]	UMP	C6-N1-C2	3.46	124.33	119.51
3	2-B	2401[B]	CB3	CB-CA-N	-3.45	104.25	110.83
3	3-B	2401[C]	CB3	CB-CA-N	-3.45	104.25	110.83
3	1-B	2401[A]	CB3	CB-CA-N	-3.45	104.25	110.83
3	4-B	2401[D]	CB3	CB-CA-N	-3.45	104.25	110.83
3	2-E	2551[B]	CB3	C5-C4A-C8A	3.43	120.73	118.25
3	1-E	2551[A]	CB3	C5-C4A-C8A	3.43	120.73	118.25
3	4-E	2551[D]	CB3	C5-C4A-C8A	3.43	120.73	118.25
3	3-E	2551[C]	CB3	C5-C4A-C8A	3.43	120.73	118.25
2	4-P	700[D]	UMP	C6-N1-C2	3.42	124.28	119.51
2	2-I	350[B]	UMP	C6-N1-C2	3.42	124.27	119.51
2	3-P	700[C]	UMP	C6-N1-C2	3.41	124.26	119.51
2	3-I	350[C]	UMP	C6-N1-C2	3.41	124.25	119.51
2	4-J	400[D]	UMP	C6-N1-C2	3.39	124.24	119.51
3	2-E	2551[B]	CB3	CP1-CP2-CP3	-3.39	173.74	177.80
3	1-E	2551[A]	CB3	CP1-CP2-CP3	-3.39	173.74	177.80
3	4-E	2551[D]	CB3	CP1-CP2-CP3	-3.39	173.74	177.80
3	3-E	2551[C]	CB3	CP1-CP2-CP3	-3.39	173.74	177.80
2	4-B	400[D]	UMP	N3-C2-N1	3.39	118.80	115.97
2	1-B	400[A]	UMP	N3-C2-N1	3.39	118.80	115.97
2	2-B	400[B]	UMP	N3-C2-N1	3.39	118.80	115.97
2	3-B	400[C]	UMP	N3-C2-N1	3.39	118.80	115.97
3	3-D	2501[C]	CB3	CP1-N10-C9	-3.30	109.93	115.68
3	1-D	2501[A]	CB3	CP1-N10-C9	-3.30	109.93	115.68
3	4-D	2501[D]	CB3	CP1-N10-C9	-3.30	109.93	115.68
3	2-D	2501[B]	CB3	CP1-N10-C9	-3.30	109.93	115.68
3	4-H	2701[D]	CB3	C4A-C4-N3	-3.26	119.90	123.72
3	3-H	2701[C]	CB3	C4A-C4-N3	-3.26	119.90	123.72
3	2-H	2701[B]	CB3	C4A-C4-N3	-3.26	119.90	123.72
3	1-H	2701[A]	CB3	C4A-C4-N3	-3.26	119.90	123.72
2	1-K	450[A]	UMP	C6-N1-C2	3.23	124.01	119.51
3	3-G	2651[C]	CB3	C9-N10-C14	3.17	126.29	120.71
3	4-G	2651[D]	CB3	C9-N10-C14	3.17	126.29	120.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	1-G	2651[A]	CB3	C9-N10-C14	3.17	126.29	120.71
3	2-G	2651[B]	CB3	C9-N10-C14	3.17	126.29	120.71
2	2-K	450[B]	UMP	C6-N1-C2	3.15	123.90	119.51
2	3-K	450[C]	UMP	C6-N1-C2	3.14	123.89	119.51
2	2-A	350[B]	UMP	C6-N1-C2	3.13	123.88	119.51
2	4-A	350[D]	UMP	C6-N1-C2	3.13	123.88	119.51
2	3-A	350[C]	UMP	C6-N1-C2	3.13	123.88	119.51
3	3-D	2501[C]	CB3	C13-C12-C11	-3.13	117.02	120.76
3	1-D	2501[A]	CB3	C13-C12-C11	-3.13	117.02	120.76
3	4-D	2501[D]	CB3	C13-C12-C11	-3.13	117.02	120.76
2	1-A	350[A]	UMP	C6-N1-C2	3.13	123.88	119.51
3	2-D	2501[B]	CB3	C13-C12-C11	-3.13	117.02	120.76
3	2-C	2451[B]	CB3	N1-C2-N3	-3.12	117.41	121.75
3	3-C	2451[C]	CB3	N1-C2-N3	-3.12	117.41	121.75
3	1-C	2451[A]	CB3	N1-C2-N3	-3.12	117.41	121.75
3	4-C	2451[D]	CB3	N1-C2-N3	-3.12	117.41	121.75
3	2-C	2451[B]	CB3	C8-C8A-C4A	-3.12	119.82	121.72
3	3-C	2451[C]	CB3	C8-C8A-C4A	-3.12	119.82	121.72
3	1-C	2451[A]	CB3	C8-C8A-C4A	-3.12	119.82	121.72
3	4-C	2451[D]	CB3	C8-C8A-C4A	-3.12	119.82	121.72
3	2-C	2451[B]	CB3	C2-N1-C8A	3.11	122.89	120.24
3	3-C	2451[C]	CB3	C2-N1-C8A	3.11	122.89	120.24
3	1-C	2451[A]	CB3	C2-N1-C8A	3.11	122.89	120.24
3	4-C	2451[D]	CB3	C2-N1-C8A	3.11	122.89	120.24
2	4-K	450[D]	UMP	C6-N1-C2	3.09	123.82	119.51
2	2-G	650[B]	UMP	C6-N1-C2	3.09	123.82	119.51
2	1-G	650[A]	UMP	C6-N1-C2	3.09	123.82	119.51
2	3-G	650[C]	UMP	C6-N1-C2	3.09	123.82	119.51
2	4-G	650[D]	UMP	C6-N1-C2	3.09	123.82	119.51
3	1-A	2351[A]	CB3	N1-C2-N3	-3.08	117.47	121.75
3	2-A	2351[B]	CB3	N1-C2-N3	-3.08	117.47	121.75
3	3-A	2351[C]	CB3	N1-C2-N3	-3.08	117.47	121.75
3	4-A	2351[D]	CB3	N1-C2-N3	-3.08	117.47	121.75
3	2-B	2401[B]	CB3	C13-C12-C11	-3.08	117.08	120.76
3	3-B	2401[C]	CB3	C13-C12-C11	-3.08	117.08	120.76
3	1-B	2401[A]	CB3	C13-C12-C11	-3.08	117.08	120.76
3	4-B	2401[D]	CB3	C13-C12-C11	-3.08	117.08	120.76
3	1-A	2351[A]	CB3	C8-C8A-N1	3.08	123.68	120.38
3	2-A	2351[B]	CB3	C8-C8A-N1	3.08	123.68	120.38
3	3-A	2351[C]	CB3	C8-C8A-N1	3.08	123.68	120.38
3	4-A	2351[D]	CB3	C8-C8A-N1	3.08	123.68	120.38
3	4-H	2701[D]	CB3	CA-N-C	-3.02	115.05	121.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	3-H	2701[C]	CB3	CA-N-C	-3.02	115.05	121.80
3	2-H	2701[B]	CB3	CA-N-C	-3.02	115.05	121.80
3	1-H	2701[A]	CB3	CA-N-C	-3.02	115.05	121.80
3	3-G	2651[C]	CB3	C16-C11-C12	3.02	122.95	118.63
3	4-G	2651[D]	CB3	C16-C11-C12	3.02	122.95	118.63
3	1-G	2651[A]	CB3	C16-C11-C12	3.02	122.95	118.63
3	2-G	2651[B]	CB3	C16-C11-C12	3.02	122.95	118.63
2	1-L	500[A]	UMP	C6-N1-C2	3.01	123.70	119.51
3	2-B	2401[B]	CB3	CP1-CP2-CP3	-2.99	174.22	177.80
3	3-B	2401[C]	CB3	CP1-CP2-CP3	-2.99	174.22	177.80
3	1-B	2401[A]	CB3	CP1-CP2-CP3	-2.99	174.22	177.80
3	4-B	2401[D]	CB3	CP1-CP2-CP3	-2.99	174.22	177.80
3	2-E	2551[B]	CB3	N1-C2-N3	-2.96	117.63	121.75
3	1-E	2551[A]	CB3	N1-C2-N3	-2.96	117.63	121.75
3	4-E	2551[D]	CB3	N1-C2-N3	-2.96	117.63	121.75
3	3-E	2551[C]	CB3	N1-C2-N3	-2.96	117.63	121.75
2	3-L	500[C]	UMP	C6-N1-C2	2.96	123.63	119.51
2	2-L	500[B]	UMP	C6-N1-C2	2.95	123.63	119.51
3	1-F	2601[A]	CB3	C4A-C4-N3	-2.94	120.28	123.72
3	3-F	2601[C]	CB3	C4A-C4-N3	-2.94	120.28	123.72
3	4-F	2601[D]	CB3	C4A-C4-N3	-2.94	120.28	123.72
3	2-F	2601[B]	CB3	C4A-C4-N3	-2.94	120.28	123.72
2	4-C	450[D]	UMP	O4'-C4'-C3'	-2.91	98.27	105.66
2	2-C	450[B]	UMP	O4'-C4'-C3'	-2.91	98.27	105.66
2	1-C	450[A]	UMP	O4'-C4'-C3'	-2.91	98.27	105.66
2	3-C	450[C]	UMP	O4'-C4'-C3'	-2.91	98.27	105.66
3	1-F	2601[A]	CB3	C16-C11-C12	2.88	122.75	118.63
3	3-F	2601[C]	CB3	C16-C11-C12	2.88	122.75	118.63
3	4-F	2601[D]	CB3	C16-C11-C12	2.88	122.75	118.63
3	2-F	2601[B]	CB3	C16-C11-C12	2.88	122.75	118.63
2	4-L	500[D]	UMP	C6-N1-C2	2.87	123.52	119.51
3	2-E	2551[B]	CB3	C12-C13-C14	2.85	124.27	120.44
3	1-E	2551[A]	CB3	C12-C13-C14	2.85	124.27	120.44
3	4-E	2551[D]	CB3	C12-C13-C14	2.85	124.27	120.44
3	3-E	2551[C]	CB3	C12-C13-C14	2.85	124.27	120.44
2	4-C	450[D]	UMP	O4'-C1'-C2'	-2.85	100.64	106.25
2	2-C	450[B]	UMP	O4'-C1'-C2'	-2.85	100.64	106.25
2	1-C	450[A]	UMP	O4'-C1'-C2'	-2.85	100.64	106.25
2	3-C	450[C]	UMP	O4'-C1'-C2'	-2.85	100.64	106.25
3	2-E	2551[B]	CB3	CP2-CP1-N10	-2.84	110.23	112.90
3	1-E	2551[A]	CB3	CP2-CP1-N10	-2.84	110.23	112.90
3	4-E	2551[D]	CB3	CP2-CP1-N10	-2.84	110.23	112.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	3-E	2551[C]	CB3	CP2-CP1-N10	-2.84	110.23	112.90
2	3-N	600[C]	UMP	C6-N1-C2	2.83	123.45	119.51
3	4-H	2701[D]	CB3	C13-C12-C11	-2.82	117.39	120.76
3	3-H	2701[C]	CB3	C13-C12-C11	-2.82	117.39	120.76
3	2-H	2701[B]	CB3	C13-C12-C11	-2.82	117.39	120.76
3	1-H	2701[A]	CB3	C13-C12-C11	-2.82	117.39	120.76
2	1-N	600[A]	UMP	C6-N1-C2	2.82	123.44	119.51
2	4-L	500[D]	UMP	O4'-C4'-C3'	-2.81	98.54	105.66
3	2-B	2401[B]	CB3	N1-C2-N3	-2.81	117.84	121.75
3	3-B	2401[C]	CB3	N1-C2-N3	-2.81	117.84	121.75
3	1-B	2401[A]	CB3	N1-C2-N3	-2.81	117.84	121.75
3	4-B	2401[D]	CB3	N1-C2-N3	-2.81	117.84	121.75
2	2-N	600[B]	UMP	C6-N1-C2	2.80	123.42	119.51
2	4-N	600[D]	UMP	C6-N1-C2	2.80	123.42	119.51
2	4-M	550[D]	UMP	O4'-C4'-C3'	-2.79	98.58	105.66
2	2-F	600[B]	UMP	C4'-O4'-C1'	2.79	116.50	109.44
2	3-F	600[C]	UMP	C4'-O4'-C1'	2.79	116.50	109.44
2	1-F	600[A]	UMP	C4'-O4'-C1'	2.79	116.50	109.44
2	4-F	600[D]	UMP	C4'-O4'-C1'	2.79	116.50	109.44
2	3-L	500[C]	UMP	O4'-C4'-C3'	-2.78	98.60	105.66
2	1-M	550[A]	UMP	O4'-C4'-C3'	-2.78	98.62	105.66
2	3-M	550[C]	UMP	O4'-C4'-C3'	-2.77	98.63	105.66
2	2-M	550[B]	UMP	O4'-C4'-C3'	-2.77	98.64	105.66
2	2-K	450[B]	UMP	O4'-C4'-C3'	-2.77	98.64	105.66
3	3-D	2501[C]	CB3	C12-C13-C14	2.76	124.16	120.44
3	1-D	2501[A]	CB3	C12-C13-C14	2.76	124.16	120.44
3	4-D	2501[D]	CB3	C12-C13-C14	2.76	124.16	120.44
3	2-D	2501[B]	CB3	C12-C13-C14	2.76	124.16	120.44
2	4-C	450[D]	UMP	O4'-C1'-N1	2.75	112.84	107.68
2	2-C	450[B]	UMP	O4'-C1'-N1	2.75	112.84	107.68
2	1-C	450[A]	UMP	O4'-C1'-N1	2.75	112.84	107.68
2	3-C	450[C]	UMP	O4'-C1'-N1	2.75	112.84	107.68
2	2-L	500[B]	UMP	O4'-C4'-C3'	-2.75	98.70	105.66
2	1-I	350[A]	UMP	O4'-C4'-C3'	-2.74	98.71	105.66
2	1-L	500[A]	UMP	O4'-C4'-C3'	-2.74	98.72	105.66
2	3-O	650[C]	UMP	C6-N1-C2	2.73	123.32	119.51
2	1-K	450[A]	UMP	O4'-C4'-C3'	-2.73	98.74	105.66
2	4-K	450[D]	UMP	O4'-C4'-C3'	-2.72	98.76	105.66
3	1-A	2351[A]	CB3	C9-N10-C14	2.72	125.48	120.71
2	3-K	450[C]	UMP	O4'-C4'-C3'	-2.72	98.77	105.66
3	2-A	2351[B]	CB3	C9-N10-C14	2.72	125.48	120.71
3	3-A	2351[C]	CB3	C9-N10-C14	2.72	125.48	120.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	4-A	2351[D]	CB3	C9-N10-C14	2.72	125.48	120.71
2	3-J	400[C]	UMP	O4'-C4'-C3'	-2.71	98.78	105.66
2	3-I	350[C]	UMP	O4'-C4'-C3'	-2.71	98.78	105.66
3	2-C	2451[B]	CB3	C4A-C4-N3	-2.71	120.55	123.72
3	3-C	2451[C]	CB3	C4A-C4-N3	-2.71	120.55	123.72
3	1-C	2451[A]	CB3	C4A-C4-N3	-2.71	120.55	123.72
3	4-C	2451[D]	CB3	C4A-C4-N3	-2.71	120.55	123.72
2	1-O	650[A]	UMP	C6-N1-C2	2.70	123.28	119.51
2	1-J	400[A]	UMP	O4'-C4'-C3'	-2.69	98.85	105.66
2	3-P	700[C]	UMP	O4'-C4'-C3'	-2.68	98.86	105.66
3	3-D	2501[C]	CB3	CP2-CP1-N10	-2.68	110.38	112.90
3	1-D	2501[A]	CB3	CP2-CP1-N10	-2.68	110.38	112.90
3	4-D	2501[D]	CB3	CP2-CP1-N10	-2.68	110.38	112.90
2	4-I	350[D]	UMP	O4'-C4'-C3'	-2.68	98.86	105.66
3	2-D	2501[B]	CB3	CP2-CP1-N10	-2.68	110.38	112.90
2	4-P	700[D]	UMP	O4'-C4'-C3'	-2.66	98.91	105.66
2	1-P	700[A]	UMP	O4'-C4'-C3'	-2.65	98.93	105.66
2	2-J	400[B]	UMP	O4'-C4'-C3'	-2.65	98.94	105.66
2	2-I	350[B]	UMP	O4'-C4'-C3'	-2.65	98.94	105.66
2	2-O	650[B]	UMP	C6-N1-C2	2.64	123.19	119.51
2	1-N	600[A]	UMP	O4'-C4'-C3'	-2.64	98.97	105.66
2	1-O	650[A]	UMP	O4'-C4'-C3'	-2.64	98.97	105.66
3	1-A	2351[A]	CB3	CP2-CP1-N10	-2.63	110.42	112.90
3	2-A	2351[B]	CB3	CP2-CP1-N10	-2.63	110.42	112.90
3	3-A	2351[C]	CB3	CP2-CP1-N10	-2.63	110.42	112.90
3	4-A	2351[D]	CB3	CP2-CP1-N10	-2.63	110.42	112.90
2	3-M	550[C]	UMP	C6-N1-C2	2.63	123.17	119.51
2	2-N	600[B]	UMP	O4'-C4'-C3'	-2.62	99.01	105.66
2	3-N	600[C]	UMP	O4'-C4'-C3'	-2.62	99.02	105.66
2	4-E	550[D]	UMP	O4'-C4'-C3'	-2.62	99.02	105.66
2	2-E	550[B]	UMP	O4'-C4'-C3'	-2.62	99.02	105.66
2	1-E	550[A]	UMP	O4'-C4'-C3'	-2.62	99.02	105.66
2	3-E	550[C]	UMP	O4'-C4'-C3'	-2.62	99.02	105.66
2	2-F	600[B]	UMP	O4'-C4'-C3'	-2.61	99.03	105.66
2	3-F	600[C]	UMP	O4'-C4'-C3'	-2.61	99.03	105.66
2	1-F	600[A]	UMP	O4'-C4'-C3'	-2.61	99.03	105.66
3	1-F	2601[A]	CB3	C13-C12-C11	-2.61	117.64	120.76
3	3-F	2601[C]	CB3	C13-C12-C11	-2.61	117.64	120.76
2	4-F	600[D]	UMP	O4'-C4'-C3'	-2.61	99.03	105.66
3	4-F	2601[D]	CB3	C13-C12-C11	-2.61	117.64	120.76
3	2-F	2601[B]	CB3	C13-C12-C11	-2.61	117.64	120.76
2	4-J	400[D]	UMP	O4'-C4'-C3'	-2.61	99.04	105.66

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	3-G	2651[C]	CB3	C2-N1-C8A	2.61	122.46	120.24
3	4-G	2651[D]	CB3	C2-N1-C8A	2.61	122.46	120.24
3	1-G	2651[A]	CB3	C2-N1-C8A	2.61	122.46	120.24
3	2-G	2651[B]	CB3	C2-N1-C8A	2.61	122.46	120.24
2	2-M	550[B]	UMP	C6-N1-C2	2.61	123.15	119.51
2	2-P	700[B]	UMP	O4'-C4'-C3'	-2.61	99.05	105.66
2	4-N	600[D]	UMP	O4'-C4'-C3'	-2.60	99.06	105.66
2	3-D	500[C]	UMP	C6-N1-C2	2.59	123.12	119.51
2	2-D	500[B]	UMP	C6-N1-C2	2.59	123.12	119.51
2	4-D	500[D]	UMP	C6-N1-C2	2.59	123.12	119.51
3	1-F	2601[A]	CB3	CB-CA-CT	-2.59	105.14	110.71
3	3-F	2601[C]	CB3	CB-CA-CT	-2.59	105.14	110.71
3	4-F	2601[D]	CB3	CB-CA-CT	-2.59	105.14	110.71
2	1-D	500[A]	UMP	C6-N1-C2	2.59	123.12	119.51
3	2-F	2601[B]	CB3	CB-CA-CT	-2.59	105.14	110.71
2	4-C	450[D]	UMP	C4'-O4'-C1'	2.58	115.99	109.44
2	2-C	450[B]	UMP	C4'-O4'-C1'	2.58	115.99	109.44
2	1-C	450[A]	UMP	C4'-O4'-C1'	2.58	115.99	109.44
2	3-C	450[C]	UMP	C4'-O4'-C1'	2.58	115.99	109.44
2	2-O	650[B]	UMP	O4'-C4'-C3'	-2.58	99.13	105.66
2	1-M	550[A]	UMP	C6-N1-C2	2.57	123.09	119.51
2	4-M	550[D]	UMP	C6-N1-C2	2.51	123.01	119.51
3	2-E	2551[B]	CB3	C8-C8A-N1	2.50	123.06	120.38
3	1-E	2551[A]	CB3	C8-C8A-N1	2.50	123.06	120.38
3	4-E	2551[D]	CB3	C8-C8A-N1	2.50	123.06	120.38
3	3-E	2551[C]	CB3	C8-C8A-N1	2.50	123.06	120.38
3	1-F	2601[A]	CB3	C6-C9-N10	2.50	118.17	114.44
3	3-F	2601[C]	CB3	C6-C9-N10	2.50	118.17	114.44
3	4-F	2601[D]	CB3	C6-C9-N10	2.50	118.17	114.44
3	2-F	2601[B]	CB3	C6-C9-N10	2.50	118.17	114.44
2	3-O	650[C]	UMP	O4'-C4'-C3'	-2.49	99.34	105.66
3	1-F	2601[A]	CB3	CA-N-C	-2.49	116.24	121.80
3	3-F	2601[C]	CB3	CA-N-C	-2.49	116.24	121.80
3	4-F	2601[D]	CB3	CA-N-C	-2.49	116.24	121.80
3	2-F	2601[B]	CB3	CA-N-C	-2.49	116.24	121.80
2	4-O	650[D]	UMP	O4'-C4'-C3'	-2.48	99.36	105.66
3	3-D	2501[C]	CB3	C2-N1-C8A	2.47	122.34	120.24
3	1-D	2501[A]	CB3	C2-N1-C8A	2.47	122.34	120.24
3	4-D	2501[D]	CB3	C2-N1-C8A	2.47	122.34	120.24
3	2-D	2501[B]	CB3	C2-N1-C8A	2.47	122.34	120.24
3	4-H	2701[D]	CB3	CP1-N10-C14	2.46	123.23	118.63
3	3-H	2701[C]	CB3	CP1-N10-C14	2.46	123.23	118.63

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	2-H	2701[B]	CB3	CP1-N10-C14	2.46	123.23	118.63
3	1-H	2701[A]	CB3	CP1-N10-C14	2.46	123.23	118.63
3	1-A	2351[A]	CB3	CT-CA-N	-2.45	104.22	110.53
3	2-A	2351[B]	CB3	CT-CA-N	-2.45	104.22	110.53
3	3-A	2351[C]	CB3	CT-CA-N	-2.45	104.22	110.53
3	4-A	2351[D]	CB3	CT-CA-N	-2.45	104.22	110.53
2	4-O	650[D]	UMP	C6-N1-C2	2.43	122.90	119.51
3	2-B	2401[B]	CB3	C12-C11-C	-2.42	113.06	120.56
3	3-B	2401[C]	CB3	C12-C11-C	-2.42	113.06	120.56
3	1-B	2401[A]	CB3	C12-C11-C	-2.42	113.06	120.56
3	4-B	2401[D]	CB3	C12-C11-C	-2.42	113.06	120.56
3	4-H	2701[D]	CB3	C12-C13-C14	2.42	123.70	120.44
3	3-H	2701[C]	CB3	C12-C13-C14	2.42	123.70	120.44
3	2-H	2701[B]	CB3	C12-C13-C14	2.42	123.70	120.44
3	1-H	2701[A]	CB3	C12-C13-C14	2.42	123.70	120.44
3	3-G	2651[C]	CB3	C6-C9-N10	2.41	118.04	114.44
3	4-G	2651[D]	CB3	C6-C9-N10	2.41	118.04	114.44
3	1-G	2651[A]	CB3	C6-C9-N10	2.41	118.04	114.44
3	2-G	2651[B]	CB3	C6-C9-N10	2.41	118.04	114.44
3	1-A	2351[A]	CB3	C6-C9-N10	2.39	118.01	114.44
3	2-A	2351[B]	CB3	C6-C9-N10	2.39	118.01	114.44
3	3-A	2351[C]	CB3	C6-C9-N10	2.39	118.01	114.44
3	4-A	2351[D]	CB3	C6-C9-N10	2.39	118.01	114.44
3	3-D	2501[C]	CB3	C4-N3-C2	2.39	119.49	116.91
3	1-D	2501[A]	CB3	C4-N3-C2	2.39	119.49	116.91
3	4-D	2501[D]	CB3	C4-N3-C2	2.39	119.49	116.91
3	2-D	2501[B]	CB3	C4-N3-C2	2.39	119.49	116.91
3	2-E	2551[B]	CB3	C13-C12-C11	-2.35	117.95	120.76
3	1-E	2551[A]	CB3	C13-C12-C11	-2.35	117.95	120.76
3	4-E	2551[D]	CB3	C13-C12-C11	-2.35	117.95	120.76
3	3-E	2551[C]	CB3	C13-C12-C11	-2.35	117.95	120.76
2	3-D	500[C]	UMP	N3-C2-N1	2.34	117.93	115.97
2	2-D	500[B]	UMP	N3-C2-N1	2.34	117.93	115.97
2	4-D	500[D]	UMP	N3-C2-N1	2.34	117.93	115.97
2	1-D	500[A]	UMP	N3-C2-N1	2.34	117.93	115.97
2	4-E	550[D]	UMP	O4'-C1'-C2'	-2.33	101.65	106.25
2	2-E	550[B]	UMP	O4'-C1'-C2'	-2.33	101.65	106.25
2	1-E	550[A]	UMP	O4'-C1'-C2'	-2.33	101.65	106.25
2	3-E	550[C]	UMP	O4'-C1'-C2'	-2.33	101.65	106.25
2	2-G	650[B]	UMP	O4'-C4'-C3'	-2.33	99.76	105.66
3	4-H	2701[D]	CB3	C9-N10-C14	2.33	124.80	120.71
3	3-H	2701[C]	CB3	C9-N10-C14	2.33	124.80	120.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	2-H	2701[B]	CB3	C9-N10-C14	2.33	124.80	120.71
3	1-H	2701[A]	CB3	C9-N10-C14	2.33	124.80	120.71
2	1-G	650[A]	UMP	O4'-C4'-C3'	-2.33	99.76	105.66
2	3-G	650[C]	UMP	O4'-C4'-C3'	-2.33	99.76	105.66
2	4-G	650[D]	UMP	O4'-C4'-C3'	-2.33	99.76	105.66
2	2-G	650[B]	UMP	P-O5'-C5'	-2.32	111.47	118.19
2	1-G	650[A]	UMP	P-O5'-C5'	-2.32	111.47	118.19
2	3-G	650[C]	UMP	P-O5'-C5'	-2.32	111.47	118.19
2	4-G	650[D]	UMP	P-O5'-C5'	-2.32	111.47	118.19
3	4-H	2701[D]	CB3	C8-C8A-C4A	-2.31	120.31	121.72
3	3-H	2701[C]	CB3	C8-C8A-C4A	-2.31	120.31	121.72
3	2-H	2701[B]	CB3	C8-C8A-C4A	-2.31	120.31	121.72
3	1-H	2701[A]	CB3	C8-C8A-C4A	-2.31	120.31	121.72
2	4-P	700[D]	UMP	C5-C4-N3	2.29	121.02	116.70
3	2-B	2401[B]	CB3	C15-C14-C13	-2.28	114.36	119.09
3	3-B	2401[C]	CB3	C15-C14-C13	-2.28	114.36	119.09
3	1-B	2401[A]	CB3	C15-C14-C13	-2.28	114.36	119.09
3	4-B	2401[D]	CB3	C15-C14-C13	-2.28	114.36	119.09
2	3-H	700[C]	UMP	O4'-C1'-N1	-2.28	103.39	107.68
2	4-H	700[D]	UMP	O4'-C1'-N1	-2.28	103.39	107.68
2	1-H	700[A]	UMP	O4'-C1'-N1	-2.28	103.39	107.68
2	2-H	700[B]	UMP	O4'-C1'-N1	-2.28	103.39	107.68
2	3-I	350[C]	UMP	C5-C4-N3	2.27	120.98	116.70
2	3-H	700[C]	UMP	O5'-P-OP1	2.27	113.35	106.71
2	4-H	700[D]	UMP	O5'-P-OP1	2.27	113.35	106.71
2	1-H	700[A]	UMP	O5'-P-OP1	2.27	113.35	106.71
3	2-E	2551[B]	CB3	CT-CA-N	-2.27	104.69	110.53
2	2-H	700[B]	UMP	O5'-P-OP1	2.27	113.35	106.71
3	1-E	2551[A]	CB3	CT-CA-N	-2.27	104.69	110.53
3	4-E	2551[D]	CB3	CT-CA-N	-2.27	104.69	110.53
3	3-E	2551[C]	CB3	CT-CA-N	-2.27	104.69	110.53
2	3-H	700[C]	UMP	O5'-C5'-C4'	-2.25	100.66	108.94
2	4-H	700[D]	UMP	O5'-C5'-C4'	-2.25	100.66	108.94
2	1-H	700[A]	UMP	O5'-C5'-C4'	-2.25	100.66	108.94
2	2-H	700[B]	UMP	O5'-C5'-C4'	-2.25	100.66	108.94
3	3-D	2501[C]	CB3	C9-N10-C14	2.25	124.65	120.71
3	1-D	2501[A]	CB3	C9-N10-C14	2.25	124.65	120.71
3	4-D	2501[D]	CB3	C9-N10-C14	2.25	124.65	120.71
3	2-D	2501[B]	CB3	C9-N10-C14	2.25	124.65	120.71
3	4-H	2701[D]	CB3	C6-C9-N10	2.24	117.79	114.44
3	3-H	2701[C]	CB3	C6-C9-N10	2.24	117.79	114.44
3	2-H	2701[B]	CB3	C6-C9-N10	2.24	117.79	114.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	1-H	2701[A]	CB3	C6-C9-N10	2.24	117.79	114.44
3	3-D	2501[C]	CB3	C16-C11-C12	2.23	121.83	118.63
3	1-D	2501[A]	CB3	C16-C11-C12	2.23	121.83	118.63
3	4-D	2501[D]	CB3	C16-C11-C12	2.23	121.83	118.63
3	2-D	2501[B]	CB3	C16-C11-C12	2.23	121.83	118.63
2	4-E	550[D]	UMP	C4'-O4'-C1'	2.23	115.08	109.44
2	2-E	550[B]	UMP	C4'-O4'-C1'	2.23	115.08	109.44
2	1-E	550[A]	UMP	C4'-O4'-C1'	2.23	115.08	109.44
2	1-I	350[A]	UMP	C5-C4-N3	2.22	120.89	116.70
2	3-E	550[C]	UMP	C4'-O4'-C1'	2.23	115.08	109.44
3	3-G	2651[C]	CB3	C9-C6-C7	-2.22	116.61	120.78
3	4-G	2651[D]	CB3	C9-C6-C7	-2.22	116.61	120.78
3	1-G	2651[A]	CB3	C9-C6-C7	-2.22	116.61	120.78
3	2-G	2651[B]	CB3	C9-C6-C7	-2.22	116.61	120.78
2	2-P	700[B]	UMP	C5-C4-N3	2.22	120.89	116.70
3	2-B	2401[B]	CB3	C16-C11-C12	2.21	121.79	118.63
3	3-G	2651[C]	CB3	C4-C4A-C8A	-2.21	115.80	118.60
3	4-G	2651[D]	CB3	C4-C4A-C8A	-2.21	115.80	118.60
3	3-B	2401[C]	CB3	C16-C11-C12	2.21	121.79	118.63
3	1-B	2401[A]	CB3	C16-C11-C12	2.21	121.79	118.63
3	4-B	2401[D]	CB3	C16-C11-C12	2.21	121.79	118.63
3	1-G	2651[A]	CB3	C4-C4A-C8A	-2.21	115.80	118.60
3	2-G	2651[B]	CB3	C4-C4A-C8A	-2.21	115.80	118.60
3	2-C	2451[B]	CB3	C13-C14-N10	-2.21	118.22	121.37
3	3-C	2451[C]	CB3	C13-C14-N10	-2.21	118.22	121.37
3	1-C	2451[A]	CB3	C13-C14-N10	-2.21	118.22	121.37
3	4-C	2451[D]	CB3	C13-C14-N10	-2.21	118.22	121.37
3	4-H	2701[D]	CB3	CT-CA-N	-2.21	104.85	110.53
2	1-J	400[A]	UMP	C5-C4-N3	2.21	120.86	116.70
3	3-H	2701[C]	CB3	CT-CA-N	-2.21	104.85	110.53
3	2-H	2701[B]	CB3	CT-CA-N	-2.21	104.85	110.53
3	1-H	2701[A]	CB3	CT-CA-N	-2.21	104.85	110.53
2	3-P	700[C]	UMP	C5-C4-N3	2.20	120.86	116.70
3	2-B	2401[B]	CB3	C15-C14-N10	2.19	124.50	121.37
3	3-B	2401[C]	CB3	C15-C14-N10	2.19	124.50	121.37
3	1-B	2401[A]	CB3	C15-C14-N10	2.19	124.50	121.37
3	4-B	2401[D]	CB3	C15-C14-N10	2.19	124.50	121.37
3	1-F	2601[A]	CB3	C12-C11-C	-2.19	113.78	120.56
3	3-F	2601[C]	CB3	C12-C11-C	-2.19	113.78	120.56
3	4-F	2601[D]	CB3	C12-C11-C	-2.19	113.78	120.56
3	2-F	2601[B]	CB3	C12-C11-C	-2.19	113.78	120.56
2	2-I	350[B]	UMP	C5-C4-N3	2.18	120.82	116.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	3-D	2501[C]	CB3	C9-C6-C7	-2.17	116.70	120.78
3	1-D	2501[A]	CB3	C9-C6-C7	-2.17	116.70	120.78
3	4-D	2501[D]	CB3	C9-C6-C7	-2.17	116.70	120.78
3	2-D	2501[B]	CB3	C9-C6-C7	-2.17	116.70	120.78
2	4-I	350[D]	UMP	C5-C4-N3	2.17	120.80	116.70
2	4-O	650[D]	UMP	N3-C2-N1	2.17	117.78	115.97
2	1-P	700[A]	UMP	C5-C4-N3	2.16	120.78	116.70
2	2-F	600[B]	UMP	O5'-C5'-C4'	-2.16	101.01	108.94
2	3-F	600[C]	UMP	O5'-C5'-C4'	-2.16	101.01	108.94
2	1-F	600[A]	UMP	O5'-C5'-C4'	-2.16	101.01	108.94
2	4-F	600[D]	UMP	O5'-C5'-C4'	-2.16	101.01	108.94
3	3-G	2651[C]	CB3	C12-C13-C14	2.15	123.33	120.44
3	4-G	2651[D]	CB3	C12-C13-C14	2.15	123.33	120.44
3	1-G	2651[A]	CB3	C12-C13-C14	2.15	123.33	120.44
3	2-G	2651[B]	CB3	C12-C13-C14	2.15	123.33	120.44
2	2-J	400[B]	UMP	C5-C4-N3	2.15	120.75	116.70
3	4-H	2701[D]	CB3	CP1-N10-C9	-2.14	111.94	115.68
3	3-H	2701[C]	CB3	CP1-N10-C9	-2.14	111.94	115.68
3	2-H	2701[B]	CB3	CP1-N10-C9	-2.14	111.94	115.68
3	1-H	2701[A]	CB3	CP1-N10-C9	-2.14	111.94	115.68
3	3-G	2651[C]	CB3	C8-C8A-C4A	-2.13	120.42	121.72
3	4-G	2651[D]	CB3	C8-C8A-C4A	-2.13	120.42	121.72
3	1-G	2651[A]	CB3	C8-C8A-C4A	-2.13	120.42	121.72
3	2-G	2651[B]	CB3	C8-C8A-C4A	-2.13	120.42	121.72
2	2-F	600[B]	UMP	C5-C4-N3	2.12	120.69	116.70
2	3-F	600[C]	UMP	C5-C4-N3	2.12	120.69	116.70
2	1-F	600[A]	UMP	C5-C4-N3	2.12	120.69	116.70
2	4-F	600[D]	UMP	C5-C4-N3	2.12	120.69	116.70
2	4-O	650[D]	UMP	C5-C4-N3	2.10	120.67	116.70
2	1-K	450[A]	UMP	C5-C4-N3	2.10	120.66	116.70
2	3-J	400[C]	UMP	C5-C4-N3	2.10	120.66	116.70
2	2-O	650[B]	UMP	N3-C2-N1	2.08	117.71	115.97
3	1-A	2351[A]	CB3	C11-C-N	2.08	120.36	116.89
2	3-H	700[C]	UMP	O4'-C4'-C3'	-2.08	100.39	105.66
3	2-A	2351[B]	CB3	C11-C-N	2.08	120.36	116.89
3	3-A	2351[C]	CB3	C11-C-N	2.08	120.36	116.89
2	4-H	700[D]	UMP	O4'-C4'-C3'	-2.08	100.39	105.66
2	1-H	700[A]	UMP	O4'-C4'-C3'	-2.08	100.39	105.66
3	4-A	2351[D]	CB3	C11-C-N	2.08	120.36	116.89
2	2-H	700[B]	UMP	O4'-C4'-C3'	-2.08	100.39	105.66
3	4-H	2701[D]	CB3	C16-C11-C12	2.07	121.60	118.63
2	4-B	400[D]	UMP	O4'-C1'-C2'	-2.07	102.16	106.25

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	1-B	400[A]	UMP	O4'-C1'-C2'	-2.07	102.16	106.25
3	3-H	2701[C]	CB3	C16-C11-C12	2.07	121.60	118.63
3	2-H	2701[B]	CB3	C16-C11-C12	2.07	121.60	118.63
3	1-H	2701[A]	CB3	C16-C11-C12	2.07	121.60	118.63
2	2-B	400[B]	UMP	O4'-C1'-C2'	-2.07	102.16	106.25
2	3-B	400[C]	UMP	O4'-C1'-C2'	-2.07	102.16	106.25
2	4-J	400[D]	UMP	C5-C4-N3	2.06	120.58	116.70
2	3-K	450[C]	UMP	C5-C4-N3	2.06	120.58	116.70
3	1-F	2601[A]	CB3	C9-N10-C14	2.05	124.30	120.71
3	3-F	2601[C]	CB3	C9-N10-C14	2.05	124.30	120.71
3	4-F	2601[D]	CB3	C9-N10-C14	2.05	124.30	120.71
3	2-F	2601[B]	CB3	C9-N10-C14	2.05	124.30	120.71
3	2-C	2451[B]	CB3	CP1-N10-C9	-2.04	112.12	115.68
3	3-C	2451[C]	CB3	CP1-N10-C9	-2.04	112.12	115.68
3	1-C	2451[A]	CB3	CP1-N10-C9	-2.04	112.12	115.68
3	4-C	2451[D]	CB3	CP1-N10-C9	-2.04	112.12	115.68
2	2-K	450[B]	UMP	C5-C4-N3	2.03	120.52	116.70
3	1-F	2601[A]	CB3	C8-C8A-C4A	-2.02	120.48	121.72
3	3-F	2601[C]	CB3	C8-C8A-C4A	-2.02	120.48	121.72
3	4-F	2601[D]	CB3	C8-C8A-C4A	-2.02	120.48	121.72
3	3-D	2501[C]	CB3	CT-CA-N	-2.02	105.32	110.53
3	1-D	2501[A]	CB3	CT-CA-N	-2.02	105.32	110.53
3	4-D	2501[D]	CB3	CT-CA-N	-2.02	105.32	110.53
3	2-F	2601[B]	CB3	C8-C8A-C4A	-2.02	120.48	121.72
3	2-D	2501[B]	CB3	CT-CA-N	-2.02	105.32	110.53

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	1-A	305/317 (96%)	1.41	86 (28%)	1	1	18, 26, 41, 61	305 (100%)
1	1-B	305/317 (96%)	1.34	77 (25%)	1	1	18, 27, 42, 63	305 (100%)
1	1-C	305/317 (96%)	1.37	69 (22%)	1	1	17, 26, 41, 61	305 (100%)
1	1-D	305/317 (96%)	1.30	72 (23%)	1	1	18, 27, 42, 63	305 (100%)
1	1-E	305/317 (96%)	1.40	77 (25%)	1	1	17, 26, 43, 63	305 (100%)
1	1-F	305/317 (96%)	1.29	69 (22%)	1	1	18, 27, 42, 64	305 (100%)
1	1-G	305/317 (96%)	1.38	78 (25%)	1	1	18, 26, 41, 62	305 (100%)
1	1-H	305/317 (96%)	1.34	72 (23%)	1	1	17, 27, 41, 64	305 (100%)
1	1-I	299/317 (94%)	7.19	298 (99%)	0	0	18, 26, 38, 56	299 (100%)
1	1-J	299/317 (94%)	6.90	297 (99%)	0	0	18, 26, 37, 56	299 (100%)
1	1-K	299/317 (94%)	7.04	297 (99%)	0	0	17, 26, 37, 56	299 (100%)
1	1-L	299/317 (94%)	6.65	295 (98%)	0	0	17, 26, 37, 56	299 (100%)
1	1-M	299/317 (94%)	7.15	296 (98%)	0	0	17, 26, 37, 56	299 (100%)
1	1-N	299/317 (94%)	6.83	297 (99%)	0	0	18, 26, 37, 56	299 (100%)
1	1-O	299/317 (94%)	7.40	298 (99%)	0	0	17, 26, 37, 56	299 (100%)
1	1-P	299/317 (94%)	6.72	290 (96%)	0	0	18, 26, 37, 56	299 (100%)
1	2-A	305/317 (96%)	1.41	86 (28%)	1	1	18, 26, 41, 61	305 (100%)
1	2-B	305/317 (96%)	1.34	77 (25%)	1	1	18, 27, 42, 63	305 (100%)
1	2-C	305/317 (96%)	1.37	69 (22%)	1	1	17, 26, 41, 61	305 (100%)
1	2-D	305/317 (96%)	1.30	72 (23%)	1	1	18, 27, 42, 63	305 (100%)
1	2-E	305/317 (96%)	1.40	77 (25%)	1	1	17, 26, 43, 63	305 (100%)
1	2-F	305/317 (96%)	1.29	69 (22%)	1	1	18, 27, 42, 64	305 (100%)
1	2-G	305/317 (96%)	1.38	78 (25%)	1	1	18, 26, 41, 62	305 (100%)
1	2-H	305/317 (96%)	1.34	72 (23%)	1	1	17, 27, 41, 64	305 (100%)

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	2-I	299/317 (94%)	7.19	298 (99%)	0	0	18, 26, 38, 56	299 (100%)
1	2-J	299/317 (94%)	6.90	297 (99%)	0	0	18, 26, 37, 56	299 (100%)
1	2-K	299/317 (94%)	7.04	297 (99%)	0	0	17, 26, 37, 56	299 (100%)
1	2-L	299/317 (94%)	6.65	295 (98%)	0	0	17, 26, 37, 56	299 (100%)
1	2-M	299/317 (94%)	7.15	296 (98%)	0	0	17, 26, 37, 56	299 (100%)
1	2-N	299/317 (94%)	6.83	297 (99%)	0	0	18, 26, 37, 56	299 (100%)
1	2-O	299/317 (94%)	7.40	298 (99%)	0	0	17, 26, 37, 56	299 (100%)
1	2-P	299/317 (94%)	6.72	290 (96%)	0	0	18, 26, 37, 56	299 (100%)
1	3-A	305/317 (96%)	1.41	86 (28%)	1	1	18, 26, 41, 61	305 (100%)
1	3-B	305/317 (96%)	1.34	77 (25%)	1	1	18, 27, 42, 63	305 (100%)
1	3-C	305/317 (96%)	1.37	69 (22%)	1	1	17, 26, 41, 61	305 (100%)
1	3-D	305/317 (96%)	1.30	72 (23%)	1	1	18, 27, 42, 63	305 (100%)
1	3-E	305/317 (96%)	1.40	77 (25%)	1	1	17, 26, 43, 63	305 (100%)
1	3-F	305/317 (96%)	1.29	69 (22%)	1	1	18, 27, 42, 64	305 (100%)
1	3-G	305/317 (96%)	1.38	78 (25%)	1	1	18, 26, 41, 62	305 (100%)
1	3-H	305/317 (96%)	1.34	72 (23%)	1	1	17, 27, 41, 64	305 (100%)
1	3-I	299/317 (94%)	7.19	298 (99%)	0	0	18, 26, 38, 56	299 (100%)
1	3-J	299/317 (94%)	6.90	297 (99%)	0	0	18, 26, 37, 56	299 (100%)
1	3-K	299/317 (94%)	7.04	297 (99%)	0	0	17, 26, 37, 56	299 (100%)
1	3-L	299/317 (94%)	6.65	295 (98%)	0	0	17, 26, 37, 56	299 (100%)
1	3-M	299/317 (94%)	7.15	296 (98%)	0	0	17, 26, 37, 56	299 (100%)
1	3-N	299/317 (94%)	6.83	297 (99%)	0	0	18, 26, 37, 56	299 (100%)
1	3-O	299/317 (94%)	7.40	298 (99%)	0	0	17, 26, 37, 56	299 (100%)
1	3-P	299/317 (94%)	6.72	290 (96%)	0	0	18, 26, 37, 56	299 (100%)
1	4-A	305/317 (96%)	1.41	86 (28%)	1	1	18, 26, 41, 61	305 (100%)
1	4-B	305/317 (96%)	1.34	77 (25%)	1	1	18, 27, 42, 63	305 (100%)
1	4-C	305/317 (96%)	1.37	69 (22%)	1	1	17, 26, 41, 61	305 (100%)
1	4-D	305/317 (96%)	1.30	72 (23%)	1	1	18, 27, 42, 63	305 (100%)
1	4-E	305/317 (96%)	1.40	77 (25%)	1	1	17, 26, 43, 63	305 (100%)
1	4-F	305/317 (96%)	1.29	69 (22%)	1	1	18, 27, 42, 64	305 (100%)
1	4-G	305/317 (96%)	1.38	78 (25%)	1	1	18, 26, 41, 62	305 (100%)

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	4-H	305/317 (96%)	1.34	72 (23%) 1 1	17, 27, 41, 64	305 (100%)
1	4-I	299/317 (94%)	7.19	298 (99%) 0 0	18, 26, 38, 56	299 (100%)
1	4-J	299/317 (94%)	6.90	297 (99%) 0 0	18, 26, 37, 56	299 (100%)
1	4-K	299/317 (94%)	7.04	297 (99%) 0 0	17, 26, 37, 56	299 (100%)
1	4-L	299/317 (94%)	6.65	295 (98%) 0 0	17, 26, 37, 56	299 (100%)
1	4-M	299/317 (94%)	7.15	296 (98%) 0 0	17, 26, 37, 56	299 (100%)
1	4-N	299/317 (94%)	6.83	297 (99%) 0 0	18, 26, 37, 56	299 (100%)
1	4-O	299/317 (94%)	7.40	298 (99%) 0 0	17, 26, 37, 56	299 (100%)
1	4-P	299/317 (94%)	6.72	290 (96%) 0 0	18, 26, 37, 56	299 (100%)
All	All	19328/20288 (95%)	4.14	11872 (61%) 0 0	17, 26, 40, 64	19328 (100%)

