Full wwPDB NMR Structure Validation Report (i)

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PDB ID	:	6SNJ
BMRB ID	:	34427
Title	:	Solution structure of the FUS/TLS RNA recognition motif in complex with U1 snRNA stem loop III
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This is a Full wwPDB NMR Structure Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/NMRValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references (1)) were used in the production of this report:

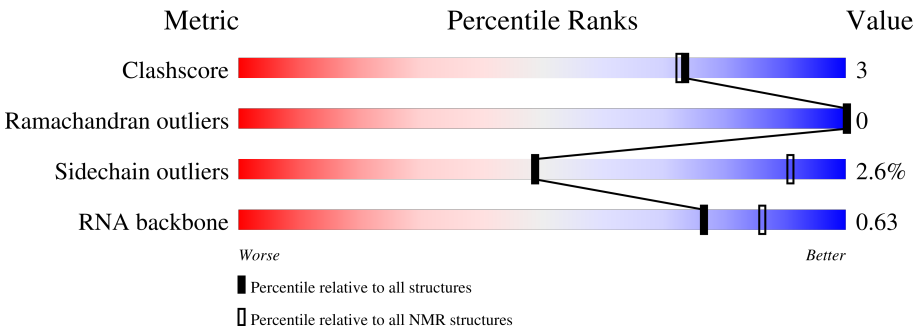
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.33

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
SOLUTION NMR

The overall completeness of chemical shifts assignment is 80%.

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)	NMR archive (#Entries)
Clashscore	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428
RNA backbone	4643	676

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and a grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5%

Mol	Chain	Length	Quality of chain
1	A	131	51% 6% • 42%
2	B	28	82% 7% 11%

2 Ensemble composition and analysis (i)

This entry contains 18 models. Model 7 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

The following residues are included in the computation of the global validation metrics.

Well-defined (core) protein residues			
Well-defined core	**Residue range (total)**	**Backbone RMSD (Å)**	**Medoid model**
1	A:267-A:268, A:279-A:279, A:285-A:313, A:319-A:326, A:334-A:369 (76)	0.12	7

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

The models can be grouped into 2 clusters. No single-model clusters were found.

Cluster number	Models
1	1, 2, 3, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18
2	4, 8

3 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 2840 atoms, of which 1252 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called RNA-binding protein FUS.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	131	1946	611	950	186	198	1	0

- Molecule 2 is a RNA chain called U1 snRNA stem loop III, RNA (28-MER).

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	P	
2	B	28	894	266	302	106	193	27	0

4 Residue-property plots (i)

4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-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. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

• Molecule 1: RNA-binding protein FUS

Chain A: 51% 6% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 V301 N314 K315 K316 T317 G318 I322 N323 L324 Y325 T326 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 T370 R371 R372 A373 D374 F375

N376 R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

• Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 82% 7% 11%

G91 A103 A104 U105 G106 U107 C118

4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

• Molecule 1: RNA-binding protein FUS

Chain A: 50% 7% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 T297 V301 N314 K315 K316 T317 G318 I322 N323 L324 Y325 T326 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 T370 R371 R372 A373

D374 F375 N376 R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

• Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 82% 7% 7% •

G91 A103 A104 U105 G106 U107 C118

4.2.2 Score per residue for model 2

• Molecule 1: RNA-binding protein FUS

Chain A: 51% 6% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 T297 V301 N314 K315 K316 T317 G318 I322 Y325 T326 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 T370 R371 R372 A373 D374

F375 N376 R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

• Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 86% • 11%

G91 A104 U105 G106 U107 C118

4.2.3 Score per residue for model 3

• Molecule 1: RNA-binding protein FUS

Chain A: 51% 6% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 T297 V301 N314 K315 K316 T317 G318 I322 Y325 T326 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 T370 R371 R372 A373 D374

F375 N376 R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

• Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 86% • 11%

G91 A104 U105 G106 U107 C118

4.2.4 Score per residue for model 4

• Molecule 1: RNA-binding protein FUS

Chain A: 52% 5% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 V301 N314 K315 K316 T317 G318 I322 Y325 T326 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 T370 R371 R372 A373 D374 F375 N376

R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

• Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 86% 7% 7%

G91 A104 U105 G106 U107 C118

4.2.5 Score per residue for model 5

• Molecule 1: RNA-binding protein FUS

Chain A: 52% 5% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 V301 N314 K315 K316 T317 G318 I322 Y325 T326 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 T370 R371 R372 A373 D374 F375 N376

R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

• Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 86% • 11%

G91 A104 U105 G106 U107 C118

4.2.6 Score per residue for model 6

• Molecule 1: RNA-binding protein FUS

Chain A: 50% 7% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 T297 V301 N314 K315 K316 T317 G318 I322 N323 L324 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 A369 T370 R371 R372 A373

D374 F375 N376 R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

• Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 79% 11% 7% •

G91 A104 U105 G106 U107 G108 G109 C118

4.2.7 Score per residue for model 7 (medoid)

• Molecule 1: RNA-binding protein FUS

Chain A: 51% 6% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 V301 N314 K315 K316 T317 G318 I322 N323 L324 Y325 T326 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 T370 R371 R372 A373 D374 F375

N376 R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

• Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 86% • 11%

G91 A104 U105 G106 U107 C118

4.2.8 Score per residue for model 8

• Molecule 1: RNA-binding protein FUS

Chain A: 50% 7% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 T297 V301 N314 K315 K316 T317 G318 I322 N323 L324 Y325 T326 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 T370 R371 R372 A373

D374 F375 N376 R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

• Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 86% • 11%

G91 A104 U105 G106 U107 C118

4.2.9 Score per residue for model 9

• Molecule 1: RNA-binding protein FUS

Chain A: 52% 5% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 V301 N314 K315 K316 T317 G318 I322 Y325 T326 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 T370 R371 R372 A373 D374 F375 N376

R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

• Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 79% 11% 11%

G91 A103 A104 U105 G106 U107 G108 C118

4.2.10 Score per residue for model 10

• Molecule 1: RNA-binding protein FUS

Chain A: 52% 5% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 V301 N314 K315 K316 T317 G318 I322 Y325 T326 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 T370 R371 R372 A373 D374 F375 N376

R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

• Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 79% 7% 14%

G91 A103 A104 U105 G106 U107 G108 C118

4.2.11 Score per residue for model 11

• Molecule 1: RNA-binding protein FUS

Chain A: 50% 7% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 T297 V301 N314 K315 K316 T317 G318 I322 N323 L324 Y325 T326 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 T370 R371 R372 A373

D374 F375 N376 R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

• Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 79% 7% 14%

G91 A103 A104 U105 G106 U107 G108 C118

4.2.12 Score per residue for model 12

- Molecule 1: RNA-binding protein FUS

Chain A: 51% 6% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 T297 V301 N314 K315 K316 T317 G318 I322 Y325 T326 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 T370 R371 R372 A373 D374

F375 N376 R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

- Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 82% 7% 11%

G91 A103 A104 U105 G106 U107 C118

4.2.13 Score per residue for model 13

- Molecule 1: RNA-binding protein FUS

Chain A: 51% 6% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 V301 N314 K315 K316 T317 G318 I322 N323 L324 Y325 T326 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 T370 R371 R372 A373 D374 F375

N376 R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

- Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 86% • 7% •

G91 A104 U105 G106 U107 C118

4.2.14 Score per residue for model 14

- Molecule 1: RNA-binding protein FUS

Chain A: 51% 6% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 V301 N314 K315 K316 T317 G318 I322 N323 L324 Y325 T326 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 T370 R371 R372 A373 D374 F375

N376 R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

• Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 82% 7% 11%

G91 A103 A104 U105 G106 U107 C118

4.2.15 Score per residue for model 15

• Molecule 1: RNA-binding protein FUS

Chain A: 50% 7% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 V301 T313 N314 K315 K316 T317 G318 I322 N323 L324 Y325 T326 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 T370 R371 R372 A373 D374

F375 N376 R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

• Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 79% 11% 11%

G91 A103 A104 U105 G106 U107 G108 C118

4.2.16 Score per residue for model 16

• Molecule 1: RNA-binding protein FUS

Chain A: 50% 7% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 V301 T313 N314 K315 K316 T317 G318 I322 N323 L324 Y325 T326 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 T370 R371 R372 A373 D374

F375 N376 R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

• Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 79% 7% 11% •

G91 A103 A104 U105 G106 U107 G108 C118

4.2.17 Score per residue for model 17

• Molecule 1: RNA-binding protein FUS

Chain A: 52% 5% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 V301 N314 K315 K316 T317 G318 I322 Y325 T326 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 T370 R371 R372 A373 D374 F375 N376

R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

• Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 86% • 11%

G91 A104 U105 G106 U107 C118

4.2.18 Score per residue for model 18

• Molecule 1: RNA-binding protein FUS

Chain A: 50% 6% • 42%

G260 G261 F262 N263 K264 F265 G266 R269 D270 Q271 G272 S273 R274 H275 D276 S277 E278 Q279 D280 N281 S282 D283 N284 T297 V301 N314 K315 K316 T317 G318 I322 N323 L324 Y325 T326 D327 R328 E329 T330 G331 K332 L333 K334 P344 P345 F359 I364 T370 R371 R372 A373

D374 F375 N376 R377 G378 G379 G380 N381 G382 R383 G384 G385 R386 G387 R388 G389 G390

• Molecule 2: U1 snRNA stem loop III, RNA (28-MER)

Chain B: 82% 7% 7% •

G91 A103 A104 U105 G106 U107 C118

5 Refinement protocol and experimental data overview (i)

The models were refined using the following method: *simulated annealing*.

Of the 50 calculated structures, 18 were deposited, based on the following criterion: *structures with the lowest energy*.

The following table shows the software used for structure solution, optimisation and refinement.

Software name	Classification	Version
Amber	refinement	12
CYANA	structure calculation	3.98

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1761
Number of shifts mapped to atoms	1761
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	80%

6 Model quality (i)

6.1 Standard geometry (i)

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 (average) root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.53±0.00	0±0/598 (0.0± 0.0%)	0.69±0.01	0±0/813 (0.0± 0.0%)
2	B	0.97±0.01	0±0/661 (0.0± 0.0%)	1.36±0.01	2±0/1028 (0.2± 0.0%)
All	All	0.79	0/22662 (0.0%)	1.11	34/33138 (0.1%)

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

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	0.7±0.4
2	B	0.0±0.0	0.2±0.4
All	All	0	17

There are no bond-length outliers.

All unique angle outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
2	B	104	A	O4'-C1'-N9	6.85	113.68	108.20	9	18
2	B	106	G	C3'-C2'-C1'	5.69	106.06	101.50	2	16

There are no chirality outliers.

All unique planar outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Group	Models (Total)
1	A	325	TYR	Sidechain	13
2	B	104	A	Sidechain	2
2	B	105	U	Sidechain	2

6.2 Too-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 each chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	583	570	570	6±1
2	B	592	302	304	2±1
All	All	21150	15696	15732	122

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 3.

All unique clashes are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:301:VAL:HG21	1:A:322:ILE:HG21	0.65	1.68	17	18
1:A:334:LYS:HE3	2:B:105:U:C4	0.61	2.30	18	18
1:A:325:TYR:CD1	2:B:105:U:H1'	0.52	2.39	5	3
1:A:359:PHE:HB2	1:A:364:ILE:HG21	0.48	1.85	3	18
1:A:344:PRO:N	1:A:345:PRO:CD	0.44	2.81	15	18
1:A:325:TYR:CD2	2:B:105:U:H1'	0.44	2.48	15	1
1:A:301:VAL:CG2	1:A:322:ILE:HG21	0.43	2.42	8	12
1:A:344:PRO:N	1:A:345:PRO:HD2	0.43	2.29	11	18
2:B:107:U:H3'	2:B:108:G:C5'	0.43	2.44	9	4
2:B:107:U:H3'	2:B:108:G:H5"	0.43	1.91	10	1
1:A:324:LEU:HD22	1:A:324:LEU:N	0.41	2.30	6	10
1:A:369:ALA:HA	2:B:106:G:H21	0.40	1.76	6	1

6.3 Torsion angles (i)

6.3.1 Protein backbone (i)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	76/131 (58%)	70±1 (92±1%)	6±1 (8±1%)	0±0 (0±0%)	100	100
All	All	1368/2358 (58%)	1263 (92%)	105 (8%)	0 (0%)	100	100

There are no Ramachandran outliers.

6.3.2 Protein sidechains (i)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	63/102 (62%)	61±1 (97±1%)	2±1 (3±1%)	49 91
All	All	1134/1836 (62%)	1105 (97%)	29 (3%)	49 91

All 4 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	322	ILE	18
1	A	297	THR	8
1	A	313	THR	2
1	A	334	LYS	1

6.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers	Suiteness
2	B	27/28 (96%)	5±1 (17±2%)	1±0 (4±1%)	0.63±0.02
All	All	486/504 (96%)	83 (17%)	21 (4%)	0.63

The overall RNA backbone suiteness is 0.63.

All unique RNA backbone outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
2	B	104	A	18
2	B	105	U	18
2	B	106	G	18
2	B	107	U	18
2	B	103	A	9
2	B	109	G	1
2	B	108	G	1

All unique RNA pucker outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
2	B	106	G	18
2	B	103	A	2
2	B	108	G	1

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

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

6.5 Carbohydrates (i)

There are no monosaccharides in this entry.

6.6 Ligand geometry (i)

There are no ligands in this entry.

6.7 Other polymers (i)

There are no such molecules in this entry.

