



Full wwPDB NMR Structure Validation Report ⓘ

Mar 5, 2026 – 11:37 AM UTC

PDB ID : 1S40 / pdb_00001s40
Title : SOLUTION STRUCTURE OF THE CDC13 DNA-BINDING DOMAIN
COMPLEXED WITH A SINGLE-STRANDED TELOMERIC DNA 11-MER
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D.S.
Deposited on : 2004-01-14

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 ⓘ 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 ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

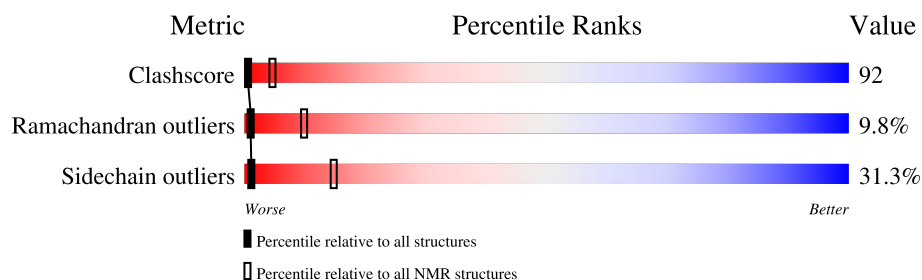
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment was not calculated.

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	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823

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 $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	B	11	100%
2	A	199	13% 53% 20% • 6% 6%

2 Ensemble composition and analysis

This entry contains 10 models. Model 3 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *closest to the average*.

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:10-A:108, A:115-A:191 (176)	1.19	3

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 and 1 single-model cluster was found.

Cluster number	Models
1	1, 2, 3, 4, 5, 7, 8
2	6, 10
Single-model clusters	9

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 3457 atoms, of which 1667 are hydrogens and 0 are deuteriums.

- Molecule 1 is a DNA chain called 5'-D(*GP*TP*GP*TP*GP*GP*GP*TP*GP*TP*G)-3'.

Mol	Chain	Residues	Atoms						Trace
1	B	11	Total	C	H	N	O	P	0
			358	110	127	43	68	10	

- Molecule 2 is a protein called Cell division control protein 13.

Mol	Chain	Residues	Atoms						Trace
2	A	187	Total	C	H	N	O	S	0
			3099	1003	1540	262	283	11	

There is a discrepancy between the modelled and reference sequences:

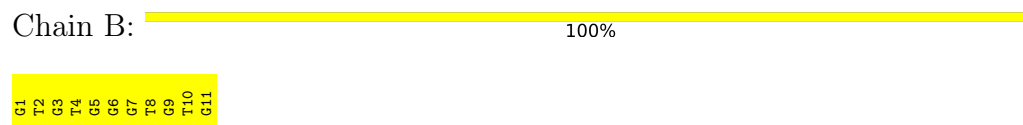
Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	cloning artifact	UNP P32797

4 Residue-property plots

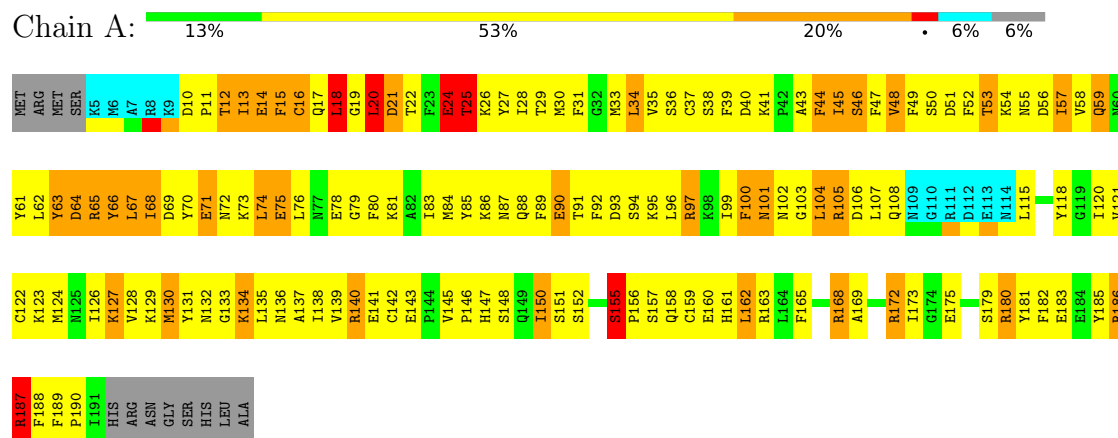
4.1 Average score per residue in the NMR ensemble

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: 5'-D(*GP*TP*GP*TP*GP*GP*GP*TP*GP*TP*G)-3'



- Molecule 2: Cell division control protein 13



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

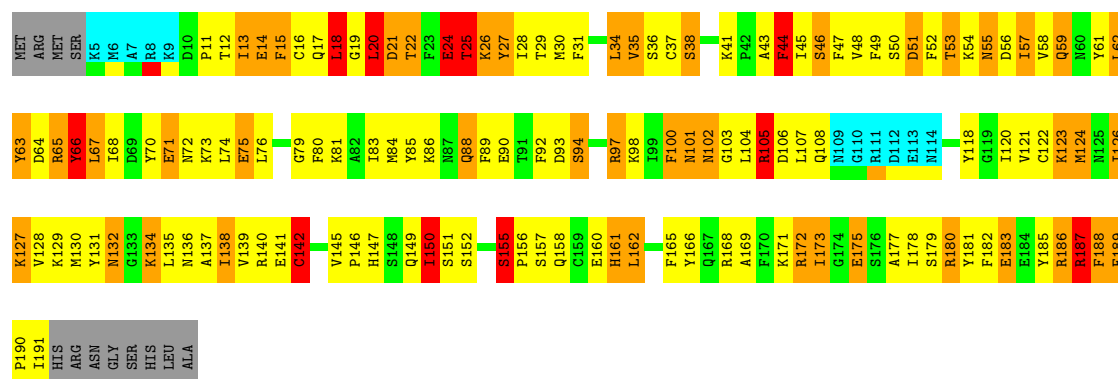
- Molecule 1: 5'-D(*GP*TP*GP*TP*GP*GP*GP*TP*GP*TP*G)-3'



G1
T2
G3
T4
G5
G6
G7
T8
G9
T10
G11

- Molecule 2: Cell division control protein 13

Chain A: 18% 42% 23% 6% 6% 6%



4.2.2 Score per residue for model 2

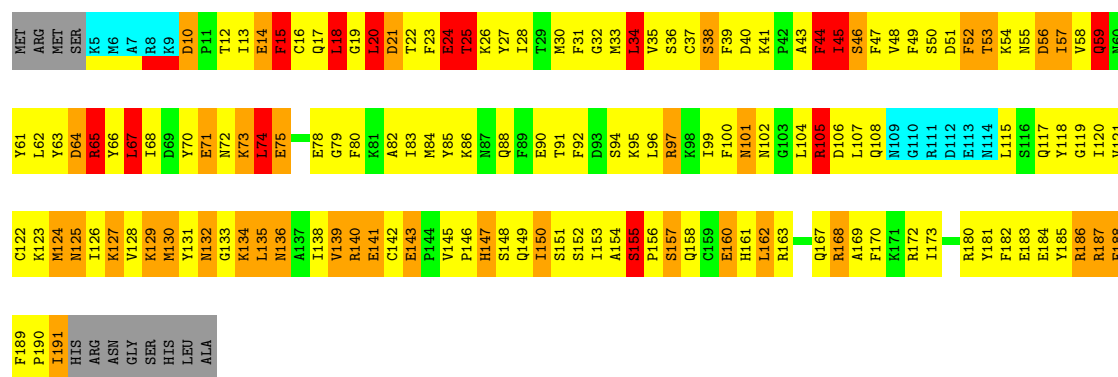
- Molecule 1: 5'-D(*GP*TP*GP*TP*GP*GP*GP*TP*GP*TP*G)-3'

Chain B: 100%

G1
T2
G3
T4
G5
G6
G7
T8
G9
T10
G11

- Molecule 2: Cell division control protein 13

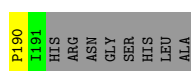
Chain A: 14% 49% 19% 7% 6% 6%



4.2.3 Score per residue for model 3 (medoid)

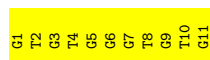
- Molecule 1: 5'-D(*GP*TP*GP*TP*GP*GP*GP*TP*GP*TP*G)-3'

Chain B: 9% 91%

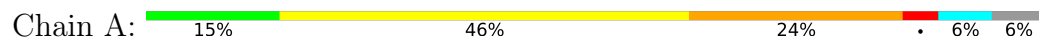


4.2.4 Score per residue for model 4

- Molecule 1: 5'-D(*GP*TP*GP*TP*GP*GP*GP*TP*GP*TP*G)-3'



- Molecule 2: Cell division control protein 13



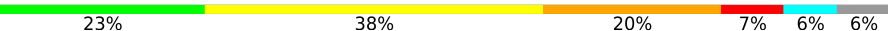
4.2.5 Score per residue for model 5

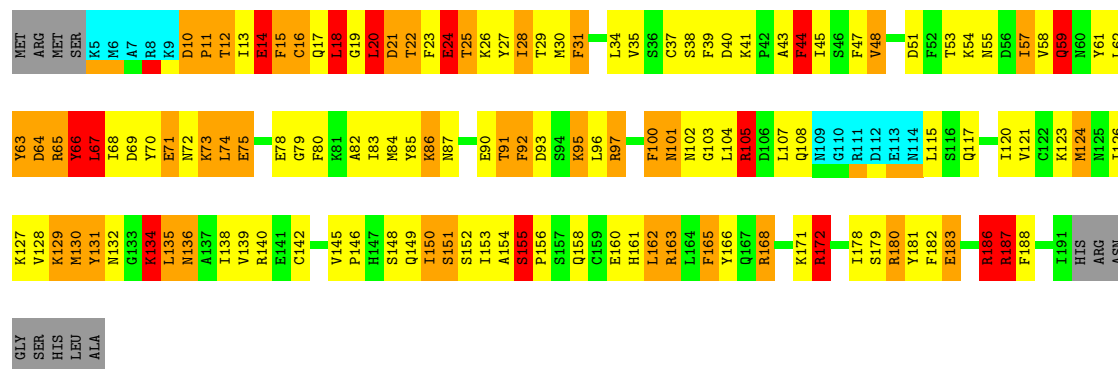
- Molecule 1: 5'-D(*GP*TP*GP*TP*GP*GP*GP*TP*GP*TP*G)-3'



G1
T2
G3
T4
G5
G6
G7
T8
G9
T10
G11

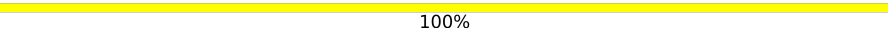
- Molecule 2: Cell division control protein 13

Chain A: 