All (11872) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	1-K	153[A]	LEU	25.9
1	2-K	153[B]	LEU	25.9
1	3-K	153[C]	LEU	25.9
1	4-K	153[D]	LEU	25.9
1	1-O	239[A]	ALA	23.9
1	2-O	239[B]	ALA	23.9
1	3-O	239[C]	ALA	23.9
1	4-O	239[D]	ALA	23.9
1	1-P	211[A]	CYS	22.5
1	2-P	211[B]	CYS	22.5
1	3-P	211[C]	CYS	22.5
1	4-P	211[D]	CYS	22.5
1	1-I	232[A]	ALA	22.0
1	2-I	232[B]	ALA	22.0
1	3-I	232[C]	ALA	22.0
1	4-I	232[D]	ALA	22.0
1	1-O	297[A]	VAL	21.3
1	2-O	297[B]	VAL	21.3
1	3-O	297[C]	VAL	21.3
1	4-O	297[D]	VAL	21.3
1	1-K	63[A]	LEU	20.8
1	2-K	63[B]	LEU	20.8
1	3-K	63[C]	LEU	20.8
1	4-K	63[D]	LEU	20.8
1	1-J	100[A]	ILE	18.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-J	100[B]	ILE	18.4
1	3-J	100[C]	ILE	18.4
1	4-J	100[D]	ILE	18.4
1	1-O	127[A]	TYR	18.1
1	2-O	127[B]	TYR	18.1
1	3-O	127[C]	TYR	18.1
1	4-O	127[D]	TYR	18.1
1	1-M	259[A]	TYR	17.9
1	2-M	259[B]	TYR	17.9
1	3-M	259[C]	TYR	17.9
1	4-M	259[D]	TYR	17.9
1	1-J	210[A]	SER	17.8
1	2-J	210[B]	SER	17.8
1	3-J	210[C]	SER	17.8
1	4-J	210[D]	SER	17.8
1	1-M	290[A]	GLY	17.6
1	2-M	290[B]	GLY	17.6
1	3-M	290[C]	GLY	17.6
1	4-M	290[D]	GLY	17.6
1	1-M	204[A]	GLY	17.5
1	2-M	204[B]	GLY	17.5
1	3-M	204[C]	GLY	17.5
1	4-M	204[D]	GLY	17.5
1	1-L	195[A]	VAL	17.4
1	2-L	195[B]	VAL	17.4
1	3-L	195[C]	VAL	17.4
1	4-L	195[D]	VAL	17.4
1	1-J	43[A]	THR	17.3
1	2-J	43[B]	THR	17.3
1	3-J	43[C]	THR	17.3
1	4-J	43[D]	THR	17.3
1	1-K	282[A]	TRP	17.2
1	2-K	282[B]	TRP	17.2
1	3-K	282[C]	TRP	17.2
1	4-K	282[D]	TRP	17.2
1	1-L	221[A]	GLY	17.1
1	2-L	221[B]	GLY	17.1
1	3-L	221[C]	GLY	17.1
1	4-L	221[D]	GLY	17.1
1	1-N	36[A]	VAL	16.9
1	2-N	36[B]	VAL	16.9
1	3-N	36[C]	VAL	16.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-N	36[D]	VAL	16.9
1	1-P	229[A]	ALA	16.1
1	2-P	229[B]	ALA	16.1
1	3-P	229[C]	ALA	16.1
1	4-P	229[D]	ALA	16.1
1	1-K	97[A]	GLY	16.0
1	2-K	97[B]	GLY	16.0
1	3-K	97[C]	GLY	16.0
1	4-K	97[D]	GLY	16.0
1	1-M	205[A]	SER	16.0
1	2-M	205[B]	SER	16.0
1	3-M	205[C]	SER	16.0
1	4-M	205[D]	SER	16.0
1	1-K	45[A]	THR	15.8
1	2-K	45[B]	THR	15.8
1	3-K	45[C]	THR	15.8
1	4-K	45[D]	THR	15.8
1	1-O	54[A]	PHE	15.7
1	2-O	54[B]	PHE	15.7
1	3-O	54[C]	PHE	15.7
1	4-O	54[D]	PHE	15.7
1	1-O	235[A]	THR	15.5
1	2-O	235[B]	THR	15.5
1	3-O	235[C]	THR	15.5
1	4-O	235[D]	THR	15.5
1	1-J	289[A]	ILE	15.4
1	2-J	289[B]	ILE	15.4
1	3-J	289[C]	ILE	15.4
1	4-J	289[D]	ILE	15.4
1	1-J	52[A]	PRO	15.3
1	2-J	52[B]	PRO	15.3
1	3-J	52[C]	PRO	15.3
1	4-J	52[D]	PRO	15.3
1	1-M	294[A]	GLY	15.3
1	2-M	294[B]	GLY	15.3
1	3-M	294[C]	GLY	15.3
1	4-M	294[D]	GLY	15.3
1	1-N	194[A]	PHE	15.2
1	2-N	194[B]	PHE	15.2
1	3-N	194[C]	PHE	15.2
1	4-N	194[D]	PHE	15.2
1	1-L	254[A]	GLY	15.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-L	254[B]	GLY	15.2
1	3-L	254[C]	GLY	15.2
1	4-L	254[D]	GLY	15.2
1	1-N	115[A]	LEU	15.2
1	2-N	115[B]	LEU	15.2
1	3-N	115[C]	LEU	15.2
1	4-N	115[D]	LEU	15.2
1	1-N	180[A]	PRO	15.1
1	2-N	180[B]	PRO	15.1
1	3-N	180[C]	PRO	15.1
1	4-N	180[D]	PRO	15.1
1	1-O	210[A]	SER	15.1
1	2-O	210[B]	SER	15.1
1	3-O	210[C]	SER	15.1
1	4-O	210[D]	SER	15.1
1	1-J	283[A]	ALA	15.1
1	2-J	283[B]	ALA	15.1
1	3-J	283[C]	ALA	15.1
1	4-J	283[D]	ALA	15.1
1	1-I	309[A]	GLY	14.9
1	2-I	309[B]	GLY	14.9
1	3-I	309[C]	GLY	14.9
1	4-I	309[D]	GLY	14.9
1	1-N	239[A]	ALA	14.9
1	2-N	239[B]	ALA	14.9
1	3-N	239[C]	ALA	14.9
1	4-N	239[D]	ALA	14.9
1	1-I	191[A]	CYS	14.8
1	2-I	191[B]	CYS	14.8
1	3-I	191[C]	CYS	14.8
1	4-I	191[D]	CYS	14.8
1	1-M	54[A]	PHE	14.8
1	2-M	54[B]	PHE	14.8
1	3-M	54[C]	PHE	14.8
1	4-M	54[D]	PHE	14.8
1	1-I	293[A]	ASP	14.8
1	2-I	293[B]	ASP	14.8
1	3-I	293[C]	ASP	14.8
1	4-I	293[D]	ASP	14.8
1	1-L	167[A]	ARG	14.8
1	2-L	167[B]	ARG	14.8
1	3-L	167[C]	ARG	14.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-L	167[D]	ARG	14.8
1	1-O	173[A]	ALA	14.7
1	1-P	129[A]	PHE	14.7
1	2-O	173[B]	ALA	14.7
1	2-P	129[B]	PHE	14.7
1	3-O	173[C]	ALA	14.7
1	3-P	129[C]	PHE	14.7
1	4-O	173[D]	ALA	14.7
1	4-P	129[D]	PHE	14.7
1	1-J	256[A]	ALA	14.6
1	2-J	256[B]	ALA	14.6
1	3-J	256[C]	ALA	14.6
1	4-J	256[D]	ALA	14.6
1	1-L	151[A]	ASP	14.6
1	2-L	151[B]	ASP	14.6
1	3-L	151[C]	ASP	14.6
1	4-L	151[D]	ASP	14.6
1	1-L	88[A]	THR	14.6
1	2-L	88[B]	THR	14.6
1	3-L	88[C]	THR	14.6
1	4-L	88[D]	THR	14.6
1	1-O	31[A]	ILE	14.5
1	2-O	31[B]	ILE	14.5
1	3-O	31[C]	ILE	14.5
1	4-O	31[D]	ILE	14.5
1	1-L	223[A]	GLY	14.5
1	2-L	223[B]	GLY	14.5
1	3-L	223[C]	GLY	14.5
1	4-L	223[D]	GLY	14.5
1	1-L	212[A]	LEU	14.5
1	2-L	212[B]	LEU	14.5
1	3-L	212[C]	LEU	14.5
1	4-L	212[D]	LEU	14.5
1	1-O	205[A]	SER	14.4
1	2-O	205[B]	SER	14.4
1	3-O	205[C]	SER	14.4
1	4-O	205[D]	SER	14.4
1	1-K	300[A]	PHE	14.4
1	2-K	300[B]	PHE	14.4
1	3-K	300[C]	PHE	14.4
1	4-K	300[D]	PHE	14.4
1	1-O	121[A]	GLY	14.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-O	121[B]	GLY	14.3
1	3-O	121[C]	GLY	14.3
1	4-O	121[D]	GLY	14.3
1	1-J	129[A]	PHE	14.3
1	2-J	129[B]	PHE	14.3
1	3-J	129[C]	PHE	14.3
1	4-J	129[D]	PHE	14.3
1	1-N	50[A]	ALA	14.2
1	2-N	50[B]	ALA	14.2
1	3-N	50[C]	ALA	14.2
1	4-N	50[D]	ALA	14.2
1	1-N	199[A]	PRO	14.2
1	2-N	199[B]	PRO	14.2
1	3-N	199[C]	PRO	14.2
1	4-N	199[D]	PRO	14.2
1	1-O	113[A]	VAL	14.2
1	2-O	113[B]	VAL	14.2
1	3-O	113[C]	VAL	14.2
1	4-O	113[D]	VAL	14.2
1	1-O	231[A]	TYR	14.1
1	2-O	231[B]	TYR	14.1
1	3-O	231[C]	TYR	14.1
1	4-O	231[D]	TYR	14.1
1	1-O	42[A]	GLY	14.1
1	2-O	42[B]	GLY	14.1
1	3-O	42[C]	GLY	14.1
1	4-O	42[D]	GLY	14.1
1	1-P	185[A]	PRO	14.0
1	2-P	185[B]	PRO	14.0
1	3-P	185[C]	PRO	14.0
1	4-P	185[D]	PRO	14.0
1	1-N	51[A]	PRO	14.0
1	2-N	51[B]	PRO	14.0
1	3-N	51[C]	PRO	14.0
1	4-N	51[D]	PRO	14.0
1	1-K	238[A]	ILE	14.0
1	2-K	238[B]	ILE	14.0
1	3-K	238[C]	ILE	14.0
1	4-K	238[D]	ILE	14.0
1	1-I	33[A]	VAL	14.0
1	2-I	33[B]	VAL	14.0
1	3-I	33[C]	VAL	14.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-I	33[D]	VAL	14.0
1	1-P	204[A]	GLY	14.0
1	2-P	204[B]	GLY	14.0
1	3-P	204[C]	GLY	14.0
1	4-P	204[D]	GLY	14.0
1	1-I	270[A]	LEU	13.9
1	2-I	270[B]	LEU	13.9
1	3-I	270[C]	LEU	13.9
1	4-I	270[D]	LEU	13.9
1	1-K	283[A]	ALA	13.9
1	2-K	283[B]	ALA	13.9
1	3-K	283[C]	ALA	13.9
1	4-K	283[D]	ALA	13.9
1	1-N	223[A]	GLY	13.9
1	2-N	223[B]	GLY	13.9
1	3-N	223[C]	GLY	13.9
1	4-N	223[D]	GLY	13.9
1	1-P	263[A]	VAL	13.9
1	2-P	263[B]	VAL	13.9
1	3-P	263[C]	VAL	13.9
1	4-P	263[D]	VAL	13.9
1	1-M	190[A]	PHE	13.9
1	2-M	190[B]	PHE	13.9
1	3-M	190[C]	PHE	13.9
1	4-M	190[D]	PHE	13.9
1	1-M	169[A]	ILE	13.9
1	1-O	73[A]	LEU	13.9
1	1-P	311[A]	ILE	13.9
1	2-M	169[B]	ILE	13.9
1	2-O	73[B]	LEU	13.9
1	2-P	311[B]	ILE	13.9
1	3-M	169[C]	ILE	13.9
1	3-O	73[C]	LEU	13.9
1	3-P	311[C]	ILE	13.9
1	4-M	169[D]	ILE	13.9
1	4-O	73[D]	LEU	13.9
1	4-P	311[D]	ILE	13.9
1	1-M	302[A]	VAL	13.8
1	2-M	302[B]	VAL	13.8
1	3-M	302[C]	VAL	13.8
1	4-M	302[D]	VAL	13.8
1	1-L	90[A]	ALA	13.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-L	90[B]	ALA	13.7
1	3-L	90[C]	ALA	13.7
1	4-L	90[D]	ALA	13.7
1	1-J	197[A]	LEU	13.7
1	2-J	197[B]	LEU	13.7
1	3-J	197[C]	LEU	13.7
1	4-J	197[D]	LEU	13.7
1	1-I	88[A]	THR	13.7
1	2-I	88[B]	THR	13.7
1	3-I	88[C]	THR	13.7
1	4-I	88[D]	THR	13.7
1	1-I	34[A]	GLY	13.7
1	2-I	34[B]	GLY	13.7
1	3-I	34[C]	GLY	13.7
1	4-I	34[D]	GLY	13.7
1	1-L	164[A]	PRO	13.6
1	2-L	164[B]	PRO	13.6
1	3-L	164[C]	PRO	13.6
1	4-L	164[D]	PRO	13.6
1	1-P	127[A]	TYR	13.6
1	2-P	127[B]	TYR	13.6
1	3-P	127[C]	TYR	13.6
1	4-P	127[D]	TYR	13.6
1	1-K	229[A]	ALA	13.6
1	2-K	229[B]	ALA	13.6
1	3-K	229[C]	ALA	13.6
1	4-K	229[D]	ALA	13.6
1	1-J	221[A]	GLY	13.5
1	2-J	221[B]	GLY	13.5
1	3-J	221[C]	GLY	13.5
1	4-J	221[D]	GLY	13.5
1	1-P	259[A]	TYR	13.5
1	2-P	259[B]	TYR	13.5
1	3-P	259[C]	TYR	13.5
1	4-P	259[D]	TYR	13.5
1	1-K	183[A]	ALA	13.5
1	2-K	183[B]	ALA	13.5
1	3-K	183[C]	ALA	13.5
1	4-K	183[D]	ALA	13.5
1	1-N	27[A]	ILE	13.4
1	2-N	27[B]	ILE	13.4
1	3-N	27[C]	ILE	13.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-N	27[D]	ILE	13.4
1	1-L	220[A]	LEU	13.4
1	2-L	220[B]	LEU	13.4
1	3-L	220[C]	LEU	13.4
1	4-L	220[D]	LEU	13.4
1	1-I	27[A]	ILE	13.4
1	1-N	203[A]	PRO	13.4
1	2-I	27[B]	ILE	13.4
1	2-N	203[B]	PRO	13.4
1	3-I	27[C]	ILE	13.4
1	3-N	203[C]	PRO	13.4
1	4-I	27[D]	ILE	13.4
1	4-N	203[D]	PRO	13.4
1	1-P	181[A]	LEU	13.4
1	2-P	181[B]	LEU	13.4
1	3-P	181[C]	LEU	13.4
1	4-P	181[D]	LEU	13.4
1	1-M	100[A]	ILE	13.3
1	2-M	100[B]	ILE	13.3
1	3-M	100[C]	ILE	13.3
1	4-M	100[D]	ILE	13.3
1	1-J	183[A]	ALA	13.2
1	2-J	183[B]	ALA	13.2
1	3-J	183[C]	ALA	13.2
1	4-J	183[D]	ALA	13.2
1	1-M	47[A]	ALA	13.1
1	2-M	47[B]	ALA	13.1
1	3-M	47[C]	ALA	13.1
1	4-M	47[D]	ALA	13.1
1	1-P	97[A]	GLY	13.1
1	2-P	97[B]	GLY	13.1
1	3-P	97[C]	GLY	13.1
1	4-P	97[D]	GLY	13.1
1	1-J	203[A]	PRO	13.0
1	2-J	203[B]	PRO	13.0
1	3-J	203[C]	PRO	13.0
1	4-J	203[D]	PRO	13.0
1	1-J	304[A]	GLY	13.0
1	2-J	304[B]	GLY	13.0
1	3-J	304[C]	GLY	13.0
1	4-J	304[D]	GLY	13.0
1	1-O	316[A]	SER	13.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-O	316[B]	SER	13.0
1	3-O	316[C]	SER	13.0
1	4-O	316[D]	SER	13.0
1	1-L	138[A]	TYR	13.0
1	2-L	138[B]	TYR	13.0
1	3-L	138[C]	TYR	13.0
1	4-L	138[D]	TYR	13.0
1	1-I	263[A]	VAL	13.0
1	1-M	124[A]	GLY	13.0
1	2-I	263[B]	VAL	13.0
1	2-M	124[B]	GLY	13.0
1	3-I	263[C]	VAL	13.0
1	3-M	124[C]	GLY	13.0
1	4-I	263[D]	VAL	13.0
1	4-M	124[D]	GLY	13.0
1	1-P	134[A]	PHE	12.9
1	2-P	134[B]	PHE	12.9
1	3-P	134[C]	PHE	12.9
1	4-P	134[D]	PHE	12.9
1	1-I	287[A]	GLU	12.9
1	2-I	287[B]	GLU	12.9
1	3-I	287[C]	GLU	12.9
1	4-I	287[D]	GLU	12.9
1	1-K	104[A]	ASN	12.9
1	2-K	104[B]	ASN	12.9
1	3-K	104[C]	ASN	12.9
1	4-K	104[D]	ASN	12.9
1	1-M	95[A]	SER	12.9
1	1-P	106[A]	SER	12.9
1	2-M	95[B]	SER	12.9
1	2-P	106[B]	SER	12.9
1	3-M	95[C]	SER	12.9
1	3-P	106[C]	SER	12.9
1	4-M	95[D]	SER	12.9
1	4-P	106[D]	SER	12.9
1	1-O	240[A]	LEU	12.8
1	2-O	240[B]	LEU	12.8
1	3-O	240[C]	LEU	12.8
1	4-O	240[D]	LEU	12.8
1	1-P	17[A]	ASP	12.8
1	2-P	17[B]	ASP	12.8
1	3-P	17[C]	ASP	12.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-P	17[D]	ASP	12.8
1	1-O	254[A]	GLY	12.8
1	2-O	254[B]	GLY	12.8
1	3-O	254[C]	GLY	12.8
1	4-O	254[D]	GLY	12.8
1	1-O	50[A]	ALA	12.8
1	2-O	50[B]	ALA	12.8
1	3-O	50[C]	ALA	12.8
1	4-O	50[D]	ALA	12.8
1	1-P	230[A]	SER	12.7
1	2-P	230[B]	SER	12.7
1	3-P	230[C]	SER	12.7
1	4-P	230[D]	SER	12.7
1	1-M	187[A]	CYS	12.7
1	2-M	187[B]	CYS	12.7
1	3-M	187[C]	CYS	12.7
1	4-M	187[D]	CYS	12.7
1	1-M	188[A]	HIS	12.7
1	2-M	188[B]	HIS	12.7
1	3-M	188[C]	HIS	12.7
1	4-M	188[D]	HIS	12.7
1	1-O	99[A]	GLY	12.7
1	2-O	99[B]	GLY	12.7
1	3-O	99[C]	GLY	12.7
1	4-O	99[D]	GLY	12.7
1	1-L	46[A]	VAL	12.7
1	2-L	46[B]	VAL	12.7
1	3-L	46[C]	VAL	12.7
1	4-L	46[D]	VAL	12.7
1	1-P	116[A]	GLY	12.6
1	2-P	116[B]	GLY	12.6
1	3-P	116[C]	GLY	12.6
1	4-P	116[D]	GLY	12.6
1	1-J	238[A]	ILE	12.6
1	2-J	238[B]	ILE	12.6
1	3-J	238[C]	ILE	12.6
1	4-J	238[D]	ILE	12.6
1	1-N	198[A]	PRO	12.6
1	2-N	198[B]	PRO	12.6
1	3-N	198[C]	PRO	12.6
1	4-N	198[D]	PRO	12.6
1	1-M	250[A]	ILE	12.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-M	250[B]	ILE	12.6
1	3-M	250[C]	ILE	12.6
1	4-M	250[D]	ILE	12.6
1	1-N	139[A]	THR	12.5
1	2-N	139[B]	THR	12.5
1	3-N	139[C]	THR	12.5
1	4-N	139[D]	THR	12.5
1	1-J	181[A]	LEU	12.5
1	2-J	181[B]	LEU	12.5
1	3-J	181[C]	LEU	12.5
1	4-J	181[D]	LEU	12.5
1	1-M	241[A]	ILE	12.5
1	1-N	100[A]	ILE	12.5
1	2-M	241[B]	ILE	12.5
1	2-N	100[B]	ILE	12.5
1	3-M	241[C]	ILE	12.5
1	3-N	100[C]	ILE	12.5
1	4-M	241[D]	ILE	12.5
1	4-N	100[D]	ILE	12.5
1	1-J	205[A]	SER	12.5
1	2-J	205[B]	SER	12.5
1	3-J	205[C]	SER	12.5
1	4-J	205[D]	SER	12.5
1	1-O	136[A]	ALA	12.4
1	2-O	136[B]	ALA	12.4
1	3-O	136[C]	ALA	12.4
1	4-O	136[D]	ALA	12.4
1	1-K	131[A]	TRP	12.4
1	2-K	131[B]	TRP	12.4
1	3-K	131[C]	TRP	12.4
1	4-K	131[D]	TRP	12.4
1	1-N	289[A]	ILE	12.4
1	2-N	289[B]	ILE	12.4
1	3-N	289[C]	ILE	12.4
1	4-N	289[D]	ILE	12.4
1	1-O	282[A]	TRP	12.4
1	2-O	282[B]	TRP	12.4
1	3-O	282[C]	TRP	12.4
1	4-O	282[D]	TRP	12.4
1	1-M	33[A]	VAL	12.4
1	2-M	33[B]	VAL	12.4
1	3-M	33[C]	VAL	12.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-M	33[D]	VAL	12.4
1	1-I	172[A]	SER	12.4
1	2-I	172[B]	SER	12.4
1	3-I	172[C]	SER	12.4
1	4-I	172[D]	SER	12.4
1	1-J	274[A]	PRO	12.4
1	1-O	198[A]	PRO	12.4
1	2-J	274[B]	PRO	12.4
1	2-O	198[B]	PRO	12.4
1	3-J	274[C]	PRO	12.4
1	3-O	198[C]	PRO	12.4
1	4-J	274[D]	PRO	12.4
1	4-O	198[D]	PRO	12.4
1	1-I	160[A]	ILE	12.3
1	2-I	160[B]	ILE	12.3
1	3-I	160[C]	ILE	12.3
1	4-I	160[D]	ILE	12.3
1	1-J	66[A]	LEU	12.3
1	2-J	66[B]	LEU	12.3
1	3-J	66[C]	LEU	12.3
1	4-J	66[D]	LEU	12.3
1	1-K	305[A]	TYR	12.3
1	2-K	305[B]	TYR	12.3
1	3-K	305[C]	TYR	12.3
1	4-K	305[D]	TYR	12.3
1	1-O	232[A]	ALA	12.3
1	2-O	232[B]	ALA	12.3
1	3-O	232[C]	ALA	12.3
1	4-O	232[D]	ALA	12.3
1	1-J	180[A]	PRO	12.2
1	2-J	180[B]	PRO	12.2
1	3-J	180[C]	PRO	12.2
1	4-J	180[D]	PRO	12.2
1	1-L	98[A]	VAL	12.2
1	1-L	186[A]	PRO	12.2
1	2-L	98[B]	VAL	12.2
1	2-L	186[B]	PRO	12.2
1	3-L	98[C]	VAL	12.2
1	3-L	186[C]	PRO	12.2
1	4-L	98[D]	VAL	12.2
1	4-L	186[D]	PRO	12.2
1	1-O	100[A]	ILE	12.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-O	100[B]	ILE	12.2
1	3-O	100[C]	ILE	12.2
1	4-O	100[D]	ILE	12.2
1	1-K	59[A]	ALA	12.2
1	2-K	59[B]	ALA	12.2
1	3-K	59[C]	ALA	12.2
1	4-K	59[D]	ALA	12.2
1	1-K	93[A]	LEU	12.2
1	2-K	93[B]	LEU	12.2
1	3-K	93[C]	LEU	12.2
1	4-K	93[D]	LEU	12.2
1	1-I	152[A]	GLN	12.2
1	2-I	152[B]	GLN	12.2
1	3-I	152[C]	GLN	12.2
1	4-I	152[D]	GLN	12.2
1	1-J	115[A]	LEU	12.2
1	2-J	115[B]	LEU	12.2
1	3-J	115[C]	LEU	12.2
1	4-J	115[D]	LEU	12.2
1	1-L	134[A]	PHE	12.1
1	2-L	134[B]	PHE	12.1
1	3-L	134[C]	PHE	12.1
1	4-L	134[D]	PHE	12.1
1	1-M	171[A]	LEU	12.1
1	2-M	171[B]	LEU	12.1
1	3-M	171[C]	LEU	12.1
1	4-M	171[D]	LEU	12.1
1	1-O	141[A]	ALA	12.1
1	2-O	141[B]	ALA	12.1
1	3-O	141[C]	ALA	12.1
1	4-O	141[D]	ALA	12.1
1	1-P	46[A]	VAL	12.1
1	2-P	46[B]	VAL	12.1
1	3-P	46[C]	VAL	12.1
1	4-P	46[D]	VAL	12.1
1	1-P	93[A]	LEU	12.1
1	2-P	93[B]	LEU	12.1
1	3-P	93[C]	LEU	12.1
1	4-P	93[D]	LEU	12.1
1	1-O	96[A]	GLN	12.1
1	2-O	96[B]	GLN	12.1
1	3-O	96[C]	GLN	12.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-O	96[D]	GLN	12.1
1	1-I	170[A]	ILE	12.0
1	1-O	250[A]	ILE	12.0
1	2-I	170[B]	ILE	12.0
1	2-O	250[B]	ILE	12.0
1	3-I	170[C]	ILE	12.0
1	3-O	250[C]	ILE	12.0
1	4-I	170[D]	ILE	12.0
1	4-O	250[D]	ILE	12.0
1	1-L	64[A]	PRO	12.0
1	2-L	64[B]	PRO	12.0
1	3-L	64[C]	PRO	12.0
1	4-L	64[D]	PRO	12.0
1	1-O	211[A]	CYS	12.0
1	2-O	211[B]	CYS	12.0
1	3-O	211[C]	CYS	12.0
1	4-O	211[D]	CYS	12.0
1	1-J	30[A]	ILE	12.0
1	2-J	30[B]	ILE	12.0
1	3-J	30[C]	ILE	12.0
1	4-J	30[D]	ILE	12.0
1	1-K	199[A]	PRO	12.0
1	2-K	199[B]	PRO	12.0
1	3-K	199[C]	PRO	12.0
1	4-K	199[D]	PRO	12.0
1	1-K	49[A]	PHE	12.0
1	2-K	49[B]	PHE	12.0
1	3-K	49[C]	PHE	12.0
1	4-K	49[D]	PHE	12.0
1	1-I	269[A]	GLN	11.9
1	2-I	269[B]	GLN	11.9
1	3-I	269[C]	GLN	11.9
1	4-I	269[D]	GLN	11.9
1	1-M	174[A]	TRP	11.9
1	2-M	174[B]	TRP	11.9
1	3-M	174[C]	TRP	11.9
1	4-M	174[D]	TRP	11.9
1	1-K	251[A]	LEU	11.9
1	2-K	251[B]	LEU	11.9
1	3-K	251[C]	LEU	11.9
1	4-K	251[D]	LEU	11.9
1	1-L	263[A]	VAL	11.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-L	263[B]	VAL	11.9
1	3-L	263[C]	VAL	11.9
1	4-L	263[D]	VAL	11.9
1	1-J	225[A]	PRO	11.9
1	2-J	225[B]	PRO	11.9
1	3-J	225[C]	PRO	11.9
1	4-J	225[D]	PRO	11.9
1	1-P	65[A]	LEU	11.9
1	2-P	65[B]	LEU	11.9
1	3-P	65[C]	LEU	11.9
1	4-P	65[D]	LEU	11.9
1	1-N	24[A]	LEU	11.8
1	2-N	24[B]	LEU	11.8
1	3-N	24[C]	LEU	11.8
1	4-N	24[D]	LEU	11.8
1	1-P	214[A]	TYR	11.8
1	2-P	214[B]	TYR	11.8
1	3-P	214[C]	TYR	11.8
1	4-P	214[D]	TYR	11.8
1	1-I	162[A]	ASN	11.8
1	2-I	162[B]	ASN	11.8
1	3-I	162[C]	ASN	11.8
1	4-I	162[D]	ASN	11.8
1	1-K	116[A]	GLY	11.8
1	2-K	116[B]	GLY	11.8
1	3-K	116[C]	GLY	11.8
1	4-K	116[D]	GLY	11.8
1	1-O	289[A]	ILE	11.7
1	2-O	289[B]	ILE	11.7
1	3-O	289[C]	ILE	11.7
1	4-O	289[D]	ILE	11.7
1	1-I	186[A]	PRO	11.7
1	2-I	186[B]	PRO	11.7
1	3-I	186[C]	PRO	11.7
1	4-I	186[D]	PRO	11.7
1	1-J	268[A]	THR	11.7
1	2-J	268[B]	THR	11.7
1	3-J	268[C]	THR	11.7
1	4-J	268[D]	THR	11.7
1	1-J	65[A]	LEU	11.7
1	2-J	65[B]	LEU	11.7
1	3-J	65[C]	LEU	11.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-J	65[D]	LEU	11.7
1	1-I	30[A]	ILE	11.7
1	1-L	259[A]	TYR	11.7
1	2-I	30[B]	ILE	11.7
1	2-L	259[B]	TYR	11.7
1	3-I	30[C]	ILE	11.7
1	3-L	259[C]	TYR	11.7
1	4-I	30[D]	ILE	11.7
1	4-L	259[D]	TYR	11.7
1	1-P	315[A]	MET	11.7
1	2-P	315[B]	MET	11.7
1	3-P	315[C]	MET	11.7
1	4-P	315[D]	MET	11.7
1	1-O	26[A]	LEU	11.7
1	2-O	26[B]	LEU	11.7
1	3-O	26[C]	LEU	11.7
1	4-O	26[D]	LEU	11.7
1	1-K	203[A]	PRO	11.7
1	2-K	203[B]	PRO	11.7
1	3-K	203[C]	PRO	11.7
1	4-K	203[D]	PRO	11.7
1	1-I	93[A]	LEU	11.7
1	2-I	93[B]	LEU	11.7
1	3-I	93[C]	LEU	11.7
1	4-I	93[D]	LEU	11.7
1	1-N	33[A]	VAL	11.7
1	2-N	33[B]	VAL	11.7
1	3-N	33[C]	VAL	11.7
1	4-N	33[D]	VAL	11.7
1	1-O	238[A]	ILE	11.7
1	2-O	238[B]	ILE	11.7
1	3-O	238[C]	ILE	11.7
1	4-O	238[D]	ILE	11.7
1	1-O	86[A]	GLY	11.6
1	2-O	86[B]	GLY	11.6
1	3-O	86[C]	GLY	11.6
1	4-O	86[D]	GLY	11.6
1	1-I	203[A]	PRO	11.6
1	2-I	203[B]	PRO	11.6
1	3-I	203[C]	PRO	11.6
1	4-I	203[D]	PRO	11.6
1	1-O	49[A]	PHE	11.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-O	49[B]	PHE	11.6
1	3-O	49[C]	PHE	11.6
1	4-O	49[D]	PHE	11.6
1	1-I	81[A]	LEU	11.6
1	1-O	171[A]	LEU	11.6
1	2-I	81[B]	LEU	11.6
1	2-O	171[B]	LEU	11.6
1	3-I	81[C]	LEU	11.6
1	3-O	171[C]	LEU	11.6
1	4-I	81[D]	LEU	11.6
1	4-O	171[D]	LEU	11.6
1	1-I	111[A]	GLU	11.6
1	2-I	111[B]	GLU	11.6
1	3-I	111[C]	GLU	11.6
1	4-I	111[D]	GLU	11.6
1	1-J	54[A]	PHE	11.6
1	2-J	54[B]	PHE	11.6
1	3-J	54[C]	PHE	11.6
1	4-J	54[D]	PHE	11.6
1	1-N	159[A]	THR	11.5
1	2-N	159[B]	THR	11.5
1	3-N	159[C]	THR	11.5
1	4-N	159[D]	THR	11.5
1	1-K	317[A]	ALA	11.5
1	2-K	317[B]	ALA	11.5
1	3-K	317[C]	ALA	11.5
1	4-K	317[D]	ALA	11.5
1	1-O	82[A]	TRP	11.5
1	2-O	82[B]	TRP	11.5
1	3-O	82[C]	TRP	11.5
1	4-O	82[D]	TRP	11.5
1	1-I	214[A]	TYR	11.5
1	2-I	214[B]	TYR	11.5
1	3-I	214[C]	TYR	11.5
1	4-I	214[D]	TYR	11.5
1	1-P	268[A]	THR	11.5
1	2-P	268[B]	THR	11.5
1	3-P	268[C]	THR	11.5
1	4-P	268[D]	THR	11.5
1	1-O	59[A]	ALA	11.5
1	2-O	59[B]	ALA	11.5
1	3-O	59[C]	ALA	11.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-O	59[D]	ALA	11.5
1	1-I	159[A]	THR	11.5
1	2-I	159[B]	THR	11.5
1	3-I	159[C]	THR	11.5
1	4-I	159[D]	THR	11.5
1	1-M	78[A]	ALA	11.4
1	2-M	78[B]	ALA	11.4
1	3-M	78[C]	ALA	11.4
1	4-M	78[D]	ALA	11.4
1	1-L	187[A]	CYS	11.4
1	2-L	187[B]	CYS	11.4
1	3-L	187[C]	CYS	11.4
1	4-L	187[D]	CYS	11.4
1	1-P	156[A]	VAL	11.4
1	1-P	199[A]	PRO	11.4
1	2-P	156[B]	VAL	11.4
1	2-P	199[B]	PRO	11.4
1	3-P	156[C]	VAL	11.4
1	3-P	199[C]	PRO	11.4
1	4-P	156[D]	VAL	11.4
1	4-P	199[D]	PRO	11.4
1	1-O	22[A]	GLN	11.4
1	2-O	22[B]	GLN	11.4
1	3-O	22[C]	GLN	11.4
1	4-O	22[D]	GLN	11.4
1	1-I	289[A]	ILE	11.4
1	2-I	289[B]	ILE	11.4
1	3-I	289[C]	ILE	11.4
1	4-I	289[D]	ILE	11.4
1	1-N	47[A]	ALA	11.4
1	2-N	47[B]	ALA	11.4
1	3-N	47[C]	ALA	11.4
1	4-N	47[D]	ALA	11.4
1	1-J	305[A]	TYR	11.4
1	2-J	305[B]	TYR	11.4
1	3-J	305[C]	TYR	11.4
1	4-J	305[D]	TYR	11.4
1	1-N	86[A]	GLY	11.4
1	2-N	86[B]	GLY	11.4
1	3-N	86[C]	GLY	11.4
1	4-N	86[D]	GLY	11.4
1	1-J	300[A]	PHE	11.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-J	300[B]	PHE	11.4
1	3-J	300[C]	PHE	11.4
1	4-J	300[D]	PHE	11.4
1	1-O	183[A]	ALA	11.4
1	2-O	183[B]	ALA	11.4
1	3-O	183[C]	ALA	11.4
1	4-O	183[D]	ALA	11.4
1	1-I	84[A]	VAL	11.3
1	2-I	84[B]	VAL	11.3
1	3-I	84[C]	VAL	11.3
1	4-I	84[D]	VAL	11.3
1	1-L	124[A]	GLY	11.3
1	2-L	124[B]	GLY	11.3
1	3-L	124[C]	GLY	11.3
1	4-L	124[D]	GLY	11.3
1	1-O	77[A]	ILE	11.3
1	2-O	77[B]	ILE	11.3
1	3-O	77[C]	ILE	11.3
1	4-O	77[D]	ILE	11.3
1	1-M	308[A]	TRP	11.3
1	2-M	308[B]	TRP	11.3
1	3-M	308[C]	TRP	11.3
1	4-M	308[D]	TRP	11.3
1	1-K	99[A]	GLY	11.3
1	1-K	204[A]	GLY	11.3
1	2-K	99[B]	GLY	11.3
1	2-K	204[B]	GLY	11.3
1	3-K	99[C]	GLY	11.3
1	3-K	204[C]	GLY	11.3
1	4-K	99[D]	GLY	11.3
1	4-K	204[D]	GLY	11.3
1	1-L	249[A]	PHE	11.3
1	2-L	249[B]	PHE	11.3
1	3-L	249[C]	PHE	11.3
1	4-L	249[D]	PHE	11.3
1	1-I	113[A]	VAL	11.3
1	2-I	113[B]	VAL	11.3
1	3-I	113[C]	VAL	11.3
1	4-I	113[D]	VAL	11.3
1	1-I	138[A]	TYR	11.3
1	2-I	138[B]	TYR	11.3
1	3-I	138[C]	TYR	11.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-I	138[D]	TYR	11.3
1	1-L	165[A]	THR	11.3
1	2-L	165[B]	THR	11.3
1	3-L	165[C]	THR	11.3
1	4-L	165[D]	THR	11.3
1	1-I	229[A]	ALA	11.3
1	2-I	229[B]	ALA	11.3
1	3-I	229[C]	ALA	11.3
1	4-I	229[D]	ALA	11.3
1	1-L	55[A]	ARG	11.3
1	2-L	55[B]	ARG	11.3
1	3-L	55[C]	ARG	11.3
1	4-L	55[D]	ARG	11.3
1	1-L	103[A]	GLY	11.3
1	2-L	103[B]	GLY	11.3
1	3-L	103[C]	GLY	11.3
1	4-L	103[D]	GLY	11.3
1	1-M	268[A]	THR	11.2
1	2-M	268[B]	THR	11.2
1	3-M	268[C]	THR	11.2
1	4-M	268[D]	THR	11.2
1	1-N	187[A]	CYS	11.2
1	2-N	187[B]	CYS	11.2
1	3-N	187[C]	CYS	11.2
1	4-N	187[D]	CYS	11.2
1	1-P	72[A]	PHE	11.2
1	2-P	72[B]	PHE	11.2
1	3-P	72[C]	PHE	11.2
1	4-P	72[D]	PHE	11.2
1	1-N	243[A]	ASP	11.2
1	2-N	243[B]	ASP	11.2
1	3-N	243[C]	ASP	11.2
1	4-N	243[D]	ASP	11.2
1	1-K	249[A]	PHE	11.2
1	2-K	249[B]	PHE	11.2
1	3-K	249[C]	PHE	11.2
1	4-K	249[D]	PHE	11.2
1	1-I	82[A]	TRP	11.2
1	2-I	82[B]	TRP	11.2
1	3-I	82[C]	TRP	11.2
1	4-I	82[D]	TRP	11.2
1	1-K	24[A]	LEU	11.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-K	24[B]	LEU	11.2
1	3-K	24[C]	LEU	11.2
1	4-K	24[D]	LEU	11.2
1	1-O	195[A]	VAL	11.2
1	2-O	195[B]	VAL	11.2
1	3-O	195[C]	VAL	11.2
1	4-O	195[D]	VAL	11.2
1	1-N	197[A]	LEU	11.1
1	2-N	197[B]	LEU	11.1
1	3-N	197[C]	LEU	11.1
1	4-N	197[D]	LEU	11.1
1	1-M	289[A]	ILE	11.1
1	2-M	289[B]	ILE	11.1
1	3-M	289[C]	ILE	11.1
1	4-M	289[D]	ILE	11.1
1	1-L	273[A]	GLU	11.1
1	2-L	273[B]	GLU	11.1
1	3-L	273[C]	GLU	11.1
1	4-L	273[D]	GLU	11.1
1	1-I	114[A]	GLY	11.1
1	2-I	114[B]	GLY	11.1
1	3-I	114[C]	GLY	11.1
1	4-I	114[D]	GLY	11.1
1	1-K	115[A]	LEU	11.1
1	2-K	115[B]	LEU	11.1
1	3-K	115[C]	LEU	11.1
1	4-K	115[D]	LEU	11.1
1	1-K	218[A]	CYS	11.1
1	2-K	218[B]	CYS	11.1
1	3-K	218[C]	CYS	11.1
1	4-K	218[D]	CYS	11.1
1	1-I	239[A]	ALA	11.1
1	2-I	239[B]	ALA	11.1
1	3-I	239[C]	ALA	11.1
1	4-I	239[D]	ALA	11.1
1	1-O	126[A]	VAL	11.1
1	2-O	126[B]	VAL	11.1
1	3-O	126[C]	VAL	11.1
1	4-O	126[D]	VAL	11.1
1	1-P	212[A]	LEU	11.1
1	2-P	212[B]	LEU	11.1
1	3-P	212[C]	LEU	11.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-P	212[D]	LEU	11.1
1	1-N	111[A]	GLU	11.1
1	2-N	111[B]	GLU	11.1
1	3-N	111[C]	GLU	11.1
1	4-N	111[D]	GLU	11.1
1	1-L	47[A]	ALA	11.1
1	2-L	47[B]	ALA	11.1
1	3-L	47[C]	ALA	11.1
1	4-L	47[D]	ALA	11.1
1	1-K	167[A]	ARG	11.0
1	2-K	167[B]	ARG	11.0
1	3-K	167[C]	ARG	11.0
1	4-K	167[D]	ARG	11.0
1	1-I	64[A]	PRO	11.0
1	2-I	64[B]	PRO	11.0
1	3-I	64[C]	PRO	11.0
1	4-I	64[D]	PRO	11.0
1	1-I	234[A]	LEU	11.0
1	1-N	244[A]	THR	11.0
1	2-I	234[B]	LEU	11.0
1	2-N	244[B]	THR	11.0
1	3-I	234[C]	LEU	11.0
1	3-N	244[C]	THR	11.0
1	4-I	234[D]	LEU	11.0
1	4-N	244[D]	THR	11.0
1	1-N	266[A]	LEU	11.0
1	2-N	266[B]	LEU	11.0
1	3-N	266[C]	LEU	11.0
1	4-N	266[D]	LEU	11.0
1	1-L	189[A]	MET	11.0
1	2-L	189[B]	MET	11.0
1	3-L	189[C]	MET	11.0
1	4-L	189[D]	MET	11.0
1	1-J	46[A]	VAL	11.0
1	2-J	46[B]	VAL	11.0
1	3-J	46[C]	VAL	11.0
1	4-J	46[D]	VAL	11.0
1	1-K	270[A]	LEU	11.0
1	1-O	115[A]	LEU	11.0
1	2-K	270[B]	LEU	11.0
1	2-O	115[B]	LEU	11.0
1	3-K	270[C]	LEU	11.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-O	115[C]	LEU	11.0
1	4-K	270[D]	LEU	11.0
1	4-O	115[D]	LEU	11.0
1	1-M	31[A]	ILE	11.0
1	2-M	31[B]	ILE	11.0
1	3-M	31[C]	ILE	11.0
1	4-M	31[D]	ILE	11.0
1	1-K	98[A]	VAL	10.9
1	2-K	98[B]	VAL	10.9
1	3-K	98[C]	VAL	10.9
1	4-K	98[D]	VAL	10.9
1	1-P	41[A]	THR	10.9
1	2-P	41[B]	THR	10.9
1	3-P	41[C]	THR	10.9
1	4-P	41[D]	THR	10.9
1	1-K	240[A]	LEU	10.9
1	2-K	240[B]	LEU	10.9
1	3-K	240[C]	LEU	10.9
1	4-K	240[D]	LEU	10.9
1	1-P	33[A]	VAL	10.9
1	2-P	33[B]	VAL	10.9
1	3-P	33[C]	VAL	10.9
1	4-P	33[D]	VAL	10.9
1	1-I	151[A]	ASP	10.9
1	2-I	151[B]	ASP	10.9
1	3-I	151[C]	ASP	10.9
1	4-I	151[D]	ASP	10.9
1	1-O	199[A]	PRO	10.9
1	2-O	199[B]	PRO	10.9
1	3-O	199[C]	PRO	10.9
1	4-O	199[D]	PRO	10.9
1	1-J	302[A]	VAL	10.9
1	2-J	302[B]	VAL	10.9
1	3-J	302[C]	VAL	10.9
1	4-J	302[D]	VAL	10.9
1	1-P	226[A]	PHE	10.9
1	2-P	226[B]	PHE	10.9
1	3-P	226[C]	PHE	10.9
1	4-P	226[D]	PHE	10.9
1	1-M	77[A]	ILE	10.8
1	1-M	143[A]	GLY	10.8
1	2-M	77[B]	ILE	10.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-M	143[B]	GLY	10.8
1	3-M	77[C]	ILE	10.8
1	3-M	143[C]	GLY	10.8
1	4-M	77[D]	ILE	10.8
1	4-M	143[D]	GLY	10.8
1	1-I	305[A]	TYR	10.8
1	2-I	305[B]	TYR	10.8
1	3-I	305[C]	TYR	10.8
1	4-I	305[D]	TYR	10.8
1	1-J	285[A]	SER	10.8
1	2-J	285[B]	SER	10.8
1	3-J	285[C]	SER	10.8
1	4-J	285[D]	SER	10.8
1	1-M	27[A]	ILE	10.8
1	2-M	27[B]	ILE	10.8
1	3-M	27[C]	ILE	10.8
1	4-M	27[D]	ILE	10.8
1	1-I	212[A]	LEU	10.8
1	2-I	212[B]	LEU	10.8
1	3-I	212[C]	LEU	10.8
1	4-I	212[D]	LEU	10.8
1	1-L	43[A]	THR	10.8
1	2-L	43[B]	THR	10.8
1	3-L	43[C]	THR	10.8
1	4-L	43[D]	THR	10.8
1	1-M	311[A]	ILE	10.8
1	2-M	311[B]	ILE	10.8
1	3-M	311[C]	ILE	10.8
1	4-M	311[D]	ILE	10.8
1	1-L	204[A]	GLY	10.8
1	2-L	204[B]	GLY	10.8
1	3-L	204[C]	GLY	10.8
1	4-L	204[D]	GLY	10.8
1	1-I	206[A]	LYS	10.8
1	2-I	206[B]	LYS	10.8
1	3-I	206[C]	LYS	10.8
1	4-I	206[D]	LYS	10.8
1	1-M	170[A]	ILE	10.8
1	2-M	170[B]	ILE	10.8
1	3-M	170[C]	ILE	10.8
1	4-M	170[D]	ILE	10.8
1	1-I	231[A]	TYR	10.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-I	231[B]	TYR	10.8
1	3-I	231[C]	TYR	10.8
1	4-I	231[D]	TYR	10.8
1	1-N	113[A]	VAL	10.8
1	2-N	113[B]	VAL	10.8
1	3-N	113[C]	VAL	10.8
1	4-N	113[D]	VAL	10.8
1	1-L	256[A]	ALA	10.7
1	2-L	256[B]	ALA	10.7
1	3-L	256[C]	ALA	10.7
1	4-L	256[D]	ALA	10.7
1	1-J	105[A]	GLY	10.7
1	2-J	105[B]	GLY	10.7
1	3-J	105[C]	GLY	10.7
1	4-J	105[D]	GLY	10.7
1	1-K	239[A]	ALA	10.7
1	1-P	183[A]	ALA	10.7
1	2-K	239[B]	ALA	10.7
1	2-P	183[B]	ALA	10.7
1	3-K	239[C]	ALA	10.7
1	3-P	183[C]	ALA	10.7
1	4-K	239[D]	ALA	10.7
1	4-P	183[D]	ALA	10.7
1	1-J	63[A]	LEU	10.7
1	2-J	63[B]	LEU	10.7
1	3-J	63[C]	LEU	10.7
1	4-J	63[D]	LEU	10.7
1	1-K	226[A]	PHE	10.7
1	2-K	226[B]	PHE	10.7
1	3-K	226[C]	PHE	10.7
1	4-K	226[D]	PHE	10.7
1	1-O	166[A]	ASP	10.7
1	2-O	166[B]	ASP	10.7
1	3-O	166[C]	ASP	10.7
1	4-O	166[D]	ASP	10.7
1	1-J	135[A]	GLY	10.7
1	2-J	135[B]	GLY	10.7
1	3-J	135[C]	GLY	10.7
1	4-J	135[D]	GLY	10.7
1	1-O	196[A]	SER	10.7
1	2-O	196[B]	SER	10.7
1	3-O	196[C]	SER	10.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-O	196[D]	SER	10.7
1	1-K	295[A]	PHE	10.7
1	2-K	295[B]	PHE	10.7
1	3-K	295[C]	PHE	10.7
1	4-K	295[D]	PHE	10.7
1	1-J	259[A]	TYR	10.7
1	2-J	259[B]	TYR	10.7
1	3-J	259[C]	TYR	10.7
1	4-J	259[D]	TYR	10.7
1	1-L	173[A]	ALA	10.7
1	2-L	173[B]	ALA	10.7
1	3-L	173[C]	ALA	10.7
1	4-L	173[D]	ALA	10.7
1	1-O	285[A]	SER	10.7
1	2-O	285[B]	SER	10.7
1	3-O	285[C]	SER	10.7
1	4-O	285[D]	SER	10.7
1	1-P	87[A]	CYS	10.7
1	2-P	87[B]	CYS	10.7
1	3-P	87[C]	CYS	10.7
1	4-P	87[D]	CYS	10.7
1	1-I	43[A]	THR	10.6
1	2-I	43[B]	THR	10.6
1	3-I	43[C]	THR	10.6
1	4-I	43[D]	THR	10.6
1	1-L	199[A]	PRO	10.6
1	1-O	203[A]	PRO	10.6
1	2-L	199[B]	PRO	10.6
1	2-O	203[B]	PRO	10.6
1	3-L	199[C]	PRO	10.6
1	3-O	203[C]	PRO	10.6
1	4-L	199[D]	PRO	10.6
1	4-O	203[D]	PRO	10.6
1	1-N	63[A]	LEU	10.6
1	2-N	63[B]	LEU	10.6
1	3-N	63[C]	LEU	10.6
1	4-N	63[D]	LEU	10.6
1	1-I	48[A]	LEU	10.6
1	1-K	179[A]	LEU	10.6
1	1-O	228[A]	ILE	10.6
1	2-I	48[B]	LEU	10.6
1	2-K	179[B]	LEU	10.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-O	228[B]	ILE	10.6
1	3-I	48[C]	LEU	10.6
1	3-K	179[C]	LEU	10.6
1	3-O	228[C]	ILE	10.6
1	4-I	48[D]	LEU	10.6
1	4-K	179[D]	LEU	10.6
1	4-O	228[D]	ILE	10.6
1	1-K	138[A]	TYR	10.6
1	1-L	34[A]	GLY	10.6
1	2-K	138[B]	TYR	10.6
1	2-L	34[B]	GLY	10.6
1	3-K	138[C]	TYR	10.6
1	3-L	34[C]	GLY	10.6
1	4-K	138[D]	TYR	10.6
1	4-L	34[D]	GLY	10.6
1	1-I	243[A]	ASP	10.6
1	2-I	243[B]	ASP	10.6
1	3-I	243[C]	ASP	10.6
1	4-I	243[D]	ASP	10.6
1	1-O	224[A]	VAL	10.6
1	2-O	224[B]	VAL	10.6
1	3-O	224[C]	VAL	10.6
1	4-O	224[D]	VAL	10.6
1	1-I	115[A]	LEU	10.5
1	2-I	115[B]	LEU	10.5
1	3-I	115[C]	LEU	10.5
1	4-I	115[D]	LEU	10.5
1	1-M	309[A]	GLY	10.5
1	2-M	309[B]	GLY	10.5
1	3-M	309[C]	GLY	10.5
1	4-M	309[D]	GLY	10.5
1	1-O	242[A]	THR	10.5
1	2-O	242[B]	THR	10.5
1	3-O	242[C]	THR	10.5
1	4-O	242[D]	THR	10.5
1	1-K	301[A]	VAL	10.5
1	2-K	301[B]	VAL	10.5
1	3-K	301[C]	VAL	10.5
1	4-K	301[D]	VAL	10.5
1	1-L	127[A]	TYR	10.5
1	2-L	127[B]	TYR	10.5
1	3-L	127[C]	TYR	10.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-L	127[D]	TYR	10.5
1	1-I	205[A]	SER	10.5
1	2-I	205[B]	SER	10.5
1	3-I	205[C]	SER	10.5
1	4-I	205[D]	SER	10.5
1	1-M	291[A]	ASP	10.5
1	2-M	291[B]	ASP	10.5
1	3-M	291[C]	ASP	10.5
1	4-M	291[D]	ASP	10.5
1	1-L	253[A]	MET	10.5
1	2-L	253[B]	MET	10.5
1	3-L	253[C]	MET	10.5
1	4-L	253[D]	MET	10.5
1	1-P	184[A]	LEU	10.5
1	2-P	184[B]	LEU	10.5
1	3-P	184[C]	LEU	10.5
1	4-P	184[D]	LEU	10.5
1	1-L	218[A]	CYS	10.5
1	2-L	218[B]	CYS	10.5
1	3-L	218[C]	CYS	10.5
1	4-L	218[D]	CYS	10.5
1	1-I	169[A]	ILE	10.5
1	1-O	294[A]	GLY	10.5
1	2-I	169[B]	ILE	10.5
1	2-O	294[B]	GLY	10.5
1	3-I	169[C]	ILE	10.5
1	3-O	294[C]	GLY	10.5
1	4-I	169[D]	ILE	10.5
1	4-O	294[D]	GLY	10.5
1	1-I	127[A]	TYR	10.5
1	2-I	127[B]	TYR	10.5
1	3-I	127[C]	TYR	10.5
1	4-I	127[D]	TYR	10.5
1	1-H	202[A]	SER	10.5
1	2-H	202[B]	SER	10.5
1	3-H	202[C]	SER	10.5
1	4-H	202[D]	SER	10.5
1	1-O	197[A]	LEU	10.5
1	1-P	92[A]	MET	10.5
1	2-O	197[B]	LEU	10.5
1	2-P	92[B]	MET	10.5
1	3-O	197[C]	LEU	10.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-P	92[C]	MET	10.5
1	4-O	197[D]	LEU	10.5
1	4-P	92[D]	MET	10.5
1	1-N	126[A]	VAL	10.5
1	2-N	126[B]	VAL	10.5
1	3-N	126[C]	VAL	10.5
1	4-N	126[D]	VAL	10.5
1	1-I	101[A]	TRP	10.5
1	2-I	101[B]	TRP	10.5
1	3-I	101[C]	TRP	10.5
1	4-I	101[D]	TRP	10.5
1	1-O	280[A]	LEU	10.5
1	2-O	280[B]	LEU	10.5
1	3-O	280[C]	LEU	10.5
1	4-O	280[D]	LEU	10.5
1	1-M	299[A]	ASP	10.5
1	2-M	299[B]	ASP	10.5
1	3-M	299[C]	ASP	10.5
1	4-M	299[D]	ASP	10.5
1	1-K	198[A]	PRO	10.4
1	2-K	198[B]	PRO	10.4
1	3-K	198[C]	PRO	10.4
1	4-K	198[D]	PRO	10.4
1	1-P	302[A]	VAL	10.4
1	2-P	302[B]	VAL	10.4
1	3-P	302[C]	VAL	10.4
1	4-P	302[D]	VAL	10.4
1	1-K	266[A]	LEU	10.4
1	2-K	266[B]	LEU	10.4
1	3-K	266[C]	LEU	10.4
1	4-K	266[D]	LEU	10.4
1	1-M	43[A]	THR	10.4
1	2-M	43[B]	THR	10.4
1	3-M	43[C]	THR	10.4
1	4-M	43[D]	THR	10.4
1	1-N	211[A]	CYS	10.4
1	2-N	211[B]	CYS	10.4
1	3-N	211[C]	CYS	10.4
1	4-N	211[D]	CYS	10.4
1	1-M	23[A]	TYR	10.4
1	2-M	23[B]	TYR	10.4
1	3-M	23[C]	TYR	10.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-M	23[D]	TYR	10.4
1	1-L	104[A]	ASN	10.4
1	2-L	104[B]	ASN	10.4
1	3-L	104[C]	ASN	10.4
1	4-L	104[D]	ASN	10.4
1	1-L	58[A]	LEU	10.4
1	2-L	58[B]	LEU	10.4
1	3-L	58[C]	LEU	10.4
1	4-L	58[D]	LEU	10.4
1	1-J	95[A]	SER	10.4
1	2-J	95[B]	SER	10.4
1	3-J	95[C]	SER	10.4
1	4-J	95[D]	SER	10.4
1	1-L	136[A]	ALA	10.3
1	2-L	136[B]	ALA	10.3
1	3-L	136[C]	ALA	10.3
1	4-L	136[D]	ALA	10.3
1	1-O	300[A]	PHE	10.3
1	2-O	300[B]	PHE	10.3
1	3-O	300[C]	PHE	10.3
1	4-O	300[D]	PHE	10.3
1	1-J	175[A]	ASN	10.3
1	2-J	175[B]	ASN	10.3
1	3-J	175[C]	ASN	10.3
1	4-J	175[D]	ASN	10.3
1	1-O	41[A]	THR	10.3
1	2-O	41[B]	THR	10.3
1	3-O	41[C]	THR	10.3
1	4-O	41[D]	THR	10.3
1	1-I	16[A]	PRO	10.3
1	2-I	16[B]	PRO	10.3
1	3-I	16[C]	PRO	10.3
1	4-I	16[D]	PRO	10.3
1	1-M	300[A]	PHE	10.3
1	2-M	300[B]	PHE	10.3
1	3-M	300[C]	PHE	10.3
1	4-M	300[D]	PHE	10.3
1	1-K	53[A]	SER	10.3
1	2-K	53[B]	SER	10.3
1	3-K	53[C]	SER	10.3
1	4-K	53[D]	SER	10.3
1	1-M	266[A]	LEU	10.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-M	266[B]	LEU	10.3
1	3-M	266[C]	LEU	10.3
1	4-M	266[D]	LEU	10.3
1	1-I	77[A]	ILE	10.3
1	2-I	77[B]	ILE	10.3
1	3-I	77[C]	ILE	10.3
1	4-I	77[D]	ILE	10.3
1	1-N	195[A]	VAL	10.3
1	2-N	195[B]	VAL	10.3
1	3-N	195[C]	VAL	10.3
1	4-N	195[D]	VAL	10.3
1	1-L	175[A]	ASN	10.3
1	2-L	175[B]	ASN	10.3
1	3-L	175[C]	ASN	10.3
1	4-L	175[D]	ASN	10.3
1	1-M	317[A]	ALA	10.2
1	2-M	317[B]	ALA	10.2
1	3-M	317[C]	ALA	10.2
1	4-M	317[D]	ALA	10.2
1	1-I	167[A]	ARG	10.2
1	1-N	302[A]	VAL	10.2
1	2-I	167[B]	ARG	10.2
1	2-N	302[B]	VAL	10.2
1	3-I	167[C]	ARG	10.2
1	3-N	302[C]	VAL	10.2
1	4-I	167[D]	ARG	10.2
1	4-N	302[D]	VAL	10.2
1	1-N	16[A]	PRO	10.2
1	1-O	81[A]	LEU	10.2
1	2-N	16[B]	PRO	10.2
1	2-O	81[B]	LEU	10.2
1	3-N	16[C]	PRO	10.2
1	3-O	81[C]	LEU	10.2
1	4-N	16[D]	PRO	10.2
1	4-O	81[D]	LEU	10.2
1	1-K	103[A]	GLY	10.2
1	1-K	128[A]	GLY	10.2
1	2-K	103[B]	GLY	10.2
1	2-K	128[B]	GLY	10.2
1	3-K	103[C]	GLY	10.2
1	3-K	128[C]	GLY	10.2
1	4-K	103[D]	GLY	10.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-K	128[D]	GLY	10.2
1	1-J	58[A]	LEU	10.2
1	1-O	214[A]	TYR	10.2
1	2-J	58[B]	LEU	10.2
1	2-O	214[B]	TYR	10.2
1	3-J	58[C]	LEU	10.2
1	3-O	214[C]	TYR	10.2
1	4-J	58[D]	LEU	10.2
1	4-O	214[D]	TYR	10.2
1	1-N	109[A]	PHE	10.2
1	2-N	109[B]	PHE	10.2
1	3-N	109[C]	PHE	10.2
1	4-N	109[D]	PHE	10.2
1	1-M	86[A]	GLY	10.2
1	2-M	86[B]	GLY	10.2
1	3-M	86[C]	GLY	10.2
1	4-M	86[D]	GLY	10.2
1	1-N	138[A]	TYR	10.2
1	1-N	209[A]	LEU	10.2
1	2-N	138[B]	TYR	10.2
1	2-N	209[B]	LEU	10.2
1	3-N	138[C]	TYR	10.2
1	3-N	209[C]	LEU	10.2
1	4-N	138[D]	TYR	10.2
1	4-N	209[D]	LEU	10.2
1	1-P	139[A]	THR	10.2
1	2-P	139[B]	THR	10.2
1	3-P	139[C]	THR	10.2
1	4-P	139[D]	THR	10.2
1	1-J	280[A]	LEU	10.2
1	2-J	280[B]	LEU	10.2
1	3-J	280[C]	LEU	10.2
1	4-J	280[D]	LEU	10.2
1	1-K	145[A]	TYR	10.1
1	2-K	145[B]	TYR	10.1
1	3-K	145[C]	TYR	10.1
1	4-K	145[D]	TYR	10.1
1	1-O	79[A]	GLU	10.1
1	2-O	79[B]	GLU	10.1
1	3-O	79[C]	GLU	10.1
1	4-O	79[D]	GLU	10.1
1	1-I	224[A]	VAL	10.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-I	224[B]	VAL	10.1
1	3-I	224[C]	VAL	10.1
1	4-I	224[D]	VAL	10.1
1	1-P	232[A]	ALA	10.1
1	2-P	232[B]	ALA	10.1
1	3-P	232[C]	ALA	10.1
1	4-P	232[D]	ALA	10.1
1	1-J	162[A]	ASN	10.1
1	2-J	162[B]	ASN	10.1
1	3-J	162[C]	ASN	10.1
1	4-J	162[D]	ASN	10.1
1	1-O	63[A]	LEU	10.1
1	2-O	63[B]	LEU	10.1
1	3-O	63[C]	LEU	10.1
1	4-O	63[D]	LEU	10.1
1	1-M	67[A]	THR	10.1
1	2-M	67[B]	THR	10.1
1	3-M	67[C]	THR	10.1
1	4-M	67[D]	THR	10.1
1	1-K	265[A]	PRO	10.1
1	2-K	265[B]	PRO	10.1
1	3-K	265[C]	PRO	10.1
1	4-K	265[D]	PRO	10.1
1	1-I	210[A]	SER	10.0
1	2-I	210[B]	SER	10.0
1	3-I	210[C]	SER	10.0
1	4-I	210[D]	SER	10.0
1	1-N	108[A]	GLU	10.0
1	2-N	108[B]	GLU	10.0
1	3-N	108[C]	GLU	10.0
1	4-N	108[D]	GLU	10.0
1	1-M	296[A]	LYS	10.0
1	2-M	296[B]	LYS	10.0
1	3-M	296[C]	LYS	10.0
1	4-M	296[D]	LYS	10.0
1	1-K	33[A]	VAL	10.0
1	2-K	33[B]	VAL	10.0
1	3-K	33[C]	VAL	10.0
1	4-K	33[D]	VAL	10.0
1	1-P	103[A]	GLY	10.0
1	2-P	103[B]	GLY	10.0
1	3-P	103[C]	GLY	10.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-P	103[D]	GLY	10.0
1	1-J	119[A]	ARG	10.0
1	1-L	110[A]	LEU	10.0
1	2-J	119[B]	ARG	10.0
1	2-L	110[B]	LEU	10.0
1	3-J	119[C]	ARG	10.0
1	3-L	110[C]	LEU	10.0
1	4-J	119[D]	ARG	10.0
1	4-L	110[D]	LEU	10.0
1	1-I	225[A]	PRO	10.0
1	2-I	225[B]	PRO	10.0
1	3-I	225[C]	PRO	10.0
1	4-I	225[D]	PRO	10.0
1	1-P	84[A]	VAL	10.0
1	2-P	84[B]	VAL	10.0
1	3-P	84[C]	VAL	10.0
1	4-P	84[D]	VAL	10.0
1	1-N	234[A]	LEU	10.0
1	1-O	194[A]	PHE	10.0
1	2-N	234[B]	LEU	10.0
1	2-O	194[B]	PHE	10.0
1	3-N	234[C]	LEU	10.0
1	3-O	194[C]	PHE	10.0
1	4-N	234[D]	LEU	10.0
1	4-O	194[D]	PHE	10.0
1	1-M	312[A]	ASP	10.0
1	2-M	312[B]	ASP	10.0
1	3-M	312[C]	ASP	10.0
1	4-M	312[D]	ASP	10.0
1	1-P	105[A]	GLY	9.9
1	2-P	105[B]	GLY	9.9
1	3-P	105[C]	GLY	9.9
1	4-P	105[D]	GLY	9.9
1	1-M	30[A]	ILE	9.9
1	1-O	110[A]	LEU	9.9
1	2-M	30[B]	ILE	9.9
1	2-O	110[B]	LEU	9.9
1	3-M	30[C]	ILE	9.9
1	3-O	110[C]	LEU	9.9
1	4-M	30[D]	ILE	9.9
1	4-O	110[D]	LEU	9.9
1	1-K	108[A]	GLU	9.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-K	108[B]	GLU	9.9
1	3-K	108[C]	GLU	9.9
1	4-K	108[D]	GLU	9.9
1	1-L	268[A]	THR	9.9
1	2-L	268[B]	THR	9.9
1	3-L	268[C]	THR	9.9
1	4-L	268[D]	THR	9.9
1	1-P	143[A]	GLY	9.9
1	2-P	143[B]	GLY	9.9
1	3-P	143[C]	GLY	9.9
1	4-P	143[D]	GLY	9.9
1	1-I	258[A]	VAL	9.9
1	2-I	258[B]	VAL	9.9
1	3-I	258[C]	VAL	9.9
1	4-I	258[D]	VAL	9.9
1	1-N	215[A]	GLN	9.9
1	2-N	215[B]	GLN	9.9
1	3-N	215[C]	GLN	9.9
1	4-N	215[D]	GLN	9.9
1	1-M	89[A]	ASP	9.9
1	2-M	89[B]	ASP	9.9
1	3-M	89[C]	ASP	9.9
1	4-M	89[D]	ASP	9.9
1	1-J	103[A]	GLY	9.9
1	2-J	103[B]	GLY	9.9
1	3-J	103[C]	GLY	9.9
1	4-J	103[D]	GLY	9.9
1	1-M	195[A]	VAL	9.9
1	1-M	295[A]	PHE	9.9
1	2-M	195[B]	VAL	9.9
1	2-M	295[B]	PHE	9.9
1	3-M	195[C]	VAL	9.9
1	3-M	295[C]	PHE	9.9
1	4-M	195[D]	VAL	9.9
1	4-M	295[D]	PHE	9.9
1	1-I	238[A]	ILE	9.9
1	2-I	238[B]	ILE	9.9
1	3-I	238[C]	ILE	9.9
1	4-I	238[D]	ILE	9.9
1	1-M	310[A]	LYS	9.9
1	2-M	310[B]	LYS	9.9
1	3-M	310[C]	LYS	9.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-M	310[D]	LYS	9.9
1	1-M	76[A]	VAL	9.9
1	1-P	63[A]	LEU	9.9
1	2-M	76[B]	VAL	9.9
1	2-P	63[B]	LEU	9.9
1	3-M	76[C]	VAL	9.9
1	3-P	63[C]	LEU	9.9
1	4-M	76[D]	VAL	9.9
1	4-P	63[D]	LEU	9.9
1	1-O	265[A]	PRO	9.9
1	2-O	265[B]	PRO	9.9
1	3-O	265[C]	PRO	9.9
1	4-O	265[D]	PRO	9.9
1	1-J	131[A]	TRP	9.9
1	1-O	131[A]	TRP	9.9
1	2-J	131[B]	TRP	9.9
1	2-O	131[B]	TRP	9.9
1	3-J	131[C]	TRP	9.9
1	3-O	131[C]	TRP	9.9
1	4-J	131[D]	TRP	9.9
1	4-O	131[D]	TRP	9.9
1	1-L	126[A]	VAL	9.8
1	2-L	126[B]	VAL	9.8
1	3-L	126[C]	VAL	9.8
1	4-L	126[D]	VAL	9.8
1	1-L	251[A]	LEU	9.8
1	2-L	251[B]	LEU	9.8
1	3-L	251[C]	LEU	9.8
1	4-L	251[D]	LEU	9.8
1	1-J	16[A]	PRO	9.8
1	1-M	113[A]	VAL	9.8
1	2-J	16[B]	PRO	9.8
1	2-M	113[B]	VAL	9.8
1	3-J	16[C]	PRO	9.8
1	3-M	113[C]	VAL	9.8
1	4-J	16[D]	PRO	9.8
1	4-M	113[D]	VAL	9.8
1	1-N	34[A]	GLY	9.8
1	2-N	34[B]	GLY	9.8
1	3-N	34[C]	GLY	9.8
1	4-N	34[D]	GLY	9.8
1	1-M	305[A]	TYR	9.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-M	305[B]	TYR	9.8
1	3-M	305[C]	TYR	9.8
1	4-M	305[D]	TYR	9.8
1	1-N	309[A]	GLY	9.8
1	2-N	309[B]	GLY	9.8
1	3-N	309[C]	GLY	9.8
1	4-N	309[D]	GLY	9.8
1	1-H	201[A]	ASP	9.8
1	2-H	201[B]	ASP	9.8
1	3-H	201[C]	ASP	9.8
1	4-H	201[D]	ASP	9.8
1	1-O	33[A]	VAL	9.8
1	2-O	33[B]	VAL	9.8
1	3-O	33[C]	VAL	9.8
1	4-O	33[D]	VAL	9.8
1	1-O	311[A]	ILE	9.8
1	2-O	311[B]	ILE	9.8
1	3-O	311[C]	ILE	9.8
1	4-O	311[D]	ILE	9.8
1	1-P	312[A]	ASP	9.8
1	2-P	312[B]	ASP	9.8
1	3-P	312[C]	ASP	9.8
1	4-P	312[D]	ASP	9.8
1	1-I	32[A]	ASN	9.8
1	2-I	32[B]	ASN	9.8
1	3-I	32[C]	ASN	9.8
1	4-I	32[D]	ASN	9.8
1	1-K	169[A]	ILE	9.8
1	2-K	169[B]	ILE	9.8
1	3-K	169[C]	ILE	9.8
1	4-K	169[D]	ILE	9.8
1	1-O	225[A]	PRO	9.8
1	2-O	225[B]	PRO	9.8
1	3-O	225[C]	PRO	9.8
1	4-O	225[D]	PRO	9.8
1	1-J	204[A]	GLY	9.8
1	2-J	204[B]	GLY	9.8
1	3-J	204[C]	GLY	9.8
1	4-J	204[D]	GLY	9.8
1	1-M	165[A]	THR	9.7
1	1-N	145[A]	TYR	9.7
1	2-M	165[B]	THR	9.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-N	145[B]	TYR	9.7
1	3-M	165[C]	THR	9.7
1	3-N	145[C]	TYR	9.7
1	4-M	165[D]	THR	9.7
1	4-N	145[D]	TYR	9.7
1	1-K	26[A]	LEU	9.7
1	2-K	26[B]	LEU	9.7
1	3-K	26[C]	LEU	9.7
1	4-K	26[D]	LEU	9.7
1	1-K	134[A]	PHE	9.7
1	1-O	234[A]	LEU	9.7
1	2-K	134[B]	PHE	9.7
1	2-O	234[B]	LEU	9.7
1	3-K	134[C]	PHE	9.7
1	3-O	234[C]	LEU	9.7
1	4-K	134[D]	PHE	9.7
1	4-O	234[D]	LEU	9.7
1	1-N	48[A]	LEU	9.7
1	1-O	291[A]	ASP	9.7
1	2-N	48[B]	LEU	9.7
1	2-O	291[B]	ASP	9.7
1	3-N	48[C]	LEU	9.7
1	3-O	291[C]	ASP	9.7
1	4-N	48[D]	LEU	9.7
1	4-O	291[D]	ASP	9.7
1	1-I	38[A]	PRO	9.7
1	2-I	38[B]	PRO	9.7
1	3-I	38[C]	PRO	9.7
1	4-I	38[D]	PRO	9.7
1	1-K	194[A]	PHE	9.7
1	1-O	251[A]	LEU	9.7
1	2-K	194[B]	PHE	9.7
1	2-O	251[B]	LEU	9.7
1	3-K	194[C]	PHE	9.7
1	3-O	251[C]	LEU	9.7
1	4-K	194[D]	PHE	9.7
1	4-O	251[D]	LEU	9.7
1	1-N	254[A]	GLY	9.7
1	2-N	254[B]	GLY	9.7
1	3-N	254[C]	GLY	9.7
1	4-N	254[D]	GLY	9.7
1	1-L	36[A]	VAL	9.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-L	36[B]	VAL	9.7
1	3-L	36[C]	VAL	9.7
1	4-L	36[D]	VAL	9.7
1	1-I	311[A]	ILE	9.7
1	2-I	311[B]	ILE	9.7
1	3-I	311[C]	ILE	9.7
1	4-I	311[D]	ILE	9.7
1	1-K	253[A]	MET	9.7
1	2-K	253[B]	MET	9.7
1	3-K	253[C]	MET	9.7
1	4-K	253[D]	MET	9.7
1	1-M	98[A]	VAL	9.7
1	2-M	98[B]	VAL	9.7
1	3-M	98[C]	VAL	9.7
1	4-M	98[D]	VAL	9.7
1	1-K	241[A]	ILE	9.7
1	2-K	241[B]	ILE	9.7
1	3-K	241[C]	ILE	9.7
1	4-K	241[D]	ILE	9.7
1	1-O	84[A]	VAL	9.6
1	2-O	84[B]	VAL	9.6
1	3-O	84[C]	VAL	9.6
1	4-O	84[D]	VAL	9.6
1	1-K	294[A]	GLY	9.6
1	2-K	294[B]	GLY	9.6
1	3-K	294[C]	GLY	9.6
1	4-K	294[D]	GLY	9.6
1	1-J	198[A]	PRO	9.6
1	2-J	198[B]	PRO	9.6
1	3-J	198[C]	PRO	9.6
1	4-J	198[D]	PRO	9.6
1	1-N	241[A]	ILE	9.6
1	2-N	241[B]	ILE	9.6
1	3-N	241[C]	ILE	9.6
1	4-N	241[D]	ILE	9.6
1	1-N	280[A]	LEU	9.6
1	2-N	280[B]	LEU	9.6
1	3-N	280[C]	LEU	9.6
1	4-N	280[D]	LEU	9.6
1	1-P	47[A]	ALA	9.6
1	1-P	137[A]	GLU	9.6
1	2-P	47[B]	ALA	9.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-P	137[B]	GLU	9.6
1	3-P	47[C]	ALA	9.6
1	3-P	137[C]	GLU	9.6
1	4-P	47[D]	ALA	9.6
1	4-P	137[D]	GLU	9.6
1	1-L	250[A]	ILE	9.6
1	2-L	250[B]	ILE	9.6
1	3-L	250[C]	ILE	9.6
1	4-L	250[D]	ILE	9.6
1	1-I	197[A]	LEU	9.6
1	1-O	109[A]	PHE	9.6
1	2-I	197[B]	LEU	9.6
1	2-O	109[B]	PHE	9.6
1	3-I	197[C]	LEU	9.6
1	3-O	109[C]	PHE	9.6
1	4-I	197[D]	LEU	9.6
1	4-O	109[D]	PHE	9.6
1	1-M	238[A]	ILE	9.6
1	2-M	238[B]	ILE	9.6
1	3-M	238[C]	ILE	9.6
1	4-M	238[D]	ILE	9.6
1	1-L	193[A]	PHE	9.6
1	2-L	193[B]	PHE	9.6
1	3-L	193[C]	PHE	9.6
1	4-L	193[D]	PHE	9.6
1	1-M	127[A]	TYR	9.5
1	2-M	127[B]	TYR	9.5
1	3-M	127[C]	TYR	9.5
1	4-M	127[D]	TYR	9.5
1	1-P	19[A]	GLU	9.5
1	2-P	19[B]	GLU	9.5
1	3-P	19[C]	GLU	9.5
1	4-P	19[D]	GLU	9.5
1	1-L	109[A]	PHE	9.5
1	2-L	109[B]	PHE	9.5
1	3-L	109[C]	PHE	9.5
1	4-L	109[D]	PHE	9.5
1	1-J	246[A]	PRO	9.5
1	1-N	61[A]	ASN	9.5
1	2-J	246[B]	PRO	9.5
1	2-N	61[B]	ASN	9.5
1	3-J	246[C]	PRO	9.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-N	61[C]	ASN	9.5
1	4-J	246[D]	PRO	9.5
1	4-N	61[D]	ASN	9.5
1	1-L	74[A]	ARG	9.5
1	2-L	74[B]	ARG	9.5
1	3-L	74[C]	ARG	9.5
1	4-L	74[D]	ARG	9.5
1	1-K	242[A]	THR	9.5
1	2-K	242[B]	THR	9.5
1	3-K	242[C]	THR	9.5
1	4-K	242[D]	THR	9.5
1	1-J	308[A]	TRP	9.5
1	2-J	308[B]	TRP	9.5
1	3-J	308[C]	TRP	9.5
1	4-J	308[D]	TRP	9.5
1	1-I	36[A]	VAL	9.5
1	2-I	36[B]	VAL	9.5
1	3-I	36[C]	VAL	9.5
1	4-I	36[D]	VAL	9.5
1	1-P	128[A]	GLY	9.5
1	2-P	128[B]	GLY	9.5
1	3-P	128[C]	GLY	9.5
1	4-P	128[D]	GLY	9.5
1	1-K	262[A]	HIS	9.5
1	2-K	262[B]	HIS	9.5
1	3-K	262[C]	HIS	9.5
1	4-K	262[D]	HIS	9.5
1	1-I	45[A]	THR	9.5
1	2-I	45[B]	THR	9.5
1	3-I	45[C]	THR	9.5
1	4-I	45[D]	THR	9.5
1	1-L	50[A]	ALA	9.5
1	2-L	50[B]	ALA	9.5
1	3-L	50[C]	ALA	9.5
1	4-L	50[D]	ALA	9.5
1	1-K	197[A]	LEU	9.4
1	2-K	197[B]	LEU	9.4
1	3-K	197[C]	LEU	9.4
1	4-K	197[D]	LEU	9.4
1	1-N	214[A]	TYR	9.4
1	2-N	214[B]	TYR	9.4
1	3-N	214[C]	TYR	9.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-N	214[D]	TYR	9.4
1	1-I	118[A]	ARG	9.4
1	2-I	118[B]	ARG	9.4
1	3-I	118[C]	ARG	9.4
1	4-I	118[D]	ARG	9.4
1	1-N	161[A]	LYS	9.4
1	2-N	161[B]	LYS	9.4
1	3-N	161[C]	LYS	9.4
1	4-N	161[D]	LYS	9.4
1	1-J	251[A]	LEU	9.4
1	1-N	184[A]	LEU	9.4
1	1-N	253[A]	MET	9.4
1	2-J	251[B]	LEU	9.4
1	2-N	184[B]	LEU	9.4
1	2-N	253[B]	MET	9.4
1	3-J	251[C]	LEU	9.4
1	3-N	184[C]	LEU	9.4
1	3-N	253[C]	MET	9.4
1	4-J	251[D]	LEU	9.4
1	4-N	184[D]	LEU	9.4
1	4-N	253[D]	MET	9.4
1	1-L	76[A]	VAL	9.4
1	2-L	76[B]	VAL	9.4
1	3-L	76[C]	VAL	9.4
1	4-L	76[D]	VAL	9.4
1	1-M	90[A]	ALA	9.4
1	2-M	90[B]	ALA	9.4
1	3-M	90[C]	ALA	9.4
1	4-M	90[D]	ALA	9.4
1	1-P	64[A]	PRO	9.4
1	2-P	64[B]	PRO	9.4
1	3-P	64[C]	PRO	9.4
1	4-P	64[D]	PRO	9.4
1	1-J	292[A]	ILE	9.4
1	1-M	168[A]	ARG	9.4
1	2-J	292[B]	ILE	9.4
1	2-M	168[B]	ARG	9.4
1	3-J	292[C]	ILE	9.4
1	3-M	168[C]	ARG	9.4
1	4-J	292[D]	ILE	9.4
1	4-M	168[D]	ARG	9.4
1	1-P	248[A]	GLU	9.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-P	248[B]	GLU	9.4
1	3-P	248[C]	GLU	9.4
1	4-P	248[D]	GLU	9.4
1	1-N	165[A]	THR	9.4
1	2-N	165[B]	THR	9.4
1	3-N	165[C]	THR	9.4
1	4-N	165[D]	THR	9.4
1	1-P	21[A]	TYR	9.4
1	2-P	21[B]	TYR	9.4
1	3-P	21[C]	TYR	9.4
1	4-P	21[D]	TYR	9.4
1	1-M	199[A]	PRO	9.4
1	2-M	199[B]	PRO	9.4
1	3-M	199[C]	PRO	9.4
1	4-M	199[D]	PRO	9.4
1	1-O	106[A]	SER	9.4
1	2-O	106[B]	SER	9.4
1	3-O	106[C]	SER	9.4
1	4-O	106[D]	SER	9.4
1	1-I	161[A]	LYS	9.4
1	1-N	279[A]	LYS	9.4
1	2-I	161[B]	LYS	9.4
1	2-N	279[B]	LYS	9.4
1	3-I	161[C]	LYS	9.4
1	3-N	279[C]	LYS	9.4
1	4-I	161[D]	LYS	9.4
1	4-N	279[D]	LYS	9.4
1	1-N	204[A]	GLY	9.4
1	2-N	204[B]	GLY	9.4
1	3-N	204[C]	GLY	9.4
1	4-N	204[D]	GLY	9.4
1	1-J	297[A]	VAL	9.3
1	1-O	217[A]	SER	9.3
1	2-J	297[B]	VAL	9.3
1	2-O	217[B]	SER	9.3
1	3-J	297[C]	VAL	9.3
1	3-O	217[C]	SER	9.3
1	4-J	297[D]	VAL	9.3
1	4-O	217[D]	SER	9.3
1	1-N	17[A]	ASP	9.3
1	2-N	17[B]	ASP	9.3
1	3-N	17[C]	ASP	9.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-N	17[D]	ASP	9.3
1	1-P	95[A]	SER	9.3
1	2-P	95[B]	SER	9.3
1	3-P	95[C]	SER	9.3
1	4-P	95[D]	SER	9.3
1	1-N	54[A]	PHE	9.3
1	2-N	54[B]	PHE	9.3
1	3-N	54[C]	PHE	9.3
1	4-N	54[D]	PHE	9.3
1	1-J	281[A]	LYS	9.3
1	2-J	281[B]	LYS	9.3
1	3-J	281[C]	LYS	9.3
1	4-J	281[D]	LYS	9.3
1	1-P	50[A]	ALA	9.3
1	2-P	50[B]	ALA	9.3
1	3-P	50[C]	ALA	9.3
1	4-P	50[D]	ALA	9.3
1	1-P	223[A]	GLY	9.3
1	2-P	223[B]	GLY	9.3
1	3-P	223[C]	GLY	9.3
1	4-P	223[D]	GLY	9.3
1	1-M	26[A]	LEU	9.3
1	1-N	31[A]	ILE	9.3
1	1-O	48[A]	LEU	9.3
1	2-M	26[B]	LEU	9.3
1	2-N	31[B]	ILE	9.3
1	2-O	48[B]	LEU	9.3
1	3-M	26[C]	LEU	9.3
1	3-N	31[C]	ILE	9.3
1	3-O	48[C]	LEU	9.3
1	4-M	26[D]	LEU	9.3
1	4-N	31[D]	ILE	9.3
1	4-O	48[D]	LEU	9.3
1	1-M	226[A]	PHE	9.3
1	2-M	226[B]	PHE	9.3
1	3-M	226[C]	PHE	9.3
1	4-M	226[D]	PHE	9.3
1	1-J	159[A]	THR	9.3
1	1-O	66[A]	LEU	9.3
1	2-J	159[B]	THR	9.3
1	2-O	66[B]	LEU	9.3
1	3-J	159[C]	THR	9.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-O	66[C]	LEU	9.3
1	4-J	159[D]	THR	9.3
1	4-O	66[D]	LEU	9.3
1	1-M	209[A]	LEU	9.3
1	2-M	209[B]	LEU	9.3
1	3-M	209[C]	LEU	9.3
1	4-M	209[D]	LEU	9.3
1	1-K	289[A]	ILE	9.3
1	2-K	289[B]	ILE	9.3
1	3-K	289[C]	ILE	9.3
1	4-K	289[D]	ILE	9.3
1	1-P	283[A]	ALA	9.3
1	2-P	283[B]	ALA	9.3
1	3-P	283[C]	ALA	9.3
1	4-P	283[D]	ALA	9.3
1	1-L	224[A]	VAL	9.3
1	1-O	145[A]	TYR	9.3
1	2-L	224[B]	VAL	9.3
1	2-O	145[B]	TYR	9.3
1	3-L	224[C]	VAL	9.3
1	3-O	145[C]	TYR	9.3
1	4-L	224[D]	VAL	9.3
1	4-O	145[D]	TYR	9.3
1	1-M	44[A]	GLY	9.2
1	2-M	44[B]	GLY	9.2
1	3-M	44[C]	GLY	9.2
1	4-M	44[D]	GLY	9.2
1	1-P	131[A]	TRP	9.2
1	2-P	131[B]	TRP	9.2
1	3-P	131[C]	TRP	9.2
1	4-P	131[D]	TRP	9.2
1	1-O	38[A]	PRO	9.2
1	2-O	38[B]	PRO	9.2
1	3-O	38[C]	PRO	9.2
1	4-O	38[D]	PRO	9.2
1	1-I	280[A]	LEU	9.2
1	1-M	70[A]	ARG	9.2
1	2-I	280[B]	LEU	9.2
1	2-M	70[B]	ARG	9.2
1	3-I	280[C]	LEU	9.2
1	3-M	70[C]	ARG	9.2
1	4-I	280[D]	LEU	9.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-M	70[D]	ARG	9.2
1	1-I	141[A]	ALA	9.2
1	2-I	141[B]	ALA	9.2
1	3-I	141[C]	ALA	9.2