6.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

7 Chemical shift validation (i)

The completeness of assignment taking into account all chemical shift lists is 80% for the well-defined parts and 79% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *FUS_SL3.str*

7.1.1 Bookkeeping (i)

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

Total number of shifts	1761
Number of shifts mapped to atoms	1761
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

7.1.2 Chemical shift referencing (i)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	125	-0.05 ± 0.09	None needed (< 0.5 ppm)
$^{13}C_{\beta}$	108	-0.10 ± 0.13	None needed (< 0.5 ppm)
$^{13}C'$	118	-0.04 ± 0.15	None needed (< 0.5 ppm)
^{15}N	121	0.40 ± 0.32	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments (i)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 80%, i.e. 1218 atoms were assigned a chemical shift out of a possible 1519. 0 out of 7 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	371/377 (98%)	154/154 (100%)	146/152 (96%)	71/71 (100%)
Sidechain	502/525 (96%)	342/342 (100%)	152/169 (90%)	8/14 (57%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	71/90 (79%)	43/44 (98%)	27/45 (60%)	1/1 (100%)
Sugar	190/308 (62%)	103/168 (61%)	87/140 (62%)	0/0 (—%)
Base	84/219 (38%)	42/135 (31%)	42/49 (86%)	0/35 (0%)
Overall	1218/1519 (80%)	684/843 (81%)	454/555 (82%)	80/121 (66%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 79%, i.e. 1749 atoms were assigned a chemical shift out of a possible 2206. 0 out of 8 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	628/667 (94%)	264/279 (95%)	243/262 (93%)	121/126 (96%)
Sidechain	754/885 (85%)	511/561 (91%)	226/272 (83%)	17/52 (33%)
Aromatic	93/127 (73%)	55/63 (87%)	37/62 (60%)	1/2 (50%)
Sugar	190/308 (62%)	103/168 (61%)	87/140 (62%)	0/0 (—%)
Base	84/219 (38%)	42/135 (31%)	42/49 (86%)	0/35 (0%)
Overall	1749/2206 (79%)	975/1206 (81%)	635/785 (81%)	139/215 (65%)

7.1.4 Statistically unusual chemical shifts (i)

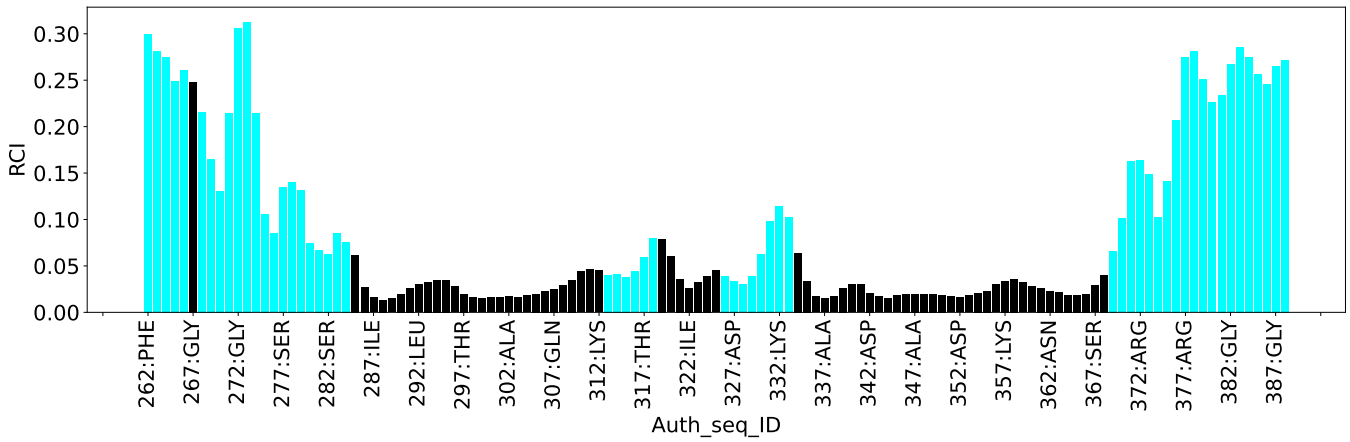
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, *ppm*	Expected range, *ppm*	Z-score
1	A	353	TRP	HD1	5.31	5.46 – 8.81	-5.5

7.1.5 Random Coil Index (RCI) plots (i)

The image below reports *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble composition.If well-defined core and ill-defined regions are not identified then it is shown as gray bars.

Random coil index (RCI) for chain A:


RCI
0.00
0.05
0.10
0.15
0.20
0.25
0.30
262:PHE
267:GLY
272:GLY
277:SER
282:SER
287:ILE
292:LEU
297:THR
302:ALA
307:GLN
312:LYS
317:THR
322:ILE
327:ASP
332:LYS
337:ALA
342:ASP
347:ALA
352:ASP
357:LYS
362:ASN
367:SER
372:ARG
377:ARG
382:GLY
387:GLY
Auth_seq_ID

8 NMR restraints analysis (i)

8.1 Conformationally restricting restraints (i)

The following table provides the summary of experimentally observed NMR restraints in different categories. Restraints are classified into different categories based on the sequence separation of the atoms involved.

Description	Value
Total distance restraints	3578
Intra-residue (|i-j|=0)	595
Sequential (|i-j|=1)	981
Medium range (|i-j|>1 and |i-j|<5)	566
Long range (|i-j|≥5)	1288
Inter-chain	88
Hydrogen bond restraints	60
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	22.5
Number of long range restraints per residue[1]	8.3

[1]Long range hydrogen bonds and disulfide bonds are counted as long range restraints while calculating the number of long range restraints per residue

8.2 Residual restraint violations (i)

This section provides the overview of the restraint violations analysis. The violations are binned as small, medium and large violations based on its absolute value. Average number of violations per model is calculated by dividing the total number of violations in each bin by the size of the ensemble.

8.2.1 Average number of distance violations per model (i)

Distance violations less than 0.1 Å are not included in the calculation.

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	55.9	0.2
0.2-0.5 (Medium)	6.7	0.38
>0.5 (Large)	None	None

8.2.2 Average number of dihedral-angle violations per model (i)

Dihedral-angle violations less than 1° are not included in the calculation.There are no dihedral-angle violations

9 Distance violation analysis (i)

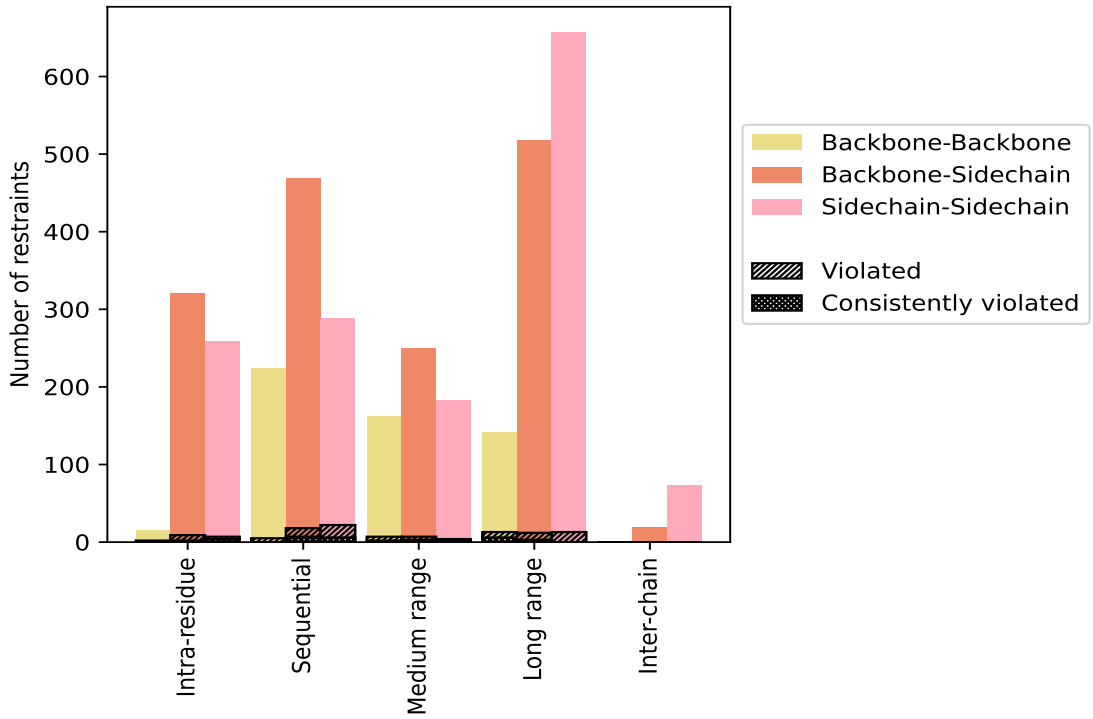
9.1 Summary of distance violations (i)

The following table shows the summary of distance violations in different restraint categories based on the sequence separation of the atoms involved. Each category is further sub-divided into three sub-categories based on the atoms involved. Violations less than 0.1 Å are not included in the statistics.

Restraints type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
Intra-residue (|i-j|=0)	595	16.6	18	3.0	0.5	6	1.0	0.2
Backbone-Backbone	15	0.4	2	13.3	0.1	0	0.0	0.0
Backbone-Sidechain	321	9.0	9	2.8	0.3	2	0.6	0.1
Sidechain-Sidechain	259	7.2	7	2.7	0.2	4	1.5	0.1
Sequential (|i-j|=1)	981	27.4	45	4.6	1.3	13	1.3	0.4
Backbone-Backbone	224	6.3	5	2.2	0.1	0	0.0	0.0
Backbone-Sidechain	469	13.1	18	3.8	0.5	7	1.5	0.2
Sidechain-Sidechain	288	8.0	22	7.6	0.6	6	2.1	0.2
Medium range (|i-j|>1 & |i-j|<5)	566	15.8	18	3.2	0.5	7	1.2	0.2
Backbone-Backbone	134	3.7	7	5.2	0.2	2	1.5	0.1
Backbone-Sidechain	250	7.0	7	2.8	0.2	3	1.2	0.1
Sidechain-Sidechain	182	5.1	4	2.2	0.1	2	1.1	0.1
Long range (|i-j|≥5)	1288	36.0	38	3.0	1.1	9	0.7	0.3
Backbone-Backbone	113	3.2	13	11.5	0.4	6	5.3	0.2
Backbone-Sidechain	518	14.5	12	2.3	0.3	3	0.6	0.1
Sidechain-Sidechain	657	18.4	13	2.0	0.4	0	0.0	0.0
Inter-chain	88	2.5	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	15	0.4	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	73	2.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	60	1.7	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	3578	100.0	119	3.3	3.3	35	1.0	1.0
Backbone-Backbone	542	15.1	27	5.0	0.8	8	1.5	0.2
Backbone-Sidechain	1577	44.1	46	2.9	1.3	15	1.0	0.4
Sidechain-Sidechain	1459	40.8	46	3.2	1.3	12	0.8	0.3

[1] percentage calculated with respect to the total number of distance restraints, [2] percentage calculated with respect to the number of restraints in a particular restraint category, [3] violated in at least one model, [4] violated in all the models

9.1.1 Bar chart : Distribution of distance restraints and violations (i)



Violated and consistently violated restraints are shown using different hatch patterns in their respective categories. The hydrogen bonds and disulfied bonds are counted in their appropriate category on the x-axis

9.2 Distance violation statistics for each model (i)

The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å are not included in the statistics.

Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
1	11	27	10	13	0	61	0.15	0.35	0.05	0.14
2	10	24	13	20	0	67	0.15	0.3	0.04	0.15
3	9	26	11	19	0	65	0.16	0.34	0.05	0.14
4	10	26	10	18	0	64	0.15	0.38	0.05	0.14
5	12	28	13	11	0	64	0.15	0.32	0.05	0.13
6	13	28	11	13	0	65	0.15	0.31	0.04	0.14
7	11	25	11	15	0	62	0.16	0.3	0.04	0.15
8	10	24	11	20	0	65	0.15	0.3	0.04	0.14
9	10	26	10	12	0	58	0.16	0.35	0.05	0.16
10	12	23	11	13	0	59	0.16	0.35	0.05	0.15
11	12	25	9	15	0	61	0.15	0.33	0.04	0.14

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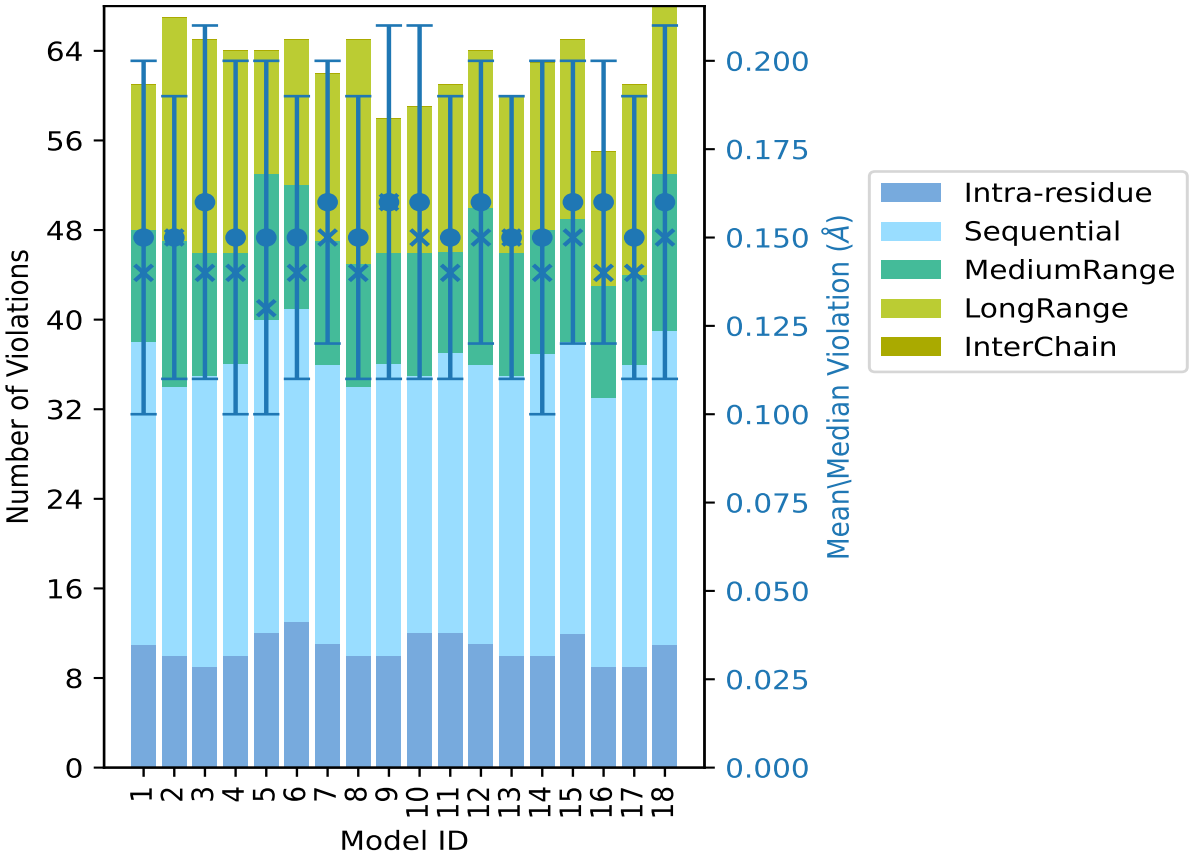
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
12	11	25	14	14	0	64	0.16	0.32	0.04	0.15
13	10	25	11	14	0	60	0.15	0.29	0.04	0.15
14	10	27	11	15	0	63	0.15	0.31	0.05	0.14
15	12	26	11	16	0	65	0.16	0.32	0.04	0.15
16	9	24	10	12	0	55	0.16	0.3	0.04	0.14
17	9	27	8	17	0	61	0.15	0.33	0.04	0.14
18	11	28	14	15	0	68	0.16	0.33	0.05	0.15