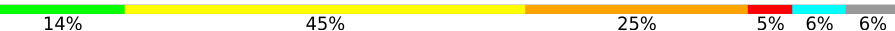
4.2.6 Score per residue for model 6

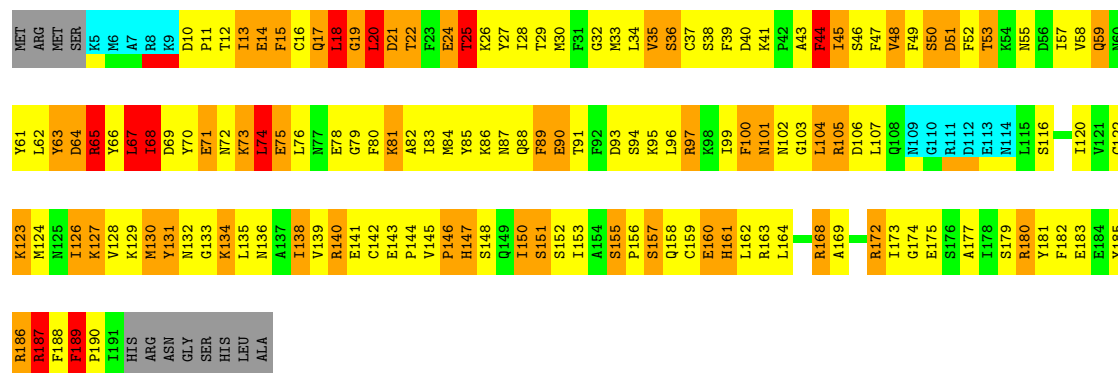
- Molecule 1: 5'-D(*GP*TP*GP*TP*GP*GP*GP*TP*GP*TP*G)-3'

Chain B: 

G1
T2
G3
T4
G5
G6
G7
T8
G9
T10
G11

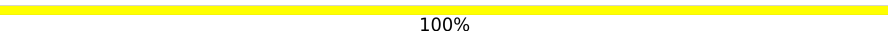
- Molecule 2: Cell division control protein 13

Chain A: 



4.2.7 Score per residue for model 7

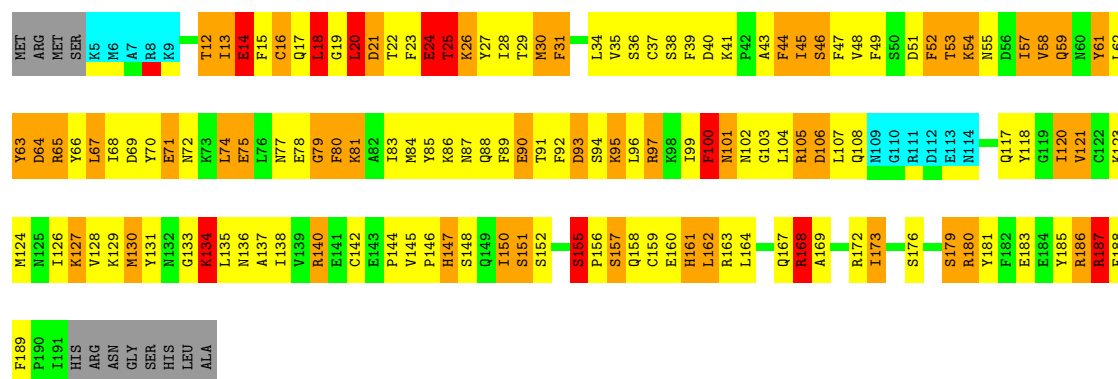
- Molecule 1: 5'-D(*GP*TP*GP*TP*GP*GP*GP*TP*GP*TP*G)-3'

Chain B: 

G1
T2
G3
T4
G5
G6
G7
T8
G9
T10
G11

- Molecule 2: Cell division control protein 13

Chain A: 18% 41% 25% 5% 6% 6%



4.2.8 Score per residue for model 8

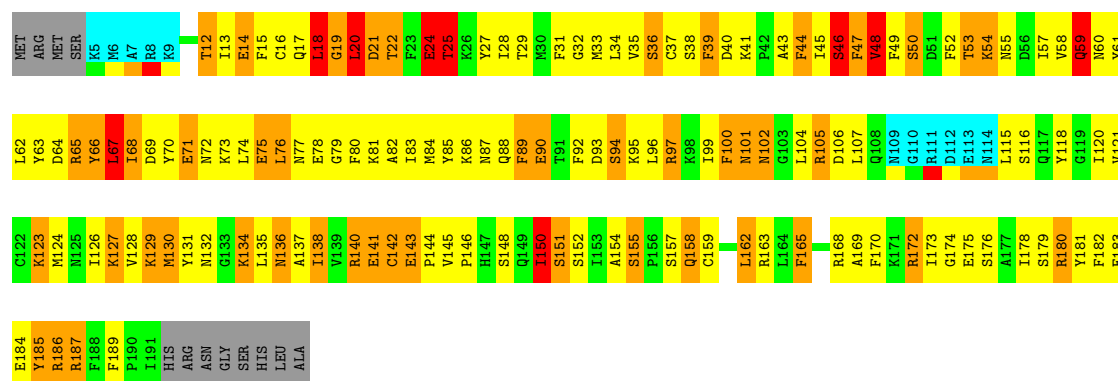
- Molecule 1: 5'-D(*GP*TP*GP*TP*GP*GP*GP*TP*GP*TP*G)-3'

Chain B: 100%

G1
T2
G3
T4
G5
G6
G7
T8
G9
T10
G11

- Molecule 2: Cell division control protein 13

Chain A: 16% 44% 24% 5% 6% 6%



4.2.9 Score per residue for model 9

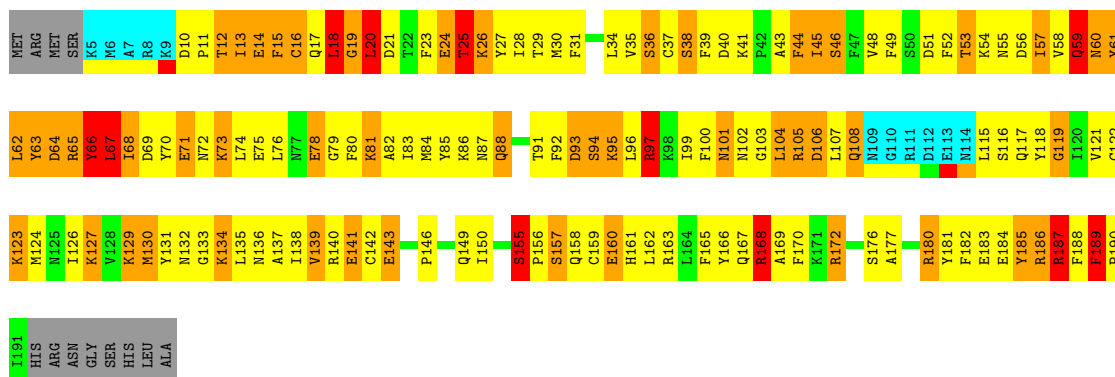
- Molecule 1: 5'-D(*GP*TP*GP*TP*GP*GP*GP*TP*GP*TP*G)-3'

Chain B: 100%

G1
T2
G3
T4
G5
G6
G7
T8
G9
T10
G11

• Molecule 2: Cell division control protein 13

Chain A: 15% 43% 25% 6% 6% 6%



4.2.10 Score per residue for model 10

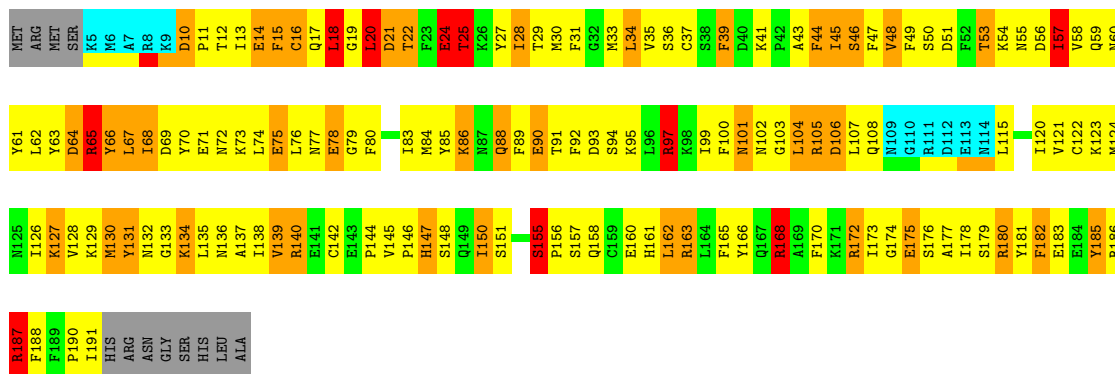
• Molecule 1: 5'-D(*GP*TP*GP*TP*GP*GP*GP*TP*GP*TP*G)-3'

Chain B: 100%

G1
T2
G3
T4
G5
G6
G7
T8
G9
T10
G11

• Molecule 2: Cell division control protein 13

Chain A: 15% 47% 21% 5% 6% 6%



5 Refinement protocol and experimental data overview

The models were refined using the following method: *distance geometry, simulated annealing, molecular dynamics, matrix relaxation, torsion angle dynamics*.

Of the 100 calculated structures, 10 were deposited, based on the following criterion: *structures with acceptable covalent geometry, structures with the lowest energy*.

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

Software name	Classification	Version
X-PLOR	structure solution	3.851
X-PLOR	refinement	3.851

No chemical shift data was provided.