1	4-I	141[D]	ALA	9.2
1	1-O	315[A]	MET	9.2
1	2-O	315[B]	MET	9.2
1	3-O	315[C]	MET	9.2
1	4-O	315[D]	MET	9.2
1	1-J	78[A]	ALA	9.2
1	2-J	78[B]	ALA	9.2
1	3-J	78[C]	ALA	9.2
1	4-J	78[D]	ALA	9.2
1	1-P	276[A]	ASP	9.2
1	2-P	276[B]	ASP	9.2
1	3-P	276[C]	ASP	9.2
1	4-P	276[D]	ASP	9.2
1	1-L	183[A]	ALA	9.2
1	2-L	183[B]	ALA	9.2
1	3-L	183[C]	ALA	9.2
1	4-L	183[D]	ALA	9.2
1	1-J	27[A]	ILE	9.2
1	2-J	27[B]	ILE	9.2
1	3-J	27[C]	ILE	9.2
1	4-J	27[D]	ILE	9.2
1	1-M	112[A]	LYS	9.2
1	2-M	112[B]	LYS	9.2
1	3-M	112[C]	LYS	9.2
1	4-M	112[D]	LYS	9.2
1	1-J	139[A]	THR	9.2
1	2-J	139[B]	THR	9.2
1	3-J	139[C]	THR	9.2
1	4-J	139[D]	THR	9.2
1	1-J	186[A]	PRO	9.2
1	2-J	186[B]	PRO	9.2
1	3-J	186[C]	PRO	9.2
1	4-J	186[D]	PRO	9.2
1	1-K	260[A]	ARG	9.2
1	2-K	260[B]	ARG	9.2
1	3-K	260[C]	ARG	9.2
1	4-K	260[D]	ARG	9.2
1	1-I	134[A]	PHE	9.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-M	49[A]	PHE	9.2
1	1-O	129[A]	PHE	9.2
1	2-I	134[B]	PHE	9.2
1	2-M	49[B]	PHE	9.2
1	2-O	129[B]	PHE	9.2
1	3-I	134[C]	PHE	9.2
1	3-M	49[C]	PHE	9.2
1	3-O	129[C]	PHE	9.2
1	4-I	134[D]	PHE	9.2
1	4-M	49[D]	PHE	9.2
1	4-O	129[D]	PHE	9.2
1	1-N	286[A]	LYS	9.1
1	2-N	286[B]	LYS	9.1
1	3-N	286[C]	LYS	9.1
1	4-N	286[D]	LYS	9.1
1	1-I	195[A]	VAL	9.1
1	2-I	195[B]	VAL	9.1
1	3-I	195[C]	VAL	9.1
1	4-I	195[D]	VAL	9.1
1	1-L	233[A]	LEU	9.1
1	2-L	233[B]	LEU	9.1
1	3-L	233[C]	LEU	9.1
1	4-L	233[D]	LEU	9.1
1	1-K	268[A]	THR	9.1
1	2-K	268[B]	THR	9.1
1	3-K	268[C]	THR	9.1
1	4-K	268[D]	THR	9.1
1	1-M	203[A]	PRO	9.1
1	2-M	203[B]	PRO	9.1
1	3-M	203[C]	PRO	9.1
1	4-M	203[D]	PRO	9.1
1	1-O	160[A]	ILE	9.1
1	2-O	160[B]	ILE	9.1
1	3-O	160[C]	ILE	9.1
1	4-O	160[D]	ILE	9.1
1	1-K	141[A]	ALA	9.1
1	2-K	141[B]	ALA	9.1
1	3-K	141[C]	ALA	9.1
1	4-K	141[D]	ALA	9.1
1	1-M	265[A]	PRO	9.1
1	2-M	265[B]	PRO	9.1
1	3-M	265[C]	PRO	9.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-M	265[D]	PRO	9.1
1	1-I	209[A]	LEU	9.1
1	1-M	260[A]	ARG	9.1
1	2-I	209[B]	LEU	9.1
1	2-M	260[B]	ARG	9.1
1	3-I	209[C]	LEU	9.1
1	3-M	260[C]	ARG	9.1
1	4-I	209[D]	LEU	9.1
1	4-M	260[D]	ARG	9.1
1	1-P	34[A]	GLY	9.1
1	2-P	34[B]	GLY	9.1
1	3-P	34[C]	GLY	9.1
1	4-P	34[D]	GLY	9.1
1	1-N	316[A]	SER	9.1
1	2-N	316[B]	SER	9.1
1	3-N	316[C]	SER	9.1
1	4-N	316[D]	SER	9.1
1	1-P	265[A]	PRO	9.0
1	2-P	265[B]	PRO	9.0
1	3-P	265[C]	PRO	9.0
1	4-P	265[D]	PRO	9.0
1	1-I	108[A]	GLU	9.0
1	2-I	108[B]	GLU	9.0
1	3-I	108[C]	GLU	9.0
1	4-I	108[D]	GLU	9.0
1	1-O	190[A]	PHE	9.0
1	1-O	249[A]	PHE	9.0
1	2-O	190[B]	PHE	9.0
1	2-O	249[B]	PHE	9.0
1	3-O	190[C]	PHE	9.0
1	3-O	249[C]	PHE	9.0
1	4-O	190[D]	PHE	9.0
1	4-O	249[D]	PHE	9.0
1	1-J	301[A]	VAL	9.0
1	2-J	301[B]	VAL	9.0
1	3-J	301[C]	VAL	9.0
1	4-J	301[D]	VAL	9.0
1	1-L	155[A]	ARG	9.0
1	1-P	260[A]	ARG	9.0
1	2-L	155[B]	ARG	9.0
1	2-P	260[B]	ARG	9.0
1	3-L	155[C]	ARG	9.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-P	260[C]	ARG	9.0
1	4-L	155[D]	ARG	9.0
1	4-P	260[D]	ARG	9.0
1	1-L	75[A]	GLY	9.0
1	2-L	75[B]	GLY	9.0
1	3-L	75[C]	GLY	9.0
1	4-L	75[D]	GLY	9.0
1	1-I	109[A]	PHE	9.0
1	1-J	47[A]	ALA	9.0
1	2-I	109[B]	PHE	9.0
1	2-J	47[B]	ALA	9.0
1	3-I	109[C]	PHE	9.0
1	3-J	47[C]	ALA	9.0
1	4-I	109[D]	PHE	9.0
1	4-J	47[D]	ALA	9.0
1	1-I	41[A]	THR	9.0
1	2-I	41[B]	THR	9.0
1	3-I	41[C]	THR	9.0
1	4-I	41[D]	THR	9.0
1	1-J	147[A]	GLY	9.0
1	2-J	147[B]	GLY	9.0
1	3-J	147[C]	GLY	9.0
1	4-J	147[D]	GLY	9.0
1	1-P	173[A]	ALA	9.0
1	2-P	173[B]	ALA	9.0
1	3-P	173[C]	ALA	9.0
1	4-P	173[D]	ALA	9.0
1	1-P	110[A]	LEU	9.0
1	2-P	110[B]	LEU	9.0
1	3-P	110[C]	LEU	9.0
1	4-P	110[D]	LEU	9.0
1	1-O	299[A]	ASP	9.0
1	2-O	299[B]	ASP	9.0
1	3-O	299[C]	ASP	9.0
1	4-O	299[D]	ASP	9.0
1	1-L	71[A]	VAL	9.0
1	1-P	224[A]	VAL	9.0
1	2-L	71[B]	VAL	9.0
1	2-P	224[B]	VAL	9.0
1	3-L	71[C]	VAL	9.0
1	3-P	224[C]	VAL	9.0
1	4-L	71[D]	VAL	9.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-P	224[D]	VAL	9.0
1	1-P	190[A]	PHE	9.0
1	2-P	190[B]	PHE	9.0
1	3-P	190[C]	PHE	9.0
1	4-P	190[D]	PHE	9.0
1	1-N	220[A]	LEU	9.0
1	2-N	220[B]	LEU	9.0
1	3-N	220[C]	LEU	9.0
1	4-N	220[D]	LEU	9.0
1	1-I	128[A]	GLY	9.0
1	2-I	128[B]	GLY	9.0
1	3-I	128[C]	GLY	9.0
1	4-I	128[D]	GLY	9.0
1	1-L	145[A]	TYR	9.0
1	2-L	145[B]	TYR	9.0
1	3-L	145[C]	TYR	9.0
1	4-L	145[D]	TYR	9.0
1	1-K	165[A]	THR	9.0
1	1-N	256[A]	ALA	8.9
1	2-K	165[B]	THR	9.0
1	2-N	256[B]	ALA	8.9
1	3-K	165[C]	THR	9.0
1	3-N	256[C]	ALA	8.9
1	4-K	165[D]	THR	9.0
1	4-N	256[D]	ALA	8.9
1	1-K	109[A]	PHE	8.9
1	2-K	109[B]	PHE	8.9
1	3-K	109[C]	PHE	8.9
1	4-K	109[D]	PHE	8.9
1	1-K	124[A]	GLY	8.9
1	2-K	124[B]	GLY	8.9
1	3-K	124[C]	GLY	8.9
1	4-K	124[D]	GLY	8.9
1	1-O	46[A]	VAL	8.9
1	1-P	301[A]	VAL	8.9
1	2-O	46[B]	VAL	8.9
1	2-P	301[B]	VAL	8.9
1	3-O	46[C]	VAL	8.9
1	3-P	301[C]	VAL	8.9
1	4-O	46[D]	VAL	8.9
1	4-P	301[D]	VAL	8.9
1	1-I	29[A]	ARG	8.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-I	29[B]	ARG	8.9
1	3-I	29[C]	ARG	8.9
1	4-I	29[D]	ARG	8.9
1	1-N	144[A]	ASP	8.9
1	2-N	144[B]	ASP	8.9
1	3-N	144[C]	ASP	8.9
1	4-N	144[D]	ASP	8.9
1	1-J	121[A]	GLY	8.9
1	2-J	121[B]	GLY	8.9
1	3-J	121[C]	GLY	8.9
1	4-J	121[D]	GLY	8.9
1	1-N	240[A]	LEU	8.9
1	2-N	240[B]	LEU	8.9
1	3-N	240[C]	LEU	8.9
1	4-N	240[D]	LEU	8.9
1	1-I	17[A]	ASP	8.9
1	2-I	17[B]	ASP	8.9
1	3-I	17[C]	ASP	8.9
1	4-I	17[D]	ASP	8.9
1	1-I	21[A]	TYR	8.9
1	2-I	21[B]	TYR	8.9
1	3-I	21[C]	TYR	8.9
1	4-I	21[D]	TYR	8.9
1	1-K	234[A]	LEU	8.9
1	2-K	234[B]	LEU	8.9
1	3-K	234[C]	LEU	8.9
1	4-K	234[D]	LEU	8.9
1	1-L	33[A]	VAL	8.9
1	2-L	33[B]	VAL	8.9
1	3-L	33[C]	VAL	8.9
1	4-L	33[D]	VAL	8.9
1	1-N	43[A]	THR	8.9
1	2-N	43[B]	THR	8.9
1	3-N	43[C]	THR	8.9
1	4-N	43[D]	THR	8.9
1	1-M	108[A]	GLU	8.9
1	2-M	108[B]	GLU	8.9
1	3-M	108[C]	GLU	8.9
1	4-M	108[D]	GLU	8.9
1	1-K	209[A]	LEU	8.9
1	1-K	247[A]	HIS	8.9
1	1-N	147[A]	GLY	8.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-O	135[A]	GLY	8.9
1	2-K	209[B]	LEU	8.9
1	2-K	247[B]	HIS	8.9
1	2-N	147[B]	GLY	8.9
1	2-O	135[B]	GLY	8.9
1	3-K	209[C]	LEU	8.9
1	3-K	247[C]	HIS	8.9
1	3-N	147[C]	GLY	8.9
1	3-O	135[C]	GLY	8.9
1	4-K	209[D]	LEU	8.9
1	4-K	247[D]	HIS	8.9
1	4-N	147[D]	GLY	8.9
1	4-O	135[D]	GLY	8.9
1	1-M	132[A]	ARG	8.8
1	2-M	132[B]	ARG	8.8
1	3-M	132[C]	ARG	8.8
1	4-M	132[D]	ARG	8.8
1	1-N	46[A]	VAL	8.8
1	2-N	46[B]	VAL	8.8
1	3-N	46[C]	VAL	8.8
1	4-N	46[D]	VAL	8.8
1	1-O	139[A]	THR	8.8
1	2-O	139[B]	THR	8.8
1	3-O	139[C]	THR	8.8
1	4-O	139[D]	THR	8.8
1	1-K	146[A]	LYS	8.8
1	2-K	146[B]	LYS	8.8
1	3-K	146[C]	LYS	8.8
1	4-K	146[D]	LYS	8.8
1	1-P	157[A]	ILE	8.8
1	2-P	157[B]	ILE	8.8
1	3-P	157[C]	ILE	8.8
1	4-P	157[D]	ILE	8.8
1	1-K	297[A]	VAL	8.8
1	2-K	297[B]	VAL	8.8
1	3-K	297[C]	VAL	8.8
1	4-K	297[D]	VAL	8.8
1	1-N	196[A]	SER	8.8
1	2-N	196[B]	SER	8.8
1	3-N	196[C]	SER	8.8
1	4-N	196[D]	SER	8.8
1	1-L	65[A]	LEU	8.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-L	65[B]	LEU	8.8
1	3-L	65[C]	LEU	8.8
1	4-L	65[D]	LEU	8.8
1	1-I	244[A]	THR	8.8
1	1-K	87[A]	CYS	8.8
1	1-P	115[A]	LEU	8.8
1	2-I	244[B]	THR	8.8
1	2-K	87[B]	CYS	8.8
1	2-P	115[B]	LEU	8.8
1	3-I	244[C]	THR	8.8
1	3-K	87[C]	CYS	8.8
1	3-P	115[C]	LEU	8.8
1	4-I	244[D]	THR	8.8
1	4-K	87[D]	CYS	8.8
1	4-P	115[D]	LEU	8.8
1	1-K	143[A]	GLY	8.8
1	2-K	143[B]	GLY	8.8
1	3-K	143[C]	GLY	8.8
1	4-K	143[D]	GLY	8.8
1	1-L	181[A]	LEU	8.8
1	2-L	181[B]	LEU	8.8
1	3-L	181[C]	LEU	8.8
1	4-L	181[D]	LEU	8.8
1	1-O	156[A]	VAL	8.8
1	2-O	156[B]	VAL	8.8
1	3-O	156[C]	VAL	8.8
1	4-O	156[D]	VAL	8.8
1	1-J	21[A]	TYR	8.7
1	2-J	21[B]	TYR	8.7
1	3-J	21[C]	TYR	8.7
1	4-J	21[D]	TYR	8.7
1	1-M	142[A]	ASP	8.7
1	1-O	213[A]	MET	8.7
1	2-M	142[B]	ASP	8.7
1	2-O	213[B]	MET	8.7
1	3-M	142[C]	ASP	8.7
1	3-O	213[C]	MET	8.7
1	4-M	142[D]	ASP	8.7
1	4-O	213[D]	MET	8.7
1	1-P	31[A]	ILE	8.7
1	2-P	31[B]	ILE	8.7
1	3-P	31[C]	ILE	8.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-P	31[D]	ILE	8.7
1	1-J	286[A]	LYS	8.7
1	2-J	286[B]	LYS	8.7
1	3-J	286[C]	LYS	8.7
1	4-J	286[D]	LYS	8.7
1	1-M	146[A]	LYS	8.7
1	2-M	146[B]	LYS	8.7
1	3-M	146[C]	LYS	8.7
1	4-M	146[D]	LYS	8.7
1	1-N	217[A]	SER	8.7
1	2-N	217[B]	SER	8.7
1	3-N	217[C]	SER	8.7
1	4-N	217[D]	SER	8.7
1	1-K	244[A]	THR	8.7
1	2-K	244[B]	THR	8.7
1	3-K	244[C]	THR	8.7
1	4-K	244[D]	THR	8.7
1	1-J	28[A]	ARG	8.7
1	1-L	168[A]	ARG	8.7
1	2-J	28[B]	ARG	8.7
1	2-L	168[B]	ARG	8.7
1	3-J	28[C]	ARG	8.7
1	3-L	168[C]	ARG	8.7
1	4-J	28[D]	ARG	8.7
1	4-L	168[D]	ARG	8.7
1	1-I	302[A]	VAL	8.7
1	1-M	191[A]	CYS	8.7
1	2-I	302[B]	VAL	8.7
1	2-M	191[B]	CYS	8.7
1	3-I	302[C]	VAL	8.7
1	3-M	191[C]	CYS	8.7
1	4-I	302[D]	VAL	8.7
1	4-M	191[D]	CYS	8.7
1	1-J	174[A]	TRP	8.7
1	2-J	174[B]	TRP	8.7
1	3-J	174[C]	TRP	8.7
1	4-J	174[D]	TRP	8.7
1	1-L	159[A]	THR	8.7
1	2-L	159[B]	THR	8.7
1	3-L	159[C]	THR	8.7
1	4-L	159[D]	THR	8.7
1	1-L	31[A]	ILE	8.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-L	31[B]	ILE	8.7
1	3-L	31[C]	ILE	8.7
1	4-L	31[D]	ILE	8.7
1	1-O	16[A]	PRO	8.7
1	2-O	16[B]	PRO	8.7
1	3-O	16[C]	PRO	8.7
1	4-O	16[D]	PRO	8.7
1	1-J	178[A]	ASP	8.7
1	2-J	178[B]	ASP	8.7
1	3-J	178[C]	ASP	8.7
1	4-J	178[D]	ASP	8.7
1	1-J	187[A]	CYS	8.7
1	2-J	187[B]	CYS	8.7
1	3-J	187[C]	CYS	8.7
1	4-J	187[D]	CYS	8.7
1	1-K	231[A]	TYR	8.6
1	2-K	231[B]	TYR	8.6
1	3-K	231[C]	TYR	8.6
1	4-K	231[D]	TYR	8.6
1	1-N	250[A]	ILE	8.6
1	2-N	250[B]	ILE	8.6
1	3-N	250[C]	ILE	8.6
1	4-N	250[D]	ILE	8.6
1	1-K	191[A]	CYS	8.6
1	2-K	191[B]	CYS	8.6
1	3-K	191[C]	CYS	8.6
1	4-K	191[D]	CYS	8.6
1	1-O	134[A]	PHE	8.6
1	2-O	134[B]	PHE	8.6
1	3-O	134[C]	PHE	8.6
1	4-O	134[D]	PHE	8.6
1	1-M	158[A]	ASP	8.6
1	1-O	60[A]	ASP	8.6
1	2-M	158[B]	ASP	8.6
1	2-O	60[B]	ASP	8.6
1	3-M	158[C]	ASP	8.6
1	3-O	60[C]	ASP	8.6
1	4-M	158[D]	ASP	8.6
1	4-O	60[D]	ASP	8.6
1	1-O	143[A]	GLY	8.6
1	2-O	143[B]	GLY	8.6
1	3-O	143[C]	GLY	8.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-O	143[D]	GLY	8.6
1	1-J	50[A]	ALA	8.6
1	1-O	237[A]	MET	8.6
1	1-N	65[A]	LEU	8.6
1	1-O	283[A]	ALA	8.6
1	2-J	50[B]	ALA	8.6
1	2-O	237[B]	MET	8.6
1	2-N	65[B]	LEU	8.6
1	2-O	283[B]	ALA	8.6
1	3-J	50[C]	ALA	8.6
1	3-O	237[C]	MET	8.6
1	3-N	65[C]	LEU	8.6
1	3-O	283[C]	ALA	8.6
1	4-J	50[D]	ALA	8.6
1	4-O	237[D]	MET	8.6
1	4-N	65[D]	LEU	8.6
1	4-O	283[D]	ALA	8.6
1	1-L	180[A]	PRO	8.6
1	2-L	180[B]	PRO	8.6
1	3-L	180[C]	PRO	8.6
1	4-L	180[D]	PRO	8.6
1	1-J	144[A]	ASP	8.6
1	2-J	144[B]	ASP	8.6
1	3-J	144[C]	ASP	8.6
1	4-J	144[D]	ASP	8.6
1	1-J	196[A]	SER	8.6
1	1-L	316[A]	SER	8.6
1	2-J	196[B]	SER	8.6
1	2-L	316[B]	SER	8.6
1	3-J	196[C]	SER	8.6
1	3-L	316[C]	SER	8.6
1	4-J	196[D]	SER	8.6
1	4-L	316[D]	SER	8.6
1	1-K	80[A]	LEU	8.6
1	2-K	80[B]	LEU	8.6
1	3-K	80[C]	LEU	8.6
1	4-K	80[D]	LEU	8.6
1	1-O	168[A]	ARG	8.6
1	1-P	262[A]	HIS	8.6
1	2-O	168[B]	ARG	8.6
1	2-P	262[B]	HIS	8.6
1	3-O	168[C]	ARG	8.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-P	262[C]	HIS	8.6
1	4-O	168[D]	ARG	8.6
1	4-P	262[D]	HIS	8.6
1	1-I	204[A]	GLY	8.6
1	2-I	204[B]	GLY	8.6
1	3-I	204[C]	GLY	8.6
1	4-I	204[D]	GLY	8.6
1	1-I	292[A]	ILE	8.6
1	1-L	97[A]	GLY	8.6
1	2-I	292[B]	ILE	8.6
1	2-L	97[B]	GLY	8.6
1	3-I	292[C]	ILE	8.6
1	3-L	97[C]	GLY	8.6
1	4-I	292[D]	ILE	8.6
1	4-L	97[D]	GLY	8.6
1	1-I	52[A]	PRO	8.6
1	2-I	52[B]	PRO	8.6
1	3-I	52[C]	PRO	8.6
1	4-I	52[D]	PRO	8.6
1	1-N	162[A]	ASN	8.6
1	2-N	162[B]	ASN	8.6
1	3-N	162[C]	ASN	8.6
1	4-N	162[D]	ASN	8.6
1	1-J	158[A]	ASP	8.5
1	2-J	158[B]	ASP	8.5
1	3-J	158[C]	ASP	8.5
1	4-J	158[D]	ASP	8.5
1	1-N	112[A]	LYS	8.5
1	2-N	112[B]	LYS	8.5
1	3-N	112[C]	LYS	8.5
1	4-N	112[D]	LYS	8.5
1	1-I	250[A]	ILE	8.5
1	2-I	250[B]	ILE	8.5
1	3-I	250[C]	ILE	8.5
1	4-I	250[D]	ILE	8.5
1	1-I	150[A]	VAL	8.5
1	2-I	150[B]	VAL	8.5
1	3-I	150[C]	VAL	8.5
1	4-I	150[D]	VAL	8.5
1	1-M	196[A]	SER	8.5
1	2-M	196[B]	SER	8.5
1	3-M	196[C]	SER	8.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-M	196[D]	SER	8.5
1	1-L	101[A]	TRP	8.5
1	1-N	207[A]	PRO	8.5
1	2-L	101[B]	TRP	8.5
1	2-N	207[B]	PRO	8.5
1	3-L	101[C]	TRP	8.5
1	3-N	207[C]	PRO	8.5
1	4-L	101[D]	TRP	8.5
1	4-N	207[D]	PRO	8.5
1	1-M	34[A]	GLY	8.5
1	1-M	71[A]	VAL	8.5
1	1-M	105[A]	GLY	8.5
1	1-P	195[A]	VAL	8.5
1	2-M	34[B]	GLY	8.5
1	2-M	71[B]	VAL	8.5
1	2-M	105[B]	GLY	8.5
1	2-P	195[B]	VAL	8.5
1	3-M	34[C]	GLY	8.5
1	3-M	71[C]	VAL	8.5
1	3-M	105[C]	GLY	8.5
1	3-P	195[C]	VAL	8.5
1	4-M	34[D]	GLY	8.5
1	4-M	71[D]	VAL	8.5
1	4-M	105[D]	GLY	8.5
1	4-P	195[D]	VAL	8.5
1	1-J	155[A]	ARG	8.5
1	2-J	155[B]	ARG	8.5
1	3-J	155[C]	ARG	8.5
1	4-J	155[D]	ARG	8.5
1	1-M	94[A]	SER	8.5
1	1-P	54[A]	PHE	8.5
1	2-M	94[B]	SER	8.5
1	2-P	54[B]	PHE	8.5
1	3-M	94[C]	SER	8.5
1	3-P	54[C]	PHE	8.5
1	4-M	94[D]	SER	8.5
1	4-P	54[D]	PHE	8.5
1	1-O	184[A]	LEU	8.5
1	2-O	184[B]	LEU	8.5
1	3-O	184[C]	LEU	8.5
1	4-O	184[D]	LEU	8.5
1	1-O	260[A]	ARG	8.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-O	260[B]	ARG	8.5
1	3-O	260[C]	ARG	8.5
1	4-O	260[D]	ARG	8.5
1	1-L	174[A]	TRP	8.5
1	1-L	255[A]	ASP	8.5
1	1-N	291[A]	ASP	8.5
1	2-L	174[B]	TRP	8.5
1	2-L	255[B]	ASP	8.5
1	2-N	291[B]	ASP	8.5
1	3-L	174[C]	TRP	8.5
1	3-L	255[C]	ASP	8.5
1	3-N	291[C]	ASP	8.5
1	4-L	174[D]	TRP	8.5
1	4-L	255[D]	ASP	8.5
1	4-N	291[D]	ASP	8.5
1	1-K	267[A]	LYS	8.5
1	2-K	267[B]	LYS	8.5
1	3-K	267[C]	LYS	8.5
1	4-K	267[D]	LYS	8.5
1	1-K	16[A]	PRO	8.5
1	2-K	16[B]	PRO	8.5
1	3-K	16[C]	PRO	8.5
1	4-K	16[D]	PRO	8.5
1	1-I	86[A]	GLY	8.5
1	2-I	86[B]	GLY	8.5
1	3-I	86[C]	GLY	8.5
1	4-I	86[D]	GLY	8.5
1	1-M	288[A]	GLU	8.4
1	2-M	288[B]	GLU	8.4
1	3-M	288[C]	GLU	8.4
1	4-M	288[D]	GLU	8.4
1	1-M	106[A]	SER	8.4
1	2-M	106[B]	SER	8.4
1	3-M	106[C]	SER	8.4
1	4-M	106[D]	SER	8.4
1	1-J	51[A]	PRO	8.4
1	1-M	36[A]	VAL	8.4
1	1-P	70[A]	ARG	8.4
1	2-J	51[B]	PRO	8.4
1	2-M	36[B]	VAL	8.4
1	2-P	70[B]	ARG	8.4
1	3-J	51[C]	PRO	8.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-M	36[C]	VAL	8.4
1	3-P	70[C]	ARG	8.4
1	4-J	51[D]	PRO	8.4
1	4-M	36[D]	VAL	8.4
1	4-P	70[D]	ARG	8.4
1	1-I	193[A]	PHE	8.4
1	1-J	277[A]	PHE	8.4
1	2-I	193[B]	PHE	8.4
1	2-J	277[B]	PHE	8.4
1	3-I	193[C]	PHE	8.4
1	3-J	277[C]	PHE	8.4
1	4-I	193[D]	PHE	8.4
1	4-J	277[D]	PHE	8.4
1	1-K	50[A]	ALA	8.4
1	1-K	302[A]	VAL	8.4
1	1-O	78[A]	ALA	8.4
1	1-P	258[A]	VAL	8.4
1	2-K	50[B]	ALA	8.4
1	2-K	302[B]	VAL	8.4
1	2-O	78[B]	ALA	8.4
1	2-P	258[B]	VAL	8.4
1	3-K	50[C]	ALA	8.4
1	3-K	302[C]	VAL	8.4
1	3-O	78[C]	ALA	8.4
1	3-P	258[C]	VAL	8.4
1	4-K	50[D]	ALA	8.4
1	4-K	302[D]	VAL	8.4
1	4-O	78[D]	ALA	8.4
1	4-P	258[D]	VAL	8.4
1	1-N	30[A]	ILE	8.4
1	1-P	77[A]	ILE	8.4
1	2-N	30[B]	ILE	8.4
1	2-P	77[B]	ILE	8.4
1	3-N	30[C]	ILE	8.4
1	3-P	77[C]	ILE	8.4
1	4-N	30[D]	ILE	8.4
1	4-P	77[D]	ILE	8.4
1	1-M	263[A]	VAL	8.4
1	1-O	149[A]	GLY	8.4
1	2-M	263[B]	VAL	8.4
1	2-O	149[B]	GLY	8.4
1	3-M	263[C]	VAL	8.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-O	149[C]	GLY	8.4
1	4-M	263[D]	VAL	8.4
1	4-O	149[D]	GLY	8.4
1	1-J	241[A]	ILE	8.4
1	2-J	241[B]	ILE	8.4
1	3-J	241[C]	ILE	8.4
1	4-J	241[D]	ILE	8.4
1	1-M	101[A]	TRP	8.4
1	1-M	301[A]	VAL	8.4
1	2-M	101[B]	TRP	8.4
1	2-M	301[B]	VAL	8.4
1	3-M	101[C]	TRP	8.4
1	3-M	301[C]	VAL	8.4
1	4-M	101[D]	TRP	8.4
1	4-M	301[D]	VAL	8.4
1	1-O	312[A]	ASP	8.4
1	2-O	312[B]	ASP	8.4
1	3-O	312[C]	ASP	8.4
1	4-O	312[D]	ASP	8.4
1	1-M	194[A]	PHE	8.4
1	2-M	194[B]	PHE	8.4
1	3-M	194[C]	PHE	8.4
1	4-M	194[D]	PHE	8.4
1	1-N	88[A]	THR	8.4
1	2-N	88[B]	THR	8.4
1	3-N	88[C]	THR	8.4
1	4-N	88[D]	THR	8.4
1	1-I	211[A]	CYS	8.3
1	1-M	16[A]	PRO	8.3
1	2-I	211[B]	CYS	8.3
1	2-M	16[B]	PRO	8.3
1	3-I	211[C]	CYS	8.3
1	3-M	16[C]	PRO	8.3
1	4-I	211[D]	CYS	8.3
1	4-M	16[D]	PRO	8.3
1	1-I	288[A]	GLU	8.3
1	1-J	161[A]	LYS	8.3
1	2-I	288[B]	GLU	8.3
1	2-J	161[B]	LYS	8.3
1	3-I	288[C]	GLU	8.3
1	3-J	161[C]	LYS	8.3
1	4-I	288[D]	GLU	8.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-J	161[D]	LYS	8.3
1	1-I	184[A]	LEU	8.3
1	1-K	48[A]	LEU	8.3
1	1-P	48[A]	LEU	8.3
1	2-I	184[B]	LEU	8.3
1	2-K	48[B]	LEU	8.3
1	2-P	48[B]	LEU	8.3
1	3-I	184[C]	LEU	8.3
1	3-K	48[C]	LEU	8.3
1	3-P	48[C]	LEU	8.3
1	4-I	184[D]	LEU	8.3
1	4-K	48[D]	LEU	8.3
1	4-P	48[D]	LEU	8.3
1	1-O	138[A]	TYR	8.3
1	2-O	138[B]	TYR	8.3
1	3-O	138[C]	TYR	8.3
1	4-O	138[D]	TYR	8.3
1	1-K	205[A]	SER	8.3
1	2-K	205[B]	SER	8.3
1	3-K	205[C]	SER	8.3
1	4-K	205[D]	SER	8.3
1	1-M	114[A]	GLY	8.3
1	2-M	114[B]	GLY	8.3
1	3-M	114[C]	GLY	8.3
1	4-M	114[D]	GLY	8.3
1	1-J	245[A]	GLU	8.3
1	2-J	245[B]	GLU	8.3
1	3-J	245[C]	GLU	8.3
1	4-J	245[D]	GLU	8.3
1	1-J	32[A]	ASN	8.3
1	2-J	32[B]	ASN	8.3
1	3-J	32[C]	ASN	8.3
1	4-J	32[D]	ASN	8.3
1	1-N	265[A]	PRO	8.3
1	1-O	52[A]	PRO	8.3
1	1-P	207[A]	PRO	8.3
1	2-N	265[B]	PRO	8.3
1	2-O	52[B]	PRO	8.3
1	2-P	207[B]	PRO	8.3
1	3-N	265[C]	PRO	8.3
1	3-O	52[C]	PRO	8.3
1	3-P	207[C]	PRO	8.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-N	265[D]	PRO	8.3
1	4-O	52[D]	PRO	8.3
1	4-P	207[D]	PRO	8.3
1	1-I	316[A]	SER	8.3
1	2-I	316[B]	SER	8.3
1	3-I	316[C]	SER	8.3
1	4-I	316[D]	SER	8.3
1	1-M	272[A]	ARG	8.3
1	2-M	272[B]	ARG	8.3
1	3-M	272[C]	ARG	8.3
1	4-M	272[D]	ARG	8.3
1	1-P	308[A]	TRP	8.3
1	2-P	308[B]	TRP	8.3
1	3-P	308[C]	TRP	8.3
1	4-P	308[D]	TRP	8.3
1	1-I	283[A]	ALA	8.3
1	2-I	283[B]	ALA	8.3
1	3-I	283[C]	ALA	8.3
1	4-I	283[D]	ALA	8.3
1	1-P	187[A]	CYS	8.2
1	2-P	187[B]	CYS	8.2
1	3-P	187[C]	CYS	8.2
1	4-P	187[D]	CYS	8.2
1	1-L	51[A]	PRO	8.2
1	2-L	51[B]	PRO	8.2
1	3-L	51[C]	PRO	8.2
1	4-L	51[D]	PRO	8.2
1	1-M	56[A]	PHE	8.2
1	2-M	56[B]	PHE	8.2
1	3-M	56[C]	PHE	8.2
1	4-M	56[D]	PHE	8.2
1	1-O	44[A]	GLY	8.2
1	2-O	44[B]	GLY	8.2
1	3-O	44[C]	GLY	8.2
1	4-O	44[D]	GLY	8.2
1	1-N	66[A]	LEU	8.2
1	2-N	66[B]	LEU	8.2
1	3-N	66[C]	LEU	8.2
1	4-N	66[D]	LEU	8.2
1	1-K	174[A]	TRP	8.2
1	1-P	188[A]	HIS	8.2
1	2-K	174[B]	TRP	8.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-P	188[B]	HIS	8.2
1	3-K	174[C]	TRP	8.2
1	3-P	188[C]	HIS	8.2
1	4-K	174[D]	TRP	8.2
1	4-P	188[D]	HIS	8.2
1	1-K	237[A]	MET	8.2
1	1-O	74[A]	ARG	8.2
1	2-K	237[B]	MET	8.2
1	2-O	74[B]	ARG	8.2
1	3-K	237[C]	MET	8.2
1	3-O	74[C]	ARG	8.2
1	4-K	237[D]	MET	8.2
1	4-O	74[D]	ARG	8.2
1	1-J	311[A]	ILE	8.2
1	1-N	292[A]	ILE	8.2
1	2-J	311[B]	ILE	8.2
1	2-N	292[B]	ILE	8.2
1	3-J	311[C]	ILE	8.2
1	3-N	292[C]	ILE	8.2
1	4-J	311[D]	ILE	8.2
1	4-N	292[D]	ILE	8.2
1	1-B	200[A]	ALA	8.2
1	2-B	200[B]	ALA	8.2
1	3-B	200[C]	ALA	8.2
1	4-B	200[D]	ALA	8.2
1	1-M	55[A]	ARG	8.2
1	2-M	55[B]	ARG	8.2
1	3-M	55[C]	ARG	8.2
1	4-M	55[D]	ARG	8.2
1	1-M	41[A]	THR	8.2
1	1-M	145[A]	TYR	8.2
1	1-O	43[A]	THR	8.2
1	1-P	91[A]	LYS	8.2
1	1-P	244[A]	THR	8.2
1	2-M	41[B]	THR	8.2
1	2-M	145[B]	TYR	8.2
1	2-O	43[B]	THR	8.2
1	2-P	91[B]	LYS	8.2
1	2-P	244[B]	THR	8.2
1	3-M	41[C]	THR	8.2
1	3-M	145[C]	TYR	8.2
1	3-O	43[C]	THR	8.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-P	91[C]	LYS	8.2
1	3-P	244[C]	THR	8.2
1	4-M	41[D]	THR	8.2
1	4-M	145[D]	TYR	8.2
1	4-O	43[D]	THR	8.2
1	4-P	91[D]	LYS	8.2
1	4-P	244[D]	THR	8.2
1	1-L	119[A]	ARG	8.2
1	2-L	119[B]	ARG	8.2
1	3-L	119[C]	ARG	8.2
1	4-L	119[D]	ARG	8.2
1	1-K	313[A]	MET	8.2
1	2-K	313[B]	MET	8.2
1	3-K	313[C]	MET	8.2
1	4-K	313[D]	MET	8.2
1	1-J	146[A]	LYS	8.2
1	2-J	146[B]	LYS	8.2
1	3-J	146[C]	LYS	8.2
1	4-J	146[D]	LYS	8.2
1	1-D	14[A]	SER	8.2
1	2-D	14[B]	SER	8.2
1	3-D	14[C]	SER	8.2
1	4-D	14[D]	SER	8.2
1	1-L	32[A]	ASN	8.2
1	2-L	32[B]	ASN	8.2
1	3-L	32[C]	ASN	8.2
1	4-L	32[D]	ASN	8.2
1	1-M	160[A]	ILE	8.2
1	1-P	194[A]	PHE	8.2
1	2-M	160[B]	ILE	8.2
1	2-P	194[B]	PHE	8.2
1	3-M	160[C]	ILE	8.2
1	3-P	194[C]	PHE	8.2
1	4-M	160[D]	ILE	8.2
1	4-P	194[D]	PHE	8.2
1	1-N	258[A]	VAL	8.2
1	2-N	258[B]	VAL	8.2
1	3-N	258[C]	VAL	8.2
1	4-N	258[D]	VAL	8.2
1	1-P	101[A]	TRP	8.2
1	2-P	101[B]	TRP	8.2
1	3-P	101[C]	TRP	8.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-P	101[D]	TRP	8.2
1	1-J	270[A]	LEU	8.2
1	1-M	48[A]	LEU	8.2
1	2-J	270[B]	LEU	8.2
1	2-M	48[B]	LEU	8.2
1	3-J	270[C]	LEU	8.2
1	3-M	48[C]	LEU	8.2
1	4-J	270[D]	LEU	8.2
1	4-M	48[D]	LEU	8.2
1	1-K	287[A]	GLU	8.1
1	1-O	62[A]	THR	8.1
1	1-P	88[A]	THR	8.1
1	2-K	287[B]	GLU	8.1
1	2-O	62[B]	THR	8.1
1	2-P	88[B]	THR	8.1
1	3-K	287[C]	GLU	8.1
1	3-O	62[C]	THR	8.1
1	3-P	88[C]	THR	8.1
1	4-K	287[D]	GLU	8.1
1	4-O	62[D]	THR	8.1
1	4-P	88[D]	THR	8.1
1	1-M	218[A]	CYS	8.1
1	2-M	218[B]	CYS	8.1
1	3-M	218[C]	CYS	8.1
1	4-M	218[D]	CYS	8.1
1	1-K	86[A]	GLY	8.1
1	2-K	86[B]	GLY	8.1
1	3-K	86[C]	GLY	8.1
1	4-K	86[D]	GLY	8.1
1	1-K	285[A]	SER	8.1
1	1-O	179[A]	LEU	8.1
1	2-K	285[B]	SER	8.1
1	2-O	179[B]	LEU	8.1
1	3-K	285[C]	SER	8.1
1	3-O	179[C]	LEU	8.1
1	4-K	285[D]	SER	8.1
1	4-O	179[D]	LEU	8.1
1	1-L	16[A]	PRO	8.1
1	2-L	16[B]	PRO	8.1
1	3-L	16[C]	PRO	8.1
1	4-L	16[D]	PRO	8.1
1	1-O	218[A]	CYS	8.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-O	218[B]	CYS	8.1
1	3-O	218[C]	CYS	8.1
1	4-O	218[D]	CYS	8.1
1	1-K	245[A]	GLU	8.1
1	1-K	255[A]	ASP	8.1
1	1-L	214[A]	TYR	8.1
1	2-K	245[B]	GLU	8.1
1	2-K	255[B]	ASP	8.1
1	2-L	214[B]	TYR	8.1
1	3-K	245[C]	GLU	8.1
1	3-K	255[C]	ASP	8.1
1	3-L	214[C]	TYR	8.1
1	4-K	245[D]	GLU	8.1
1	4-K	255[D]	ASP	8.1
1	4-L	214[D]	TYR	8.1
1	1-M	217[A]	SER	8.1
1	2-M	217[B]	SER	8.1
1	3-M	217[C]	SER	8.1
1	4-M	217[D]	SER	8.1
1	1-K	113[A]	VAL	8.1
1	2-K	113[B]	VAL	8.1
1	3-K	113[C]	VAL	8.1
1	4-K	113[D]	VAL	8.1
1	1-N	158[A]	ASP	8.1
1	2-N	158[B]	ASP	8.1
1	3-N	158[C]	ASP	8.1
1	4-N	158[D]	ASP	8.1
1	1-K	292[A]	ILE	8.1
1	1-N	259[A]	TYR	8.1
1	2-K	292[B]	ILE	8.1
1	2-N	259[B]	TYR	8.1
1	3-K	292[C]	ILE	8.1
1	3-N	259[C]	TYR	8.1
1	4-K	292[D]	ILE	8.1
1	4-N	259[D]	TYR	8.1
1	1-J	98[A]	VAL	8.1
1	1-M	150[A]	VAL	8.1
1	2-J	98[B]	VAL	8.1
1	2-M	150[B]	VAL	8.1
1	3-J	98[C]	VAL	8.1
1	3-M	150[C]	VAL	8.1
1	4-J	98[D]	VAL	8.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-M	150[D]	VAL	8.1
1	1-J	176[A]	PRO	8.1
1	2-J	176[B]	PRO	8.1
1	3-J	176[C]	PRO	8.1
1	4-J	176[D]	PRO	8.1
1	1-I	213[A]	MET	8.1
1	2-I	213[B]	MET	8.1
1	3-I	213[C]	MET	8.1
1	4-I	213[D]	MET	8.1
1	1-P	118[A]	ARG	8.1
1	2-P	118[B]	ARG	8.1
1	3-P	118[C]	ARG	8.1
1	4-P	118[D]	ARG	8.1
1	1-L	63[A]	LEU	8.1
1	2-L	63[B]	LEU	8.1
1	3-L	63[C]	LEU	8.1
1	4-L	63[D]	LEU	8.1
1	1-P	180[A]	PRO	8.1
1	2-P	180[B]	PRO	8.1
1	3-P	180[C]	PRO	8.1
1	4-P	180[D]	PRO	8.1
1	1-J	294[A]	GLY	8.1
1	2-J	294[B]	GLY	8.1
1	3-J	294[C]	GLY	8.1
1	4-J	294[D]	GLY	8.1
1	1-J	206[A]	LYS	8.1
1	1-I	247[A]	HIS	8.1
1	1-J	56[A]	PHE	8.1
1	2-J	206[B]	LYS	8.1
1	2-I	247[B]	HIS	8.1
1	2-J	56[B]	PHE	8.1
1	3-I	247[C]	HIS	8.1
1	3-J	56[C]	PHE	8.1
1	3-J	206[C]	LYS	8.1
1	4-I	247[D]	HIS	8.1
1	4-J	56[D]	PHE	8.1
1	4-J	206[D]	LYS	8.1
1	1-J	73[A]	LEU	8.1
1	1-J	282[A]	TRP	8.1
1	2-J	73[B]	LEU	8.1
1	2-J	282[B]	TRP	8.1
1	3-J	73[C]	LEU	8.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-J	282[C]	TRP	8.1
1	4-J	73[D]	LEU	8.1
1	4-J	282[D]	TRP	8.1
1	1-J	108[A]	GLU	8.1
1	1-O	85[A]	SER	8.1
1	2-J	108[B]	GLU	8.1
1	2-O	85[B]	SER	8.1
1	3-J	108[C]	GLU	8.1
1	3-O	85[C]	SER	8.1
1	4-J	108[D]	GLU	8.1
1	4-O	85[D]	SER	8.1
1	1-K	54[A]	PHE	8.0
1	1-M	83[A]	PHE	8.0
1	2-K	54[B]	PHE	8.0
1	2-M	83[B]	PHE	8.0
1	3-K	54[C]	PHE	8.0
1	3-M	83[C]	PHE	8.0
1	4-K	54[D]	PHE	8.0
1	4-M	83[D]	PHE	8.0
1	1-J	184[A]	LEU	8.0
1	1-J	244[A]	THR	8.0
1	2-J	184[B]	LEU	8.0
1	1-N	101[A]	TRP	8.0
1	2-J	244[B]	THR	8.0
1	3-J	184[C]	LEU	8.0
1	3-J	244[C]	THR	8.0
1	4-J	184[D]	LEU	8.0
1	2-N	101[B]	TRP	8.0
1	3-N	101[C]	TRP	8.0
1	4-J	244[D]	THR	8.0
1	4-N	101[D]	TRP	8.0
1	1-L	53[A]	SER	8.0
1	2-L	53[B]	SER	8.0
1	3-L	53[C]	SER	8.0
1	4-L	53[D]	SER	8.0
1	1-J	96[A]	GLN	8.0
1	2-J	96[B]	GLN	8.0
1	3-J	96[C]	GLN	8.0
1	4-J	96[D]	GLN	8.0
1	1-N	99[A]	GLY	8.0
1	2-N	99[B]	GLY	8.0
1	3-N	99[C]	GLY	8.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-N	99[D]	GLY	8.0
1	1-N	268[A]	THR	8.0
1	1-O	259[A]	TYR	8.0
1	2-N	268[B]	THR	8.0
1	2-O	259[B]	TYR	8.0
1	3-N	268[C]	THR	8.0
1	3-O	259[C]	TYR	8.0
1	4-N	268[D]	THR	8.0
1	4-O	259[D]	TYR	8.0
1	1-O	57[A]	SER	8.0
1	2-O	57[B]	SER	8.0
1	3-O	57[C]	SER	8.0
1	4-O	57[D]	SER	8.0
1	1-O	28[A]	ARG	8.0
1	2-O	28[B]	ARG	8.0
1	3-O	28[C]	ARG	8.0
1	4-O	28[D]	ARG	8.0
1	1-M	103[A]	GLY	8.0
1	2-M	103[B]	GLY	8.0
1	3-M	103[C]	GLY	8.0
1	4-M	103[D]	GLY	8.0
1	1-K	196[A]	SER	8.0
1	1-P	94[A]	SER	8.0
1	2-K	196[B]	SER	8.0
1	2-P	94[B]	SER	8.0
1	3-K	196[C]	SER	8.0
1	3-P	94[C]	SER	8.0
1	4-K	196[D]	SER	8.0
1	4-P	94[D]	SER	8.0
1	1-L	292[A]	ILE	8.0
1	1-P	36[A]	VAL	8.0
1	2-L	292[B]	ILE	8.0
1	2-P	36[B]	VAL	8.0
1	3-L	292[C]	ILE	8.0
1	3-P	36[C]	VAL	8.0
1	4-L	292[D]	ILE	8.0
1	4-P	36[D]	VAL	8.0
1	1-J	61[A]	ASN	8.0
1	2-J	61[B]	ASN	8.0
1	3-J	61[C]	ASN	8.0
1	4-J	61[D]	ASN	8.0
1	1-J	269[A]	GLN	8.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-K	139[A]	THR	8.0
1	1-M	111[A]	GLU	8.0
1	2-J	269[B]	GLN	8.0
1	2-K	139[B]	THR	8.0
1	2-M	111[B]	GLU	8.0
1	3-J	269[C]	GLN	8.0
1	3-K	139[C]	THR	8.0
1	3-M	111[C]	GLU	8.0
1	4-J	269[D]	GLN	8.0
1	4-K	139[D]	THR	8.0
1	4-M	111[D]	GLU	8.0
1	1-I	98[A]	VAL	8.0
1	2-I	98[B]	VAL	8.0
1	3-I	98[C]	VAL	8.0
1	4-I	98[D]	VAL	8.0
1	1-L	282[A]	TRP	8.0
1	2-L	282[B]	TRP	8.0
1	3-L	282[C]	TRP	8.0
1	4-L	282[D]	TRP	8.0
1	1-L	128[A]	GLY	8.0
1	2-L	128[B]	GLY	8.0
1	3-L	128[C]	GLY	8.0
1	4-L	128[D]	GLY	8.0
1	1-I	174[A]	TRP	8.0
1	2-I	174[B]	TRP	8.0
1	3-I	174[C]	TRP	8.0
1	4-I	174[D]	TRP	8.0
1	1-N	59[A]	ALA	8.0
1	2-N	59[B]	ALA	8.0
1	3-N	59[C]	ALA	8.0
1	4-N	59[D]	ALA	8.0
1	1-K	235[A]	THR	8.0
1	1-O	83[A]	PHE	8.0
1	2-K	235[B]	THR	8.0
1	2-O	83[B]	PHE	8.0
1	3-K	235[C]	THR	8.0
1	3-O	83[C]	PHE	8.0
1	4-K	235[D]	THR	8.0
1	4-O	83[D]	PHE	8.0
1	1-I	164[A]	PRO	7.9
1	1-M	164[A]	PRO	7.9
1	2-I	164[B]	PRO	7.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-M	164[B]	PRO	7.9
1	3-I	164[C]	PRO	7.9
1	3-M	164[C]	PRO	7.9
1	4-I	164[D]	PRO	7.9
1	4-M	164[D]	PRO	7.9
1	1-M	24[A]	LEU	7.9
1	1-P	251[A]	LEU	7.9
1	2-M	24[B]	LEU	7.9
1	2-P	251[B]	LEU	7.9
1	3-M	24[C]	LEU	7.9
1	3-P	251[C]	LEU	7.9
1	4-M	24[D]	LEU	7.9
1	4-P	251[D]	LEU	7.9
1	1-K	37[A]	ARG	7.9
1	2-K	37[B]	ARG	7.9
1	3-K	37[C]	ARG	7.9
1	4-K	37[D]	ARG	7.9
1	1-J	53[A]	SER	7.9
1	2-J	53[B]	SER	7.9
1	3-J	53[C]	SER	7.9
1	4-J	53[D]	SER	7.9
1	1-N	281[A]	LYS	7.9
1	2-N	281[B]	LYS	7.9
1	3-N	281[C]	LYS	7.9
1	4-N	281[D]	LYS	7.9
1	1-N	60[A]	ASP	7.9
1	1-N	89[A]	ASP	7.9
1	2-N	60[B]	ASP	7.9
1	2-N	89[B]	ASP	7.9
1	3-N	60[C]	ASP	7.9
1	3-N	89[C]	ASP	7.9
1	4-N	60[D]	ASP	7.9
1	4-N	89[D]	ASP	7.9
1	1-K	290[A]	GLY	7.9
1	2-K	290[B]	GLY	7.9
1	3-K	290[C]	GLY	7.9
1	4-K	290[D]	GLY	7.9
1	1-P	74[A]	ARG	7.9
1	2-P	74[B]	ARG	7.9
1	3-P	74[C]	ARG	7.9
1	4-P	74[D]	ARG	7.9
1	1-P	218[A]	CYS	7.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-P	218[B]	CYS	7.9
1	3-P	218[C]	CYS	7.9
1	4-P	218[D]	CYS	7.9
1	1-N	117[A]	HIS	7.9
1	2-N	117[B]	HIS	7.9
1	3-N	117[C]	HIS	7.9
1	4-N	117[D]	HIS	7.9
1	1-I	23[A]	TYR	7.9
1	1-K	263[A]	VAL	7.9
1	2-I	23[B]	TYR	7.9
1	2-K	263[B]	VAL	7.9
1	3-I	23[C]	TYR	7.9
1	3-K	263[C]	VAL	7.9
1	4-I	23[D]	TYR	7.9
1	4-K	263[D]	VAL	7.9
1	1-P	186[A]	PRO	7.9
1	2-P	186[B]	PRO	7.9
1	3-P	186[C]	PRO	7.9
1	4-P	186[D]	PRO	7.9
1	1-J	191[A]	CYS	7.9
1	1-K	44[A]	GLY	7.9
1	1-M	87[A]	CYS	7.9
1	2-J	191[B]	CYS	7.9
1	2-K	44[B]	GLY	7.9
1	2-M	87[B]	CYS	7.9
1	3-J	191[C]	CYS	7.9
1	3-K	44[C]	GLY	7.9
1	3-M	87[C]	CYS	7.9
1	4-J	191[D]	CYS	7.9
1	4-K	44[D]	GLY	7.9
1	4-M	87[D]	CYS	7.9
1	1-P	146[A]	LYS	7.9
1	2-P	146[B]	LYS	7.9
1	3-P	146[C]	LYS	7.9
1	4-P	146[D]	LYS	7.9
1	1-N	18[A]	HIS	7.9
1	2-N	18[B]	HIS	7.9
1	3-N	18[C]	HIS	7.9
1	4-N	18[D]	HIS	7.9
1	1-I	123[A]	LEU	7.9
1	1-I	181[A]	LEU	7.9
1	2-I	123[B]	LEU	7.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-I	181[B]	LEU	7.9
1	3-I	123[C]	LEU	7.9
1	3-I	181[C]	LEU	7.9
1	4-I	123[D]	LEU	7.9
1	4-I	181[D]	LEU	7.9
1	1-P	102[A]	ASP	7.9
1	2-P	102[B]	ASP	7.9
1	3-P	102[C]	ASP	7.9
1	4-P	102[D]	ASP	7.9
1	1-K	77[A]	ILE	7.9
1	1-L	228[A]	ILE	7.9
1	2-K	77[B]	ILE	7.9
1	2-L	228[B]	ILE	7.9
1	3-K	77[C]	ILE	7.9
1	3-L	228[C]	ILE	7.9
1	4-K	77[D]	ILE	7.9
1	4-L	228[D]	ILE	7.9
1	1-I	116[A]	GLY	7.9
1	2-I	116[B]	GLY	7.9
1	3-I	116[C]	GLY	7.9
1	4-I	116[D]	GLY	7.9
1	1-L	257[A]	HIS	7.9
1	2-L	257[B]	HIS	7.9
1	3-L	257[C]	HIS	7.9
1	4-L	257[D]	HIS	7.9
1	1-I	58[A]	LEU	7.9
1	1-J	93[A]	LEU	7.9
1	1-P	275[A]	ARG	7.9
1	2-I	58[B]	LEU	7.9
1	2-J	93[B]	LEU	7.9
1	2-P	275[B]	ARG	7.9
1	3-I	58[C]	LEU	7.9
1	3-J	93[C]	LEU	7.9
1	3-P	275[C]	ARG	7.9
1	4-I	58[D]	LEU	7.9
1	4-J	93[D]	LEU	7.9
1	4-P	275[D]	ARG	7.9
1	1-O	281[A]	LYS	7.9
1	2-O	281[B]	LYS	7.9
1	3-O	281[C]	LYS	7.9
1	4-O	281[D]	LYS	7.9
1	1-J	250[A]	ILE	7.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-J	250[B]	ILE	7.9
1	3-J	250[C]	ILE	7.9
1	4-J	250[D]	ILE	7.9
1	1-J	207[A]	PRO	7.9
1	2-J	207[B]	PRO	7.9
1	3-J	207[C]	PRO	7.9
1	4-J	207[D]	PRO	7.9
1	1-L	258[A]	VAL	7.8
1	2-L	258[B]	VAL	7.8
1	3-L	258[C]	VAL	7.8
1	4-L	258[D]	VAL	7.8
1	1-K	232[A]	ALA	7.8
1	2-K	232[B]	ALA	7.8
1	3-K	232[C]	ALA	7.8
1	4-K	232[D]	ALA	7.8
1	1-N	118[A]	ARG	7.8
1	2-N	118[B]	ARG	7.8
1	3-N	118[C]	ARG	7.8
1	4-N	118[D]	ARG	7.8
1	1-J	193[A]	PHE	7.8
1	2-J	193[B]	PHE	7.8
1	3-J	193[C]	PHE	7.8
1	4-J	193[D]	PHE	7.8
1	1-O	174[A]	TRP	7.8
1	2-O	174[B]	TRP	7.8
1	3-O	174[C]	TRP	7.8
1	4-O	174[D]	TRP	7.8
1	1-I	317[A]	ALA	7.8
1	2-I	317[B]	ALA	7.8
1	3-I	317[C]	ALA	7.8
1	4-I	317[D]	ALA	7.8
1	1-N	305[A]	TYR	7.8
1	1-P	316[A]	SER	7.8
1	2-N	305[B]	TYR	7.8
1	2-P	316[B]	SER	7.8
1	3-N	305[C]	TYR	7.8
1	3-P	316[C]	SER	7.8
1	4-N	305[D]	TYR	7.8
1	4-P	316[D]	SER	7.8
1	1-J	288[A]	GLU	7.8
1	1-M	20[A]	GLU	7.8
1	1-M	92[A]	MET	7.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-N	28[A]	ARG	7.8
1	2-J	288[B]	GLU	7.8
1	2-M	20[B]	GLU	7.8
1	2-M	92[B]	MET	7.8
1	2-N	28[B]	ARG	7.8
1	3-J	288[C]	GLU	7.8
1	3-M	20[C]	GLU	7.8
1	3-M	92[C]	MET	7.8
1	3-N	28[C]	ARG	7.8
1	4-J	288[D]	GLU	7.8
1	4-M	20[D]	GLU	7.8
1	4-M	92[D]	MET	7.8
1	4-N	28[D]	ARG	7.8
1	1-I	110[A]	LEU	7.8
1	1-M	153[A]	LEU	7.8
1	2-I	110[B]	LEU	7.8
1	2-M	153[B]	LEU	7.8
1	3-I	110[C]	LEU	7.8
1	3-M	153[C]	LEU	7.8
1	4-I	110[D]	LEU	7.8
1	4-M	153[D]	LEU	7.8
1	1-L	206[A]	LYS	7.8
1	1-O	287[A]	GLU	7.8
1	2-L	206[B]	LYS	7.8
1	2-O	287[B]	GLU	7.8
1	3-L	206[C]	LYS	7.8
1	3-O	287[C]	GLU	7.8
1	4-L	206[D]	LYS	7.8
1	4-O	287[D]	GLU	7.8
1	1-M	293[A]	ASP	7.8
1	1-O	155[A]	ARG	7.8
1	2-M	293[B]	ASP	7.8
1	2-O	155[B]	ARG	7.8
1	3-M	293[C]	ASP	7.8
1	3-O	155[C]	ARG	7.8
1	4-M	293[D]	ASP	7.8
1	4-O	155[D]	ARG	7.8
1	1-N	190[A]	PHE	7.8
1	1-O	56[A]	PHE	7.8
1	2-N	190[B]	PHE	7.8
1	2-O	56[B]	PHE	7.8
1	3-N	190[C]	PHE	7.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-O	56[C]	PHE	7.8
1	4-N	190[D]	PHE	7.8
1	4-O	56[D]	PHE	7.8
1	1-J	188[A]	HIS	7.8
1	2-J	188[B]	HIS	7.8
1	3-J	188[C]	HIS	7.8
1	4-J	188[D]	HIS	7.8
1	1-M	93[A]	LEU	7.8
1	1-O	61[A]	ASN	7.8
1	2-M	93[B]	LEU	7.8
1	2-O	61[B]	ASN	7.8
1	3-M	93[C]	LEU	7.8
1	3-O	61[C]	ASN	7.8
1	4-M	93[D]	LEU	7.8
1	4-O	61[D]	ASN	7.8
1	1-I	148[A]	LYS	7.8
1	2-I	148[B]	LYS	7.8
1	3-I	148[C]	LYS	7.8
1	4-I	148[D]	LYS	7.8
1	1-I	78[A]	ALA	7.8
1	2-I	78[B]	ALA	7.8
1	3-I	78[C]	ALA	7.8
1	4-I	78[D]	ALA	7.8
1	1-O	301[A]	VAL	7.8
1	2-O	301[B]	VAL	7.8
1	3-O	301[C]	VAL	7.8
1	4-O	301[D]	VAL	7.8
1	1-L	262[A]	HIS	7.8
1	2-L	262[B]	HIS	7.8
1	3-L	262[C]	HIS	7.8
1	4-L	262[D]	HIS	7.8
1	1-J	242[A]	THR	7.8
1	1-I	171[A]	LEU	7.8
1	1-K	73[A]	LEU	7.8
1	1-N	29[A]	ARG	7.8
1	2-J	242[B]	THR	7.8
1	2-I	171[B]	LEU	7.8
1	2-K	73[B]	LEU	7.8
1	2-N	29[B]	ARG	7.8
1	3-J	242[C]	THR	7.8
1	3-I	171[C]	LEU	7.8
1	3-K	73[C]	LEU	7.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-N	29[C]	ARG	7.8
1	4-J	242[D]	THR	7.8
1	4-I	171[D]	LEU	7.8
1	4-K	73[D]	LEU	7.8
1	4-N	29[D]	ARG	7.8
1	1-J	309[A]	GLY	7.8
1	2-J	309[B]	GLY	7.8
1	3-J	309[C]	GLY	7.8
1	4-J	309[D]	GLY	7.8
1	1-M	313[A]	MET	7.7
1	1-N	157[A]	ILE	7.7
1	2-M	313[B]	MET	7.7
1	2-N	157[B]	ILE	7.7
1	3-M	313[C]	MET	7.7
1	3-N	157[C]	ILE	7.7
1	4-M	313[D]	MET	7.7
1	4-N	157[D]	ILE	7.7
1	1-N	142[A]	ASP	7.7
1	2-N	142[B]	ASP	7.7
1	3-N	142[C]	ASP	7.7
1	4-N	142[D]	ASP	7.7
1	1-J	316[A]	SER	7.7
1	1-K	316[A]	SER	7.7
1	1-M	210[A]	SER	7.7
1	1-N	130[A]	GLN	7.7
1	2-J	316[B]	SER	7.7
1	2-K	316[B]	SER	7.7
1	2-M	210[B]	SER	7.7
1	2-N	130[B]	GLN	7.7
1	3-J	316[C]	SER	7.7
1	3-K	316[C]	SER	7.7
1	3-M	210[C]	SER	7.7
1	3-N	130[C]	GLN	7.7
1	4-J	316[D]	SER	7.7
1	4-K	316[D]	SER	7.7
1	4-M	210[D]	SER	7.7
1	4-N	130[D]	GLN	7.7
1	1-J	222[A]	LEU	7.7
1	2-J	222[B]	LEU	7.7
1	3-J	222[C]	LEU	7.7
1	4-J	222[D]	LEU	7.7
1	1-K	190[A]	PHE	7.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-O	176[A]	PRO	7.7
1	2-K	190[B]	PHE	7.7
1	2-O	176[B]	PRO	7.7
1	3-K	190[C]	PHE	7.7
1	3-O	176[C]	PRO	7.7
1	4-K	190[D]	PHE	7.7
1	4-O	176[D]	PRO	7.7
1	1-I	103[A]	GLY	7.7
1	2-I	103[B]	GLY	7.7
1	3-I	103[C]	GLY	7.7
1	4-I	103[D]	GLY	7.7
1	1-J	209[A]	LEU	7.7
1	2-J	209[B]	LEU	7.7
1	3-J	209[C]	LEU	7.7
1	4-J	209[D]	LEU	7.7
1	1-O	92[A]	MET	7.7
1	2-O	92[B]	MET	7.7
1	3-O	92[C]	MET	7.7
1	4-O	92[D]	MET	7.7
1	1-L	169[A]	ILE	7.7
1	2-L	169[B]	ILE	7.7
1	3-L	169[C]	ILE	7.7
1	4-L	169[D]	ILE	7.7
1	1-I	62[A]	THR	7.7
1	2-I	62[B]	THR	7.7
1	3-I	62[C]	THR	7.7
1	4-I	62[D]	THR	7.7
1	1-I	55[A]	ARG	7.7
1	2-I	55[B]	ARG	7.7
1	3-I	55[C]	ARG	7.7
1	4-I	55[D]	ARG	7.7
1	1-K	173[A]	ALA	7.7
1	2-K	173[B]	ALA	7.7
1	3-K	173[C]	ALA	7.7
1	4-K	173[D]	ALA	7.7
1	1-I	39[A]	ASP	7.7
1	1-P	32[A]	ASN	7.7
1	2-I	39[B]	ASP	7.7
1	2-P	32[B]	ASN	7.7
1	3-I	39[C]	ASP	7.7
1	3-P	32[C]	ASN	7.7
1	4-I	39[D]	ASP	7.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-P	32[D]	ASN	7.7
1	1-O	89[A]	ASP	7.7
1	2-O	89[B]	ASP	7.7
1	3-O	89[C]	ASP	7.7
1	4-O	89[D]	ASP	7.7
1	1-N	81[A]	LEU	7.7
1	1-N	287[A]	GLU	7.7
1	2-N	81[B]	LEU	7.7
1	2-N	287[B]	GLU	7.7
1	3-N	81[C]	LEU	7.7
1	3-N	287[C]	GLU	7.7
1	4-N	81[D]	LEU	7.7
1	4-N	287[D]	GLU	7.7
1	1-J	307[A]	PRO	7.7
1	1-M	274[A]	PRO	7.7
1	2-J	307[B]	PRO	7.7
1	2-M	274[B]	PRO	7.7
1	3-J	307[C]	PRO	7.7
1	3-M	274[C]	PRO	7.7
1	4-J	307[D]	PRO	7.7
1	4-M	274[D]	PRO	7.7
1	1-N	290[A]	GLY	7.7
1	2-N	290[B]	GLY	7.7
1	3-N	290[C]	GLY	7.7
1	4-N	290[D]	GLY	7.7
1	1-I	308[A]	TRP	7.7
1	2-I	308[B]	TRP	7.7
1	3-I	308[C]	TRP	7.7
1	4-I	308[D]	TRP	7.7
1	1-K	163[A]	ASN	7.7
1	2-K	163[B]	ASN	7.7
1	3-K	163[C]	ASN	7.7
1	4-K	163[D]	ASN	7.7
1	1-I	92[A]	MET	7.7
1	2-I	92[B]	MET	7.7
1	3-I	92[C]	MET	7.7
1	4-I	92[D]	MET	7.7
1	1-K	47[A]	ALA	7.7
1	2-K	47[B]	ALA	7.7
1	3-K	47[C]	ALA	7.7
1	4-K	47[D]	ALA	7.7
1	1-L	216[A]	ARG	7.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-L	216[B]	ARG	7.7
1	3-L	216[C]	ARG	7.7
1	4-L	216[D]	ARG	7.7
1	1-I	100[A]	ILE	7.7
1	1-I	157[A]	ILE	7.7
1	2-I	100[B]	ILE	7.7
1	2-I	157[B]	ILE	7.7
1	3-I	100[C]	ILE	7.7
1	3-I	157[C]	ILE	7.7
1	4-I	100[D]	ILE	7.7
1	4-I	157[D]	ILE	7.7
1	1-I	240[A]	LEU	7.6
1	1-L	197[A]	LEU	7.6
1	1-P	73[A]	LEU	7.6
1	2-I	240[B]	LEU	7.6
1	2-L	197[B]	LEU	7.6
1	2-P	73[B]	LEU	7.6
1	3-I	240[C]	LEU	7.6
1	3-L	197[C]	LEU	7.6
1	3-P	73[C]	LEU	7.6
1	4-I	240[D]	LEU	7.6
1	4-L	197[D]	LEU	7.6
1	4-P	73[D]	LEU	7.6
1	1-J	290[A]	GLY	7.6
1	1-L	42[A]	GLY	7.6
1	2-J	290[B]	GLY	7.6
1	2-L	42[B]	GLY	7.6
1	3-J	290[C]	GLY	7.6
1	3-L	42[C]	GLY	7.6
1	4-J	290[D]	GLY	7.6
1	4-L	42[D]	GLY	7.6
1	1-J	252[A]	GLN	7.6
1	2-J	252[B]	GLN	7.6
1	3-J	252[C]	GLN	7.6
1	4-J	252[D]	GLN	7.6
1	1-J	228[A]	ILE	7.6
1	1-L	129[A]	PHE	7.6
1	2-J	228[B]	ILE	7.6
1	2-L	129[B]	PHE	7.6
1	3-J	228[C]	ILE	7.6
1	3-L	129[C]	PHE	7.6
1	4-J	228[D]	ILE	7.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-L	129[D]	PHE	7.6
1	1-L	310[A]	LYS	7.6
1	1-N	35[A]	GLU	7.6
1	1-O	120[A]	GLU	7.6
1	2-L	310[B]	LYS	7.6
1	2-N	35[B]	GLU	7.6
1	2-O	120[B]	GLU	7.6
1	3-L	310[C]	LYS	7.6
1	3-N	35[C]	GLU	7.6
1	3-O	120[C]	GLU	7.6
1	4-L	310[D]	LYS	7.6
1	4-N	35[D]	GLU	7.6
1	4-O	120[D]	GLU	7.6
1	1-J	243[A]	ASP	7.6
1	1-N	110[A]	LEU	7.6
1	1-N	181[A]	LEU	7.6
1	2-J	243[B]	ASP	7.6
1	2-N	110[B]	LEU	7.6
1	2-N	181[B]	LEU	7.6
1	3-J	243[C]	ASP	7.6
1	3-N	110[C]	LEU	7.6
1	3-N	181[C]	LEU	7.6
1	4-J	243[D]	ASP	7.6
1	4-N	110[D]	LEU	7.6
1	4-N	181[D]	LEU	7.6
1	1-M	91[A]	LYS	7.6
1	1-M	177[A]	LYS	7.6
1	2-M	91[B]	LYS	7.6
1	2-M	177[B]	LYS	7.6
1	3-M	91[C]	LYS	7.6
1	3-M	177[C]	LYS	7.6
1	4-M	91[D]	LYS	7.6
1	4-M	177[D]	LYS	7.6
1	1-M	38[A]	PRO	7.6
1	2-M	38[B]	PRO	7.6
1	3-M	38[C]	PRO	7.6
1	4-M	38[D]	PRO	7.6
1	1-N	21[A]	TYR	7.6
1	1-P	99[A]	GLY	7.6
1	2-N	21[B]	TYR	7.6
1	2-P	99[B]	GLY	7.6
1	3-N	21[C]	TYR	7.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-P	99[C]	GLY	7.6
1	4-N	21[D]	TYR	7.6
1	4-P	99[D]	GLY	7.6
1	1-I	53[A]	SER	7.6
1	1-P	90[A]	ALA	7.6
1	2-I	53[B]	SER	7.6
1	2-P	90[B]	ALA	7.6
1	3-I	53[C]	SER	7.6
1	3-P	90[C]	ALA	7.6
1	4-I	53[D]	SER	7.6
1	4-P	90[D]	ALA	7.6
1	1-L	66[A]	LEU	7.6
1	2-L	66[B]	LEU	7.6
1	3-L	66[C]	LEU	7.6
1	4-L	66[D]	LEU	7.6
1	1-P	176[A]	PRO	7.6
1	2-P	176[B]	PRO	7.6
1	3-P	176[C]	PRO	7.6
1	4-P	176[D]	PRO	7.6
1	1-N	210[A]	SER	7.6
1	2-N	210[B]	SER	7.6
1	3-N	210[C]	SER	7.6
1	4-N	210[D]	SER	7.6
1	1-I	306[A]	LYS	7.6
1	1-N	163[A]	ASN	7.6
1	2-I	306[B]	LYS	7.6
1	2-N	163[B]	ASN	7.6
1	3-I	306[C]	LYS	7.6
1	3-N	163[C]	ASN	7.6
1	4-I	306[D]	LYS	7.6
1	4-N	163[D]	ASN	7.6
1	1-I	65[A]	LEU	7.6
1	2-I	65[B]	LEU	7.6
1	3-I	65[C]	LEU	7.6
1	4-I	65[D]	LEU	7.6
1	1-M	97[A]	GLY	7.6
1	2-M	97[B]	GLY	7.6
1	3-M	97[C]	GLY	7.6
1	4-M	97[D]	GLY	7.6
1	1-N	193[A]	PHE	7.6
1	2-N	193[B]	PHE	7.6
1	3-N	193[C]	PHE	7.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-N	193[D]	PHE	7.6
1	1-K	31[A]	ILE	7.6
1	2-K	31[B]	ILE	7.6
1	3-K	31[C]	ILE	7.6
1	4-K	31[D]	ILE	7.6
1	1-K	60[A]	ASP	7.6
1	1-M	234[A]	LEU	7.6
1	2-K	60[B]	ASP	7.6
1	2-M	234[B]	LEU	7.6
1	3-K	60[C]	ASP	7.6
1	3-M	234[C]	LEU	7.6
1	4-K	60[D]	ASP	7.6
1	4-M	234[D]	LEU	7.6
1	1-N	67[A]	THR	7.6
1	2-N	67[B]	THR	7.6
1	3-N	67[C]	THR	7.6
1	4-N	67[D]	THR	7.6
1	1-M	167[A]	ARG	7.6
1	1-P	28[A]	ARG	7.6
1	2-M	167[B]	ARG	7.6
1	2-P	28[B]	ARG	7.6
1	3-M	167[C]	ARG	7.6
1	3-P	28[C]	ARG	7.6
1	4-M	167[D]	ARG	7.6
1	4-P	28[D]	ARG	7.6
1	1-O	236[A]	HIS	7.6
1	2-O	236[B]	HIS	7.6
1	3-O	236[C]	HIS	7.6
1	4-O	236[D]	HIS	7.6
1	1-J	84[A]	VAL	7.6
1	2-J	84[B]	VAL	7.6
1	3-J	84[C]	VAL	7.6
1	4-J	84[D]	VAL	7.6
1	1-L	38[A]	PRO	7.6
1	2-L	38[B]	PRO	7.6
1	3-L	38[C]	PRO	7.6
1	4-L	38[D]	PRO	7.6
1	1-K	92[A]	MET	7.5
1	2-K	92[B]	MET	7.5
1	3-K	92[C]	MET	7.5
1	4-K	92[D]	MET	7.5
1	1-L	140[A]	ASP	7.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-M	102[A]	ASP	7.5
1	1-N	249[A]	PHE	7.5
1	2-L	140[B]	ASP	7.5
1	2-M	102[B]	ASP	7.5
1	2-N	249[B]	PHE	7.5
1	3-L	140[C]	ASP	7.5
1	3-M	102[C]	ASP	7.5
1	3-N	249[C]	PHE	7.5
1	4-L	140[D]	ASP	7.5
1	4-M	102[D]	ASP	7.5
1	4-N	249[D]	PHE	7.5
1	1-P	35[A]	GLU	7.5
1	2-P	35[B]	GLU	7.5
1	3-P	35[C]	GLU	7.5
1	4-P	35[D]	GLU	7.5
1	1-I	314[A]	LYS	7.5
1	2-I	314[B]	LYS	7.5
1	3-I	314[C]	LYS	7.5
1	4-I	314[D]	LYS	7.5
1	1-N	237[A]	MET	7.5
1	1-K	18[A]	HIS	7.5
1	1-L	18[A]	HIS	7.5
1	1-O	21[A]	TYR	7.5
1	2-N	237[B]	MET	7.5
1	2-K	18[B]	HIS	7.5
1	2-L	18[B]	HIS	7.5
1	2-O	21[B]	TYR	7.5
1	3-N	237[C]	MET	7.5
1	3-K	18[C]	HIS	7.5
1	3-L	18[C]	HIS	7.5
1	3-O	21[C]	TYR	7.5
1	4-N	237[D]	MET	7.5
1	4-K	18[D]	HIS	7.5
1	4-L	18[D]	HIS	7.5
1	4-O	21[D]	TYR	7.5
1	1-I	131[A]	TRP	7.5
1	1-O	122[A]	ASP	7.5
1	1-P	205[A]	SER	7.5
1	2-I	131[B]	TRP	7.5
1	2-O	122[B]	ASP	7.5
1	2-P	205[B]	SER	7.5
1	3-O	122[C]	ASP	7.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-P	205[C]	SER	7.5
1	4-O	122[D]	ASP	7.5
1	4-P	205[D]	SER	7.5
1	3-I	131[C]	TRP	7.5
1	4-I	131[D]	TRP	7.5
1	1-J	190[A]	PHE	7.5
1	2-J	190[B]	PHE	7.5
1	3-J	190[C]	PHE	7.5
1	4-J	190[D]	PHE	7.5
1	1-O	182[A]	MET	7.5
1	2-O	182[B]	MET	7.5
1	3-O	182[C]	MET	7.5
1	4-O	182[D]	MET	7.5
1	1-J	291[A]	ASP	7.5
1	2-J	291[B]	ASP	7.5
1	3-J	291[C]	ASP	7.5
1	4-J	291[D]	ASP	7.5
1	1-K	214[A]	TYR	7.5
1	2-K	214[B]	TYR	7.5
1	3-K	214[C]	TYR	7.5
1	4-K	214[D]	TYR	7.5
1	1-L	147[A]	GLY	7.5
1	2-L	147[B]	GLY	7.5
1	3-L	147[C]	GLY	7.5
1	4-L	147[D]	GLY	7.5
1	1-N	248[A]	GLU	7.5
1	2-N	248[B]	GLU	7.5
1	3-N	248[C]	GLU	7.5
1	4-N	248[D]	GLU	7.5
1	1-I	315[A]	MET	7.5
1	2-I	315[B]	MET	7.5
1	3-I	315[C]	MET	7.5
1	4-I	315[D]	MET	7.5
1	1-N	68[A]	THR	7.5
1	2-N	68[B]	THR	7.5
1	3-N	68[C]	THR	7.5
1	4-N	68[D]	THR	7.5
1	1-I	24[A]	LEU	7.5
1	1-I	80[A]	LEU	7.5
1	1-M	115[A]	LEU	7.5
1	2-I	24[B]	LEU	7.5
1	2-I	80[B]	LEU	7.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-M	115[B]	LEU	7.5
1	3-I	24[C]	LEU	7.5
1	3-I	80[C]	LEU	7.5
1	3-M	115[C]	LEU	7.5
1	4-I	24[D]	LEU	7.5
1	4-I	80[D]	LEU	7.5
1	4-M	115[D]	LEU	7.5
1	1-L	112[A]	LYS	7.5
1	2-L	112[B]	LYS	7.5
1	3-L	112[C]	LYS	7.5
1	4-L	112[D]	LYS	7.5
1	1-O	308[A]	TRP	7.5
1	2-O	308[B]	TRP	7.5
1	3-O	308[C]	TRP	7.5
1	4-O	308[D]	TRP	7.5
1	1-J	60[A]	ASP	7.5
1	1-J	142[A]	ASP	7.5
1	2-J	60[B]	ASP	7.5
1	2-J	142[B]	ASP	7.5
1	3-J	60[C]	ASP	7.5
1	3-J	142[C]	ASP	7.5
1	4-J	60[D]	ASP	7.5
1	4-J	142[D]	ASP	7.5
1	1-J	263[A]	VAL	7.5
1	1-O	263[A]	VAL	7.5
1	2-J	263[B]	VAL	7.5
1	2-O	263[B]	VAL	7.5
1	3-J	263[C]	VAL	7.5
1	3-O	263[C]	VAL	7.5
1	4-J	263[D]	VAL	7.5
1	4-O	263[D]	VAL	7.5
1	1-K	30[A]	ILE	7.5
1	2-K	30[B]	ILE	7.5
1	3-K	30[C]	ILE	7.5
1	4-K	30[D]	ILE	7.5
1	1-K	127[A]	TYR	7.5
1	2-K	127[B]	TYR	7.5
1	3-K	127[C]	TYR	7.5
1	4-K	127[D]	TYR	7.5
1	1-I	282[A]	TRP	7.4
1	1-M	237[A]	MET	7.4
1	2-I	282[B]	TRP	7.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-M	237[B]	MET	7.4
1	3-I	282[C]	TRP	7.4
1	3-M	237[C]	MET	7.4
1	4-I	282[D]	TRP	7.4
1	4-M	237[D]	MET	7.4
1	1-J	299[A]	ASP	7.4
1	2-J	299[B]	ASP	7.4
1	3-J	299[C]	ASP	7.4
1	4-J	299[D]	ASP	7.4
1	1-I	87[A]	CYS	7.4
1	1-K	101[A]	TRP	7.4
1	2-I	87[B]	CYS	7.4
1	2-K	101[B]	TRP	7.4
1	3-I	87[C]	CYS	7.4
1	3-K	101[C]	TRP	7.4
1	4-I	87[D]	CYS	7.4
1	4-K	101[D]	TRP	7.4
1	1-K	307[A]	PRO	7.4
1	1-O	246[A]	PRO	7.4
1	2-K	307[B]	PRO	7.4
1	2-O	246[B]	PRO	7.4
1	3-K	307[C]	PRO	7.4
1	3-O	246[C]	PRO	7.4
1	4-K	307[D]	PRO	7.4
1	4-O	246[D]	PRO	7.4
1	1-J	80[A]	LEU	7.4
1	1-K	206[A]	LYS	7.4
1	2-J	80[B]	LEU	7.4
1	2-K	206[B]	LYS	7.4
1	3-J	80[C]	LEU	7.4
1	3-K	206[C]	LYS	7.4
1	4-J	80[D]	LEU	7.4
1	4-K	206[D]	LYS	7.4
1	1-O	88[A]	THR	7.4
1	1-P	174[A]	TRP	7.4
1	2-O	88[B]	THR	7.4
1	2-P	174[B]	TRP	7.4
1	3-O	88[C]	THR	7.4
1	3-P	174[C]	TRP	7.4
1	4-O	88[D]	THR	7.4
1	4-P	174[D]	TRP	7.4
1	1-L	156[A]	VAL	7.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-M	258[A]	VAL	7.4
1	1-O	69[A]	LYS	7.4
1	2-L	156[B]	VAL	7.4
1	2-M	258[B]	VAL	7.4
1	2-O	69[B]	LYS	7.4
1	3-L	156[C]	VAL	7.4
1	3-M	258[C]	VAL	7.4
1	3-O	69[C]	LYS	7.4
1	4-L	156[D]	VAL	7.4
1	4-M	258[D]	VAL	7.4
1	4-O	69[D]	LYS	7.4
1	1-M	287[A]	GLU	7.4
1	2-M	287[B]	GLU	7.4
1	3-M	287[C]	GLU	7.4
1	4-M	287[D]	GLU	7.4
1	1-N	205[A]	SER	7.4
1	1-O	172[A]	SER	7.4
1	2-N	205[B]	SER	7.4
1	2-O	172[B]	SER	7.4
1	3-N	205[C]	SER	7.4
1	3-O	172[C]	SER	7.4
1	4-N	205[D]	SER	7.4
1	4-O	172[D]	SER	7.4
1	1-P	38[A]	PRO	7.4
1	2-P	38[B]	PRO	7.4
1	3-P	38[C]	PRO	7.4
1	4-P	38[D]	PRO	7.4
1	1-I	267[A]	LYS	7.4
1	2-I	267[B]	LYS	7.4
1	3-I	267[C]	LYS	7.4
1	4-I	267[D]	LYS	7.4
1	1-M	19[A]	GLU	7.4
1	2-M	19[B]	GLU	7.4
1	3-M	19[C]	GLU	7.4
1	4-M	19[D]	GLU	7.4
1	1-K	61[A]	ASN	7.4
1	2-K	61[B]	ASN	7.4
1	3-K	61[C]	ASN	7.4
1	4-K	61[D]	ASN	7.4
1	1-M	126[A]	VAL	7.4
1	1-P	113[A]	VAL	7.4
1	2-M	126[B]	VAL	7.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-P	113[B]	VAL	7.4
1	3-M	126[C]	VAL	7.4
1	3-P	113[C]	VAL	7.4
1	4-M	126[D]	VAL	7.4
1	4-P	113[D]	VAL	7.4
1	1-O	94[A]	SER	7.4
1	2-O	94[B]	SER	7.4
1	3-O	94[C]	SER	7.4
1	4-O	94[D]	SER	7.4
1	1-D	200[A]	ALA	7.4
1	1-I	256[A]	ALA	7.4
1	1-L	242[A]	THR	7.4
1	2-D	200[B]	ALA	7.4
1	2-I	256[B]	ALA	7.4
1	2-L	242[B]	THR	7.4
1	3-D	200[C]	ALA	7.4
1	3-I	256[C]	ALA	7.4
1	3-L	242[C]	THR	7.4
1	4-D	200[D]	ALA	7.4
1	4-I	256[D]	ALA	7.4
1	4-L	242[D]	THR	7.4
1	1-M	215[A]	GLN	7.4
1	2-M	215[B]	GLN	7.4
1	3-M	215[C]	GLN	7.4
1	4-M	215[D]	GLN	7.4
1	1-P	253[A]	MET	7.3
1	2-P	253[B]	MET	7.3
1	3-P	253[C]	MET	7.3
1	4-P	253[D]	MET	7.3
1	1-I	266[A]	LEU	7.3
1	1-L	24[A]	LEU	7.3
1	2-I	266[B]	LEU	7.3
1	2-L	24[B]	LEU	7.3
1	3-I	266[C]	LEU	7.3
1	3-L	24[C]	LEU	7.3
1	4-I	266[D]	LEU	7.3
1	4-L	24[D]	LEU	7.3
1	1-K	188[A]	HIS	7.3
1	2-K	188[B]	HIS	7.3
1	3-K	188[C]	HIS	7.3
1	4-K	188[D]	HIS	7.3
1	1-L	305[A]	TYR	7.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-L	305[B]	TYR	7.3
1	3-L	305[C]	TYR	7.3
1	4-L	305[D]	TYR	7.3
1	1-O	258[A]	VAL	7.3
1	2-O	258[B]	VAL	7.3
1	3-O	258[C]	VAL	7.3
1	4-O	258[D]	VAL	7.3
1	1-L	131[A]	TRP	7.3
1	2-L	131[B]	TRP	7.3
1	3-L	131[C]	TRP	7.3
1	4-L	131[D]	TRP	7.3
1	1-I	112[A]	LYS	7.3
1	2-I	112[B]	LYS	7.3
1	3-I	112[C]	LYS	7.3
1	4-I	112[D]	LYS	7.3
1	1-I	220[A]	LEU	7.3
1	2-I	220[B]	LEU	7.3
1	3-I	220[C]	LEU	7.3
1	4-I	220[D]	LEU	7.3
1	1-L	21[A]	TYR	7.3
1	2-L	21[B]	TYR	7.3
1	3-L	21[C]	TYR	7.3
1	4-L	21[D]	TYR	7.3
1	1-J	167[A]	ARG	7.3
1	2-J	167[B]	ARG	7.3
1	3-J	167[C]	ARG	7.3
1	4-J	167[D]	ARG	7.3
1	1-I	46[A]	VAL	7.3
1	2-I	46[B]	VAL	7.3
1	3-I	46[C]	VAL	7.3
1	4-I	46[D]	VAL	7.3
1	1-P	26[A]	LEU	7.3
1	2-P	26[B]	LEU	7.3
1	3-P	26[C]	LEU	7.3
1	4-P	26[D]	LEU	7.3
1	1-J	59[A]	ALA	7.3
1	2-J	59[B]	ALA	7.3
1	3-J	59[C]	ALA	7.3
1	4-J	59[D]	ALA	7.3
1	1-I	94[A]	SER	7.3
1	2-I	94[B]	SER	7.3
1	3-I	94[C]	SER	7.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-I	94[D]	SER	7.3
1	1-N	272[A]	ARG	7.3
1	2-N	272[B]	ARG	7.3
1	3-N	272[C]	ARG	7.3
1	4-N	272[D]	ARG	7.3
1	1-K	71[A]	VAL	7.3
1	1-N	224[A]	VAL	7.3
1	2-K	71[B]	VAL	7.3
1	2-N	224[B]	VAL	7.3
1	3-K	71[C]	VAL	7.3
1	3-N	224[C]	VAL	7.3
1	4-K	71[D]	VAL	7.3
1	4-N	224[D]	VAL	7.3
1	1-M	240[A]	LEU	7.3
1	2-M	240[B]	LEU	7.3
1	3-M	240[C]	LEU	7.3
1	4-M	240[D]	LEU	7.3
1	1-J	136[A]	ALA	7.3
1	1-O	90[A]	ALA	7.3
1	2-J	136[B]	ALA	7.3
1	2-O	90[B]	ALA	7.3
1	3-J	136[C]	ALA	7.3
1	3-O	90[C]	ALA	7.3
1	4-J	136[D]	ALA	7.3
1	4-O	90[D]	ALA	7.3
1	1-K	57[A]	SER	7.3
1	2-K	57[B]	SER	7.3
1	3-K	57[C]	SER	7.3
1	4-K	57[D]	SER	7.3
1	1-K	144[A]	ASP	7.3
1	1-K	312[A]	ASP	7.3
1	2-K	144[B]	ASP	7.3
1	2-K	312[B]	ASP	7.3
1	3-K	144[C]	ASP	7.3
1	3-K	312[C]	ASP	7.3
1	4-K	144[D]	ASP	7.3
1	4-K	312[D]	ASP	7.3
1	1-O	148[A]	LYS	7.3
1	2-O	148[B]	LYS	7.3
1	3-O	148[C]	LYS	7.3
1	4-O	148[D]	LYS	7.3
1	1-N	73[A]	LEU	7.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-N	80[A]	LEU	7.3
1	2-N	73[B]	LEU	7.3
1	2-N	80[B]	LEU	7.3
1	3-N	73[C]	LEU	7.3
1	3-N	80[C]	LEU	7.3
1	4-N	73[D]	LEU	7.3
1	4-N	80[D]	LEU	7.3
1	1-O	95[A]	SER	7.3
1	2-O	95[B]	SER	7.3
1	3-O	95[C]	SER	7.3
1	4-O	95[D]	SER	7.3
1	1-J	231[A]	TYR	7.3
1	2-J	231[B]	TYR	7.3
1	3-J	231[C]	TYR	7.3
1	4-J	231[D]	TYR	7.3
1	1-I	126[A]	VAL	7.3
1	2-I	126[B]	VAL	7.3
1	3-I	126[C]	VAL	7.3
1	4-I	126[D]	VAL	7.3
1	1-L	196[A]	SER	7.2
1	2-L	196[B]	SER	7.2
1	3-L	196[C]	SER	7.2
1	4-L	196[D]	SER	7.2
1	1-P	208[A]	LYS	7.2