[1]Intra-residue restraints, [2]Sequential restraints, [3]Medium range restraints, [4]Long range restraints, [5]Inter-chain restraints, [6]Standard deviation

9.2.1 Bar graph : Distance Violation statistics for each model (i)



The mean(dot),median(x) and the standard deviation are shown in blue with respect to the y axis on the right

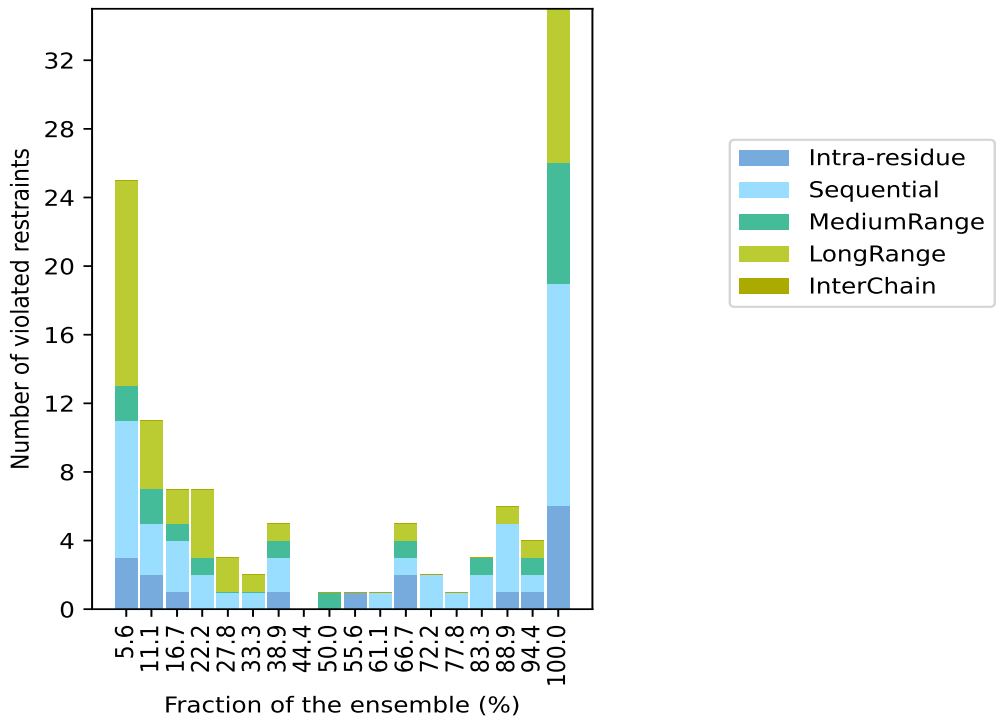
9.3 Distance violation statistics for the ensemble (i)

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 3399(IR:577, SQ:936, MR:548, LR:1250, IC:88) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total	Count[6]	%
3	8	2	12	0	25	1	5.6
2	3	2	4	0	11	2	11.1
1	3	1	2	0	7	3	16.7
0	2	1	4	0	7	4	22.2
0	1	0	2	0	3	5	27.8
0	1	0	1	0	2	6	33.3
1	2	1	1	0	5	7	38.9
0	0	0	0	0	0	8	44.4
0	0	1	0	0	1	9	50.0
1	0	0	0	0	1	10	55.6
0	1	0	0	0	1	11	61.1
2	1	1	1	0	5	12	66.7
0	2	0	0	0	2	13	72.2
0	1	0	0	0	1	14	77.8
0	2	1	0	0	3	15	83.3
1	4	0	1	0	6	16	88.9
1	1	1	1	0	4	17	94.4
6	13	7	9	0	35	18	100.0

[1]Intra-residue restraints, [2]Sequential restraints, [3]Medium range restraints, [4]Long range restraints, [5]Inter-chain restraints, [6] Number of models with violations

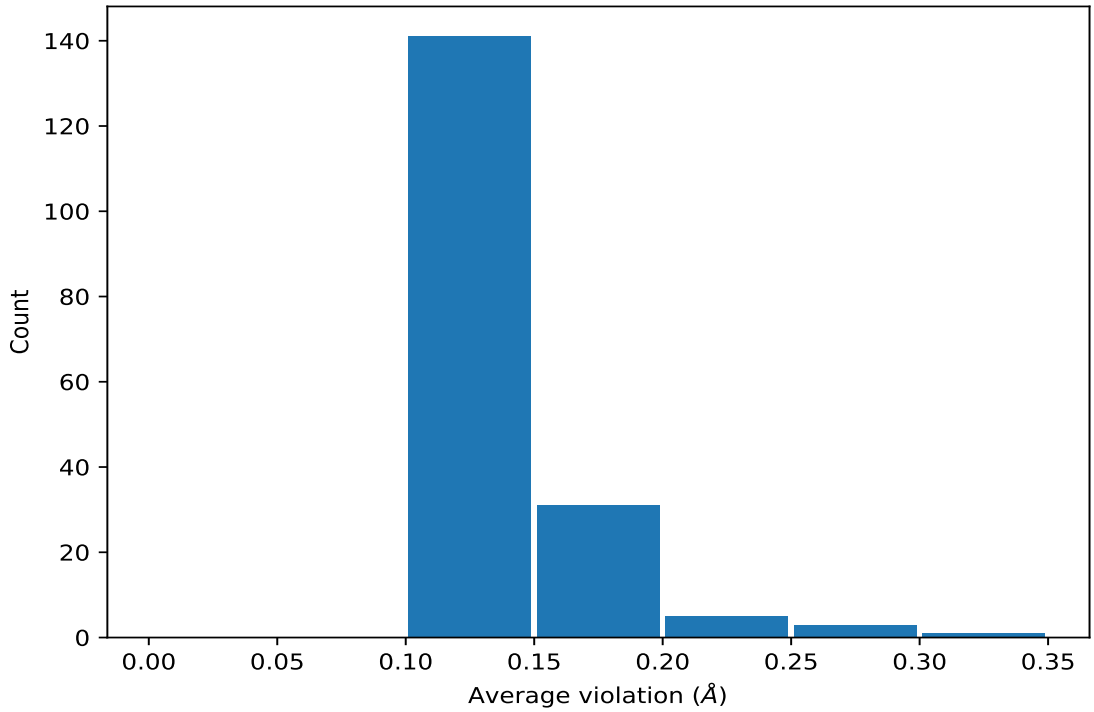
9.3.1 Bar graph : Distance violation statistics for the ensemble (i)



9.4 Most violated distance restraints in the ensemble (i)

9.4.1 Histogram : Distribution of mean distance violations (i)

The following histogram shows the distribution of the average value of the violation. The average is calculated for each restraint that is violated in more than one model over all the violated models in the ensemble



9.4.2 Table: Most violated distance restraints (i)

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	18	0.3	0.04	0.32
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	18	0.28	0.04	0.29
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	18	0.27	0.06	0.27
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	18	0.24	0.03	0.24
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	18	0.21	0.01	0.2
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	18	0.2	0.01	0.2
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	18	0.19	0.01	0.2
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	18	0.19	0.01	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	18	0.19	0.01	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	18	0.19	0.01	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	18	0.19	0.01	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	18	0.19	0.01	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	18	0.19	0.01	0.18
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	18	0.18	0.02	0.18
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	18	0.18	0.01	0.18
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	18	0.18	0.01	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	18	0.18	0.02	0.18
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	18	0.18	0.01	0.17
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	18	0.17	0.01	0.17
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	18	0.17	0.03	0.17
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	18	0.16	0.01	0.17
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	18	0.16	0.01	0.16
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	18	0.16	0.02	0.16
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	18	0.16	0.01	0.16
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	18	0.16	0.01	0.16
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	18	0.15	0.01	0.15
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	18	0.15	0.01	0.15
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	18	0.15	0.01	0.15
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	18	0.15	0.01	0.15
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	18	0.14	0.01	0.15
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	18	0.14	0.01	0.14
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	18	0.13	0.01	0.13
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	18	0.13	0.01	0.13
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	18	0.13	0.01	0.13
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	18	0.13	0.01	0.13
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	18	0.13	0.01	0.13
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	18	0.13	0.01	0.12
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	18	0.12	0.01	0.12
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	18	0.12	0.01	0.12
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	18	0.12	0.01	0.12
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD2	17	0.2	0.03	0.2
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD3	17	0.2	0.03	0.2
(1,2553)	1:A:342:ASP:HA	1:A:343:ASP:HB2	17	0.14	0.02	0.15
(1,2558)	1:A:343:ASP:H	1:A:347:ALA:H	17	0.13	0.02	0.13
(1,1627)	1:A:303:ASP:H	1:A:311:ILE:HG13	17	0.13	0.01	0.13
(1,189)	2:B:104:A:H8	2:B:103:A:H3'	16	0.26	0.03	0.25
(1,194)	2:B:104:A:H8	2:B:105:U:H1'	16	0.16	0.04	0.16
(1,124)	2:B:98:C:H6	2:B:97:U:H3'	16	0.14	0.02	0.14
(1,1307)	1:A:295:ASN:HD21	1:A:359:PHE:HB3	16	0.13	0.02	0.13
(1,3025)	1:A:358:GLU:HG2	1:A:359:PHE:H	16	0.12	0.01	0.12
(1,2846)	1:A:353:TRP:H	1:A:353:TRP:HE3	16	0.11	0.0	0.11
(1,606)	1:A:277:SER:H	1:A:278:GLU:H	15	0.15	0.02	0.14
(1,2570)	1:A:343:ASP:HB3	1:A:345:PRO:HB3	15	0.13	0.01	0.13
(1,1823)	1:A:306:LYS:HD3	1:A:307:GLN:H	15	0.11	0.01	0.11
(1,1267)	1:A:294:GLU:HB2	1:A:295:ASN:HB3	14	0.14	0.03	0.13
(1,3072)	1:A:360:SER:HB3	1:A:361:GLY:HA3	13	0.14	0.02	0.15
(1,259)	2:B:113:A:H8	2:B:112:A:H3'	13	0.13	0.02	0.14
(1,486)	1:A:269:ARG:H	1:A:271:GLN:H	12	0.16	0.02	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	12	0.13	0.01	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	12	0.13	0.01	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	12	0.13	0.01	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	12	0.13	0.01	0.12
(1,1131)	1:A:291:GLY:H	1:A:337:ALA:H	12	0.13	0.01	0.12
(1,1245)	1:A:294:GLU:H	1:A:294:GLU:HA	12	0.12	0.01	0.12
(1,302)	2:B:118:C:H6	2:B:117:C:H3'	12	0.12	0.01	0.12
(1,3325)	1:A:376:ASN:HB3	1:A:377:ARG:HA	11	0.12	0.01	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	10	0.12	0.0	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	10	0.12	0.0	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	10	0.12	0.0	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD11	10	0.12	0.0	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD12	10	0.12	0.0	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD13	10	0.12	0.0	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	10	0.12	0.0	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	10	0.12	0.0	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	10	0.12	0.0	0.12
(1,644)	1:A:279:GLN:HB2	1:A:281:ASN:HD21	9	0.17	0.03	0.16
(1,488)	1:A:269:ARG:H	1:A:271:GLN:HE21	7	0.14	0.03	0.12
(1,3139)	1:A:367:SER:HB2	1:A:368:PHE:HB2	7	0.12	0.01	0.12
(1,1261)	1:A:294:GLU:HA	1:A:333:LEU:H	7	0.12	0.01	0.12
(1,2387)	1:A:330:THR:H	1:A:331:GLY:H	7	0.12	0.0	0.12
(1,2851)	1:A:353:TRP:HA	1:A:353:TRP:HZ3	7	0.11	0.0	0.11
(1,646)	1:A:279:GLN:HB2	1:A:345:PRO:HB3	6	0.14	0.01	0.14
(1,276)	2:B:115:U:H6	2:B:114:C:H3'	6	0.11	0.0	0.11
(1,1273)	1:A:294:GLU:HB3	1:A:333:LEU:HB3	5	0.16	0.01	0.15
(1,2142)	1:A:318:GLY:H	1:A:319:GLN:HG3	5	0.12	0.02	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD11	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD12	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD13	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD11	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD12	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD13	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD11	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD12	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD13	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD21	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD22	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD23	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD21	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD22	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD23	5	0.11	0.0	0.11

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD21	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD22	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD23	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD11	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD12	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD13	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD21	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD22	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD23	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD11	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD12	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD13	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD21	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD22	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD23	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD11	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD12	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD13	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD21	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD22	5	0.11	0.0	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD23	5	0.11	0.0	0.11
(1,752)	1:A:285:ASN:H	1:A:344:PRO:HA	4	0.15	0.03	0.15
(1,356)	1:A:263:ASN:HD21	1:A:267:GLY:H	4	0.13	0.03	0.11
(1,2400)	1:A:331:GLY:HA2	1:A:332:LYS:HA	4	0.13	0.01	0.13
(1,195)	2:B:104:A:H62	2:B:105:U:H3	4	0.12	0.01	0.12
(1,2007)	1:A:310:ILE:HB	1:A:343:ASP:HB2	4	0.12	0.01	0.12
(1,1236)	1:A:293:GLY:H	1:A:335:GLY:HA2	4	0.12	0.0	0.12
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG11	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG12	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG13	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG11	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG12	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG13	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG11	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG12	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG13	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG21	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG22	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG23	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG21	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG22	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG23	4	0.11	0.0	0.11