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	B	0.29±0.01	0±0/259 (0.0± 0.0%)	0.61±0.02	0±0/401 (0.0± 0.0%)
2	A	1.41±0.01	0±0/1504 (0.0± 0.0%)	1.59±0.01	6±2/2021 (0.3± 0.1%)
All	All	1.30	3/17630 (0.0%)	1.47	55/24220 (0.2%)

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
2	A	0.0±0.0	9.5±0.5
All	All	0	95

All unique bond outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	A	79	GLY	N-CA	5.75	1.49	1.44	5	3

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(°)	Ideal(°)	Models	
								Worst	Total
2	A	99	ILE	N-CA-CB	-6.89	104.62	112.21	7	3
2	A	45	ILE	N-CA-CB	-6.13	104.74	112.15	4	7
2	A	101	ASN	N-CA-CB	-5.95	103.67	112.78	4	7
2	A	153	ILE	N-CA-CB	-5.86	103.87	111.90	4	2
2	A	100	PHE	N-CA-CB	-5.85	103.25	110.98	7	2
2	A	132	ASN	N-CA-CB	-5.72	105.24	113.65	3	4
2	A	48	VAL	N-CA-CB	-5.58	105.09	112.34	8	6
2	A	173	ILE	N-CA-CB	-5.57	104.78	110.62	7	2
2	A	120	ILE	N-CA-CB	-5.49	104.76	111.67	10	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	A	138	ILE	N-CA-CB	-5.46	106.12	112.34	1	2
2	A	44	PHE	CA-CB-CG	-5.46	108.34	113.80	6	1
2	A	131	TYR	N-CA-CB	-5.37	104.34	110.35	10	2
2	A	58	VAL	N-CA-CB	-5.33	103.80	110.47	7	1
2	A	134	LYS	N-CA-CB	-5.33	102.77	110.70	4	3
2	A	148	SER	N-CA-CB	-5.29	105.87	113.65	3	1
2	A	49	PHE	CA-CB-CG	-5.25	108.55	113.80	3	1
2	A	18	LEU	N-CA-CB	-5.18	101.74	110.49	10	2
2	A	80	PHE	CA-CB-CG	-5.14	108.66	113.80	7	1
2	A	150	ILE	N-CA-CB	-5.14	104.81	110.51	8	3
2	A	139	VAL	N-CA-CB	-5.14	104.96	111.64	2	2
2	A	180	ARG	N-CA-CB	-5.01	102.74	110.16	3	1

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)
2	A	105	ARG	Sidechain	10
2	A	140	ARG	Sidechain	10
2	A	168	ARG	Sidechain	10
2	A	172	ARG	Sidechain	10
2	A	187	ARG	Sidechain	10
2	A	65	ARG	Sidechain	9
2	A	97	ARG	Sidechain	9
2	A	180	ARG	Sidechain	9
2	A	186	ARG	Sidechain	9
2	A	163	ARG	Sidechain	9

6.2 Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in 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	B	231	127	127	113±12
2	A	1469	1449	1449	249±14
All	All	17000	15760	15760	2999