1	2-P	208[B]	LYS	7.2
1	3-P	208[C]	LYS	7.2
1	4-P	208[D]	LYS	7.2
1	1-I	83[A]	PHE	7.2
1	1-J	109[A]	PHE	7.2
1	2-I	83[B]	PHE	7.2
1	2-J	109[B]	PHE	7.2
1	3-I	83[C]	PHE	7.2
1	3-J	109[C]	PHE	7.2
1	4-I	83[D]	PHE	7.2
1	4-J	109[D]	PHE	7.2
1	1-O	142[A]	ASP	7.2
1	2-O	142[B]	ASP	7.2
1	3-O	142[C]	ASP	7.2
1	4-O	142[D]	ASP	7.2
1	1-P	164[A]	PRO	7.2
1	2-P	164[B]	PRO	7.2
1	3-P	164[C]	PRO	7.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-P	164[D]	PRO	7.2
1	1-P	75[A]	GLY	7.2
1	2-P	75[B]	GLY	7.2
1	3-P	75[C]	GLY	7.2
1	4-P	75[D]	GLY	7.2
1	1-K	78[A]	ALA	7.2
1	2-K	78[B]	ALA	7.2
1	3-K	78[C]	ALA	7.2
1	4-K	78[D]	ALA	7.2
1	1-M	62[A]	THR	7.2
1	2-M	62[B]	THR	7.2
1	3-M	62[C]	THR	7.2
1	4-M	62[D]	THR	7.2
1	1-P	114[A]	GLY	7.2
1	2-P	114[B]	GLY	7.2
1	3-P	114[C]	GLY	7.2
1	4-P	114[D]	GLY	7.2
1	1-N	141[A]	ALA	7.2
1	2-N	141[B]	ALA	7.2
1	3-N	141[C]	ALA	7.2
1	4-N	141[D]	ALA	7.2
1	1-N	269[A]	GLN	7.2
1	2-N	269[B]	GLN	7.2
1	3-N	269[C]	GLN	7.2
1	4-N	269[D]	GLN	7.2
1	1-P	158[A]	ASP	7.2
1	2-P	158[B]	ASP	7.2
1	3-P	158[C]	ASP	7.2
1	4-P	158[D]	ASP	7.2
1	1-L	217[A]	SER	7.2
1	2-L	217[B]	SER	7.2
1	3-L	217[C]	SER	7.2
1	4-L	217[D]	SER	7.2
1	1-P	252[A]	GLN	7.2
1	2-P	252[B]	GLN	7.2
1	3-P	252[C]	GLN	7.2
1	4-P	252[D]	GLN	7.2
1	1-J	298[A]	GLU	7.2
1	1-L	178[A]	ASP	7.2
1	2-J	298[B]	GLU	7.2
1	2-L	178[B]	ASP	7.2
1	3-J	298[C]	GLU	7.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-L	178[C]	ASP	7.2
1	4-J	298[D]	GLU	7.2
1	4-L	178[D]	ASP	7.2
1	1-L	227[A]	ASN	7.2
1	2-L	227[B]	ASN	7.2
1	3-L	227[C]	ASN	7.2
1	4-L	227[D]	ASN	7.2
1	1-M	28[A]	ARG	7.2
1	2-M	28[B]	ARG	7.2
1	3-M	28[C]	ARG	7.2
1	4-M	28[D]	ARG	7.2
1	1-J	194[A]	PHE	7.2
1	1-L	309[A]	GLY	7.2
1	1-M	75[A]	GLY	7.2
1	2-J	194[B]	PHE	7.2
1	2-L	309[B]	GLY	7.2
1	2-M	75[B]	GLY	7.2
1	3-J	194[C]	PHE	7.2
1	3-L	309[C]	GLY	7.2
1	3-M	75[C]	GLY	7.2
1	4-J	194[D]	PHE	7.2
1	4-L	309[D]	GLY	7.2
1	4-M	75[D]	GLY	7.2
1	1-J	148[A]	LYS	7.2
1	2-J	148[B]	LYS	7.2
1	3-J	148[C]	LYS	7.2
1	4-J	148[D]	LYS	7.2
1	1-L	171[A]	LEU	7.2
1	2-L	171[B]	LEU	7.2
1	3-L	171[C]	LEU	7.2
1	4-L	171[D]	LEU	7.2
1	1-I	260[A]	ARG	7.2
1	2-I	260[B]	ARG	7.2
1	3-I	260[C]	ARG	7.2
1	4-I	260[D]	ARG	7.2
1	1-L	247[A]	HIS	7.2
1	2-L	247[B]	HIS	7.2
1	3-L	247[C]	HIS	7.2
1	4-L	247[D]	HIS	7.2
1	1-L	190[A]	PHE	7.2
1	1-N	49[A]	PHE	7.2
1	2-L	190[B]	PHE	7.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-N	49[B]	PHE	7.2
1	3-L	190[C]	PHE	7.2
1	3-N	49[C]	PHE	7.2
1	4-L	190[D]	PHE	7.2
1	4-N	49[D]	PHE	7.2
1	1-N	222[A]	LEU	7.2
1	2-N	222[B]	LEU	7.2
1	3-N	222[C]	LEU	7.2
1	4-N	222[D]	LEU	7.2
1	1-I	262[A]	HIS	7.2
1	1-N	225[A]	PRO	7.2
1	2-I	262[B]	HIS	7.2
1	2-N	225[B]	PRO	7.2
1	3-I	262[C]	HIS	7.2
1	3-N	225[C]	PRO	7.2
1	4-I	262[D]	HIS	7.2
1	4-N	225[D]	PRO	7.2
1	1-M	85[A]	SER	7.2
1	2-M	85[B]	SER	7.2
1	3-M	85[C]	SER	7.2
1	4-M	85[D]	SER	7.2
1	1-O	277[A]	PHE	7.1
1	2-O	277[B]	PHE	7.1
1	3-O	277[C]	PHE	7.1
1	4-O	277[D]	PHE	7.1
1	1-J	303[A]	GLU	7.1
1	1-P	273[A]	GLU	7.1
1	2-J	303[B]	GLU	7.1
1	2-P	273[B]	GLU	7.1
1	3-J	303[C]	GLU	7.1
1	3-P	273[C]	GLU	7.1
1	4-J	303[D]	GLU	7.1
1	4-P	273[D]	GLU	7.1
1	1-L	293[A]	ASP	7.1
1	1-N	172[A]	SER	7.1
1	2-L	293[B]	ASP	7.1
1	2-N	172[B]	SER	7.1
1	3-L	293[C]	ASP	7.1
1	3-N	172[C]	SER	7.1
1	4-L	293[D]	ASP	7.1
1	4-N	172[D]	SER	7.1
1	1-L	68[A]	THR	7.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-L	68[B]	THR	7.1
1	3-L	68[C]	THR	7.1
1	4-L	68[D]	THR	7.1
1	1-L	229[A]	ALA	7.1
1	2-L	229[B]	ALA	7.1
1	3-L	229[C]	ALA	7.1
1	4-L	229[D]	ALA	7.1
1	1-O	181[A]	LEU	7.1
1	2-O	181[B]	LEU	7.1
1	3-O	181[C]	LEU	7.1
1	4-O	181[D]	LEU	7.1
1	1-N	120[A]	GLU	7.1
1	2-N	120[B]	GLU	7.1
1	3-N	120[C]	GLU	7.1
1	4-N	120[D]	GLU	7.1
1	1-K	89[A]	ASP	7.1
1	1-L	246[A]	PRO	7.1
1	1-O	255[A]	ASP	7.1
1	2-K	89[B]	ASP	7.1
1	2-L	246[B]	PRO	7.1
1	2-O	255[B]	ASP	7.1
1	3-K	89[C]	ASP	7.1
1	3-L	246[C]	PRO	7.1
1	3-O	255[C]	ASP	7.1
1	4-K	89[D]	ASP	7.1
1	4-L	246[D]	PRO	7.1
1	4-O	255[D]	ASP	7.1
1	1-I	221[A]	GLY	7.1
1	2-I	221[B]	GLY	7.1
1	3-I	221[C]	GLY	7.1
1	4-I	221[D]	GLY	7.1
1	1-K	217[A]	SER	7.1
1	1-M	267[A]	LYS	7.1
1	1-N	155[A]	ARG	7.1
1	2-K	217[B]	SER	7.1
1	2-M	267[B]	LYS	7.1
1	2-N	155[B]	ARG	7.1
1	3-K	217[C]	SER	7.1
1	3-M	267[C]	LYS	7.1
1	3-N	155[C]	ARG	7.1
1	4-K	217[D]	SER	7.1
1	4-M	267[D]	LYS	7.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-N	155[D]	ARG	7.1
1	1-M	189[A]	MET	7.1
1	2-M	189[B]	MET	7.1
1	3-M	189[C]	MET	7.1
1	4-M	189[D]	MET	7.1
1	1-L	289[A]	ILE	7.1
1	1-L	311[A]	ILE	7.1
1	1-N	228[A]	ILE	7.1
1	1-L	194[A]	PHE	7.1
1	1-N	64[A]	PRO	7.1
1	1-N	226[A]	PHE	7.1
1	1-N	274[A]	PRO	7.1
1	2-L	289[B]	ILE	7.1
1	2-L	311[B]	ILE	7.1
1	2-N	64[B]	PRO	7.1
1	2-N	228[B]	ILE	7.1
1	2-L	194[B]	PHE	7.1
1	2-N	226[B]	PHE	7.1
1	2-N	274[B]	PRO	7.1
1	3-L	289[C]	ILE	7.1
1	3-L	311[C]	ILE	7.1
1	3-N	64[C]	PRO	7.1
1	3-N	228[C]	ILE	7.1
1	3-L	194[C]	PHE	7.1
1	3-N	226[C]	PHE	7.1
1	3-N	274[C]	PRO	7.1
1	4-L	289[D]	ILE	7.1
1	4-L	311[D]	ILE	7.1
1	4-N	64[D]	PRO	7.1
1	4-N	228[D]	ILE	7.1
1	4-L	194[D]	PHE	7.1
1	4-N	226[D]	PHE	7.1
1	4-N	274[D]	PRO	7.1
1	1-J	145[A]	TYR	7.1
1	2-J	145[B]	TYR	7.1
1	3-J	145[C]	TYR	7.1
1	4-J	145[D]	TYR	7.1
1	1-O	65[A]	LEU	7.1
1	2-O	65[B]	LEU	7.1
1	3-O	65[C]	LEU	7.1
1	4-O	65[D]	LEU	7.1
1	1-K	133[A]	HIS	7.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-K	133[B]	HIS	7.1
1	3-K	133[C]	HIS	7.1
1	4-K	133[D]	HIS	7.1
1	1-J	157[A]	ILE	7.1
1	2-J	157[B]	ILE	7.1
1	3-J	157[C]	ILE	7.1
1	4-J	157[D]	ILE	7.1
1	1-M	316[A]	SER	7.1
1	2-M	316[B]	SER	7.1
1	3-M	316[C]	SER	7.1
1	4-M	316[D]	SER	7.1
1	1-P	261[A]	ASP	7.1
1	2-P	261[B]	ASP	7.1
1	3-P	261[C]	ASP	7.1
1	4-P	261[D]	ASP	7.1
1	1-M	80[A]	LEU	7.1
1	1-M	184[A]	LEU	7.1
1	1-O	153[A]	LEU	7.1
1	2-M	80[B]	LEU	7.1
1	2-M	184[B]	LEU	7.1
1	2-O	153[B]	LEU	7.1
1	3-M	80[C]	LEU	7.1
1	3-M	184[C]	LEU	7.1
1	3-O	153[C]	LEU	7.1
1	4-M	80[D]	LEU	7.1
1	4-M	184[D]	LEU	7.1
1	4-O	153[D]	LEU	7.1
1	1-L	19[A]	GLU	7.1
1	2-L	19[B]	GLU	7.1
1	3-L	19[C]	GLU	7.1
1	4-L	19[D]	GLU	7.1
1	1-O	204[A]	GLY	7.1
1	2-O	204[B]	GLY	7.1
1	3-O	204[C]	GLY	7.1
1	4-O	204[D]	GLY	7.1
1	1-P	49[A]	PHE	7.1
1	2-P	49[B]	PHE	7.1
1	3-P	49[C]	PHE	7.1
1	4-P	49[D]	PHE	7.1
1	1-K	22[A]	GLN	7.0
1	1-O	154[A]	GLN	7.0
1	2-K	22[B]	GLN	7.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-O	154[B]	GLN	7.0
1	3-K	22[C]	GLN	7.0
1	3-O	154[C]	GLN	7.0
1	4-K	22[D]	GLN	7.0
1	4-O	154[D]	GLN	7.0
1	1-K	142[A]	ASP	7.0
1	1-N	178[A]	ASP	7.0
1	2-K	142[B]	ASP	7.0
1	2-N	178[B]	ASP	7.0
1	3-K	142[C]	ASP	7.0
1	3-N	178[C]	ASP	7.0
1	4-K	142[D]	ASP	7.0
1	4-N	178[D]	ASP	7.0
1	1-P	138[A]	TYR	7.0
1	2-P	138[B]	TYR	7.0
1	3-P	138[C]	TYR	7.0
1	4-P	138[D]	TYR	7.0
1	1-N	123[A]	LEU	7.0
1	1-O	80[A]	LEU	7.0
1	2-N	123[B]	LEU	7.0
1	2-O	80[B]	LEU	7.0
1	3-N	123[C]	LEU	7.0
1	3-O	80[C]	LEU	7.0
1	4-N	123[D]	LEU	7.0
1	4-O	80[D]	LEU	7.0
1	1-J	195[A]	VAL	7.0
1	2-J	195[B]	VAL	7.0
1	3-J	195[C]	VAL	7.0
1	4-J	195[D]	VAL	7.0
1	1-K	100[A]	ILE	7.0
1	1-L	40[A]	ARG	7.0
1	2-K	100[B]	ILE	7.0
1	2-L	40[B]	ARG	7.0
1	3-K	100[C]	ILE	7.0
1	3-L	40[C]	ARG	7.0
1	4-K	100[D]	ILE	7.0
1	4-L	40[D]	ARG	7.0
1	1-I	67[A]	THR	7.0
1	2-I	67[B]	THR	7.0
1	3-I	67[C]	THR	7.0
1	4-I	67[D]	THR	7.0
1	1-M	84[A]	VAL	7.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-M	84[B]	VAL	7.0
1	3-M	84[C]	VAL	7.0
1	4-M	84[D]	VAL	7.0
1	1-M	284[A]	ARG	7.0
1	2-M	284[B]	ARG	7.0
1	3-M	284[C]	ARG	7.0
1	4-M	284[D]	ARG	7.0
1	1-K	75[A]	GLY	7.0
1	1-P	206[A]	LYS	7.0
1	2-K	75[B]	GLY	7.0
1	2-P	206[B]	LYS	7.0
1	3-K	75[C]	GLY	7.0
1	3-P	206[C]	LYS	7.0
1	4-K	75[D]	GLY	7.0
1	4-P	206[D]	LYS	7.0
1	1-M	271[A]	GLU	7.0
1	2-M	271[B]	GLU	7.0
1	3-M	271[C]	GLU	7.0
1	4-M	271[D]	GLU	7.0
1	1-J	233[A]	LEU	7.0
1	1-L	48[A]	LEU	7.0
1	1-N	233[A]	LEU	7.0
1	2-J	233[B]	LEU	7.0
1	2-L	48[B]	LEU	7.0
1	2-N	233[B]	LEU	7.0
1	3-J	233[C]	LEU	7.0
1	3-L	48[C]	LEU	7.0
1	3-N	233[C]	LEU	7.0
1	4-J	233[D]	LEU	7.0
1	4-L	48[D]	LEU	7.0
1	4-N	233[D]	LEU	7.0
1	1-M	32[A]	ASN	7.0
1	2-M	32[B]	ASN	7.0
1	3-M	32[C]	ASN	7.0
1	4-M	32[D]	ASN	7.0
1	1-K	135[A]	GLY	7.0
1	1-N	114[A]	GLY	7.0
1	1-P	100[A]	ILE	7.0
1	2-K	135[B]	GLY	7.0
1	2-N	114[B]	GLY	7.0
1	2-P	100[B]	ILE	7.0
1	3-K	135[C]	GLY	7.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-N	114[C]	GLY	7.0
1	3-P	100[C]	ILE	7.0
1	4-K	135[D]	GLY	7.0
1	4-N	114[D]	GLY	7.0
1	4-P	100[D]	ILE	7.0
1	1-J	45[A]	THR	7.0
1	1-M	88[A]	THR	7.0
1	2-J	45[B]	THR	7.0
1	2-M	88[B]	THR	7.0
1	3-J	45[C]	THR	7.0
1	3-M	88[C]	THR	7.0
1	4-J	45[D]	THR	7.0
1	4-M	88[D]	THR	7.0
1	1-J	287[A]	GLU	7.0
1	2-J	287[B]	GLU	7.0
1	3-J	287[C]	GLU	7.0
1	4-J	287[D]	GLU	7.0
1	1-P	59[A]	ALA	7.0
1	2-P	59[B]	ALA	7.0
1	3-P	59[C]	ALA	7.0
1	4-P	59[D]	ALA	7.0
1	1-M	214[A]	TYR	7.0
1	2-M	214[B]	TYR	7.0
1	3-M	214[C]	TYR	7.0
1	4-M	214[D]	TYR	7.0
1	1-O	245[A]	GLU	7.0
1	2-O	245[B]	GLU	7.0
1	3-O	245[C]	GLU	7.0
1	4-O	245[D]	GLU	7.0
1	1-K	156[A]	VAL	7.0
1	1-M	252[A]	GLN	7.0
1	2-K	156[B]	VAL	7.0
1	2-M	252[B]	GLN	7.0
1	3-K	156[C]	VAL	7.0
1	3-M	252[C]	GLN	7.0
1	4-K	156[D]	VAL	7.0
1	4-M	252[D]	GLN	7.0
1	1-K	207[A]	PRO	7.0
1	1-L	143[A]	GLY	7.0
1	1-O	243[A]	ASP	7.0
1	2-K	207[B]	PRO	7.0
1	2-L	143[B]	GLY	7.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-O	243[B]	ASP	7.0
1	3-K	207[C]	PRO	7.0
1	3-L	143[C]	GLY	7.0
1	3-O	243[C]	ASP	7.0
1	4-K	207[D]	PRO	7.0
1	4-L	143[D]	GLY	7.0
1	4-O	243[D]	ASP	7.0
1	1-L	45[A]	THR	7.0
1	2-L	45[B]	THR	7.0
1	3-L	45[C]	THR	7.0
1	4-L	45[D]	THR	7.0
1	1-N	96[A]	GLN	6.9
1	2-N	96[B]	GLN	6.9
1	3-N	96[C]	GLN	6.9
1	4-N	96[D]	GLN	6.9
1	1-K	212[A]	LEU	6.9
1	2-K	212[B]	LEU	6.9
1	3-K	212[C]	LEU	6.9
1	4-K	212[D]	LEU	6.9
1	1-L	264[A]	GLU	6.9
1	2-L	264[B]	GLU	6.9
1	3-L	264[C]	GLU	6.9
1	4-L	264[D]	GLU	6.9
1	1-M	110[A]	LEU	6.9
1	2-M	110[B]	LEU	6.9
1	3-M	110[C]	LEU	6.9
1	4-M	110[D]	LEU	6.9
1	1-L	182[A]	MET	6.9
1	2-L	182[B]	MET	6.9
1	3-L	182[C]	MET	6.9
1	4-L	182[D]	MET	6.9
1	1-J	284[A]	ARG	6.9
1	1-K	277[A]	PHE	6.9
1	2-J	284[B]	ARG	6.9
1	2-K	277[B]	PHE	6.9
1	3-J	284[C]	ARG	6.9
1	3-K	277[C]	PHE	6.9
1	4-J	284[D]	ARG	6.9
1	4-K	277[D]	PHE	6.9
1	1-L	188[A]	HIS	6.9
1	2-L	188[B]	HIS	6.9
1	3-L	188[C]	HIS	6.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-L	188[D]	HIS	6.9
1	1-F	202[A]	SER	6.9
1	1-I	76[A]	VAL	6.9
1	2-F	202[B]	SER	6.9
1	2-I	76[B]	VAL	6.9
1	3-F	202[C]	SER	6.9
1	3-I	76[C]	VAL	6.9
1	4-F	202[D]	SER	6.9
1	4-I	76[D]	VAL	6.9
1	1-O	102[A]	ASP	6.9
1	2-O	102[B]	ASP	6.9
1	3-O	102[C]	ASP	6.9
1	4-O	102[D]	ASP	6.9
1	1-I	139[A]	THR	6.9
1	1-J	49[A]	PHE	6.9
1	1-L	54[A]	PHE	6.9
1	2-I	139[B]	THR	6.9
1	2-J	49[B]	PHE	6.9
1	2-L	54[B]	PHE	6.9
1	3-I	139[C]	THR	6.9
1	3-J	49[C]	PHE	6.9
1	3-L	54[C]	PHE	6.9
1	4-I	139[D]	THR	6.9
1	4-J	49[D]	PHE	6.9
1	4-L	54[D]	PHE	6.9
1	1-K	308[A]	TRP	6.9
1	2-K	308[B]	TRP	6.9
1	3-K	308[C]	TRP	6.9
1	4-K	308[D]	TRP	6.9
1	1-J	64[A]	PRO	6.9
1	2-J	64[B]	PRO	6.9
1	3-J	64[C]	PRO	6.9
1	4-J	64[D]	PRO	6.9
1	1-K	21[A]	TYR	6.9
1	2-K	21[B]	TYR	6.9
1	3-K	21[C]	TYR	6.9
1	4-K	21[D]	TYR	6.9
1	1-I	165[A]	THR	6.9
1	2-I	165[B]	THR	6.9
1	3-I	165[C]	THR	6.9
1	4-I	165[D]	THR	6.9
1	1-N	238[A]	ILE	6.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-N	238[B]	ILE	6.9
1	3-N	238[C]	ILE	6.9
1	4-N	238[D]	ILE	6.9
1	1-O	137[A]	GLU	6.9
1	2-O	137[B]	GLU	6.9
1	3-O	137[C]	GLU	6.9
1	4-O	137[D]	GLU	6.9
1	1-J	212[A]	LEU	6.9
1	2-J	212[B]	LEU	6.9
1	3-J	212[C]	LEU	6.9
1	4-J	212[D]	LEU	6.9
1	1-L	203[A]	PRO	6.9
1	1-N	278[A]	PRO	6.9
1	2-L	203[B]	PRO	6.9
1	2-N	278[B]	PRO	6.9
1	3-L	203[C]	PRO	6.9
1	3-N	278[C]	PRO	6.9
1	4-L	203[D]	PRO	6.9
1	4-N	278[D]	PRO	6.9
1	1-P	104[A]	ASN	6.9
1	1-P	193[A]	PHE	6.9
1	2-P	104[B]	ASN	6.9
1	2-P	193[B]	PHE	6.9
1	3-P	104[C]	ASN	6.9
1	3-P	193[C]	PHE	6.9
1	4-P	104[D]	ASN	6.9
1	4-P	193[D]	PHE	6.9
1	1-N	315[A]	MET	6.9
1	2-N	315[B]	MET	6.9
1	3-N	315[C]	MET	6.9
1	4-N	315[D]	MET	6.9
1	1-K	157[A]	ILE	6.9
1	1-N	311[A]	ILE	6.9
1	2-K	157[B]	ILE	6.9
1	2-N	311[B]	ILE	6.9
1	3-K	157[C]	ILE	6.9
1	3-N	311[C]	ILE	6.9
1	4-K	157[D]	ILE	6.9
1	4-N	311[D]	ILE	6.9
1	1-J	239[A]	ALA	6.8
1	1-L	267[A]	LYS	6.8
1	1-O	207[A]	PRO	6.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-O	304[A]	GLY	6.8
1	2-J	239[B]	ALA	6.8
1	2-L	267[B]	LYS	6.8
1	2-O	207[B]	PRO	6.8
1	2-O	304[B]	GLY	6.8
1	3-L	267[C]	LYS	6.8
1	3-O	207[C]	PRO	6.8
1	3-J	239[C]	ALA	6.8
1	3-O	304[C]	GLY	6.8
1	4-L	267[D]	LYS	6.8
1	4-O	207[D]	PRO	6.8
1	4-J	239[D]	ALA	6.8
1	4-O	304[D]	GLY	6.8
1	1-K	39[A]	ASP	6.8
1	2-K	39[B]	ASP	6.8
1	3-K	39[C]	ASP	6.8
1	4-K	39[D]	ASP	6.8
1	1-P	172[A]	SER	6.8
1	2-P	172[B]	SER	6.8
1	3-P	172[C]	SER	6.8
1	4-P	172[D]	SER	6.8
1	1-P	117[A]	HIS	6.8
1	1-P	236[A]	HIS	6.8
1	2-P	117[B]	HIS	6.8
1	2-P	236[B]	HIS	6.8
1	3-P	117[C]	HIS	6.8
1	3-P	236[C]	HIS	6.8
1	4-P	117[D]	HIS	6.8
1	4-P	236[D]	HIS	6.8
1	1-L	111[A]	GLU	6.8
1	1-O	264[A]	GLU	6.8
1	2-L	111[B]	GLU	6.8
1	2-O	264[B]	GLU	6.8
1	3-L	111[C]	GLU	6.8
1	3-O	264[C]	GLU	6.8
1	4-L	111[D]	GLU	6.8
1	4-O	264[D]	GLU	6.8
1	1-M	232[A]	ALA	6.8
1	1-N	25[A]	ASP	6.8
1	1-P	43[A]	THR	6.8
1	2-M	232[B]	ALA	6.8
1	2-N	25[B]	ASP	6.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-P	43[B]	THR	6.8
1	3-M	232[C]	ALA	6.8
1	3-N	25[C]	ASP	6.8
1	3-P	43[C]	THR	6.8
1	4-M	232[D]	ALA	6.8
1	4-N	25[D]	ASP	6.8
1	4-P	43[D]	THR	6.8
1	1-I	49[A]	PHE	6.8
1	2-I	49[B]	PHE	6.8
1	3-I	49[C]	PHE	6.8
1	4-I	49[D]	PHE	6.8
1	1-L	265[A]	PRO	6.8
1	1-M	304[A]	GLY	6.8
1	2-L	265[B]	PRO	6.8
1	2-M	304[B]	GLY	6.8
1	3-L	265[C]	PRO	6.8
1	3-M	304[C]	GLY	6.8
1	4-L	265[D]	PRO	6.8
1	4-M	304[D]	GLY	6.8
1	1-I	63[A]	LEU	6.8
1	1-J	81[A]	LEU	6.8
1	1-K	17[A]	ASP	6.8
1	2-I	63[B]	LEU	6.8
1	2-J	81[B]	LEU	6.8
1	2-K	17[B]	ASP	6.8
1	3-I	63[C]	LEU	6.8
1	3-J	81[C]	LEU	6.8
1	3-K	17[C]	ASP	6.8
1	4-I	63[D]	LEU	6.8
1	4-J	81[D]	LEU	6.8
1	4-K	17[D]	ASP	6.8
1	1-M	139[A]	THR	6.8
1	2-M	139[B]	THR	6.8
1	3-M	139[C]	THR	6.8
1	4-M	139[D]	THR	6.8
1	1-I	117[A]	HIS	6.8
1	1-M	249[A]	PHE	6.8
1	1-P	298[A]	GLU	6.8
1	2-I	117[B]	HIS	6.8
1	2-M	249[B]	PHE	6.8
1	2-P	298[B]	GLU	6.8
1	3-I	117[C]	HIS	6.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-M	249[C]	PHE	6.8
1	3-P	298[C]	GLU	6.8
1	4-I	117[D]	HIS	6.8
1	4-M	249[D]	PHE	6.8
1	4-P	298[D]	GLU	6.8
1	1-P	192[A]	GLN	6.8
1	2-P	192[B]	GLN	6.8
1	3-P	192[C]	GLN	6.8
1	4-P	192[D]	GLN	6.8
1	1-J	17[A]	ASP	6.8
1	1-K	151[A]	ASP	6.8
1	2-J	17[B]	ASP	6.8
1	2-K	151[B]	ASP	6.8
1	3-J	17[C]	ASP	6.8
1	3-K	151[C]	ASP	6.8
1	4-J	17[D]	ASP	6.8
1	4-K	151[D]	ASP	6.8
1	1-P	45[A]	THR	6.8
1	2-P	45[B]	THR	6.8
1	3-P	45[C]	THR	6.8
1	4-P	45[D]	THR	6.8
1	1-K	189[A]	MET	6.8
1	1-M	315[A]	MET	6.8
1	2-K	189[B]	MET	6.8
1	2-M	315[B]	MET	6.8
1	3-K	189[C]	MET	6.8
1	3-M	315[C]	MET	6.8
1	4-K	189[D]	MET	6.8
1	4-M	315[D]	MET	6.8
1	1-N	129[A]	PHE	6.8
1	2-N	129[B]	PHE	6.8
1	3-N	129[C]	PHE	6.8
1	4-N	129[D]	PHE	6.8
1	1-F	199[A]	PRO	6.8
1	1-K	225[A]	PRO	6.8
1	2-F	199[B]	PRO	6.8
1	2-K	225[B]	PRO	6.8
1	3-F	199[C]	PRO	6.8
1	3-K	225[C]	PRO	6.8
1	4-F	199[D]	PRO	6.8
1	4-K	225[D]	PRO	6.8
1	1-O	32[A]	ASN	6.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-O	32[B]	ASN	6.8
1	3-O	32[C]	ASN	6.8
1	4-O	32[D]	ASN	6.8
1	1-P	68[A]	THR	6.8
1	2-P	68[B]	THR	6.8
1	3-P	68[C]	THR	6.8
1	4-P	68[D]	THR	6.8
1	1-I	259[A]	TYR	6.8
1	1-M	21[A]	TYR	6.8
1	2-I	259[B]	TYR	6.8
1	2-M	21[B]	TYR	6.8
1	3-I	259[C]	TYR	6.8
1	3-M	21[C]	TYR	6.8
1	4-I	259[D]	TYR	6.8
1	4-M	21[D]	TYR	6.8
1	1-J	306[A]	LYS	6.8
1	1-P	274[A]	PRO	6.8
1	2-J	306[B]	LYS	6.8
1	2-P	274[B]	PRO	6.8
1	3-J	306[C]	LYS	6.8
1	3-P	274[C]	PRO	6.8
1	4-J	306[D]	LYS	6.8
1	4-P	274[D]	PRO	6.8
1	1-J	273[A]	GLU	6.8
1	1-M	273[A]	GLU	6.8
1	2-J	273[B]	GLU	6.8
1	2-M	273[B]	GLU	6.8
1	3-J	273[C]	GLU	6.8
1	3-M	273[C]	GLU	6.8
1	4-J	273[D]	GLU	6.8
1	4-M	273[D]	GLU	6.8
1	1-M	213[A]	MET	6.8
1	2-M	213[B]	MET	6.8
1	3-M	213[C]	MET	6.8
1	4-M	213[D]	MET	6.8
1	1-I	286[A]	LYS	6.8
1	2-I	286[B]	LYS	6.8
1	3-I	286[C]	LYS	6.8
1	4-I	286[D]	LYS	6.8
1	1-I	35[A]	GLU	6.8
1	1-M	163[A]	ASN	6.8
1	2-I	35[B]	GLU	6.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-M	163[B]	ASN	6.8
1	3-I	35[C]	GLU	6.8
1	3-M	163[C]	ASN	6.8
1	4-I	35[D]	GLU	6.8
1	4-M	163[D]	ASN	6.8
1	1-O	150[A]	VAL	6.8
1	1-P	167[A]	ARG	6.8
1	2-O	150[B]	VAL	6.8
1	2-P	167[B]	ARG	6.8
1	3-O	150[C]	VAL	6.8
1	3-P	167[C]	ARG	6.8
1	4-O	150[D]	VAL	6.8
1	4-P	167[D]	ARG	6.8
1	1-J	68[A]	THR	6.7
1	1-O	161[A]	LYS	6.7
1	2-J	68[B]	THR	6.7
1	2-O	161[B]	LYS	6.7
1	3-J	68[C]	THR	6.7
1	3-O	161[C]	LYS	6.7
1	4-J	68[D]	THR	6.7
1	4-O	161[D]	LYS	6.7
1	1-K	74[A]	ARG	6.7
1	1-N	275[A]	ARG	6.7
1	2-K	74[B]	ARG	6.7
1	2-N	275[B]	ARG	6.7
1	3-K	74[C]	ARG	6.7
1	3-N	275[C]	ARG	6.7
1	4-K	74[D]	ARG	6.7
1	4-N	275[D]	ARG	6.7
1	1-M	130[A]	GLN	6.7
1	2-M	130[B]	GLN	6.7
1	3-M	130[C]	GLN	6.7
1	4-M	130[D]	GLN	6.7
1	1-K	150[A]	VAL	6.7
1	1-O	295[A]	PHE	6.7
1	2-K	150[B]	VAL	6.7
1	2-O	295[B]	PHE	6.7
1	3-K	150[C]	VAL	6.7
1	3-O	295[C]	PHE	6.7
1	4-K	150[D]	VAL	6.7
1	4-O	295[D]	PHE	6.7
1	1-O	248[A]	GLU	6.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-O	248[B]	GLU	6.7
1	3-O	248[C]	GLU	6.7
1	4-O	248[D]	GLU	6.7
1	1-L	308[A]	TRP	6.7
1	2-L	308[B]	TRP	6.7
1	3-L	308[C]	TRP	6.7
1	4-L	308[D]	TRP	6.7
1	1-O	119[A]	ARG	6.7
1	2-O	119[B]	ARG	6.7
1	3-O	119[C]	ARG	6.7
1	4-O	119[D]	ARG	6.7
1	1-J	208[A]	LYS	6.7
1	1-L	146[A]	LYS	6.7
1	2-J	208[B]	LYS	6.7
1	2-L	146[B]	LYS	6.7
1	3-J	208[C]	LYS	6.7
1	3-L	146[C]	LYS	6.7
1	4-J	208[D]	LYS	6.7
1	4-L	146[D]	LYS	6.7
1	1-L	222[A]	LEU	6.7
1	1-N	26[A]	LEU	6.7
1	1-P	170[A]	ILE	6.7
1	2-L	222[B]	LEU	6.7
1	2-N	26[B]	LEU	6.7
1	2-P	170[B]	ILE	6.7
1	3-L	222[C]	LEU	6.7
1	3-N	26[C]	LEU	6.7
1	3-P	170[C]	ILE	6.7
1	4-L	222[D]	LEU	6.7
1	4-N	26[D]	LEU	6.7
1	4-P	170[D]	ILE	6.7
1	1-M	144[A]	ASP	6.7
1	2-M	144[B]	ASP	6.7
1	3-M	144[C]	ASP	6.7
1	4-M	144[D]	ASP	6.7
1	1-N	146[A]	LYS	6.7
1	2-N	146[B]	LYS	6.7
1	3-N	146[C]	LYS	6.7
1	4-N	146[D]	LYS	6.7
1	1-I	154[A]	GLN	6.7
1	2-I	154[B]	GLN	6.7
1	3-I	154[C]	GLN	6.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-I	154[D]	GLN	6.7
1	1-G	200[A]	ALA	6.7
1	1-K	243[A]	ASP	6.7
1	2-G	200[B]	ALA	6.7
1	2-K	243[B]	ASP	6.7
1	3-G	200[C]	ALA	6.7
1	3-K	243[C]	ASP	6.7
1	4-G	200[D]	ALA	6.7
1	4-K	243[D]	ASP	6.7
1	1-I	236[A]	HIS	6.7
1	1-I	257[A]	HIS	6.7
1	1-O	117[A]	HIS	6.7
1	2-I	236[B]	HIS	6.7
1	2-I	257[B]	HIS	6.7
1	2-O	117[B]	HIS	6.7
1	3-I	236[C]	HIS	6.7
1	3-I	257[C]	HIS	6.7
1	3-O	117[C]	HIS	6.7
1	4-I	236[D]	HIS	6.7
1	4-I	257[D]	HIS	6.7
1	4-O	117[D]	HIS	6.7
1	1-M	172[A]	SER	6.7
1	2-M	172[B]	SER	6.7
1	3-M	172[C]	SER	6.7
1	4-M	172[D]	SER	6.7
1	1-O	17[A]	ASP	6.7
1	2-O	17[B]	ASP	6.7
1	3-O	17[C]	ASP	6.7
1	4-O	17[D]	ASP	6.7
1	1-J	220[A]	LEU	6.7
1	2-J	220[B]	LEU	6.7
1	3-J	220[C]	LEU	6.7
1	4-J	220[D]	LEU	6.7
1	1-F	204[A]	GLY	6.7
1	1-J	278[A]	PRO	6.7
1	2-F	204[B]	GLY	6.7
1	2-J	278[B]	PRO	6.7
1	3-F	204[C]	GLY	6.7
1	3-J	278[C]	PRO	6.7
1	4-F	204[D]	GLY	6.7
1	4-J	278[D]	PRO	6.7
1	1-P	231[A]	TYR	6.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-P	231[B]	TYR	6.7
1	3-P	231[C]	TYR	6.7
1	4-P	231[D]	TYR	6.7
1	1-M	117[A]	HIS	6.6
1	2-M	117[B]	HIS	6.6
1	3-M	117[C]	HIS	6.6
1	4-M	117[D]	HIS	6.6
1	1-I	253[A]	MET	6.6
1	1-K	261[A]	ASP	6.6
1	1-L	57[A]	SER	6.6
1	1-P	135[A]	GLY	6.6
1	2-P	135[B]	GLY	6.6
1	2-I	253[B]	MET	6.6
1	2-K	261[B]	ASP	6.6
1	2-L	57[B]	SER	6.6
1	3-I	253[C]	MET	6.6
1	3-K	261[C]	ASP	6.6
1	3-L	57[C]	SER	6.6
1	3-P	135[C]	GLY	6.6
1	4-I	253[D]	MET	6.6
1	4-K	261[D]	ASP	6.6
1	4-L	57[D]	SER	6.6
1	4-P	135[D]	GLY	6.6
1	1-M	264[A]	GLU	6.6
1	2-M	264[B]	GLU	6.6
1	3-M	264[C]	GLU	6.6
1	4-M	264[D]	GLU	6.6
1	1-M	257[A]	HIS	6.6
1	2-M	257[B]	HIS	6.6
1	3-M	257[C]	HIS	6.6
1	4-M	257[D]	HIS	6.6
1	1-I	70[A]	ARG	6.6
1	1-L	95[A]	SER	6.6
1	1-L	99[A]	GLY	6.6
1	1-M	255[A]	ASP	6.6
1	2-I	70[B]	ARG	6.6
1	2-L	95[B]	SER	6.6
1	2-L	99[B]	GLY	6.6
1	2-M	255[B]	ASP	6.6
1	3-I	70[C]	ARG	6.6
1	3-L	95[C]	SER	6.6
1	3-L	99[C]	GLY	6.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-M	255[C]	ASP	6.6
1	4-I	70[D]	ARG	6.6
1	4-L	95[D]	SER	6.6
1	4-L	99[D]	GLY	6.6
1	4-M	255[D]	ASP	6.6
1	1-O	118[A]	ARG	6.6
1	2-O	118[B]	ARG	6.6
1	3-O	118[C]	ARG	6.6
1	4-O	118[D]	ARG	6.6
1	1-L	139[A]	THR	6.6
1	1-O	159[A]	THR	6.6
1	2-L	139[B]	THR	6.6
1	2-O	159[B]	THR	6.6
1	3-L	139[C]	THR	6.6
1	3-O	159[C]	THR	6.6
1	4-L	139[D]	THR	6.6
1	4-O	159[D]	THR	6.6
1	1-M	193[A]	PHE	6.6
1	2-M	193[B]	PHE	6.6
1	3-M	193[C]	PHE	6.6
1	4-M	193[D]	PHE	6.6
1	1-N	32[A]	ASN	6.6
1	2-N	32[B]	ASN	6.6
1	3-N	32[C]	ASN	6.6
1	4-N	32[D]	ASN	6.6
1	1-I	144[A]	ASP	6.6
1	2-I	144[B]	ASP	6.6
1	3-I	144[C]	ASP	6.6
1	4-I	144[D]	ASP	6.6
1	1-I	51[A]	PRO	6.6
1	1-O	290[A]	GLY	6.6
1	2-I	51[B]	PRO	6.6
1	2-O	290[B]	GLY	6.6
1	3-I	51[C]	PRO	6.6
1	3-O	290[C]	GLY	6.6
1	4-I	51[D]	PRO	6.6
1	4-O	290[D]	GLY	6.6
1	1-O	241[A]	ILE	6.6
1	2-O	241[B]	ILE	6.6
1	3-O	241[C]	ILE	6.6
1	4-O	241[D]	ILE	6.6
1	1-O	215[A]	GLN	6.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-O	215[B]	GLN	6.6
1	3-O	215[C]	GLN	6.6
1	4-O	215[D]	GLN	6.6
1	1-M	17[A]	ASP	6.6
1	2-M	17[B]	ASP	6.6
1	3-M	17[C]	ASP	6.6
1	4-M	17[D]	ASP	6.6
1	1-K	76[A]	VAL	6.6
1	2-K	76[B]	VAL	6.6
1	3-K	76[C]	VAL	6.6
1	4-K	76[D]	VAL	6.6
1	1-K	288[A]	GLU	6.6
1	1-O	64[A]	PRO	6.6
1	2-K	288[B]	GLU	6.6
1	2-O	64[B]	PRO	6.6
1	3-K	288[C]	GLU	6.6
1	3-O	64[C]	PRO	6.6
1	4-K	288[D]	GLU	6.6
1	4-O	64[D]	PRO	6.6
1	1-L	73[A]	LEU	6.6
1	1-M	233[A]	LEU	6.6
1	2-L	73[B]	LEU	6.6
1	2-M	233[B]	LEU	6.6
1	3-L	73[C]	LEU	6.6
1	3-M	233[C]	LEU	6.6
1	4-L	73[D]	LEU	6.6
1	4-M	233[D]	LEU	6.6
1	1-L	102[A]	ASP	6.6
1	2-L	102[B]	ASP	6.6
1	3-L	102[C]	ASP	6.6
1	4-L	102[D]	ASP	6.6
1	1-I	56[A]	PHE	6.6
1	1-N	295[A]	PHE	6.6
1	2-I	56[B]	PHE	6.6
1	2-N	295[B]	PHE	6.6
1	3-I	56[C]	PHE	6.6
1	3-N	295[C]	PHE	6.6
1	4-I	56[D]	PHE	6.6
1	4-N	295[D]	PHE	6.6
1	1-K	304[A]	GLY	6.6
1	2-K	304[B]	GLY	6.6
1	3-K	304[C]	GLY	6.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-K	304[D]	GLY	6.6
1	1-O	286[A]	LYS	6.6
1	2-O	286[B]	LYS	6.6
1	3-O	286[C]	LYS	6.6
1	4-O	286[D]	LYS	6.6
1	1-K	220[A]	LEU	6.6
1	2-K	220[B]	LEU	6.6
1	3-K	220[C]	LEU	6.6
1	4-K	220[D]	LEU	6.6
1	1-M	261[A]	ASP	6.6
1	2-M	261[B]	ASP	6.6
1	3-M	261[C]	ASP	6.6
1	4-M	261[D]	ASP	6.6
1	1-N	44[A]	GLY	6.6
1	2-N	44[B]	GLY	6.6
1	3-N	44[C]	GLY	6.6
1	4-N	44[D]	GLY	6.6
1	1-P	56[A]	PHE	6.6
1	2-P	56[B]	PHE	6.6
1	3-P	56[C]	PHE	6.6
1	4-P	56[D]	PHE	6.6
1	1-I	313[A]	MET	6.6
1	2-I	313[B]	MET	6.6
1	3-I	313[C]	MET	6.6
1	4-I	313[D]	MET	6.6
1	1-K	68[A]	THR	6.5
1	2-K	68[B]	THR	6.5
1	3-K	68[C]	THR	6.5
1	4-K	68[D]	THR	6.5
1	1-K	148[A]	LYS	6.5
1	1-K	161[A]	LYS	6.5
1	1-M	208[A]	LYS	6.5
1	2-K	148[B]	LYS	6.5
1	2-K	161[B]	LYS	6.5
1	2-M	208[B]	LYS	6.5
1	3-K	148[C]	LYS	6.5
1	3-K	161[C]	LYS	6.5
1	3-M	208[C]	LYS	6.5
1	4-K	148[D]	LYS	6.5
1	4-K	161[D]	LYS	6.5
1	4-M	208[D]	LYS	6.5
1	1-I	37[A]	ARG	6.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-P	317[A]	ALA	6.5
1	2-I	37[B]	ARG	6.5
1	2-P	317[B]	ALA	6.5
1	3-I	37[C]	ARG	6.5
1	3-P	317[C]	ALA	6.5
1	4-I	37[D]	ARG	6.5
1	4-P	317[D]	ALA	6.5
1	1-L	235[A]	THR	6.5
1	1-L	270[A]	LEU	6.5
1	2-L	235[B]	THR	6.5
1	2-L	270[B]	LEU	6.5
1	3-L	235[C]	THR	6.5
1	3-L	270[C]	LEU	6.5
1	4-L	235[D]	THR	6.5
1	4-L	270[D]	LEU	6.5
1	1-P	83[A]	PHE	6.5
1	2-P	83[B]	PHE	6.5
1	3-P	83[C]	PHE	6.5
1	4-P	83[D]	PHE	6.5
1	1-K	259[A]	TYR	6.5
1	1-K	310[A]	LYS	6.5
1	2-K	259[B]	TYR	6.5
1	2-K	310[B]	LYS	6.5
1	3-K	259[C]	TYR	6.5
1	3-K	310[C]	LYS	6.5
1	4-K	259[D]	TYR	6.5
1	4-K	310[D]	LYS	6.5
1	1-I	99[A]	GLY	6.5
1	2-I	99[B]	GLY	6.5
1	3-I	99[C]	GLY	6.5
1	4-I	99[D]	GLY	6.5
1	1-I	153[A]	LEU	6.5
1	2-I	153[B]	LEU	6.5
1	3-I	153[C]	LEU	6.5
1	4-I	153[D]	LEU	6.5
1	1-I	54[A]	PHE	6.5
1	1-I	177[A]	LYS	6.5
1	1-P	314[A]	LYS	6.5
1	2-I	54[B]	PHE	6.5
1	2-I	177[B]	LYS	6.5
1	2-P	314[B]	LYS	6.5
1	3-I	54[C]	PHE	6.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-I	177[C]	LYS	6.5
1	3-P	314[C]	LYS	6.5
1	4-I	54[D]	PHE	6.5
1	4-I	177[D]	LYS	6.5
1	4-P	314[D]	LYS	6.5
1	1-M	40[A]	ARG	6.5
1	1-P	126[A]	VAL	6.5
1	2-M	40[B]	ARG	6.5
1	2-P	126[B]	VAL	6.5
1	3-M	40[C]	ARG	6.5
1	3-P	126[C]	VAL	6.5
1	4-M	40[D]	ARG	6.5
1	4-P	126[D]	VAL	6.5
1	1-K	233[A]	LEU	6.5
1	2-K	233[B]	LEU	6.5
1	3-K	233[C]	LEU	6.5
1	4-K	233[D]	LEU	6.5
1	1-I	208[A]	LYS	6.5
1	2-I	208[B]	LYS	6.5
1	3-I	208[C]	LYS	6.5
1	4-I	208[D]	LYS	6.5
1	1-K	46[A]	VAL	6.5
1	1-M	231[A]	TYR	6.5
1	1-P	71[A]	VAL	6.5
1	2-K	46[B]	VAL	6.5
1	2-M	231[B]	TYR	6.5
1	2-P	71[B]	VAL	6.5
1	3-K	46[C]	VAL	6.5
1	3-M	231[C]	TYR	6.5
1	3-P	71[C]	VAL	6.5
1	4-K	46[D]	VAL	6.5
1	4-M	231[D]	TYR	6.5
1	4-P	71[D]	VAL	6.5
1	1-P	182[A]	MET	6.5
1	2-P	182[B]	MET	6.5
1	3-P	182[C]	MET	6.5
1	4-P	182[D]	MET	6.5
1	1-K	82[A]	TRP	6.5
1	2-K	82[B]	TRP	6.5
1	3-K	82[C]	TRP	6.5
1	4-K	82[D]	TRP	6.5
1	1-K	149[A]	GLY	6.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-K	149[B]	GLY	6.5
1	3-K	149[C]	GLY	6.5
1	4-K	149[D]	GLY	6.5
1	1-J	91[A]	LYS	6.5
1	1-J	279[A]	LYS	6.5
1	2-J	91[B]	LYS	6.5
1	2-J	279[B]	LYS	6.5
1	3-J	91[C]	LYS	6.5
1	3-J	279[C]	LYS	6.5
1	4-J	91[D]	LYS	6.5
1	4-J	279[D]	LYS	6.5
1	1-N	156[A]	VAL	6.5
1	2-N	156[B]	VAL	6.5
1	3-N	156[C]	VAL	6.5
1	4-N	156[D]	VAL	6.5
1	1-I	272[A]	ARG	6.5
1	1-O	220[A]	LEU	6.5
1	2-I	272[B]	ARG	6.5
1	2-O	220[B]	LEU	6.5
1	3-I	272[C]	ARG	6.5
1	3-O	220[C]	LEU	6.5
1	4-I	272[D]	ARG	6.5
1	4-O	220[D]	LEU	6.5
1	1-M	39[A]	ASP	6.5
1	2-M	39[B]	ASP	6.5
1	3-M	39[C]	ASP	6.5
1	4-M	39[D]	ASP	6.5
1	1-J	254[A]	GLY	6.5
1	1-M	246[A]	PRO	6.5
1	2-J	254[B]	GLY	6.5
1	2-M	246[B]	PRO	6.5
1	3-J	254[C]	GLY	6.5
1	3-M	246[C]	PRO	6.5
1	4-J	254[D]	GLY	6.5
1	4-M	246[D]	PRO	6.5
1	1-M	224[A]	VAL	6.4
1	2-M	224[B]	VAL	6.4
1	3-M	224[C]	VAL	6.4
1	4-M	224[D]	VAL	6.4
1	1-O	105[A]	GLY	6.4
1	2-O	105[B]	GLY	6.4
1	3-O	105[C]	GLY	6.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-O	105[D]	GLY	6.4
1	1-J	232[A]	ALA	6.4
1	1-M	283[A]	ALA	6.4
1	2-J	232[B]	ALA	6.4
1	2-M	283[B]	ALA	6.4
1	3-J	232[C]	ALA	6.4
1	3-M	283[C]	ALA	6.4
1	4-J	232[D]	ALA	6.4
1	4-M	283[D]	ALA	6.4
1	1-N	308[A]	TRP	6.4
1	2-N	308[B]	TRP	6.4
1	3-N	308[C]	TRP	6.4
1	4-N	308[D]	TRP	6.4
1	1-J	163[A]	ASN	6.4
1	1-N	257[A]	HIS	6.4
1	2-J	163[B]	ASN	6.4
1	2-N	257[B]	HIS	6.4
1	3-J	163[C]	ASN	6.4
1	3-N	257[C]	HIS	6.4
1	4-J	163[D]	ASN	6.4
1	4-N	257[D]	HIS	6.4
1	1-K	306[A]	LYS	6.4
1	2-K	306[B]	LYS	6.4
1	3-K	306[C]	LYS	6.4
1	4-K	306[D]	LYS	6.4
1	1-K	299[A]	ASP	6.4
1	2-K	299[B]	ASP	6.4
1	3-K	299[C]	ASP	6.4
1	4-K	299[D]	ASP	6.4
1	1-L	170[A]	ILE	6.4
1	2-L	170[B]	ILE	6.4
1	3-L	170[C]	ILE	6.4
1	4-L	170[D]	ILE	6.4
1	1-J	71[A]	VAL	6.4
1	2-J	71[B]	VAL	6.4
1	3-J	71[C]	VAL	6.4
1	4-J	71[D]	VAL	6.4
1	1-I	222[A]	LEU	6.4
1	1-L	130[A]	GLN	6.4
1	1-P	233[A]	LEU	6.4
1	2-I	222[B]	LEU	6.4
1	2-L	130[B]	GLN	6.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-P	233[B]	LEU	6.4
1	3-I	222[C]	LEU	6.4
1	3-L	130[C]	GLN	6.4
1	3-P	233[C]	LEU	6.4
1	4-I	222[D]	LEU	6.4
1	4-L	130[D]	GLN	6.4
1	4-P	233[D]	LEU	6.4
1	1-M	256[A]	ALA	6.4
1	2-M	256[B]	ALA	6.4
1	3-M	256[C]	ALA	6.4
1	4-M	256[D]	ALA	6.4
1	1-M	68[A]	THR	6.4
1	1-P	235[A]	THR	6.4
1	2-M	68[B]	THR	6.4
1	2-P	235[B]	THR	6.4
1	3-M	68[C]	THR	6.4
1	3-P	235[C]	THR	6.4
1	4-M	68[D]	THR	6.4
1	4-P	235[D]	THR	6.4
1	1-K	250[A]	ILE	6.4
1	1-O	169[A]	ILE	6.4
1	2-K	250[B]	ILE	6.4
1	2-O	169[B]	ILE	6.4
1	3-K	250[C]	ILE	6.4
1	3-O	169[C]	ILE	6.4
1	4-K	250[D]	ILE	6.4
1	4-O	169[D]	ILE	6.4
1	1-J	128[A]	GLY	6.4
1	2-J	128[B]	GLY	6.4
1	3-J	128[C]	GLY	6.4
1	4-J	128[D]	GLY	6.4
1	1-L	91[A]	LYS	6.4
1	2-L	91[B]	LYS	6.4
1	3-L	91[C]	LYS	6.4
1	4-L	91[D]	LYS	6.4
1	1-K	195[A]	VAL	6.4
1	2-K	195[B]	VAL	6.4
1	3-K	195[C]	VAL	6.4
1	4-K	195[D]	VAL	6.4
1	1-L	179[A]	LEU	6.4
1	1-M	140[A]	ASP	6.4
1	1-N	247[A]	HIS	6.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-P	299[A]	ASP	6.4
1	2-L	179[B]	LEU	6.4
1	2-M	140[B]	ASP	6.4
1	2-N	247[B]	HIS	6.4
1	2-P	299[B]	ASP	6.4
1	3-L	179[C]	LEU	6.4
1	3-M	140[C]	ASP	6.4
1	3-N	247[C]	HIS	6.4
1	3-P	299[C]	ASP	6.4
1	4-L	179[D]	LEU	6.4
1	4-M	140[D]	ASP	6.4
1	4-N	247[D]	HIS	6.4
1	4-P	299[D]	ASP	6.4
1	1-K	72[A]	PHE	6.4
1	1-M	134[A]	PHE	6.4
1	2-K	72[B]	PHE	6.4
1	2-M	134[B]	PHE	6.4
1	3-K	72[C]	PHE	6.4
1	3-M	134[C]	PHE	6.4
1	4-K	72[D]	PHE	6.4
1	4-M	134[D]	PHE	6.4
1	1-K	311[A]	ILE	6.4
1	2-K	311[B]	ILE	6.4
1	3-K	311[C]	ILE	6.4
1	4-K	311[D]	ILE	6.4
1	1-M	120[A]	GLU	6.4
1	1-N	288[A]	GLU	6.4
1	2-M	120[B]	GLU	6.4
1	2-N	288[B]	GLU	6.4
1	3-M	120[C]	GLU	6.4
1	3-N	288[C]	GLU	6.4
1	4-M	120[D]	GLU	6.4
1	4-N	288[D]	GLU	6.4
1	1-L	302[A]	VAL	6.4
1	1-O	133[A]	HIS	6.4
1	2-L	302[B]	VAL	6.4
1	2-O	133[B]	HIS	6.4
1	3-L	302[C]	VAL	6.4
1	3-O	133[C]	HIS	6.4
1	4-L	302[D]	VAL	6.4
1	4-O	133[D]	HIS	6.4
1	1-C	14[A]	SER	6.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-C	14[B]	SER	6.4
1	3-C	14[C]	SER	6.4
1	4-C	14[D]	SER	6.4
1	1-K	252[A]	GLN	6.4
1	2-K	252[B]	GLN	6.4
1	3-K	252[C]	GLN	6.4
1	4-K	252[D]	GLN	6.4
1	1-N	56[A]	PHE	6.4
1	1-N	300[A]	PHE	6.4
1	2-N	56[B]	PHE	6.4
1	2-N	300[B]	PHE	6.4
1	3-N	56[C]	PHE	6.4
1	3-N	300[C]	PHE	6.4
1	4-N	56[D]	PHE	6.4
1	4-N	300[D]	PHE	6.4
1	1-N	166[A]	ASP	6.4
1	2-N	166[B]	ASP	6.4
1	3-N	166[C]	ASP	6.4
1	4-N	166[D]	ASP	6.4
1	1-I	196[A]	SER	6.3
1	1-I	155[A]	ARG	6.3
1	1-O	76[A]	VAL	6.3
1	1-O	206[A]	LYS	6.3
1	1-O	296[A]	LYS	6.3
1	2-I	196[B]	SER	6.3
1	2-I	155[B]	ARG	6.3
1	2-O	76[B]	VAL	6.3
1	2-O	206[B]	LYS	6.3
1	2-O	296[B]	LYS	6.3
1	3-I	196[C]	SER	6.3
1	3-O	76[C]	VAL	6.3
1	3-O	206[C]	LYS	6.3
1	3-O	296[C]	LYS	6.3
1	4-I	196[D]	SER	6.3
1	4-O	76[D]	VAL	6.3
1	4-O	206[D]	LYS	6.3
1	4-O	296[D]	LYS	6.3
1	3-I	155[C]	ARG	6.3
1	4-I	155[D]	ARG	6.3
1	1-L	35[A]	GLU	6.3
1	2-L	35[B]	GLU	6.3
1	3-L	35[C]	GLU	6.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-L	35[D]	GLU	6.3
1	1-N	183[A]	ALA	6.3
1	2-N	183[B]	ALA	6.3
1	3-N	183[C]	ALA	6.3
1	4-N	183[D]	ALA	6.3
1	1-M	155[A]	ARG	6.3
1	1-N	119[A]	ARG	6.3
1	2-M	155[B]	ARG	6.3
1	2-N	119[B]	ARG	6.3
1	3-M	155[C]	ARG	6.3
1	3-N	119[C]	ARG	6.3
1	4-M	155[D]	ARG	6.3
1	4-N	119[D]	ARG	6.3
1	1-I	248[A]	GLU	6.3
1	2-I	248[B]	GLU	6.3
1	3-I	248[C]	GLU	6.3
1	4-I	248[D]	GLU	6.3
1	1-P	133[A]	HIS	6.3
1	2-P	133[B]	HIS	6.3
1	3-P	133[C]	HIS	6.3
1	4-P	133[D]	HIS	6.3
1	1-L	37[A]	ARG	6.3
1	2-L	37[B]	ARG	6.3
1	3-L	37[C]	ARG	6.3
1	4-L	37[D]	ARG	6.3
1	1-P	289[A]	ILE	6.3
1	2-P	289[B]	ILE	6.3
1	3-P	289[C]	ILE	6.3
1	4-P	289[D]	ILE	6.3
1	1-I	261[A]	ASP	6.3
1	2-I	261[B]	ASP	6.3
1	3-I	261[C]	ASP	6.3
1	4-I	261[D]	ASP	6.3
1	1-J	173[A]	ALA	6.3
1	1-P	313[A]	MET	6.3
1	2-J	173[B]	ALA	6.3
1	2-P	313[B]	MET	6.3
1	3-J	173[C]	ALA	6.3
1	3-P	313[C]	MET	6.3
1	4-J	173[D]	ALA	6.3
1	4-P	313[D]	MET	6.3
1	1-J	295[A]	PHE	6.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-J	295[B]	PHE	6.3
1	3-J	295[C]	PHE	6.3
1	4-J	295[D]	PHE	6.3
1	1-K	107[A]	LYS	6.3
1	2-K	107[B]	LYS	6.3
1	3-K	107[C]	LYS	6.3
1	4-K	107[D]	LYS	6.3
1	1-I	294[A]	GLY	6.3
1	2-I	294[B]	GLY	6.3
1	3-I	294[C]	GLY	6.3
1	4-I	294[D]	GLY	6.3
1	1-K	181[A]	LEU	6.3
1	1-K	182[A]	MET	6.3
1	2-K	181[B]	LEU	6.3
1	2-K	182[B]	MET	6.3
1	3-K	181[C]	LEU	6.3
1	3-K	182[C]	MET	6.3
1	4-K	181[D]	LEU	6.3
1	4-K	182[D]	MET	6.3
1	1-M	235[A]	THR	6.3
1	1-N	41[A]	THR	6.3
1	2-M	235[B]	THR	6.3
1	2-N	41[B]	THR	6.3
1	3-M	235[C]	THR	6.3
1	3-N	41[C]	THR	6.3
1	4-M	235[D]	THR	6.3
1	4-N	41[D]	THR	6.3
1	1-L	39[A]	ASP	6.3
1	2-L	39[B]	ASP	6.3
1	3-L	39[C]	ASP	6.3
1	4-L	39[D]	ASP	6.3
1	1-M	157[A]	ILE	6.3
1	2-M	157[B]	ILE	6.3
1	3-M	157[C]	ILE	6.3
1	4-M	157[D]	ILE	6.3
1	1-O	279[A]	LYS	6.3
1	2-O	279[B]	LYS	6.3
1	3-O	279[C]	LYS	6.3
1	4-O	279[D]	LYS	6.3
1	1-P	44[A]	GLY	6.3
1	2-P	44[B]	GLY	6.3
1	3-P	44[C]	GLY	6.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-P	44[D]	GLY	6.3
1	1-I	241[A]	ILE	6.3
1	1-O	27[A]	ILE	6.3
1	1-O	292[A]	ILE	6.3
1	2-I	241[B]	ILE	6.3
1	2-O	27[B]	ILE	6.3
1	2-O	292[B]	ILE	6.3
1	3-I	241[C]	ILE	6.3
1	3-O	27[C]	ILE	6.3
1	3-O	292[C]	ILE	6.3
1	4-I	241[D]	ILE	6.3
1	4-O	27[D]	ILE	6.3
1	4-O	292[D]	ILE	6.3
1	1-L	239[A]	ALA	6.3
1	2-L	239[B]	ALA	6.3
1	3-L	239[C]	ALA	6.3
1	4-L	239[D]	ALA	6.3
1	1-P	57[A]	SER	6.2
1	2-P	57[B]	SER	6.2
1	3-P	57[C]	SER	6.2
1	4-P	57[D]	SER	6.2
1	1-I	176[A]	PRO	6.2
1	2-I	176[B]	PRO	6.2
1	3-I	176[C]	PRO	6.2
1	4-I	176[D]	PRO	6.2
1	1-I	175[A]	ASN	6.2
1	1-P	215[A]	GLN	6.2
1	2-I	175[B]	ASN	6.2
1	2-P	215[B]	GLN	6.2
1	3-I	175[C]	ASN	6.2
1	3-P	215[C]	GLN	6.2
1	4-I	175[D]	ASN	6.2
1	4-P	215[D]	GLN	6.2
1	1-L	67[A]	THR	6.2
1	1-O	45[A]	THR	6.2
1	2-L	67[B]	THR	6.2
1	2-O	45[B]	THR	6.2
1	3-L	67[C]	THR	6.2
1	3-O	45[C]	THR	6.2
1	4-L	67[D]	THR	6.2
1	4-O	45[D]	THR	6.2
1	1-K	172[A]	SER	6.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-K	172[B]	SER	6.2
1	3-K	172[C]	SER	6.2
1	4-K	172[D]	SER	6.2
1	1-M	107[A]	LYS	6.2
1	1-P	125[A]	PRO	6.2
1	2-M	107[B]	LYS	6.2
1	2-P	125[B]	PRO	6.2
1	3-M	107[C]	LYS	6.2
1	3-P	125[C]	PRO	6.2
1	4-M	107[D]	LYS	6.2
1	4-P	125[D]	PRO	6.2
1	1-K	158[A]	ASP	6.2
1	2-K	158[B]	ASP	6.2
1	3-K	158[C]	ASP	6.2
1	4-K	158[D]	ASP	6.2
1	1-O	30[A]	ILE	6.2
1	1-P	196[A]	SER	6.2
1	2-O	30[B]	ILE	6.2
1	2-P	196[B]	SER	6.2
1	3-O	30[C]	ILE	6.2
1	3-P	196[C]	SER	6.2
1	4-O	30[D]	ILE	6.2
1	4-P	196[D]	SER	6.2
1	1-N	317[A]	ALA	6.2
1	1-O	306[A]	LYS	6.2
1	2-N	317[B]	ALA	6.2
1	2-O	306[B]	LYS	6.2
1	3-N	317[C]	ALA	6.2
1	3-O	306[C]	LYS	6.2
1	4-N	317[D]	ALA	6.2
1	4-O	306[D]	LYS	6.2
1	1-J	255[A]	ASP	6.2
1	2-J	255[B]	ASP	6.2
1	3-J	255[C]	ASP	6.2
1	4-J	255[D]	ASP	6.2
1	1-J	134[A]	PHE	6.2
1	1-K	211[A]	CYS	6.2
1	2-J	134[B]	PHE	6.2
1	2-K	211[B]	CYS	6.2
1	3-J	134[C]	PHE	6.2
1	3-K	211[C]	CYS	6.2
1	4-J	134[D]	PHE	6.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-K	211[D]	CYS	6.2
1	1-J	75[A]	GLY	6.2
1	1-I	265[A]	PRO	6.2
1	1-K	64[A]	PRO	6.2
1	1-L	137[A]	GLU	6.2
1	1-M	59[A]	ALA	6.2
1	1-P	288[A]	GLU	6.2
1	2-J	75[B]	GLY	6.2
1	2-I	265[B]	PRO	6.2
1	2-K	64[B]	PRO	6.2
1	2-L	137[B]	GLU	6.2
1	2-M	59[B]	ALA	6.2
1	2-P	288[B]	GLU	6.2
1	3-J	75[C]	GLY	6.2
1	3-I	265[C]	PRO	6.2
1	3-K	64[C]	PRO	6.2
1	3-L	137[C]	GLU	6.2
1	3-M	59[C]	ALA	6.2
1	3-P	288[C]	GLU	6.2
1	4-J	75[D]	GLY	6.2
1	4-I	265[D]	PRO	6.2
1	4-K	64[D]	PRO	6.2
1	4-L	137[D]	GLU	6.2
1	4-M	59[D]	ALA	6.2
1	4-P	288[D]	GLU	6.2
1	1-K	81[A]	LEU	6.2
1	2-K	81[B]	LEU	6.2
1	3-K	81[C]	LEU	6.2
1	4-K	81[D]	LEU	6.2
1	1-J	33[A]	VAL	6.2
1	2-J	33[B]	VAL	6.2
1	3-J	33[C]	VAL	6.2
1	4-J	33[D]	VAL	6.2
1	1-P	191[A]	CYS	6.2
1	2-P	191[B]	CYS	6.2
1	3-P	191[C]	CYS	6.2
1	4-P	191[D]	CYS	6.2
1	1-M	99[A]	GLY	6.2
1	1-O	116[A]	GLY	6.2
1	2-M	99[B]	GLY	6.2
1	2-O	116[B]	GLY	6.2
1	3-M	99[C]	GLY	6.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-O	116[C]	GLY	6.2
1	4-M	99[D]	GLY	6.2
1	4-O	116[D]	GLY	6.2
1	1-M	64[A]	PRO	6.2
1	1-N	186[A]	PRO	6.2
1	2-M	64[B]	PRO	6.2
1	2-N	186[B]	PRO	6.2
1	3-M	64[C]	PRO	6.2
1	3-N	186[C]	PRO	6.2
1	4-M	64[D]	PRO	6.2
1	4-N	186[D]	PRO	6.2
1	1-M	58[A]	LEU	6.2
1	1-N	93[A]	LEU	6.2
1	1-N	179[A]	LEU	6.2
1	2-M	58[B]	LEU	6.2
1	2-N	93[B]	LEU	6.2
1	2-N	179[B]	LEU	6.2
1	3-M	58[C]	LEU	6.2
1	3-N	93[C]	LEU	6.2
1	3-N	179[C]	LEU	6.2
1	4-M	58[D]	LEU	6.2
1	4-N	93[D]	LEU	6.2
1	4-N	179[D]	LEU	6.2
1	1-I	129[A]	PHE	6.2
1	2-I	129[B]	PHE	6.2
1	3-I	129[C]	PHE	6.2
1	4-I	129[D]	PHE	6.2
1	1-O	101[A]	TRP	6.2
1	2-O	101[B]	TRP	6.2
1	3-O	101[C]	TRP	6.2
1	4-O	101[D]	TRP	6.2
1	1-I	299[A]	ASP	6.2
1	1-J	55[A]	ARG	6.2
1	1-J	260[A]	ARG	6.2
1	2-I	299[B]	ASP	6.2
1	2-J	55[B]	ARG	6.2
1	2-J	260[B]	ARG	6.2
1	3-I	299[C]	ASP	6.2
1	3-J	55[C]	ARG	6.2
1	3-J	260[C]	ARG	6.2
1	4-I	299[D]	ASP	6.2
1	4-J	55[D]	ARG	6.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-J	260[D]	ARG	6.2
1	1-L	78[A]	ALA	6.2
1	2-L	78[B]	ALA	6.2
1	3-L	78[C]	ALA	6.2
1	4-L	78[D]	ALA	6.2
1	1-J	111[A]	GLU	6.2
1	2-J	111[B]	GLU	6.2
1	3-J	111[C]	GLU	6.2
1	4-J	111[D]	GLU	6.2
1	1-L	80[A]	LEU	6.2
1	1-P	280[A]	LEU	6.2
1	2-L	80[B]	LEU	6.2
1	2-P	280[B]	LEU	6.2
1	3-L	80[C]	LEU	6.2
1	3-P	280[C]	LEU	6.2
1	4-L	80[D]	LEU	6.2
1	4-P	280[D]	LEU	6.2
1	1-K	278[A]	PRO	6.1
1	1-O	70[A]	ARG	6.1
1	1-P	221[A]	GLY	6.1
1	2-K	278[B]	PRO	6.1
1	2-O	70[B]	ARG	6.1
1	2-P	221[B]	GLY	6.1
1	3-O	70[C]	ARG	6.1
1	3-P	221[C]	GLY	6.1
1	4-O	70[D]	ARG	6.1
1	4-P	221[D]	GLY	6.1
1	1-P	51[A]	PRO	6.1
1	2-P	51[B]	PRO	6.1
1	3-K	278[C]	PRO	6.1
1	3-P	51[C]	PRO	6.1
1	4-K	278[D]	PRO	6.1
1	4-P	51[D]	PRO	6.1
1	1-N	282[A]	TRP	6.1
1	2-N	282[B]	TRP	6.1
1	3-N	282[C]	TRP	6.1
1	4-N	282[D]	TRP	6.1
1	1-N	232[A]	ALA	6.1
1	2-N	232[B]	ALA	6.1
1	3-N	232[C]	ALA	6.1
1	4-N	232[D]	ALA	6.1
1	1-M	251[A]	LEU	6.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-M	251[B]	LEU	6.1
1	3-M	251[C]	LEU	6.1
1	4-M	251[D]	LEU	6.1
1	1-P	119[A]	ARG	6.1
1	1-P	272[A]	ARG	6.1
1	2-P	119[B]	ARG	6.1
1	2-P	272[B]	ARG	6.1
1	3-P	119[C]	ARG	6.1
1	3-P	272[C]	ARG	6.1
1	4-P	119[D]	ARG	6.1
1	4-P	272[D]	ARG	6.1
1	1-K	95[A]	SER	6.1
1	1-M	116[A]	GLY	6.1
1	1-N	227[A]	ASN	6.1
1	2-K	95[B]	SER	6.1
1	2-M	116[B]	GLY	6.1
1	2-N	227[B]	ASN	6.1
1	3-K	95[C]	SER	6.1
1	3-M	116[C]	GLY	6.1
1	3-N	227[C]	ASN	6.1
1	4-K	95[D]	SER	6.1
1	4-M	116[D]	GLY	6.1
1	4-N	227[D]	ASN	6.1
1	1-P	112[A]	LYS	6.1
1	2-P	112[B]	LYS	6.1
1	3-P	112[C]	LYS	6.1
1	4-P	112[D]	LYS	6.1
1	1-P	197[A]	LEU	6.1
1	2-P	197[B]	LEU	6.1
1	3-P	197[C]	LEU	6.1
1	4-P	197[D]	LEU	6.1
1	1-I	226[A]	PHE	6.1
1	1-P	159[A]	THR	6.1
1	2-I	226[B]	PHE	6.1
1	2-P	159[B]	THR	6.1
1	3-I	226[C]	PHE	6.1
1	3-P	159[C]	THR	6.1
1	4-I	226[D]	PHE	6.1
1	4-P	159[D]	THR	6.1
1	1-N	137[A]	GLU	6.1
1	1-P	213[A]	MET	6.1
1	2-N	137[B]	GLU	6.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-P	213[B]	MET	6.1
1	3-N	137[C]	GLU	6.1
1	3-P	213[C]	MET	6.1
1	4-N	137[D]	GLU	6.1
1	4-P	213[D]	MET	6.1
1	1-J	36[A]	VAL	6.1
1	1-M	306[A]	LYS	6.1
1	1-N	301[A]	VAL	6.1
1	1-O	36[A]	VAL	6.1
1	2-J	36[B]	VAL	6.1
1	2-M	306[B]	LYS	6.1
1	2-N	301[B]	VAL	6.1
1	2-O	36[B]	VAL	6.1
1	3-J	36[C]	VAL	6.1
1	3-M	306[C]	LYS	6.1
1	3-N	301[C]	VAL	6.1
1	3-O	36[C]	VAL	6.1
1	4-J	36[D]	VAL	6.1
1	4-M	306[D]	LYS	6.1
1	4-N	301[D]	VAL	6.1
1	4-O	36[D]	VAL	6.1
1	1-I	180[A]	PRO	6.1
1	1-N	174[A]	TRP	6.1
1	2-I	180[B]	PRO	6.1
1	2-N	174[B]	TRP	6.1
1	3-I	180[C]	PRO	6.1
1	3-N	174[C]	TRP	6.1
1	4-I	180[D]	PRO	6.1
1	4-N	174[D]	TRP	6.1
1	1-J	113[A]	VAL	6.1
1	1-J	165[A]	THR	6.1
1	1-M	297[A]	VAL	6.1
1	2-J	113[B]	VAL	6.1
1	2-J	165[B]	THR	6.1
1	2-M	297[B]	VAL	6.1
1	3-J	113[C]	VAL	6.1
1	3-J	165[C]	THR	6.1
1	3-M	297[C]	VAL	6.1
1	4-J	113[D]	VAL	6.1
1	4-J	165[D]	THR	6.1
1	4-M	297[D]	VAL	6.1
1	1-M	147[A]	GLY	6.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-P	42[A]	GLY	6.1
1	2-M	147[B]	GLY	6.1
1	2-P	42[B]	GLY	6.1
1	3-M	147[C]	GLY	6.1
1	3-P	42[C]	GLY	6.1
1	4-M	147[D]	GLY	6.1
1	4-P	42[D]	GLY	6.1
1	1-J	94[A]	SER	6.1
1	1-P	225[A]	PRO	6.1
1	2-J	94[B]	SER	6.1
1	2-P	225[B]	PRO	6.1
1	3-J	94[C]	SER	6.1
1	3-P	225[C]	PRO	6.1
1	4-J	94[D]	SER	6.1
1	4-P	225[D]	PRO	6.1
1	1-N	19[A]	GLU	6.1
1	2-N	19[B]	GLU	6.1
1	3-N	19[C]	GLU	6.1
1	4-N	19[D]	GLU	6.1
1	1-I	140[A]	ASP	6.1
1	1-J	234[A]	LEU	6.1
1	1-N	140[A]	ASP	6.1
1	2-I	140[B]	ASP	6.1
1	2-J	234[B]	LEU	6.1
1	2-N	140[B]	ASP	6.1
1	3-I	140[C]	ASP	6.1
1	3-J	234[C]	LEU	6.1
1	3-N	140[C]	ASP	6.1
1	4-I	140[D]	ASP	6.1
1	4-J	234[D]	LEU	6.1
1	4-N	140[D]	ASP	6.1
1	1-J	235[A]	THR	6.1
1	2-J	235[B]	THR	6.1
1	3-J	235[C]	THR	6.1
1	4-J	235[D]	THR	6.1
1	1-N	116[A]	GLY	6.1
1	2-N	116[B]	GLY	6.1
1	3-N	116[C]	GLY	6.1
1	4-N	116[D]	GLY	6.1
1	1-P	55[A]	ARG	6.1
1	2-P	55[B]	ARG	6.1
1	3-P	55[C]	ARG	6.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-P	55[D]	ARG	6.1
1	1-I	310[A]	LYS	6.0
1	1-P	240[A]	LEU	6.0
1	2-I	310[B]	LYS	6.0
1	2-P	240[B]	LEU	6.0
1	3-I	310[C]	LYS	6.0
1	3-P	240[C]	LEU	6.0
1	4-I	310[D]	LYS	6.0
1	4-P	240[D]	LEU	6.0
1	1-I	42[A]	GLY	6.0
1	2-I	42[B]	GLY	6.0
1	3-I	42[C]	GLY	6.0
1	4-I	42[D]	GLY	6.0
1	1-K	168[A]	ARG	6.0
1	1-K	216[A]	ARG	6.0
1	2-K	168[B]	ARG	6.0
1	2-K	216[B]	ARG	6.0
1	3-K	168[C]	ARG	6.0
1	3-K	216[C]	ARG	6.0
1	4-K	168[D]	ARG	6.0
1	4-K	216[D]	ARG	6.0
1	1-I	249[A]	PHE	6.0
1	2-I	249[B]	PHE	6.0
1	3-I	249[C]	PHE	6.0
1	4-I	249[D]	PHE	6.0
1	1-I	173[A]	ALA	6.0
1	1-K	140[A]	ASP	6.0
1	2-I	173[B]	ALA	6.0
1	2-K	140[B]	ASP	6.0
1	3-I	173[C]	ALA	6.0
1	3-K	140[C]	ASP	6.0
1	4-I	173[D]	ALA	6.0
1	4-K	140[D]	ASP	6.0
1	1-N	167[A]	ARG	6.0
1	2-N	167[B]	ARG	6.0
1	3-N	167[C]	ARG	6.0
1	4-N	167[D]	ARG	6.0
1	1-M	307[A]	PRO	6.0
1	2-M	307[B]	PRO	6.0
1	3-M	307[C]	PRO	6.0
1	4-M	307[D]	PRO	6.0
1	1-K	291[A]	ASP	6.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-L	205[A]	SER	6.0
1	1-L	313[A]	MET	6.0
1	2-K	291[B]	ASP	6.0
1	2-L	205[B]	SER	6.0
1	2-L	313[B]	MET	6.0
1	3-K	291[C]	ASP	6.0
1	3-L	205[C]	SER	6.0
1	3-L	313[C]	MET	6.0
1	4-K	291[D]	ASP	6.0
1	4-L	205[D]	SER	6.0
1	4-L	313[D]	MET	6.0
1	1-K	286[A]	LYS	6.0
1	2-K	286[B]	LYS	6.0
1	3-K	286[C]	LYS	6.0
1	4-K	286[D]	LYS	6.0
1	1-K	65[A]	LEU	6.0
1	2-K	65[B]	LEU	6.0
1	3-K	65[C]	LEU	6.0
1	4-K	65[D]	LEU	6.0
1	1-K	279[A]	LYS	6.0
1	1-N	206[A]	LYS	6.0
1	1-N	314[A]	LYS	6.0
1	1-P	169[A]	ILE	6.0
1	2-K	279[B]	LYS	6.0
1	2-N	206[B]	LYS	6.0
1	2-N	314[B]	LYS	6.0
1	2-P	169[B]	ILE	6.0
1	3-K	279[C]	LYS	6.0
1	3-N	206[C]	LYS	6.0
1	3-N	314[C]	LYS	6.0
1	3-P	169[C]	ILE	6.0
1	4-K	279[D]	LYS	6.0
1	4-N	206[D]	LYS	6.0
1	4-N	314[D]	LYS	6.0
1	4-P	169[D]	ILE	6.0
1	1-J	141[A]	ALA	6.0
1	2-J	141[B]	ALA	6.0
1	3-J	141[C]	ALA	6.0
1	4-J	141[D]	ALA	6.0
1	1-J	118[A]	ARG	6.0
1	2-J	118[B]	ARG	6.0
1	3-J	118[C]	ARG	6.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-J	118[D]	ARG	6.0
1	1-I	304[A]	GLY	6.0
1	1-K	105[A]	GLY	6.0
1	2-I	304[B]	GLY	6.0
1	2-K	105[B]	GLY	6.0
1	3-I	304[C]	GLY	6.0
1	3-K	105[C]	GLY	6.0
1	4-I	304[D]	GLY	6.0
1	4-K	105[D]	GLY	6.0
1	1-L	176[A]	PRO	6.0
1	2-L	176[B]	PRO	6.0
1	3-L	176[C]	PRO	6.0
1	4-L	176[D]	PRO	6.0
1	1-I	295[A]	PHE	6.0
1	2-I	295[B]	PHE	6.0
1	3-I	295[C]	PHE	6.0
1	4-I	295[D]	PHE	6.0
1	1-K	254[A]	GLY	6.0
1	2-K	254[B]	GLY	6.0
1	3-K	254[C]	GLY	6.0
1	4-K	254[D]	GLY	6.0
1	1-P	145[A]	TYR	6.0
1	2-P	145[B]	TYR	6.0
1	3-P	145[C]	TYR	6.0
1	4-P	145[D]	TYR	6.0
1	1-J	88[A]	THR	6.0
1	1-O	244[A]	THR	6.0
1	2-J	88[B]	THR	6.0
1	2-O	244[B]	THR	6.0
1	3-J	88[C]	THR	6.0
1	3-O	244[C]	THR	6.0
1	4-J	88[D]	THR	6.0
1	4-O	244[D]	THR	6.0
1	1-I	95[A]	SER	6.0
1	2-I	95[B]	SER	6.0
1	3-I	95[C]	SER	6.0
1	4-I	95[D]	SER	6.0
1	1-M	61[A]	ASN	6.0
1	1-P	292[A]	ILE	6.0
1	2-M	61[B]	ASN	6.0
1	2-P	292[B]	ILE	6.0
1	3-M	61[C]	ASN	6.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-P	292[C]	ILE	6.0
1	4-M	61[D]	ASN	6.0
1	4-P	292[D]	ILE	6.0
1	1-P	300[A]	PHE	6.0
1	2-P	300[B]	PHE	6.0
1	3-P	300[C]	PHE	6.0
1	4-P	300[D]	PHE	6.0
1	1-I	75[A]	GLY	6.0
1	2-I	75[B]	GLY	6.0
1	3-I	75[C]	GLY	6.0
1	4-I	75[D]	GLY	6.0
1	1-I	274[A]	PRO	6.0
1	1-M	262[A]	HIS	6.0
1	2-I	274[B]	PRO	6.0
1	2-M	262[B]	HIS	6.0
1	3-I	274[C]	PRO	6.0
1	3-M	262[C]	HIS	6.0
1	4-I	274[D]	PRO	6.0
1	4-M	262[D]	HIS	6.0
1	1-J	62[A]	THR	6.0
1	2-J	62[B]	THR	6.0
1	3-J	62[C]	THR	6.0
1	4-J	62[D]	THR	6.0
1	1-P	267[A]	LYS	6.0
1	2-P	267[B]	LYS	6.0
1	3-P	267[C]	LYS	6.0
1	4-P	267[D]	LYS	6.0
1	1-I	18[A]	HIS	5.9
1	1-J	101[A]	TRP	5.9
1	2-I	18[B]	HIS	5.9
1	2-J	101[B]	TRP	5.9
1	3-I	18[C]	HIS	5.9
1	3-J	101[C]	TRP	5.9
1	4-I	18[D]	HIS	5.9
1	4-J	101[D]	TRP	5.9
1	1-O	68[A]	THR	5.9
1	2-O	68[B]	THR	5.9
1	3-O	68[C]	THR	5.9
1	4-O	68[D]	THR	5.9
1	1-A	260[A]	ARG	5.9
1	1-K	117[A]	HIS	5.9
1	2-A	260[B]	ARG	5.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-K	117[B]	HIS	5.9
1	3-A	260[C]	ARG	5.9
1	3-K	117[C]	HIS	5.9
1	4-A	260[D]	ARG	5.9
1	4-K	117[D]	HIS	5.9
1	1-M	314[A]	LYS	5.9
1	2-M	314[B]	LYS	5.9
1	3-M	314[C]	LYS	5.9
1	4-M	314[D]	LYS	5.9
1	1-J	264[A]	GLU	5.9
1	2-J	264[B]	GLU	5.9
1	3-J	264[C]	GLU	5.9
1	4-J	264[D]	GLU	5.9
1	1-E	115[A]	LEU	5.9
1	1-I	254[A]	GLY	5.9
1	1-I	252[A]	GLN	5.9
1	1-K	296[A]	LYS	5.9
1	1-M	222[A]	LEU	5.9
1	2-E	115[B]	LEU	5.9
1	2-I	254[B]	GLY	5.9
1	2-I	252[B]	GLN	5.9
1	2-K	296[B]	LYS	5.9
1	2-M	222[B]	LEU	5.9
1	3-E	115[C]	LEU	5.9
1	3-I	254[C]	GLY	5.9
1	3-I	252[C]	GLN	5.9
1	3-K	296[C]	LYS	5.9
1	3-M	222[C]	LEU	5.9
1	4-E	115[D]	LEU	5.9
1	4-I	254[D]	GLY	5.9
1	4-I	252[D]	GLN	5.9
1	4-K	296[D]	LYS	5.9
1	4-M	222[D]	LEU	5.9
1	1-J	39[A]	ASP	5.9
1	1-N	150[A]	VAL	5.9
1	2-J	39[B]	ASP	5.9
1	2-N	150[B]	VAL	5.9
1	3-J	39[C]	ASP	5.9
1	3-N	150[C]	VAL	5.9
1	4-J	39[D]	ASP	5.9
1	4-N	150[D]	VAL	5.9
1	1-P	237[A]	MET	5.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-P	237[B]	MET	5.9
1	3-P	237[C]	MET	5.9
1	4-P	237[D]	MET	5.9
1	1-P	305[A]	TYR	5.9
1	2-P	305[B]	TYR	5.9
1	3-P	305[C]	TYR	5.9
1	4-P	305[D]	TYR	5.9
1	1-I	57[A]	SER	5.9
1	1-M	243[A]	ASP	5.9
1	2-I	57[B]	SER	5.9
1	2-M	243[B]	ASP	5.9
1	3-I	57[C]	SER	5.9
1	3-M	243[C]	ASP	5.9
1	4-I	57[D]	SER	5.9
1	4-M	243[D]	ASP	5.9
1	1-K	29[A]	ARG	5.9
1	1-K	36[A]	VAL	5.9
1	2-K	29[B]	ARG	5.9
1	2-K	36[B]	VAL	5.9
1	3-K	29[C]	ARG	5.9
1	3-K	36[C]	VAL	5.9
1	4-K	29[D]	ARG	5.9
1	4-K	36[D]	VAL	5.9
1	1-I	22[A]	GLN	5.9
1	2-I	22[B]	GLN	5.9
1	3-I	22[C]	GLN	5.9
1	4-I	22[D]	GLN	5.9
1	1-K	51[A]	PRO	5.9
1	1-L	211[A]	CYS	5.9
1	2-K	51[B]	PRO	5.9
1	2-L	211[B]	CYS	5.9
1	3-K	51[C]	PRO	5.9
1	3-L	211[C]	CYS	5.9
1	4-K	51[D]	PRO	5.9
1	4-L	211[D]	CYS	5.9
1	1-P	243[A]	ASP	5.9
1	2-P	243[B]	ASP	5.9
1	3-P	243[C]	ASP	5.9
1	4-P	243[D]	ASP	5.9
1	1-I	227[A]	ASN	5.9
1	2-I	227[B]	ASN	5.9
1	3-I	227[C]	ASN	5.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-I	227[D]	ASN	5.9
1	1-I	284[A]	ARG	5.9
1	2-I	284[B]	ARG	5.9
1	3-I	284[C]	ARG	5.9
1	4-I	284[D]	ARG	5.9
1	1-P	189[A]	MET	5.9
1	2-P	189[B]	MET	5.9
1	3-P	189[C]	MET	5.9
1	4-P	189[D]	MET	5.9
1	1-I	31[A]	ILE	5.9
1	2-I	31[B]	ILE	5.9
1	3-I	31[C]	ILE	5.9
1	4-I	31[D]	ILE	5.9
1	1-N	185[A]	PRO	5.9
1	2-N	185[B]	PRO	5.9
1	3-N	185[C]	PRO	5.9
1	4-N	185[D]	PRO	5.9
1	1-M	151[A]	ASP	5.9
1	2-M	151[B]	ASP	5.9
1	3-M	151[C]	ASP	5.9
1	4-M	151[D]	ASP	5.9
1	1-I	237[A]	MET	5.9
1	2-I	237[B]	MET	5.9
1	3-I	237[C]	MET	5.9
1	4-I	237[D]	MET	5.9
1	1-J	257[A]	HIS	5.8
1	1-P	160[A]	ILE	5.8
1	2-J	257[B]	HIS	5.8
1	2-P	160[B]	ILE	5.8
1	3-J	257[C]	HIS	5.8
1	3-P	160[C]	ILE	5.8
1	4-J	257[D]	HIS	5.8
1	4-P	160[D]	ILE	5.8
1	1-K	118[A]	ARG	5.8
1	1-P	37[A]	ARG	5.8
1	2-K	118[B]	ARG	5.8
1	2-P	37[B]	ARG	5.8