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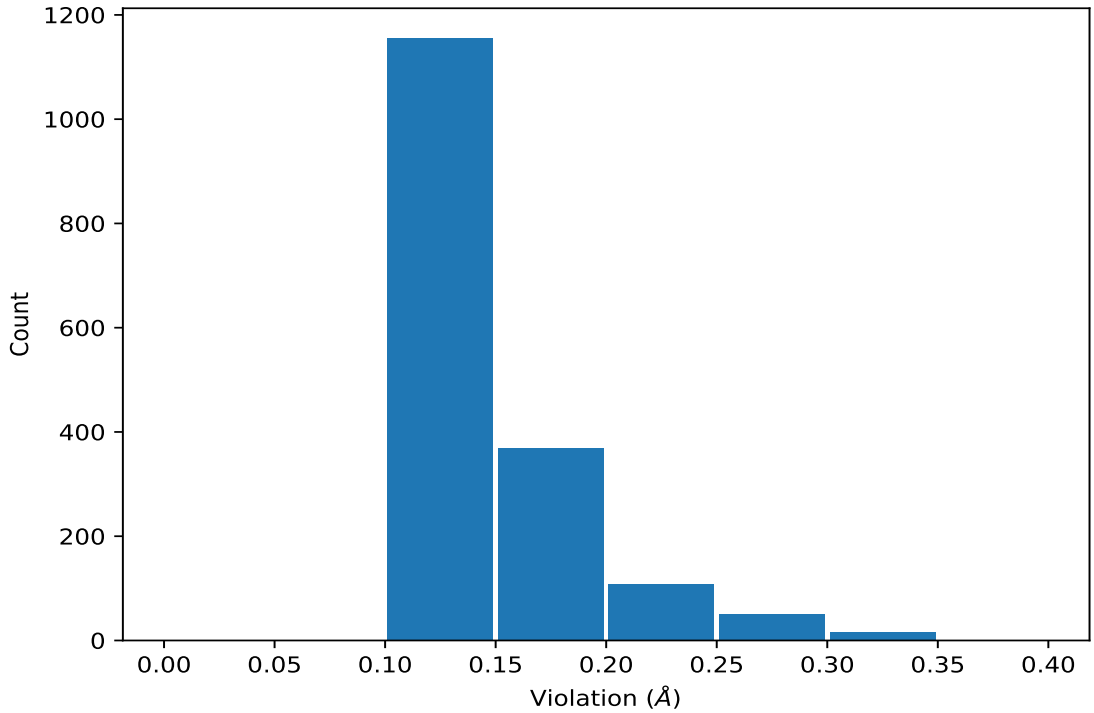
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG21	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG22	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG23	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG11	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG12	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG13	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG21	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG22	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG23	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG11	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG12	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG13	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG21	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG22	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG23	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG11	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG12	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG13	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG21	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG22	4	0.11	0.0	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG23	4	0.11	0.0	0.11
(1,2314)	1:A:327:ASP:HA	1:A:334:LYS:HA	3	0.18	0.03	0.19
(1,2695)	1:A:348:LYS:HE2	1:A:368:PHE:HZ	3	0.12	0.01	0.12
(1,3154)	1:A:369:ALA:H	1:A:370:THR:HB	3	0.12	0.01	0.12
(1,18)	2:B:92:G:H8	2:B:91:G:H3'	3	0.12	0.0	0.12
(1,581)	1:A:274:ARG:HA	1:A:275:HIS:HD2	3	0.12	0.01	0.11
(1,1)	2:B:91:G:H1'	2:B:91:G:H8	3	0.11	0.0	0.11
(1,1231)	1:A:293:GLY:H	1:A:296:VAL:H	3	0.11	0.0	0.11
(1,187)	2:B:104:A:H8	2:B:103:A:H1'	2	0.15	0.03	0.15
(1,1255)	1:A:294:GLU:H	1:A:333:LEU:HG	2	0.14	0.01	0.14
(1,2110)	1:A:314:ASN:HB2	1:A:317:THR:H	2	0.14	0.01	0.14
(1,133)	2:B:99:C:H6	2:B:98:C:H1'	2	0.13	0.01	0.13
(1,487)	1:A:269:ARG:H	1:A:271:GLN:HB2	2	0.12	0.01	0.12
(1,951)	1:A:288:PHE:H	1:A:369:ALA:H	2	0.12	0.01	0.12
(1,2128)	1:A:316:LYS:H	1:A:316:LYS:HG3	2	0.12	0.01	0.12
(1,2335)	1:A:327:ASP:HB3	1:A:332:LYS:H	2	0.12	0.01	0.12
(1,2279)	1:A:326:THR:HB	1:A:333:LEU:HA	2	0.12	0.0	0.12
(1,128)	2:B:99:C:H6	2:B:99:C:H1'	2	0.11	0.0	0.11
(1,1701)	1:A:305:PHE:H	1:A:306:LYS:HG3	2	0.11	0.0	0.11

[1]Number of violated models, [2]Standard deviation

9.5 All violated distance restraints (i)

9.5.1 Histogram : Distribution of distance violations (i)

The following histogram shows the distribution of the absolute value of the violation for all violated restraints in the ensemble.