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 92.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:7:DG:H2''	1:B:8:DT:O5'	1.13	1.38	4	5
2:A:83:ILE:HD11	2:A:138:ILE:HG22	1.11	1.13	1	6
2:A:13:ILE:HD11	2:A:28:ILE:HD13	1.10	1.17	10	4
1:B:10:DT:H1'	1:B:11:DG:N3	1.02	1.69	2	3
2:A:49:PHE:CE1	2:A:124:MET:HE1	0.99	1.93	2	1
1:B:9:DG:H2''	1:B:10:DT:O5'	0.99	1.57	4	8
1:B:9:DG:O4'	1:B:10:DT:H71	0.99	1.56	5	4
1:B:4:DT:H4'	1:B:5:DG:O5'	0.98	1.56	4	3
2:A:61:TYR:O	2:A:76:LEU:HD13	0.96	1.61	1	1
2:A:68:ILE:HD12	2:A:177:ALA:HB1	0.95	1.34	6	4
1:B:10:DT:H2''	1:B:11:DG:O5'	0.94	1.60	2	6
1:B:9:DG:N3	1:B:10:DT:H73	0.94	1.76	2	1
1:B:4:DT:C2'	2:A:83:ILE:HD13	0.94	1.93	9	5
1:B:9:DG:O3'	1:B:10:DT:H73	0.92	1.64	9	2
1:B:4:DT:H2''	2:A:83:ILE:HD13	0.92	1.41	3	7
2:A:130:MET:HE2	2:A:134:LYS:O	0.91	1.65	3	3
2:A:57:ILE:HD13	2:A:135:LEU:HD23	0.90	1.44	5	1
1:B:7:DG:O3'	1:B:8:DT:H72	0.89	1.67	5	8
1:B:8:DT:H5''	1:B:9:DG:N7	0.89	1.83	8	3
2:A:34:LEU:HD21	2:A:37:CYS:SG	0.89	2.06	6	1
2:A:145:VAL:CG1	2:A:150:ILE:HD12	0.88	1.98	6	3
1:B:9:DG:O4'	1:B:10:DT:H72	0.88	1.68	4	2
1:B:10:DT:H2''	1:B:11:DG:O4'	0.88	1.67	4	1
1:B:7:DG:C2'	1:B:8:DT:O5'	0.87	2.23	1	9
2:A:128:VAL:HB	2:A:135:LEU:HD11	0.87	1.47	8	5
2:A:13:ILE:HD11	2:A:28:ILE:CD1	0.86	1.99	4	3
1:B:8:DT:O3'	1:B:9:DG:H3'	0.86	1.71	3	6
1:B:9:DG:O4'	1:B:10:DT:H73	0.86	1.70	3	2
1:B:2:DT:H2''	1:B:3:DG:O5'	0.86	1.68	7	3
2:A:12:THR:HG21	2:A:158:GLN:OE1	0.86	1.70	8	1
2:A:15:PHE:O	2:A:18:LEU:HD23	0.85	1.71	2	1
2:A:150:ILE:HD11	2:A:162:LEU:HD13	0.85	1.47	7	1
2:A:126:ILE:HG23	2:A:138:ILE:O	0.85	1.72	9	10
2:A:104:LEU:HD12	2:A:107:LEU:HD12	0.84	1.50	1	3
2:A:76:LEU:HD13	2:A:76:LEU:N	0.83	1.88	8	1
2:A:62:LEU:HD13	2:A:62:LEU:O	0.83	1.73	1	1
2:A:57:ILE:O	2:A:58:VAL:HG23	0.82	1.75	4	1
1:B:2:DT:H1'	1:B:3:DG:O4'	0.82	1.75	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:13:ILE:HD12	2:A:18:LEU:HA	0.81	1.51	9	5
1:B:10:DT:O3'	1:B:11:DG:H3'	0.81	1.75	10	1
1:B:1:DG:C2'	2:A:27:TYR:CZ	0.81	2.64	7	1
2:A:83:ILE:CG1	2:A:138:ILE:HG22	0.81	2.06	9	2
2:A:13:ILE:HD11	2:A:28:ILE:HD12	0.80	1.51	8	3
1:B:3:DG:C8	1:B:4:DT:H71	0.80	2.11	1	1
1:B:3:DG:C2'	1:B:4:DT:H72	0.80	2.06	7	2
2:A:126:ILE:HG21	2:A:137:ALA:HB1	0.80	1.51	7	5
1:B:9:DG:H5''	2:A:61:TYR:OH	0.79	1.77	6	5
1:B:4:DT:H1'	2:A:43:ALA:O	0.79	1.77	4	5
1:B:1:DG:H2''	2:A:27:TYR:CE2	0.79	2.13	10	6
2:A:45:ILE:HD13	2:A:89:PHE:CG	0.79	2.13	1	4
1:B:5:DG:C4	2:A:131:TYR:CD2	0.79	2.71	10	6
2:A:62:LEU:HD22	2:A:80:PHE:HA	0.79	1.52	6	2
2:A:14:GLU:HA	2:A:30:MET:HE2	0.79	1.52	10	1
1:B:11:DG:C8	2:A:70:TYR:CD2	0.78	2.71	6	3
2:A:28:ILE:HD11	2:A:128:VAL:HG11	0.78	1.54	1	2
1:B:5:DG:C8	2:A:131:TYR:CD2	0.78	2.71	7	3
2:A:13:ILE:HD12	2:A:18:LEU:HD22	0.78	1.54	2	2
2:A:130:MET:HE3	2:A:134:LYS:O	0.78	1.78	10	2
2:A:14:GLU:HG3	2:A:30:MET:HE2	0.78	1.56	7	1
1:B:3:DG:H2''	1:B:4:DT:O5'	0.77	1.78	6	2
1:B:1:DG:H2''	2:A:27:TYR:CZ	0.77	2.15	7	4
2:A:30:MET:O	2:A:124:MET:HE3	0.77	1.80	2	1
2:A:14:GLU:O	2:A:18:LEU:HD23	0.76	1.80	8	3
2:A:62:LEU:HD11	2:A:80:PHE:CA	0.76	2.10	3	1
2:A:69:ASP:OD1	2:A:177:ALA:HB2	0.76	1.79	6	1
1:B:8:DT:H3'	1:B:9:DG:N7	0.76	1.95	4	3
1:B:2:DT:H2'	1:B:3:DG:N7	0.76	1.95	1	2
2:A:62:LEU:HB2	2:A:76:LEU:HD12	0.76	1.56	8	1
1:B:8:DT:H5''	1:B:9:DG:C8	0.76	2.15	9	10
2:A:14:GLU:CG	2:A:30:MET:HE2	0.75	2.10	7	1
2:A:30:MET:CB	2:A:126:ILE:HD12	0.75	2.09	7	1
2:A:83:ILE:HD12	2:A:83:ILE:C	0.75	2.07	3	6
2:A:83:ILE:HD12	2:A:83:ILE:O	0.75	1.82	7	4
2:A:18:LEU:HD11	2:A:57:ILE:HD13	0.75	1.59	10	1
2:A:48:VAL:HG21	2:A:63:TYR:O	0.74	1.82	6	3
2:A:13:ILE:HD13	2:A:18:LEU:HD22	0.74	1.58	8	2
2:A:14:GLU:O	2:A:53:THR:HG21	0.74	1.82	2	1
2:A:83:ILE:CD1	2:A:138:ILE:HG22	0.74	2.12	5	2
1:B:8:DT:C5'	1:B:9:DG:C8	0.73	2.71	8	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:5:DG:C4	2:A:131:TYR:CE2	0.73	2.76	3	5
2:A:83:ILE:HD11	2:A:138:ILE:CG2	0.73	2.05	3	4
1:B:11:DG:C8	2:A:70:TYR:CE2	0.73	2.77	10	5
2:A:173:ILE:HG21	2:A:185:TYR:OH	0.73	1.83	10	1
1:B:8:DT:H1'	2:A:61:TYR:CG	0.73	2.18	1	10
1:B:1:DG:H2''	2:A:27:TYR:OH	0.72	1.85	2	3
1:B:3:DG:C1'	1:B:4:DT:H72	0.72	2.13	7	1
2:A:126:ILE:CG2	2:A:137:ALA:HB1	0.72	2.13	7	3
2:A:145:VAL:HG12	2:A:145:VAL:O	0.72	1.83	1	6
1:B:5:DG:H4'	1:B:6:DG:N7	0.72	1.99	5	1
1:B:8:DT:C1'	2:A:61:TYR:CD2	0.72	2.73	8	9
1:B:8:DT:H5'	2:A:63:TYR:CE1	0.72	2.19	5	6
1:B:5:DG:C8	2:A:131:TYR:CD1	0.72	2.78	5	1
2:A:13:ILE:CD1	2:A:28:ILE:HD12	0.72	2.14	8	1
1:B:5:DG:H2'	2:A:131:TYR:CE2	0.71	2.19	4	9
2:A:62:LEU:HD12	2:A:76:LEU:HA	0.71	1.61	6	2
2:A:120:ILE:HG22	2:A:120:ILE:O	0.71	1.85	2	3
1:B:8:DT:H1'	2:A:61:TYR:CD1	0.71	2.19	5	1
1:B:1:DG:H2''	2:A:27:TYR:CE1	0.71	2.20	4	1
2:A:52:PHE:O	2:A:53:THR:HG23	0.71	1.84	3	2
1:B:5:DG:P	1:B:5:DG:C8	0.71	2.84	2	1
1:B:2:DT:H71	1:B:2:DT:OP1	0.71	1.86	7	1
2:A:108:GLN:HB3	2:A:115:LEU:HD11	0.71	1.62	10	1
1:B:9:DG:N3	1:B:10:DT:H72	0.71	2.00	5	3
1:B:11:DG:C2'	2:A:70:TYR:CE2	0.70	2.74	5	6
2:A:14:GLU:HA	2:A:18:LEU:HD23	0.70	1.62	7	1
2:A:65:ARG:CD	2:A:74:LEU:HD21	0.70	2.16	1	1
1:B:7:DG:H1'	2:A:63:TYR:CE2	0.70	2.22	3	6
1:B:7:DG:C8	2:A:63:TYR:CB	0.70	2.75	7	4
1:B:5:DG:N3	2:A:131:TYR:CD2	0.70	2.60	10	5
1:B:9:DG:O4'	1:B:10:DT:H2'	0.70	1.86	9	2
1:B:3:DG:C8	1:B:4:DT:C7	0.70	2.75	8	5
2:A:48:VAL:HG21	2:A:64:ASP:HB2	0.70	1.61	9	2
1:B:4:DT:O2	2:A:43:ALA:HB1	0.70	1.85	1	1
1:B:8:DT:O5'	1:B:8:DT:C6	0.70	2.44	5	6
2:A:35:VAL:HG12	2:A:65:ARG:HB2	0.70	1.62	7	2
1:B:8:DT:H6	1:B:8:DT:O5'	0.70	1.70	5	1
1:B:10:DT:O3'	1:B:11:DG:H4'	0.70	1.86	4	2
1:B:8:DT:H5'	2:A:63:TYR:CZ	0.69	2.21	6	7
2:A:67:LEU:HD12	2:A:74:LEU:HD23	0.69	1.62	8	2
2:A:12:THR:O	2:A:13:ILE:HG23	0.69	1.87	3	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:9:DG:P	1:B:9:DG:C8	0.69	2.85	2	3
1:B:4:DT:O3'	2:A:83:ILE:HD12	0.69	1.87	6	3
1:B:7:DG:O3'	1:B:8:DT:H71	0.69	1.88	6	2
1:B:10:DT:C2	1:B:11:DG:N2	0.68	2.61	2	1
2:A:20:LEU:HD12	2:A:135:LEU:CD2	0.68	2.18	2	2
1:B:4:DT:C2'	2:A:83:ILE:HD12	0.68	2.18	6	1
1:B:2:DT:C2'	1:B:3:DG:N7	0.68	2.57	1	1
2:A:62:LEU:HD21	2:A:80:PHE:C	0.68	2.13	8	2
1:B:3:DG:H5'	2:A:138:ILE:HD13	0.68	1.64	2	1
2:A:14:GLU:CD	2:A:53:THR:HG21	0.68	2.12	3	1
1:B:8:DT:C3'	1:B:9:DG:C8	0.68	2.77	4	4
2:A:104:LEU:HA	2:A:107:LEU:HD12	0.68	1.66	9	4
2:A:135:LEU:HD13	2:A:135:LEU:C	0.68	2.14	9	4
2:A:83:ILE:HG13	2:A:138:ILE:HG22	0.68	1.63	9	2