1	3-K	118[C]	ARG	5.8
1	3-P	37[C]	ARG	5.8
1	4-K	118[D]	ARG	5.8
1	4-P	37[D]	ARG	5.8
1	1-L	108[A]	GLU	5.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-M	131[A]	TRP	5.8
1	2-L	108[B]	GLU	5.8
1	2-M	131[B]	TRP	5.8
1	3-L	108[C]	GLU	5.8
1	3-M	131[C]	TRP	5.8
1	4-L	108[D]	GLU	5.8
1	4-M	131[D]	TRP	5.8
1	1-L	41[A]	THR	5.8
1	1-N	121[A]	GLY	5.8
1	2-L	41[B]	THR	5.8
1	2-N	121[B]	GLY	5.8
1	3-L	41[C]	THR	5.8
1	3-N	121[C]	GLY	5.8
1	4-L	41[D]	THR	5.8
1	4-N	121[D]	GLY	5.8
1	1-L	260[A]	ARG	5.8
1	2-L	260[B]	ARG	5.8
1	3-L	260[C]	ARG	5.8
1	4-L	260[D]	ARG	5.8
1	1-C	15[A]	ASN	5.8
1	1-J	215[A]	GLN	5.8
1	2-C	15[B]	ASN	5.8
1	2-J	215[B]	GLN	5.8
1	3-C	15[C]	ASN	5.8
1	3-J	215[C]	GLN	5.8
1	4-C	15[D]	ASN	5.8
1	4-J	215[D]	GLN	5.8
1	1-J	102[A]	ASP	5.8
1	1-M	122[A]	ASP	5.8
1	1-P	58[A]	LEU	5.8
1	2-J	102[B]	ASP	5.8
1	2-M	122[B]	ASP	5.8
1	2-P	58[B]	LEU	5.8
1	3-J	102[C]	ASP	5.8
1	3-M	122[C]	ASP	5.8
1	3-P	58[C]	LEU	5.8
1	4-J	102[D]	ASP	5.8
1	4-M	122[D]	ASP	5.8
1	4-P	58[D]	LEU	5.8
1	1-P	257[A]	HIS	5.8
1	2-P	257[B]	HIS	5.8
1	3-P	257[C]	HIS	5.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-P	257[D]	HIS	5.8
1	1-K	284[A]	ARG	5.8
1	2-K	284[B]	ARG	5.8
1	3-K	284[C]	ARG	5.8
1	4-K	284[D]	ARG	5.8
1	1-I	300[A]	PHE	5.8
1	2-I	300[B]	PHE	5.8
1	3-I	300[C]	PHE	5.8
1	4-I	300[D]	PHE	5.8
1	1-B	292[A]	ILE	5.8
1	1-L	160[A]	ILE	5.8
1	2-B	292[B]	ILE	5.8
1	2-L	160[B]	ILE	5.8
1	3-B	292[C]	ILE	5.8
1	3-L	160[C]	ILE	5.8
1	4-B	292[D]	ILE	5.8
1	4-L	160[D]	ILE	5.8
1	1-N	285[A]	SER	5.8
1	2-N	285[B]	SER	5.8
1	3-N	285[C]	SER	5.8
1	4-N	285[D]	SER	5.8
1	1-I	255[A]	ASP	5.8
1	2-I	255[B]	ASP	5.8
1	3-I	255[C]	ASP	5.8
1	4-I	255[D]	ASP	5.8
1	1-M	121[A]	GLY	5.8
1	2-M	121[B]	GLY	5.8
1	3-M	121[C]	GLY	5.8
1	4-M	121[D]	GLY	5.8
1	1-M	137[A]	GLU	5.8
1	1-M	303[A]	GLU	5.8
1	2-M	137[B]	GLU	5.8
1	2-M	303[B]	GLU	5.8
1	3-M	137[C]	GLU	5.8
1	3-M	303[C]	GLU	5.8
1	4-M	137[D]	GLU	5.8
1	4-M	303[D]	GLU	5.8
1	1-K	171[A]	LEU	5.8
1	2-K	171[B]	LEU	5.8
1	3-K	171[C]	LEU	5.8
1	4-K	171[D]	LEU	5.8
1	1-K	56[A]	PHE	5.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-L	208[A]	LYS	5.8
1	2-K	56[B]	PHE	5.8
1	2-L	208[B]	LYS	5.8
1	3-K	56[C]	PHE	5.8
1	3-L	208[C]	LYS	5.8
1	4-K	56[D]	PHE	5.8
1	4-L	208[D]	LYS	5.8
1	1-J	85[A]	SER	5.8
1	1-I	297[A]	VAL	5.8
1	1-L	30[A]	ILE	5.8
1	2-J	85[B]	SER	5.8
1	2-I	297[B]	VAL	5.8
1	2-L	30[B]	ILE	5.8
1	3-J	85[C]	SER	5.8
1	3-I	297[C]	VAL	5.8
1	3-L	30[C]	ILE	5.8
1	4-J	85[D]	SER	5.8
1	4-I	297[D]	VAL	5.8
1	4-L	30[D]	ILE	5.8
1	1-A	201[A]	ASP	5.8
1	2-A	201[B]	ASP	5.8
1	3-A	201[C]	ASP	5.8
1	4-A	201[D]	ASP	5.8
1	1-I	40[A]	ARG	5.8
1	1-J	79[A]	GLU	5.8
1	2-I	40[B]	ARG	5.8
1	2-J	79[B]	GLU	5.8
1	3-I	40[C]	ARG	5.8
1	3-J	79[C]	GLU	5.8
1	4-I	40[D]	ARG	5.8
1	4-J	79[D]	GLU	5.8
1	1-M	207[A]	PRO	5.8
1	2-M	207[B]	PRO	5.8
1	3-M	207[C]	PRO	5.8
1	4-M	207[D]	PRO	5.8
1	1-J	310[A]	LYS	5.8
1	1-K	123[A]	LEU	5.8
1	2-J	310[B]	LYS	5.8
1	2-K	123[B]	LEU	5.8
1	3-J	310[C]	LYS	5.8
1	3-K	123[C]	LEU	5.8
1	4-J	310[D]	LYS	5.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-K	123[D]	LEU	5.8
1	1-L	231[A]	TYR	5.8
1	2-L	231[B]	TYR	5.8
1	3-L	231[C]	TYR	5.8
1	4-L	231[D]	TYR	5.8
1	1-J	214[A]	TYR	5.8
1	2-J	214[B]	TYR	5.8
1	3-J	214[C]	TYR	5.8
1	4-J	214[D]	TYR	5.8
1	1-L	94[A]	SER	5.8
1	2-L	94[B]	SER	5.8
1	3-L	94[C]	SER	5.8
1	4-L	94[D]	SER	5.8
1	1-M	223[A]	GLY	5.8
1	1-P	306[A]	LYS	5.8
1	2-M	223[B]	GLY	5.8
1	2-P	306[B]	LYS	5.8
1	3-M	223[C]	GLY	5.8
1	3-P	306[C]	LYS	5.8
1	4-M	223[D]	GLY	5.8
1	4-P	306[D]	LYS	5.8
1	1-K	180[A]	PRO	5.8
1	1-P	246[A]	PRO	5.8
1	2-K	180[B]	PRO	5.8
1	2-P	246[B]	PRO	5.8
1	3-K	180[C]	PRO	5.8
1	3-P	246[C]	PRO	5.8
1	4-K	180[D]	PRO	5.8
1	4-P	246[D]	PRO	5.8
1	1-I	163[A]	ASN	5.7
1	2-I	163[B]	ASN	5.7
1	3-I	163[C]	ASN	5.7
1	4-I	163[D]	ASN	5.7
1	1-N	70[A]	ARG	5.7
1	2-N	70[B]	ARG	5.7
1	3-N	70[C]	ARG	5.7
1	4-N	70[D]	ARG	5.7
1	1-J	230[A]	SER	5.7
1	2-J	230[B]	SER	5.7
1	3-J	230[C]	SER	5.7
1	4-J	230[D]	SER	5.7
1	1-J	143[A]	GLY	5.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-P	154[A]	GLN	5.7
1	2-J	143[B]	GLY	5.7
1	2-P	154[B]	GLN	5.7
1	3-J	143[C]	GLY	5.7
1	3-P	154[C]	GLN	5.7
1	4-J	143[D]	GLY	5.7
1	4-P	154[D]	GLN	5.7
1	1-O	313[A]	MET	5.7
1	2-O	313[B]	MET	5.7
1	3-O	313[C]	MET	5.7
1	4-O	313[D]	MET	5.7
1	1-L	271[A]	GLU	5.7
1	2-L	271[B]	GLU	5.7
1	3-L	271[C]	GLU	5.7
1	4-L	271[D]	GLU	5.7
1	1-P	140[A]	ASP	5.7
1	2-P	140[B]	ASP	5.7
1	3-P	140[C]	ASP	5.7
1	4-P	140[D]	ASP	5.7
1	1-M	183[A]	ALA	5.7
1	2-M	183[B]	ALA	5.7
1	3-M	183[C]	ALA	5.7
1	4-M	183[D]	ALA	5.7
1	1-L	123[A]	LEU	5.7
1	1-L	240[A]	LEU	5.7
1	2-L	123[B]	LEU	5.7
1	2-L	240[B]	LEU	5.7
1	3-L	123[C]	LEU	5.7
1	3-L	240[C]	LEU	5.7
1	4-L	123[D]	LEU	5.7
1	4-L	240[D]	LEU	5.7
1	1-O	309[A]	GLY	5.7
1	2-O	309[B]	GLY	5.7
1	3-O	309[C]	GLY	5.7
1	4-O	309[D]	GLY	5.7
1	1-O	19[A]	GLU	5.7
1	2-O	19[B]	GLU	5.7
1	3-O	19[C]	GLU	5.7
1	4-O	19[D]	GLU	5.7
1	1-N	235[A]	THR	5.7
1	2-N	235[B]	THR	5.7
1	3-N	235[C]	THR	5.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-N	235[D]	THR	5.7
1	1-M	197[A]	LEU	5.7
1	1-P	266[A]	LEU	5.7
1	2-M	197[B]	LEU	5.7
1	2-P	266[B]	LEU	5.7
1	3-M	197[C]	LEU	5.7
1	3-P	266[C]	LEU	5.7
1	4-M	197[D]	LEU	5.7
1	4-P	266[D]	LEU	5.7
1	1-L	252[A]	GLN	5.7
1	2-L	252[B]	GLN	5.7
1	3-L	252[C]	GLN	5.7
1	4-L	252[D]	GLN	5.7
1	1-I	156[A]	VAL	5.7
1	1-K	62[A]	THR	5.7
1	1-M	247[A]	HIS	5.7
1	2-I	156[B]	VAL	5.7
1	2-K	62[B]	THR	5.7
1	2-M	247[B]	HIS	5.7
1	3-I	156[C]	VAL	5.7
1	3-K	62[C]	THR	5.7
1	3-M	247[C]	HIS	5.7
1	4-I	156[D]	VAL	5.7
1	4-K	62[D]	THR	5.7
1	4-M	247[D]	HIS	5.7
1	1-I	66[A]	LEU	5.7
1	2-I	66[B]	LEU	5.7
1	3-I	66[C]	LEU	5.7
1	4-I	66[D]	LEU	5.7
1	1-J	57[A]	SER	5.7
1	2-J	57[B]	SER	5.7
1	3-J	57[C]	SER	5.7
1	4-J	57[D]	SER	5.7
1	1-L	283[A]	ALA	5.7
1	1-M	156[A]	VAL	5.7
1	1-P	264[A]	GLU	5.7
1	2-L	283[B]	ALA	5.7
1	2-M	156[B]	VAL	5.7
1	2-P	264[B]	GLU	5.7
1	3-L	283[C]	ALA	5.7
1	3-M	156[C]	VAL	5.7
1	3-P	264[C]	GLU	5.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-L	283[D]	ALA	5.7
1	4-M	156[D]	VAL	5.7
1	4-P	264[D]	GLU	5.7
1	1-B	212[A]	LEU	5.6
1	1-P	310[A]	LYS	5.6
1	2-B	212[B]	LEU	5.6
1	2-P	310[B]	LYS	5.6
1	3-B	212[C]	LEU	5.6
1	3-P	310[C]	LYS	5.6
1	4-B	212[D]	LEU	5.6
1	4-P	310[D]	LYS	5.6
1	1-C	316[A]	SER	5.6
1	1-L	44[A]	GLY	5.6
1	2-C	316[B]	SER	5.6
1	2-L	44[B]	GLY	5.6
1	3-C	316[C]	SER	5.6
1	3-L	44[C]	GLY	5.6
1	4-C	316[D]	SER	5.6
1	4-L	44[D]	GLY	5.6
1	1-M	82[A]	TRP	5.6
1	2-M	82[B]	TRP	5.6
1	3-M	82[C]	TRP	5.6
1	4-M	82[D]	TRP	5.6
1	1-M	37[A]	ARG	5.6
1	2-M	37[B]	ARG	5.6
1	3-M	37[C]	ARG	5.6
1	4-M	37[D]	ARG	5.6
1	1-O	257[A]	HIS	5.6
1	2-O	257[B]	HIS	5.6
1	3-O	257[C]	HIS	5.6
1	4-O	257[D]	HIS	5.6
1	1-P	249[A]	PHE	5.6
1	2-P	249[B]	PHE	5.6
1	3-P	249[C]	PHE	5.6
1	4-P	249[D]	PHE	5.6
1	1-I	145[A]	TYR	5.6
1	2-I	145[B]	TYR	5.6
1	3-I	145[C]	TYR	5.6
1	4-I	145[D]	TYR	5.6
1	1-J	296[A]	LYS	5.6
1	2-J	296[B]	LYS	5.6
1	3-J	296[C]	LYS	5.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-J	296[D]	LYS	5.6
1	1-I	166[A]	ASP	5.6
1	2-I	166[B]	ASP	5.6
1	3-I	166[C]	ASP	5.6
1	4-I	166[D]	ASP	5.6
1	1-P	290[A]	GLY	5.6
1	2-P	290[B]	GLY	5.6
1	3-P	290[C]	GLY	5.6
1	4-P	290[D]	GLY	5.6
1	1-J	38[A]	PRO	5.6
1	1-M	227[A]	ASN	5.6
1	1-O	185[A]	PRO	5.6
1	2-J	38[B]	PRO	5.6
1	2-M	227[B]	ASN	5.6
1	2-O	185[B]	PRO	5.6
1	3-J	38[C]	PRO	5.6
1	3-M	227[C]	ASN	5.6
1	3-O	185[C]	PRO	5.6
1	4-J	38[D]	PRO	5.6
1	4-M	227[D]	ASN	5.6
1	4-O	185[D]	PRO	5.6
1	1-K	83[A]	PHE	5.6
1	2-K	83[B]	PHE	5.6
1	3-K	83[C]	PHE	5.6
1	4-K	83[D]	PHE	5.6
1	1-I	291[A]	ASP	5.6
1	1-J	317[A]	ALA	5.6
1	2-I	291[B]	ASP	5.6
1	2-J	317[B]	ALA	5.6
1	3-I	291[C]	ASP	5.6
1	3-J	317[C]	ALA	5.6
1	4-I	291[D]	ASP	5.6
1	4-J	317[D]	ALA	5.6
1	1-B	202[A]	SER	5.6
1	1-N	208[A]	LYS	5.6
1	2-B	202[B]	SER	5.6
1	2-N	208[B]	LYS	5.6
1	3-B	202[C]	SER	5.6
1	3-N	208[C]	LYS	5.6
1	4-B	202[D]	SER	5.6
1	4-N	208[D]	LYS	5.6
1	1-K	88[A]	THR	5.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-K	88[B]	THR	5.6
1	3-K	88[C]	THR	5.6
1	4-K	88[D]	THR	5.6
1	1-K	256[A]	ALA	5.6
1	2-K	256[B]	ALA	5.6
1	3-K	256[C]	ALA	5.6
1	4-K	256[D]	ALA	5.6
1	1-I	228[A]	ILE	5.6
1	1-N	82[A]	TRP	5.6
1	2-I	228[B]	ILE	5.6
1	2-N	82[B]	TRP	5.6
1	3-I	228[C]	ILE	5.6
1	3-N	82[C]	TRP	5.6
1	4-I	228[D]	ILE	5.6
1	4-N	82[D]	TRP	5.6
1	1-I	273[A]	GLU	5.6
1	2-I	273[B]	GLU	5.6
1	3-I	273[C]	GLU	5.6
1	4-I	273[D]	GLU	5.6
1	1-M	63[A]	LEU	5.6
1	2-M	63[B]	LEU	5.6
1	3-M	63[C]	LEU	5.6
1	4-M	63[D]	LEU	5.6
1	1-L	192[A]	GLN	5.6
1	1-P	269[A]	GLN	5.6
1	2-L	192[B]	GLN	5.6
1	2-P	269[B]	GLN	5.6
1	3-L	192[C]	GLN	5.6
1	3-P	269[C]	GLN	5.6
1	4-L	192[D]	GLN	5.6
1	4-P	269[D]	GLN	5.6
1	1-K	70[A]	ARG	5.6
1	2-K	70[B]	ARG	5.6
1	3-K	70[C]	ARG	5.6
1	4-K	70[D]	ARG	5.6
1	1-P	203[A]	PRO	5.6
1	2-P	203[B]	PRO	5.6
1	3-P	203[C]	PRO	5.6
1	4-P	203[D]	PRO	5.6
1	1-I	312[A]	ASP	5.6
1	2-I	312[B]	ASP	5.6
1	3-I	312[C]	ASP	5.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-I	312[D]	ASP	5.6
1	1-I	268[A]	THR	5.6
1	1-O	252[A]	GLN	5.6
1	2-I	268[B]	THR	5.6
1	2-O	252[B]	GLN	5.6
1	3-I	268[C]	THR	5.6
1	3-O	252[C]	GLN	5.6
1	4-I	268[D]	THR	5.6
1	4-O	252[D]	GLN	5.6
1	1-I	194[A]	PHE	5.5
1	1-I	277[A]	PHE	5.5
1	1-K	119[A]	ARG	5.5
1	1-K	264[A]	GLU	5.5
1	2-I	194[B]	PHE	5.5
1	2-I	277[B]	PHE	5.5
1	2-K	119[B]	ARG	5.5
1	2-K	264[B]	GLU	5.5
1	3-I	194[C]	PHE	5.5
1	3-I	277[C]	PHE	5.5
1	3-K	119[C]	ARG	5.5
1	3-K	264[C]	GLU	5.5
1	4-I	194[D]	PHE	5.5
1	4-I	277[D]	PHE	5.5
1	4-K	119[D]	ARG	5.5
1	4-K	264[D]	GLU	5.5
1	1-I	85[A]	SER	5.5
1	2-I	85[B]	SER	5.5
1	3-I	85[C]	SER	5.5
1	4-I	85[D]	SER	5.5
1	1-L	314[A]	LYS	5.5
1	2-L	314[B]	LYS	5.5
1	3-L	314[C]	LYS	5.5
1	4-L	314[D]	LYS	5.5
1	1-K	224[A]	VAL	5.5
1	2-K	224[B]	VAL	5.5
1	3-K	224[C]	VAL	5.5
1	4-K	224[D]	VAL	5.5
1	1-O	191[A]	CYS	5.5
1	2-O	191[B]	CYS	5.5
1	3-O	191[C]	CYS	5.5
1	4-O	191[D]	CYS	5.5
1	1-L	277[A]	PHE	5.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-L	277[B]	PHE	5.5
1	3-L	277[C]	PHE	5.5
1	4-L	277[D]	PHE	5.5
1	1-J	199[A]	PRO	5.5
1	2-J	199[B]	PRO	5.5
1	3-J	199[C]	PRO	5.5
1	4-J	199[D]	PRO	5.5
1	1-I	71[A]	VAL	5.5
1	2-I	71[B]	VAL	5.5
1	3-I	71[C]	VAL	5.5
1	4-I	71[D]	VAL	5.5
1	1-O	221[A]	GLY	5.5
1	2-O	221[B]	GLY	5.5
1	3-O	221[C]	GLY	5.5
1	4-O	221[D]	GLY	5.5
1	1-I	198[A]	PRO	5.5
1	1-J	217[A]	SER	5.5
1	1-N	276[A]	ASP	5.5
1	2-I	198[B]	PRO	5.5
1	2-J	217[B]	SER	5.5
1	2-N	276[B]	ASP	5.5
1	3-I	198[C]	PRO	5.5
1	3-J	217[C]	SER	5.5
1	3-N	276[C]	ASP	5.5
1	4-I	198[D]	PRO	5.5
1	4-J	217[D]	SER	5.5
1	4-N	276[D]	ASP	5.5
1	1-K	193[A]	PHE	5.5
1	2-K	193[B]	PHE	5.5
1	3-K	193[C]	PHE	5.5
1	4-K	193[D]	PHE	5.5
1	1-M	173[A]	ALA	5.5
1	2-M	173[B]	ALA	5.5
1	3-M	173[C]	ALA	5.5
1	4-M	173[D]	ALA	5.5
1	1-M	276[A]	ASP	5.5
1	2-M	276[B]	ASP	5.5
1	3-M	276[C]	ASP	5.5
1	4-M	276[D]	ASP	5.5
1	1-I	298[A]	GLU	5.5
1	2-I	298[B]	GLU	5.5
1	3-I	298[C]	GLU	5.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-I	298[D]	GLU	5.5
1	1-G	47[A]	ALA	5.5
1	2-G	47[B]	ALA	5.5
1	3-G	47[C]	ALA	5.5
1	4-G	47[D]	ALA	5.5
1	1-L	117[A]	HIS	5.5
1	2-L	117[B]	HIS	5.5
1	3-L	117[C]	HIS	5.5
1	4-L	117[D]	HIS	5.5
1	1-N	221[A]	GLY	5.5
1	2-N	221[B]	GLY	5.5
1	3-N	221[C]	GLY	5.5
1	4-N	221[D]	GLY	5.5
1	1-N	84[A]	VAL	5.5
1	2-N	84[B]	VAL	5.5
1	3-N	84[C]	VAL	5.5
1	4-N	84[D]	VAL	5.5
1	1-J	24[A]	LEU	5.5
1	2-J	24[B]	LEU	5.5
1	3-J	24[C]	LEU	5.5
1	4-J	24[D]	LEU	5.5
1	1-E	190[A]	PHE	5.5
1	2-E	190[B]	PHE	5.5
1	3-E	190[C]	PHE	5.5
1	4-E	190[D]	PHE	5.5
1	1-I	97[A]	GLY	5.5
1	2-I	97[B]	GLY	5.5
1	3-I	97[C]	GLY	5.5
1	4-I	97[D]	GLY	5.5
1	1-M	138[A]	TYR	5.5
1	2-M	138[B]	TYR	5.5
1	3-M	138[C]	TYR	5.5
1	4-M	138[D]	TYR	5.5
1	1-E	203[A]	PRO	5.5
1	2-E	203[B]	PRO	5.5
1	3-E	203[C]	PRO	5.5
1	4-E	203[D]	PRO	5.5
1	1-O	24[A]	LEU	5.5
1	2-O	24[B]	LEU	5.5
1	3-O	24[C]	LEU	5.5
1	4-O	24[D]	LEU	5.5
1	1-H	271[A]	GLU	5.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-K	298[A]	GLU	5.5
1	1-L	312[A]	ASP	5.5
1	2-H	271[B]	GLU	5.5
1	2-K	298[B]	GLU	5.5
1	2-L	312[B]	ASP	5.5
1	3-H	271[C]	GLU	5.5
1	3-K	298[C]	GLU	5.5
1	3-L	312[C]	ASP	5.5
1	4-H	271[D]	GLU	5.5
1	4-K	298[D]	GLU	5.5
1	4-L	312[D]	ASP	5.5
1	1-L	272[A]	ARG	5.5
1	2-L	272[B]	ARG	5.5
1	3-L	272[C]	ARG	5.5
1	4-L	272[D]	ARG	5.5
1	1-O	278[A]	PRO	5.4
1	1-P	16[A]	PRO	5.4
1	2-O	278[B]	PRO	5.4
1	2-P	16[B]	PRO	5.4
1	3-O	278[C]	PRO	5.4
1	3-P	16[C]	PRO	5.4
1	4-O	278[D]	PRO	5.4
1	4-P	16[D]	PRO	5.4
1	1-F	160[A]	ILE	5.4
1	1-I	142[A]	ASP	5.4
1	2-F	160[B]	ILE	5.4
1	2-I	142[B]	ASP	5.4
1	3-F	160[C]	ILE	5.4
1	3-I	142[C]	ASP	5.4
1	4-F	160[D]	ILE	5.4
1	4-I	142[D]	ASP	5.4
1	1-N	55[A]	ARG	5.4
1	2-N	55[B]	ARG	5.4
1	3-N	55[C]	ARG	5.4
1	4-N	55[D]	ARG	5.4
1	1-M	186[A]	PRO	5.4
1	2-M	186[B]	PRO	5.4
1	3-M	186[C]	PRO	5.4
1	4-M	186[D]	PRO	5.4
1	1-L	70[A]	ARG	5.4
1	2-L	70[B]	ARG	5.4
1	3-L	70[C]	ARG	5.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-L	70[D]	ARG	5.4
1	1-M	192[A]	GLN	5.4
1	1-E	44[A]	GLY	5.4
1	1-J	31[A]	ILE	5.4
1	1-M	292[A]	ILE	5.4
1	2-M	192[B]	GLN	5.4
1	2-E	44[B]	GLY	5.4
1	2-J	31[B]	ILE	5.4
1	2-M	292[B]	ILE	5.4
1	3-E	44[C]	GLY	5.4
1	3-J	31[C]	ILE	5.4
1	3-M	192[C]	GLN	5.4
1	3-M	292[C]	ILE	5.4
1	4-E	44[D]	GLY	5.4
1	4-J	31[D]	ILE	5.4
1	4-M	192[D]	GLN	5.4
1	4-M	292[D]	ILE	5.4
1	1-L	317[A]	ALA	5.4
1	2-L	317[B]	ALA	5.4
1	3-L	317[C]	ALA	5.4
1	4-L	317[D]	ALA	5.4
1	1-I	25[A]	ASP	5.4
1	1-N	219[A]	ASP	5.4
1	2-I	25[B]	ASP	5.4
1	2-N	219[B]	ASP	5.4
1	3-I	25[C]	ASP	5.4
1	3-N	219[C]	ASP	5.4
1	4-I	25[D]	ASP	5.4
1	4-N	219[D]	ASP	5.4
1	1-I	187[A]	CYS	5.4
1	2-I	187[B]	CYS	5.4
1	3-I	187[C]	CYS	5.4
1	4-I	187[D]	CYS	5.4
1	1-J	117[A]	HIS	5.4
1	1-L	152[A]	GLN	5.4
1	2-J	117[B]	HIS	5.4
1	2-L	152[B]	GLN	5.4
1	3-J	117[C]	HIS	5.4
1	3-L	152[C]	GLN	5.4
1	4-J	117[D]	HIS	5.4
1	4-L	152[D]	GLN	5.4
1	1-G	36[A]	VAL	5.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-G	36[B]	VAL	5.4
1	3-G	36[C]	VAL	5.4
1	4-G	36[D]	VAL	5.4
1	1-N	251[A]	LEU	5.4
1	1-O	233[A]	LEU	5.4
1	2-N	251[B]	LEU	5.4
1	2-O	233[B]	LEU	5.4
1	3-N	251[C]	LEU	5.4
1	3-O	233[C]	LEU	5.4
1	4-N	251[D]	LEU	5.4
1	4-O	233[D]	LEU	5.4
1	1-K	208[A]	LYS	5.4
1	2-K	208[B]	LYS	5.4
1	3-K	208[C]	LYS	5.4
1	4-K	208[D]	LYS	5.4
1	1-P	271[A]	GLU	5.4
1	2-P	271[B]	GLU	5.4
1	3-P	271[C]	GLU	5.4
1	4-P	271[D]	GLU	5.4
1	1-M	81[A]	LEU	5.4
1	2-M	81[B]	LEU	5.4
1	3-M	81[C]	LEU	5.4
1	4-M	81[D]	LEU	5.4
1	1-O	170[A]	ILE	5.4
1	2-O	170[B]	ILE	5.4
1	3-O	170[C]	ILE	5.4
1	4-O	170[D]	ILE	5.4
1	1-L	225[A]	PRO	5.4
1	2-L	225[B]	PRO	5.4
1	3-L	225[C]	PRO	5.4
1	4-L	225[D]	PRO	5.4
1	1-J	189[A]	MET	5.4
1	1-L	92[A]	MET	5.4
1	1-K	152[A]	GLN	5.4
1	1-N	106[A]	SER	5.4
1	1-O	58[A]	LEU	5.4
1	2-J	189[B]	MET	5.4
1	2-L	92[B]	MET	5.4
1	2-K	152[B]	GLN	5.4
1	2-N	106[B]	SER	5.4
1	2-O	58[B]	LEU	5.4
1	3-J	189[C]	MET	5.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-L	92[C]	MET	5.4
1	3-N	106[C]	SER	5.4
1	3-O	58[C]	LEU	5.4
1	4-J	189[D]	MET	5.4
1	4-L	92[D]	MET	5.4
1	4-N	106[D]	SER	5.4
1	4-O	58[D]	LEU	5.4
1	3-K	152[C]	GLN	5.4
1	4-K	152[D]	GLN	5.4
1	1-I	223[A]	GLY	5.4
1	1-L	135[A]	GLY	5.4
1	2-I	223[B]	GLY	5.4
1	2-L	135[B]	GLY	5.4
1	3-I	223[C]	GLY	5.4
1	3-L	135[C]	GLY	5.4
1	4-I	223[D]	GLY	5.4
1	4-L	135[D]	GLY	5.4
1	1-P	241[A]	ILE	5.3
1	2-P	241[B]	ILE	5.3
1	3-P	241[C]	ILE	5.3
1	4-P	241[D]	ILE	5.3
1	1-M	45[A]	THR	5.3
1	1-O	72[A]	PHE	5.3
1	2-M	45[B]	THR	5.3
1	2-O	72[B]	PHE	5.3
1	3-M	45[C]	THR	5.3
1	3-O	72[C]	PHE	5.3
1	4-M	45[D]	THR	5.3
1	4-O	72[D]	PHE	5.3
1	1-N	40[A]	ARG	5.3
1	2-N	40[B]	ARG	5.3
1	3-N	40[C]	ARG	5.3
1	4-N	40[D]	ARG	5.3
1	1-J	20[A]	GLU	5.3
1	2-J	20[B]	GLU	5.3
1	3-J	20[C]	GLU	5.3
1	4-J	20[D]	GLU	5.3
1	1-K	222[A]	LEU	5.3
1	1-M	270[A]	LEU	5.3
1	2-K	222[B]	LEU	5.3
1	2-M	270[B]	LEU	5.3
1	3-K	222[C]	LEU	5.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-M	270[C]	LEU	5.3
1	4-K	222[D]	LEU	5.3
1	4-M	270[D]	LEU	5.3
1	1-O	67[A]	THR	5.3
1	2-O	67[B]	THR	5.3
1	3-O	67[C]	THR	5.3
1	4-O	67[D]	THR	5.3
1	1-M	72[A]	PHE	5.3
1	2-M	72[B]	PHE	5.3
1	3-M	72[C]	PHE	5.3
1	4-M	72[D]	PHE	5.3
1	1-G	203[A]	PRO	5.3
1	1-M	269[A]	GLN	5.3
1	2-G	203[B]	PRO	5.3
1	2-M	269[B]	GLN	5.3
1	3-G	203[C]	PRO	5.3
1	3-M	269[C]	GLN	5.3
1	4-G	203[D]	PRO	5.3
1	4-M	269[D]	GLN	5.3
1	1-J	18[A]	HIS	5.3
1	2-J	18[B]	HIS	5.3
1	3-J	18[C]	HIS	5.3
1	4-J	18[D]	HIS	5.3
1	1-P	151[A]	ASP	5.3
1	1-B	204[A]	GLY	5.3
1	1-D	283[A]	ALA	5.3
1	2-P	151[B]	ASP	5.3
1	2-B	204[B]	GLY	5.3
1	2-D	283[B]	ALA	5.3
1	3-B	204[C]	GLY	5.3
1	3-D	283[C]	ALA	5.3
1	3-P	151[C]	ASP	5.3
1	4-B	204[D]	GLY	5.3
1	4-D	283[D]	ALA	5.3
1	4-P	151[D]	ASP	5.3
1	1-L	241[A]	ILE	5.3
1	2-L	241[B]	ILE	5.3
1	3-L	241[C]	ILE	5.3
1	4-L	241[D]	ILE	5.3
1	1-I	61[A]	ASN	5.3
1	2-I	61[B]	ASN	5.3
1	3-I	61[C]	ASN	5.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-I	61[D]	ASN	5.3
1	1-N	188[A]	HIS	5.3
1	2-N	188[B]	HIS	5.3
1	3-N	188[C]	HIS	5.3
1	4-N	188[D]	HIS	5.3
1	1-K	102[A]	ASP	5.3
1	1-K	219[A]	ASP	5.3
1	2-K	102[B]	ASP	5.3
1	2-K	219[B]	ASP	5.3
1	3-K	102[C]	ASP	5.3
1	3-K	219[C]	ASP	5.3
1	4-K	102[D]	ASP	5.3
1	4-K	219[D]	ASP	5.3
1	1-I	69[A]	LYS	5.3
1	1-I	179[A]	LEU	5.3
1	1-K	58[A]	LEU	5.3
1	1-L	113[A]	VAL	5.3
1	1-N	58[A]	LEU	5.3
1	2-I	69[B]	LYS	5.3
1	2-I	179[B]	LEU	5.3
1	2-K	58[B]	LEU	5.3
1	2-L	113[B]	VAL	5.3
1	2-N	58[B]	LEU	5.3
1	3-I	69[C]	LYS	5.3
1	3-I	179[C]	LEU	5.3
1	3-K	58[C]	LEU	5.3
1	3-L	113[C]	VAL	5.3
1	3-N	58[C]	LEU	5.3
1	4-I	69[D]	LYS	5.3
1	4-I	179[D]	LEU	5.3
1	4-K	58[D]	LEU	5.3
1	4-L	113[D]	VAL	5.3
1	4-N	58[D]	LEU	5.3
1	1-J	211[A]	CYS	5.3
1	2-J	211[B]	CYS	5.3
1	3-J	211[C]	CYS	5.3
1	4-J	211[D]	CYS	5.3
1	1-A	15[A]	ASN	5.3
1	1-N	264[A]	GLU	5.3
1	2-A	15[B]	ASN	5.3
1	2-N	264[B]	GLU	5.3
1	3-A	15[C]	ASN	5.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-N	264[C]	GLU	5.3
1	4-A	15[D]	ASN	5.3
1	4-N	264[D]	GLU	5.3
1	1-N	91[A]	LYS	5.3
1	2-N	91[B]	LYS	5.3
1	3-N	91[C]	LYS	5.3
1	4-N	91[D]	LYS	5.3
1	1-P	198[A]	PRO	5.3
1	2-P	198[B]	PRO	5.3
1	3-P	198[C]	PRO	5.3
1	4-P	198[D]	PRO	5.3
1	1-L	23[A]	TYR	5.3
1	2-L	23[B]	TYR	5.3
1	3-L	23[C]	TYR	5.3
1	4-L	23[D]	TYR	5.3
1	1-P	76[A]	VAL	5.3
1	1-P	216[A]	ARG	5.3
1	2-P	76[B]	VAL	5.3
1	2-P	216[B]	ARG	5.3
1	3-P	76[C]	VAL	5.3
1	3-P	216[C]	ARG	5.3
1	4-P	76[D]	VAL	5.3
1	4-P	216[D]	ARG	5.3
1	1-O	163[A]	ASN	5.3
1	1-P	61[A]	ASN	5.3
1	2-O	163[B]	ASN	5.3
1	2-P	61[B]	ASN	5.3
1	3-O	163[C]	ASN	5.3
1	3-P	61[C]	ASN	5.3
1	4-O	163[D]	ASN	5.3
1	4-P	61[D]	ASN	5.3
1	1-B	201[A]	ASP	5.3
1	2-B	201[B]	ASP	5.3
1	3-B	201[C]	ASP	5.3
1	4-B	201[D]	ASP	5.3
1	1-L	315[A]	MET	5.3
1	2-L	315[B]	MET	5.3
1	3-L	315[C]	MET	5.3
1	4-L	315[D]	MET	5.3
1	1-N	271[A]	GLU	5.3
1	2-N	271[B]	GLU	5.3
1	3-N	271[C]	GLU	5.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-N	271[D]	GLU	5.3
1	1-O	23[A]	TYR	5.3
1	2-O	23[B]	TYR	5.3
1	3-O	23[C]	TYR	5.3
1	4-O	23[D]	TYR	5.3
1	1-J	224[A]	VAL	5.2
1	2-J	224[B]	VAL	5.2
1	3-J	224[C]	VAL	5.2
1	4-J	224[D]	VAL	5.2
1	1-L	288[A]	GLU	5.2
1	1-O	271[A]	GLU	5.2
1	2-L	288[B]	GLU	5.2
1	2-O	271[B]	GLU	5.2
1	3-L	288[C]	GLU	5.2
1	3-O	271[C]	GLU	5.2
1	4-L	288[D]	GLU	5.2
1	4-O	271[D]	GLU	5.2
1	1-N	260[A]	ARG	5.2
1	2-N	260[B]	ARG	5.2
1	3-N	260[C]	ARG	5.2
1	4-N	260[D]	ARG	5.2
1	1-L	142[A]	ASP	5.2
1	2-L	142[B]	ASP	5.2
1	3-L	142[C]	ASP	5.2
1	4-L	142[D]	ASP	5.2
1	1-L	213[A]	MET	5.2
1	1-N	245[A]	GLU	5.2
1	2-L	213[B]	MET	5.2
1	2-N	245[B]	GLU	5.2
1	3-L	213[C]	MET	5.2
1	3-N	245[C]	GLU	5.2
1	4-L	213[D]	MET	5.2
1	4-N	245[D]	GLU	5.2
1	1-O	284[A]	ARG	5.2
1	2-O	284[B]	ARG	5.2
1	3-O	284[C]	ARG	5.2
1	4-O	284[D]	ARG	5.2
1	1-K	52[A]	PRO	5.2
1	1-L	52[A]	PRO	5.2
1	2-K	52[B]	PRO	5.2
1	2-L	52[B]	PRO	5.2
1	3-K	52[C]	PRO	5.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-L	52[C]	PRO	5.2
1	4-K	52[D]	PRO	5.2
1	4-L	52[D]	PRO	5.2
1	1-K	32[A]	ASN	5.2
1	2-K	32[B]	ASN	5.2
1	3-K	32[C]	ASN	5.2
1	4-K	32[D]	ASN	5.2
1	1-J	229[A]	ALA	5.2
1	1-M	50[A]	ALA	5.2
1	2-J	229[B]	ALA	5.2
1	2-M	50[B]	ALA	5.2
1	3-J	229[C]	ALA	5.2
1	3-M	50[C]	ALA	5.2
1	4-J	229[D]	ALA	5.2
1	4-M	50[D]	ALA	5.2
1	1-I	290[A]	GLY	5.2
1	2-I	290[B]	GLY	5.2
1	3-I	290[C]	GLY	5.2
1	4-I	290[D]	GLY	5.2
1	1-K	176[A]	PRO	5.2
1	1-N	277[A]	PHE	5.2
1	1-P	277[A]	PHE	5.2
1	2-K	176[B]	PRO	5.2
1	2-N	277[B]	PHE	5.2
1	2-P	277[B]	PHE	5.2
1	3-K	176[C]	PRO	5.2
1	3-N	277[C]	PHE	5.2
1	3-P	277[C]	PHE	5.2
1	4-K	176[D]	PRO	5.2
1	4-N	277[D]	PHE	5.2
1	4-P	277[D]	PHE	5.2
1	1-I	276[A]	ASP	5.2
1	1-P	82[A]	TRP	5.2
1	2-I	276[B]	ASP	5.2
1	2-P	82[B]	TRP	5.2
1	3-I	276[C]	ASP	5.2
1	3-P	82[C]	TRP	5.2
1	4-I	276[D]	ASP	5.2
1	4-P	82[D]	TRP	5.2
1	1-O	298[A]	GLU	5.2
1	2-O	298[B]	GLU	5.2
1	3-O	298[C]	GLU	5.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-O	298[D]	GLU	5.2
1	1-L	294[A]	GLY	5.2
1	2-L	294[B]	GLY	5.2
1	3-L	294[C]	GLY	5.2
1	4-L	294[D]	GLY	5.2
1	1-C	110[A]	LEU	5.2
1	2-C	110[B]	LEU	5.2
1	3-C	110[C]	LEU	5.2
1	4-C	110[D]	LEU	5.2
1	1-I	60[A]	ASP	5.2
1	2-I	60[B]	ASP	5.2
1	3-I	60[C]	ASP	5.2
1	4-I	60[D]	ASP	5.2
1	1-K	120[A]	GLU	5.2
1	2-K	120[B]	GLU	5.2
1	3-K	120[C]	GLU	5.2
1	4-K	120[D]	GLU	5.2
1	1-J	82[A]	TRP	5.2
1	1-N	160[A]	ILE	5.2
1	1-P	30[A]	ILE	5.2
1	2-J	82[B]	TRP	5.2
1	2-N	160[B]	ILE	5.2
1	2-P	30[B]	ILE	5.2
1	3-J	82[C]	TRP	5.2
1	3-N	160[C]	ILE	5.2
1	3-P	30[C]	ILE	5.2
1	4-J	82[D]	TRP	5.2
1	4-N	160[D]	ILE	5.2
1	4-P	30[D]	ILE	5.2
1	1-L	28[A]	ARG	5.2
1	1-O	167[A]	ARG	5.2
1	1-P	132[A]	ARG	5.2
1	2-L	28[B]	ARG	5.2
1	2-O	167[B]	ARG	5.2
1	2-P	132[B]	ARG	5.2
1	3-L	28[C]	ARG	5.2
1	3-O	167[C]	ARG	5.2
1	3-P	132[C]	ARG	5.2
1	4-L	28[D]	ARG	5.2
1	4-O	167[D]	ARG	5.2
1	4-P	132[D]	ARG	5.2
1	1-G	202[A]	SER	5.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-J	41[A]	THR	5.2
1	2-G	202[B]	SER	5.2
1	2-J	41[B]	THR	5.2
1	3-G	202[C]	SER	5.2
1	3-J	41[C]	THR	5.2
1	4-G	202[D]	SER	5.2
1	4-J	41[D]	THR	5.2
1	1-H	204[A]	GLY	5.2
1	1-J	90[A]	ALA	5.2
1	2-H	204[B]	GLY	5.2
1	2-J	90[B]	ALA	5.2
1	3-H	204[C]	GLY	5.2
1	3-J	90[C]	ALA	5.2
1	4-H	204[D]	GLY	5.2
1	4-J	90[D]	ALA	5.2
1	1-I	189[A]	MET	5.2
1	2-I	189[B]	MET	5.2
1	3-I	189[C]	MET	5.2
1	4-I	189[D]	MET	5.2
1	1-I	125[A]	PRO	5.2
1	1-L	248[A]	GLU	5.2
1	2-I	125[B]	PRO	5.2
1	1-O	130[A]	GLN	5.2
1	1-P	130[A]	GLN	5.2
1	2-L	248[B]	GLU	5.2
1	3-I	125[C]	PRO	5.2
1	3-L	248[C]	GLU	5.2
1	4-I	125[D]	PRO	5.2
1	2-O	130[B]	GLN	5.2
1	2-P	130[B]	GLN	5.2
1	3-O	130[C]	GLN	5.2
1	3-P	130[C]	GLN	5.2
1	4-L	248[D]	GLU	5.2
1	4-O	130[D]	GLN	5.2
1	4-P	130[D]	GLN	5.2
1	1-M	109[A]	PHE	5.2
1	1-O	193[A]	PHE	5.2
1	2-M	109[B]	PHE	5.2
1	2-O	193[B]	PHE	5.2
1	3-M	109[C]	PHE	5.2
1	3-O	193[C]	PHE	5.2
1	4-M	109[D]	PHE	5.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-O	193[D]	PHE	5.2
1	1-N	87[A]	CYS	5.2
1	2-N	87[B]	CYS	5.2
1	3-N	87[C]	CYS	5.2
1	4-N	87[D]	CYS	5.2
1	1-K	177[A]	LYS	5.2
1	1-O	29[A]	ARG	5.2
1	2-K	177[B]	LYS	5.2
1	2-O	29[B]	ARG	5.2
1	3-K	177[C]	LYS	5.2
1	3-O	29[C]	ARG	5.2
1	4-K	177[D]	LYS	5.2
1	4-O	29[D]	ARG	5.2
1	1-M	18[A]	HIS	5.2
1	1-M	133[A]	HIS	5.2
1	2-M	18[B]	HIS	5.2
1	2-M	133[B]	HIS	5.2
1	3-M	18[C]	HIS	5.2
1	3-M	133[C]	HIS	5.2
1	4-M	18[D]	HIS	5.2
1	4-M	133[D]	HIS	5.2
1	1-L	230[A]	SER	5.2
1	2-L	230[B]	SER	5.2
1	3-L	230[C]	SER	5.2
1	4-L	230[D]	SER	5.2
1	1-L	82[A]	TRP	5.1
1	2-L	82[B]	TRP	5.1
1	3-L	82[C]	TRP	5.1
1	4-L	82[D]	TRP	5.1
1	1-E	199[A]	PRO	5.1
1	1-I	199[A]	PRO	5.1
1	2-E	199[B]	PRO	5.1
1	2-I	199[B]	PRO	5.1
1	3-E	199[C]	PRO	5.1
1	3-I	199[C]	PRO	5.1
1	4-E	199[D]	PRO	5.1
1	4-I	199[D]	PRO	5.1
1	1-K	66[A]	LEU	5.1
1	1-O	266[A]	LEU	5.1
1	2-K	66[B]	LEU	5.1
1	2-O	266[B]	LEU	5.1
1	3-K	66[C]	LEU	5.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-O	266[C]	LEU	5.1
1	4-K	66[D]	LEU	5.1
1	4-O	266[D]	LEU	5.1
1	1-I	137[A]	GLU	5.1
1	2-I	137[B]	GLU	5.1
1	3-I	137[C]	GLU	5.1
1	4-I	137[D]	GLU	5.1
1	1-M	42[A]	GLY	5.1
1	2-M	42[B]	GLY	5.1
1	3-M	42[C]	GLY	5.1
1	4-M	42[D]	GLY	5.1
1	1-P	22[A]	GLN	5.1
1	2-P	22[B]	GLN	5.1
1	3-P	22[C]	GLN	5.1
1	4-P	22[D]	GLN	5.1
1	1-J	271[A]	GLU	5.1
1	1-O	87[A]	CYS	5.1
1	2-J	271[B]	GLU	5.1
1	2-O	87[B]	CYS	5.1
1	3-J	271[C]	GLU	5.1
1	3-O	87[C]	CYS	5.1
1	4-J	271[D]	GLU	5.1
1	4-O	87[D]	CYS	5.1
1	1-I	146[A]	LYS	5.1
1	2-I	146[B]	LYS	5.1
1	3-I	146[C]	LYS	5.1
1	4-I	146[D]	LYS	5.1
1	1-I	74[A]	ARG	5.1
1	1-J	275[A]	ARG	5.1
1	2-I	74[B]	ARG	5.1
1	2-J	275[B]	ARG	5.1
1	3-I	74[C]	ARG	5.1
1	3-J	275[C]	ARG	5.1
1	4-I	74[D]	ARG	5.1
1	4-J	275[D]	ARG	5.1
1	1-M	35[A]	GLU	5.1
1	2-M	35[B]	GLU	5.1
1	3-M	35[C]	GLU	5.1
1	4-M	35[D]	GLU	5.1
1	1-O	177[A]	LYS	5.1
1	2-O	177[B]	LYS	5.1
1	3-O	177[C]	LYS	5.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-O	177[D]	LYS	5.1
1	1-J	29[A]	ARG	5.1
1	1-K	94[A]	SER	5.1
1	2-J	29[B]	ARG	5.1
1	2-K	94[B]	SER	5.1
1	3-J	29[C]	ARG	5.1
1	3-K	94[C]	SER	5.1
1	4-J	29[D]	ARG	5.1
1	4-K	94[D]	SER	5.1
1	1-A	111[A]	GLU	5.1
1	1-M	129[A]	PHE	5.1
1	2-A	111[B]	GLU	5.1
1	2-M	129[B]	PHE	5.1
1	3-A	111[C]	GLU	5.1
1	3-M	129[C]	PHE	5.1
1	4-A	111[D]	GLU	5.1
1	4-M	129[D]	PHE	5.1
1	1-N	23[A]	TYR	5.1
1	2-N	23[B]	TYR	5.1
1	3-N	23[C]	TYR	5.1
1	4-N	23[D]	TYR	5.1
1	1-N	306[A]	LYS	5.1
1	1-O	267[A]	LYS	5.1
1	2-N	306[B]	LYS	5.1
1	2-O	267[B]	LYS	5.1
1	3-N	306[C]	LYS	5.1
1	3-O	267[C]	LYS	5.1
1	4-N	306[D]	LYS	5.1
1	4-O	267[D]	LYS	5.1
1	1-F	271[A]	GLU	5.1
1	2-F	271[B]	GLU	5.1
1	3-F	271[C]	GLU	5.1
1	4-F	271[D]	GLU	5.1
1	1-K	110[A]	LEU	5.1
1	1-N	164[A]	PRO	5.1
1	2-K	110[B]	LEU	5.1
1	2-N	164[B]	PRO	5.1
1	3-K	110[C]	LEU	5.1
1	3-N	164[C]	PRO	5.1
1	4-K	110[D]	LEU	5.1
1	4-N	164[D]	PRO	5.1
1	1-I	190[A]	PHE	5.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-L	107[A]	LYS	5.1
1	1-P	291[A]	ASP	5.1
1	2-I	190[B]	PHE	5.1
1	2-L	107[B]	LYS	5.1
1	2-P	291[B]	ASP	5.1
1	3-I	190[C]	PHE	5.1
1	3-L	107[C]	LYS	5.1
1	3-P	291[C]	ASP	5.1
1	4-I	190[D]	PHE	5.1
1	4-L	107[D]	LYS	5.1
1	4-P	291[D]	ASP	5.1
1	1-P	96[A]	GLN	5.1
1	2-P	96[B]	GLN	5.1
1	3-P	96[C]	GLN	5.1
1	4-P	96[D]	GLN	5.1
1	1-K	28[A]	ARG	5.1
1	2-K	28[B]	ARG	5.1
1	3-K	28[C]	ARG	5.1
1	4-K	28[D]	ARG	5.1
1	1-L	148[A]	LYS	5.1
1	2-L	148[B]	LYS	5.1
1	3-L	148[C]	LYS	5.1
1	4-L	148[D]	LYS	5.1
1	1-I	233[A]	LEU	5.1
1	1-P	222[A]	LEU	5.1
1	2-I	233[B]	LEU	5.1
1	2-P	222[B]	LEU	5.1
1	3-I	233[C]	LEU	5.1
1	3-P	222[C]	LEU	5.1
1	4-I	233[D]	LEU	5.1
1	4-P	222[D]	LEU	5.1
1	1-I	133[A]	HIS	5.1
1	1-M	22[A]	GLN	5.1
1	2-I	133[B]	HIS	5.1
1	2-M	22[B]	GLN	5.1
1	3-I	133[C]	HIS	5.1
1	3-M	22[C]	GLN	5.1
1	4-I	133[D]	HIS	5.1
1	4-M	22[D]	GLN	5.1
1	1-J	258[A]	VAL	5.1
1	2-J	258[B]	VAL	5.1
1	3-J	258[C]	VAL	5.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-J	258[D]	VAL	5.1
1	1-N	229[A]	ALA	5.1
1	1-O	317[A]	ALA	5.1
1	2-N	229[B]	ALA	5.1
1	2-O	317[B]	ALA	5.1
1	3-N	229[C]	ALA	5.1
1	3-O	317[C]	ALA	5.1
1	4-N	229[D]	ALA	5.1
1	4-O	317[D]	ALA	5.1
1	1-H	160[A]	ILE	5.1
1	1-P	217[A]	SER	5.1
1	2-H	160[B]	ILE	5.1
1	2-P	217[B]	SER	5.1
1	3-H	160[C]	ILE	5.1
1	3-P	217[C]	SER	5.1
1	4-H	160[D]	ILE	5.1
1	4-P	217[D]	SER	5.1
1	1-M	178[A]	ASP	5.0
1	2-M	178[B]	ASP	5.0
1	3-M	178[C]	ASP	5.0
1	4-M	178[D]	ASP	5.0
1	1-J	154[A]	GLN	5.0
1	2-J	154[B]	GLN	5.0
1	3-J	154[C]	GLN	5.0
1	4-J	154[D]	GLN	5.0
1	1-J	266[A]	LEU	5.0
1	1-M	220[A]	LEU	5.0
1	1-N	62[A]	THR	5.0
1	2-J	266[B]	LEU	5.0
1	2-M	220[B]	LEU	5.0
1	2-N	62[B]	THR	5.0
1	3-J	266[C]	LEU	5.0
1	3-M	220[C]	LEU	5.0
1	3-N	62[C]	THR	5.0
1	4-J	266[D]	LEU	5.0
1	4-M	220[D]	LEU	5.0
1	4-N	62[D]	THR	5.0
1	1-K	147[A]	GLY	5.0
1	1-K	281[A]	LYS	5.0
1	2-K	147[B]	GLY	5.0
1	2-K	281[B]	LYS	5.0
1	3-K	147[C]	GLY	5.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-K	281[C]	LYS	5.0
1	4-K	147[D]	GLY	5.0
1	4-K	281[D]	LYS	5.0
1	1-M	175[A]	ASN	5.0
1	1-O	162[A]	ASN	5.0
1	2-M	175[B]	ASN	5.0
1	2-O	162[B]	ASN	5.0
1	3-M	175[C]	ASN	5.0
1	3-O	162[C]	ASN	5.0
1	4-M	175[D]	ASN	5.0
1	4-O	162[D]	ASN	5.0
1	1-N	148[A]	LYS	5.0
1	2-N	148[B]	LYS	5.0
1	3-N	148[C]	LYS	5.0
1	4-N	148[D]	LYS	5.0
1	1-J	67[A]	THR	5.0
1	2-J	67[B]	THR	5.0
1	3-J	67[C]	THR	5.0
1	4-J	67[D]	THR	5.0
1	1-D	270[A]	LEU	5.0
1	1-O	209[A]	LEU	5.0
1	2-D	270[B]	LEU	5.0
1	2-O	209[B]	LEU	5.0
1	3-D	270[C]	LEU	5.0
1	3-O	209[C]	LEU	5.0
1	4-D	270[D]	LEU	5.0
1	4-O	209[D]	LEU	5.0
1	1-I	192[A]	GLN	5.0
1	1-K	227[A]	ASN	5.0
1	1-P	109[A]	PHE	5.0
1	2-I	192[B]	GLN	5.0
1	2-K	227[B]	ASN	5.0
1	2-P	109[B]	PHE	5.0
1	3-I	192[C]	GLN	5.0
1	3-K	227[C]	ASN	5.0
1	3-P	109[C]	PHE	5.0
1	4-I	192[D]	GLN	5.0
1	4-K	227[D]	ASN	5.0
1	4-P	109[D]	PHE	5.0
1	1-D	243[A]	ASP	5.0
1	1-E	111[A]	GLU	5.0
1	1-J	114[A]	GLY	5.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-N	143[A]	GLY	5.0
1	2-D	243[B]	ASP	5.0
1	2-E	111[B]	GLU	5.0
1	2-J	114[B]	GLY	5.0
1	2-N	143[B]	GLY	5.0
1	3-D	243[C]	ASP	5.0
1	3-E	111[C]	GLU	5.0
1	3-J	114[C]	GLY	5.0
1	3-N	143[C]	GLY	5.0
1	4-D	243[D]	ASP	5.0
1	4-E	111[D]	GLU	5.0
1	4-J	114[D]	GLY	5.0
1	4-N	143[D]	GLY	5.0
1	1-O	40[A]	ARG	5.0
1	1-O	269[A]	GLN	5.0
1	2-O	40[B]	ARG	5.0
1	2-O	269[B]	GLN	5.0
1	3-O	40[C]	ARG	5.0
1	3-O	269[C]	GLN	5.0
1	4-O	40[D]	ARG	5.0
1	4-O	269[D]	GLN	5.0
1	1-L	297[A]	VAL	5.0
1	1-O	302[A]	VAL	5.0
1	2-L	297[B]	VAL	5.0
1	2-O	302[B]	VAL	5.0
1	3-L	297[C]	VAL	5.0
1	3-O	302[C]	VAL	5.0
1	4-L	297[D]	VAL	5.0
1	4-O	302[D]	VAL	5.0
1	1-I	107[A]	LYS	5.0
1	2-I	107[B]	LYS	5.0
1	3-I	107[C]	LYS	5.0
1	4-I	107[D]	LYS	5.0
1	1-H	197[A]	LEU	5.0
1	2-H	197[B]	LEU	5.0
1	3-H	197[C]	LEU	5.0
1	4-H	197[D]	LEU	5.0
1	1-F	201[A]	ASP	5.0
1	1-N	313[A]	MET	5.0
1	1-P	150[A]	VAL	5.0
1	2-F	201[B]	ASP	5.0
1	2-N	313[B]	MET	5.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-P	150[B]	VAL	5.0
1	3-F	201[C]	ASP	5.0
1	3-N	313[C]	MET	5.0
1	3-P	150[C]	VAL	5.0
1	4-F	201[D]	ASP	5.0
1	4-N	313[D]	MET	5.0
1	4-P	150[D]	VAL	5.0
1	1-O	303[A]	GLU	5.0
1	2-O	303[B]	GLU	5.0
1	3-O	303[C]	GLU	5.0
1	4-O	303[D]	GLU	5.0
1	1-J	140[A]	ASP	4.9
1	2-J	140[B]	ASP	4.9
1	3-J	140[C]	ASP	4.9
1	4-J	140[D]	ASP	4.9
1	1-N	104[A]	ASN	4.9
1	1-N	175[A]	ASN	4.9
1	2-N	104[B]	ASN	4.9
1	2-N	175[B]	ASN	4.9
1	3-N	104[C]	ASN	4.9
1	3-N	175[C]	ASN	4.9
1	4-N	104[D]	ASN	4.9
1	4-N	175[D]	ASN	4.9
1	1-H	205[A]	SER	4.9
1	2-H	205[B]	SER	4.9
1	3-H	205[C]	SER	4.9
1	4-H	205[D]	SER	4.9
1	1-J	276[A]	ASP	4.9
1	1-L	17[A]	ASP	4.9
1	2-J	276[B]	ASP	4.9
1	2-L	17[B]	ASP	4.9
1	3-J	276[C]	ASP	4.9
1	3-L	17[C]	ASP	4.9
1	4-J	276[D]	ASP	4.9
1	4-L	17[D]	ASP	4.9
1	1-I	135[A]	GLY	4.9
1	2-I	135[B]	GLY	4.9
1	3-I	135[C]	GLY	4.9
1	4-I	135[D]	GLY	4.9
1	1-L	150[A]	VAL	4.9
1	1-L	274[A]	PRO	4.9
1	1-M	180[A]	PRO	4.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-L	150[B]	VAL	4.9
1	2-L	274[B]	PRO	4.9
1	2-M	180[B]	PRO	4.9
1	3-L	150[C]	VAL	4.9
1	3-L	274[C]	PRO	4.9
1	3-M	180[C]	PRO	4.9
1	4-L	150[D]	VAL	4.9
1	4-L	274[D]	PRO	4.9
1	4-M	180[D]	PRO	4.9
1	1-J	127[A]	TYR	4.9
1	1-O	272[A]	ARG	4.9
1	2-J	127[B]	TYR	4.9
1	2-O	272[B]	ARG	4.9
1	3-J	127[C]	TYR	4.9
1	3-O	272[C]	ARG	4.9
1	4-J	127[D]	TYR	4.9
1	4-O	272[D]	ARG	4.9
1	1-N	303[A]	GLU	4.9
1	2-N	303[B]	GLU	4.9
1	3-N	303[C]	GLU	4.9
1	4-N	303[D]	GLU	4.9
1	1-M	286[A]	LYS	4.9
1	1-N	307[A]	PRO	4.9
1	1-O	164[A]	PRO	4.9
1	2-M	286[B]	LYS	4.9
1	2-N	307[B]	PRO	4.9
1	2-O	164[B]	PRO	4.9
1	3-M	286[C]	LYS	4.9
1	3-N	307[C]	PRO	4.9
1	3-O	164[C]	PRO	4.9
1	4-M	286[D]	LYS	4.9
1	4-N	307[D]	PRO	4.9
1	4-O	164[D]	PRO	4.9
1	1-I	230[A]	SER	4.9
1	1-L	144[A]	ASP	4.9
1	2-I	230[B]	SER	4.9
1	1-N	98[A]	VAL	4.9
1	2-L	144[B]	ASP	4.9
1	3-I	230[C]	SER	4.9
1	3-L	144[C]	ASP	4.9
1	4-I	230[D]	SER	4.9
1	2-N	98[B]	VAL	4.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-N	98[C]	VAL	4.9
1	4-L	144[D]	ASP	4.9
1	4-N	98[D]	VAL	4.9
1	1-J	227[A]	ASN	4.9
1	2-J	227[B]	ASN	4.9
1	3-J	227[C]	ASN	4.9
1	4-J	227[D]	ASN	4.9
1	1-P	209[A]	LEU	4.9
1	2-P	209[B]	LEU	4.9
1	3-P	209[C]	LEU	4.9
1	4-P	209[D]	LEU	4.9
1	1-I	90[A]	ALA	4.9
1	2-I	90[B]	ALA	4.9
1	3-I	90[C]	ALA	4.9
1	4-I	90[D]	ALA	4.9
1	1-L	72[A]	PHE	4.9
1	1-L	278[A]	PRO	4.9
1	1-M	119[A]	ARG	4.9
1	2-L	72[B]	PHE	4.9
1	2-L	278[B]	PRO	4.9
1	2-M	119[B]	ARG	4.9
1	3-L	72[C]	PHE	4.9
1	3-L	278[C]	PRO	4.9
1	3-M	119[C]	ARG	4.9
1	4-L	72[D]	PHE	4.9
1	4-L	278[D]	PRO	4.9
1	4-M	119[D]	ARG	4.9
1	1-J	192[A]	GLN	4.9
1	2-J	192[B]	GLN	4.9
1	3-J	192[C]	GLN	4.9
1	4-J	192[D]	GLN	4.9
1	1-J	126[A]	VAL	4.9
1	2-J	126[B]	VAL	4.9
1	3-J	126[C]	VAL	4.9
1	4-J	126[D]	VAL	4.9
1	1-O	175[A]	ASN	4.9
1	2-O	175[B]	ASN	4.9
1	3-O	175[C]	ASN	4.9
1	4-O	175[D]	ASN	4.9
1	1-J	182[A]	MET	4.9
1	2-J	182[B]	MET	4.9
1	3-J	182[C]	MET	4.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-J	182[D]	MET	4.9
1	1-O	222[A]	LEU	4.9
1	2-O	222[B]	LEU	4.9
1	3-O	222[C]	LEU	4.9
1	4-O	222[D]	LEU	4.9
1	1-K	137[A]	GLU	4.9
1	1-L	56[A]	PHE	4.9
1	2-K	137[B]	GLU	4.9
1	2-L	56[B]	PHE	4.9
1	3-K	137[C]	GLU	4.9
1	3-L	56[C]	PHE	4.9
1	4-K	137[D]	GLU	4.9
1	4-L	56[D]	PHE	4.9
1	1-M	244[A]	THR	4.9
1	2-M	244[B]	THR	4.9
1	3-M	244[C]	THR	4.9
1	4-M	244[D]	THR	4.9
1	1-I	281[A]	LYS	4.9
1	2-I	281[B]	LYS	4.9
1	3-I	281[C]	LYS	4.9
1	4-I	281[D]	LYS	4.9
1	1-M	198[A]	PRO	4.9
1	2-M	198[B]	PRO	4.9
1	3-M	198[C]	PRO	4.9
1	4-M	198[D]	PRO	4.9
1	1-L	184[A]	LEU	4.9
1	2-L	184[B]	LEU	4.9
1	3-L	184[C]	LEU	4.9
1	4-L	184[D]	LEU	4.9
1	1-O	261[A]	ASP	4.8
1	2-O	261[B]	ASP	4.8
1	3-O	261[C]	ASP	4.8
1	4-O	261[D]	ASP	4.8
1	1-L	106[A]	SER	4.8
1	1-N	53[A]	SER	4.8
1	2-L	106[B]	SER	4.8
1	2-N	53[B]	SER	4.8
1	3-L	106[C]	SER	4.8
1	3-N	53[C]	SER	4.8
1	4-L	106[D]	SER	4.8
1	4-N	53[D]	SER	4.8
1	1-N	270[A]	LEU	4.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-N	270[B]	LEU	4.8
1	3-N	270[C]	LEU	4.8
1	4-N	270[D]	LEU	4.8
1	1-L	295[A]	PHE	4.8
1	2-L	295[B]	PHE	4.8
1	3-L	295[C]	PHE	4.8
1	4-L	295[D]	PHE	4.8
1	1-B	198[A]	PRO	4.8
1	1-O	186[A]	PRO	4.8
1	2-B	198[B]	PRO	4.8
1	2-O	186[B]	PRO	4.8
1	3-B	198[C]	PRO	4.8
1	3-O	186[C]	PRO	4.8
1	4-B	198[D]	PRO	4.8
1	4-O	186[D]	PRO	4.8
1	1-J	106[A]	SER	4.8
1	2-J	106[B]	SER	4.8
1	3-J	106[C]	SER	4.8
1	4-J	106[D]	SER	4.8
1	1-N	231[A]	TYR	4.8
1	1-P	282[A]	TRP	4.8
1	2-N	231[B]	TYR	4.8
1	2-P	282[B]	TRP	4.8
1	3-N	231[C]	TYR	4.8
1	3-P	282[C]	TRP	4.8
1	4-N	231[D]	TYR	4.8
1	4-P	282[D]	TRP	4.8
1	1-M	125[A]	PRO	4.8
1	2-M	125[B]	PRO	4.8
1	3-M	125[C]	PRO	4.8
1	4-M	125[D]	PRO	4.8
1	1-J	262[A]	HIS	4.8
1	1-O	262[A]	HIS	4.8
1	2-J	262[B]	HIS	4.8
1	2-O	262[B]	HIS	4.8
1	3-J	262[C]	HIS	4.8
1	3-O	262[C]	HIS	4.8
1	4-J	262[D]	HIS	4.8
1	4-O	262[D]	HIS	4.8
1	1-K	84[A]	VAL	4.8
1	2-K	84[B]	VAL	4.8
1	3-K	84[C]	VAL	4.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-K	84[D]	VAL	4.8
1	1-O	111[A]	GLU	4.8
1	2-O	111[B]	GLU	4.8
1	3-O	111[C]	GLU	4.8
1	4-O	111[D]	GLU	4.8
1	1-A	90[A]	ALA	4.8
1	2-A	90[B]	ALA	4.8
1	3-A	90[C]	ALA	4.8
1	4-A	90[D]	ALA	4.8
1	1-N	212[A]	LEU	4.8
1	2-N	212[B]	LEU	4.8
1	3-N	212[C]	LEU	4.8
1	4-N	212[D]	LEU	4.8
1	1-M	245[A]	GLU	4.8
1	2-M	245[B]	GLU	4.8
1	3-M	245[C]	GLU	4.8
1	4-M	245[D]	GLU	4.8
1	1-J	151[A]	ASP	4.8
1	1-N	267[A]	LYS	4.8
1	2-J	151[B]	ASP	4.8
1	2-N	267[B]	LYS	4.8
1	3-J	151[C]	ASP	4.8
1	3-N	267[C]	LYS	4.8
1	4-J	151[D]	ASP	4.8
1	4-N	267[D]	LYS	4.8
1	1-I	183[A]	ALA	4.8
1	1-O	128[A]	GLY	4.8
1	2-I	183[B]	ALA	4.8
1	2-O	128[B]	GLY	4.8
1	3-I	183[C]	ALA	4.8
1	3-O	128[C]	GLY	4.8
1	4-I	183[D]	ALA	4.8
1	4-O	128[D]	GLY	4.8
1	1-P	153[A]	LEU	4.8
1	2-P	153[B]	LEU	4.8
1	3-P	153[C]	LEU	4.8
1	4-P	153[D]	LEU	4.8
1	1-L	243[A]	ASP	4.8
1	2-L	243[B]	ASP	4.8
1	3-L	243[C]	ASP	4.8
1	4-L	243[D]	ASP	4.8
1	1-D	61[A]	ASN	4.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-D	61[B]	ASN	4.8
1	3-D	61[C]	ASN	4.8
1	4-D	61[D]	ASN	4.8
1	1-K	121[A]	GLY	4.8
1	2-K	121[B]	GLY	4.8
1	3-K	121[C]	GLY	4.8
1	4-K	121[D]	GLY	4.8
1	1-I	207[A]	PRO	4.8
1	2-I	207[B]	PRO	4.8
1	3-I	207[C]	PRO	4.8
1	4-I	207[D]	PRO	4.8
1	1-L	245[A]	GLU	4.8
1	2-L	245[B]	GLU	4.8
1	3-L	245[C]	GLU	4.8
1	4-L	245[D]	GLU	4.8
1	1-N	173[A]	ALA	4.7
1	2-N	173[B]	ALA	4.7
1	3-N	173[C]	ALA	4.7
1	4-N	173[D]	ALA	4.7
1	1-I	26[A]	LEU	4.7
1	2-I	26[B]	LEU	4.7
1	3-I	26[C]	LEU	4.7
1	4-I	26[D]	LEU	4.7
1	1-J	172[A]	SER	4.7
1	2-J	172[B]	SER	4.7
1	3-J	172[C]	SER	4.7
1	4-J	172[D]	SER	4.7
1	1-M	141[A]	ALA	4.7
1	2-M	141[B]	ALA	4.7
1	3-M	141[C]	ALA	4.7
1	4-M	141[D]	ALA	4.7
1	1-P	39[A]	ASP	4.7
1	2-P	39[B]	ASP	4.7
1	3-P	39[C]	ASP	4.7
1	4-P	39[D]	ASP	4.7
1	1-J	130[A]	GLN	4.7
1	1-J	247[A]	HIS	4.7
1	1-N	236[A]	HIS	4.7
1	2-J	130[B]	GLN	4.7
1	2-J	247[B]	HIS	4.7
1	2-N	236[B]	HIS	4.7
1	3-J	130[C]	GLN	4.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-J	247[C]	HIS	4.7
1	3-N	236[C]	HIS	4.7
1	4-J	130[D]	GLN	4.7
1	4-J	247[D]	HIS	4.7
1	4-N	236[D]	HIS	4.7
1	1-I	264[A]	GLU	4.7
1	2-I	264[B]	GLU	4.7
1	3-I	264[C]	GLU	4.7
1	4-I	264[D]	GLU	4.7
1	1-C	260[A]	ARG	4.7
1	2-C	260[B]	ARG	4.7
1	3-C	260[C]	ARG	4.7
1	4-C	260[D]	ARG	4.7
1	1-E	200[A]	ALA	4.7
1	2-E	200[B]	ALA	4.7
1	3-E	200[C]	ALA	4.7
1	4-E	200[D]	ALA	4.7
1	1-E	36[A]	VAL	4.7
1	2-E	36[B]	VAL	4.7
1	3-E	36[C]	VAL	4.7
1	4-E	36[D]	VAL	4.7
1	1-K	280[A]	LEU	4.7
1	1-N	273[A]	GLU	4.7
1	1-P	144[A]	ASP	4.7
1	2-K	280[B]	LEU	4.7
1	2-N	273[B]	GLU	4.7
1	2-P	144[B]	ASP	4.7
1	3-K	280[C]	LEU	4.7
1	3-N	273[C]	GLU	4.7
1	3-P	144[C]	ASP	4.7
1	4-K	280[D]	LEU	4.7
1	4-N	273[D]	GLU	4.7
1	4-P	144[D]	ASP	4.7
1	1-P	23[A]	TYR	4.7
1	2-P	23[B]	TYR	4.7
1	3-P	23[C]	TYR	4.7
1	4-P	23[D]	TYR	4.7
1	1-K	274[A]	PRO	4.7
1	1-N	52[A]	PRO	4.7
1	2-K	274[B]	PRO	4.7
1	2-N	52[B]	PRO	4.7
1	3-K	274[C]	PRO	4.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-N	52[C]	PRO	4.7
1	4-K	274[D]	PRO	4.7
1	4-N	52[D]	PRO	4.7
1	1-J	315[A]	MET	4.7
1	2-J	315[B]	MET	4.7
1	3-J	315[C]	MET	4.7
1	4-J	315[D]	MET	4.7
1	1-K	96[A]	GLN	4.7
1	1-K	130[A]	GLN	4.7
1	2-K	96[B]	GLN	4.7
1	2-K	130[B]	GLN	4.7
1	3-K	96[C]	GLN	4.7
1	3-K	130[C]	GLN	4.7
1	4-K	96[D]	GLN	4.7
1	4-K	130[D]	GLN	4.7
1	1-K	155[A]	ARG	4.7
1	2-K	155[B]	ARG	4.7
1	3-K	155[C]	ARG	4.7
1	4-K	155[D]	ARG	4.7
1	1-L	226[A]	PHE	4.7
1	2-L	226[B]	PHE	4.7
1	3-L	226[C]	PHE	4.7
1	4-L	226[D]	PHE	4.7
1	1-A	315[A]	MET	4.7
1	1-G	111[A]	GLU	4.7
1	1-P	53[A]	SER	4.7
1	2-A	315[B]	MET	4.7
1	2-G	111[B]	GLU	4.7
1	2-P	53[B]	SER	4.7
1	3-A	315[C]	MET	4.7
1	3-G	111[C]	GLU	4.7
1	3-P	53[C]	SER	4.7
1	4-A	315[D]	MET	4.7
1	4-G	111[D]	GLU	4.7
1	4-P	53[D]	SER	4.7
1	1-I	136[A]	ALA	4.7
1	1-P	239[A]	ALA	4.7
1	2-I	136[B]	ALA	4.7
1	2-P	239[B]	ALA	4.7
1	3-I	136[C]	ALA	4.7
1	3-P	239[C]	ALA	4.7
1	4-I	136[D]	ALA	4.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-P	239[D]	ALA	4.7
1	1-L	198[A]	PRO	4.7
1	2-L	198[B]	PRO	4.7
1	3-L	198[C]	PRO	4.7
1	4-L	198[D]	PRO	4.7
1	1-M	181[A]	LEU	4.6
1	2-M	181[B]	LEU	4.6
1	3-M	181[C]	LEU	4.6
1	4-M	181[D]	LEU	4.6
1	1-J	149[A]	GLY	4.6
1	1-P	107[A]	LYS	4.6
1	2-J	149[B]	GLY	4.6
1	2-P	107[B]	LYS	4.6
1	3-J	149[C]	GLY	4.6
1	3-P	107[C]	LYS	4.6
1	4-J	149[D]	GLY	4.6
1	4-P	107[D]	LYS	4.6
1	1-J	248[A]	GLU	4.6
1	2-J	248[B]	GLU	4.6
1	3-J	248[C]	GLU	4.6
1	4-J	248[D]	GLU	4.6
1	1-P	66[A]	LEU	4.6
1	2-P	66[B]	LEU	4.6
1	3-P	66[C]	LEU	4.6
1	4-P	66[D]	LEU	4.6
1	1-A	14[A]	SER	4.6
1	1-K	315[A]	MET	4.6
1	2-A	14[B]	SER	4.6
1	2-K	315[B]	MET	4.6
1	3-A	14[C]	SER	4.6
1	3-K	315[C]	MET	4.6
1	4-A	14[D]	SER	4.6
1	4-K	315[D]	MET	4.6
1	1-K	228[A]	ILE	4.6
1	2-K	228[B]	ILE	4.6
1	3-K	228[C]	ILE	4.6
1	4-K	228[D]	ILE	4.6
1	1-F	203[A]	PRO	4.6
1	1-M	225[A]	PRO	4.6
1	1-P	136[A]	ALA	4.6
1	2-F	203[B]	PRO	4.6
1	2-M	225[B]	PRO	4.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-P	136[B]	ALA	4.6
1	3-F	203[C]	PRO	4.6
1	3-M	225[C]	PRO	4.6
1	3-P	136[C]	ALA	4.6
1	4-F	203[D]	PRO	4.6
1	4-M	225[D]	PRO	4.6
1	4-P	136[D]	ALA	4.6
1	1-O	91[A]	LYS	4.6
1	1-O	98[A]	VAL	4.6
1	2-O	91[B]	LYS	4.6
1	1-P	178[A]	ASP	4.6
1	2-O	98[B]	VAL	4.6
1	3-O	91[C]	LYS	4.6
1	3-O	98[C]	VAL	4.6
1	4-O	91[D]	LYS	4.6
1	2-P	178[B]	ASP	4.6
1	3-P	178[C]	ASP	4.6
1	4-O	98[D]	VAL	4.6
1	4-P	178[D]	ASP	4.6
1	1-B	197[A]	LEU	4.6
1	2-B	197[B]	LEU	4.6
1	3-B	197[C]	LEU	4.6
1	4-B	197[D]	LEU	4.6
1	1-P	78[A]	ALA	4.6
1	2-P	78[B]	ALA	4.6
1	3-P	78[C]	ALA	4.6
1	4-P	78[D]	ALA	4.6
1	1-J	86[A]	GLY	4.6
1	2-J	86[B]	GLY	4.6
1	3-J	86[C]	GLY	4.6
1	4-J	86[D]	GLY	4.6
1	1-J	83[A]	PHE	4.6
1	1-O	314[A]	LYS	4.6
1	2-J	83[B]	PHE	4.6
1	2-O	314[B]	LYS	4.6
1	3-J	83[C]	PHE	4.6
1	3-O	314[C]	LYS	4.6
1	4-J	83[D]	PHE	4.6
1	4-O	314[D]	LYS	4.6
1	1-P	278[A]	PRO	4.6
1	2-P	278[B]	PRO	4.6
1	3-P	278[C]	PRO	4.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-P	278[D]	PRO	4.6
1	1-N	22[A]	GLN	4.6
1	1-N	39[A]	ASP	4.6
1	1-P	256[A]	ALA	4.6
1	2-N	22[B]	GLN	4.6
1	2-N	39[B]	ASP	4.6
1	2-P	256[B]	ALA	4.6
1	3-N	22[C]	GLN	4.6
1	3-N	39[C]	ASP	4.6
1	3-P	256[C]	ALA	4.6
1	4-N	22[D]	GLN	4.6
1	4-N	39[D]	ASP	4.6
1	4-P	256[D]	ALA	4.6
1	1-J	99[A]	GLY	4.6
1	2-J	99[B]	GLY	4.6
1	3-J	99[C]	GLY	4.6
1	4-J	99[D]	GLY	4.6
1	1-K	91[A]	LYS	4.6
1	1-N	189[A]	MET	4.6
1	2-K	91[B]	LYS	4.6
1	2-N	189[B]	MET	4.6
1	3-K	91[C]	LYS	4.6
1	3-N	189[C]	MET	4.6
1	4-K	91[D]	LYS	4.6
1	4-N	189[D]	MET	4.6
1	1-P	81[A]	LEU	4.6
1	2-P	81[B]	LEU	4.6
1	3-P	81[C]	LEU	4.6
1	4-P	81[D]	LEU	4.6
1	1-F	307[A]	PRO	4.6
1	2-F	307[B]	PRO	4.6
1	3-F	307[C]	PRO	4.6
1	4-F	307[D]	PRO	4.6
1	1-I	178[A]	ASP	4.6
1	2-I	178[B]	ASP	4.6
1	3-I	178[C]	ASP	4.6
1	4-I	178[D]	ASP	4.6
1	1-A	141[A]	ALA	4.6
1	1-O	229[A]	ALA	4.6
1	2-A	141[B]	ALA	4.6
1	2-O	229[B]	ALA	4.6
1	3-A	141[C]	ALA	4.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-O	229[C]	ALA	4.6
1	4-A	141[D]	ALA	4.6
1	4-O	229[D]	ALA	4.6
1	1-E	202[A]	SER	4.6
1	2-E	202[B]	SER	4.6
1	3-E	202[C]	SER	4.6
1	4-E	202[D]	SER	4.6
1	1-K	178[A]	ASP	4.6
1	1-N	262[A]	HIS	4.6
1	1-N	263[A]	VAL	4.6
1	2-K	178[B]	ASP	4.6
1	2-N	262[B]	HIS	4.6
1	2-N	263[B]	VAL	4.6
1	3-K	178[C]	ASP	4.6
1	3-N	262[C]	HIS	4.6
1	3-N	263[C]	VAL	4.6
1	4-K	178[D]	ASP	4.6
1	4-N	262[D]	HIS	4.6
1	4-N	263[D]	VAL	4.6
1	1-L	81[A]	LEU	4.6
1	1-L	163[A]	ASN	4.6
1	1-M	29[A]	ARG	4.6
1	2-M	29[B]	ARG	4.6
1	1-P	123[A]	LEU	4.6
1	2-L	81[B]	LEU	4.6
1	2-L	163[B]	ASN	4.6
1	3-L	163[C]	ASN	4.6
1	3-M	29[C]	ARG	4.6
1	4-L	163[D]	ASN	4.6
1	4-M	29[D]	ARG	4.6
1	2-P	123[B]	LEU	4.6
1	3-L	81[C]	LEU	4.6
1	3-P	123[C]	LEU	4.6
1	4-L	81[D]	LEU	4.6
1	4-P	123[D]	LEU	4.6
1	1-C	42[A]	GLY	4.5
1	2-C	42[B]	GLY	4.5
1	3-C	42[C]	GLY	4.5
1	4-C	42[D]	GLY	4.5
1	1-B	14[A]	SER	4.5
1	2-B	14[B]	SER	4.5
1	3-B	14[C]	SER	4.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-B	14[D]	SER	4.5
1	1-C	201[A]	ASP	4.5
1	1-I	182[A]	MET	4.5
1	1-J	237[A]	MET	4.5
1	2-C	201[B]	ASP	4.5
1	2-I	182[B]	MET	4.5
1	2-J	237[B]	MET	4.5
1	3-C	201[C]	ASP	4.5
1	3-I	182[C]	MET	4.5
1	3-J	237[C]	MET	4.5
1	4-C	201[D]	ASP	4.5
1	4-I	182[D]	MET	4.5
1	4-J	237[D]	MET	4.5
1	1-M	298[A]	GLU	4.5
1	2-M	298[B]	GLU	4.5
1	3-M	298[C]	GLU	4.5
1	4-M	298[D]	GLU	4.5
1	1-J	267[A]	LYS	4.5
1	2-J	267[B]	LYS	4.5
1	3-J	267[C]	LYS	4.5
1	4-J	267[D]	LYS	4.5
1	1-O	226[A]	PHE	4.5
1	2-O	226[B]	PHE	4.5
1	3-O	226[C]	PHE	4.5
1	4-O	226[D]	PHE	4.5
1	1-O	75[A]	GLY	4.5
1	2-O	75[B]	GLY	4.5
1	3-O	75[C]	GLY	4.5
1	4-O	75[D]	GLY	4.5
1	1-P	60[A]	ASP	4.5
1	2-P	60[B]	ASP	4.5
1	3-P	60[C]	ASP	4.5
1	4-P	60[D]	ASP	4.5
1	1-K	67[A]	THR	4.5
1	2-K	67[B]	THR	4.5
1	3-K	67[C]	THR	4.5
1	4-K	67[D]	THR	4.5
1	1-M	73[A]	LEU	4.5
1	2-M	73[B]	LEU	4.5
1	3-M	73[C]	LEU	4.5
1	4-M	73[D]	LEU	4.5
1	1-L	300[A]	PHE	4.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-L	300[B]	PHE	4.5
1	3-L	300[C]	PHE	4.5
1	4-L	300[D]	PHE	4.5
1	1-B	283[A]	ALA	4.5
1	1-I	158[A]	ASP	4.5
1	1-I	218[A]	CYS	4.5
1	2-B	283[B]	ALA	4.5
1	2-I	158[B]	ASP	4.5
1	2-I	218[B]	CYS	4.5
1	3-B	283[C]	ALA	4.5
1	3-I	158[C]	ASP	4.5
1	3-I	218[C]	CYS	4.5
1	4-B	283[D]	ALA	4.5
1	4-I	158[D]	ASP	4.5
1	4-I	218[D]	CYS	4.5
1	1-O	18[A]	HIS	4.5
1	2-O	18[B]	HIS	4.5
1	3-O	18[C]	HIS	4.5
1	4-O	18[D]	HIS	4.5
1	1-N	298[A]	GLU	4.5
1	2-N	298[B]	GLU	4.5
1	3-N	298[C]	GLU	4.5
1	4-N	298[D]	GLU	4.5
1	1-P	297[A]	VAL	4.5
1	2-P	297[B]	VAL	4.5
1	3-P	297[C]	VAL	4.5
1	4-P	297[D]	VAL	4.5
1	1-I	44[A]	GLY	4.5
1	1-O	158[A]	ASP	4.5
1	1-P	166[A]	ASP	4.5
1	2-I	44[B]	GLY	4.5
1	2-O	158[B]	ASP	4.5
1	2-P	166[B]	ASP	4.5
1	3-I	44[C]	GLY	4.5
1	3-O	158[C]	ASP	4.5
1	3-P	166[C]	ASP	4.5
1	4-I	44[D]	GLY	4.5
1	4-O	158[D]	ASP	4.5
1	4-P	166[D]	ASP	4.5
1	1-I	47[A]	ALA	4.5
1	2-I	47[B]	ALA	4.5
1	3-I	47[C]	ALA	4.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-I	47[D]	ALA	4.5
1	1-J	22[A]	GLN	4.5
1	2-J	22[B]	GLN	4.5
1	3-J	22[C]	GLN	4.5
1	4-J	22[D]	GLN	4.5
1	1-J	150[A]	VAL	4.5
1	1-M	46[A]	VAL	4.5
1	2-J	150[B]	VAL	4.5
1	2-M	46[B]	VAL	4.5
1	3-J	150[C]	VAL	4.5
1	3-M	46[C]	VAL	4.5
1	4-J	150[D]	VAL	4.5
1	4-M	46[D]	VAL	4.5
1	1-D	95[A]	SER	4.5
1	1-K	257[A]	HIS	4.5
1	1-M	179[A]	LEU	4.5
1	1-O	230[A]	SER	4.5
1	2-D	95[B]	SER	4.5
1	2-K	257[B]	HIS	4.5
1	2-M	179[B]	LEU	4.5
1	2-O	230[B]	SER	4.5
1	3-D	95[C]	SER	4.5
1	3-K	257[C]	HIS	4.5
1	3-M	179[C]	LEU	4.5
1	3-O	230[C]	SER	4.5
1	4-D	95[D]	SER	4.5
1	4-K	257[D]	HIS	4.5
1	4-M	179[D]	LEU	4.5
1	4-O	230[D]	SER	4.5
1	1-J	249[A]	PHE	4.5
1	2-J	249[B]	PHE	4.5
1	3-J	249[C]	PHE	4.5
1	4-J	249[D]	PHE	4.5
1	1-J	92[A]	MET	4.5
1	2-J	92[B]	MET	4.5
1	3-J	92[C]	MET	4.5
1	4-J	92[D]	MET	4.5
1	1-J	152[A]	GLN	4.5
1	2-J	152[B]	GLN	4.5
1	3-J	152[C]	GLN	4.5
1	4-J	152[D]	GLN	4.5
1	1-K	309[A]	GLY	4.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-L	116[A]	GLY	4.5
1	2-K	309[B]	GLY	4.5
1	2-L	116[B]	GLY	4.5
1	3-K	309[C]	GLY	4.5
1	3-L	116[C]	GLY	4.5
1	4-K	309[D]	GLY	4.5
1	4-L	116[D]	GLY	4.5
1	1-M	53[A]	SER	4.5
1	2-M	53[B]	SER	4.5
1	3-M	53[C]	SER	4.5
1	4-M	53[D]	SER	4.5
1	1-C	203[A]	PRO	4.5
1	2-C	203[B]	PRO	4.5
1	3-C	203[C]	PRO	4.5
1	4-C	203[D]	PRO	4.5
1	1-D	59[A]	ALA	4.5
1	1-L	118[A]	ARG	4.5
1	1-M	118[A]	ARG	4.5
1	1-N	69[A]	LYS	4.5
1	2-D	59[B]	ALA	4.5
1	2-L	118[B]	ARG	4.5
1	2-M	118[B]	ARG	4.5
1	2-N	69[B]	LYS	4.5
1	3-D	59[C]	ALA	4.5
1	3-L	118[C]	ARG	4.5
1	3-M	118[C]	ARG	4.5
1	3-N	69[C]	LYS	4.5
1	4-D	59[D]	ALA	4.5
1	4-L	118[D]	ARG	4.5
1	4-M	118[D]	ARG	4.5
1	4-N	69[D]	LYS	4.5
1	1-P	309[A]	GLY	4.5
1	2-P	309[B]	GLY	4.5
1	3-P	309[C]	GLY	4.5
1	4-P	309[D]	GLY	4.5
1	1-P	270[A]	LEU	4.4
1	2-P	270[B]	LEU	4.4
1	3-P	270[C]	LEU	4.4
1	4-P	270[D]	LEU	4.4
1	1-K	136[A]	ALA	4.4
1	1-L	83[A]	PHE	4.4
1	2-K	136[B]	ALA	4.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-L	83[B]	PHE	4.4
1	3-K	136[C]	ALA	4.4
1	3-L	83[C]	PHE	4.4
1	4-K	136[D]	ALA	4.4
1	4-L	83[D]	PHE	4.4
1	1-M	242[A]	THR	4.4
1	1-N	169[A]	ILE	4.4
1	1-N	296[A]	LYS	4.4