9.5.2 Table : All distance violations (i)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	4	0.38
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	1	0.35
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	10	0.35
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	9	0.35
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	3	0.34
(1,189)	2:B:104:A:H8	2:B:103:A:H3'	1	0.34
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	11	0.33
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	17	0.33
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	18	0.33
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	18	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	5	0.32
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	9	0.32
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	12	0.32
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	15	0.32
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	4	0.31
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	6	0.31
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	14	0.31
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	6	0.31
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	5	0.3
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	7	0.3
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	10	0.3
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	16	0.3
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	2	0.3
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	3	0.3
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	8	0.3
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	12	0.3
(1,189)	2:B:104:A:H8	2:B:103:A:H3'	3	0.3
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	1	0.29
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	9	0.29
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	13	0.29
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	15	0.29
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	16	0.29
(1,189)	2:B:104:A:H8	2:B:103:A:H3'	10	0.29
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	7	0.28
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	9	0.28
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	10	0.28
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	14	0.28
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	11	0.28
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	14	0.28
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	4	0.27
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	3	0.27
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	18	0.27
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	2	0.27
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	14	0.27
(1,189)	2:B:104:A:H8	2:B:103:A:H3'	9	0.27
(1,189)	2:B:104:A:H8	2:B:103:A:H3'	18	0.27
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD2	5	0.26
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD3	5	0.26
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	5	0.26
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	17	0.26
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	4	0.26
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	13	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	6	0.26
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	11	0.26
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	13	0.26
(1,189)	2:B:104:A:H8	2:B:103:A:H3'	7	0.26
(1,189)	2:B:104:A:H8	2:B:103:A:H3'	8	0.26
(1,576)	1:A:274:ARG:H	1:A:274:ARG:HD2	7	0.25
(1,576)	1:A:274:ARG:H	1:A:274:ARG:HD3	7	0.25
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD2	10	0.25
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD3	10	0.25
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	11	0.25
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	16	0.25
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	2	0.25
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	1	0.25
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	7	0.25
(1,189)	2:B:104:A:H8	2:B:103:A:H3'	12	0.25
(1,189)	2:B:104:A:H8	2:B:103:A:H3'	16	0.25
(1,189)	2:B:104:A:H8	2:B:103:A:H3'	17	0.25
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD2	3	0.24
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD3	3	0.24
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	12	0.24
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	16	0.24
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	7	0.24
(1,189)	2:B:104:A:H8	2:B:103:A:H3'	5	0.24
(1,189)	2:B:104:A:H8	2:B:103:A:H3'	15	0.24
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD2	2	0.23
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD3	2	0.23
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD2	6	0.23
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD3	6	0.23
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD2	12	0.23
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD3	12	0.23
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	8	0.23
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	13	0.23
(1,2103)	1:A:314:ASN:H	1:A:314:ASN:HD21	8	0.23
(1,194)	2:B:104:A:H8	2:B:105:U:H1'	17	0.23
(1,189)	2:B:104:A:H8	2:B:103:A:H3'	13	0.23
(1,644)	1:A:279:GLN:HB2	1:A:281:ASN:HD21	9	0.22
(1,2314)	1:A:327:ASP:HA	1:A:334:LYS:HA	14	0.22
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	1	0.22
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	2	0.22
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	18	0.22
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	10	0.22
(1,194)	2:B:104:A:H8	2:B:105:U:H1'	15	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,189)	2:B:104:A:H8	2:B:103:A:H3'	2	0.22
(1,189)	2:B:104:A:H8	2:B:103:A:H3'	4	0.22
(1,189)	2:B:104:A:H8	2:B:103:A:H3'	6	0.22
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	7	0.22
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	1	0.22
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	11	0.22
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	12	0.22
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	16	0.22
(1,486)	1:A:269:ARG:H	1:A:271:GLN:H	8	0.21
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD2	13	0.21
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD3	13	0.21
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD2	18	0.21
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD3	18	0.21
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	2	0.21
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	18	0.21
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	7	0.21
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	4	0.21
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	5	0.21
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	6	0.21
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	12	0.21
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	14	0.21
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	15	0.21
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	17	0.21
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	6	0.21
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	12	0.21
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	15	0.21
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	8	0.21
(1,194)	2:B:104:A:H8	2:B:105:U:H1'	12	0.21
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	9	0.21
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	15	0.21
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	3	0.21
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	2	0.21
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	3	0.21
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	4	0.21
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	9	0.21
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	14	0.21
(1,606)	1:A:277:SER:H	1:A:278:GLU:H	18	0.2
(1,486)	1:A:269:ARG:H	1:A:271:GLN:H	15	0.2
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD2	7	0.2
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD3	7	0.2
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD2	9	0.2
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD3	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	5	0.2
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	6	0.2
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	9	0.2
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	10	0.2
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	12	0.2
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	13	0.2
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	14	0.2
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	16	0.2
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	15	0.2
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	16	0.2
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	9	0.2
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	10	0.2
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	16	0.2
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	7	0.2
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	9	0.2
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	11	0.2
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	16	0.2
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	18	0.2
(1,2226)	1:A:325:TYR:H	1:A:338:THR:H	3	0.2
(1,2162)	1:A:321:MET:HG3	1:A:340:SER:H	17	0.2
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	5	0.2
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	14	0.2
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	18	0.2
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	10	0.2
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	10	0.2
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	10	0.2
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	10	0.2
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	10	0.2
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	10	0.2
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	5	0.2
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	6	0.2
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	17	0.2
(1,124)	2:B:98:C:H6	2:B:97:U:H3'	5	0.2
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	5	0.2
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	6	0.2
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	7	0.2
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	10	0.2
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	13	0.2
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	15	0.2
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	17	0.2
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	18	0.2
(1,644)	1:A:279:GLN:HB2	1:A:281:ASN:HD21	13	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,488)	1:A:269:ARG:H	1:A:271:GLN:HE21	17	0.19
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD2	8	0.19
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD3	8	0.19
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	1	0.19
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	3	0.19
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	7	0.19
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	15	0.19
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	9	0.19
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	1	0.19
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	8	0.19
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	11	0.19
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	14	0.19
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	18	0.19
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	1	0.19
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	2	0.19
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	3	0.19
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	8	0.19
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	10	0.19
(1,2368)	1:A:329:GLU:HB2	1:A:330:THR:HA	13	0.19
(1,2314)	1:A:327:ASP:HA	1:A:334:LYS:HA	18	0.19
(1,194)	2:B:104:A:H8	2:B:105:U:H1'	9	0.19
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	6	0.19
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	8	0.19
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	12	0.19
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	1	0.19
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	3	0.19
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	4	0.19
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	6	0.19
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	8	0.19
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	16	0.19
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	17	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	2	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	2	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	2	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	2	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	2	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	2	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	3	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	3	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	3	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	3	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	3	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	5	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	5	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	5	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	5	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	5	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	5	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	6	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	6	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	6	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	6	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	6	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	6	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	8	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	8	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	8	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	8	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	8	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	8	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	12	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	12	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	12	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	12	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	12	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	12	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	14	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	14	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	14	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	14	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	14	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	14	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	15	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	15	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	15	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	15	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	15	0.19
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	15	0.19
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	2	0.19
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	4	0.19
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	9	0.19
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	1	0.19
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	8	0.19
(1,1267)	1:A:294:GLU:HB2	1:A:295:ASN:HB3	3	0.19
(1,1267)	1:A:294:GLU:HB2	1:A:295:ASN:HB3	12	0.19
(1,1134)	1:A:291:GLY:H	1:A:365:LYS:H	8	0.19
(1,752)	1:A:285:ASN:H	1:A:344:PRO:HA	17	0.18
(1,644)	1:A:279:GLN:HB2	1:A:281:ASN:HD21	2	0.18
(1,488)	1:A:269:ARG:H	1:A:271:GLN:HE21	11	0.18
(1,486)	1:A:269:ARG:H	1:A:271:GLN:H	2	0.18
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD2	4	0.18
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD3	4	0.18
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD2	14	0.18
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD3	14	0.18
(1,356)	1:A:263:ASN:HD21	1:A:267:GLY:H	18	0.18
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	1	0.18
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	4	0.18
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	10	0.18
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	11	0.18
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	1	0.18
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	4	0.18
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	6	0.18
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	12	0.18
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	18	0.18
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	2	0.18
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	13	0.18
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	17	0.18
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	16	0.18
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	17	0.18
(1,194)	2:B:104:A:H8	2:B:105:U:H1'	6	0.18
(1,194)	2:B:104:A:H8	2:B:105:U:H1'	18	0.18
(1,187)	2:B:104:A:H8	2:B:103:A:H1'	11	0.18
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	4	0.18
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	5	0.18
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	7	0.18
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	12	0.18
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	17	0.18
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	10	0.18
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	11	0.18
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	16	0.18
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	15	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	1	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	1	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	1	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	1	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	1	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	4	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	4	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	4	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	4	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	4	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	4	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	7	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	7	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	7	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	7	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	7	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	7	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	9	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	9	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	9	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	9	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	9	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	9	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	11	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	11	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	11	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	11	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	11	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	11	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	13	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	13	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	13	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	13	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	13	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	13	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	16	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	16	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	16	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	16	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	16	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	16	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	17	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	17	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	17	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	17	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	17	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	17	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG11	18	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG12	18	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG13	18	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG22	18	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG23	18	0.18
(1,1503)	1:A:301:VAL:H	1:A:301:VAL:HG21	18	0.18
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	1	0.18
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	3	0.18
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	5	0.18
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	7	0.18
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	10	0.18
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	11	0.18
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	12	0.18
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	13	0.18
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	16	0.18
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	18	0.18
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	4	0.18
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	7	0.18
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	9	0.18
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	14	0.18
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	1	0.18
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	4	0.18
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	14	0.18
(1,644)	1:A:279:GLN:HB2	1:A:281:ASN:HD21	18	0.17
(1,606)	1:A:277:SER:H	1:A:278:GLU:H	7	0.17
(1,606)	1:A:277:SER:H	1:A:278:GLU:H	16	0.17
(1,486)	1:A:269:ARG:H	1:A:271:GLN:H	10	0.17
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD2	11	0.17
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD3	11	0.17
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD2	16	0.17
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD3	16	0.17
(1,3072)	1:A:360:SER:HB3	1:A:361:GLY:HA3	3	0.17
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	17	0.17
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	2	0.17
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	3	0.17
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	5	0.17
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	6	0.17
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	8	0.17
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	12	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	14	0.17
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	18	0.17
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	18	0.17
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	8	0.17
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	2	0.17
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	3	0.17
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	5	0.17
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	7	0.17
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	8	0.17
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	10	0.17
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	14	0.17
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	17	0.17
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	7	0.17
(1,259)	2:B:113:A:H8	2:B:112:A:H3'	15	0.17
(1,259)	2:B:113:A:H8	2:B:112:A:H3'	18	0.17
(1,2553)	1:A:342:ASP:HA	1:A:343:ASP:HB2	2	0.17
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	3	0.17
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	6	0.17
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	15	0.17
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	6	0.17
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	8	0.17
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	9	0.17