2:A:62:LEU:HD21	2:A:80:PHE:HA	0.68	1.66	3	2
1:B:7:DG:O4'	1:B:7:DG:P	0.68	2.51	8	2
2:A:63:TYR:CD1	2:A:66:TYR:CZ	0.68	2.82	8	1
2:A:74:LEU:HD12	2:A:75:GLU:O	0.67	1.88	4	1
2:A:31:PHE:CE1	2:A:162:LEU:HD11	0.67	2.25	7	1
2:A:30:MET:HB2	2:A:126:ILE:HD12	0.67	1.65	7	1
1:B:2:DT:C2'	1:B:3:DG:C8	0.67	2.77	1	2
2:A:180:ARG:CB	2:A:181:TYR:CE1	0.67	2.77	4	6
1:B:5:DG:N3	2:A:136:ASN:HB2	0.67	2.05	10	5
1:B:8:DT:C5'	2:A:63:TYR:CE2	0.67	2.77	4	3
1:B:8:DT:C1'	2:A:61:TYR:CD1	0.67	2.77	5	1
1:B:8:DT:H1'	2:A:61:TYR:CD2	0.67	2.24	7	9
1:B:1:DG:C2'	2:A:27:TYR:CE2	0.66	2.77	7	4
2:A:58:VAL:HG21	2:A:133:GLY:O	0.66	1.91	10	1
1:B:8:DT:C5'	2:A:63:TYR:CE1	0.66	2.78	10	6
2:A:20:LEU:HD12	2:A:135:LEU:HD21	0.66	1.67	2	1
1:B:2:DT:H1'	1:B:3:DG:N7	0.66	2.05	4	2
1:B:2:DT:C2	1:B:3:DG:C6	0.66	2.84	5	1
2:A:28:ILE:HD11	2:A:128:VAL:CG1	0.66	2.21	4	3
2:A:82:ALA:HB1	2:A:139:VAL:HG13	0.66	1.67	9	1
1:B:8:DT:O3'	1:B:9:DG:C8	0.66	2.49	2	5
2:A:69:ASP:CG	2:A:177:ALA:HB2	0.66	2.15	6	1
1:B:5:DG:OP2	2:A:83:ILE:HD13	0.65	1.91	4	2
1:B:9:DG:O4'	1:B:10:DT:C6	0.65	2.50	1	3
2:A:63:TYR:CE1	2:A:66:TYR:CE2	0.65	2.83	8	2
1:B:6:DG:C8	2:A:41:LYS:CE	0.65	2.79	2	1
2:A:15:PHE:N	2:A:18:LEU:HD23	0.65	2.06	5	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:24:GLU:O	2:A:25:THR:CB	0.65	2.44	5	9
1:B:11:DG:H2'	2:A:70:TYR:CE2	0.65	2.27	8	3
2:A:92:PHE:CE1	2:A:96:LEU:HD12	0.65	2.26	9	2
1:B:11:DG:C8	2:A:70:TYR:CZ	0.65	2.85	10	4
1:B:4:DT:O4'	2:A:43:ALA:HB1	0.65	1.92	8	4
1:B:9:DG:O3'	2:A:66:TYR:CE2	0.65	2.49	4	2
1:B:9:DG:O4'	1:B:10:DT:C7	0.64	2.43	3	8
1:B:7:DG:H1'	2:A:63:TYR:CD2	0.64	2.28	7	6
1:B:9:DG:N3	1:B:10:DT:C7	0.64	2.58	2	2
2:A:27:TYR:O	2:A:28:ILE:HG23	0.64	1.92	10	3
1:B:10:DT:O5'	2:A:66:TYR:CD2	0.64	2.50	8	1
1:B:8:DT:C3'	1:B:9:DG:N7	0.64	2.60	8	2
2:A:35:VAL:HG11	2:A:65:ARG:HG3	0.64	1.70	8	1
1:B:7:DG:C3'	1:B:8:DT:C5	0.64	2.81	9	9
1:B:10:DT:H2''	1:B:11:DG:O3'	0.64	1.92	6	2
2:A:48:VAL:HG21	2:A:64:ASP:CB	0.64	2.21	9	1
1:B:8:DT:O5'	1:B:8:DT:H6	0.64	1.76	10	4
1:B:8:DT:H5'	2:A:63:TYR:CE2	0.64	2.28	8	3
2:A:57:ILE:HD12	2:A:135:LEU:HD22	0.64	1.67	10	1
1:B:7:DG:N2	2:A:41:LYS:NZ	0.64	2.46	5	1
1:B:7:DG:H3'	1:B:8:DT:C5	0.63	2.27	6	10
2:A:57:ILE:HG22	2:A:58:VAL:N	0.63	2.08	4	1
1:B:1:DG:C1'	2:A:27:TYR:CE1	0.63	2.82	1	1
1:B:10:DT:O3'	2:A:66:TYR:CD2	0.63	2.51	1	2
1:B:9:DG:C8	1:B:9:DG:O5'	0.63	2.52	10	7
2:A:67:LEU:CD1	2:A:74:LEU:HD23	0.63	2.23	4	2
2:A:49:PHE:CE1	2:A:80:PHE:CE1	0.63	2.86	2	1
2:A:80:PHE:CD1	2:A:80:PHE:N	0.63	2.67	1	9
1:B:10:DT:OP2	2:A:66:TYR:CG	0.63	2.52	8	2
2:A:10:ASP:CB	2:A:11:PRO:CD	0.63	2.77	5	1
2:A:57:ILE:HD13	2:A:135:LEU:HG	0.63	1.69	9	2
2:A:74:LEU:C	2:A:74:LEU:HD12	0.63	2.18	1	2
1:B:3:DG:H2'	1:B:4:DT:H71	0.63	1.71	1	1
1:B:8:DT:O3'	2:A:61:TYR:CZ	0.63	2.52	8	7
2:A:45:ILE:HD13	2:A:89:PHE:CD2	0.63	2.29	1	2
2:A:186:ARG:O	2:A:187:ARG:C	0.63	2.42	7	9
2:A:27:TYR:N	2:A:27:TYR:CD1	0.63	2.67	3	1
1:B:7:DG:O3'	1:B:8:DT:C7	0.62	2.46	3	10
2:A:34:LEU:HD12	2:A:49:PHE:CZ	0.62	2.28	3	1
2:A:82:ALA:HB1	2:A:139:VAL:CG2	0.62	2.24	5	1
2:A:49:PHE:CB	2:A:80:PHE:CZ	0.62	2.82	1	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:65:ARG:HD3	2:A:74:LEU:HD21	0.62	1.70	1	1
2:A:147:HIS:O	2:A:150:ILE:HG22	0.62	1.92	2	4
2:A:44:PHE:CZ	2:A:83:ILE:HG21	0.62	2.29	8	3
2:A:74:LEU:HD13	2:A:78:GLU:HB2	0.62	1.70	8	1
2:A:49:PHE:CB	2:A:80:PHE:CE1	0.62	2.82	9	5
2:A:20:LEU:HD13	2:A:21:ASP:H	0.62	1.54	3	4
1:B:10:DT:O3'	1:B:11:DG:C4'	0.62	2.47	9	2
2:A:126:ILE:CG1	2:A:139:VAL:HG22	0.62	2.24	4	1
1:B:4:DT:H2''	2:A:83:ILE:HD12	0.62	1.70	6	1
1:B:7:DG:C8	2:A:63:TYR:HB2	0.62	2.29	3	4
2:A:61:TYR:HA	2:A:76:LEU:HD21	0.62	1.72	10	1
2:A:45:ILE:CG2	2:A:47:PHE:CE2	0.62	2.81	2	4
1:B:5:DG:C2'	2:A:131:TYR:CE2	0.62	2.82	4	3
1:B:4:DT:H2''	2:A:44:PHE:CD2	0.62	2.29	6	2
1:B:7:DG:N9	1:B:7:DG:OP2	0.62	2.32	3	1
2:A:118:TYR:HB2	2:A:120:ILE:HD11	0.62	1.70	1	1
1:B:3:DG:H2'	1:B:4:DT:H73	0.62	1.72	2	1
1:B:7:DG:N9	2:A:63:TYR:CD2	0.62	2.68	7	3
1:B:5:DG:C8	2:A:131:TYR:CE2	0.62	2.87	4	4
2:A:169:ALA:HB1	2:A:173:ILE:HD11	0.62	1.70	8	2
2:A:50:SER:OG	2:A:74:LEU:HD11	0.62	1.94	10	1
2:A:28:ILE:CD1	2:A:128:VAL:HG11	0.61	2.24	1	1
2:A:83:ILE:O	2:A:139:VAL:HG23	0.61	1.95	3	3
2:A:182:PHE:CE2	2:A:183:GLU:HG2	0.61	2.30	3	1
1:B:8:DT:H2''	2:A:61:TYR:CD2	0.61	2.31	7	8
2:A:180:ARG:HB2	2:A:181:TYR:CD1	0.61	2.30	4	9
1:B:7:DG:N7	2:A:63:TYR:CB	0.61	2.63	7	2
1:B:5:DG:N9	2:A:131:TYR:CE1	0.61	2.69	5	1
1:B:9:DG:C1'	1:B:10:DT:H3'	0.61	2.25	5	4
1:B:10:DT:O3'	2:A:66:TYR:CD1	0.61	2.54	6	1
1:B:5:DG:O4'	1:B:6:DG:H5''	0.61	1.94	9	1
2:A:68:ILE:HD11	2:A:117:GLN:HG2	0.61	1.73	5	1
2:A:50:SER:CB	2:A:74:LEU:HD11	0.61	2.26	10	1
2:A:34:LEU:N	2:A:49:PHE:CD1	0.61	2.68	3	2
1:B:7:DG:C6	2:A:64:ASP:OD1	0.61	2.54	7	1
1:B:9:DG:O3'	1:B:10:DT:C7	0.61	2.47	9	2
2:A:58:VAL:O	2:A:59:GLN:C	0.61	2.44	3	8
1:B:9:DG:H2''	1:B:10:DT:H3'	0.61	1.71	2	6
1:B:10:DT:O2	1:B:11:DG:C2	0.61	2.54	5	2
1:B:11:DG:C8	2:A:70:TYR:OH	0.61	2.52	1	3
2:A:34:LEU:HD11	2:A:36:SER:O	0.61	1.95	4	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:5:DG:H3'	2:A:131:TYR:CE2	0.61	2.30	4	1
2:A:74:LEU:HD23	2:A:75:GLU:N	0.60	2.10	2	2
2:A:182:PHE:CE2	2:A:191:ILE:CD1	0.60	2.85	2	1
2:A:134:LYS:CD	2:A:134:LYS:N	0.60	2.64	5	3
2:A:57:ILE:HD13	2:A:135:LEU:HD13	0.60	1.71	3	1
1:B:3:DG:H2''	1:B:4:DT:H73	0.60	1.73	10	1
2:A:59:GLN:HG3	2:A:135:LEU:HD23	0.60	1.72	3	1
2:A:74:LEU:HD12	2:A:74:LEU:C	0.60	2.21	4	1
2:A:67:LEU:HD12	2:A:74:LEU:CG	0.60	2.26	6	1
2:A:57:ILE:HG21	2:A:135:LEU:HB2	0.60	1.72	4	4
2:A:180:ARG:HB2	2:A:181:TYR:CE1	0.60	2.32	10	9
1:B:7:DG:H2''	1:B:8:DT:H5'	0.60	1.73	10	6
1:B:5:DG:C8	1:B:5:DG:H5'	0.60	2.32	9	3
1:B:5:DG:N9	2:A:131:TYR:CE2	0.60	2.69	6	6
1:B:7:DG:C1'	2:A:63:TYR:CD2	0.60	2.84	7	4
2:A:65:ARG:C	2:A:66:TYR:CD2	0.60	2.80	2	1
1:B:7:DG:C2'	1:B:8:DT:C6	0.60	2.85	1	4
2:A:67:LEU:HD11	2:A:74:LEU:HD23	0.60	1.73	1	1
2:A:71:GLU:CG	2:A:72:ASN:N	0.60	2.65	5	6
2:A:38:SER:C	2:A:45:ILE:HG23	0.60	2.22	6	2
2:A:13:ILE:HD11	2:A:28:ILE:HG21	0.60	1.73	7	1
1:B:9:DG:P	2:A:61:TYR:OH	0.59	2.60	3	4
2:A:20:LEU:HD21	2:A:25:THR:HA	0.59	1.74	9	1
1:B:6:DG:O5'	1:B:6:DG:C8	0.59	2.55	3	1
2:A:67:LEU:HD11	2:A:74:LEU:HD12	0.59	1.74	3	1
1:B:8:DT:C5'	1:B:9:DG:N7	0.59	2.63	8	1
1:B:3:DG:C8	1:B:4:DT:H72	0.59	2.31	8	3
1:B:10:DT:H1'	1:B:11:DG:O3'	0.59	1.97	3	3