1	1-P	228[A]	ILE	4.4
1	2-M	242[B]	THR	4.4
1	2-N	169[B]	ILE	4.4
1	2-N	296[B]	LYS	4.4
1	2-P	228[B]	ILE	4.4
1	3-M	242[C]	THR	4.4
1	3-N	169[C]	ILE	4.4
1	3-N	296[C]	LYS	4.4
1	3-P	228[C]	ILE	4.4
1	4-M	242[D]	THR	4.4
1	4-N	169[D]	ILE	4.4
1	4-N	296[D]	LYS	4.4
1	4-P	228[D]	ILE	4.4
1	1-M	278[A]	PRO	4.4
1	2-M	278[B]	PRO	4.4
1	3-M	278[C]	PRO	4.4
1	4-M	278[D]	PRO	4.4
1	1-F	197[A]	LEU	4.4
1	2-F	197[B]	LEU	4.4
1	3-F	197[C]	LEU	4.4
1	4-F	197[D]	LEU	4.4
1	1-I	143[A]	GLY	4.4
1	2-I	143[B]	GLY	4.4
1	3-I	143[C]	GLY	4.4
1	4-I	143[D]	GLY	4.4
1	1-J	160[A]	ILE	4.4
1	2-J	160[B]	ILE	4.4
1	3-J	160[C]	ILE	4.4
1	4-J	160[D]	ILE	4.4
1	1-N	76[A]	VAL	4.4
1	2-N	76[B]	VAL	4.4
1	3-N	76[C]	VAL	4.4
1	4-N	76[D]	VAL	4.4
1	1-M	236[A]	HIS	4.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-M	236[B]	HIS	4.4
1	3-M	236[C]	HIS	4.4
1	4-M	236[D]	HIS	4.4
1	1-D	201[A]	ASP	4.4
1	1-I	96[A]	GLN	4.4
1	1-N	95[A]	SER	4.4
1	2-D	201[B]	ASP	4.4
1	2-I	96[B]	GLN	4.4
1	2-N	95[B]	SER	4.4
1	3-D	201[C]	ASP	4.4
1	3-I	96[C]	GLN	4.4
1	3-N	95[C]	SER	4.4
1	4-D	201[D]	ASP	4.4
1	4-I	96[D]	GLN	4.4
1	4-N	95[D]	SER	4.4
1	1-B	165[A]	THR	4.4
1	1-K	111[A]	GLU	4.4
1	2-B	165[B]	THR	4.4
1	2-K	111[B]	GLU	4.4
1	3-B	165[C]	THR	4.4
1	3-K	111[C]	GLU	4.4
1	4-B	165[D]	THR	4.4
1	4-K	111[D]	GLU	4.4
1	1-N	191[A]	CYS	4.4
1	2-N	191[B]	CYS	4.4
1	3-N	191[C]	CYS	4.4
1	4-N	191[D]	CYS	4.4
1	1-N	284[A]	ARG	4.4
1	2-N	284[B]	ARG	4.4
1	3-N	284[C]	ARG	4.4
1	4-N	284[D]	ARG	4.4
1	1-A	200[A]	ALA	4.4
1	2-A	200[B]	ALA	4.4
1	3-A	200[C]	ALA	4.4
1	4-A	200[D]	ALA	4.4
1	1-N	299[A]	ASP	4.4
1	2-N	299[B]	ASP	4.4
1	3-N	299[C]	ASP	4.4
1	4-N	299[D]	ASP	4.4
1	1-L	172[A]	SER	4.4
1	1-L	210[A]	SER	4.4
1	1-O	307[A]	PRO	4.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-L	172[B]	SER	4.4
1	2-L	210[B]	SER	4.4
1	2-O	307[B]	PRO	4.4
1	3-L	172[C]	SER	4.4
1	3-L	210[C]	SER	4.4
1	3-O	307[C]	PRO	4.4
1	4-L	172[D]	SER	4.4
1	4-L	210[D]	SER	4.4
1	4-O	307[D]	PRO	4.4
1	1-M	74[A]	ARG	4.4
1	1-O	216[A]	ARG	4.4
1	2-M	74[B]	ARG	4.4
1	2-O	216[B]	ARG	4.4
1	3-M	74[C]	ARG	4.4
1	3-O	216[C]	ARG	4.4
1	4-M	74[D]	ARG	4.4
1	4-O	216[D]	ARG	4.4
1	1-A	42[A]	GLY	4.4
1	1-E	116[A]	GLY	4.4
1	1-H	309[A]	GLY	4.4
1	1-J	116[A]	GLY	4.4
1	2-A	42[B]	GLY	4.4
1	2-E	116[B]	GLY	4.4
1	2-H	309[B]	GLY	4.4
1	2-J	116[B]	GLY	4.4
1	3-A	42[C]	GLY	4.4
1	3-E	116[C]	GLY	4.4
1	3-H	309[C]	GLY	4.4
1	3-J	116[C]	GLY	4.4
1	4-A	42[D]	GLY	4.4
1	4-E	116[D]	GLY	4.4
1	4-H	309[D]	GLY	4.4
1	4-J	116[D]	GLY	4.4
1	1-I	246[A]	PRO	4.4
1	1-N	153[A]	LEU	4.4
1	1-O	123[A]	LEU	4.4
1	1-N	85[A]	SER	4.4
1	1-P	52[A]	PRO	4.4
1	2-I	246[B]	PRO	4.4
1	2-N	153[B]	LEU	4.4
1	2-O	123[B]	LEU	4.4
1	2-N	85[B]	SER	4.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-P	52[B]	PRO	4.4
1	3-I	246[C]	PRO	4.4
1	3-N	153[C]	LEU	4.4
1	3-O	123[C]	LEU	4.4
1	3-N	85[C]	SER	4.4
1	3-P	52[C]	PRO	4.4
1	4-I	246[D]	PRO	4.4
1	4-N	153[D]	LEU	4.4
1	4-O	123[D]	LEU	4.4
1	4-N	85[D]	SER	4.4
1	4-P	52[D]	PRO	4.4
1	1-K	221[A]	GLY	4.4
1	2-K	221[B]	GLY	4.4
1	3-K	221[C]	GLY	4.4
1	4-K	221[D]	GLY	4.4
1	1-O	276[A]	ASP	4.4
1	2-O	276[B]	ASP	4.4
1	3-O	276[C]	ASP	4.4
1	4-O	276[D]	ASP	4.4
1	1-D	198[A]	PRO	4.3
1	2-D	198[B]	PRO	4.3
1	3-D	198[C]	PRO	4.3
1	4-D	198[D]	PRO	4.3
1	1-J	240[A]	LEU	4.3
1	1-L	209[A]	LEU	4.3
1	1-O	212[A]	LEU	4.3
1	2-J	240[B]	LEU	4.3
1	2-L	209[B]	LEU	4.3
1	2-O	212[B]	LEU	4.3
1	3-J	240[C]	LEU	4.3
1	3-L	209[C]	LEU	4.3
1	3-O	212[C]	LEU	4.3
1	4-J	240[D]	LEU	4.3
1	4-L	209[D]	LEU	4.3
1	4-O	212[D]	LEU	4.3
1	1-O	71[A]	VAL	4.3
1	2-O	71[B]	VAL	4.3
1	3-O	71[C]	VAL	4.3
1	4-O	71[D]	VAL	4.3
1	1-I	303[A]	GLU	4.3
1	1-K	19[A]	GLU	4.3
1	2-I	303[B]	GLU	4.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-K	19[B]	GLU	4.3
1	3-I	303[C]	GLU	4.3
1	3-K	19[C]	GLU	4.3
1	4-I	303[D]	GLU	4.3
1	4-K	19[D]	GLU	4.3
1	1-J	125[A]	PRO	4.3
1	1-N	125[A]	PRO	4.3
1	1-N	170[A]	ILE	4.3
1	2-J	125[B]	PRO	4.3
1	2-N	125[B]	PRO	4.3
1	2-N	170[B]	ILE	4.3
1	3-J	125[C]	PRO	4.3
1	3-N	125[C]	PRO	4.3
1	3-N	170[C]	ILE	4.3
1	4-J	125[D]	PRO	4.3
1	4-N	125[D]	PRO	4.3
1	4-N	170[D]	ILE	4.3
1	1-J	272[A]	ARG	4.3
1	2-J	272[B]	ARG	4.3
1	3-J	272[C]	ARG	4.3
1	4-J	272[D]	ARG	4.3
1	1-G	137[A]	GLU	4.3
1	1-J	153[A]	LEU	4.3
1	1-M	280[A]	LEU	4.3
1	2-G	137[B]	GLU	4.3
1	2-J	153[B]	LEU	4.3
1	2-M	280[B]	LEU	4.3
1	3-G	137[C]	GLU	4.3
1	3-J	153[C]	LEU	4.3
1	3-M	280[C]	LEU	4.3
1	4-G	137[D]	GLU	4.3
1	4-J	153[D]	LEU	4.3
1	4-M	280[D]	LEU	4.3
1	1-B	190[A]	PHE	4.3
1	1-K	258[A]	VAL	4.3
1	2-B	190[B]	PHE	4.3
1	2-K	258[B]	VAL	4.3
1	3-B	190[C]	PHE	4.3
1	3-K	258[C]	VAL	4.3
1	4-B	190[D]	PHE	4.3
1	4-K	258[D]	VAL	4.3
1	1-I	91[A]	LYS	4.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-I	91[B]	LYS	4.3
1	3-I	91[C]	LYS	4.3
1	4-I	91[D]	LYS	4.3
1	1-M	185[A]	PRO	4.3
1	2-M	185[B]	PRO	4.3
1	3-M	185[C]	PRO	4.3
1	4-M	185[D]	PRO	4.3
1	1-L	100[A]	ILE	4.3
1	2-L	100[B]	ILE	4.3
1	3-L	100[C]	ILE	4.3
1	4-L	100[D]	ILE	4.3
1	1-H	26[A]	LEU	4.3
1	2-H	26[B]	LEU	4.3
1	3-H	26[C]	LEU	4.3
1	4-H	26[D]	LEU	4.3
1	1-N	304[A]	GLY	4.3
1	2-N	304[B]	GLY	4.3
1	3-N	304[C]	GLY	4.3
1	4-N	304[D]	GLY	4.3
1	1-P	247[A]	HIS	4.3
1	2-P	247[B]	HIS	4.3
1	3-P	247[C]	HIS	4.3
1	4-P	247[D]	HIS	4.3
1	1-B	203[A]	PRO	4.3
1	1-I	20[A]	GLU	4.3
1	2-B	203[B]	PRO	4.3
1	2-I	20[B]	GLU	4.3
1	3-B	203[C]	PRO	4.3
1	3-I	20[C]	GLU	4.3
1	4-B	203[D]	PRO	4.3
1	4-I	20[D]	GLU	4.3
1	1-G	44[A]	GLY	4.3
1	1-I	147[A]	GLY	4.3
1	2-G	44[B]	GLY	4.3
1	2-I	147[B]	GLY	4.3
1	3-G	44[C]	GLY	4.3
1	3-I	147[C]	GLY	4.3
1	4-G	44[D]	GLY	4.3
1	4-I	147[D]	GLY	4.3
1	1-F	268[A]	THR	4.3
1	1-L	236[A]	HIS	4.3
1	1-L	280[A]	LEU	4.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-F	268[B]	THR	4.3
1	2-L	236[B]	HIS	4.3
1	2-L	280[B]	LEU	4.3
1	3-F	268[C]	THR	4.3
1	3-L	236[C]	HIS	4.3
1	3-L	280[C]	LEU	4.3
1	4-F	268[D]	THR	4.3
1	4-L	236[D]	HIS	4.3
1	4-L	280[D]	LEU	4.3
1	1-H	245[A]	GLU	4.3
1	2-H	245[B]	GLU	4.3
1	3-H	245[C]	GLU	4.3
1	4-H	245[D]	GLU	4.3
1	1-L	219[A]	ASP	4.3
1	2-L	219[B]	ASP	4.3
1	3-L	219[C]	ASP	4.3
1	4-L	219[D]	ASP	4.3
1	1-J	23[A]	TYR	4.3
1	2-J	23[B]	TYR	4.3
1	3-J	23[C]	TYR	4.3
1	4-J	23[D]	TYR	4.3
1	1-I	296[A]	LYS	4.3
1	1-P	242[A]	THR	4.3
1	2-I	296[B]	LYS	4.3
1	2-P	242[B]	THR	4.3
1	3-I	296[C]	LYS	4.3
1	3-P	242[C]	THR	4.3
1	4-I	296[D]	LYS	4.3
1	4-P	242[D]	THR	4.3
1	1-M	25[A]	ASP	4.3
1	2-M	25[B]	ASP	4.3
1	3-M	25[C]	ASP	4.3
1	4-M	25[D]	ASP	4.3
1	1-K	106[A]	SER	4.3
1	1-M	57[A]	SER	4.3
1	2-K	106[B]	SER	4.3
1	2-M	57[B]	SER	4.3
1	3-K	106[C]	SER	4.3
1	3-M	57[C]	SER	4.3
1	4-K	106[D]	SER	4.3
1	4-M	57[D]	SER	4.3
1	1-K	271[A]	GLU	4.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-O	275[A]	ARG	4.3
1	2-K	271[B]	GLU	4.3
1	2-O	275[B]	ARG	4.3
1	3-K	271[C]	GLU	4.3
1	3-O	275[C]	ARG	4.3
1	4-K	271[D]	GLU	4.3
1	4-O	275[D]	ARG	4.3
1	1-N	149[A]	GLY	4.3
1	2-N	149[B]	GLY	4.3
1	3-N	149[C]	GLY	4.3
1	4-N	149[D]	GLY	4.3
1	1-I	188[A]	HIS	4.3
1	1-N	107[A]	LYS	4.3
1	2-I	188[B]	HIS	4.3
1	2-N	107[B]	LYS	4.3
1	3-I	188[C]	HIS	4.3
1	3-N	107[C]	LYS	4.3
1	4-I	188[D]	HIS	4.3
1	4-N	107[D]	LYS	4.3
1	1-I	185[A]	PRO	4.3
1	2-I	185[B]	PRO	4.3
1	3-I	185[C]	PRO	4.3
1	4-I	185[D]	PRO	4.3
1	1-N	255[A]	ASP	4.3
1	1-O	293[A]	ASP	4.3
1	2-N	255[B]	ASP	4.3
1	2-O	293[B]	ASP	4.3
1	3-N	255[C]	ASP	4.3
1	3-O	293[C]	ASP	4.3
1	4-N	255[D]	ASP	4.3
1	4-O	293[D]	ASP	4.3
1	1-I	28[A]	ARG	4.2
1	1-L	29[A]	ARG	4.2
1	2-I	28[B]	ARG	4.2
1	2-L	29[B]	ARG	4.2
1	3-I	28[C]	ARG	4.2
1	3-L	29[C]	ARG	4.2
1	4-I	28[D]	ARG	4.2
1	4-L	29[D]	ARG	4.2
1	1-P	121[A]	GLY	4.2
1	1-P	162[A]	ASN	4.2
1	2-P	121[B]	GLY	4.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-P	162[B]	ASN	4.2
1	3-P	121[C]	GLY	4.2
1	3-P	162[C]	ASN	4.2
1	4-P	121[D]	GLY	4.2
1	4-P	162[D]	ASN	4.2
1	1-I	68[A]	THR	4.2
1	1-J	77[A]	ILE	4.2
1	1-K	38[A]	PRO	4.2
1	2-I	68[B]	THR	4.2
1	2-J	77[B]	ILE	4.2
1	2-K	38[B]	PRO	4.2
1	3-I	68[C]	THR	4.2
1	3-J	77[C]	ILE	4.2
1	3-K	38[C]	PRO	4.2
1	4-I	68[D]	THR	4.2
1	4-J	77[D]	ILE	4.2
1	4-K	38[D]	PRO	4.2
1	1-J	69[A]	LYS	4.2
1	2-J	69[B]	LYS	4.2
1	3-J	69[C]	LYS	4.2
1	4-J	69[D]	LYS	4.2
1	1-B	263[A]	VAL	4.2
1	1-C	263[A]	VAL	4.2
1	2-B	263[B]	VAL	4.2
1	2-C	263[B]	VAL	4.2
1	3-B	263[C]	VAL	4.2
1	3-C	263[C]	VAL	4.2
1	4-B	263[D]	VAL	4.2
1	4-C	263[D]	VAL	4.2
1	1-J	166[A]	ASP	4.2
1	1-I	50[A]	ALA	4.2
1	1-N	92[A]	MET	4.2
1	2-J	166[B]	ASP	4.2
1	2-I	50[B]	ALA	4.2
1	2-N	92[B]	MET	4.2
1	3-J	166[C]	ASP	4.2
1	3-I	50[C]	ALA	4.2
1	3-N	92[C]	MET	4.2
1	4-J	166[D]	ASP	4.2
1	4-I	50[D]	ALA	4.2
1	4-N	92[D]	MET	4.2
1	1-K	41[A]	THR	4.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-N	168[A]	ARG	4.2
1	2-K	41[B]	THR	4.2
1	2-N	168[B]	ARG	4.2
1	3-K	41[C]	THR	4.2
1	3-N	168[C]	ARG	4.2
1	4-K	41[D]	THR	4.2
1	4-N	168[D]	ARG	4.2
1	1-A	294[A]	GLY	4.2
1	1-K	42[A]	GLY	4.2
1	2-A	294[B]	GLY	4.2
1	2-K	42[B]	GLY	4.2
1	3-A	294[C]	GLY	4.2
1	3-K	42[C]	GLY	4.2
1	4-A	294[D]	GLY	4.2
1	4-K	42[D]	GLY	4.2
1	1-A	317[A]	ALA	4.2
1	2-A	317[B]	ALA	4.2
1	3-A	317[C]	ALA	4.2
1	4-A	317[D]	ALA	4.2
1	1-P	250[A]	ILE	4.2
1	2-P	250[B]	ILE	4.2
1	3-P	250[C]	ILE	4.2
1	4-P	250[D]	ILE	4.2
1	1-P	40[A]	ARG	4.2
1	2-P	40[B]	ARG	4.2
1	3-P	40[C]	ARG	4.2
1	4-P	40[D]	ARG	4.2
1	1-N	176[A]	PRO	4.2
1	2-N	176[B]	PRO	4.2
1	3-N	176[C]	PRO	4.2
1	4-N	176[D]	PRO	4.2
1	1-L	191[A]	CYS	4.2
1	1-O	187[A]	CYS	4.2
1	2-L	191[B]	CYS	4.2
1	2-O	187[B]	CYS	4.2
1	3-L	191[C]	CYS	4.2
1	3-O	187[C]	CYS	4.2
1	4-L	191[D]	CYS	4.2
1	4-O	187[D]	CYS	4.2
1	1-D	202[A]	SER	4.2
1	2-D	202[B]	SER	4.2
1	3-D	202[C]	SER	4.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-D	202[D]	SER	4.2
1	1-L	22[A]	GLN	4.2
1	1-M	152[A]	GLN	4.2
1	1-O	114[A]	GLY	4.2
1	2-L	22[B]	GLN	4.2
1	2-M	152[B]	GLN	4.2
1	2-O	114[B]	GLY	4.2
1	3-L	22[C]	GLN	4.2
1	3-M	152[C]	GLN	4.2
1	3-O	114[C]	GLY	4.2
1	4-L	22[D]	GLN	4.2
1	4-M	152[D]	GLN	4.2
1	4-O	114[D]	GLY	4.2
1	1-M	206[A]	LYS	4.2
1	2-M	206[B]	LYS	4.2
1	3-M	206[C]	LYS	4.2
1	4-M	206[D]	LYS	4.2
1	1-M	228[A]	ILE	4.2
1	2-M	228[B]	ILE	4.2
1	3-M	228[C]	ILE	4.2
1	4-M	228[D]	ILE	4.2
1	1-N	213[A]	MET	4.2
1	2-N	213[B]	MET	4.2
1	3-N	213[C]	MET	4.2
1	4-N	213[D]	MET	4.2
1	1-L	287[A]	GLU	4.2
1	2-L	287[B]	GLU	4.2
1	3-L	287[C]	GLU	4.2
1	4-L	287[D]	GLU	4.2
1	1-E	47[A]	ALA	4.2
1	1-N	78[A]	ALA	4.2
1	1-O	53[A]	SER	4.2
1	2-E	47[B]	ALA	4.2
1	2-N	78[B]	ALA	4.2
1	2-O	53[B]	SER	4.2
1	3-E	47[C]	ALA	4.2
1	3-N	78[C]	ALA	4.2
1	3-O	53[C]	SER	4.2
1	4-E	47[D]	ALA	4.2
1	4-N	78[D]	ALA	4.2
1	4-O	53[D]	SER	4.2
1	1-M	161[A]	LYS	4.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-J	70[A]	ARG	4.2
1	1-L	121[A]	GLY	4.2
1	1-O	144[A]	ASP	4.2
1	1-P	219[A]	ASP	4.2
1	2-M	161[B]	LYS	4.2
1	2-J	70[B]	ARG	4.2
1	2-L	121[B]	GLY	4.2
1	2-O	144[B]	ASP	4.2
1	2-P	219[B]	ASP	4.2
1	3-M	161[C]	LYS	4.2
1	3-L	121[C]	GLY	4.2
1	3-O	144[C]	ASP	4.2
1	3-P	219[C]	ASP	4.2
1	4-M	161[D]	LYS	4.2
1	4-J	70[D]	ARG	4.2
1	4-L	121[D]	GLY	4.2
1	4-O	144[D]	ASP	4.2
1	4-P	219[D]	ASP	4.2
1	3-J	70[C]	ARG	4.2
1	1-K	213[A]	MET	4.2
1	2-K	213[B]	MET	4.2
1	3-K	213[C]	MET	4.2
1	4-K	213[D]	MET	4.2
1	1-K	162[A]	ASN	4.2
1	2-K	162[B]	ASN	4.2
1	3-K	162[C]	ASN	4.2
1	4-K	162[D]	ASN	4.2
1	1-I	121[A]	GLY	4.1
1	2-I	121[B]	GLY	4.1
1	3-I	121[C]	GLY	4.1
1	4-I	121[D]	GLY	4.1
1	1-N	38[A]	PRO	4.1
1	1-P	307[A]	PRO	4.1
1	2-N	38[B]	PRO	4.1
1	2-P	307[B]	PRO	4.1
1	3-N	38[C]	PRO	4.1
1	3-P	307[C]	PRO	4.1
1	4-N	38[D]	PRO	4.1
1	4-P	307[D]	PRO	4.1
1	1-K	129[A]	PHE	4.1
1	1-L	157[A]	ILE	4.1
1	1-M	65[A]	LEU	4.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-K	129[B]	PHE	4.1
1	2-L	157[B]	ILE	4.1
1	2-M	65[B]	LEU	4.1
1	3-K	129[C]	PHE	4.1
1	3-L	157[C]	ILE	4.1
1	3-M	65[C]	LEU	4.1
1	4-K	129[D]	PHE	4.1
1	4-L	157[D]	ILE	4.1
1	4-M	65[D]	LEU	4.1
1	1-L	301[A]	VAL	4.1
1	1-N	71[A]	VAL	4.1
1	2-L	301[B]	VAL	4.1
1	2-N	71[B]	VAL	4.1
1	3-L	301[C]	VAL	4.1
1	3-N	71[C]	VAL	4.1
1	4-L	301[D]	VAL	4.1
1	4-N	71[D]	VAL	4.1
1	1-L	154[A]	GLN	4.1
1	2-L	154[B]	GLN	4.1
1	3-L	154[C]	GLN	4.1
1	4-L	154[D]	GLN	4.1
1	1-G	60[A]	ASP	4.1
1	1-I	73[A]	LEU	4.1
1	1-L	284[A]	ARG	4.1
1	2-G	60[B]	ASP	4.1
1	1-M	104[A]	ASN	4.1
1	1-P	24[A]	LEU	4.1
1	2-I	73[B]	LEU	4.1
1	2-L	284[B]	ARG	4.1
1	3-G	60[C]	ASP	4.1
1	3-I	73[C]	LEU	4.1
1	3-L	284[C]	ARG	4.1
1	4-G	60[D]	ASP	4.1
1	2-M	104[B]	ASN	4.1
1	2-P	24[B]	LEU	4.1
1	3-M	104[C]	ASN	4.1
1	3-P	24[C]	LEU	4.1
1	4-I	73[D]	LEU	4.1
1	4-L	284[D]	ARG	4.1
1	4-M	104[D]	ASN	4.1
1	4-P	24[D]	LEU	4.1
1	1-N	283[A]	ALA	4.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-O	112[A]	LYS	4.1
1	2-N	283[B]	ALA	4.1
1	2-O	112[B]	LYS	4.1
1	3-N	283[C]	ALA	4.1
1	3-O	112[C]	LYS	4.1
1	4-N	283[D]	ALA	4.1
1	4-O	112[D]	LYS	4.1
1	1-K	215[A]	GLN	4.1
1	2-K	215[B]	GLN	4.1
1	3-K	215[C]	GLN	4.1
1	4-K	215[D]	GLN	4.1
1	1-J	137[A]	GLU	4.1
1	2-J	137[B]	GLU	4.1
1	3-J	137[C]	GLU	4.1
1	4-J	137[D]	GLU	4.1
1	1-A	290[A]	GLY	4.1
1	2-A	290[B]	GLY	4.1
1	3-A	290[C]	GLY	4.1
1	4-A	290[D]	GLY	4.1
1	1-C	231[A]	TYR	4.1
1	2-C	231[B]	TYR	4.1
1	3-C	231[C]	TYR	4.1
1	4-C	231[D]	TYR	4.1
1	1-P	141[A]	ALA	4.1
1	2-P	141[B]	ALA	4.1
1	3-P	141[C]	ALA	4.1
1	4-P	141[D]	ALA	4.1
1	1-H	199[A]	PRO	4.1
1	1-N	246[A]	PRO	4.1
1	2-H	199[B]	PRO	4.1
1	2-N	246[B]	PRO	4.1
1	3-H	199[C]	PRO	4.1
1	3-N	246[C]	PRO	4.1
1	4-H	199[D]	PRO	4.1
1	4-N	246[D]	PRO	4.1
1	1-J	104[A]	ASN	4.1
1	2-J	104[B]	ASN	4.1
1	3-J	104[C]	ASN	4.1
1	4-J	104[D]	ASN	4.1
1	1-O	208[A]	LYS	4.1
1	2-O	208[B]	LYS	4.1
1	3-O	208[C]	LYS	4.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-O	208[D]	LYS	4.1
1	1-I	251[A]	LEU	4.1
1	1-L	153[A]	LEU	4.1
1	2-I	251[B]	LEU	4.1
1	2-L	153[B]	LEU	4.1
1	3-I	251[C]	LEU	4.1
1	3-L	153[C]	LEU	4.1
1	4-I	251[D]	LEU	4.1
1	4-L	153[D]	LEU	4.1
1	1-G	23[A]	TYR	4.1
1	1-K	27[A]	ILE	4.1
1	1-L	238[A]	ILE	4.1
1	2-G	23[B]	TYR	4.1
1	2-K	27[B]	ILE	4.1
1	2-L	238[B]	ILE	4.1
1	3-G	23[C]	TYR	4.1
1	3-K	27[C]	ILE	4.1
1	3-L	238[C]	ILE	4.1
1	4-G	23[D]	TYR	4.1
1	4-K	27[D]	ILE	4.1
1	4-L	238[D]	ILE	4.1
1	1-J	164[A]	PRO	4.1
1	2-J	164[B]	PRO	4.1
1	3-J	164[C]	PRO	4.1
1	4-J	164[D]	PRO	4.1
1	1-A	113[A]	VAL	4.1
1	1-N	297[A]	VAL	4.1
1	2-A	113[B]	VAL	4.1
1	2-N	297[B]	VAL	4.1
1	3-A	113[C]	VAL	4.1
1	3-N	297[C]	VAL	4.1
1	4-A	113[D]	VAL	4.1
1	4-N	297[D]	VAL	4.1
1	1-A	312[A]	ASP	4.1
1	1-N	20[A]	GLU	4.1
1	1-O	219[A]	ASP	4.1
1	1-P	179[A]	LEU	4.1
1	1-P	295[A]	PHE	4.1
1	2-A	312[B]	ASP	4.1
1	2-N	20[B]	GLU	4.1
1	2-O	219[B]	ASP	4.1
1	2-P	179[B]	LEU	4.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-P	295[B]	PHE	4.1
1	3-A	312[C]	ASP	4.1
1	3-N	20[C]	GLU	4.1
1	3-O	219[C]	ASP	4.1
1	3-P	179[C]	LEU	4.1
1	3-P	295[C]	PHE	4.1
1	4-A	312[D]	ASP	4.1
1	4-N	20[D]	GLU	4.1
1	4-O	219[D]	ASP	4.1
1	4-P	179[D]	LEU	4.1
1	4-P	295[D]	PHE	4.1
1	1-M	148[A]	LYS	4.1
1	2-M	148[B]	LYS	4.1
1	3-M	148[C]	LYS	4.1
1	4-M	148[D]	LYS	4.1
1	1-E	14[A]	SER	4.1
1	1-J	216[A]	ARG	4.1
1	1-N	216[A]	ARG	4.1
1	1-P	285[A]	SER	4.1
1	2-E	14[B]	SER	4.1
1	2-J	216[B]	ARG	4.1
1	2-N	216[B]	ARG	4.1
1	2-P	285[B]	SER	4.1
1	3-E	14[C]	SER	4.1
1	3-J	216[C]	ARG	4.1
1	3-N	216[C]	ARG	4.1
1	3-P	285[C]	SER	4.1
1	4-E	14[D]	SER	4.1
1	4-J	216[D]	ARG	4.1
1	4-N	216[D]	ARG	4.1
1	4-P	285[D]	SER	4.1
1	1-M	248[A]	GLU	4.0
1	2-M	248[B]	GLU	4.0
1	3-M	248[C]	GLU	4.0
1	4-M	248[D]	GLU	4.0
1	1-H	203[A]	PRO	4.0
1	1-K	164[A]	PRO	4.0
1	1-K	185[A]	PRO	4.0
1	2-H	203[B]	PRO	4.0
1	2-K	164[B]	PRO	4.0
1	2-K	185[B]	PRO	4.0
1	3-H	203[C]	PRO	4.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-K	164[C]	PRO	4.0
1	3-K	185[C]	PRO	4.0
1	4-H	203[D]	PRO	4.0
1	4-K	164[D]	PRO	4.0
1	4-K	185[D]	PRO	4.0
1	1-L	62[A]	THR	4.0
1	2-L	62[B]	THR	4.0
1	3-L	62[C]	THR	4.0
1	4-L	62[D]	THR	4.0
1	1-E	136[A]	ALA	4.0
1	1-F	229[A]	ALA	4.0
1	2-E	136[B]	ALA	4.0
1	2-F	229[B]	ALA	4.0
1	3-E	136[C]	ALA	4.0
1	3-F	229[C]	ALA	4.0
1	4-E	136[D]	ALA	4.0
1	4-F	229[D]	ALA	4.0
1	1-J	236[A]	HIS	4.0
1	2-J	236[B]	HIS	4.0
1	3-J	236[C]	HIS	4.0
1	4-J	236[D]	HIS	4.0
1	1-P	120[A]	GLU	4.0
1	2-P	120[B]	GLU	4.0
1	3-P	120[C]	GLU	4.0
1	4-P	120[D]	GLU	4.0
1	1-N	293[A]	ASP	4.0
1	2-N	293[B]	ASP	4.0
1	3-N	293[C]	ASP	4.0
1	4-N	293[D]	ASP	4.0
1	1-P	163[A]	ASN	4.0
1	2-P	163[B]	ASN	4.0
1	3-P	163[C]	ASN	4.0
1	4-P	163[D]	ASN	4.0
1	1-C	111[A]	GLU	4.0
1	1-K	160[A]	ILE	4.0
1	1-N	132[A]	ARG	4.0
1	2-C	111[B]	GLU	4.0
1	2-K	160[B]	ILE	4.0
1	2-N	132[B]	ARG	4.0
1	3-C	111[C]	GLU	4.0
1	3-K	160[C]	ILE	4.0
1	3-N	132[C]	ARG	4.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-C	111[D]	GLU	4.0
1	4-K	160[D]	ILE	4.0
1	4-N	132[D]	ARG	4.0
1	1-G	204[A]	GLY	4.0
1	2-G	204[B]	GLY	4.0
1	3-G	204[C]	GLY	4.0
1	4-G	204[D]	GLY	4.0
1	1-A	106[A]	SER	4.0
1	2-A	106[B]	SER	4.0
1	3-A	106[C]	SER	4.0
1	4-A	106[D]	SER	4.0
1	1-M	159[A]	THR	4.0
1	2-M	159[B]	THR	4.0
1	3-M	159[C]	THR	4.0
1	4-M	159[D]	THR	4.0
1	1-A	220[A]	LEU	4.0
1	1-J	177[A]	LYS	4.0
1	1-L	26[A]	LEU	4.0
1	2-A	220[B]	LEU	4.0
1	2-J	177[B]	LYS	4.0
1	2-L	26[B]	LEU	4.0
1	3-A	220[C]	LEU	4.0
1	3-J	177[C]	LYS	4.0
1	3-L	26[C]	LEU	4.0
1	4-A	220[D]	LEU	4.0
1	4-J	177[D]	LYS	4.0
1	4-L	26[D]	LEU	4.0
1	1-K	236[A]	HIS	4.0
1	2-K	236[B]	HIS	4.0
1	3-K	236[C]	HIS	4.0
1	4-K	236[D]	HIS	4.0
1	1-K	187[A]	CYS	4.0
1	2-K	187[B]	CYS	4.0
1	3-K	187[C]	CYS	4.0
1	4-K	187[D]	CYS	4.0
1	1-K	192[A]	GLN	4.0
1	1-N	177[A]	LYS	4.0
1	2-K	192[B]	GLN	4.0
1	2-N	177[B]	LYS	4.0
1	3-K	192[C]	GLN	4.0
1	3-N	177[C]	LYS	4.0
1	4-K	192[D]	GLN	4.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-N	177[D]	LYS	4.0
1	1-B	159[A]	THR	4.0
1	1-I	89[A]	ASP	4.0
1	1-J	89[A]	ASP	4.0
1	1-L	261[A]	ASP	4.0
1	1-O	247[A]	HIS	4.0
1	2-B	159[B]	THR	4.0
1	2-I	89[B]	ASP	4.0
1	2-J	89[B]	ASP	4.0
1	2-L	261[B]	ASP	4.0
1	2-O	247[B]	HIS	4.0
1	3-B	159[C]	THR	4.0
1	3-I	89[C]	ASP	4.0
1	3-J	89[C]	ASP	4.0
1	3-L	261[C]	ASP	4.0
1	3-O	247[C]	HIS	4.0
1	4-B	159[D]	THR	4.0
1	4-I	89[D]	ASP	4.0
1	4-J	89[D]	ASP	4.0
1	4-L	261[D]	ASP	4.0
1	4-O	247[D]	HIS	4.0
1	1-O	93[A]	LEU	4.0
1	2-O	93[B]	LEU	4.0
1	3-O	93[C]	LEU	4.0
1	4-O	93[D]	LEU	4.0
1	1-P	210[A]	SER	4.0
1	2-P	210[B]	SER	4.0
1	3-P	210[C]	SER	4.0
1	4-P	210[D]	SER	4.0
1	1-I	79[A]	GLU	4.0
1	1-I	245[A]	GLU	4.0
1	2-I	79[B]	GLU	4.0
1	2-I	245[B]	GLU	4.0
1	3-I	79[C]	GLU	4.0
1	3-I	245[C]	GLU	4.0
1	4-I	79[D]	GLU	4.0
1	4-I	245[D]	GLU	4.0
1	1-D	309[A]	GLY	4.0
1	2-D	309[B]	GLY	4.0
1	3-D	309[C]	GLY	4.0
1	4-D	309[D]	GLY	4.0
1	1-K	132[A]	ARG	4.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-K	132[B]	ARG	4.0
1	3-K	132[C]	ARG	4.0
1	4-K	132[D]	ARG	4.0
1	1-M	176[A]	PRO	4.0
1	2-M	176[B]	PRO	4.0
1	3-M	176[C]	PRO	4.0
1	4-M	176[D]	PRO	4.0
1	1-N	133[A]	HIS	4.0
1	2-N	133[B]	HIS	4.0
1	3-N	133[C]	HIS	4.0
1	4-N	133[D]	HIS	4.0
1	1-D	204[A]	GLY	4.0
1	1-J	120[A]	GLU	4.0
1	2-D	204[B]	GLY	4.0
1	2-J	120[B]	GLU	4.0
1	3-D	204[C]	GLY	4.0
1	3-J	120[C]	GLU	4.0
1	4-D	204[D]	GLY	4.0
1	4-J	120[D]	GLU	4.0
1	1-F	14[A]	SER	4.0
1	1-K	272[A]	ARG	4.0
1	1-N	57[A]	SER	4.0
1	2-F	14[B]	SER	4.0
1	2-K	272[B]	ARG	4.0
1	2-N	57[B]	SER	4.0
1	3-F	14[C]	SER	4.0
1	3-K	272[C]	ARG	4.0
1	3-N	57[C]	SER	4.0
1	4-F	14[D]	SER	4.0
1	4-K	272[D]	ARG	4.0
1	4-N	57[D]	SER	4.0
1	1-L	49[A]	PHE	4.0
1	1-M	66[A]	LEU	4.0
1	2-L	49[B]	PHE	4.0
1	2-M	66[B]	LEU	4.0
1	3-L	49[C]	PHE	4.0
1	3-M	66[C]	LEU	4.0
1	4-L	49[D]	PHE	4.0
1	4-M	66[D]	LEU	4.0
1	1-J	25[A]	ASP	3.9
1	2-J	25[B]	ASP	3.9
1	3-J	25[C]	ASP	3.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-J	25[D]	ASP	3.9
1	1-D	263[A]	VAL	3.9
1	1-J	314[A]	LYS	3.9
1	2-D	263[B]	VAL	3.9
1	2-J	314[B]	LYS	3.9
1	3-D	263[C]	VAL	3.9
1	3-J	314[C]	LYS	3.9
1	4-D	263[D]	VAL	3.9
1	4-J	314[D]	LYS	3.9
1	1-M	154[A]	GLN	3.9
1	2-M	154[B]	GLN	3.9
1	3-M	154[C]	GLN	3.9
1	4-M	154[D]	GLN	3.9
1	1-G	190[A]	PHE	3.9
1	2-G	190[B]	PHE	3.9
1	3-G	190[C]	PHE	3.9
1	4-G	190[D]	PHE	3.9
1	1-C	30[A]	ILE	3.9
1	1-J	37[A]	ARG	3.9
1	1-K	40[A]	ARG	3.9
1	1-P	147[A]	GLY	3.9
1	2-C	30[B]	ILE	3.9
1	2-J	37[B]	ARG	3.9
1	2-K	40[B]	ARG	3.9
1	2-P	147[B]	GLY	3.9
1	3-C	30[C]	ILE	3.9
1	3-J	37[C]	ARG	3.9
1	3-K	40[C]	ARG	3.9
1	3-P	147[C]	GLY	3.9
1	4-C	30[D]	ILE	3.9
1	4-J	37[D]	ARG	3.9
1	4-K	40[D]	ARG	3.9
1	4-P	147[D]	GLY	3.9
1	1-M	219[A]	ASP	3.9
1	2-M	219[B]	ASP	3.9
1	3-M	219[C]	ASP	3.9
1	4-M	219[D]	ASP	3.9
1	1-L	298[A]	GLU	3.9
1	2-L	298[B]	GLU	3.9
1	3-L	298[C]	GLU	3.9
1	4-L	298[D]	GLU	3.9
1	1-J	107[A]	LYS	3.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-J	107[B]	LYS	3.9
1	3-J	107[C]	LYS	3.9
1	4-J	107[D]	LYS	3.9
1	1-B	277[A]	PHE	3.9
1	1-F	24[A]	LEU	3.9
1	1-J	48[A]	LEU	3.9
1	2-B	277[B]	PHE	3.9
1	2-F	24[B]	LEU	3.9
1	2-J	48[B]	LEU	3.9
1	3-B	277[C]	PHE	3.9
1	3-F	24[C]	LEU	3.9
1	3-J	48[C]	LEU	3.9
1	4-B	277[D]	PHE	3.9
1	4-F	24[D]	LEU	3.9
1	4-J	48[D]	LEU	3.9
1	1-I	132[A]	ARG	3.9
1	1-M	275[A]	ARG	3.9
1	2-I	132[B]	ARG	3.9
1	2-M	275[B]	ARG	3.9
1	3-I	132[C]	ARG	3.9
1	3-M	275[C]	ARG	3.9
1	4-I	132[D]	ARG	3.9
1	4-M	275[D]	ARG	3.9
1	1-O	151[A]	ASP	3.9
1	1-C	16[A]	PRO	3.9
1	1-H	15[A]	ASN	3.9
1	2-O	151[B]	ASP	3.9
1	2-C	16[B]	PRO	3.9
1	2-H	15[B]	ASN	3.9
1	3-C	16[C]	PRO	3.9
1	3-H	15[C]	ASN	3.9
1	3-O	151[C]	ASP	3.9
1	4-C	16[D]	PRO	3.9
1	4-H	15[D]	ASN	3.9
1	4-O	151[D]	ASP	3.9
1	1-K	55[A]	ARG	3.9
1	2-K	55[B]	ARG	3.9
1	3-K	55[C]	ARG	3.9
1	4-K	55[D]	ARG	3.9
1	1-J	72[A]	PHE	3.9
1	1-L	232[A]	ALA	3.9
1	1-M	239[A]	ALA	3.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-J	72[B]	PHE	3.9
1	2-L	232[B]	ALA	3.9
1	2-M	239[B]	ALA	3.9
1	3-J	72[C]	PHE	3.9
1	3-L	232[C]	ALA	3.9
1	3-M	239[C]	ALA	3.9
1	4-J	72[D]	PHE	3.9
1	4-L	232[D]	ALA	3.9
1	4-M	239[D]	ALA	3.9
1	1-A	202[A]	SER	3.9
1	2-A	202[B]	SER	3.9
1	3-A	202[C]	SER	3.9
1	4-A	202[D]	SER	3.9
1	1-I	307[A]	PRO	3.9
1	2-I	307[B]	PRO	3.9
1	3-I	307[C]	PRO	3.9
1	4-I	307[D]	PRO	3.9
1	1-C	59[A]	ALA	3.9
1	2-C	59[B]	ALA	3.9
1	3-C	59[C]	ALA	3.9
1	4-C	59[D]	ALA	3.9
1	1-N	312[A]	ASP	3.9
1	2-N	312[B]	ASP	3.9
1	3-N	312[C]	ASP	3.9
1	4-N	312[D]	ASP	3.9
1	1-M	162[A]	ASN	3.9
1	2-M	162[B]	ASN	3.9
1	3-M	162[C]	ASN	3.9
1	4-M	162[D]	ASN	3.9
1	1-L	132[A]	ARG	3.9
1	2-L	132[B]	ARG	3.9
1	3-L	132[C]	ARG	3.9
1	4-L	132[D]	ARG	3.9
1	1-J	42[A]	GLY	3.9
1	1-M	128[A]	GLY	3.9
1	2-J	42[B]	GLY	3.9
1	2-M	128[B]	GLY	3.9
1	3-J	42[C]	GLY	3.9
1	3-M	128[C]	GLY	3.9
1	4-J	42[D]	GLY	3.9
1	4-M	128[D]	GLY	3.9
1	1-C	317[A]	ALA	3.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-J	87[A]	CYS	3.9
1	2-C	317[B]	ALA	3.9
1	2-J	87[B]	CYS	3.9
1	3-C	317[C]	ALA	3.9
1	3-J	87[C]	CYS	3.9
1	4-C	317[D]	ALA	3.9
1	4-J	87[D]	CYS	3.9
1	1-F	205[A]	SER	3.9
1	1-K	246[A]	PRO	3.9
1	2-F	205[B]	SER	3.9
1	2-K	246[B]	PRO	3.9
1	3-F	205[C]	SER	3.9
1	3-K	246[C]	PRO	3.9
1	4-F	205[D]	SER	3.9
1	4-K	246[D]	PRO	3.9
1	1-O	288[A]	GLU	3.9
1	2-O	288[B]	GLU	3.9
1	3-O	288[C]	GLU	3.9
1	4-O	288[D]	GLU	3.9
1	1-F	17[A]	ASP	3.8
1	1-O	178[A]	ASP	3.8
1	2-F	17[B]	ASP	3.8
1	2-O	178[B]	ASP	3.8
1	3-F	17[C]	ASP	3.8
1	3-O	178[C]	ASP	3.8
1	4-F	17[D]	ASP	3.8
1	4-O	178[D]	ASP	3.8
1	1-J	74[A]	ARG	3.8
1	2-J	74[B]	ARG	3.8
1	3-J	74[C]	ARG	3.8
1	4-J	74[D]	ARG	3.8
1	1-M	123[A]	LEU	3.8
1	1-O	51[A]	PRO	3.8
1	2-M	123[B]	LEU	3.8
1	2-O	51[B]	PRO	3.8
1	3-M	123[C]	LEU	3.8
1	3-O	51[C]	PRO	3.8
1	4-M	123[D]	LEU	3.8
1	4-O	51[D]	PRO	3.8
1	1-O	273[A]	GLU	3.8
1	2-O	273[B]	GLU	3.8
1	3-O	273[C]	GLU	3.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-O	273[D]	GLU	3.8
1	1-P	67[A]	THR	3.8
1	2-P	67[B]	THR	3.8
1	3-P	67[C]	THR	3.8
1	4-P	67[D]	THR	3.8
1	1-O	34[A]	GLY	3.8
1	2-O	34[B]	GLY	3.8
1	3-O	34[C]	GLY	3.8
1	4-O	34[D]	GLY	3.8
1	1-F	200[A]	ALA	3.8
1	1-L	207[A]	PRO	3.8
1	2-F	200[B]	ALA	3.8
1	2-L	207[B]	PRO	3.8
1	3-F	200[C]	ALA	3.8
1	3-L	207[C]	PRO	3.8
1	4-F	200[D]	ALA	3.8
1	4-L	207[D]	PRO	3.8
1	1-I	72[A]	PHE	3.8
1	1-J	123[A]	LEU	3.8
1	2-I	72[B]	PHE	3.8
1	2-J	123[B]	LEU	3.8
1	3-I	72[C]	PHE	3.8
1	3-J	123[C]	LEU	3.8
1	4-I	72[D]	PHE	3.8
1	4-J	123[D]	LEU	3.8
1	1-O	132[A]	ARG	3.8
1	2-O	132[B]	ARG	3.8
1	3-O	132[C]	ARG	3.8
1	4-O	132[D]	ARG	3.8
1	1-K	35[A]	GLU	3.8
1	2-K	35[B]	GLU	3.8
1	3-K	35[C]	GLU	3.8
1	4-K	35[D]	GLU	3.8
1	1-G	199[A]	PRO	3.8
1	1-I	215[A]	GLN	3.8
1	2-G	199[B]	PRO	3.8
1	2-I	215[B]	GLN	3.8
1	3-G	199[C]	PRO	3.8
1	3-I	215[C]	GLN	3.8
1	4-G	199[D]	PRO	3.8
1	4-I	215[D]	GLN	3.8
1	1-G	109[A]	PHE	3.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-N	72[A]	PHE	3.8
1	2-G	109[B]	PHE	3.8
1	2-N	72[B]	PHE	3.8
1	3-G	109[C]	PHE	3.8
1	3-N	72[C]	PHE	3.8
1	4-G	109[D]	PHE	3.8
1	4-N	72[D]	PHE	3.8
1	1-P	155[A]	ARG	3.8
1	1-P	284[A]	ARG	3.8
1	2-P	155[B]	ARG	3.8
1	2-P	284[B]	ARG	3.8
1	3-P	155[C]	ARG	3.8
1	3-P	284[C]	ARG	3.8
1	4-P	155[D]	ARG	3.8
1	4-P	284[D]	ARG	3.8
1	1-O	157[A]	ILE	3.8
1	2-O	157[B]	ILE	3.8
1	3-O	157[C]	ILE	3.8
1	4-O	157[D]	ILE	3.8
1	1-N	261[A]	ASP	3.8
1	2-N	261[B]	ASP	3.8
1	3-N	261[C]	ASP	3.8
1	4-N	261[D]	ASP	3.8
1	1-K	23[A]	TYR	3.8
1	2-K	23[B]	TYR	3.8
1	3-K	23[C]	TYR	3.8
1	4-K	23[D]	TYR	3.8
1	1-P	18[A]	HIS	3.8
1	2-P	18[B]	HIS	3.8
1	3-P	18[C]	HIS	3.8
1	4-P	18[D]	HIS	3.8
1	1-E	309[A]	GLY	3.8
1	2-E	309[B]	GLY	3.8
1	3-E	309[C]	GLY	3.8
1	4-E	309[D]	GLY	3.8
1	1-L	234[A]	LEU	3.8
1	2-L	234[B]	LEU	3.8
1	3-L	234[C]	LEU	3.8
1	4-L	234[D]	LEU	3.8
1	1-L	87[A]	CYS	3.8
1	1-N	252[A]	GLN	3.8
1	2-L	87[B]	CYS	3.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-N	252[B]	GLN	3.8
1	3-L	87[C]	CYS	3.8
1	3-N	252[C]	GLN	3.8
1	4-L	87[D]	CYS	3.8
1	4-N	252[D]	GLN	3.8
1	1-K	25[A]	ASP	3.8
1	2-K	25[B]	ASP	3.8
1	3-K	25[C]	ASP	3.8
1	4-K	25[D]	ASP	3.8
1	1-I	271[A]	GLU	3.8
1	2-I	271[B]	GLU	3.8
1	3-I	271[C]	GLU	3.8
1	4-I	271[D]	GLU	3.8
1	1-D	267[A]	LYS	3.8
1	2-D	267[B]	LYS	3.8
1	3-D	267[C]	LYS	3.8
1	4-D	267[D]	LYS	3.8
1	1-C	32[A]	ASN	3.8
1	1-I	104[A]	ASN	3.8
1	1-O	165[A]	THR	3.8
1	2-C	32[B]	ASN	3.8
1	2-I	104[B]	ASN	3.8
1	2-O	165[B]	THR	3.8
1	3-C	32[C]	ASN	3.8
1	3-I	104[C]	ASN	3.8
1	3-O	165[C]	THR	3.8
1	4-C	32[D]	ASN	3.8
1	4-I	104[D]	ASN	3.8
1	4-O	165[D]	THR	3.8
1	1-O	55[A]	ARG	3.8
1	2-O	55[B]	ARG	3.8
1	3-O	55[C]	ARG	3.8
1	4-O	55[D]	ARG	3.8
1	1-C	294[A]	GLY	3.8
1	1-L	27[A]	ILE	3.8
1	1-M	221[A]	GLY	3.8
1	2-C	294[B]	GLY	3.8
1	2-L	27[B]	ILE	3.8
1	2-M	221[B]	GLY	3.8
1	3-C	294[C]	GLY	3.8
1	3-L	27[C]	ILE	3.8
1	3-M	221[C]	GLY	3.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-C	294[D]	GLY	3.8
1	4-L	27[D]	ILE	3.8
1	4-M	221[D]	GLY	3.8
1	1-N	127[A]	TYR	3.7
1	2-N	127[B]	TYR	3.7
1	3-N	127[C]	TYR	3.7
1	4-N	127[D]	TYR	3.7
1	1-H	249[A]	PHE	3.7
1	1-H	266[A]	LEU	3.7
1	2-H	249[B]	PHE	3.7
1	1-O	180[A]	PRO	3.7
1	2-H	266[B]	LEU	3.7
1	3-H	249[C]	PHE	3.7
1	3-H	266[C]	LEU	3.7
1	4-H	249[D]	PHE	3.7
1	2-O	180[B]	PRO	3.7
1	3-O	180[C]	PRO	3.7
1	4-H	266[D]	LEU	3.7
1	4-O	180[D]	PRO	3.7
1	1-B	95[A]	SER	3.7
1	2-B	95[B]	SER	3.7
1	3-B	95[C]	SER	3.7
1	4-B	95[D]	SER	3.7
1	1-O	147[A]	GLY	3.7
1	2-O	147[B]	GLY	3.7
1	3-O	147[C]	GLY	3.7
1	4-O	147[D]	GLY	3.7
1	1-N	152[A]	GLN	3.7
1	2-N	152[B]	GLN	3.7
1	3-N	152[C]	GLN	3.7
1	4-N	152[D]	GLN	3.7
1	1-E	113[A]	VAL	3.7
1	1-J	312[A]	ASP	3.7
1	2-E	113[B]	VAL	3.7
1	2-J	312[B]	ASP	3.7
1	3-E	113[C]	VAL	3.7
1	3-J	312[C]	ASP	3.7
1	4-E	113[D]	VAL	3.7
1	4-J	312[D]	ASP	3.7
1	1-N	242[A]	THR	3.7
1	2-N	242[B]	THR	3.7
1	3-N	242[C]	THR	3.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-N	242[D]	THR	3.7
1	1-L	185[A]	PRO	3.7
1	2-L	185[B]	PRO	3.7
1	3-L	185[C]	PRO	3.7
1	4-L	185[D]	PRO	3.7
1	1-K	85[A]	SER	3.7
1	2-K	85[B]	SER	3.7
1	3-K	85[C]	SER	3.7
1	4-K	85[D]	SER	3.7
1	1-N	79[A]	GLU	3.7
1	2-N	79[B]	GLU	3.7
1	3-N	79[C]	GLU	3.7
1	4-N	79[D]	GLU	3.7
1	1-O	107[A]	LYS	3.7
1	2-O	107[B]	LYS	3.7
1	3-O	107[C]	LYS	3.7
1	4-O	107[D]	LYS	3.7
1	1-B	199[A]	PRO	3.7
1	2-B	199[B]	PRO	3.7
1	3-B	199[C]	PRO	3.7
1	4-B	199[D]	PRO	3.7
1	1-C	46[A]	VAL	3.7
1	1-J	156[A]	VAL	3.7
1	2-C	46[B]	VAL	3.7
1	2-J	156[B]	VAL	3.7
1	3-C	46[C]	VAL	3.7
1	3-J	156[C]	VAL	3.7
1	4-C	46[D]	VAL	3.7
1	4-J	156[D]	VAL	3.7
1	1-G	287[A]	GLU	3.7
1	1-P	220[A]	LEU	3.7
1	2-G	287[B]	GLU	3.7
1	2-P	220[B]	LEU	3.7
1	3-G	287[C]	GLU	3.7
1	3-P	220[C]	LEU	3.7
1	4-G	287[D]	GLU	3.7
1	4-P	220[D]	LEU	3.7
1	1-B	27[A]	ILE	3.7
1	1-I	285[A]	SER	3.7
1	1-K	79[A]	GLU	3.7
1	1-P	287[A]	GLU	3.7
1	2-B	27[B]	ILE	3.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-I	285[B]	SER	3.7
1	2-K	79[B]	GLU	3.7
1	2-P	287[B]	GLU	3.7
1	3-B	27[C]	ILE	3.7
1	3-I	285[C]	SER	3.7
1	3-K	79[C]	GLU	3.7
1	3-P	287[C]	GLU	3.7
1	4-B	27[D]	ILE	3.7
1	4-I	285[D]	SER	3.7
1	4-K	79[D]	GLU	3.7
1	4-P	287[D]	GLU	3.7
1	1-O	305[A]	TYR	3.7
1	2-O	305[B]	TYR	3.7
1	3-O	305[C]	TYR	3.7
1	4-O	305[D]	TYR	3.7
1	1-A	34[A]	GLY	3.7
1	1-N	151[A]	ASP	3.7
1	2-A	34[B]	GLY	3.7
1	2-N	151[B]	ASP	3.7
1	3-A	34[C]	GLY	3.7
1	3-N	151[C]	ASP	3.7
1	4-A	34[D]	GLY	3.7
1	4-N	151[D]	ASP	3.7
1	1-M	182[A]	MET	3.7
1	2-M	182[B]	MET	3.7
1	3-M	182[C]	MET	3.7
1	4-M	182[D]	MET	3.7
1	1-N	131[A]	TRP	3.7
1	2-N	131[B]	TRP	3.7
1	3-N	131[C]	TRP	3.7
1	4-N	131[D]	TRP	3.7
1	1-B	246[A]	PRO	3.7
1	2-B	246[B]	PRO	3.7
1	3-B	246[C]	PRO	3.7
1	4-B	246[D]	PRO	3.7
1	1-A	107[A]	LYS	3.7
1	1-I	235[A]	THR	3.7
1	2-A	107[B]	LYS	3.7
1	2-I	235[B]	THR	3.7
1	3-A	107[C]	LYS	3.7
1	3-I	235[C]	THR	3.7
1	4-A	107[D]	LYS	3.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-I	235[D]	THR	3.7
1	1-C	95[A]	SER	3.7
1	2-C	95[B]	SER	3.7
1	3-C	95[C]	SER	3.7
1	4-C	95[D]	SER	3.7
1	1-A	118[A]	ARG	3.7
1	2-A	118[B]	ARG	3.7
1	3-A	118[C]	ARG	3.7
1	4-A	118[D]	ARG	3.7
1	1-N	154[A]	GLN	3.7
1	2-N	154[B]	GLN	3.7
1	3-N	154[C]	GLN	3.7
1	4-N	154[D]	GLN	3.7
1	1-L	59[A]	ALA	3.7
1	1-L	275[A]	ARG	3.7
1	2-L	59[B]	ALA	3.7
1	2-L	275[B]	ARG	3.7
1	3-L	59[C]	ALA	3.7
1	3-L	275[C]	ARG	3.7
1	4-L	59[D]	ALA	3.7
1	4-L	275[D]	ARG	3.7
1	1-A	95[A]	SER	3.7
1	2-A	95[B]	SER	3.7
1	3-A	95[C]	SER	3.7
1	4-A	95[D]	SER	3.7
1	1-N	135[A]	GLY	3.7
1	1-P	175[A]	ASN	3.7
1	2-N	135[B]	GLY	3.7
1	2-P	175[B]	ASN	3.7
1	3-N	135[C]	GLY	3.7
1	3-P	175[C]	ASN	3.7
1	4-N	135[D]	GLY	3.7
1	4-P	175[D]	ASN	3.7
1	1-G	108[A]	GLU	3.7
1	2-G	108[B]	GLU	3.7
1	3-G	108[C]	GLU	3.7
1	4-G	108[D]	GLU	3.7
1	1-L	115[A]	LEU	3.6
1	2-L	115[B]	LEU	3.6
1	3-L	115[C]	LEU	3.6
1	4-L	115[D]	LEU	3.6
1	1-J	185[A]	PRO	3.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-J	185[B]	PRO	3.6
1	3-J	185[C]	PRO	3.6
1	4-J	185[D]	PRO	3.6
1	1-D	27[A]	ILE	3.6
1	1-L	77[A]	ILE	3.6
1	2-D	27[B]	ILE	3.6
1	2-L	77[B]	ILE	3.6
1	3-D	27[C]	ILE	3.6
1	3-L	77[C]	ILE	3.6
1	4-D	27[D]	ILE	3.6
1	4-L	77[D]	ILE	3.6
1	1-L	93[A]	LEU	3.6
1	2-L	93[B]	LEU	3.6
1	3-L	93[C]	LEU	3.6
1	4-L	93[D]	LEU	3.6
1	1-I	122[A]	ASP	3.6
1	2-I	122[B]	ASP	3.6
1	3-I	122[C]	ASP	3.6
1	4-I	122[D]	ASP	3.6
1	1-J	112[A]	LYS	3.6
1	1-K	159[A]	THR	3.6
1	1-L	290[A]	GLY	3.6
1	1-P	69[A]	LYS	3.6
1	2-J	112[B]	LYS	3.6
1	2-K	159[B]	THR	3.6
1	2-L	290[B]	GLY	3.6
1	2-P	69[B]	LYS	3.6
1	3-J	112[C]	LYS	3.6
1	3-K	159[C]	THR	3.6
1	3-L	290[C]	GLY	3.6
1	3-P	69[C]	LYS	3.6
1	4-J	112[D]	LYS	3.6
1	4-K	159[D]	THR	3.6
1	4-L	290[D]	GLY	3.6
1	4-P	69[D]	LYS	3.6
1	1-E	308[A]	TRP	3.6
1	2-E	308[B]	TRP	3.6
1	3-E	308[C]	TRP	3.6
1	4-E	308[D]	TRP	3.6
1	1-K	186[A]	PRO	3.6
1	2-K	186[B]	PRO	3.6
1	3-K	186[C]	PRO	3.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-K	186[D]	PRO	3.6
1	1-A	151[A]	ASP	3.6
1	1-M	166[A]	ASP	3.6
1	2-A	151[B]	ASP	3.6
1	2-M	166[B]	ASP	3.6
1	3-A	151[C]	ASP	3.6
1	3-M	166[C]	ASP	3.6
1	4-A	151[D]	ASP	3.6
1	4-M	166[D]	ASP	3.6
1	1-J	226[A]	PHE	3.6
1	2-J	226[B]	PHE	3.6
1	3-J	226[C]	PHE	3.6
1	4-J	226[D]	PHE	3.6
1	1-A	21[A]	TYR	3.6
1	2-A	21[B]	TYR	3.6
1	3-A	21[C]	TYR	3.6
1	4-A	21[D]	TYR	3.6
1	1-P	85[A]	SER	3.6
1	2-P	85[B]	SER	3.6
1	3-P	85[C]	SER	3.6
1	4-P	85[D]	SER	3.6
1	1-J	253[A]	MET	3.6
1	1-M	52[A]	PRO	3.6
1	1-M	60[A]	ASP	3.6
1	2-J	253[B]	MET	3.6
1	2-M	52[B]	PRO	3.6
1	2-M	60[B]	ASP	3.6
1	3-J	253[C]	MET	3.6
1	3-M	52[C]	PRO	3.6
1	3-M	60[C]	ASP	3.6
1	4-J	253[D]	MET	3.6
1	4-M	52[D]	PRO	3.6
1	4-M	60[D]	ASP	3.6
1	1-P	20[A]	GLU	3.6
1	2-P	20[B]	GLU	3.6
1	3-P	20[C]	GLU	3.6
1	4-P	20[D]	GLU	3.6
1	1-P	149[A]	GLY	3.6
1	2-P	149[B]	GLY	3.6
1	3-P	149[C]	GLY	3.6
1	4-P	149[D]	GLY	3.6
1	1-L	158[A]	ASP	3.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-L	158[B]	ASP	3.6
1	3-L	158[C]	ASP	3.6
1	4-L	158[D]	ASP	3.6
1	1-P	124[A]	GLY	3.6
1	1-C	190[A]	PHE	3.6
1	1-K	170[A]	ILE	3.6
1	2-P	124[B]	GLY	3.6
1	2-C	190[B]	PHE	3.6
1	2-K	170[B]	ILE	3.6
1	3-C	190[C]	PHE	3.6
1	3-K	170[C]	ILE	3.6
1	3-P	124[C]	GLY	3.6
1	4-C	190[D]	PHE	3.6
1	4-K	170[D]	ILE	3.6
1	4-P	124[D]	GLY	3.6
1	1-F	218[A]	CYS	3.6
1	1-J	110[A]	LEU	3.6
1	1-N	171[A]	LEU	3.6
1	2-F	218[B]	CYS	3.6
1	2-J	110[B]	LEU	3.6
1	2-N	171[B]	LEU	3.6
1	3-F	218[C]	CYS	3.6
1	3-J	110[C]	LEU	3.6
1	3-N	171[C]	LEU	3.6
1	4-F	218[D]	CYS	3.6
1	4-J	110[D]	LEU	3.6
1	4-N	171[D]	LEU	3.6
1	1-B	60[A]	ASP	3.6
1	1-P	89[A]	ASP	3.6
1	2-B	60[B]	ASP	3.6
1	2-P	89[B]	ASP	3.6
1	3-B	60[C]	ASP	3.6
1	3-P	89[C]	ASP	3.6
1	4-B	60[D]	ASP	3.6
1	4-P	89[D]	ASP	3.6
1	1-L	133[A]	HIS	3.6
1	2-L	133[B]	HIS	3.6
1	3-L	133[C]	HIS	3.6
1	4-L	133[D]	HIS	3.6
1	1-P	108[A]	GLU	3.6
1	2-P	108[B]	GLU	3.6
1	3-P	108[C]	GLU	3.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-P	108[D]	GLU	3.6
1	1-D	190[A]	PHE	3.5
1	1-E	98[A]	VAL	3.5
1	2-D	190[B]	PHE	3.5
1	2-E	98[B]	VAL	3.5
1	3-D	190[C]	PHE	3.5
1	3-E	98[C]	VAL	3.5
1	4-D	190[D]	PHE	3.5
1	4-E	98[D]	VAL	3.5
1	1-C	141[A]	ALA	3.5
1	2-C	141[B]	ALA	3.5
1	3-C	141[C]	ALA	3.5
1	4-C	141[D]	ALA	3.5
1	1-J	124[A]	GLY	3.5
1	2-J	124[B]	GLY	3.5
1	3-J	124[C]	GLY	3.5
1	4-J	124[D]	GLY	3.5
1	1-D	70[A]	ARG	3.5
1	2-D	70[B]	ARG	3.5
1	3-D	70[C]	ARG	3.5
1	4-D	70[D]	ARG	3.5
1	1-D	235[A]	THR	3.5
1	1-G	113[A]	VAL	3.5
1	2-D	235[B]	THR	3.5
1	2-G	113[B]	VAL	3.5
1	3-D	235[C]	THR	3.5
1	3-G	113[C]	VAL	3.5
1	4-D	235[D]	THR	3.5
1	4-G	113[D]	VAL	3.5
1	1-C	200[A]	ALA	3.5
1	2-C	200[B]	ALA	3.5
1	3-C	200[C]	ALA	3.5
1	4-C	200[D]	ALA	3.5
1	1-M	230[A]	SER	3.5
1	2-M	230[B]	SER	3.5
1	3-M	230[C]	SER	3.5
1	4-M	230[D]	SER	3.5
1	1-O	37[A]	ARG	3.5
1	2-O	37[B]	ARG	3.5
1	3-O	37[C]	ARG	3.5
1	4-O	37[D]	ARG	3.5
1	1-H	308[A]	TRP	3.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-M	212[A]	LEU	3.5
1	1-P	27[A]	ILE	3.5
1	2-H	308[B]	TRP	3.5
1	2-M	212[B]	LEU	3.5
1	2-P	27[B]	ILE	3.5
1	3-H	308[C]	TRP	3.5
1	3-M	212[C]	LEU	3.5
1	3-P	27[C]	ILE	3.5
1	4-H	308[D]	TRP	3.5
1	4-M	212[D]	LEU	3.5
1	4-P	27[D]	ILE	3.5
1	1-I	105[A]	GLY	3.5
1	2-I	105[B]	GLY	3.5
1	3-I	105[C]	GLY	3.5
1	4-I	105[D]	GLY	3.5
1	1-A	43[A]	THR	3.5
1	1-G	17[A]	ASP	3.5
1	1-I	242[A]	THR	3.5
1	2-A	43[B]	THR	3.5
1	2-G	17[B]	ASP	3.5
1	2-I	242[B]	THR	3.5
1	3-A	43[C]	THR	3.5
1	3-G	17[C]	ASP	3.5
1	3-I	242[C]	THR	3.5
1	4-A	43[D]	THR	3.5
1	4-G	17[D]	ASP	3.5
1	4-I	242[D]	THR	3.5
1	1-L	266[A]	LEU	3.5
1	2-L	266[B]	LEU	3.5
1	3-L	266[C]	LEU	3.5
1	4-L	266[D]	LEU	3.5
1	1-A	316[A]	SER	3.5
1	1-P	148[A]	LYS	3.5
1	2-A	316[B]	SER	3.5
1	2-P	148[B]	LYS	3.5
1	3-A	316[C]	SER	3.5
1	3-P	148[C]	LYS	3.5
1	4-A	316[D]	SER	3.5
1	4-P	148[D]	LYS	3.5
1	1-D	310[A]	LYS	3.5
1	1-F	97[A]	GLY	3.5
1	2-D	310[B]	LYS	3.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-F	97[B]	GLY	3.5
1	3-D	310[C]	LYS	3.5
1	3-F	97[C]	GLY	3.5
1	4-D	310[D]	LYS	3.5
1	4-F	97[D]	GLY	3.5
1	1-N	74[A]	ARG	3.5
1	2-N	74[B]	ARG	3.5
1	3-N	74[C]	ARG	3.5
1	4-N	74[D]	ARG	3.5
1	1-H	54[A]	PHE	3.5
1	2-H	54[B]	PHE	3.5
1	3-H	54[C]	PHE	3.5
1	4-H	54[D]	PHE	3.5
1	1-E	93[A]	LEU	3.5
1	2-E	93[B]	LEU	3.5
1	3-E	93[C]	LEU	3.5
1	4-E	93[D]	LEU	3.5
1	1-L	69[A]	LYS	3.5
1	2-L	69[B]	LYS	3.5
1	3-L	69[C]	LYS	3.5
1	4-L	69[D]	LYS	3.5
1	1-J	40[A]	ARG	3.5
1	1-J	97[A]	GLY	3.4
1	2-J	40[B]	ARG	3.5
1	2-J	97[B]	GLY	3.4
1	3-J	40[C]	ARG	3.5
1	3-J	97[C]	GLY	3.4
1	4-J	40[D]	ARG	3.5
1	4-J	97[D]	GLY	3.4
1	1-K	184[A]	LEU	3.4
1	1-O	47[A]	ALA	3.4
1	2-K	184[B]	LEU	3.4
1	2-O	47[B]	ALA	3.4
1	3-K	184[C]	LEU	3.4
1	3-O	47[C]	ALA	3.4
1	4-K	184[D]	LEU	3.4
1	4-O	47[D]	ALA	3.4
1	1-D	86[A]	GLY	3.4
1	2-D	86[B]	GLY	3.4
1	3-D	86[C]	GLY	3.4
1	4-D	86[D]	GLY	3.4
1	1-J	219[A]	ASP	3.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-J	219[B]	ASP	3.4
1	3-J	219[C]	ASP	3.4
1	4-J	219[D]	ASP	3.4
1	1-O	188[A]	HIS	3.4
1	2-O	188[B]	HIS	3.4
1	3-O	188[C]	HIS	3.4
1	4-O	188[D]	HIS	3.4
1	1-O	227[A]	ASN	3.4
1	2-O	227[B]	ASN	3.4
1	3-O	227[C]	ASN	3.4
1	4-O	227[D]	ASN	3.4
1	1-N	75[A]	GLY	3.4
1	2-N	75[B]	GLY	3.4
1	3-N	75[C]	GLY	3.4
1	4-N	75[D]	GLY	3.4
1	1-C	315[A]	MET	3.4
1	1-D	214[A]	TYR	3.4
1	2-C	315[B]	MET	3.4
1	2-D	214[B]	TYR	3.4
1	3-C	315[C]	MET	3.4
1	3-D	214[C]	TYR	3.4
1	4-C	315[D]	MET	3.4
1	4-D	214[D]	TYR	3.4
1	1-O	20[A]	GLU	3.4
1	2-O	20[B]	GLU	3.4
1	3-O	20[C]	GLU	3.4
1	4-O	20[D]	GLU	3.4
1	1-E	204[A]	GLY	3.4
1	1-F	143[A]	GLY	3.4
1	1-I	301[A]	VAL	3.4
1	1-L	215[A]	GLN	3.4
1	1-N	97[A]	GLY	3.4
1	2-E	204[B]	GLY	3.4
1	2-F	143[B]	GLY	3.4
1	2-I	301[B]	VAL	3.4
1	2-L	215[B]	GLN	3.4
1	2-N	97[B]	GLY	3.4
1	3-E	204[C]	GLY	3.4
1	3-F	143[C]	GLY	3.4
1	3-I	301[C]	VAL	3.4
1	3-L	215[C]	GLN	3.4
1	3-N	97[C]	GLY	3.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-E	204[D]	GLY	3.4
1	4-F	143[D]	GLY	3.4
1	4-I	301[D]	VAL	3.4
1	4-L	215[D]	GLN	3.4
1	4-N	97[D]	GLY	3.4
1	1-M	229[A]	ALA	3.4
1	2-M	229[B]	ALA	3.4
1	3-M	229[C]	ALA	3.4
1	4-M	229[D]	ALA	3.4
1	1-O	35[A]	GLU	3.4
1	2-O	35[B]	GLU	3.4
1	3-O	35[C]	GLU	3.4
1	4-O	35[D]	GLU	3.4
1	1-N	105[A]	GLY	3.4
1	2-N	105[B]	GLY	3.4
1	3-N	105[C]	GLY	3.4
1	4-N	105[D]	GLY	3.4
1	1-C	92[A]	MET	3.4
1	1-K	166[A]	ASP	3.4
1	1-O	140[A]	ASP	3.4
1	1-P	238[A]	ILE	3.4
1	2-C	92[B]	MET	3.4
1	2-K	166[B]	ASP	3.4
1	2-O	140[B]	ASP	3.4
1	2-P	238[B]	ILE	3.4
1	3-C	92[C]	MET	3.4
1	3-K	166[C]	ASP	3.4
1	3-O	140[C]	ASP	3.4
1	3-P	238[C]	ILE	3.4
1	4-C	92[D]	MET	3.4
1	4-K	166[D]	ASP	3.4
1	4-O	140[D]	ASP	3.4
1	4-P	238[D]	ILE	3.4
1	1-A	50[A]	ALA	3.4
1	1-F	309[A]	GLY	3.4
1	2-A	50[B]	ALA	3.4
1	2-F	309[B]	GLY	3.4
1	3-A	50[C]	ALA	3.4
1	3-F	309[C]	GLY	3.4
1	4-A	50[D]	ALA	3.4
1	4-F	309[D]	GLY	3.4
1	1-F	70[A]	ARG	3.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-F	70[B]	ARG	3.4
1	3-F	70[C]	ARG	3.4
1	4-F	70[D]	ARG	3.4
1	1-P	245[A]	GLU	3.4
1	2-P	245[B]	GLU	3.4
1	3-P	245[C]	GLU	3.4
1	4-P	245[D]	GLU	3.4
1	1-A	103[A]	GLY	3.4
1	1-B	309[A]	GLY	3.4
1	1-M	254[A]	GLY	3.4
1	1-N	102[A]	ASP	3.4
1	1-P	293[A]	ASP	3.4
1	2-A	103[B]	GLY	3.4
1	2-B	309[B]	GLY	3.4
1	2-M	254[B]	GLY	3.4
1	2-N	102[B]	ASP	3.4
1	2-P	293[B]	ASP	3.4
1	3-A	103[C]	GLY	3.4
1	3-B	309[C]	GLY	3.4
1	3-M	254[C]	GLY	3.4
1	3-N	102[C]	ASP	3.4
1	3-P	293[C]	ASP	3.4
1	4-A	103[D]	GLY	3.4
1	4-B	309[D]	GLY	3.4
1	4-M	254[D]	GLY	3.4
1	4-N	102[D]	ASP	3.4
1	4-P	293[D]	ASP	3.4
1	1-B	239[A]	ALA	3.4
1	2-B	239[B]	ALA	3.4
1	3-B	239[C]	ALA	3.4
1	4-B	239[D]	ALA	3.4
1	1-O	104[A]	ASN	3.3
1	2-O	104[B]	ASN	3.3
1	3-O	104[C]	ASN	3.3
1	4-O	104[D]	ASN	3.3
1	1-E	302[A]	VAL	3.3
1	1-P	98[A]	VAL	3.3
1	2-E	302[B]	VAL	3.3
1	2-P	98[B]	VAL	3.3
1	3-E	302[C]	VAL	3.3
1	3-P	98[C]	VAL	3.3
1	4-E	302[D]	VAL	3.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-P	98[D]	VAL	3.3
1	1-H	155[A]	ARG	3.3
1	2-H	155[B]	ARG	3.3
1	3-H	155[C]	ARG	3.3
1	4-H	155[D]	ARG	3.3
1	1-E	232[A]	ALA	3.3
1	2-E	232[B]	ALA	3.3
1	3-E	232[C]	ALA	3.3
1	4-E	232[D]	ALA	3.3
1	1-L	285[A]	SER	3.3
1	1-M	277[A]	PHE	3.3
1	2-L	285[B]	SER	3.3
1	2-M	277[B]	PHE	3.3
1	3-L	285[C]	SER	3.3
1	3-M	277[C]	PHE	3.3
1	4-L	285[D]	SER	3.3
1	4-M	277[D]	PHE	3.3
1	1-A	110[A]	LEU	3.3
1	1-C	51[A]	PRO	3.3
1	1-P	80[A]	LEU	3.3
1	2-A	110[B]	LEU	3.3
1	2-C	51[B]	PRO	3.3
1	2-P	80[B]	LEU	3.3
1	3-A	110[C]	LEU	3.3
1	3-C	51[C]	PRO	3.3
1	3-P	80[C]	LEU	3.3
1	4-A	110[D]	LEU	3.3
1	4-C	51[D]	PRO	3.3
1	4-P	80[D]	LEU	3.3
1	1-L	166[A]	ASP	3.3
1	2-L	166[B]	ASP	3.3
1	3-L	166[C]	ASP	3.3
1	4-L	166[D]	ASP	3.3
1	1-J	138[A]	TYR	3.3
1	1-L	286[A]	LYS	3.3
1	1-O	310[A]	LYS	3.3
1	2-J	138[B]	TYR	3.3
1	2-L	286[B]	LYS	3.3
1	2-O	310[B]	LYS	3.3
1	3-J	138[C]	TYR	3.3
1	3-L	286[C]	LYS	3.3
1	3-O	310[C]	LYS	3.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-J	138[D]	TYR	3.3
1	4-L	286[D]	LYS	3.3
1	4-O	310[D]	LYS	3.3
1	1-L	61[A]	ASN	3.3
1	2-L	61[B]	ASN	3.3
1	3-L	61[C]	ASN	3.3
1	4-L	61[D]	ASN	3.3
1	1-N	218[A]	CYS	3.3
1	2-N	218[B]	CYS	3.3
1	3-N	218[C]	CYS	3.3
1	4-N	218[D]	CYS	3.3
1	1-I	106[A]	SER	3.3
1	1-L	141[A]	ALA	3.3
1	1-N	230[A]	SER	3.3
1	2-I	106[B]	SER	3.3
1	2-L	141[B]	ALA	3.3
1	2-N	230[B]	SER	3.3
1	3-I	106[C]	SER	3.3
1	3-L	141[C]	ALA	3.3
1	3-N	230[C]	SER	3.3
1	4-I	106[D]	SER	3.3
1	4-L	141[D]	ALA	3.3
1	4-N	230[D]	SER	3.3
1	1-I	168[A]	ARG	3.3
1	2-I	168[B]	ARG	3.3
1	3-I	168[C]	ARG	3.3
1	4-I	168[D]	ARG	3.3
1	1-F	190[A]	PHE	3.3
1	1-M	69[A]	LYS	3.3
1	1-P	79[A]	GLU	3.3
1	2-F	190[B]	PHE	3.3
1	2-M	69[B]	LYS	3.3
1	2-P	79[B]	GLU	3.3
1	3-F	190[C]	PHE	3.3
1	3-M	69[C]	LYS	3.3
1	3-P	79[C]	GLU	3.3
1	4-F	190[D]	PHE	3.3
1	4-M	69[D]	LYS	3.3
1	4-P	79[D]	GLU	3.3
1	1-B	270[A]	LEU	3.3
1	1-J	179[A]	LEU	3.3
1	1-L	114[A]	GLY	3.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-B	270[B]	LEU	3.3
1	2-J	179[B]	LEU	3.3
1	2-L	114[B]	GLY	3.3
1	3-B	270[C]	LEU	3.3
1	3-J	179[C]	LEU	3.3
1	3-L	114[C]	GLY	3.3
1	4-B	270[D]	LEU	3.3
1	4-J	179[D]	LEU	3.3
1	4-L	114[D]	GLY	3.3
1	1-I	130[A]	GLN	3.3
1	2-I	130[B]	GLN	3.3
1	3-I	130[C]	GLN	3.3
1	4-I	130[D]	GLN	3.3
1	1-E	17[A]	ASP	3.3
1	1-O	274[A]	PRO	3.3
1	2-E	17[B]	ASP	3.3
1	2-O	274[B]	PRO	3.3
1	3-E	17[C]	ASP	3.3
1	3-O	274[C]	PRO	3.3
1	4-E	17[D]	ASP	3.3
1	4-O	274[D]	PRO	3.3
1	1-B	214[A]	TYR	3.3
1	1-H	200[A]	ALA	3.3
1	2-B	214[B]	TYR	3.3
1	2-H	200[B]	ALA	3.3
1	3-B	214[C]	TYR	3.3
1	3-H	200[C]	ALA	3.3
1	4-B	214[D]	TYR	3.3
1	4-H	200[D]	ALA	3.3
1	1-J	223[A]	GLY	3.3
1	1-N	83[A]	PHE	3.3
1	2-J	223[B]	GLY	3.3
1	2-N	83[B]	PHE	3.3
1	3-J	223[C]	GLY	3.3
1	3-N	83[C]	PHE	3.3
1	4-J	223[D]	GLY	3.3
1	4-N	83[D]	PHE	3.3
1	1-P	152[A]	GLN	3.3
1	2-P	152[B]	GLN	3.3
1	3-P	152[C]	GLN	3.3
1	4-P	152[D]	GLN	3.3
1	1-H	189[A]	MET	3.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-H	189[B]	MET	3.3
1	3-H	189[C]	MET	3.3
1	4-H	189[D]	MET	3.3
1	1-B	70[A]	ARG	3.3
1	1-E	63[A]	LEU	3.3
1	2-B	70[B]	ARG	3.3
1	2-E	63[B]	LEU	3.3
1	3-B	70[C]	ARG	3.3
1	3-E	63[C]	LEU	3.3
1	4-B	70[D]	ARG	3.3
1	4-E	63[D]	LEU	3.3
1	1-A	203[A]	PRO	3.2
1	2-A	203[B]	PRO	3.2
1	3-A	203[C]	PRO	3.2
1	4-A	203[D]	PRO	3.2
1	1-M	211[A]	CYS	3.2
1	2-M	211[B]	CYS	3.2
1	3-M	211[C]	CYS	3.2
1	4-M	211[D]	CYS	3.2
1	1-F	284[A]	ARG	3.2
1	2-F	284[B]	ARG	3.2
1	3-F	284[C]	ARG	3.2
1	4-F	284[D]	ARG	3.2
1	1-D	212[A]	LEU	3.2
1	2-D	212[B]	LEU	3.2
1	3-D	212[C]	LEU	3.2
1	4-D	212[D]	LEU	3.2
1	1-A	97[A]	GLY	3.2
1	1-F	155[A]	ARG	3.2
1	2-A	97[B]	GLY	3.2
1	2-F	155[B]	ARG	3.2
1	3-A	97[C]	GLY	3.2
1	3-F	155[C]	ARG	3.2
1	4-A	97[D]	GLY	3.2
1	4-F	155[D]	ARG	3.2
1	1-L	299[A]	ASP	3.2
1	2-L	299[B]	ASP	3.2
1	3-L	299[C]	ASP	3.2
1	4-L	299[D]	ASP	3.2
1	1-D	15[A]	ASN	3.2
1	2-D	15[B]	ASN	3.2
1	3-D	15[C]	ASN	3.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-D	15[D]	ASN	3.2
1	1-D	203[A]	PRO	3.2
1	2-D	203[B]	PRO	3.2
1	3-D	203[C]	PRO	3.2
1	4-D	203[D]	PRO	3.2
1	1-L	96[A]	GLN	3.2
1	2-L	96[B]	GLN	3.2
1	3-L	96[C]	GLN	3.2
1	4-L	96[D]	GLN	3.2
1	1-P	281[A]	LYS	3.2
1	2-P	281[B]	LYS	3.2
1	3-P	281[C]	LYS	3.2
1	4-P	281[D]	LYS	3.2
1	1-G	94[A]	SER	3.2
1	1-N	94[A]	SER	3.2
1	2-G	94[B]	SER	3.2
1	2-N	94[B]	SER	3.2
1	3-G	94[C]	SER	3.2
1	3-N	94[C]	SER	3.2
1	4-G	94[D]	SER	3.2
1	4-N	94[D]	SER	3.2
1	1-B	155[A]	ARG	3.2
1	2-B	155[B]	ARG	3.2
1	3-B	155[C]	ARG	3.2
1	4-B	155[D]	ARG	3.2
1	1-H	290[A]	GLY	3.2
1	2-H	290[B]	GLY	3.2
1	3-H	290[C]	GLY	3.2
1	4-H	290[D]	GLY	3.2
1	1-C	174[A]	TRP	3.2
1	2-C	174[B]	TRP	3.2
1	3-C	174[C]	TRP	3.2
1	4-C	174[D]	TRP	3.2
1	1-D	224[A]	VAL	3.2
1	2-D	224[B]	VAL	3.2
1	3-D	224[C]	VAL	3.2
1	4-D	224[D]	VAL	3.2
1	1-F	273[A]	GLU	3.2
1	2-F	273[B]	GLU	3.2
1	3-F	273[C]	GLU	3.2
1	4-F	273[D]	GLU	3.2
1	1-E	45[A]	THR	3.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-L	125[A]	PRO	3.2
1	2-E	45[B]	THR	3.2
1	2-L	125[B]	PRO	3.2
1	3-E	45[C]	THR	3.2
1	3-L	125[C]	PRO	3.2
1	4-E	45[D]	THR	3.2
1	4-L	125[D]	PRO	3.2
1	1-C	103[A]	GLY	3.2
1	2-C	103[B]	GLY	3.2
1	3-C	103[C]	GLY	3.2
1	4-C	103[D]	GLY	3.2
1	1-B	43[A]	THR	3.2
1	2-B	43[B]	THR	3.2
1	3-B	43[C]	THR	3.2
1	4-B	43[D]	THR	3.2
1	1-O	25[A]	ASP	3.2
1	2-O	25[B]	ASP	3.2
1	3-O	25[C]	ASP	3.2
1	4-O	25[D]	ASP	3.2
1	1-O	189[A]	MET	3.2
1	2-O	189[B]	MET	3.2
1	3-O	189[C]	MET	3.2
1	4-O	189[D]	MET	3.2
1	1-K	273[A]	GLU	3.2
1	2-K	273[B]	GLU	3.2
1	3-K	273[C]	GLU	3.2
1	4-K	273[D]	GLU	3.2
1	1-G	184[A]	LEU	3.2
1	2-G	184[B]	LEU	3.2
1	3-G	184[C]	LEU	3.2
1	4-G	184[D]	LEU	3.2
1	1-D	46[A]	VAL	3.2
1	2-D	46[B]	VAL	3.2
1	3-D	46[C]	VAL	3.2
1	4-D	46[D]	VAL	3.2
1	1-K	293[A]	ASP	3.2
1	2-K	293[B]	ASP	3.2
1	3-K	293[C]	ASP	3.2
1	4-K	293[D]	ASP	3.2
1	1-H	28[A]	ARG	3.1
1	2-H	28[B]	ARG	3.1
1	3-H	28[C]	ARG	3.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-H	28[D]	ARG	3.1
1	1-E	239[A]	ALA	3.1
1	1-K	90[A]	ALA	3.1
1	2-E	239[B]	ALA	3.1
1	2-K	90[B]	ALA	3.1
1	3-E	239[C]	ALA	3.1
1	3-K	90[C]	ALA	3.1
1	4-E	239[D]	ALA	3.1
1	4-K	90[D]	ALA	3.1
1	1-B	301[A]	VAL	3.1
1	1-L	84[A]	VAL	3.1
1	2-B	301[B]	VAL	3.1
1	2-L	84[B]	VAL	3.1
1	3-B	301[C]	VAL	3.1
1	3-L	84[C]	VAL	3.1
1	4-B	301[D]	VAL	3.1
1	4-L	84[D]	VAL	3.1
1	1-A	204[A]	GLY	3.1
1	1-E	124[A]	GLY	3.1
1	1-N	103[A]	GLY	3.1
1	2-A	204[B]	GLY	3.1
1	2-E	124[B]	GLY	3.1
1	2-N	103[B]	GLY	3.1
1	3-A	204[C]	GLY	3.1
1	3-E	124[C]	GLY	3.1
1	3-N	103[C]	GLY	3.1
1	4-A	204[D]	GLY	3.1
1	4-E	124[D]	GLY	3.1
1	4-N	103[D]	GLY	3.1
1	1-E	60[A]	ASP	3.1
1	1-P	296[A]	LYS	3.1
1	2-E	60[B]	ASP	3.1
1	2-P	296[B]	LYS	3.1
1	3-E	60[C]	ASP	3.1
1	3-P	296[C]	LYS	3.1
1	4-E	60[D]	ASP	3.1
1	4-P	296[D]	LYS	3.1
1	1-M	136[A]	ALA	3.1
1	1-C	139[A]	THR	3.1
1	1-C	223[A]	GLY	3.1
1	2-M	136[B]	ALA	3.1
1	2-C	139[B]	THR	3.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-C	223[B]	GLY	3.1
1	3-C	139[C]	THR	3.1
1	3-C	223[C]	GLY	3.1
1	3-M	136[C]	ALA	3.1
1	4-C	139[D]	THR	3.1
1	4-C	223[D]	GLY	3.1
1	4-M	136[D]	ALA	3.1
1	1-L	281[A]	LYS	3.1
1	2-L	281[B]	LYS	3.1
1	3-L	281[C]	LYS	3.1
1	4-L	281[D]	LYS	3.1
1	1-H	223[A]	GLY	3.1
1	1-I	275[A]	ARG	3.1
1	2-H	223[B]	GLY	3.1
1	2-I	275[B]	ARG	3.1
1	3-H	223[C]	GLY	3.1
1	3-I	275[C]	ARG	3.1
1	4-H	223[D]	GLY	3.1
1	4-I	275[D]	ARG	3.1
1	1-G	15[A]	ASN	3.1
1	2-G	15[B]	ASN	3.1
1	3-G	15[C]	ASN	3.1
1	4-G	15[D]	ASN	3.1
1	1-C	271[A]	GLU	3.1
1	1-K	303[A]	GLU	3.1