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	15	0.17
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	2	0.17
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	3	0.17
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	15	0.17
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	6	0.17
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	10	0.17
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	11	0.17
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	13	0.17
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	15	0.17
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	16	0.17
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	2	0.17
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	5	0.17
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	7	0.17
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	9	0.17
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	10	0.17
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	12	0.17
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	15	0.17
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	3	0.17
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	10	0.17
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	8	0.17
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	15	0.17
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	17	0.17
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	2	0.17
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	11	0.17
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	13	0.17
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	16	0.17
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	18	0.17
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	2	0.17
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	7	0.17
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	9	0.17
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	10	0.17
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	11	0.17
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	12	0.17
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	13	0.17
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	15	0.17
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	16	0.17
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	18	0.17
(1,1273)	1:A:294:GLU:HB3	1:A:333:LEU:HB3	2	0.17
(1,1267)	1:A:294:GLU:HB2	1:A:295:ASN:HB3	8	0.17
(1,1267)	1:A:294:GLU:HB2	1:A:295:ASN:HB3	18	0.17
(1,762)	1:A:285:ASN:HB2	1:A:344:PRO:HA	15	0.16
(1,752)	1:A:285:ASN:H	1:A:344:PRO:HA	15	0.16
(1,644)	1:A:279:GLN:HB2	1:A:281:ASN:HD21	6	0.16
(1,644)	1:A:279:GLN:HB2	1:A:281:ASN:HD21	7	0.16
(1,644)	1:A:279:GLN:HB2	1:A:281:ASN:HD21	12	0.16
(1,606)	1:A:277:SER:H	1:A:278:GLU:H	6	0.16
(1,486)	1:A:269:ARG:H	1:A:271:GLN:H	3	0.16
(1,486)	1:A:269:ARG:H	1:A:271:GLN:H	4	0.16
(1,486)	1:A:269:ARG:H	1:A:271:GLN:H	6	0.16
(1,486)	1:A:269:ARG:H	1:A:271:GLN:H	9	0.16
(1,486)	1:A:269:ARG:H	1:A:271:GLN:H	12	0.16
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD2	1	0.16
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD3	1	0.16
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD2	15	0.16
(1,369)	1:A:264:LYS:H	1:A:264:LYS:HD3	15	0.16
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	2	0.16
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	13	0.16
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	14	0.16
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	17	0.16
(1,341)	1:A:263:ASN:H	1:A:266:GLY:H	18	0.16
(1,3072)	1:A:360:SER:HB3	1:A:361:GLY:HA3	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3072)	1:A:360:SER:HB3	1:A:361:GLY:HA3	13	0.16
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	4	0.16
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	9	0.16
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	15	0.16
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	1	0.16
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	9	0.16
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	13	0.16
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	15	0.16
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	16	0.16
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	1	0.16
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	2	0.16
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	4	0.16
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	6	0.16
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	8	0.16
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	9	0.16
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	10	0.16
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	11	0.16
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	13	0.16
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	16	0.16
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	17	0.16
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	4	0.16
(1,2797)	1:A:351:ILE:HG12	1:A:355:ASP:H	17	0.16
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	11	0.16
(1,268)	2:B:114:C:H6	2:B:113:A:H3'	13	0.16
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	9	0.16
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	17	0.16
(1,2558)	1:A:343:ASP:H	1:A:347:ALA:H	2	0.16
(1,2558)	1:A:343:ASP:H	1:A:347:ALA:H	15	0.16
(1,2558)	1:A:343:ASP:H	1:A:347:ALA:H	18	0.16
(1,2553)	1:A:342:ASP:HA	1:A:343:ASP:HB2	6	0.16
(1,2553)	1:A:342:ASP:HA	1:A:343:ASP:HB2	9	0.16
(1,2553)	1:A:342:ASP:HA	1:A:343:ASP:HB2	13	0.16
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	4	0.16
(1,2142)	1:A:318:GLY:H	1:A:319:GLN:HG3	8	0.16
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	1	0.16
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	14	0.16
(1,206)	2:B:106:G:H1'	2:B:107:U:H6	15	0.16
(1,194)	2:B:104:A:H8	2:B:105:U:H1'	3	0.16
(1,194)	2:B:104:A:H8	2:B:105:U:H1'	10	0.16
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	2	0.16
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	3	0.16
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	16	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	1	0.16
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	4	0.16
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	1	0.16
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	4	0.16
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	5	0.16
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	7	0.16
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	8	0.16
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	9	0.16
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	12	0.16
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	17	0.16
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	18	0.16
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	11	0.16
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	12	0.16
(1,1595)	1:A:302:ALA:HA	1:A:311:ILE:H	13	0.16
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	6	0.16
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	7	0.16
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	9	0.16
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	10	0.16
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	16	0.16
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	17	0.16
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	18	0.16
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	5	0.16
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	7	0.16
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	11	0.16
(1,1461)	1:A:299:GLU:HB2	1:A:300:SER:H	14	0.16
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	6	0.16
(1,1307)	1:A:295:ASN:HD21	1:A:359:PHE:HB3	3	0.16
(1,1307)	1:A:295:ASN:HD21	1:A:359:PHE:HB3	10	0.16
(1,1307)	1:A:295:ASN:HD21	1:A:359:PHE:HB3	18	0.16
(1,1273)	1:A:294:GLU:HB3	1:A:333:LEU:HB3	3	0.16
(1,124)	2:B:98:C:H6	2:B:97:U:H3'	1	0.16
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	11	0.16
(1,606)	1:A:277:SER:H	1:A:278:GLU:H	4	0.15
(1,606)	1:A:277:SER:H	1:A:278:GLU:H	10	0.15
(1,606)	1:A:277:SER:H	1:A:278:GLU:H	17	0.15
(1,488)	1:A:269:ARG:H	1:A:271:GLN:HE21	14	0.15
(1,486)	1:A:269:ARG:H	1:A:271:GLN:H	7	0.15
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	3	0.15
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	5	0.15
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	8	0.15
(1,338)	1:A:263:ASN:H	1:A:264:LYS:H	18	0.15
(1,3072)	1:A:360:SER:HB3	1:A:361:GLY:HA3	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3072)	1:A:360:SER:HB3	1:A:361:GLY:HA3	11	0.15
(1,3072)	1:A:360:SER:HB3	1:A:361:GLY:HA3	14	0.15
(1,3072)	1:A:360:SER:HB3	1:A:361:GLY:HA3	18	0.15
(1,3025)	1:A:358:GLU:HG2	1:A:359:PHE:H	17	0.15
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	15	0.15
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	2	0.15
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	6	0.15
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	7	0.15
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	10	0.15
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	11	0.15
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	12	0.15
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	13	0.15
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	14	0.15
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	16	0.15
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	15	0.15
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	7	0.15
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	11	0.15
(1,284)	2:B:116:C:H6	2:B:115:U:H3'	17	0.15
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	3	0.15
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	5	0.15
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	7	0.15
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	12	0.15
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	14	0.15
(1,28)	2:B:93:G:H1'	2:B:93:G:H8	15	0.15
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	1	0.15
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	2	0.15
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	8	0.15
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	10	0.15
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	11	0.15
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	12	0.15
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	13	0.15
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	15	0.15
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	16	0.15
(1,259)	2:B:113:A:H8	2:B:112:A:H3'	17	0.15
(1,2570)	1:A:343:ASP:HB3	1:A:345:PRO:HB3	10	0.15
(1,2570)	1:A:343:ASP:HB3	1:A:345:PRO:HB3	13	0.15
(1,2558)	1:A:343:ASP:H	1:A:347:ALA:H	3	0.15
(1,2558)	1:A:343:ASP:H	1:A:347:ALA:H	9	0.15
(1,2558)	1:A:343:ASP:H	1:A:347:ALA:H	12	0.15
(1,2558)	1:A:343:ASP:H	1:A:347:ALA:H	13	0.15
(1,2553)	1:A:342:ASP:HA	1:A:343:ASP:HB2	3	0.15
(1,2553)	1:A:342:ASP:HA	1:A:343:ASP:HB2	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2553)	1:A:342:ASP:HA	1:A:343:ASP:HB2	10	0.15
(1,2553)	1:A:342:ASP:HA	1:A:343:ASP:HB2	12	0.15
(1,2553)	1:A:342:ASP:HA	1:A:343:ASP:HB2	18	0.15
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	12	0.15
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	12	0.15
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	18	0.15
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	2	0.15
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	4	0.15
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	5	0.15
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	6	0.15
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	7	0.15
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	8	0.15
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	10	0.15
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	12	0.15
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	15	0.15
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	18	0.15
(1,194)	2:B:104:A:H8	2:B:105:U:H1'	1	0.15
(1,190)	2:B:104:A:H2	2:B:103:A:H2	14	0.15
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	10	0.15
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	13	0.15
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	13	0.15
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	14	0.15
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	2	0.15
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	3	0.15
(1,1631)	1:A:303:ASP:HA	1:A:306:LYS:HA	14	0.15
(1,1627)	1:A:303:ASP:H	1:A:311:ILE:HG13	4	0.15
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	1	0.15
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	3	0.15
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	4	0.15
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	5	0.15
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	8	0.15
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	11	0.15
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	13	0.15
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	14	0.15
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	1	0.15
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	2	0.15
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	4	0.15
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	8	0.15
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	9	0.15
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	12	0.15
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	13	0.15
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	16	0.15
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	17	0.15
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	18	0.15
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	8	0.15
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	12	0.15
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	5	0.15
(1,1324)	1:A:296:VAL:HA	1:A:301:VAL:H	17	0.15
(1,1273)	1:A:294:GLU:HB3	1:A:333:LEU:HB3	8	0.15
(1,1273)	1:A:294:GLU:HB3	1:A:333:LEU:HB3	12	0.15
(1,1273)	1:A:294:GLU:HB3	1:A:333:LEU:HB3	18	0.15
(1,1267)	1:A:294:GLU:HB2	1:A:295:ASN:HB3	2	0.15
(1,1267)	1:A:294:GLU:HB2	1:A:295:ASN:HB3	10	0.15
(1,124)	2:B:98:C:H6	2:B:97:U:H3'	6	0.15
(1,124)	2:B:98:C:H6	2:B:97:U:H3'	8	0.15
(1,1131)	1:A:291:GLY:H	1:A:337:ALA:H	2	0.15
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	1	0.15
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	2	0.15
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	3	0.15
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	6	0.15
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	9	0.15
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	10	0.15
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	13	0.15
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	14	0.15
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	15	0.15
(1,698)	1:A:282:SER:H	1:A:283:ASP:H	18	0.14
(1,646)	1:A:279:GLN:HB2	1:A:345:PRO:HB3	4	0.14
(1,646)	1:A:279:GLN:HB2	1:A:345:PRO:HB3	6	0.14
(1,646)	1:A:279:GLN:HB2	1:A:345:PRO:HB3	8	0.14
(1,646)	1:A:279:GLN:HB2	1:A:345:PRO:HB3	15	0.14
(1,646)	1:A:279:GLN:HB2	1:A:345:PRO:HB3	17	0.14
(1,644)	1:A:279:GLN:HB2	1:A:281:ASN:HD21	3	0.14
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	15	0.14
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	15	0.14
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	15	0.14
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	15	0.14
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	16	0.14
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	16	0.14
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	16	0.14
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	16	0.14
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	18	0.14
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	18	0.14
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	18	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	18	0.14
(1,606)	1:A:277:SER:H	1:A:278:GLU:H	3	0.14
(1,606)	1:A:277:SER:H	1:A:278:GLU:H	9	0.14
(1,606)	1:A:277:SER:H	1:A:278:GLU:H	13	0.14
(1,606)	1:A:277:SER:H	1:A:278:GLU:H	15	0.14
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	2	0.14
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	10	0.14
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	13	0.14
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	17	0.14
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	6	0.14
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	7	0.14
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	9	0.14
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	10	0.14
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	12	0.14
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	16	0.14
(1,3325)	1:A:376:ASN:HB3	1:A:377:ARG:HA	10	0.14
(1,3325)	1:A:376:ASN:HB3	1:A:377:ARG:HA	16	0.14
(1,3139)	1:A:367:SER:HB2	1:A:368:PHE:HB2	7	0.14
(1,3072)	1:A:360:SER:HB3	1:A:361:GLY:HA3	2	0.14
(1,3072)	1:A:360:SER:HB3	1:A:361:GLY:HA3	6	0.14
(1,3072)	1:A:360:SER:HB3	1:A:361:GLY:HA3	15	0.14
(1,3025)	1:A:358:GLU:HG2	1:A:359:PHE:H	6	0.14
(1,3025)	1:A:358:GLU:HG2	1:A:359:PHE:H	12	0.14
(1,3025)	1:A:358:GLU:HG2	1:A:359:PHE:H	14	0.14
(1,3025)	1:A:358:GLU:HG2	1:A:359:PHE:H	15	0.14
(1,302)	2:B:118:C:H6	2:B:117:C:H3'	9	0.14
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	1	0.14
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	5	0.14
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	18	0.14
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	3	0.14
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	5	0.14
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	8	0.14
(1,2868)	1:A:353:TRP:HE1	1:A:354:PHE:H	18	0.14
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	6	0.14
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	7	0.14
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	8	0.14
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	1	0.14
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	2	0.14
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	10	0.14
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	11	0.14
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	3	0.14
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	5	0.14
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	18	0.14
(1,259)	2:B:113:A:H8	2:B:112:A:H3'	4	0.14
(1,259)	2:B:113:A:H8	2:B:112:A:H3'	5	0.14
(1,259)	2:B:113:A:H8	2:B:112:A:H3'	9	0.14
(1,259)	2:B:113:A:H8	2:B:112:A:H3'	16	0.14
(1,2570)	1:A:343:ASP:HB3	1:A:345:PRO:HB3	2	0.14
(1,2570)	1:A:343:ASP:HB3	1:A:345:PRO:HB3	12	0.14
(1,2553)	1:A:342:ASP:HA	1:A:343:ASP:HB2	16	0.14
(1,2400)	1:A:331:GLY:HA2	1:A:332:LYS:HA	4	0.14
(1,2392)	1:A:330:THR:HB	1:A:331:GLY:H	5	0.14
(1,2314)	1:A:327:ASP:HA	1:A:334:LYS:HA	11	0.14
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	2	0.14
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	4	0.14
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	7	0.14
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	8	0.14
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	14	0.14
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	15	0.14
(1,2110)	1:A:314:ASN:HB2	1:A:317:THR:H	12	0.14
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	3	0.14
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	13	0.14
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	17	0.14
(1,2007)	1:A:310:ILE:HB	1:A:343:ASP:HB2	15	0.14
(1,195)	2:B:104:A:H62	2:B:105:U:H3	11	0.14
(1,194)	2:B:104:A:H8	2:B:105:U:H1'	5	0.14
(1,194)	2:B:104:A:H8	2:B:105:U:H1'	16	0.14
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	4	0.14
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	6	0.14
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	8	0.14
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	9	0.14
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	12	0.14
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	1	0.14
(1,1627)	1:A:303:ASP:H	1:A:311:ILE:HG13	1	0.14
(1,1627)	1:A:303:ASP:H	1:A:311:ILE:HG13	5	0.14
(1,1627)	1:A:303:ASP:H	1:A:311:ILE:HG13	6	0.14
(1,1627)	1:A:303:ASP:H	1:A:311:ILE:HG13	14	0.14
(1,1627)	1:A:303:ASP:H	1:A:311:ILE:HG13	17	0.14
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	1	0.14
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	2	0.14
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	4	0.14
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	7	0.14
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	10	0.14
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	14	0.14
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	18	0.14
(1,1500)	1:A:300:SER:HB3	1:A:304:TYR:HB2	2	0.14
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	6	0.14
(1,1467)	1:A:299:GLU:HB3	1:A:300:SER:H	14	0.14
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	7	0.14
(1,133)	2:B:99:C:H6	2:B:98:C:H1'	7	0.14
(1,1307)	1:A:295:ASN:HD21	1:A:359:PHE:HB3	9	0.14
(1,1307)	1:A:295:ASN:HD21	1:A:359:PHE:HB3	12	0.14
(1,1307)	1:A:295:ASN:HD21	1:A:359:PHE:HB3	17	0.14
(1,1261)	1:A:294:GLU:HA	1:A:333:LEU:H	11	0.14
(1,1255)	1:A:294:GLU:H	1:A:333:LEU:HG	2	0.14
(1,1245)	1:A:294:GLU:H	1:A:294:GLU:HA	3	0.14
(1,1245)	1:A:294:GLU:H	1:A:294:GLU:HA	8	0.14
(1,1245)	1:A:294:GLU:H	1:A:294:GLU:HA	12	0.14
(1,1245)	1:A:294:GLU:H	1:A:294:GLU:HA	18	0.14
(1,124)	2:B:98:C:H6	2:B:97:U:H3'	3	0.14
(1,124)	2:B:98:C:H6	2:B:97:U:H3'	4	0.14
(1,124)	2:B:98:C:H6	2:B:97:U:H3'	10	0.14
(1,124)	2:B:98:C:H6	2:B:97:U:H3'	15	0.14
(1,1131)	1:A:291:GLY:H	1:A:337:ALA:H	12	0.14
(1,1131)	1:A:291:GLY:H	1:A:337:ALA:H	18	0.14
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	4	0.14
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	7	0.14
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	12	0.14
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	16	0.14
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	17	0.14
(1,951)	1:A:288:PHE:H	1:A:369:ALA:H	4	0.13
(1,752)	1:A:285:ASN:H	1:A:344:PRO:HA	8	0.13
(1,644)	1:A:279:GLN:HB2	1:A:281:ASN:HD21	10	0.13
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	7	0.13
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	7	0.13
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	7	0.13
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	7	0.13
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	10	0.13
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	10	0.13
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	10	0.13
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	10	0.13
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	11	0.13
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	11	0.13
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	11	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	11	0.13
(1,606)	1:A:277:SER:H	1:A:278:GLU:H	1	0.13
(1,606)	1:A:277:SER:H	1:A:278:GLU:H	12	0.13
(1,581)	1:A:274:ARG:HA	1:A:275:HIS:HD2	11	0.13
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	1	0.13
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	3	0.13
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	4	0.13
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	5	0.13
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	6	0.13
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	7	0.13
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	8	0.13
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	9	0.13
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	11	0.13
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	14	0.13
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	15	0.13
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	18	0.13
(1,487)	1:A:269:ARG:H	1:A:271:GLN:HB2	18	0.13
(1,486)	1:A:269:ARG:H	1:A:271:GLN:H	5	0.13
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	4	0.13
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	15	0.13
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	18	0.13
(1,3325)	1:A:376:ASN:HB3	1:A:377:ARG:HA	9	0.13
(1,3325)	1:A:376:ASN:HB3	1:A:377:ARG:HA	14	0.13
(1,3325)	1:A:376:ASN:HB3	1:A:377:ARG:HA	17	0.13
(1,3154)	1:A:369:ALA:H	1:A:370:THR:HB	5	0.13
(1,315)	1:A:262:PHE:HB2	1:A:263:ASN:H	18	0.13
(1,3139)	1:A:367:SER:HB2	1:A:368:PHE:HB2	5	0.13
(1,3139)	1:A:367:SER:HB2	1:A:368:PHE:HB2	9	0.13