1:B:5:DG:C1'	2:A:131:TYR:CE2	0.59	2.85	7	1
1:B:10:DT:OP2	2:A:66:TYR:CE2	0.59	2.55	7	1
2:A:15:PHE:H	2:A:30:MET:HE1	0.59	1.58	9	1
1:B:8:DT:O3'	2:A:61:TYR:CE2	0.59	2.56	1	8
1:B:10:DT:OP2	2:A:66:TYR:CD2	0.59	2.55	7	5
2:A:179:SER:O	2:A:182:PHE:CE2	0.59	2.56	10	2
1:B:11:DG:OP1	2:A:66:TYR:CE1	0.59	2.56	2	2
1:B:11:DG:OP1	2:A:66:TYR:CZ	0.59	2.55	6	2
2:A:76:LEU:N	2:A:76:LEU:CD1	0.59	2.59	8	1
1:B:7:DG:C2'	1:B:8:DT:C5'	0.59	2.81	5	3
2:A:15:PHE:CE2	2:A:78:GLU:O	0.59	2.56	3	5
1:B:5:DG:OP2	2:A:44:PHE:CD2	0.59	2.55	4	1
1:B:10:DT:O3'	1:B:11:DG:C3'	0.59	2.49	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:7:DG:H3'	1:B:8:DT:C4	0.59	2.33	9	5
2:A:14:GLU:O	2:A:16:CYS:N	0.59	2.36	10	10
2:A:126:ILE:HA	2:A:138:ILE:O	0.59	1.98	10	9
2:A:12:THR:HG23	2:A:29:THR:HB	0.59	1.74	5	5
2:A:14:GLU:N	2:A:17:GLN:HB2	0.59	2.13	2	2
1:B:9:DG:O3'	2:A:66:TYR:CZ	0.59	2.56	8	1
2:A:44:PHE:CD1	2:A:44:PHE:N	0.58	2.67	1	2
2:A:89:PHE:CD1	2:A:89:PHE:C	0.58	2.81	8	2
1:B:6:DG:C8	2:A:41:LYS:HE2	0.58	2.33	2	1
1:B:8:DT:C2'	2:A:61:TYR:CD2	0.58	2.87	7	9
2:A:45:ILE:O	2:A:47:PHE:CD2	0.58	2.56	1	5
1:B:7:DG:OP2	1:B:7:DG:C4	0.58	2.56	3	2
1:B:7:DG:OP1	1:B:8:DT:C4	0.58	2.56	3	1
1:B:5:DG:C3'	2:A:131:TYR:CE2	0.58	2.86	4	1
2:A:63:TYR:CD1	2:A:66:TYR:CE2	0.58	2.91	8	2
2:A:15:PHE:CA	2:A:18:LEU:HD23	0.58	2.29	9	3
1:B:10:DT:O3'	2:A:66:TYR:CE2	0.58	2.56	1	1
2:A:131:TYR:CD1	2:A:131:TYR:C	0.58	2.79	1	3
1:B:4:DT:O3'	2:A:83:ILE:CD1	0.58	2.52	2	4
1:B:7:DG:C8	2:A:63:TYR:CG	0.58	2.91	2	4
2:A:180:ARG:HB3	2:A:181:TYR:CE1	0.58	2.32	5	3
2:A:38:SER:O	2:A:45:ILE:HG23	0.58	1.98	6	2
2:A:96:LEU:HD21	2:A:120:ILE:CG2	0.58	2.29	6	1
1:B:2:DT:C2'	1:B:3:DG:O5'	0.58	2.49	7	1
2:A:49:PHE:HB2	2:A:80:PHE:CZ	0.58	2.33	1	6
1:B:2:DT:C2'	1:B:3:DG:OP2	0.58	2.51	2	1
1:B:7:DG:H8	1:B:8:DT:O4'	0.58	1.80	5	2
2:A:26:LYS:C	2:A:27:TYR:CD1	0.58	2.81	6	4
1:B:3:DG:C2'	1:B:4:DT:C7	0.58	2.81	7	2
1:B:2:DT:OP1	1:B:2:DT:C7	0.58	2.51	7	1
2:A:180:ARG:HB2	2:A:181:TYR:CE2	0.58	2.34	9	1
1:B:4:DT:O2	2:A:43:ALA:CB	0.58	2.52	1	1
1:B:5:DG:O5'	1:B:5:DG:C8	0.58	2.56	6	1
2:A:31:PHE:CD2	2:A:162:LEU:HD11	0.58	2.33	8	1
2:A:149:GLN:CD	2:A:153:ILE:HD11	0.58	2.23	2	1
1:B:4:DT:C5'	1:B:5:DG:O5'	0.58	2.52	5	1
2:A:68:ILE:HD12	2:A:177:ALA:CB	0.58	2.22	6	1
1:B:5:DG:C8	1:B:5:DG:OP1	0.58	2.57	4	2
2:A:131:TYR:CD2	2:A:131:TYR:O	0.58	2.56	5	1
2:A:131:TYR:O	2:A:131:TYR:CG	0.58	2.56	5	1
1:B:2:DT:C4'	1:B:3:DG:OP1	0.58	2.52	6	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:27:TYR:C	2:A:28:ILE:HG23	0.58	2.24	5	8
1:B:3:DG:C2'	1:B:4:DT:OP1	0.58	2.52	5	2
2:A:27:TYR:CD1	2:A:127:LYS:CG	0.58	2.86	2	1
2:A:55:ASN:ND2	2:A:59:GLN:NE2	0.58	2.51	7	1
2:A:15:PHE:CE2	2:A:51:ASP:OD2	0.57	2.57	1	2
2:A:80:PHE:CE2	2:A:126:ILE:HD13	0.57	2.34	2	1
2:A:15:PHE:CZ	2:A:78:GLU:O	0.57	2.57	9	2
1:B:8:DT:O5'	2:A:63:TYR:CE2	0.57	2.57	4	3
2:A:105:ARG:CG	2:A:106:ASP:N	0.57	2.66	7	1
1:B:10:DT:O5'	2:A:66:TYR:CE2	0.57	2.57	8	1
2:A:15:PHE:CZ	2:A:79:GLY:O	0.57	2.57	10	1
2:A:155:SER:CB	2:A:156:PRO:CD	0.57	2.82	10	9
2:A:121:VAL:HG11	2:A:162:LEU:HD21	0.57	1.75	4	3
1:B:4:DT:O5'	1:B:4:DT:C6	0.57	2.57	10	1
1:B:8:DT:H2''	2:A:61:TYR:CE2	0.57	2.33	10	10
1:B:11:DG:N7	2:A:70:TYR:OH	0.57	2.34	10	3
1:B:8:DT:H4'	2:A:63:TYR:CE1	0.57	2.35	3	6
1:B:9:DG:OP2	2:A:61:TYR:CZ	0.57	2.56	3	2
2:A:57:ILE:HG21	2:A:135:LEU:HD22	0.57	1.75	3	1
1:B:7:DG:O6	2:A:81:LYS:CE	0.57	2.52	7	3
1:B:2:DT:H2''	1:B:3:DG:C8	0.57	2.34	1	3
1:B:9:DG:C2'	1:B:10:DT:O5'	0.57	2.48	2	7
2:A:14:GLU:HB3	2:A:53:THR:HG21	0.57	1.75	1	1
1:B:8:DT:H2''	2:A:61:TYR:CG	0.57	2.34	5	7
1:B:9:DG:N7	1:B:9:DG:OP1	0.57	2.37	2	4
1:B:11:DG:H2''	2:A:70:TYR:CE2	0.57	2.34	5	4
2:A:182:PHE:CZ	2:A:191:ILE:CD1	0.57	2.88	2	1
1:B:5:DG:O5'	2:A:44:PHE:CE2	0.57	2.57	4	1
2:A:13:ILE:CD1	2:A:18:LEU:HD22	0.57	2.28	4	1
2:A:10:ASP:N	2:A:11:PRO:CD	0.57	2.67	9	2
1:B:11:DG:H3'	1:B:11:DG:P	0.57	2.40	10	1
1:B:10:DT:P	2:A:64:ASP:HB2	0.57	2.39	1	1
2:A:127:LYS:CB	2:A:138:ILE:HD11	0.57	2.30	2	3
2:A:117:GLN:C	2:A:118:TYR:CD1	0.57	2.82	4	1
1:B:7:DG:N2	2:A:41:LYS:CE	0.57	2.67	5	1
1:B:5:DG:C5	2:A:131:TYR:CG	0.57	2.92	7	1
1:B:9:DG:O4'	1:B:10:DT:C2'	0.57	2.53	9	1
2:A:49:PHE:HB2	2:A:80:PHE:CE1	0.57	2.35	9	6
2:A:121:VAL:HG21	2:A:166:TYR:OH	0.57	1.98	9	1
2:A:37:CYS:SG	2:A:47:PHE:CE1	0.57	2.98	1	2
2:A:127:LYS:HB3	2:A:138:ILE:HD11	0.57	1.75	9	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:8:DT:H5'	2:A:63:TYR:OH	0.57	2.00	9	1
2:A:15:PHE:CE1	2:A:51:ASP:OD1	0.57	2.57	9	1
1:B:5:DG:OP2	2:A:83:ILE:CG1	0.57	2.52	4	2
2:A:52:PHE:CD1	2:A:52:PHE:C	0.57	2.81	7	3
1:B:2:DT:H5'	2:A:27:TYR:OH	0.57	2.00	8	2
2:A:30:MET:SD	2:A:80:PHE:CE1	0.57	2.98	7	1
1:B:7:DG:N3	1:B:7:DG:OP1	0.57	2.38	10	1
2:A:65:ARG:NH2	2:A:76:LEU:CD2	0.57	2.68	3	1
2:A:154:ALA:CB	2:A:158:GLN:NE2	0.57	2.67	3	1
2:A:48:VAL:HG11	2:A:62:LEU:O	0.57	2.00	6	1
2:A:27:TYR:CZ	2:A:127:LYS:CD	0.57	2.88	3	1
2:A:39:PHE:CD1	2:A:40:ASP:N	0.57	2.73	4	1
2:A:35:VAL:HG12	2:A:65:ARG:CB	0.57	2.30	7	1
1:B:3:DG:OP2	2:A:138:ILE:HG21	0.56	2.00	1	1
2:A:44:PHE:CD1	2:A:44:PHE:C	0.56	2.83	9	8
2:A:74:LEU:HD23	2:A:75:GLU:H	0.56	1.59	2	1
2:A:127:LYS:HB2	2:A:138:ILE:HD11	0.56	1.77	5	2
2:A:182:PHE:O	2:A:191:ILE:HD11	0.56	1.99	4	1
2:A:45:ILE:HD13	2:A:89:PHE:CB	0.56	2.30	1	1
2:A:126:ILE:CG2	2:A:138:ILE:O	0.56	2.53	4	7
2:A:14:GLU:C	2:A:18:LEU:HD23	0.56	2.26	4	1
1:B:2:DT:H71	2:A:127:LYS:NZ	0.56	2.16	6	1
2:A:49:PHE:CE1	2:A:80:PHE:CZ	0.56	2.93	2	1
2:A:72:ASN:O	2:A:73:LYS:C	0.56	2.48	9	3
2:A:14:GLU:HA	2:A:30:MET:HE1	0.56	1.75	5	1
2:A:39:PHE:C	2:A:39:PHE:CD1	0.56	2.82	10	2
2:A:182:PHE:CD2	2:A:183:GLU:N	0.56	2.73	1	3
1:B:7:DG:N7	2:A:63:TYR:HB2	0.56	2.15	3	4
1:B:10:DT:C2'	1:B:11:DG:O5'	0.56	2.54	8	3
2:A:25:THR:OG1	2:A:129:LYS:CB	0.56	2.53	2	1
2:A:15:PHE:CZ	2:A:51:ASP:OD2	0.56	2.59	1	2
2:A:15:PHE:CD2	2:A:53:THR:OG1	0.56	2.56	3	3
2:A:29:THR:HG22	2:A:31:PHE:CE1	0.56	2.35	1	2
2:A:35:VAL:HG11	2:A:65:ARG:HE	0.56	1.60	1	1
1:B:10:DT:O2	1:B:11:DG:N3	0.56	2.39	2	1
2:A:66:TYR:CD1	2:A:66:TYR:N	0.56	2.74	9	3
2:A:45:ILE:HG22	2:A:47:PHE:CE2	0.56	2.35	2	2
2:A:123:LYS:C	2:A:124:MET:CG	0.56	2.78	4	6
2:A:165:PHE:CD1	2:A:165:PHE:C	0.56	2.83	3	5
2:A:104:LEU:HG	2:A:115:LEU:HD11	0.56	1.76	4	1
1:B:11:DG:H2'	2:A:70:TYR:CE1	0.56	2.36	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:10:DT:P	2:A:66:TYR:CE2	0.56	2.99	8	1