1	1-L	177[A]	LYS	3.1
1	2-C	271[B]	GLU	3.1
1	2-K	303[B]	GLU	3.1
1	2-L	177[B]	LYS	3.1
1	3-C	271[C]	GLU	3.1
1	3-K	303[C]	GLU	3.1
1	3-L	177[C]	LYS	3.1
1	4-C	271[D]	GLU	3.1
1	4-K	303[D]	GLU	3.1
1	4-L	177[D]	LYS	3.1
1	1-K	276[A]	ASP	3.1
1	2-K	276[B]	ASP	3.1
1	3-K	276[C]	ASP	3.1
1	4-K	276[D]	ASP	3.1
1	1-F	308[A]	TRP	3.1
1	2-F	308[B]	TRP	3.1
1	3-F	308[C]	TRP	3.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-F	308[D]	TRP	3.1
1	1-H	42[A]	GLY	3.1
1	1-N	42[A]	GLY	3.1
1	2-H	42[B]	GLY	3.1
1	2-N	42[B]	GLY	3.1
1	3-H	42[C]	GLY	3.1
1	3-N	42[C]	GLY	3.1
1	4-H	42[D]	GLY	3.1
1	4-N	42[D]	GLY	3.1
1	1-A	112[A]	LYS	3.1
1	1-D	162[A]	ASN	3.1
1	2-A	112[B]	LYS	3.1
1	2-D	162[B]	ASN	3.1
1	3-A	112[C]	LYS	3.1
1	3-D	162[C]	ASN	3.1
1	4-A	112[D]	LYS	3.1
1	4-D	162[D]	ASN	3.1
1	1-E	283[A]	ALA	3.1
1	1-N	90[A]	ALA	3.1
1	2-E	283[B]	ALA	3.1
1	2-N	90[B]	ALA	3.1
1	3-E	283[C]	ALA	3.1
1	3-N	90[C]	ALA	3.1
1	4-E	283[D]	ALA	3.1
1	4-N	90[D]	ALA	3.1
1	1-A	274[A]	PRO	3.1
1	1-L	307[A]	PRO	3.1
1	2-A	274[B]	PRO	3.1
1	2-L	307[B]	PRO	3.1
1	3-A	274[C]	PRO	3.1
1	3-L	307[C]	PRO	3.1
1	4-A	274[D]	PRO	3.1
1	4-L	307[D]	PRO	3.1
1	1-D	282[A]	TRP	3.1
1	2-D	282[B]	TRP	3.1
1	3-D	282[C]	TRP	3.1
1	4-D	282[D]	TRP	3.1
1	1-E	287[A]	GLU	3.1
1	1-K	210[A]	SER	3.1
1	1-M	279[A]	LYS	3.1
1	1-P	111[A]	GLU	3.1
1	2-E	287[B]	GLU	3.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-K	210[B]	SER	3.1
1	2-M	279[B]	LYS	3.1
1	2-P	111[B]	GLU	3.1
1	3-E	287[C]	GLU	3.1
1	3-K	210[C]	SER	3.1
1	3-M	279[C]	LYS	3.1
1	3-P	111[C]	GLU	3.1
1	4-E	287[D]	GLU	3.1
1	4-K	210[D]	SER	3.1
1	4-M	279[D]	LYS	3.1
1	4-P	111[D]	GLU	3.1
1	1-B	59[A]	ALA	3.1
1	2-B	59[B]	ALA	3.1
1	3-B	59[C]	ALA	3.1
1	4-B	59[D]	ALA	3.1
1	1-K	269[A]	GLN	3.1
1	1-B	267[A]	LYS	3.1
1	1-G	33[A]	VAL	3.1
1	1-G	98[A]	VAL	3.1
1	2-K	269[B]	GLN	3.1
1	2-B	267[B]	LYS	3.1
1	2-G	33[B]	VAL	3.1
1	2-G	98[B]	VAL	3.1
1	3-K	269[C]	GLN	3.1
1	3-B	267[C]	LYS	3.1
1	3-G	33[C]	VAL	3.1
1	3-G	98[C]	VAL	3.1
1	4-K	269[D]	GLN	3.1
1	4-B	267[D]	LYS	3.1
1	4-G	33[D]	VAL	3.1
1	4-G	98[D]	VAL	3.1
1	1-A	41[A]	THR	3.0
1	1-E	68[A]	THR	3.0
1	1-M	216[A]	ARG	3.0
1	2-A	41[B]	THR	3.0
1	2-E	68[B]	THR	3.0
1	2-M	216[B]	ARG	3.0
1	3-A	41[C]	THR	3.0
1	3-E	68[C]	THR	3.0
1	3-M	216[C]	ARG	3.0
1	4-A	41[D]	THR	3.0
1	4-E	68[D]	THR	3.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-M	216[D]	ARG	3.0
1	1-B	64[A]	PRO	3.0
1	2-B	64[B]	PRO	3.0
1	3-B	64[C]	PRO	3.0
1	4-B	64[D]	PRO	3.0
1	1-A	140[A]	ASP	3.0
1	1-P	122[A]	ASP	3.0
1	2-A	140[B]	ASP	3.0
1	2-P	122[B]	ASP	3.0
1	3-A	140[C]	ASP	3.0
1	3-P	122[C]	ASP	3.0
1	4-A	140[D]	ASP	3.0
1	4-P	122[D]	ASP	3.0
1	1-O	108[A]	GLU	3.0
1	2-O	108[B]	GLU	3.0
1	3-O	108[C]	GLU	3.0
1	4-O	108[D]	GLU	3.0
1	1-G	115[A]	LEU	3.0
1	2-G	115[B]	LEU	3.0
1	3-G	115[C]	LEU	3.0
1	4-G	115[D]	LEU	3.0
1	1-K	175[A]	ASN	3.0
1	2-K	175[B]	ASN	3.0
1	3-K	175[C]	ASN	3.0
1	4-K	175[D]	ASN	3.0
1	1-J	132[A]	ARG	3.0
1	1-K	20[A]	GLU	3.0
1	2-J	132[B]	ARG	3.0
1	2-K	20[B]	GLU	3.0
1	3-J	132[C]	ARG	3.0
1	3-K	20[C]	GLU	3.0
1	4-J	132[D]	ARG	3.0
1	4-K	20[D]	GLU	3.0
1	1-A	16[A]	PRO	3.0
1	1-A	38[A]	PRO	3.0
1	2-A	16[B]	PRO	3.0
1	2-A	38[B]	PRO	3.0
1	3-A	16[C]	PRO	3.0
1	3-A	38[C]	PRO	3.0
1	4-A	16[D]	PRO	3.0
1	4-A	38[D]	PRO	3.0
1	1-L	25[A]	ASP	3.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-L	291[A]	ASP	3.0
1	2-L	25[B]	ASP	3.0
1	2-L	291[B]	ASP	3.0
1	3-L	25[C]	ASP	3.0
1	3-L	291[C]	ASP	3.0
1	4-L	25[D]	ASP	3.0
1	4-L	291[D]	ASP	3.0
1	1-M	281[A]	LYS	3.0
1	2-M	281[B]	LYS	3.0
1	3-M	281[C]	LYS	3.0
1	4-M	281[D]	LYS	3.0
1	1-G	301[A]	VAL	3.0
1	2-G	301[B]	VAL	3.0
1	3-G	301[C]	VAL	3.0
1	4-G	301[D]	VAL	3.0
1	1-E	27[A]	ILE	3.0
1	1-F	169[A]	ILE	3.0
1	1-G	61[A]	ASN	3.0
1	2-E	27[B]	ILE	3.0
1	2-F	169[B]	ILE	3.0
1	2-G	61[B]	ASN	3.0
1	3-E	27[C]	ILE	3.0
1	3-F	169[C]	ILE	3.0
1	3-G	61[C]	ASN	3.0
1	4-E	27[D]	ILE	3.0
1	4-F	169[D]	ILE	3.0
1	4-G	61[D]	ASN	3.0
1	1-C	34[A]	GLY	3.0
1	2-C	34[B]	GLY	3.0
1	3-C	34[C]	GLY	3.0
1	4-C	34[D]	GLY	3.0
1	1-B	196[A]	SER	3.0
1	1-K	154[A]	GLN	3.0
1	2-B	196[B]	SER	3.0
1	2-K	154[B]	GLN	3.0
1	3-B	196[C]	SER	3.0
1	3-K	154[C]	GLN	3.0
1	4-B	196[D]	SER	3.0
1	4-K	154[D]	GLN	3.0
1	1-M	282[A]	TRP	3.0
1	2-M	282[B]	TRP	3.0
1	3-M	282[C]	TRP	3.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-M	282[D]	TRP	3.0
1	1-F	164[A]	PRO	3.0
1	1-G	180[A]	PRO	3.0
1	1-P	286[A]	LYS	3.0
1	2-F	164[B]	PRO	3.0
1	2-G	180[B]	PRO	3.0
1	2-P	286[B]	LYS	3.0
1	3-F	164[C]	PRO	3.0
1	3-G	180[C]	PRO	3.0
1	3-P	286[C]	LYS	3.0
1	4-F	164[D]	PRO	3.0
1	4-G	180[D]	PRO	3.0
1	4-P	286[D]	LYS	3.0
1	1-C	13[A]	ARG	3.0
1	1-G	187[A]	CYS	3.0
1	2-C	13[B]	ARG	3.0
1	2-G	187[B]	CYS	3.0
1	3-C	13[C]	ARG	3.0
1	3-G	187[C]	CYS	3.0
1	4-C	13[D]	ARG	3.0
1	4-G	187[D]	CYS	3.0
1	1-L	162[A]	ASN	3.0
1	2-L	162[B]	ASN	3.0
1	3-L	162[C]	ASN	3.0
1	4-L	162[D]	ASN	3.0
1	1-H	169[A]	ILE	3.0
1	2-H	169[B]	ILE	3.0
1	3-H	169[C]	ILE	3.0
1	4-H	169[D]	ILE	3.0
1	1-G	138[A]	TYR	2.9
1	1-L	122[A]	ASP	2.9
1	2-G	138[B]	TYR	2.9
1	2-L	122[B]	ASP	2.9
1	3-G	138[C]	TYR	2.9
1	3-L	122[C]	ASP	2.9
1	4-G	138[D]	TYR	2.9
1	4-L	122[D]	ASP	2.9
1	1-A	13[A]	ARG	2.9
1	1-K	275[A]	ARG	2.9
1	2-A	13[B]	ARG	2.9
1	2-K	275[B]	ARG	2.9
1	3-A	13[C]	ARG	2.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-K	275[C]	ARG	2.9
1	4-A	13[D]	ARG	2.9
1	4-K	275[D]	ARG	2.9
1	1-A	33[A]	VAL	2.9
1	1-L	244[A]	THR	2.9
1	2-A	33[B]	VAL	2.9
1	2-L	244[B]	THR	2.9
1	3-A	33[C]	VAL	2.9
1	3-L	244[C]	THR	2.9
1	4-A	33[D]	VAL	2.9
1	4-L	244[D]	THR	2.9
1	1-O	146[A]	LYS	2.9
1	2-O	146[B]	LYS	2.9
1	3-O	146[C]	LYS	2.9
1	4-O	146[D]	LYS	2.9
1	1-C	55[A]	ARG	2.9
1	2-C	55[B]	ARG	2.9
1	3-C	55[C]	ARG	2.9
1	4-C	55[D]	ARG	2.9
1	1-H	307[A]	PRO	2.9
1	2-H	307[B]	PRO	2.9
1	3-H	307[C]	PRO	2.9
1	4-H	307[D]	PRO	2.9
1	1-N	192[A]	GLN	2.9
1	2-N	192[B]	GLN	2.9
1	3-N	192[C]	GLN	2.9
1	4-N	192[D]	GLN	2.9
1	1-K	34[A]	GLY	2.9
1	1-O	103[A]	GLY	2.9
1	2-K	34[B]	GLY	2.9
1	2-O	103[B]	GLY	2.9
1	3-K	34[C]	GLY	2.9
1	3-O	103[C]	GLY	2.9
1	4-K	34[D]	GLY	2.9
1	4-O	103[D]	GLY	2.9
1	1-D	18[A]	HIS	2.9
1	2-D	18[B]	HIS	2.9
1	3-D	18[C]	HIS	2.9
1	4-D	18[D]	HIS	2.9
1	1-L	60[A]	ASP	2.9
1	2-L	60[B]	ASP	2.9
1	3-L	60[C]	ASP	2.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-L	60[D]	ASP	2.9
1	1-C	31[A]	ILE	2.9
1	2-C	31[B]	ILE	2.9
1	3-C	31[C]	ILE	2.9
1	4-C	31[D]	ILE	2.9
1	1-O	152[A]	GLN	2.9
1	2-O	152[B]	GLN	2.9
1	3-O	152[C]	GLN	2.9
1	4-O	152[D]	GLN	2.9
1	1-H	14[A]	SER	2.9
1	1-L	85[A]	SER	2.9
1	2-H	14[B]	SER	2.9
1	2-L	85[B]	SER	2.9
1	3-H	14[C]	SER	2.9
1	3-L	85[C]	SER	2.9
1	4-H	14[D]	SER	2.9
1	4-L	85[D]	SER	2.9
1	1-C	98[A]	VAL	2.9
1	2-C	98[B]	VAL	2.9
1	3-C	98[C]	VAL	2.9
1	4-C	98[D]	VAL	2.9
1	1-E	185[A]	PRO	2.9
1	2-E	185[B]	PRO	2.9
1	3-E	185[C]	PRO	2.9
1	4-E	185[D]	PRO	2.9
1	1-F	264[A]	GLU	2.9
1	1-K	314[A]	LYS	2.9
1	2-F	264[B]	GLU	2.9
1	2-K	314[B]	LYS	2.9
1	3-F	264[C]	GLU	2.9
1	3-K	314[C]	LYS	2.9
1	4-F	264[D]	GLU	2.9
1	4-K	314[D]	LYS	2.9
1	1-J	26[A]	LEU	2.9
1	2-J	26[B]	LEU	2.9
1	3-J	26[C]	LEU	2.9
1	4-J	26[D]	LEU	2.9
1	1-D	82[A]	TRP	2.9
1	2-D	82[B]	TRP	2.9
1	3-D	82[C]	TRP	2.9
1	4-D	82[D]	TRP	2.9
1	1-C	245[A]	GLU	2.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-D	176[A]	PRO	2.9
1	1-N	310[A]	LYS	2.9
1	2-C	245[B]	GLU	2.9
1	2-D	176[B]	PRO	2.9
1	2-N	310[B]	LYS	2.9
1	3-C	245[C]	GLU	2.9
1	3-D	176[C]	PRO	2.9
1	3-N	310[C]	LYS	2.9
1	4-C	245[D]	GLU	2.9
1	4-D	176[D]	PRO	2.9
1	4-N	310[D]	LYS	2.9
1	1-F	49[A]	PHE	2.9
1	1-G	226[A]	PHE	2.9
1	1-H	283[A]	ALA	2.9
1	1-N	134[A]	PHE	2.9
1	2-F	49[B]	PHE	2.9
1	2-G	226[B]	PHE	2.9
1	2-H	283[B]	ALA	2.9
1	2-N	134[B]	PHE	2.9
1	3-F	49[C]	PHE	2.9
1	3-G	226[C]	PHE	2.9
1	3-H	283[C]	ALA	2.9
1	3-N	134[C]	PHE	2.9
1	4-F	49[D]	PHE	2.9
1	4-G	226[D]	PHE	2.9
1	4-H	283[D]	ALA	2.9
1	4-N	134[D]	PHE	2.9
1	1-G	250[A]	ILE	2.9
1	2-G	250[B]	ILE	2.9
1	3-G	250[C]	ILE	2.9
1	4-G	250[D]	ILE	2.9
1	1-E	205[A]	SER	2.9
1	2-E	205[B]	SER	2.9
1	3-E	205[C]	SER	2.9
1	4-E	205[D]	SER	2.9
1	1-B	305[A]	TYR	2.9
1	1-F	279[A]	LYS	2.9
1	1-J	35[A]	GLU	2.9
1	2-B	305[B]	TYR	2.9
1	2-F	279[B]	LYS	2.9
1	2-J	35[B]	GLU	2.9
1	3-B	305[C]	TYR	2.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-F	279[C]	LYS	2.9
1	3-J	35[C]	GLU	2.9
1	4-B	305[D]	TYR	2.9
1	4-F	279[D]	LYS	2.9
1	4-J	35[D]	GLU	2.9
1	1-E	226[A]	PHE	2.9
1	1-G	103[A]	GLY	2.9
1	1-J	293[A]	ASP	2.9
1	1-P	25[A]	ASP	2.9
1	1-P	304[A]	GLY	2.9
1	2-E	226[B]	PHE	2.9
1	2-G	103[B]	GLY	2.9
1	2-J	293[B]	ASP	2.9
1	2-P	25[B]	ASP	2.9
1	2-P	304[B]	GLY	2.9
1	3-E	226[C]	PHE	2.9
1	3-G	103[C]	GLY	2.9
1	3-J	293[C]	ASP	2.9
1	3-P	25[C]	ASP	2.9
1	3-P	304[C]	GLY	2.9
1	4-E	226[D]	PHE	2.9
1	4-G	103[D]	GLY	2.9
1	4-J	293[D]	ASP	2.9
1	4-P	25[D]	ASP	2.9
1	4-P	304[D]	GLY	2.9
1	1-F	187[A]	CYS	2.9
1	2-F	187[B]	CYS	2.9
1	3-F	187[C]	CYS	2.9
1	4-F	187[D]	CYS	2.9
1	1-A	289[A]	ILE	2.9
1	1-B	58[A]	LEU	2.9
1	2-A	289[B]	ILE	2.9
1	2-B	58[B]	LEU	2.9
1	3-A	289[C]	ILE	2.9
1	3-B	58[C]	LEU	2.9
1	4-A	289[D]	ILE	2.9
1	4-B	58[D]	LEU	2.9
1	1-E	259[A]	TYR	2.9
1	2-E	259[B]	TYR	2.9
1	3-E	259[C]	TYR	2.9
1	4-E	259[D]	TYR	2.9
1	1-J	261[A]	ASP	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-J	261[B]	ASP	2.8
1	3-J	261[C]	ASP	2.8
1	4-J	261[D]	ASP	2.8
1	1-A	223[A]	GLY	2.8
1	1-C	97[A]	GLY	2.8
1	2-A	223[B]	GLY	2.8
1	2-C	97[B]	GLY	2.8
1	3-A	223[C]	GLY	2.8
1	3-C	97[C]	GLY	2.8
1	4-A	223[D]	GLY	2.8
1	4-C	97[D]	GLY	2.8
1	1-D	167[A]	ARG	2.8
1	1-I	119[A]	ARG	2.8
1	2-D	167[B]	ARG	2.8
1	2-I	119[B]	ARG	2.8
1	3-D	167[C]	ARG	2.8
1	3-I	119[C]	ARG	2.8
1	4-D	167[D]	ARG	2.8
1	4-I	119[D]	ARG	2.8
1	1-K	126[A]	VAL	2.8
1	2-K	126[B]	VAL	2.8
1	3-K	126[C]	VAL	2.8
1	4-K	126[D]	VAL	2.8
1	1-B	134[A]	PHE	2.8
1	1-D	277[A]	PHE	2.8
1	2-B	134[B]	PHE	2.8
1	2-D	277[B]	PHE	2.8
1	3-B	134[C]	PHE	2.8
1	3-D	277[C]	PHE	2.8
1	4-B	134[D]	PHE	2.8
1	4-D	277[D]	PHE	2.8
1	1-F	234[A]	LEU	2.8
1	2-F	234[B]	LEU	2.8
1	3-F	234[C]	LEU	2.8
1	4-F	234[D]	LEU	2.8
1	1-H	187[A]	CYS	2.8
1	2-H	187[B]	CYS	2.8
1	3-H	187[C]	CYS	2.8
1	4-H	187[D]	CYS	2.8
1	1-G	45[A]	THR	2.8
1	1-K	248[A]	GLU	2.8
1	1-L	161[A]	LYS	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-G	45[B]	THR	2.8
1	2-K	248[B]	GLU	2.8
1	2-L	161[B]	LYS	2.8
1	3-G	45[C]	THR	2.8
1	3-K	248[C]	GLU	2.8
1	3-L	161[C]	LYS	2.8
1	4-G	45[D]	THR	2.8
1	4-K	248[D]	GLU	2.8
1	4-L	161[D]	LYS	2.8
1	1-I	217[A]	SER	2.8
1	2-I	217[B]	SER	2.8
1	3-I	217[C]	SER	2.8
1	4-I	217[D]	SER	2.8
1	1-D	31[A]	ILE	2.8
1	1-D	45[A]	THR	2.8
1	2-D	31[B]	ILE	2.8
1	2-D	45[B]	THR	2.8
1	3-D	31[C]	ILE	2.8
1	3-D	45[C]	THR	2.8
1	4-D	31[D]	ILE	2.8
1	4-D	45[D]	THR	2.8
1	1-E	121[A]	GLY	2.8
1	1-G	121[A]	GLY	2.8
1	2-E	121[B]	GLY	2.8
1	2-G	121[B]	GLY	2.8
1	3-E	121[C]	GLY	2.8
1	3-G	121[C]	GLY	2.8
1	4-E	121[D]	GLY	2.8
1	4-G	121[D]	GLY	2.8
1	1-B	13[A]	ARG	2.8
1	2-B	13[B]	ARG	2.8
1	3-B	13[C]	ARG	2.8
1	4-B	13[D]	ARG	2.8
1	1-C	90[A]	ALA	2.8
1	1-H	229[A]	ALA	2.8
1	2-C	90[B]	ALA	2.8
1	2-H	229[B]	ALA	2.8
1	3-C	90[C]	ALA	2.8
1	3-H	229[C]	ALA	2.8
1	4-C	90[D]	ALA	2.8
1	4-H	229[D]	ALA	2.8
1	1-C	33[A]	VAL	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-C	33[B]	VAL	2.8
1	3-C	33[C]	VAL	2.8
1	4-C	33[D]	VAL	2.8
1	1-E	101[A]	TRP	2.8
1	2-E	101[B]	TRP	2.8
1	3-E	101[C]	TRP	2.8
1	4-E	101[D]	TRP	2.8
1	1-L	86[A]	GLY	2.8
1	1-O	97[A]	GLY	2.8
1	2-L	86[B]	GLY	2.8
1	2-O	97[B]	GLY	2.8
1	3-L	86[C]	GLY	2.8
1	3-O	97[C]	GLY	2.8
1	4-L	86[D]	GLY	2.8
1	4-O	97[D]	GLY	2.8
1	1-D	157[A]	ILE	2.8
1	1-E	100[A]	ILE	2.8
1	2-D	157[B]	ILE	2.8
1	2-E	100[B]	ILE	2.8
1	3-D	157[C]	ILE	2.8
1	3-E	100[C]	ILE	2.8
1	4-D	157[D]	ILE	2.8
1	4-E	100[D]	ILE	2.8
1	1-F	260[A]	ARG	2.8
1	1-H	260[A]	ARG	2.8
1	2-F	260[B]	ARG	2.8
1	2-H	260[B]	ARG	2.8
1	3-F	260[C]	ARG	2.8
1	3-H	260[C]	ARG	2.8
1	4-F	260[D]	ARG	2.8
1	4-H	260[D]	ARG	2.8
1	1-C	274[A]	PRO	2.8
1	2-C	274[B]	PRO	2.8
1	3-C	274[C]	PRO	2.8
1	4-C	274[D]	PRO	2.8
1	1-A	135[A]	GLY	2.8
1	2-A	135[B]	GLY	2.8
1	3-A	135[C]	GLY	2.8
1	4-A	135[D]	GLY	2.8
1	1-G	43[A]	THR	2.8
1	2-G	43[B]	THR	2.8
1	3-G	43[C]	THR	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-G	43[D]	THR	2.8
1	1-J	133[A]	HIS	2.8
1	2-J	133[B]	HIS	2.8
1	3-J	133[C]	HIS	2.8
1	4-J	133[D]	HIS	2.8
1	1-G	317[A]	ALA	2.8
1	2-G	317[B]	ALA	2.8
1	3-G	317[C]	ALA	2.8
1	4-G	317[D]	ALA	2.8
1	1-E	23[A]	TYR	2.8
1	2-E	23[B]	TYR	2.8
1	3-E	23[C]	TYR	2.8
1	4-E	23[D]	TYR	2.8
1	1-B	97[A]	GLY	2.8
1	2-B	97[B]	GLY	2.8
1	3-B	97[C]	GLY	2.8
1	4-B	97[D]	GLY	2.8
1	1-A	92[A]	MET	2.7
1	1-L	237[A]	MET	2.7
1	2-A	92[B]	MET	2.7
1	2-L	237[B]	MET	2.7
1	3-A	92[C]	MET	2.7
1	3-L	237[C]	MET	2.7
1	4-A	92[D]	MET	2.7
1	4-L	237[D]	MET	2.7
1	1-J	170[A]	ILE	2.7
1	2-J	170[B]	ILE	2.7
1	3-J	170[C]	ILE	2.7
1	4-J	170[D]	ILE	2.7
1	1-C	38[A]	PRO	2.7
1	2-C	38[B]	PRO	2.7
1	3-C	38[C]	PRO	2.7
1	4-C	38[D]	PRO	2.7
1	1-H	279[A]	LYS	2.7
1	2-H	279[B]	LYS	2.7
1	3-H	279[C]	LYS	2.7
1	4-H	279[D]	LYS	2.7
1	1-H	13[A]	ARG	2.7
1	2-H	13[B]	ARG	2.7
1	3-H	13[C]	ARG	2.7
1	4-H	13[D]	ARG	2.7
1	1-B	21[A]	TYR	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-F	290[A]	GLY	2.7
1	1-N	128[A]	GLY	2.7
1	2-B	21[B]	TYR	2.7
1	2-F	290[B]	GLY	2.7
1	2-N	128[B]	GLY	2.7
1	3-B	21[C]	TYR	2.7
1	3-F	290[C]	GLY	2.7
1	3-N	128[C]	GLY	2.7
1	4-B	21[D]	TYR	2.7
1	4-F	290[D]	GLY	2.7
1	4-N	128[D]	GLY	2.7
1	1-F	15[A]	ASN	2.7
1	2-F	15[B]	ASN	2.7
1	3-F	15[C]	ASN	2.7
1	4-F	15[D]	ASN	2.7
1	1-B	57[A]	SER	2.7
1	1-B	206[A]	LYS	2.7
1	1-K	69[A]	LYS	2.7
1	2-B	57[B]	SER	2.7
1	2-B	206[B]	LYS	2.7
1	2-K	69[B]	LYS	2.7
1	3-B	57[C]	SER	2.7
1	3-B	206[C]	LYS	2.7
1	3-K	69[C]	LYS	2.7
1	3-D	265[C]	PRO	2.7
1	4-B	57[D]	SER	2.7
1	4-B	206[D]	LYS	2.7
1	4-K	69[D]	LYS	2.7
1	1-D	265[A]	PRO	2.7
1	2-D	265[B]	PRO	2.7
1	4-D	265[D]	PRO	2.7
1	1-D	116[A]	GLY	2.7
1	1-G	97[A]	GLY	2.7
1	2-D	116[B]	GLY	2.7
1	2-G	97[B]	GLY	2.7
1	3-D	116[C]	GLY	2.7
1	3-G	97[C]	GLY	2.7
1	4-D	116[D]	GLY	2.7
1	4-G	97[D]	GLY	2.7
1	1-C	107[A]	LYS	2.7
1	1-E	137[A]	GLU	2.7
1	1-G	193[A]	PHE	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-C	107[B]	LYS	2.7
1	2-E	137[B]	GLU	2.7
1	2-G	193[B]	PHE	2.7
1	3-C	107[C]	LYS	2.7
1	3-E	137[C]	GLU	2.7
1	3-G	193[C]	PHE	2.7
1	4-C	107[D]	LYS	2.7
1	4-E	137[D]	GLU	2.7
1	4-G	193[D]	PHE	2.7
1	1-E	33[A]	VAL	2.7
1	2-E	33[B]	VAL	2.7
1	3-E	33[C]	VAL	2.7
1	4-E	33[D]	VAL	2.7
1	1-E	184[A]	LEU	2.7
1	1-E	251[A]	LEU	2.7
1	2-E	184[B]	LEU	2.7
1	2-E	251[B]	LEU	2.7
1	3-E	184[C]	LEU	2.7
1	3-E	251[C]	LEU	2.7
1	4-E	184[D]	LEU	2.7
1	4-E	251[D]	LEU	2.7
1	1-L	89[A]	ASP	2.7
1	1-N	124[A]	GLY	2.7
1	2-L	89[B]	ASP	2.7
1	2-N	124[B]	GLY	2.7
1	3-L	89[C]	ASP	2.7
1	3-N	124[C]	GLY	2.7
1	4-L	89[D]	ASP	2.7
1	4-N	124[D]	GLY	2.7
1	1-G	139[A]	THR	2.7
1	2-G	139[B]	THR	2.7
1	3-G	139[C]	THR	2.7
1	4-G	139[D]	THR	2.7
1	1-A	263[A]	VAL	2.7
1	1-J	76[A]	VAL	2.7
1	2-A	263[B]	VAL	2.7
1	2-J	76[B]	VAL	2.7
1	3-A	263[C]	VAL	2.7
1	3-J	76[C]	VAL	2.7
1	4-A	263[D]	VAL	2.7
1	4-J	76[D]	VAL	2.7
1	1-J	34[A]	GLY	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-J	34[B]	GLY	2.7
1	3-J	34[C]	GLY	2.7
1	4-J	34[D]	GLY	2.7
1	1-B	298[A]	GLU	2.7
1	1-L	296[A]	LYS	2.7
1	2-B	298[B]	GLU	2.7
1	2-L	296[B]	LYS	2.7
1	3-B	298[C]	GLU	2.7
1	3-L	296[C]	LYS	2.7
1	4-B	298[D]	GLU	2.7
1	4-L	296[D]	LYS	2.7
1	1-H	239[A]	ALA	2.7
1	2-H	239[B]	ALA	2.7
1	3-H	239[C]	ALA	2.7
1	4-H	239[D]	ALA	2.7
1	1-P	165[A]	THR	2.7
1	2-P	165[B]	THR	2.7
1	3-P	165[C]	THR	2.7
1	4-P	165[D]	THR	2.7
1	1-H	287[A]	GLU	2.7
1	1-I	149[A]	GLY	2.7
1	1-L	20[A]	GLU	2.7
1	2-H	287[B]	GLU	2.7
1	2-I	149[B]	GLY	2.7
1	2-L	20[B]	GLU	2.7
1	3-H	287[C]	GLU	2.7
1	3-I	149[C]	GLY	2.7
1	3-L	20[C]	GLU	2.7
1	4-H	287[D]	GLU	2.7
1	4-I	149[D]	GLY	2.7
1	4-L	20[D]	GLU	2.7
1	1-C	266[A]	LEU	2.7
1	2-C	266[B]	LEU	2.7
1	3-C	266[C]	LEU	2.7
1	4-C	266[D]	LEU	2.7
1	1-E	43[A]	THR	2.7
1	2-E	43[B]	THR	2.7
1	3-E	43[C]	THR	2.7
1	4-E	43[D]	THR	2.7
1	1-H	295[A]	PHE	2.7
1	2-H	295[B]	PHE	2.7
1	3-H	295[C]	PHE	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-H	295[D]	PHE	2.7
1	1-A	81[A]	LEU	2.7
1	1-C	81[A]	LEU	2.7
1	1-O	270[A]	LEU	2.7
1	2-A	81[B]	LEU	2.7
1	2-C	81[B]	LEU	2.7
1	2-O	270[B]	LEU	2.7
1	3-A	81[C]	LEU	2.7
1	3-C	81[C]	LEU	2.7
1	3-O	270[C]	LEU	2.7
1	4-A	81[D]	LEU	2.7
1	4-C	81[D]	LEU	2.7
1	4-O	270[D]	LEU	2.7
1	1-O	253[A]	MET	2.6
1	2-O	253[B]	MET	2.6
1	3-O	253[C]	MET	2.6
1	4-O	253[D]	MET	2.6
1	1-A	285[A]	SER	2.6
1	2-A	285[B]	SER	2.6
1	3-A	285[C]	SER	2.6
1	4-A	285[D]	SER	2.6
1	1-L	304[A]	GLY	2.6
1	1-P	254[A]	GLY	2.6
1	2-L	304[B]	GLY	2.6
1	2-P	254[B]	GLY	2.6
1	3-L	304[C]	GLY	2.6
1	3-P	254[C]	GLY	2.6
1	4-L	304[D]	GLY	2.6
1	4-P	254[D]	GLY	2.6
1	1-C	109[A]	PHE	2.6
1	1-D	305[A]	TYR	2.6
1	1-H	259[A]	TYR	2.6
1	2-C	109[B]	PHE	2.6
1	2-D	305[B]	TYR	2.6
1	2-H	259[B]	TYR	2.6
1	3-C	109[C]	PHE	2.6
1	3-D	305[C]	TYR	2.6
1	3-H	259[C]	TYR	2.6
1	4-C	109[D]	PHE	2.6
1	4-D	305[D]	TYR	2.6
1	4-H	259[D]	TYR	2.6
1	1-H	218[A]	CYS	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-H	218[B]	CYS	2.6
1	3-H	218[C]	CYS	2.6
1	4-H	218[D]	CYS	2.6
1	1-G	312[A]	ASP	2.6
1	2-G	312[B]	ASP	2.6
1	3-G	312[C]	ASP	2.6
1	4-G	312[D]	ASP	2.6
1	1-B	176[A]	PRO	2.6
1	1-G	239[A]	ALA	2.6
1	2-B	176[B]	PRO	2.6
1	2-G	239[B]	ALA	2.6
1	3-B	176[C]	PRO	2.6
1	3-G	239[C]	ALA	2.6
1	4-B	176[D]	PRO	2.6
1	4-G	239[D]	ALA	2.6
1	1-A	131[A]	TRP	2.6
1	1-E	82[A]	TRP	2.6
1	1-G	82[A]	TRP	2.6
1	2-A	131[B]	TRP	2.6
1	2-E	82[B]	TRP	2.6
1	2-G	82[B]	TRP	2.6
1	3-A	131[C]	TRP	2.6
1	3-E	82[C]	TRP	2.6
1	3-G	82[C]	TRP	2.6
1	4-A	131[D]	TRP	2.6
1	4-E	82[D]	TRP	2.6
1	4-G	82[D]	TRP	2.6
1	1-L	279[A]	LYS	2.6
1	2-L	279[B]	LYS	2.6
1	3-L	279[C]	LYS	2.6
1	4-L	279[D]	LYS	2.6
1	1-E	109[A]	PHE	2.6
1	2-E	109[B]	PHE	2.6
1	3-E	109[C]	PHE	2.6
1	4-E	109[D]	PHE	2.6
1	1-I	59[A]	ALA	2.6
1	2-I	59[B]	ALA	2.6
1	3-I	59[C]	ALA	2.6
1	4-I	59[D]	ALA	2.6
1	1-E	235[A]	THR	2.6
1	1-O	223[A]	GLY	2.6
1	2-E	235[B]	THR	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-O	223[B]	GLY	2.6
1	3-E	235[C]	THR	2.6
1	3-O	223[C]	GLY	2.6
1	4-E	235[D]	THR	2.6
1	4-O	223[D]	GLY	2.6
1	1-C	112[A]	LYS	2.6
1	2-C	112[B]	LYS	2.6
1	3-C	112[C]	LYS	2.6
1	4-C	112[D]	LYS	2.6
1	1-F	56[A]	PHE	2.6
1	1-H	49[A]	PHE	2.6
1	2-F	56[B]	PHE	2.6
1	2-H	49[B]	PHE	2.6
1	3-F	56[C]	PHE	2.6
1	3-H	49[C]	PHE	2.6
1	4-F	56[D]	PHE	2.6
1	4-H	49[D]	PHE	2.6
1	1-A	225[A]	PRO	2.6
1	1-C	118[A]	ARG	2.6
1	2-A	225[B]	PRO	2.6
1	2-C	118[B]	ARG	2.6
1	3-A	225[C]	PRO	2.6
1	3-C	118[C]	ARG	2.6
1	4-A	225[D]	PRO	2.6
1	4-C	118[D]	ARG	2.6
1	1-B	156[A]	VAL	2.6
1	1-E	266[A]	LEU	2.6
1	2-B	156[B]	VAL	2.6
1	2-E	266[B]	LEU	2.6
1	3-B	156[C]	VAL	2.6
1	3-E	266[C]	LEU	2.6
1	4-B	156[D]	VAL	2.6
1	4-E	266[D]	LEU	2.6
1	1-G	124[A]	GLY	2.6
1	2-G	124[B]	GLY	2.6
1	3-G	124[C]	GLY	2.6
1	4-G	124[D]	GLY	2.6
1	1-A	265[A]	PRO	2.6
1	2-A	265[B]	PRO	2.6
1	3-A	265[C]	PRO	2.6
1	4-A	265[D]	PRO	2.6
1	1-A	236[A]	HIS	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-B	76[A]	VAL	2.6
1	1-G	99[A]	GLY	2.6
1	1-H	71[A]	VAL	2.6
1	2-A	236[B]	HIS	2.6
1	2-B	76[B]	VAL	2.6
1	2-G	99[B]	GLY	2.6
1	2-H	71[B]	VAL	2.6
1	3-A	236[C]	HIS	2.6
1	3-B	76[C]	VAL	2.6
1	3-G	99[C]	GLY	2.6
1	3-H	71[C]	VAL	2.6
1	4-A	236[D]	HIS	2.6
1	4-B	76[D]	VAL	2.6
1	4-G	99[D]	GLY	2.6
1	4-H	71[D]	VAL	2.6
1	1-D	165[A]	THR	2.6
1	1-N	136[A]	ALA	2.6
1	2-D	165[B]	THR	2.6
1	2-N	136[B]	ALA	2.6
1	3-D	165[C]	THR	2.6
1	3-N	136[C]	ALA	2.6
1	4-D	165[D]	THR	2.6
1	4-N	136[D]	ALA	2.6
1	1-A	120[A]	GLU	2.6
1	1-B	164[A]	PRO	2.6
1	2-A	120[B]	GLU	2.6
1	2-B	164[B]	PRO	2.6
1	3-A	120[C]	GLU	2.6
1	3-B	164[C]	PRO	2.6
1	4-A	120[D]	GLU	2.6
1	4-B	164[D]	PRO	2.6
1	1-E	193[A]	PHE	2.6
1	2-E	193[B]	PHE	2.6
1	3-E	193[C]	PHE	2.6
1	4-E	193[D]	PHE	2.6
1	1-D	21[A]	TYR	2.6
1	2-D	21[B]	TYR	2.6
1	3-D	21[C]	TYR	2.6
1	4-D	21[D]	TYR	2.6
1	1-B	33[A]	VAL	2.6
1	1-E	179[A]	LEU	2.6
1	1-H	84[A]	VAL	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-B	33[B]	VAL	2.6
1	2-E	179[B]	LEU	2.6
1	2-H	84[B]	VAL	2.6
1	3-B	33[C]	VAL	2.6
1	3-E	179[C]	LEU	2.6
1	3-H	84[C]	VAL	2.6
1	4-B	33[D]	VAL	2.6
1	4-E	179[D]	LEU	2.6
1	4-H	84[D]	VAL	2.6
1	1-H	43[A]	THR	2.6
1	2-H	43[B]	THR	2.6
1	3-H	43[C]	THR	2.6
1	4-H	43[D]	THR	2.6
1	1-E	107[A]	LYS	2.6
1	2-E	107[B]	LYS	2.6
1	3-E	107[C]	LYS	2.6
1	4-E	107[D]	LYS	2.6
1	1-A	259[A]	TYR	2.5
1	2-A	259[B]	TYR	2.5
1	3-A	259[C]	TYR	2.5
1	4-A	259[D]	TYR	2.5
1	1-G	46[A]	VAL	2.5
1	2-G	46[B]	VAL	2.5
1	3-G	46[C]	VAL	2.5
1	4-G	46[D]	VAL	2.5
1	1-D	199[A]	PRO	2.5
1	1-O	125[A]	PRO	2.5
1	2-D	199[B]	PRO	2.5
1	2-O	125[B]	PRO	2.5
1	3-D	199[C]	PRO	2.5
1	3-O	125[C]	PRO	2.5
1	4-D	199[D]	PRO	2.5
1	4-O	125[D]	PRO	2.5
1	1-A	128[A]	GLY	2.5
1	1-B	31[A]	ILE	2.5
1	1-K	230[A]	SER	2.5
1	2-A	128[B]	GLY	2.5
1	2-B	31[B]	ILE	2.5
1	2-K	230[B]	SER	2.5
1	3-A	128[C]	GLY	2.5
1	3-B	31[C]	ILE	2.5
1	3-K	230[C]	SER	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-A	128[D]	GLY	2.5
1	4-B	31[D]	ILE	2.5
1	4-K	230[D]	SER	2.5
1	1-B	32[A]	ASN	2.5
1	1-H	227[A]	ASN	2.5
1	2-B	32[B]	ASN	2.5
1	2-H	227[B]	ASN	2.5
1	3-B	32[C]	ASN	2.5
1	3-H	227[C]	ASN	2.5
1	4-B	32[D]	ASN	2.5
1	4-H	227[D]	ASN	2.5
1	1-A	277[A]	PHE	2.5
1	1-C	277[A]	PHE	2.5
1	2-A	277[B]	PHE	2.5
1	2-C	277[B]	PHE	2.5
1	3-A	277[C]	PHE	2.5
1	3-C	277[C]	PHE	2.5
1	4-A	277[D]	PHE	2.5
1	4-C	277[D]	PHE	2.5
1	1-C	197[A]	LEU	2.5
1	2-C	197[B]	LEU	2.5
1	3-C	197[C]	LEU	2.5
1	4-C	197[D]	LEU	2.5
1	1-D	228[A]	ILE	2.5
1	1-J	213[A]	MET	2.5
1	2-D	228[B]	ILE	2.5
1	2-J	213[B]	MET	2.5
1	3-D	228[C]	ILE	2.5
1	3-J	213[C]	MET	2.5
1	4-D	228[D]	ILE	2.5
1	4-J	213[D]	MET	2.5
1	1-A	300[A]	PHE	2.5
1	2-A	300[B]	PHE	2.5
1	3-A	300[C]	PHE	2.5
1	4-A	300[D]	PHE	2.5
1	1-K	223[A]	GLY	2.5
1	2-K	223[B]	GLY	2.5
1	3-K	223[C]	GLY	2.5
1	4-K	223[D]	GLY	2.5
1	1-B	228[A]	ILE	2.5
1	2-B	228[B]	ILE	2.5
1	3-B	228[C]	ILE	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-B	228[D]	ILE	2.5
1	1-B	194[A]	PHE	2.5
1	1-D	260[A]	ARG	2.5
1	1-I	120[A]	GLU	2.5
1	2-B	194[B]	PHE	2.5
1	2-D	260[B]	ARG	2.5
1	2-I	120[B]	GLU	2.5
1	3-B	194[C]	PHE	2.5
1	3-D	260[C]	ARG	2.5
1	3-I	120[C]	GLU	2.5
1	4-B	194[D]	PHE	2.5
1	4-D	260[D]	ARG	2.5
1	4-I	120[D]	GLU	2.5
1	1-D	247[A]	HIS	2.5
1	1-G	116[A]	GLY	2.5
1	2-D	247[B]	HIS	2.5
1	2-G	116[B]	GLY	2.5
1	3-D	247[C]	HIS	2.5
1	3-G	116[C]	GLY	2.5
1	4-D	247[D]	HIS	2.5
1	4-G	116[D]	GLY	2.5
1	1-G	302[A]	VAL	2.5
1	2-G	302[B]	VAL	2.5
1	3-G	302[C]	VAL	2.5
1	4-G	302[D]	VAL	2.5
1	1-J	313[A]	MET	2.5
1	2-J	313[B]	MET	2.5
1	3-J	313[C]	MET	2.5
1	4-J	313[D]	MET	2.5
1	1-G	218[A]	CYS	2.5
1	2-G	218[B]	CYS	2.5
1	3-G	218[C]	CYS	2.5
1	4-G	218[D]	CYS	2.5
1	1-D	30[A]	ILE	2.5
1	1-D	312[A]	ASP	2.5
1	1-H	142[A]	ASP	2.5
1	2-D	30[B]	ILE	2.5
1	2-D	312[B]	ASP	2.5
1	2-H	142[B]	ASP	2.5
1	3-D	30[C]	ILE	2.5
1	3-D	312[C]	ASP	2.5
1	3-H	142[C]	ASP	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-D	30[D]	ILE	2.5
1	4-D	312[D]	ASP	2.5
1	4-H	142[D]	ASP	2.5
1	1-B	207[A]	PRO	2.5
1	2-B	207[B]	PRO	2.5
1	3-B	207[C]	PRO	2.5
1	4-B	207[D]	PRO	2.5
1	1-B	47[A]	ALA	2.5
1	1-J	44[A]	GLY	2.5
1	2-B	47[B]	ALA	2.5
1	2-J	44[B]	GLY	2.5
1	3-B	47[C]	ALA	2.5
1	3-J	44[C]	GLY	2.5
1	4-B	47[D]	ALA	2.5
1	4-J	44[D]	GLY	2.5
1	1-C	21[A]	TYR	2.5
1	1-F	146[A]	LYS	2.5
1	2-C	21[B]	TYR	2.5
1	2-F	146[B]	LYS	2.5
1	3-C	21[C]	TYR	2.5
1	3-F	146[C]	LYS	2.5
1	4-C	21[D]	TYR	2.5
1	4-F	146[D]	LYS	2.5
1	1-G	308[A]	TRP	2.5
1	2-G	308[B]	TRP	2.5
1	3-G	308[C]	TRP	2.5
1	4-G	308[D]	TRP	2.5
1	1-J	265[A]	PRO	2.5
1	2-J	265[B]	PRO	2.5
1	3-J	265[C]	PRO	2.5
1	4-J	265[D]	PRO	2.5
1	1-A	114[A]	GLY	2.4
1	1-G	105[A]	GLY	2.4
1	1-G	304[A]	GLY	2.4
1	2-A	114[B]	GLY	2.4
1	2-G	105[B]	GLY	2.4
1	2-G	304[B]	GLY	2.4
1	3-A	114[C]	GLY	2.4
1	3-G	105[C]	GLY	2.4
1	3-G	304[C]	GLY	2.4
1	4-A	114[D]	GLY	2.4
1	4-G	105[D]	GLY	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-G	304[D]	GLY	2.4
1	1-H	32[A]	ASN	2.4
1	2-H	32[B]	ASN	2.4
1	3-H	32[C]	ASN	2.4
1	4-H	32[D]	ASN	2.4
1	1-A	271[A]	GLU	2.4
1	1-C	202[A]	SER	2.4
1	1-G	120[A]	GLU	2.4
1	2-A	271[B]	GLU	2.4
1	2-C	202[B]	SER	2.4
1	2-G	120[B]	GLU	2.4
1	3-A	271[C]	GLU	2.4
1	3-C	202[C]	SER	2.4
1	3-G	120[C]	GLU	2.4
1	4-A	271[D]	GLU	2.4
1	4-C	202[D]	SER	2.4
1	4-G	120[D]	GLU	2.4
1	1-C	26[A]	LEU	2.4
1	1-D	66[A]	LEU	2.4
1	1-G	272[A]	ARG	2.4
1	2-C	26[B]	LEU	2.4
1	2-D	66[B]	LEU	2.4
1	2-G	272[B]	ARG	2.4
1	3-C	26[C]	LEU	2.4
1	3-D	66[C]	LEU	2.4
1	3-G	272[C]	ARG	2.4
1	4-C	26[D]	LEU	2.4
1	4-D	66[D]	LEU	2.4
1	4-G	272[D]	ARG	2.4
1	1-B	71[A]	VAL	2.4
1	2-B	71[B]	VAL	2.4
1	3-B	71[C]	VAL	2.4
1	4-B	71[D]	VAL	2.4
1	1-C	64[A]	PRO	2.4
1	2-C	64[B]	PRO	2.4
1	3-C	64[C]	PRO	2.4
1	4-C	64[D]	PRO	2.4
1	1-J	218[A]	CYS	2.4
1	2-J	218[B]	CYS	2.4
1	3-J	218[C]	CYS	2.4
1	4-J	218[D]	CYS	2.4
1	1-B	265[A]	PRO	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-F	21[A]	TYR	2.4
1	1-F	84[A]	VAL	2.4
1	2-B	265[B]	PRO	2.4
1	2-F	21[B]	TYR	2.4
1	2-F	84[B]	VAL	2.4
1	3-B	265[C]	PRO	2.4
1	3-F	21[C]	TYR	2.4
1	3-F	84[C]	VAL	2.4
1	4-B	265[D]	PRO	2.4
1	4-F	21[D]	TYR	2.4
1	4-F	84[D]	VAL	2.4
1	1-I	124[A]	GLY	2.4
1	2-I	124[B]	GLY	2.4
1	3-I	124[C]	GLY	2.4
1	4-I	124[D]	GLY	2.4
1	1-B	276[A]	ASP	2.4
1	1-F	31[A]	ILE	2.4
1	1-F	144[A]	ASP	2.4
1	2-B	276[B]	ASP	2.4
1	2-F	31[B]	ILE	2.4
1	2-F	144[B]	ASP	2.4
1	3-B	276[C]	ASP	2.4
1	3-F	31[C]	ILE	2.4
1	3-F	144[C]	ASP	2.4
1	4-B	276[D]	ASP	2.4
1	4-F	31[D]	ILE	2.4
1	4-F	144[D]	ASP	2.4
1	1-F	54[A]	PHE	2.4
1	1-F	191[A]	CYS	2.4
1	2-F	54[B]	PHE	2.4
1	2-F	191[B]	CYS	2.4
1	3-F	54[C]	PHE	2.4
1	3-F	191[C]	CYS	2.4
1	4-F	54[D]	PHE	2.4
1	4-F	191[D]	CYS	2.4
1	1-A	44[A]	GLY	2.4
1	1-D	195[A]	VAL	2.4
1	1-E	117[A]	HIS	2.4
1	2-D	195[B]	VAL	2.4
1	2-E	117[B]	HIS	2.4
1	3-D	195[C]	VAL	2.4
1	3-E	117[C]	HIS	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-D	195[D]	VAL	2.4
1	4-E	117[D]	HIS	2.4
1	1-G	309[A]	GLY	2.4
1	1-H	143[A]	GLY	2.4
1	1-L	105[A]	GLY	2.4
1	2-A	44[B]	GLY	2.4
1	2-G	309[B]	GLY	2.4
1	2-H	143[B]	GLY	2.4
1	2-L	105[B]	GLY	2.4
1	3-A	44[C]	GLY	2.4
1	3-G	309[C]	GLY	2.4
1	3-H	143[C]	GLY	2.4
1	3-L	105[C]	GLY	2.4
1	4-A	44[D]	GLY	2.4
1	4-G	309[D]	GLY	2.4
1	4-H	143[D]	GLY	2.4
1	4-L	105[D]	GLY	2.4
1	1-F	64[A]	PRO	2.4
1	1-G	38[A]	PRO	2.4
1	2-F	64[B]	PRO	2.4
1	2-G	38[B]	PRO	2.4
1	3-F	64[C]	PRO	2.4
1	3-G	38[C]	PRO	2.4
1	4-F	64[D]	PRO	2.4
1	4-G	38[D]	PRO	2.4
1	1-A	32[A]	ASN	2.4
1	1-E	103[A]	GLY	2.4
1	1-H	124[A]	GLY	2.4
1	2-A	32[B]	ASN	2.4
1	2-E	103[B]	GLY	2.4
1	2-H	124[B]	GLY	2.4
1	3-A	32[C]	ASN	2.4
1	3-E	103[C]	GLY	2.4
1	3-H	124[C]	GLY	2.4
1	4-A	32[D]	ASN	2.4
1	4-E	103[D]	GLY	2.4
1	4-H	124[D]	GLY	2.4
1	1-N	45[A]	THR	2.4
1	2-N	45[B]	THR	2.4
1	3-N	45[C]	THR	2.4
1	4-N	45[D]	THR	2.4
1	1-C	131[A]	TRP	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-C	131[B]	TRP	2.4
1	3-C	131[C]	TRP	2.4
1	4-C	131[D]	TRP	2.4
1	1-B	260[A]	ARG	2.4
1	1-M	51[A]	PRO	2.4
1	2-B	260[B]	ARG	2.4
1	2-M	51[B]	PRO	2.4
1	3-B	260[C]	ARG	2.4
1	3-M	51[C]	PRO	2.4
1	4-B	260[D]	ARG	2.4
1	4-M	51[D]	PRO	2.4
1	1-B	281[A]	LYS	2.4
1	1-D	161[A]	LYS	2.4
1	2-B	281[B]	LYS	2.4
1	2-D	161[B]	LYS	2.4
1	3-B	281[C]	LYS	2.4
1	3-D	161[C]	LYS	2.4
1	4-B	281[D]	LYS	2.4
1	4-D	161[D]	LYS	2.4
1	1-J	19[A]	GLU	2.4
1	2-J	19[B]	GLU	2.4
1	3-J	19[C]	GLU	2.4
1	4-J	19[D]	GLU	2.4
1	1-G	258[A]	VAL	2.4
1	2-G	258[B]	VAL	2.4
1	3-G	258[C]	VAL	2.4
1	4-G	258[D]	VAL	2.4
1	1-O	268[A]	THR	2.4
1	2-O	268[B]	THR	2.4
1	3-O	268[C]	THR	2.4
1	4-O	268[D]	THR	2.4
1	1-E	70[A]	ARG	2.4
1	2-E	70[B]	ARG	2.4
1	3-E	70[C]	ARG	2.4
1	4-E	70[D]	ARG	2.4
1	1-D	308[A]	TRP	2.4
1	2-D	308[B]	TRP	2.4
1	3-D	308[C]	TRP	2.4
1	4-D	308[D]	TRP	2.4
1	1-B	112[A]	LYS	2.4
1	1-C	300[A]	PHE	2.4
1	1-K	122[A]	ASP	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-B	112[B]	LYS	2.4
1	2-C	300[B]	PHE	2.4
1	2-K	122[B]	ASP	2.4
1	3-B	112[C]	LYS	2.4
1	3-C	300[C]	PHE	2.4
1	3-K	122[C]	ASP	2.4
1	4-B	112[D]	LYS	2.4
1	4-C	300[D]	PHE	2.4
1	4-K	122[D]	ASP	2.4
1	1-L	120[A]	GLU	2.4
1	2-L	120[B]	GLU	2.4
1	3-L	120[C]	GLU	2.4
1	4-L	120[D]	GLU	2.4
1	1-P	171[A]	LEU	2.3
1	2-P	171[B]	LEU	2.3
1	3-P	171[C]	LEU	2.3
1	4-P	171[D]	LEU	2.3
1	1-A	119[A]	ARG	2.3
1	1-A	242[A]	THR	2.3
1	1-F	28[A]	ARG	2.3
1	1-P	29[A]	ARG	2.3
1	2-A	119[B]	ARG	2.3
1	2-A	242[B]	THR	2.3
1	2-F	28[B]	ARG	2.3
1	2-P	29[B]	ARG	2.3
1	3-A	119[C]	ARG	2.3
1	1-H	33[A]	VAL	2.3
1	2-H	33[B]	VAL	2.3
1	3-A	242[C]	THR	2.3
1	3-F	28[C]	ARG	2.3
1	3-P	29[C]	ARG	2.3
1	4-A	119[D]	ARG	2.3
1	3-H	33[C]	VAL	2.3
1	4-A	242[D]	THR	2.3
1	4-F	28[D]	ARG	2.3
1	4-P	29[D]	ARG	2.3
1	4-H	33[D]	VAL	2.3
1	1-D	206[A]	LYS	2.3
1	2-D	206[B]	LYS	2.3
1	3-D	206[C]	LYS	2.3
1	4-D	206[D]	LYS	2.3
1	1-D	25[A]	ASP	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-I	219[A]	ASP	2.3
1	2-D	25[B]	ASP	2.3
1	2-I	219[B]	ASP	2.3
1	3-D	25[C]	ASP	2.3
1	3-I	219[C]	ASP	2.3
1	4-D	25[D]	ASP	2.3
1	4-I	219[D]	ASP	2.3
1	1-C	290[A]	GLY	2.3
1	2-C	290[B]	GLY	2.3
1	3-C	290[C]	GLY	2.3
1	4-C	290[D]	GLY	2.3
1	1-D	154[A]	GLN	2.3
1	1-O	192[A]	GLN	2.3
1	2-D	154[B]	GLN	2.3
1	2-O	192[B]	GLN	2.3
1	3-D	154[C]	GLN	2.3
1	3-O	192[C]	GLN	2.3
1	4-D	154[D]	GLN	2.3
1	4-O	192[D]	GLN	2.3
1	1-B	170[A]	ILE	2.3
1	1-C	238[A]	ILE	2.3
1	1-E	250[A]	ILE	2.3
1	2-B	170[B]	ILE	2.3
1	2-C	238[B]	ILE	2.3
1	2-E	250[B]	ILE	2.3
1	3-B	170[C]	ILE	2.3
1	3-C	238[C]	ILE	2.3
1	3-E	250[C]	ILE	2.3
1	4-B	170[D]	ILE	2.3
1	4-C	238[D]	ILE	2.3
1	4-E	250[D]	ILE	2.3
1	1-L	306[A]	LYS	2.3
1	2-L	306[B]	LYS	2.3
1	3-L	306[C]	LYS	2.3
1	4-L	306[D]	LYS	2.3
1	1-F	16[A]	PRO	2.3
1	1-H	225[A]	PRO	2.3
1	2-F	16[B]	PRO	2.3
1	2-H	225[B]	PRO	2.3
1	3-F	16[C]	PRO	2.3
1	3-H	225[C]	PRO	2.3
1	4-F	16[D]	PRO	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-H	225[D]	PRO	2.3
1	1-E	61[A]	ASN	2.3
1	2-E	61[B]	ASN	2.3
1	3-E	61[C]	ASN	2.3
1	4-E	61[D]	ASN	2.3
1	1-A	99[A]	GLY	2.3
1	2-A	99[B]	GLY	2.3
1	3-A	99[C]	GLY	2.3
1	4-A	99[D]	GLY	2.3
1	1-A	232[A]	ALA	2.3
1	1-H	232[A]	ALA	2.3
1	2-A	232[B]	ALA	2.3
1	2-H	232[B]	ALA	2.3
1	3-A	232[C]	ALA	2.3
1	3-H	232[C]	ALA	2.3
1	4-A	232[D]	ALA	2.3
1	4-H	232[D]	ALA	2.3
1	1-B	157[A]	ILE	2.3
1	1-D	292[A]	ILE	2.3
1	2-B	157[B]	ILE	2.3
1	2-D	292[B]	ILE	2.3
1	3-B	157[C]	ILE	2.3
1	3-D	292[C]	ILE	2.3
1	4-B	157[D]	ILE	2.3
1	4-D	292[D]	ILE	2.3
1	1-D	60[A]	ASP	2.3
1	2-D	60[B]	ASP	2.3
1	3-D	60[C]	ASP	2.3
1	4-D	60[D]	ASP	2.3
1	1-B	61[A]	ASN	2.3
1	2-B	61[B]	ASN	2.3
1	3-B	61[C]	ASN	2.3
1	4-B	61[D]	ASN	2.3
1	1-H	258[A]	VAL	2.3
1	2-H	258[B]	VAL	2.3
1	3-H	258[C]	VAL	2.3
1	4-H	258[D]	VAL	2.3
1	1-F	248[A]	GLU	2.3
1	2-F	248[B]	GLU	2.3
1	3-F	248[C]	GLU	2.3
1	4-F	248[D]	GLU	2.3
1	1-B	129[A]	PHE	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-B	129[B]	PHE	2.3
1	3-B	129[C]	PHE	2.3
1	4-B	129[D]	PHE	2.3
1	1-C	312[A]	ASP	2.3
1	2-C	312[B]	ASP	2.3
1	3-C	312[C]	ASP	2.3
1	4-C	312[D]	ASP	2.3
1	1-A	30[A]	ILE	2.3
1	1-C	289[A]	ILE	2.3
1	1-N	77[A]	ILE	2.3
1	2-A	30[B]	ILE	2.3
1	2-C	289[B]	ILE	2.3
1	2-N	77[B]	ILE	2.3
1	3-A	30[C]	ILE	2.3
1	3-C	289[C]	ILE	2.3
1	3-N	77[C]	ILE	2.3
1	4-A	30[D]	ILE	2.3
1	4-C	289[D]	ILE	2.3
1	4-N	77[D]	ILE	2.3
1	1-G	186[A]	PRO	2.3
1	2-G	186[B]	PRO	2.3
1	3-G	186[C]	PRO	2.3
1	4-G	186[D]	PRO	2.3
1	1-E	260[A]	ARG	2.3
1	1-H	284[A]	ARG	2.3
1	2-E	260[B]	ARG	2.3
1	2-H	284[B]	ARG	2.3
1	3-E	260[C]	ARG	2.3
1	3-H	284[C]	ARG	2.3
1	4-E	260[D]	ARG	2.3
1	4-H	284[D]	ARG	2.3
1	1-E	173[A]	ALA	2.3
1	1-O	256[A]	ALA	2.3
1	2-E	173[B]	ALA	2.3
1	2-O	256[B]	ALA	2.3
1	3-E	173[C]	ALA	2.3
1	3-O	256[C]	ALA	2.3
1	4-E	173[D]	ALA	2.3
1	4-O	256[D]	ALA	2.3
1	1-G	85[A]	SER	2.3
1	1-G	217[A]	SER	2.3
1	2-G	85[B]	SER	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-G	217[B]	SER	2.3
1	3-G	85[C]	SER	2.3
1	3-G	217[C]	SER	2.3
1	4-G	85[D]	SER	2.3
1	4-G	217[D]	SER	2.3
1	1-A	190[A]	PHE	2.3
1	2-A	190[B]	PHE	2.3
1	3-A	190[C]	PHE	2.3
1	4-A	190[D]	PHE	2.3
1	1-C	246[A]	PRO	2.3
1	2-C	246[B]	PRO	2.3
1	3-C	246[C]	PRO	2.3
1	4-C	246[D]	PRO	2.3
1	1-E	37[A]	ARG	2.3
1	1-G	101[A]	TRP	2.3
1	1-H	157[A]	ILE	2.3
1	1-H	208[A]	LYS	2.3
1	2-E	37[B]	ARG	2.3
1	2-G	101[B]	TRP	2.3
1	2-H	157[B]	ILE	2.3
1	2-H	208[B]	LYS	2.3
1	3-E	37[C]	ARG	2.3
1	3-G	101[C]	TRP	2.3
1	3-H	157[C]	ILE	2.3
1	3-H	208[C]	LYS	2.3
1	4-E	37[D]	ARG	2.3
1	4-G	101[D]	TRP	2.3
1	4-H	157[D]	ILE	2.3
1	4-H	208[D]	LYS	2.3
1	1-F	189[A]	MET	2.3
1	1-N	294[A]	GLY	2.3
1	2-F	189[B]	MET	2.3
1	2-N	294[B]	GLY	2.3
1	3-F	189[C]	MET	2.3
1	3-N	294[C]	GLY	2.3
1	4-F	189[D]	MET	2.3
1	4-N	294[D]	GLY	2.3
1	1-A	98[A]	VAL	2.3
1	1-F	301[A]	VAL	2.3
1	2-A	98[B]	VAL	2.3
1	2-F	301[B]	VAL	2.3
1	3-A	98[C]	VAL	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-F	301[C]	VAL	2.3
1	4-A	98[D]	VAL	2.3
1	4-F	301[D]	VAL	2.3
1	1-A	83[A]	PHE	2.3
1	2-A	83[B]	PHE	2.3
1	3-A	83[C]	PHE	2.3
1	4-A	83[D]	PHE	2.3
1	1-E	254[A]	GLY	2.3
1	1-F	223[A]	GLY	2.3
1	2-E	254[B]	GLY	2.3
1	2-F	223[B]	GLY	2.3
1	3-E	254[C]	GLY	2.3
1	3-F	223[C]	GLY	2.3
1	4-E	254[D]	GLY	2.3
1	4-F	223[D]	GLY	2.3
1	1-B	282[A]	TRP	2.3
1	1-J	171[A]	LEU	2.3
1	2-B	282[B]	TRP	2.3
1	2-J	171[B]	LEU	2.3
1	3-B	282[C]	TRP	2.3
1	3-J	171[C]	LEU	2.3
1	4-B	282[D]	TRP	2.3
1	4-J	171[D]	LEU	2.3
1	1-N	122[A]	ASP	2.3
1	2-N	122[B]	ASP	2.3
1	3-N	122[C]	ASP	2.3
1	4-N	122[D]	ASP	2.3
1	1-D	288[A]	GLU	2.2
1	1-E	120[A]	GLU	2.2
1	1-F	245[A]	GLU	2.2
1	1-F	297[A]	VAL	2.2
1	1-G	273[A]	GLU	2.2
1	1-H	55[A]	ARG	2.2
1	2-D	288[B]	GLU	2.2
1	2-E	120[B]	GLU	2.2
1	2-F	245[B]	GLU	2.2
1	2-F	297[B]	VAL	2.2
1	2-G	273[B]	GLU	2.2
1	2-H	55[B]	ARG	2.2
1	3-D	288[C]	GLU	2.2
1	3-E	120[C]	GLU	2.2
1	3-F	245[C]	GLU	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-F	297[C]	VAL	2.2
1	3-G	273[C]	GLU	2.2
1	3-H	55[C]	ARG	2.2
1	4-D	288[D]	GLU	2.2
1	4-E	120[D]	GLU	2.2
1	4-F	245[D]	GLU	2.2
1	4-F	297[D]	VAL	2.2
1	4-G	273[D]	GLU	2.2
1	4-H	55[D]	ARG	2.2
1	1-E	145[A]	TYR	2.2
1	1-G	214[A]	TYR	2.2
1	2-E	145[B]	TYR	2.2
1	2-G	214[B]	TYR	2.2
1	3-E	145[C]	TYR	2.2
1	3-G	214[C]	TYR	2.2
1	4-E	145[D]	TYR	2.2
1	4-G	214[D]	TYR	2.2
1	1-C	309[A]	GLY	2.2
1	1-D	300[A]	PHE	2.2
1	2-C	309[B]	GLY	2.2
1	2-D	300[B]	PHE	2.2
1	3-C	309[C]	GLY	2.2
1	3-D	300[C]	PHE	2.2
1	4-C	309[D]	GLY	2.2
1	4-D	300[D]	PHE	2.2
1	1-G	68[A]	THR	2.2
1	1-M	253[A]	MET	2.2
1	2-G	68[B]	THR	2.2
1	2-M	253[B]	MET	2.2
1	3-G	68[C]	THR	2.2
1	3-M	253[C]	MET	2.2
1	4-G	68[D]	THR	2.2
1	4-M	253[D]	MET	2.2
1	1-O	39[A]	ASP	2.2
1	2-O	39[B]	ASP	2.2
1	3-O	39[C]	ASP	2.2
1	4-O	39[D]	ASP	2.2
1	1-A	314[A]	LYS	2.2
1	1-E	65[A]	LEU	2.2
1	1-F	240[A]	LEU	2.2
1	1-F	289[A]	ILE	2.2
1	1-H	30[A]	ILE	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-A	314[B]	LYS	2.2
1	2-E	65[B]	LEU	2.2
1	2-F	240[B]	LEU	2.2
1	2-F	289[B]	ILE	2.2
1	2-H	30[B]	ILE	2.2
1	3-A	314[C]	LYS	2.2
1	3-E	65[C]	LEU	2.2
1	3-F	240[C]	LEU	2.2
1	3-F	289[C]	ILE	2.2
1	3-H	30[C]	ILE	2.2
1	4-E	65[D]	LEU	2.2
1	4-F	240[D]	LEU	2.2
1	4-F	289[D]	ILE	2.2
1	4-H	30[D]	ILE	2.2
1	4-A	314[D]	LYS	2.2
1	1-E	272[A]	ARG	2.2
1	1-H	70[A]	ARG	2.2
1	2-E	272[B]	ARG	2.2
1	2-H	70[B]	ARG	2.2
1	3-E	272[C]	ARG	2.2
1	3-H	70[C]	ARG	2.2
1	4-E	272[D]	ARG	2.2
1	4-H	70[D]	ARG	2.2
1	1-D	302[A]	VAL	2.2
1	1-H	317[A]	ALA	2.2
1	2-D	302[B]	VAL	2.2
1	2-H	317[B]	ALA	2.2
1	3-D	302[C]	VAL	2.2
1	3-H	317[C]	ALA	2.2
1	4-D	302[D]	VAL	2.2
1	4-H	317[D]	ALA	2.2
1	1-E	194[A]	PHE	2.2
1	2-E	194[B]	PHE	2.2
1	3-E	194[C]	PHE	2.2
1	4-E	194[D]	PHE	2.2
1	1-C	270[A]	LEU	2.2
1	1-D	250[A]	ILE	2.2
1	2-C	270[B]	LEU	2.2
1	2-D	250[B]	ILE	2.2
1	3-C	270[C]	LEU	2.2
1	3-D	250[C]	ILE	2.2
1	4-C	270[D]	LEU	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-D	250[D]	ILE	2.2
1	1-H	285[A]	SER	2.2
1	2-H	285[B]	SER	2.2
1	3-H	285[C]	SER	2.2
1	4-H	285[D]	SER	2.2
1	1-D	163[A]	ASN	2.2
1	2-D	163[B]	ASN	2.2
1	3-D	163[C]	ASN	2.2
1	4-D	163[D]	ASN	2.2
1	1-B	188[A]	HIS	2.2
1	2-B	188[B]	HIS	2.2
1	3-B	188[C]	HIS	2.2
1	4-B	188[D]	HIS	2.2
1	1-A	35[A]	GLU	2.2
1	2-A	35[B]	GLU	2.2
1	3-A	35[C]	GLU	2.2
1	4-A	35[D]	GLU	2.2
1	1-B	235[A]	THR	2.2
1	2-B	235[B]	THR	2.2
1	3-B	235[C]	THR	2.2
1	4-B	235[D]	THR	2.2
1	1-A	186[A]	PRO	2.2
1	2-A	186[B]	PRO	2.2
1	3-A	186[C]	PRO	2.2
1	4-A	186[D]	PRO	2.2
1	1-G	25[A]	ASP	2.2
1	1-G	122[A]	ASP	2.2
1	2-G	25[B]	ASP	2.2
1	2-G	122[B]	ASP	2.2
1	3-G	25[C]	ASP	2.2
1	3-G	122[C]	ASP	2.2
1	4-G	25[D]	ASP	2.2
1	4-G	122[D]	ASP	2.2
1	1-C	50[A]	ALA	2.2
1	1-E	256[A]	ALA	2.2
1	1-E	216[A]	ARG	2.2
1	1-M	96[A]	GLN	2.2
1	2-C	50[B]	ALA	2.2
1	2-E	256[B]	ALA	2.2
1	2-E	216[B]	ARG	2.2
1	2-M	96[B]	GLN	2.2
1	3-C	50[C]	ALA	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-E	256[C]	ALA	2.2
1	3-E	216[C]	ARG	2.2
1	3-M	96[C]	GLN	2.2
1	4-C	50[D]	ALA	2.2
1	4-E	256[D]	ALA	2.2
1	4-E	216[D]	ARG	2.2
1	4-M	96[D]	GLN	2.2
1	1-D	71[A]	VAL	2.2
1	1-F	126[A]	VAL	2.2
1	2-D	71[B]	VAL	2.2
1	2-F	126[B]	VAL	2.2
1	3-D	71[C]	VAL	2.2
1	3-F	126[C]	VAL	2.2
1	4-D	71[D]	VAL	2.2
1	4-F	126[D]	VAL	2.2
1	1-E	228[A]	ILE	2.2
1	2-E	228[B]	ILE	2.2
1	3-E	228[C]	ILE	2.2
1	4-E	228[D]	ILE	2.2
1	1-A	174[A]	TRP	2.2
1	2-A	174[B]	TRP	2.2
1	3-A	174[C]	TRP	2.2
1	4-A	174[D]	TRP	2.2
1	1-B	53[A]	SER	2.2
1	1-E	94[A]	SER	2.2
1	1-F	210[A]	SER	2.2
1	1-F	259[A]	TYR	2.2
1	2-B	53[B]	SER	2.2
1	2-E	94[B]	SER	2.2
1	2-F	210[B]	SER	2.2
1	2-F	259[B]	TYR	2.2
1	3-B	53[C]	SER	2.2
1	3-E	94[C]	SER	2.2
1	3-F	210[C]	SER	2.2
1	3-F	259[C]	TYR	2.2
1	4-B	53[D]	SER	2.2
1	4-E	94[D]	SER	2.2
1	4-F	210[D]	SER	2.2
1	4-F	259[D]	TYR	2.2
1	1-F	55[A]	ARG	2.2
1	1-G	254[A]	GLY	2.2
1	2-F	55[B]	ARG	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-G	254[B]	GLY	2.2
1	3-F	55[C]	ARG	2.2
1	3-G	254[C]	GLY	2.2
1	4-F	55[D]	ARG	2.2
1	4-G	254[D]	GLY	2.2
1	1-A	115[A]	LEU	2.2
1	2-A	115[B]	LEU	2.2
1	3-A	115[C]	LEU	2.2
1	4-A	115[D]	LEU	2.2
1	1-F	157[A]	ILE	2.2
1	2-F	157[B]	ILE	2.2
1	3-F	157[C]	ILE	2.2
1	4-F	157[D]	ILE	2.2
1	1-D	67[A]	THR	2.2
1	1-F	258[A]	VAL	2.2
1	1-K	43[A]	THR	2.2
1	2-D	67[B]	THR	2.2
1	2-F	258[B]	VAL	2.2
1	2-K	43[B]	THR	2.2
1	3-D	67[C]	THR	2.2
1	3-F	258[C]	VAL	2.2
1	3-K	43[C]	THR	2.2
1	4-D	67[D]	THR	2.2
1	4-F	258[D]	VAL	2.2
1	4-K	43[D]	THR	2.2
1	1-B	278[A]	PRO	2.2
1	1-F	196[A]	SER	2.2
1	2-B	278[B]	PRO	2.2
1	2-F	196[B]	SER	2.2
1	3-B	278[C]	PRO	2.2
1	3-F	196[C]	SER	2.2
1	4-B	278[D]	PRO	2.2
1	4-F	196[D]	SER	2.2
1	1-A	245[A]	GLU	2.1
1	1-G	63[A]	LEU	2.1
1	2-A	245[B]	GLU	2.1
1	2-G	63[B]	LEU	2.1
1	3-A	245[C]	GLU	2.1
1	3-G	63[C]	LEU	2.1
1	4-A	245[D]	GLU	2.1
1	4-G	63[D]	LEU	2.1
1	1-B	250[A]	ILE	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-F	238[A]	ILE	2.1
1	2-B	250[B]	ILE	2.1
1	2-F	238[B]	ILE	2.1
1	3-B	250[C]	ILE	2.1
1	3-F	238[C]	ILE	2.1
1	4-B	250[D]	ILE	2.1
1	4-F	238[D]	ILE	2.1
1	1-I	102[A]	ASP	2.1
1	2-I	102[B]	ASP	2.1
1	3-I	102[C]	ASP	2.1
1	4-I	102[D]	ASP	2.1
1	1-E	297[A]	VAL	2.1
1	2-E	297[B]	VAL	2.1
1	3-E	297[C]	VAL	2.1
1	4-E	297[D]	VAL	2.1
1	1-F	75[A]	GLY	2.1
1	2-F	75[B]	GLY	2.1
1	3-F	75[C]	GLY	2.1
1	4-F	75[D]	GLY	2.1
1	1-A	231[A]	TYR	2.1
1	1-G	194[A]	PHE	2.1
1	2-A	231[B]	TYR	2.1
1	2-G	194[B]	PHE	2.1
1	1-A	264[A]	GLU	2.1
1	2-A	264[B]	GLU	2.1
1	3-A	231[C]	TYR	2.1
1	3-G	194[C]	PHE	2.1
1	4-A	231[D]	TYR	2.1
1	4-G	194[D]	PHE	2.1
1	3-A	264[C]	GLU	2.1
1	4-A	264[D]	GLU	2.1
1	1-C	39[A]	ASP	2.1
1	1-H	80[A]	LEU	2.1
1	1-H	315[A]	MET	2.1
1	2-C	39[B]	ASP	2.1
1	2-H	80[B]	LEU	2.1
1	2-H	315[B]	MET	2.1
1	3-C	39[C]	ASP	2.1
1	3-H	80[C]	LEU	2.1
1	3-H	315[C]	MET	2.1
1	4-C	39[D]	ASP	2.1
1	4-H	80[D]	LEU	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-H	315[D]	MET	2.1
1	1-F	59[A]	ALA	2.1
1	1-L	269[A]	GLN	2.1
1	2-F	59[B]	ALA	2.1
1	2-L	269[B]	GLN	2.1
1	3-F	59[C]	ALA	2.1
1	3-L	269[C]	GLN	2.1
1	4-F	59[D]	ALA	2.1
1	4-L	269[D]	GLN	2.1
1	1-A	246[A]	PRO	2.1
1	1-H	164[A]	PRO	2.1
1	2-A	246[B]	PRO	2.1
1	2-H	164[B]	PRO	2.1
1	3-A	246[C]	PRO	2.1
1	3-H	164[C]	PRO	2.1
1	4-A	246[D]	PRO	2.1
1	4-H	164[D]	PRO	2.1
1	1-D	244[A]	THR	2.1
1	1-I	279[A]	LYS	2.1
1	2-D	244[B]	THR	2.1
1	2-I	279[B]	LYS	2.1
1	3-D	244[C]	THR	2.1
1	3-I	279[C]	LYS	2.1
1	4-D	244[D]	THR	2.1
1	4-I	279[D]	LYS	2.1
1	1-A	309[A]	GLY	2.1
1	2-A	309[B]	GLY	2.1
1	3-A	309[C]	GLY	2.1
1	4-A	309[D]	GLY	2.1
1	1-D	194[A]	PHE	2.1
1	1-H	190[A]	PHE	2.1
1	2-D	194[B]	PHE	2.1
1	2-H	190[B]	PHE	2.1
1	3-D	194[C]	PHE	2.1
1	3-H	190[C]	PHE	2.1
1	4-D	194[D]	PHE	2.1
1	4-H	190[D]	PHE	2.1
1	1-A	28[A]	ARG	2.1
1	2-A	28[B]	ARG	2.1
1	3-A	28[C]	ARG	2.1
1	4-A	28[D]	ARG	2.1
1	1-B	175[A]	ASN	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	1-G	213[A]	MET	2.1
1	2-B	175[B]	ASN	2.1
1	2-G	213[B]	MET	2.1
1	3-B	175[C]	ASN	2.1
1	3-G	213[C]	MET	2.1
1	4-B	175[D]	ASN	2.1
1	4-G	213[D]	MET	2.1
1	1-A	91[A]	LYS	2.1
1	2-A	91[B]	LYS	2.1
1	3-A	91[C]	LYS	2.1
1	4-A	91[D]	LYS	2.1
1	1-A	77[A]	ILE	2.1
1	2-A	77[B]	ILE	2.1
1	3-A	77[C]	ILE	2.1
1	4-A	77[D]	ILE	2.1
1	1-D	43[A]	THR	2.1
1	1-D	97[A]	GLY	2.1
1	2-D	43[B]	THR	2.1
1	2-D	97[B]	GLY	2.1
1	3-D	43[C]	THR	2.1
1	3-D	97[C]	GLY	2.1
1	4-D	43[D]	THR	2.1
1	4-D	97[D]	GLY	2.1
1	1-C	84[A]	VAL	2.1
1	2-C	84[B]	VAL	2.1
1	3-C	84[C]	VAL	2.1
1	4-C	84[D]	VAL	2.1
1	1-D	249[A]	PHE	2.1
1	1-G	295[A]	PHE	2.1
1	2-D	249[B]	PHE	2.1
1	2-G	295[B]	PHE	2.1
1	3-D	249[C]	PHE	2.1
1	3-G	295[C]	PHE	2.1
1	4-D	249[D]	PHE	2.1
1	4-G	295[D]	PHE	2.1
1	1-A	26[A]	LEU	2.1
1	1-C	181[A]	LEU	2.1
1	2-A	26[B]	LEU	2.1
1	2-C	181[B]	LEU	2.1
1	3-A	26[C]	LEU	2.1
1	3-C	181[C]	LEU	2.1
1	4-A	26[D]	LEU	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-C	181[D]	LEU	2.1
1	1-G	143[A]	GLY	2.1
1	2-G	143[B]	GLY	2.1
1	3-G	143[C]	GLY	2.1
1	4-G	143[D]	GLY	2.1
1	1-G	31[A]	ILE	2.1
1	1-P	62[A]	THR	2.1
1	2-G	31[B]	ILE	2.1
1	2-P	62[B]	THR	2.1
1	3-G	31[C]	ILE	2.1
1	3-P	62[C]	THR	2.1
1	4-G	31[D]	ILE	2.1
1	4-P	62[D]	THR	2.1
1	1-B	243[A]	ASP	2.1
1	1-J	168[A]	ARG	2.1
1	2-B	243[B]	ASP	2.1
1	2-J	168[B]	ARG	2.1
1	3-B	243[C]	ASP	2.1
1	3-J	168[C]	ARG	2.1
1	4-B	243[D]	ASP	2.1
1	4-J	168[D]	ARG	2.1
1	1-G	107[A]	LYS	2.1
1	2-G	107[B]	LYS	2.1
1	3-G	107[C]	LYS	2.1
1	4-G	107[D]	LYS	2.1
1	1-B	46[A]	VAL	2.1
1	1-E	15[A]	ASN	2.1
1	2-B	46[B]	VAL	2.1
1	2-E	15[B]	ASN	2.1
1	3-B	46[C]	VAL	2.1
1	3-E	15[C]	ASN	2.1
1	4-B	46[D]	VAL	2.1
1	4-E	15[D]	ASN	2.1
1	1-B	300[A]	PHE	2.1
1	1-G	72[A]	PHE	2.1
1	2-B	300[B]	PHE	2.1
1	2-G	72[B]	PHE	2.1
1	3-B	300[C]	PHE	2.1
1	3-G	72[C]	PHE	2.1
1	4-B	300[D]	PHE	2.1
1	4-G	72[D]	PHE	2.1
1	1-E	176[A]	PRO	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	2-E	176[B]	PRO	2.1
1	3-E	176[C]	PRO	2.1
1	4-E	176[D]	PRO	2.1
1	1-H	34[A]	GLY	2.1
1	1-H	75[A]	GLY	2.1
1	2-H	34[B]	GLY	2.1
1	2-H	75[B]	GLY	2.1
1	3-H	34[C]	GLY	2.1
1	3-H	75[C]	GLY	2.1
1	4-H	34[D]	GLY	2.1
1	4-H	75[D]	GLY	2.1
1	1-G	80[A]	LEU	2.1
1	2-G	80[B]	LEU	2.1
1	3-G	80[C]	LEU	2.1
1	4-G	80[D]	LEU	2.1
1	1-G	87[A]	CYS	2.1
1	1-K	112[A]	LYS	2.1
1	2-G	87[B]	CYS	2.1
1	2-K	112[B]	LYS	2.1
1	3-G	87[C]	CYS	2.1
1	3-K	112[C]	LYS	2.1
1	4-G	87[D]	CYS	2.1
1	4-K	112[D]	LYS	2.1
1	1-E	108[A]	GLU	2.1
1	1-I	19[A]	GLU	2.1
1	2-E	108[B]	GLU	2.1
1	2-I	19[B]	GLU	2.1
1	3-E	108[C]	GLU	2.1
1	3-I	19[C]	GLU	2.1
1	4-E	108[D]	GLU	2.1
1	4-I	19[D]	GLU	2.1
1	1-B	38[A]	PRO	2.1
1	1-E	265[A]	PRO	2.1
1	1-G	237[A]	MET	2.1
1	1-I	278[A]	PRO	2.1
1	2-B	38[B]	PRO	2.1
1	2-E	265[B]	PRO	2.1
1	2-G	237[B]	MET	2.1
1	2-I	278[B]	PRO	2.1
1	3-B	38[C]	PRO	2.1
1	3-E	265[C]	PRO	2.1
1	3-G	237[C]	MET	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-I	278[C]	PRO	2.1
1	4-B	38[D]	PRO	2.1
1	4-E	265[D]	PRO	2.1
1	4-G	237[D]	MET	2.1
1	4-I	278[D]	PRO	2.1
1	1-H	306[A]	LYS	2.1
1	2-H	306[B]	LYS	2.1
1	3-H	306[C]	LYS	2.1
1	4-H	306[D]	LYS	2.1
1	1-A	270[A]	LEU	2.0
1	1-D	152[A]	GLN	2.0
1	1-F	266[A]	LEU	2.0
1	2-A	270[B]	LEU	2.0
1	2-D	152[B]	GLN	2.0
1	2-F	266[B]	LEU	2.0
1	3-A	270[C]	LEU	2.0
1	3-D	152[C]	GLN	2.0
1	3-F	266[C]	LEU	2.0
1	4-A	270[D]	LEU	2.0
1	4-D	152[D]	GLN	2.0
1	4-F	266[D]	LEU	2.0
1	1-F	211[A]	CYS	2.0
1	2-F	211[B]	CYS	2.0
1	3-F	211[C]	CYS	2.0
1	4-F	211[D]	CYS	2.0
1	1-P	161[A]	LYS	2.0
1	2-P	161[B]	LYS	2.0
1	3-P	161[C]	LYS	2.0
1	4-P	161[D]	LYS	2.0
1	1-E	25[A]	ASP	2.0
1	1-H	194[A]	PHE	2.0
1	2-E	25[B]	ASP	2.0
1	2-H	194[B]	PHE	2.0
1	3-E	25[C]	ASP	2.0
1	3-H	194[C]	PHE	2.0
1	4-E	25[D]	ASP	2.0
1	4-H	194[D]	PHE	2.0
1	1-D	209[A]	LEU	2.0
1	1-E	67[A]	THR	2.0
1	2-D	209[B]	LEU	2.0
1	2-E	67[B]	THR	2.0
1	3-D	209[C]	LEU	2.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	3-E	67[C]	THR	2.0
1	4-D	209[D]	LEU	2.0
1	4-E	67[D]	THR	2.0
1	1-G	241[A]	ILE	2.0
1	1-H	198[A]	PRO	2.0
1	1-H	207[A]	PRO	2.0
1	1-H	238[A]	ILE	2.0
1	2-G	241[B]	ILE	2.0
1	2-H	198[B]	PRO	2.0
1	2-H	207[B]	PRO	2.0
1	2-H	238[B]	ILE	2.0
1	3-G	241[C]	ILE	2.0
1	3-H	198[C]	PRO	2.0
1	3-H	207[C]	PRO	2.0
1	3-H	238[C]	ILE	2.0
1	4-G	241[D]	ILE	2.0
1	4-H	198[D]	PRO	2.0
1	4-H	207[D]	PRO	2.0
1	4-H	238[D]	ILE	2.0
1	1-C	140[A]	ASP	2.0
1	1-F	312[A]	ASP	2.0
1	2-C	140[B]	ASP	2.0
1	2-F	312[B]	ASP	2.0
1	3-C	140[C]	ASP	2.0
1	3-F	312[C]	ASP	2.0
1	4-C	140[D]	ASP	2.0
1	4-F	312[D]	ASP	2.0
1	1-B	147[A]	GLY	2.0
1	2-B	147[B]	GLY	2.0
1	3-B	147[C]	GLY	2.0
1	4-B	147[D]	GLY	2.0
1	1-A	302[A]	VAL	2.0
1	1-C	71[A]	VAL	2.0
1	1-E	46[A]	VAL	2.0
1	2-A	302[B]	VAL	2.0
1	2-C	71[B]	VAL	2.0
1	2-E	46[B]	VAL	2.0
1	3-A	302[C]	VAL	2.0
1	3-C	71[C]	VAL	2.0
1	3-E	46[C]	VAL	2.0
1	4-A	302[D]	VAL	2.0
1	4-C	71[D]	VAL	2.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-E	46[D]	VAL	2.0
1	1-B	23[A]	TYR	2.0
1	1-F	239[A]	ALA	2.0
1	2-B	23[B]	TYR	2.0
1	2-F	239[B]	ALA	2.0
1	3-B	23[C]	TYR	2.0
1	3-F	239[C]	ALA	2.0
1	4-B	23[D]	TYR	2.0
1	4-F	239[D]	ALA	2.0
1	1-C	70[A]	ARG	2.0
1	1-D	188[A]	HIS	2.0
1	1-P	303[A]	GLU	2.0
1	2-C	70[B]	ARG	2.0
1	2-D	188[B]	HIS	2.0
1	2-P	303[B]	GLU	2.0
1	3-C	70[C]	ARG	2.0
1	3-D	188[C]	HIS	2.0
1	3-P	303[C]	GLU	2.0
1	4-C	70[D]	ARG	2.0
1	4-D	188[D]	HIS	2.0
1	4-P	303[D]	GLU	2.0
1	1-A	219[A]	ASP	2.0
1	1-H	17[A]	ASP	2.0
1	2-A	219[B]	ASP	2.0
1	2-H	17[B]	ASP	2.0
1	3-A	219[C]	ASP	2.0
1	3-H	17[C]	ASP	2.0
1	4-A	219[D]	ASP	2.0
1	4-H	17[D]	ASP	2.0
1	1-A	311[A]	ILE	2.0
1	1-B	34[A]	GLY	2.0
1	2-A	311[B]	ILE	2.0
1	1-H	196[A]	SER	2.0
1	1-M	285[A]	SER	2.0
1	2-B	34[B]	GLY	2.0
1	3-A	311[C]	ILE	2.0
1	3-B	34[C]	GLY	2.0
1	4-A	311[D]	ILE	2.0
1	2-H	196[B]	SER	2.0
1	2-M	285[B]	SER	2.0
1	3-H	196[C]	SER	2.0
1	3-M	285[C]	SER	2.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	4-B	34[D]	GLY	2.0
1	4-H	196[D]	SER	2.0
1	4-M	285[D]	SER	2.0