(1,3025)	1:A:358:GLU:HG2	1:A:359:PHE:H	11	0.13
(1,302)	2:B:118:C:H6	2:B:117:C:H3'	2	0.13
(1,302)	2:B:118:C:H6	2:B:117:C:H3'	8	0.13
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	3	0.13
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	4	0.13
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	2	0.13
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	3	0.13
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	4	0.13
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	5	0.13
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	7	0.13
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	8	0.13
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	11	0.13
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	16	0.13
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	4	0.13
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	5	0.13
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	9	0.13
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	10	0.13
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	11	0.13
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	14	0.13
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	16	0.13
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	18	0.13
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	3	0.13
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	4	0.13
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	6	0.13
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	7	0.13
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	12	0.13
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	13	0.13
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	17	0.13
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	18	0.13
(1,2695)	1:A:348:LYS:HE2	1:A:368:PHE:HZ	7	0.13
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	6	0.13
(1,2570)	1:A:343:ASP:HB3	1:A:345:PRO:HB3	3	0.13
(1,2570)	1:A:343:ASP:HB3	1:A:345:PRO:HB3	4	0.13
(1,2570)	1:A:343:ASP:HB3	1:A:345:PRO:HB3	6	0.13
(1,2570)	1:A:343:ASP:HB3	1:A:345:PRO:HB3	8	0.13
(1,2570)	1:A:343:ASP:HB3	1:A:345:PRO:HB3	14	0.13
(1,2570)	1:A:343:ASP:HB3	1:A:345:PRO:HB3	15	0.13
(1,2570)	1:A:343:ASP:HB3	1:A:345:PRO:HB3	18	0.13
(1,2558)	1:A:343:ASP:H	1:A:347:ALA:H	6	0.13
(1,2558)	1:A:343:ASP:H	1:A:347:ALA:H	7	0.13
(1,2558)	1:A:343:ASP:H	1:A:347:ALA:H	10	0.13
(1,2553)	1:A:342:ASP:HA	1:A:343:ASP:HB2	1	0.13
(1,2553)	1:A:342:ASP:HA	1:A:343:ASP:HB2	5	0.13
(1,2553)	1:A:342:ASP:HA	1:A:343:ASP:HB2	11	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	7	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	7	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	7	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD11	7	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD12	7	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD13	7	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	7	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	7	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	7	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	16	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	16	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	16	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD11	16	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD12	16	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD13	16	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	16	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	16	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	16	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	17	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	17	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	17	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD11	17	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD12	17	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD13	17	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	17	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	17	0.13
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	17	0.13
(1,2400)	1:A:331:GLY:HA2	1:A:332:LYS:HA	6	0.13
(1,2400)	1:A:331:GLY:HA2	1:A:332:LYS:HA	12	0.13
(1,2335)	1:A:327:ASP:HB3	1:A:332:LYS:H	3	0.13
(1,2206)	1:A:324:LEU:HB3	1:A:333:LEU:HG	3	0.13
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	10	0.13
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	13	0.13
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	16	0.13
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	17	0.13
(1,2128)	1:A:316:LYS:H	1:A:316:LYS:HG3	6	0.13
(1,2110)	1:A:314:ASN:HB2	1:A:317:THR:H	5	0.13
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	9	0.13
(1,195)	2:B:104:A:H62	2:B:105:U:H3	5	0.13
(1,194)	2:B:104:A:H8	2:B:105:U:H1'	2	0.13
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	1	0.13
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	5	0.13
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	16	0.13
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	17	0.13
(1,1823)	1:A:306:LYS:HD3	1:A:307:GLN:H	9	0.13
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	17	0.13
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	18	0.13
(1,1627)	1:A:303:ASP:H	1:A:311:ILE:HG13	8	0.13
(1,1627)	1:A:303:ASP:H	1:A:311:ILE:HG13	10	0.13
(1,1627)	1:A:303:ASP:H	1:A:311:ILE:HG13	11	0.13
(1,1627)	1:A:303:ASP:H	1:A:311:ILE:HG13	16	0.13
(1,1627)	1:A:303:ASP:H	1:A:311:ILE:HG13	18	0.13
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	12	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	13	0.13
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	16	0.13
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	17	0.13
(1,1404)	1:A:298:ILE:HG12	1:A:322:ILE:HB	3	0.13
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	1	0.13
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	3	0.13
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	10	0.13
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	11	0.13
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	16	0.13
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	17	0.13
(1,1336)	1:A:296:VAL:HB	1:A:333:LEU:HG	2	0.13
(1,1307)	1:A:295:ASN:HD21	1:A:359:PHE:HB3	2	0.13
(1,1307)	1:A:295:ASN:HD21	1:A:359:PHE:HB3	8	0.13
(1,1307)	1:A:295:ASN:HD21	1:A:359:PHE:HB3	14	0.13
(1,1307)	1:A:295:ASN:HD21	1:A:359:PHE:HB3	15	0.13
(1,1267)	1:A:294:GLU:HB2	1:A:295:ASN:HB3	1	0.13
(1,1267)	1:A:294:GLU:HB2	1:A:295:ASN:HB3	15	0.13
(1,1261)	1:A:294:GLU:HA	1:A:333:LEU:H	1	0.13
(1,1255)	1:A:294:GLU:H	1:A:333:LEU:HG	3	0.13
(1,1245)	1:A:294:GLU:H	1:A:294:GLU:HA	2	0.13
(1,124)	2:B:98:C:H6	2:B:97:U:H3'	2	0.13
(1,124)	2:B:98:C:H6	2:B:97:U:H3'	7	0.13
(1,124)	2:B:98:C:H6	2:B:97:U:H3'	12	0.13
(1,1131)	1:A:291:GLY:H	1:A:337:ALA:H	7	0.13
(1,1131)	1:A:291:GLY:H	1:A:337:ALA:H	11	0.13
(1,1131)	1:A:291:GLY:H	1:A:337:ALA:H	13	0.13
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	5	0.13
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	8	0.13
(1,1015)	1:A:289:VAL:HA	1:A:365:LYS:HA	18	0.13
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG11	8	0.12
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG12	8	0.12
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG13	8	0.12
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG11	8	0.12
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG12	8	0.12
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG13	8	0.12
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG11	8	0.12
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG12	8	0.12
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG13	8	0.12
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG21	8	0.12
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG22	8	0.12
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG23	8	0.12
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG21	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG22	8	0.12
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG23	8	0.12
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG21	8	0.12
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG22	8	0.12
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG23	8	0.12
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG11	8	0.12
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG12	8	0.12
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG13	8	0.12
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG21	8	0.12
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG22	8	0.12
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG23	8	0.12
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG11	8	0.12
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG12	8	0.12
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG13	8	0.12
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG21	8	0.12
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG22	8	0.12
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG23	8	0.12
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG11	8	0.12
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG12	8	0.12
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG13	8	0.12
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG21	8	0.12
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG22	8	0.12
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG23	8	0.12
(1,646)	1:A:279:GLN:HB2	1:A:345:PRO:HB3	2	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	3	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	3	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	3	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	3	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	4	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	4	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	4	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	4	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	5	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	5	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	5	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	5	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	6	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	6	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	6	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	6	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	8	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	8	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	8	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	12	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	12	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG2	12	0.12
(1,625)	1:A:278:GLU:H	1:A:278:GLU:HG3	12	0.12
(1,606)	1:A:277:SER:H	1:A:278:GLU:H	2	0.12
(1,606)	1:A:277:SER:H	1:A:278:GLU:H	8	0.12
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	12	0.12
(1,51)	2:B:94:A:H1'	2:B:94:A:H8	16	0.12
(1,488)	1:A:269:ARG:H	1:A:271:GLN:HE21	16	0.12
(1,486)	1:A:269:ARG:H	1:A:271:GLN:H	1	0.12
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	1	0.12
(1,35)	2:B:93:G:H8	2:B:92:G:H3'	11	0.12
(1,3325)	1:A:376:ASN:HB3	1:A:377:ARG:HA	2	0.12
(1,3325)	1:A:376:ASN:HB3	1:A:377:ARG:HA	6	0.12
(1,3325)	1:A:376:ASN:HB3	1:A:377:ARG:HA	11	0.12
(1,3325)	1:A:376:ASN:HB3	1:A:377:ARG:HA	13	0.12
(1,3154)	1:A:369:ALA:H	1:A:370:THR:HB	18	0.12
(1,3139)	1:A:367:SER:HB2	1:A:368:PHE:HB2	1	0.12
(1,3139)	1:A:367:SER:HB2	1:A:368:PHE:HB2	3	0.12
(1,3139)	1:A:367:SER:HB2	1:A:368:PHE:HB2	6	0.12
(1,3072)	1:A:360:SER:HB3	1:A:361:GLY:HA3	16	0.12
(1,3025)	1:A:358:GLU:HG2	1:A:359:PHE:H	1	0.12
(1,3025)	1:A:358:GLU:HG2	1:A:359:PHE:H	4	0.12
(1,3025)	1:A:358:GLU:HG2	1:A:359:PHE:H	5	0.12
(1,3025)	1:A:358:GLU:HG2	1:A:359:PHE:H	7	0.12
(1,3025)	1:A:358:GLU:HG2	1:A:359:PHE:H	16	0.12
(1,302)	2:B:118:C:H6	2:B:117:C:H3'	3	0.12
(1,302)	2:B:118:C:H6	2:B:117:C:H3'	5	0.12
(1,302)	2:B:118:C:H6	2:B:117:C:H3'	11	0.12
(1,302)	2:B:118:C:H6	2:B:117:C:H3'	13	0.12
(1,302)	2:B:118:C:H6	2:B:117:C:H3'	17	0.12
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	2	0.12
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	6	0.12
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	7	0.12
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	9	0.12
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	10	0.12
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	13	0.12
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	14	0.12
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	15	0.12
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	16	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	1	0.12
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	6	0.12
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	9	0.12
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	10	0.12
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	12	0.12
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	13	0.12
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	14	0.12
(1,2846)	1:A:353:TRP:H	1:A:353:TRP:HE3	5	0.12
(1,2846)	1:A:353:TRP:H	1:A:353:TRP:HE3	8	0.12
(1,2846)	1:A:353:TRP:H	1:A:353:TRP:HE3	13	0.12
(1,2846)	1:A:353:TRP:H	1:A:353:TRP:HE3	15	0.12
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	2	0.12
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	3	0.12
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	12	0.12
(1,276)	2:B:115:U:H6	2:B:114:C:H3'	4	0.12
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	5	0.12
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	8	0.12
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	9	0.12
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	14	0.12
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	15	0.12
(1,2747)	1:A:350:ALA:H	1:A:354:PHE:H	16	0.12
(1,2695)	1:A:348:LYS:HE2	1:A:368:PHE:HZ	2	0.12
(1,2634)	1:A:347:ALA:HA	1:A:351:ILE:HG12	14	0.12
(1,259)	2:B:113:A:H8	2:B:112:A:H3'	1	0.12
(1,259)	2:B:113:A:H8	2:B:112:A:H3'	6	0.12
(1,259)	2:B:113:A:H8	2:B:112:A:H3'	11	0.12
(1,259)	2:B:113:A:H8	2:B:112:A:H3'	12	0.12
(1,2570)	1:A:343:ASP:HB3	1:A:345:PRO:HB3	7	0.12
(1,2570)	1:A:343:ASP:HB3	1:A:345:PRO:HB3	16	0.12
(1,2558)	1:A:343:ASP:H	1:A:347:ALA:H	4	0.12
(1,2558)	1:A:343:ASP:H	1:A:347:ALA:H	5	0.12
(1,2558)	1:A:343:ASP:H	1:A:347:ALA:H	11	0.12
(1,2558)	1:A:343:ASP:H	1:A:347:ALA:H	16	0.12
(1,2553)	1:A:342:ASP:HA	1:A:343:ASP:HB2	15	0.12
(1,2513)	1:A:341:PHE:H	1:A:347:ALA:H	14	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	1	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	1	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	1	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD11	1	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD12	1	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD13	1	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	1	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	1	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	4	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	4	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	4	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD11	4	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD12	4	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD13	4	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	4	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	4	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	4	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	5	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	5	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	5	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD11	5	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD12	5	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD13	5	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	5	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	5	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	5	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	6	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	6	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	6	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD11	6	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD12	6	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD13	6	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	6	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	6	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	6	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	9	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	9	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	9	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD11	9	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD12	9	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD13	9	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	9	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	9	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	9	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	10	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	10	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	10	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD11	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD12	10	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD13	10	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	10	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	10	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	10	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	15	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	15	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	15	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD11	15	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD12	15	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD13	15	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD21	15	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD22	15	0.12
(1,2412)	1:A:333:LEU:HA	1:A:333:LEU:HD23	15	0.12
(1,2387)	1:A:330:THR:H	1:A:331:GLY:H	4	0.12
(1,2387)	1:A:330:THR:H	1:A:331:GLY:H	7	0.12
(1,2387)	1:A:330:THR:H	1:A:331:GLY:H	10	0.12
(1,2387)	1:A:330:THR:H	1:A:331:GLY:H	14	0.12
(1,2387)	1:A:330:THR:H	1:A:331:GLY:H	17	0.12
(1,2279)	1:A:326:THR:HB	1:A:333:LEU:HA	6	0.12
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	1	0.12
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	5	0.12
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	6	0.12
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	9	0.12
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	11	0.12
(1,2142)	1:A:318:GLY:H	1:A:319:GLN:HG3	13	0.12
(1,2083)	1:A:312:LYS:H	1:A:341:PHE:HB3	11	0.12
(1,207)	2:B:106:G:H1'	2:B:107:U:H5	8	0.12
(1,2007)	1:A:310:ILE:HB	1:A:343:ASP:HB2	8	0.12
(1,2007)	1:A:310:ILE:HB	1:A:343:ASP:HB2	17	0.12
(1,194)	2:B:104:A:H8	2:B:105:U:H1'	4	0.12
(1,194)	2:B:104:A:H8	2:B:105:U:H1'	8	0.12
(1,194)	2:B:104:A:H8	2:B:105:U:H1'	14	0.12
(1,1900)	1:A:308:ILE:HA	1:A:354:PHE:HZ	8	0.12
(1,187)	2:B:104:A:H8	2:B:103:A:H1'	14	0.12
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	2	0.12
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	3	0.12
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	7	0.12
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	10	0.12
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	11	0.12
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	14	0.12
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	15	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	18	0.12
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	14	0.12
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	18	0.12
(1,1823)	1:A:306:LYS:HD3	1:A:307:GLN:H	2	0.12
(1,1823)	1:A:306:LYS:HD3	1:A:307:GLN:H	3	0.12
(1,1823)	1:A:306:LYS:HD3	1:A:307:GLN:H	5	0.12
(1,1823)	1:A:306:LYS:HD3	1:A:307:GLN:H	12	0.12
(1,1823)	1:A:306:LYS:HD3	1:A:307:GLN:H	13	0.12
(1,18)	2:B:92:G:H8	2:B:91:G:H3'	13	0.12
(1,18)	2:B:92:G:H8	2:B:91:G:H3'	17	0.12
(1,1627)	1:A:303:ASP:H	1:A:311:ILE:HG13	2	0.12
(1,1627)	1:A:303:ASP:H	1:A:311:ILE:HG13	12	0.12
(1,1627)	1:A:303:ASP:H	1:A:311:ILE:HG13	13	0.12
(1,1627)	1:A:303:ASP:H	1:A:311:ILE:HG13	15	0.12
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	3	0.12
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	5	0.12
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	6	0.12
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	8	0.12
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	11	0.12
(1,1579)	1:A:302:ALA:H	1:A:305:PHE:HB2	15	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD11	10	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD12	10	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD13	10	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD11	10	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD12	10	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD13	10	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD11	10	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD12	10	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD13	10	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD21	10	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD22	10	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD23	10	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD21	10	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD22	10	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD23	10	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD21	10	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD22	10	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD23	10	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD11	10	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD12	10	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD13	10	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD21	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD22	10	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD23	10	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD11	10	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD12	10	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD13	10	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD21	10	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD22	10	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD23	10	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD11	10	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD12	10	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD13	10	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD21	10	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD22	10	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD23	10	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD11	17	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD12	17	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD13	17	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD11	17	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD12	17	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD13	17	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD11	17	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD12	17	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD13	17	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD21	17	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD22	17	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD23	17	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD21	17	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD22	17	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD23	17	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD21	17	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD22	17	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD23	17	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD11	17	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD12	17	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD13	17	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD21	17	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD22	17	0.12