2:A:85:TYR:CD1	2:A:87:ASN:ND2	0.56	2.74	9	1
2:A:31:PHE:N	2:A:31:PHE:CD1	0.56	2.74	9	2
1:B:10:DT:C2'	1:B:11:DG:O3'	0.56	2.54	10	2
2:A:27:TYR:CD1	2:A:127:LYS:HD2	0.56	2.36	5	1
1:B:9:DG:C3'	2:A:61:TYR:OH	0.56	2.54	7	1
1:B:5:DG:H2'	2:A:131:TYR:CD2	0.55	2.36	3	6
1:B:7:DG:H2''	1:B:8:DT:C5'	0.55	2.30	7	6
2:A:27:TYR:CZ	2:A:127:LYS:HD2	0.55	2.36	3	1
2:A:67:LEU:HD12	2:A:74:LEU:HD12	0.55	1.76	5	2
1:B:2:DT:H2'	1:B:3:DG:C8	0.55	2.35	7	1
2:A:189:PHE:CB	2:A:190:PRO:CD	0.55	2.84	9	1
2:A:186:ARG:O	2:A:188:PHE:N	0.55	2.40	4	7
1:B:10:DT:C1'	1:B:11:DG:O3'	0.55	2.55	8	3
2:A:164:LEU:HD23	2:A:167:GLN:OE1	0.55	2.01	7	1
2:A:154:ALA:HB3	2:A:159:CYS:SG	0.55	2.41	8	1
2:A:21:ASP:CB	2:A:24:GLU:CD	0.55	2.80	4	2
2:A:167:GLN:CG	2:A:168:ARG:N	0.55	2.69	7	1
2:A:65:ARG:O	2:A:66:TYR:C	0.55	2.47	1	5
2:A:35:VAL:HG23	2:A:49:PHE:HA	0.55	1.78	2	1
2:A:14:GLU:OE1	2:A:161:HIS:CE1	0.55	2.59	5	1
1:B:3:DG:H1'	1:B:4:DT:H72	0.55	1.75	7	1
1:B:8:DT:H1'	2:A:61:TYR:CB	0.55	2.32	3	9
2:A:118:TYR:CB	2:A:120:ILE:HD11	0.55	2.31	1	1
2:A:80:PHE:CE2	2:A:82:ALA:HB2	0.55	2.37	2	1
2:A:135:LEU:C	2:A:135:LEU:CD1	0.55	2.80	9	4
1:B:4:DT:O5'	1:B:5:DG:OP1	0.55	2.25	3	1
1:B:6:DG:H2'	1:B:7:DG:N2	0.55	2.17	5	1
1:B:4:DT:O2	2:A:43:ALA:CA	0.55	2.55	1	1
2:A:108:GLN:HB3	2:A:115:LEU:HD21	0.55	1.77	2	1
2:A:31:PHE:CZ	2:A:123:LYS:HB3	0.55	2.36	4	3
2:A:129:LYS:CG	2:A:130:MET:N	0.55	2.69	7	3
2:A:91:THR:O	2:A:95:LYS:CE	0.55	2.54	5	2
1:B:9:DG:H5''	2:A:61:TYR:HH	0.55	1.61	5	2
2:A:22:THR:HG22	2:A:23:PHE:N	0.55	2.17	4	3
1:B:2:DT:C2	1:B:3:DG:C2	0.55	2.95	7	1
2:A:127:LYS:CB	2:A:138:ILE:CG1	0.55	2.84	10	2
2:A:37:CYS:HB3	2:A:47:PHE:CE1	0.55	2.37	2	3
2:A:127:LYS:HG2	2:A:138:ILE:HD11	0.55	1.78	3	2
1:B:3:DG:P	1:B:3:DG:H3'	0.55	2.42	1	1
1:B:5:DG:O6	2:A:135:LEU:O	0.55	2.25	4	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:74:LEU:CD1	2:A:75:GLU:O	0.55	2.55	4	2
2:A:10:ASP:HB3	2:A:11:PRO:CD	0.55	2.32	5	1
2:A:118:TYR:O	2:A:118:TYR:CD1	0.55	2.59	8	2
2:A:84:MET:O	2:A:85:TYR:C	0.55	2.49	3	10
2:A:62:LEU:HD11	2:A:79:GLY:O	0.55	2.02	8	3
1:B:1:DG:C4'	2:A:27:TYR:CE1	0.55	2.90	3	1
1:B:9:DG:C8	1:B:9:DG:P	0.55	3.00	4	3
2:A:27:TYR:O	2:A:28:ILE:CG2	0.54	2.55	2	5
1:B:5:DG:N9	2:A:131:TYR:CD2	0.54	2.75	7	6
1:B:2:DT:C6	1:B:3:DG:C6	0.54	2.95	7	1
2:A:18:LEU:CD1	2:A:57:ILE:HD12	0.54	2.32	7	1
2:A:21:ASP:CB	2:A:24:GLU:HB2	0.54	2.33	10	8
1:B:8:DT:H2''	2:A:61:TYR:CD1	0.54	2.37	5	8
1:B:10:DT:C3'	2:A:66:TYR:CD2	0.54	2.91	3	1
2:A:32:GLY:CA	2:A:50:SER:O	0.54	2.55	6	2
1:B:5:DG:C1'	2:A:131:TYR:CE1	0.54	2.90	5	1
2:A:44:PHE:CD2	2:A:83:ILE:HB	0.54	2.37	5	2
2:A:44:PHE:CE1	2:A:83:ILE:CG2	0.54	2.91	6	1
2:A:60:ASN:O	2:A:76:LEU:CD2	0.54	2.55	10	1
2:A:15:PHE:CD1	2:A:15:PHE:N	0.54	2.72	1	2
2:A:66:TYR:O	2:A:67:LEU:C	0.54	2.49	8	3
1:B:5:DG:C1'	2:A:131:TYR:CD2	0.54	2.91	2	5
1:B:7:DG:O6	2:A:81:LYS:CD	0.54	2.55	3	1
2:A:62:LEU:HD11	2:A:80:PHE:HA	0.54	1.76	3	1
1:B:11:DG:C8	2:A:70:TYR:CE1	0.54	2.95	7	1
1:B:9:DG:C2'	1:B:10:DT:H3'	0.54	2.32	2	5
2:A:68:ILE:O	2:A:70:TYR:CD1	0.54	2.61	7	3
2:A:150:ILE:HD12	2:A:162:LEU:HD13	0.54	1.79	3	1
2:A:92:PHE:CD1	2:A:92:PHE:C	0.54	2.85	5	3
2:A:160:GLU:O	2:A:164:LEU:HD12	0.54	2.02	6	1
2:A:83:ILE:O	2:A:83:ILE:CD1	0.54	2.55	7	1
1:B:1:DG:O4'	2:A:27:TYR:OH	0.54	2.25	1	1
2:A:58:VAL:C	2:A:59:GLN:CG	0.54	2.81	6	2
2:A:155:SER:CB	2:A:156:PRO:HD2	0.54	2.33	2	6
2:A:92:PHE:CZ	2:A:96:LEU:HD12	0.54	2.38	7	2
1:B:7:DG:C6	2:A:81:LYS:HE2	0.54	2.38	9	1
2:A:92:PHE:CD1	2:A:142:CYS:SG	0.54	2.99	1	1
2:A:127:LYS:HB3	2:A:138:ILE:CG1	0.54	2.32	9	3
1:B:9:DG:C5'	1:B:10:DT:H71	0.54	2.32	1	1
2:A:65:ARG:CG	2:A:74:LEU:HD21	0.54	2.31	1	1
1:B:7:DG:C2'	1:B:8:DT:H5'	0.54	2.32	10	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:91:THR:O	2:A:95:LYS:CG	0.54	2.56	7	4
2:A:15:PHE:CZ	2:A:55:ASN:ND2	0.54	2.75	4	1
2:A:45:ILE:HG13	2:A:89:PHE:CG	0.54	2.38	4	2
1:B:6:DG:O6	2:A:43:ALA:CB	0.54	2.55	5	1
1:B:3:DG:C1'	1:B:4:DT:C7	0.54	2.86	7	1
1:B:7:DG:OP1	1:B:7:DG:C8	0.54	2.60	8	1
2:A:147:HIS:NE2	2:A:163:ARG:NH1	0.54	2.55	10	1
1:B:5:DG:C4'	1:B:6:DG:O5'	0.54	2.55	1	3
1:B:5:DG:OP2	2:A:83:ILE:CD1	0.54	2.56	4	2
2:A:20:LEU:CD1	2:A:135:LEU:HD21	0.54	2.33	2	1
2:A:62:LEU:O	2:A:64:ASP:N	0.54	2.41	4	1
2:A:63:TYR:O	2:A:76:LEU:HD22	0.54	2.02	1	1
1:B:5:DG:N3	2:A:131:TYR:CG	0.54	2.75	2	1
2:A:37:CYS:SG	2:A:45:ILE:CG2	0.54	2.96	3	3
2:A:129:LYS:HG2	2:A:130:MET:N	0.54	2.18	4	3
2:A:183:GLU:O	2:A:186:ARG:CG	0.54	2.56	10	5
2:A:45:ILE:HD11	2:A:89:PHE:CD2	0.54	2.38	7	1
1:B:10:DT:OP1	1:B:10:DT:H72	0.54	2.01	9	2
2:A:76:LEU:N	2:A:76:LEU:HD23	0.54	2.18	1	3
2:A:162:LEU:O	2:A:166:TYR:CD2	0.54	2.61	5	2
2:A:15:PHE:CE2	2:A:79:GLY:O	0.54	2.61	10	2
1:B:8:DT:C5'	2:A:63:TYR:CZ	0.54	2.91	6	2
2:A:47:PHE:CD2	2:A:84:MET:HE3	0.54	2.38	6	1
2:A:24:GLU:O	2:A:25:THR:OG1	0.53	2.26	2	9
2:A:72:ASN:OD1	2:A:73:LYS:N	0.53	2.41	1	2
2:A:86:LYS:O	2:A:90:GLU:CG	0.53	2.56	3	8
1:B:10:DT:C1'	1:B:11:DG:N3	0.53	2.60	2	2
2:A:21:ASP:CB	2:A:24:GLU:OE1	0.53	2.56	3	1
2:A:119:GLY:O	2:A:121:VAL:N	0.53	2.41	3	1
2:A:33:MET:O	2:A:50:SER:N	0.53	2.42	4	1
2:A:27:TYR:CD1	2:A:127:LYS:CD	0.53	2.91	5	1
2:A:127:LYS:HE2	2:A:138:ILE:HD12	0.53	1.78	8	1
2:A:141:GLU:O	2:A:142:CYS:C	0.53	2.52	9	1
1:B:11:DG:H3'	2:A:70:TYR:CE2	0.53	2.39	3	2
2:A:69:ASP:O	2:A:71:GLU:N	0.53	2.37	5	1
2:A:63:TYR:O	2:A:64:ASP:CB	0.53	2.56	6	1
1:B:3:DG:H2'	1:B:4:DT:C7	0.53	2.33	7	4
2:A:31:PHE:CZ	2:A:123:LYS:HG3	0.53	2.38	1	1
2:A:181:TYR:CD1	2:A:181:TYR:N	0.53	2.77	5	9
2:A:35:VAL:HG11	2:A:64:ASP:OD1	0.53	2.04	4	1
2:A:13:ILE:CG2	2:A:17:GLN:O	0.53	2.57	8	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:160:GLU:CG	2:A:161:HIS:N	0.53	2.71	5	8
2:A:49:PHE:CE1	2:A:122:CYS:SG	0.53	3.02	3	1
2:A:68:ILE:O	2:A:69:ASP:C	0.53	2.52	8	5
2:A:182:PHE:CE2	2:A:183:GLU:CG	0.53	2.91	3	1
2:A:47:PHE:O	2:A:82:ALA:HB3	0.53	2.03	6	1
1:B:6:DG:C8	1:B:7:DG:C5	0.53	2.96	9	1
2:A:34:LEU:CD1	2:A:36:SER:O	0.53	2.56	1	2
2:A:43:ALA:O	2:A:44:PHE:CB	0.53	2.57	4	7
2:A:100:PHE:O	2:A:102:ASN:ND2	0.53	2.42	1	3
1:B:9:DG:H2''	1:B:10:DT:C5'	0.53	2.32	4	1
2:A:92:PHE:CD1	2:A:93:ASP:N	0.53	2.77	7	1
2:A:58:VAL:CG2	2:A:133:GLY:O	0.53	2.56	10	1
2:A:97:ARG:O	2:A:101:ASN:N	0.53	2.42	4	7
2:A:154:ALA:HB1	2:A:158:GLN:OE1	0.53	2.04	2	1
1:B:5:DG:H4'	1:B:6:DG:C8	0.53	2.38	5	1