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

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

6.3 Carbohydrates (i)

There are no carbohydrates in this entry.

6.4 Ligands (i)

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

Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å^2)	Q<0.9
3	CB3	1-F	2601[A]	35/35	0.25	1.53	16,23,32,39	35
3	CB3	3-F	2601[C]	35/35	0.25	1.53	16,23,32,39	35
3	CB3	4-F	2601[D]	35/35	0.25	1.53	16,23,32,39	35
3	CB3	2-F	2601[B]	35/35	0.25	1.53	16,23,32,39	35
2	UMP	4-A	350[D]	20/20	0.24	1.07	18,23,27,29	20
2	UMP	3-A	350[C]	20/20	0.24	1.07	18,23,27,29	20
2	UMP	2-A	350[B]	20/20	0.24	1.07	18,23,27,29	20
2	UMP	1-A	350[A]	20/20	0.24	1.07	18,23,27,29	20
2	UMP	1-C	450[A]	20/20	0.25	0.89	17,21,27,27	20
2	UMP	3-C	450[C]	20/20	0.25	0.89	17,21,27,27	20
2	UMP	2-C	450[B]	20/20	0.25	0.89	17,21,27,27	20
2	UMP	4-C	450[D]	20/20	0.25	0.89	17,21,27,27	20
3	CB3	2-G	2651[B]	35/35	0.26	0.87	18,24,32,37	35
3	CB3	4-G	2651[D]	35/35	0.26	0.87	18,24,32,37	35
3	CB3	1-G	2651[A]	35/35	0.26	0.87	18,24,32,37	35
3	CB3	3-G	2651[C]	35/35	0.26	0.87	18,24,32,37	35
2	UMP	4-N	600[D]	20/20	0.64	0.76	48,60,72,72	20
2	UMP	3-N	600[C]	20/20	0.64	0.70	48,60,72,72	20

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å^2)	Q<0.9
2	UMP	2-J	400[B]	20/20	0.58	0.53	49,61,71,71	20
2	UMP	4-J	400[D]	20/20	0.58	0.48	49,61,70,70	20
2	UMP	1-J	400[A]	20/20	0.58	0.47	48,61,70,71	20
3	CB3	1-B	2401[A]	35/35	0.19	0.41	18,22,38,40	35
3	CB3	2-B	2401[B]	35/35	0.19	0.41	18,22,38,40	35
3	CB3	4-B	2401[D]	35/35	0.19	0.41	18,22,38,40	35
3	CB3	3-B	2401[C]	35/35	0.19	0.41	18,22,38,40	35
2	UMP	3-J	400[C]	20/20	0.58	0.40	49,60,70,70	20
2	UMP	1-I	350[A]	20/20	0.55	0.39	50,62,74,74	20
3	CB3	1-H	2701[A]	35/35	0.21	0.34	14,22,31,36	35
3	CB3	2-H	2701[B]	35/35	0.21	0.34	14,22,31,36	35
3	CB3	3-H	2701[C]	35/35	0.21	0.34	14,22,31,36	35
3	CB3	4-H	2701[D]	35/35	0.21	0.34	14,22,31,36	35
2	UMP	2-N	600[B]	20/20	0.64	0.33	49,61,72,72	20
2	UMP	1-N	600[A]	20/20	0.64	0.23	48,61,72,72	20
3	CB3	1-C	2451[A]	35/35	0.24	0.20	20,26,32,37	35
3	CB3	1-D	2501[A]	35/35	0.20	0.20	14,23,41,44	35
2	UMP	3-B	400[C]	20/20	0.16	0.20	13,17,22,22	20
3	CB3	3-C	2451[C]	35/35	0.24	0.20	20,26,32,37	35
3	CB3	4-D	2501[D]	35/35	0.20	0.20	14,23,41,44	35
3	CB3	2-C	2451[B]	35/35	0.24	0.20	20,26,32,37	35
3	CB3	3-D	2501[C]	35/35	0.20	0.20	14,23,41,44	35
2	UMP	4-B	400[D]	20/20	0.16	0.20	13,17,22,22	20
2	UMP	2-B	400[B]	20/20	0.16	0.20	13,17,22,22	20
3	CB3	4-C	2451[D]	35/35	0.24	0.20	20,26,32,37	35
2	UMP	1-B	400[A]	20/20	0.16	0.20	13,17,22,22	20
3	CB3	2-D	2501[B]	35/35	0.20	0.20	14,23,41,44	35
2	UMP	2-I	350[B]	20/20	0.55	0.19	50,62,74,74	20
3	CB3	2-E	2551[B]	35/35	0.23	0.18	15,23,37,37	35
3	CB3	4-E	2551[D]	35/35	0.23	0.18	15,23,37,37	35
3	CB3	1-E	2551[A]	35/35	0.23	0.18	15,23,37,37	35
3	CB3	3-E	2551[C]	35/35	0.23	0.18	15,23,37,37	35
2	UMP	4-K	450[D]	20/20	0.51	0.17	50,62,73,73	20
2	UMP	4-I	350[D]	20/20	0.55	0.14	50,62,74,74	20
2	UMP	3-I	350[C]	20/20	0.55	0.13	50,62,74,74	20
2	UMP	1-P	700[A]	20/20	0.54	0.06	48,60,70,70	20
2	UMP	3-K	450[C]	20/20	0.51	0.04	49,62,73,73	20
2	UMP	2-G	650[B]	20/20	0.21	-0.05	18,21,23,26	20
2	UMP	4-G	650[D]	20/20	0.21	-0.05	18,21,23,26	20
2	UMP	1-G	650[A]	20/20	0.21	-0.05	18,21,23,26	20
2	UMP	3-G	650[C]	20/20	0.21	-0.05	18,21,23,26	20
2	UMP	2-P	700[B]	20/20	0.54	-0.06	48,60,70,70	20

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å^2)	Q<0.9
2	UMP	1-K	450[A]	20/20	0.51	-0.09	49,62,73,73	20
2	UMP	2-K	450[B]	20/20	0.51	-0.19	49,62,73,73	20
2	UMP	4-P	700[D]	20/20	0.54	-0.23	49,60,70,70	20
2	UMP	2-D	500[B]	20/20	0.15	-0.24	14,19,22,25	20
2	UMP	4-D	500[D]	20/20	0.15	-0.24	14,19,22,25	20
2	UMP	1-D	500[A]	20/20	0.15	-0.24	14,19,22,25	20
2	UMP	3-D	500[C]	20/20	0.15	-0.24	14,19,22,25	20
2	UMP	3-P	700[C]	20/20	0.54	-0.31	49,60,70,70	20
3	CB3	3-A	2351[C]	35/35	0.21	-0.35	16,24,31,35	35
3	CB3	4-A	2351[D]	35/35	0.21	-0.35	16,24,31,35	35
3	CB3	2-A	2351[B]	35/35	0.21	-0.35	16,24,31,35	35
3	CB3	1-A	2351[A]	35/35	0.21	-0.35	16,24,31,35	35
2	UMP	3-L	500[C]	20/20	0.47	-0.42	49,61,71,71	20
2	UMP	2-L	500[B]	20/20	0.47	-0.46	49,61,71,71	20
2	UMP	4-L	500[D]	20/20	0.47	-0.58	49,61,71,71	20
2	UMP	1-O	650[A]	20/20	0.40	-0.60	17,18,19,19	20
2	UMP	1-E	550[A]	20/20	0.18	-0.62	20,22,24,24	20
2	UMP	2-E	550[B]	20/20	0.18	-0.62	20,22,24,24	20
2	UMP	4-E	550[D]	20/20	0.18	-0.62	20,22,24,24	20
2	UMP	3-E	550[C]	20/20	0.18	-0.62	20,22,24,24	20
2	UMP	3-F	600[C]	20/20	0.16	-0.67	15,18,22,22	20
2	UMP	1-F	600[A]	20/20	0.16	-0.67	15,18,22,22	20
2	UMP	2-F	600[B]	20/20	0.16	-0.67	15,18,22,22	20
2	UMP	4-F	600[D]	20/20	0.16	-0.67	15,18,22,22	20
2	UMP	4-O	650[D]	20/20	0.40	-0.71	17,18,19,20	20
2	UMP	1-L	500[A]	20/20	0.47	-0.71	49,61,71,71	20
2	UMP	2-M	550[B]	20/20	0.41	-0.76	50,62,73,73	20
2	UMP	3-O	650[C]	20/20	0.40	-0.76	17,19,20,22	20
2	UMP	2-O	650[B]	20/20	0.40	-0.78	17,19,19,19	20
2	UMP	1-M	550[A]	20/20	0.41	-0.80	49,62,73,73	20
2	UMP	3-H	700[C]	20/20	0.15	-0.86	13,19,30,56	20
2	UMP	1-H	700[A]	20/20	0.15	-0.86	13,19,30,56	20
2	UMP	4-H	700[D]	20/20	0.15	-0.86	13,19,30,56	20
2	UMP	2-H	700[B]	20/20	0.15	-0.86	13,19,30,56	20
2	UMP	3-M	550[C]	20/20	0.41	-0.93	49,62,72,72	20
2	UMP	4-M	550[D]	20/20	0.41	-1.11	50,61,73,73	20

6.5 Other polymers (i)

There are no such residues in this entry.