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD23	17	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD11	17	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD12	17	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD13	17	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD21	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD22	17	0.12
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD23	17	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD11	17	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD12	17	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD13	17	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD21	17	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD22	17	0.12
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD23	17	0.12
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	5	0.12
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	9	0.12
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	12	0.12
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	13	0.12
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	14	0.12
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	15	0.12
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	18	0.12
(1,133)	2:B:99:C:H6	2:B:98:C:H1'	3	0.12
(1,1328)	1:A:296:VAL:HA	1:A:360:SER:HB2	3	0.12
(1,1307)	1:A:295:ASN:HD21	1:A:359:PHE:HB3	1	0.12
(1,1307)	1:A:295:ASN:HD21	1:A:359:PHE:HB3	5	0.12
(1,1307)	1:A:295:ASN:HD21	1:A:359:PHE:HB3	7	0.12
(1,1307)	1:A:295:ASN:HD21	1:A:359:PHE:HB3	11	0.12
(1,1307)	1:A:295:ASN:HD21	1:A:359:PHE:HB3	13	0.12
(1,1267)	1:A:294:GLU:HB2	1:A:295:ASN:HB3	9	0.12
(1,1267)	1:A:294:GLU:HB2	1:A:295:ASN:HB3	17	0.12
(1,1261)	1:A:294:GLU:HA	1:A:333:LEU:H	14	0.12
(1,1261)	1:A:294:GLU:HA	1:A:333:LEU:H	16	0.12
(1,1261)	1:A:294:GLU:HA	1:A:333:LEU:H	17	0.12
(1,1245)	1:A:294:GLU:H	1:A:294:GLU:HA	10	0.12
(1,124)	2:B:98:C:H6	2:B:97:U:H3'	9	0.12
(1,124)	2:B:98:C:H6	2:B:97:U:H3'	11	0.12
(1,1236)	1:A:293:GLY:H	1:A:335:GLY:HA2	2	0.12
(1,1236)	1:A:293:GLY:H	1:A:335:GLY:HA2	3	0.12
(1,1236)	1:A:293:GLY:H	1:A:335:GLY:HA2	18	0.12
(1,1231)	1:A:293:GLY:H	1:A:296:VAL:H	8	0.12
(1,1131)	1:A:291:GLY:H	1:A:337:ALA:H	3	0.12
(1,1131)	1:A:291:GLY:H	1:A:337:ALA:H	4	0.12
(1,1131)	1:A:291:GLY:H	1:A:337:ALA:H	8	0.12
(1,1131)	1:A:291:GLY:H	1:A:337:ALA:H	9	0.12
(1,1131)	1:A:291:GLY:H	1:A:337:ALA:H	16	0.12
(1,1)	2:B:91:G:H1'	2:B:91:G:H8	11	0.12
(1,951)	1:A:288:PHE:H	1:A:369:ALA:H	8	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG11	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG12	3	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG13	3	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG11	3	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG12	3	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG13	3	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG11	3	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG12	3	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG13	3	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG21	3	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG22	3	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG23	3	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG21	3	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG22	3	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG23	3	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG21	3	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG22	3	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG23	3	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG11	3	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG12	3	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG13	3	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG21	3	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG22	3	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG23	3	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG11	3	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG12	3	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG13	3	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG21	3	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG22	3	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG23	3	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG11	3	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG12	3	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG13	3	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG21	3	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG22	3	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG23	3	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG11	4	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG12	4	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG13	4	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG11	4	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG12	4	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG13	4	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG11	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG12	4	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG13	4	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG21	4	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG22	4	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG23	4	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG21	4	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG22	4	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG23	4	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG21	4	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG22	4	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG23	4	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG11	4	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG12	4	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG13	4	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG21	4	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG22	4	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG23	4	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG11	4	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG12	4	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG13	4	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG21	4	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG22	4	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG23	4	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG11	4	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG12	4	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG13	4	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG21	4	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG22	4	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG23	4	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG11	15	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG12	15	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG13	15	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG11	15	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG12	15	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG13	15	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG11	15	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG12	15	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG13	15	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG21	15	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG22	15	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG23	15	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG21	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG22	15	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG23	15	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG21	15	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG22	15	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG23	15	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG11	15	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG12	15	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG13	15	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG21	15	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG22	15	0.11
(1,899)	1:A:287:ILE:HD11	1:A:366:VAL:HG23	15	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG11	15	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG12	15	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG13	15	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG21	15	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG22	15	0.11
(1,899)	1:A:287:ILE:HD12	1:A:366:VAL:HG23	15	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG11	15	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG12	15	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG13	15	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG21	15	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG22	15	0.11
(1,899)	1:A:287:ILE:HD13	1:A:366:VAL:HG23	15	0.11
(1,752)	1:A:285:ASN:H	1:A:344:PRO:HA	4	0.11
(1,623)	1:A:278:GLU:H	1:A:278:GLU:HA	9	0.11
(1,591)	1:A:274:ARG:HB3	1:A:368:PHE:HZ	7	0.11
(1,581)	1:A:274:ARG:HA	1:A:275:HIS:HD2	5	0.11
(1,581)	1:A:274:ARG:HA	1:A:275:HIS:HD2	14	0.11
(1,488)	1:A:269:ARG:H	1:A:271:GLN:HE21	2	0.11
(1,488)	1:A:269:ARG:H	1:A:271:GLN:HE21	5	0.11
(1,488)	1:A:269:ARG:H	1:A:271:GLN:HE21	13	0.11
(1,487)	1:A:269:ARG:H	1:A:271:GLN:HB2	14	0.11
(1,356)	1:A:263:ASN:HD21	1:A:267:GLY:H	2	0.11
(1,356)	1:A:263:ASN:HD21	1:A:267:GLY:H	12	0.11
(1,356)	1:A:263:ASN:HD21	1:A:267:GLY:H	15	0.11
(1,3325)	1:A:376:ASN:HB3	1:A:377:ARG:HA	1	0.11
(1,3325)	1:A:376:ASN:HB3	1:A:377:ARG:HA	18	0.11
(1,3154)	1:A:369:ALA:H	1:A:370:THR:HB	15	0.11
(1,3139)	1:A:367:SER:HB2	1:A:368:PHE:HB2	2	0.11
(1,3072)	1:A:360:SER:HB3	1:A:361:GLY:HA3	5	0.11
(1,3072)	1:A:360:SER:HB3	1:A:361:GLY:HA3	7	0.11
(1,3025)	1:A:358:GLU:HG2	1:A:359:PHE:H	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3025)	1:A:358:GLU:HG2	1:A:359:PHE:H	8	0.11
(1,3025)	1:A:358:GLU:HG2	1:A:359:PHE:H	10	0.11
(1,3025)	1:A:358:GLU:HG2	1:A:359:PHE:H	13	0.11
(1,3025)	1:A:358:GLU:HG2	1:A:359:PHE:H	18	0.11
(1,302)	2:B:118:C:H6	2:B:117:C:H3'	1	0.11
(1,302)	2:B:118:C:H6	2:B:117:C:H3'	12	0.11
(1,302)	2:B:118:C:H6	2:B:117:C:H3'	15	0.11
(1,302)	2:B:118:C:H6	2:B:117:C:H3'	18	0.11
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	8	0.11
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	11	0.11
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	12	0.11
(1,292)	2:B:117:C:H6	2:B:116:C:H3'	17	0.11
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	17	0.11
(1,2875)	1:A:353:TRP:HZ2	1:A:357:LYS:HB2	18	0.11
(1,2851)	1:A:353:TRP:HA	1:A:353:TRP:HZ3	2	0.11
(1,2851)	1:A:353:TRP:HA	1:A:353:TRP:HZ3	5	0.11
(1,2851)	1:A:353:TRP:HA	1:A:353:TRP:HZ3	6	0.11
(1,2851)	1:A:353:TRP:HA	1:A:353:TRP:HZ3	11	0.11
(1,2851)	1:A:353:TRP:HA	1:A:353:TRP:HZ3	13	0.11
(1,2851)	1:A:353:TRP:HA	1:A:353:TRP:HZ3	14	0.11
(1,2851)	1:A:353:TRP:HA	1:A:353:TRP:HZ3	15	0.11
(1,2846)	1:A:353:TRP:H	1:A:353:TRP:HE3	1	0.11
(1,2846)	1:A:353:TRP:H	1:A:353:TRP:HE3	2	0.11
(1,2846)	1:A:353:TRP:H	1:A:353:TRP:HE3	4	0.11
(1,2846)	1:A:353:TRP:H	1:A:353:TRP:HE3	6	0.11
(1,2846)	1:A:353:TRP:H	1:A:353:TRP:HE3	7	0.11
(1,2846)	1:A:353:TRP:H	1:A:353:TRP:HE3	9	0.11
(1,2846)	1:A:353:TRP:H	1:A:353:TRP:HE3	10	0.11
(1,2846)	1:A:353:TRP:H	1:A:353:TRP:HE3	11	0.11
(1,2846)	1:A:353:TRP:H	1:A:353:TRP:HE3	12	0.11
(1,2846)	1:A:353:TRP:H	1:A:353:TRP:HE3	14	0.11
(1,2846)	1:A:353:TRP:H	1:A:353:TRP:HE3	17	0.11
(1,2846)	1:A:353:TRP:H	1:A:353:TRP:HE3	18	0.11
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	13	0.11
(1,2841)	1:A:352:ASP:HB3	1:A:353:TRP:H	17	0.11
(1,276)	2:B:115:U:H6	2:B:114:C:H3'	1	0.11
(1,276)	2:B:115:U:H6	2:B:114:C:H3'	5	0.11
(1,276)	2:B:115:U:H6	2:B:114:C:H3'	8	0.11
(1,276)	2:B:115:U:H6	2:B:114:C:H3'	11	0.11
(1,276)	2:B:115:U:H6	2:B:114:C:H3'	14	0.11
(1,2695)	1:A:348:LYS:HE2	1:A:368:PHE:HZ	10	0.11
(1,259)	2:B:113:A:H8	2:B:112:A:H3'	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,259)	2:B:113:A:H8	2:B:112:A:H3'	14	0.11
(1,2570)	1:A:343:ASP:HB3	1:A:345:PRO:HB3	1	0.11
(1,2570)	1:A:343:ASP:HB3	1:A:345:PRO:HB3	5	0.11
(1,2558)	1:A:343:ASP:H	1:A:347:ALA:H	1	0.11
(1,2558)	1:A:343:ASP:H	1:A:347:ALA:H	8	0.11
(1,2558)	1:A:343:ASP:H	1:A:347:ALA:H	14	0.11
(1,2553)	1:A:342:ASP:HA	1:A:343:ASP:HB2	4	0.11
(1,2553)	1:A:342:ASP:HA	1:A:343:ASP:HB2	14	0.11
(1,2553)	1:A:342:ASP:HA	1:A:343:ASP:HB2	17	0.11
(1,2533)	1:A:341:PHE:HB3	1:A:347:ALA:HA	4	0.11
(1,2408)	1:A:332:LYS:HB3	1:A:333:LEU:H	12	0.11
(1,2400)	1:A:331:GLY:HA2	1:A:332:LYS:HA	5	0.11
(1,2387)	1:A:330:THR:H	1:A:331:GLY:H	6	0.11
(1,2387)	1:A:330:THR:H	1:A:331:GLY:H	9	0.11
(1,2335)	1:A:327:ASP:HB3	1:A:332:LYS:H	12	0.11
(1,2279)	1:A:326:THR:HB	1:A:333:LEU:HA	4	0.11
(1,2188)	1:A:324:LEU:H	1:A:337:ALA:HA	3	0.11
(1,2174)	1:A:322:ILE:HG21	1:A:339:VAL:HG11	2	0.11
(1,2174)	1:A:322:ILE:HG21	1:A:339:VAL:HG12	2	0.11
(1,2174)	1:A:322:ILE:HG21	1:A:339:VAL:HG13	2	0.11
(1,2174)	1:A:322:ILE:HG22	1:A:339:VAL:HG11	2	0.11
(1,2174)	1:A:322:ILE:HG22	1:A:339:VAL:HG12	2	0.11
(1,2174)	1:A:322:ILE:HG22	1:A:339:VAL:HG13	2	0.11
(1,2174)	1:A:322:ILE:HG23	1:A:339:VAL:HG11	2	0.11
(1,2174)	1:A:322:ILE:HG23	1:A:339:VAL:HG12	2	0.11
(1,2174)	1:A:322:ILE:HG23	1:A:339:VAL:HG13	2	0.11
(1,2174)	1:A:322:ILE:HG21	1:A:339:VAL:HG21	2	0.11
(1,2174)	1:A:322:ILE:HG21	1:A:339:VAL:HG22	2	0.11
(1,2174)	1:A:322:ILE:HG21	1:A:339:VAL:HG23	2	0.11
(1,2174)	1:A:322:ILE:HG22	1:A:339:VAL:HG21	2	0.11
(1,2174)	1:A:322:ILE:HG22	1:A:339:VAL:HG22	2	0.11
(1,2174)	1:A:322:ILE:HG22	1:A:339:VAL:HG23	2	0.11
(1,2174)	1:A:322:ILE:HG23	1:A:339:VAL:HG21	2	0.11
(1,2174)	1:A:322:ILE:HG23	1:A:339:VAL:HG22	2	0.11
(1,2174)	1:A:322:ILE:HG23	1:A:339:VAL:HG23	2	0.11
(1,2174)	1:A:322:ILE:HG21	1:A:339:VAL:HG11	2	0.11
(1,2174)	1:A:322:ILE:HG21	1:A:339:VAL:HG12	2	0.11
(1,2174)	1:A:322:ILE:HG21	1:A:339:VAL:HG13	2	0.11
(1,2174)	1:A:322:ILE:HG21	1:A:339:VAL:HG21	2	0.11
(1,2174)	1:A:322:ILE:HG21	1:A:339:VAL:HG22	2	0.11
(1,2174)	1:A:322:ILE:HG21	1:A:339:VAL:HG23	2	0.11
(1,2174)	1:A:322:ILE:HG22	1:A:339:VAL:HG11	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2174)	1:A:322:ILE:HG22	1:A:339:VAL:HG12	2	0.11
(1,2174)	1:A:322:ILE:HG22	1:A:339:VAL:HG13	2	0.11
(1,2174)	1:A:322:ILE:HG22	1:A:339:VAL:HG21	2	0.11
(1,2174)	1:A:322:ILE:HG22	1:A:339:VAL:HG22	2	0.11
(1,2174)	1:A:322:ILE:HG22	1:A:339:VAL:HG23	2	0.11
(1,2174)	1:A:322:ILE:HG23	1:A:339:VAL:HG11	2	0.11
(1,2174)	1:A:322:ILE:HG23	1:A:339:VAL:HG12	2	0.11
(1,2174)	1:A:322:ILE:HG23	1:A:339:VAL:HG13	2	0.11
(1,2174)	1:A:322:ILE:HG23	1:A:339:VAL:HG21	2	0.11
(1,2174)	1:A:322:ILE:HG23	1:A:339:VAL:HG22	2	0.11
(1,2174)	1:A:322:ILE:HG23	1:A:339:VAL:HG23	2	0.11
(1,2142)	1:A:318:GLY:H	1:A:319:GLN:HG3	4	0.11
(1,2142)	1:A:318:GLY:H	1:A:319:GLN:HG3	7	0.11
(1,2142)	1:A:318:GLY:H	1:A:319:GLN:HG3	11	0.11
(1,2133)	1:A:316:LYS:H	1:A:318:GLY:H	5	0.11
(1,2128)	1:A:316:LYS:H	1:A:316:LYS:HG3	18	0.11
(1,2094)	1:A:312:LYS:HG3	1:A:342:ASP:HA	17	0.11
(1,2007)	1:A:310:ILE:HB	1:A:343:ASP:HB2	9	0.11
(1,195)	2:B:104:A:H62	2:B:105:U:H3	6	0.11
(1,195)	2:B:104:A:H62	2:B:105:U:H3	13	0.11
(1,194)	2:B:104:A:H8	2:B:105:U:H1'	7	0.11
(1,1859)	1:A:307:GLN:HB2	1:A:308:ILE:H	13	0.11
(1,185)	2:B:104:A:H8	2:B:104:A:H3'	11	0.11
(1,1823)	1:A:306:LYS:HD3	1:A:307:GLN:H	1	0.11
(1,1823)	1:A:306:LYS:HD3	1:A:307:GLN:H	4	0.11
(1,1823)	1:A:306:LYS:HD3	1:A:307:GLN:H	6	0.11
(1,1823)	1:A:306:LYS:HD3	1:A:307:GLN:H	7	0.11
(1,1823)	1:A:306:LYS:HD3	1:A:307:GLN:H	8	0.11
(1,1823)	1:A:306:LYS:HD3	1:A:307:GLN:H	14	0.11
(1,1823)	1:A:306:LYS:HD3	1:A:307:GLN:H	15	0.11
(1,1823)	1:A:306:LYS:HD3	1:A:307:GLN:H	16	0.11
(1,1823)	1:A:306:LYS:HD3	1:A:307:GLN:H	18	0.11
(1,18)	2:B:92:G:H8	2:B:91:G:H3'	15	0.11
(1,173)	2:B:102:A:H8	2:B:101:C:H3'	5	0.11
(1,1701)	1:A:305:PHE:H	1:A:306:LYS:HG3	13	0.11
(1,1701)	1:A:305:PHE:H	1:A:306:LYS:HG3	17	0.11
(1,1627)	1:A:303:ASP:H	1:A:311:ILE:HG13	3	0.11
(1,1627)	1:A:303:ASP:H	1:A:311:ILE:HG13	7	0.11
(1,1582)	1:A:302:ALA:H	1:A:320:PRO:HB2	2	0.11
(1,147)	2:B:100:C:H6	2:B:99:C:H3'	17	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD11	6	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD12	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD13	6	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD11	6	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD12	6	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD13	6	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD11	6	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD12	6	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD13	6	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD21	6	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD22	6	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD23	6	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD21	6	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD22	6	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD23	6	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD21	6	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD22	6	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD23	6	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD11	6	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD12	6	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD13	6	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD21	6	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD22	6	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD23	6	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD11	6	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD12	6	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD13	6	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD21	6	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD22	6	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD23	6	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD11	6	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD12	6	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD13	6	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD21	6	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD22	6	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD23	6	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD11	11	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD12	11	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD13	11	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD11	11	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD12	11	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD13	11	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD11	11	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD12	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD13	11	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD21	11	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD22	11	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD23	11	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD21	11	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD22	11	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD23	11	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD21	11	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD22	11	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD23	11	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD11	11	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD12	11	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD13	11	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD21	11	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD22	11	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD23	11	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD11	11	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD12	11	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD13	11	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD21	11	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD22	11	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD23	11	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD11	11	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD12	11	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD13	11	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD21	11	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD22	11	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD23	11	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD11	14	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD12	14	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD13	14	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD11	14	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD12	14	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD13	14	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD11	14	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD12	14	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD13	14	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD21	14	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD22	14	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD23	14	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD21	14	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD22	14	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD23	14	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD21	14	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD22	14	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD23	14	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD11	14	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD12	14	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD13	14	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD21	14	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD22	14	0.11
(1,1424)	1:A:298:ILE:HD11	1:A:324:LEU:HD23	14	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD11	14	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD12	14	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD13	14	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD21	14	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD22	14	0.11
(1,1424)	1:A:298:ILE:HD12	1:A:324:LEU:HD23	14	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD11	14	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD12	14	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD13	14	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD21	14	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD22	14	0.11
(1,1424)	1:A:298:ILE:HD13	1:A:324:LEU:HD23	14	0.11
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	2	0.11
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	4	0.11
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	6	0.11
(1,140)	2:B:100:C:H6	2:B:100:C:H1'	8	0.11
(1,135)	2:B:99:C:H6	2:B:98:C:H3'	1	0.11
(1,1307)	1:A:295:ASN:HD21	1:A:359:PHE:HB3	4	0.11
(1,128)	2:B:99:C:H6	2:B:99:C:H1'	1	0.11
(1,128)	2:B:99:C:H6	2:B:99:C:H1'	12	0.11
(1,1267)	1:A:294:GLU:HB2	1:A:295:ASN:HB3	4	0.11
(1,1267)	1:A:294:GLU:HB2	1:A:295:ASN:HB3	6	0.11
(1,1267)	1:A:294:GLU:HB2	1:A:295:ASN:HB3	14	0.11
(1,1267)	1:A:294:GLU:HB2	1:A:295:ASN:HB3	16	0.11
(1,1261)	1:A:294:GLU:HA	1:A:333:LEU:H	7	0.11
(1,1261)	1:A:294:GLU:HA	1:A:333:LEU:H	13	0.11
(1,1245)	1:A:294:GLU:H	1:A:294:GLU:HA	1	0.11
(1,1245)	1:A:294:GLU:H	1:A:294:GLU:HA	6	0.11
(1,1245)	1:A:294:GLU:H	1:A:294:GLU:HA	11	0.11
(1,1245)	1:A:294:GLU:H	1:A:294:GLU:HA	14	0.11
(1,1245)	1:A:294:GLU:H	1:A:294:GLU:HA	15	0.11
(1,1245)	1:A:294:GLU:H	1:A:294:GLU:HA	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,124)	2:B:98:C:H6	2:B:97:U:H3'	14	0.11
(1,124)	2:B:98:C:H6	2:B:97:U:H3'	16	0.11
(1,124)	2:B:98:C:H6	2:B:97:U:H3'	17	0.11
(1,1236)	1:A:293:GLY:H	1:A:335:GLY:HA2	8	0.11
(1,1231)	1:A:293:GLY:H	1:A:296:VAL:H	12	0.11
(1,1231)	1:A:293:GLY:H	1:A:296:VAL:H	18	0.11
(1,117)	2:B:98:C:H6	2:B:98:C:H1'	5	0.11
(1,1131)	1:A:291:GLY:H	1:A:337:ALA:H	1	0.11
(1,1108)	1:A:290:GLN:HE22	1:A:365:LYS:HG3	13	0.11
(1,1)	2:B:91:G:H1'	2:B:91:G:H8	10	0.11
(1,1)	2:B:91:G:H1'	2:B:91:G:H8	13	0.11

10 Dihedral-angle violation analysis (i)

Dihedral angle analysis failed due to data error in the dihedral angle restraints, possibly missing target value