2:A:105:ARG:HG3	2:A:106:ASP:N	0.53	2.18	7	1
2:A:169:ALA:HB1	2:A:173:ILE:CD1	0.53	2.33	8	1
1:B:1:DG:O5'	1:B:2:DT:C7	0.53	2.56	9	1
1:B:9:DG:P	1:B:9:DG:H3'	0.53	2.44	9	1
2:A:130:MET:CE	2:A:134:LYS:O	0.53	2.52	3	3
2:A:147:HIS:O	2:A:148:SER:CB	0.53	2.56	3	2
1:B:10:DT:C2'	1:B:11:DG:OP2	0.53	2.56	4	2
2:A:30:MET:SD	2:A:80:PHE:CE2	0.53	3.01	4	1
2:A:48:VAL:HG11	2:A:64:ASP:OD2	0.53	2.03	4	1
2:A:121:VAL:HG11	2:A:166:TYR:OH	0.53	2.04	5	1
2:A:39:PHE:CE1	2:A:45:ILE:CG1	0.53	2.91	8	1
1:B:2:DT:H2''	1:B:3:DG:C5'	0.53	2.34	9	1
2:A:85:TYR:CG	2:A:87:ASN:ND2	0.53	2.77	9	1
2:A:92:PHE:CE1	2:A:96:LEU:CD1	0.53	2.91	9	1
2:A:61:TYR:CD2	2:A:63:TYR:HA	0.53	2.39	1	1
1:B:8:DT:H2''	2:A:61:TYR:CZ	0.53	2.39	1	10
2:A:131:TYR:O	2:A:132:ASN:CB	0.53	2.57	10	7
2:A:49:PHE:CE1	2:A:124:MET:CE	0.53	2.82	2	1
2:A:74:LEU:HD21	2:A:78:GLU:OE1	0.53	2.04	2	2
2:A:83:ILE:C	2:A:83:ILE:CD1	0.53	2.80	3	2
2:A:31:PHE:CZ	2:A:123:LYS:HB2	0.53	2.38	5	2
1:B:10:DT:O3'	2:A:66:TYR:CE1	0.53	2.62	6	1
1:B:10:DT:P	2:A:66:TYR:CD2	0.53	3.02	8	1
1:B:11:DG:H2'	2:A:70:TYR:CD2	0.53	2.38	10	2
2:A:64:ASP:O	2:A:65:ARG:C	0.53	2.52	1	1
2:A:156:PRO:O	2:A:157:SER:CB	0.53	2.56	7	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:55:ASN:OD1	2:A:57:ILE:N	0.53	2.42	2	1
2:A:189:PHE:CG	2:A:190:PRO:HD2	0.53	2.39	6	3
1:B:9:DG:H3'	1:B:9:DG:P	0.53	2.44	10	3
2:A:13:ILE:O	2:A:14:GLU:CB	0.53	2.55	7	1
2:A:188:PHE:CD1	2:A:188:PHE:C	0.53	2.84	7	1
2:A:34:LEU:HD12	2:A:35:VAL:N	0.52	2.20	1	2
2:A:130:MET:HA	2:A:134:LYS:O	0.52	2.04	4	10
1:B:6:DG:N9	1:B:6:DG:OP1	0.52	2.42	6	1
2:A:24:GLU:OE2	2:A:26:LYS:NZ	0.52	2.42	6	1
1:B:3:DG:N9	1:B:4:DT:H72	0.52	2.19	8	1
1:B:2:DT:C6	1:B:3:DG:N7	0.52	2.77	10	1
2:A:12:THR:O	2:A:13:ILE:CG2	0.52	2.56	3	3
2:A:118:TYR:CE1	2:A:184:GLU:O	0.52	2.63	2	1
1:B:5:DG:OP1	1:B:6:DG:O6	0.52	2.27	3	1
2:A:57:ILE:O	2:A:58:VAL:CG2	0.52	2.53	4	1
2:A:100:PHE:CZ	2:A:118:TYR:CD2	0.52	2.97	9	1
2:A:180:ARG:HB2	2:A:181:TYR:CD2	0.52	2.39	9	1
2:A:43:ALA:C	2:A:44:PHE:CG	0.52	2.85	4	5
2:A:31:PHE:CE2	2:A:123:LYS:HD2	0.52	2.39	10	2
1:B:2:DT:C5	1:B:3:DG:N1	0.52	2.77	7	1
2:A:63:TYR:O	2:A:64:ASP:CG	0.52	2.53	4	2
1:B:5:DG:O5'	2:A:136:ASN:ND2	0.52	2.43	6	2
2:A:134:LYS:HD3	2:A:134:LYS:N	0.52	2.20	7	1
2:A:45:ILE:O	2:A:46:SER:C	0.52	2.53	1	6
1:B:7:DG:C8	2:A:63:TYR:CD2	0.52	2.98	6	3
2:A:62:LEU:HD11	2:A:80:PHE:N	0.52	2.19	3	1
2:A:65:ARG:NE	2:A:74:LEU:O	0.52	2.43	5	1
1:B:4:DT:C2'	2:A:44:PHE:CD2	0.52	2.93	6	1
2:A:58:VAL:CB	2:A:133:GLY:O	0.52	2.58	10	1
1:B:5:DG:P	2:A:83:ILE:HG12	0.52	2.45	1	2
1:B:2:DT:H71	2:A:127:LYS:HE2	0.52	1.80	2	1
1:B:10:DT:H3'	2:A:66:TYR:CD2	0.52	2.40	3	1
1:B:11:DG:N9	2:A:70:TYR:CE2	0.52	2.78	6	2
2:A:133:GLY:C	2:A:134:LYS:CD	0.52	2.82	4	1
2:A:57:ILE:CD1	2:A:135:LEU:HD23	0.52	2.27	5	1
2:A:15:PHE:CZ	2:A:51:ASP:CG	0.52	2.88	6	1
2:A:139:VAL:HG12	2:A:141:GLU:O	0.52	2.04	1	3
2:A:145:VAL:HG13	2:A:150:ILE:HD12	0.52	1.77	6	1
2:A:14:GLU:HA	2:A:18:LEU:CD2	0.52	2.32	7	1
2:A:131:TYR:O	2:A:131:TYR:CD1	0.52	2.63	7	1
2:A:49:PHE:HB3	2:A:80:PHE:CE1	0.52	2.40	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:60:ASN:OD1	2:A:134:LYS:CG	0.52	2.58	9	1
2:A:87:ASN:OD1	2:A:88:GLN:N	0.52	2.42	9	1
1:B:5:DG:OP2	2:A:136:ASN:OD1	0.52	2.28	10	2
2:A:61:TYR:O	2:A:63:TYR:N	0.52	2.41	10	2
2:A:131:TYR:N	2:A:134:LYS:O	0.52	2.43	4	2
2:A:37:CYS:HB2	2:A:104:LEU:HD23	0.52	1.81	7	1
2:A:17:GLN:O	2:A:18:LEU:O	0.52	2.27	2	9
1:B:5:DG:C2	2:A:129:LYS:HE3	0.52	2.40	2	2
2:A:73:LYS:O	2:A:74:LEU:C	0.52	2.52	2	5
1:B:11:DG:N2	2:A:70:TYR:O	0.52	2.43	5	1
1:B:10:DT:H5'	1:B:10:DT:C6	0.52	2.40	8	2
2:A:62:LEU:HD21	2:A:80:PHE:CA	0.52	2.35	1	2
2:A:65:ARG:O	2:A:67:LEU:N	0.52	2.43	5	3
2:A:63:TYR:O	2:A:64:ASP:C	0.52	2.52	8	4
2:A:38:SER:O	2:A:45:ILE:CG2	0.52	2.58	6	2
1:B:1:DG:H2'	2:A:27:TYR:CZ	0.52	2.39	7	1
2:A:45:ILE:CD1	2:A:89:PHE:CD2	0.52	2.93	7	1
2:A:129:LYS:CE	2:A:136:ASN:OD1	0.52	2.57	8	1
1:B:6:DG:H1'	1:B:7:DG:O5'	0.51	2.06	1	1
2:A:126:ILE:CG1	2:A:138:ILE:O	0.51	2.58	4	3
2:A:100:PHE:CD1	2:A:107:LEU:HD21	0.51	2.40	7	2
2:A:187:ARG:HD3	2:A:188:PHE:CE2	0.51	2.40	2	1
1:B:3:DG:C1'	1:B:4:DT:OP1	0.51	2.58	6	1
2:A:31:PHE:CD2	2:A:123:LYS:HB3	0.51	2.41	9	1
1:B:9:DG:OP2	2:A:61:TYR:OH	0.51	2.28	9	5
2:A:62:LEU:N	2:A:62:LEU:HD23	0.51	2.20	4	2
1:B:9:DG:O5'	2:A:61:TYR:OH	0.51	2.27	3	1
1:B:8:DT:C2'	2:A:61:TYR:CD1	0.51	2.93	5	1
2:A:67:LEU:CD1	2:A:74:LEU:HD12	0.51	2.35	5	2
2:A:157:SER:OG	2:A:158:GLN:N	0.51	2.43	9	3
1:B:1:DG:O4'	2:A:27:TYR:CE1	0.51	2.62	1	2
1:B:8:DT:H2''	2:A:61:TYR:CE1	0.51	2.40	1	7
2:A:67:LEU:O	2:A:68:ILE:C	0.51	2.53	6	4
1:B:10:DT:O4'	1:B:11:DG:O3'	0.51	2.28	8	1
2:A:76:LEU:H	2:A:76:LEU:HD22	0.51	1.65	8	1
2:A:120:ILE:O	2:A:120:ILE:CG2	0.51	2.57	2	2
2:A:127:LYS:HB2	2:A:138:ILE:CD1	0.51	2.36	2	3
1:B:10:DT:H1'	1:B:11:DG:C3'	0.51	2.35	3	1
2:A:38:SER:HB2	2:A:46:SER:CB	0.51	2.36	4	1
2:A:48:VAL:HG11	2:A:64:ASP:CG	0.51	2.30	4	1
2:A:63:TYR:CD1	2:A:66:TYR:CD2	0.51	2.98	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:1:DG:C1'	2:A:27:TYR:CE2	0.51	2.93	9	1
1:B:9:DG:H4'	1:B:10:DT:C6	0.51	2.41	10	2
2:A:102:ASN:CG	2:A:106:ASP:CB	0.51	2.84	9	1
2:A:57:ILE:CG2	2:A:58:VAL:N	0.51	2.74	9	6
2:A:129:LYS:O	2:A:135:LEU:HD22	0.51	2.04	2	1
2:A:135:LEU:HD13	2:A:136:ASN:N	0.51	2.20	2	3
2:A:15:PHE:CE2	2:A:51:ASP:OD1	0.51	2.63	1	1
2:A:20:LEU:HD23	2:A:26:LYS:CE	0.51	2.35	7	2
2:A:182:PHE:CZ	2:A:191:ILE:HD12	0.51	2.40	2	1
2:A:10:ASP:CB	2:A:11:PRO:HD2	0.51	2.34	5	1
2:A:182:PHE:CD1	2:A:183:GLU:N	0.51	2.79	5	1
2:A:14:GLU:HG3	2:A:53:THR:HG21	0.51	1.82	9	1
2:A:67:LEU:HD11	2:A:74:LEU:CD2	0.51	2.36	1	1
2:A:156:PRO:O	2:A:158:GLN:N	0.51	2.44	9	5
2:A:10:ASP:N	2:A:11:PRO:HD3	0.51	2.21	9	3
2:A:128:VAL:CG1	2:A:135:LEU:HD11	0.51	2.36	6	1
1:B:10:DT:O2	1:B:11:DG:O3'	0.51	2.28	8	1
2:A:15:PHE:CZ	2:A:80:PHE:CD1	0.51	2.98	8	1
2:A:189:PHE:CB	2:A:190:PRO:HD3	0.51	2.35	9	1
2:A:15:PHE:CE2	2:A:51:ASP:CG	0.51	2.89	1	1
1:B:3:DG:O5'	1:B:3:DG:C8	0.51	2.64	2	1
2:A:92:PHE:CZ	2:A:96:LEU:CD1	0.51	2.93	8	2
2:A:143:GLU:OE2	2:A:153:ILE:CG2	0.51	2.58	2	1
2:A:182:PHE:CE2	2:A:191:ILE:HD11	0.51	2.41	2	1
2:A:29:THR:CG2	2:A:123:LYS:CG	0.51	2.89	7	2
2:A:69:ASP:OD2	2:A:177:ALA:HB2	0.51	2.05	6	1
2:A:31:PHE:CZ	2:A:162:LEU:HD11	0.51	2.40	7	1
2:A:71:GLU:HG3	2:A:72:ASN:N	0.51	2.21	8	3
1:B:9:DG:P	2:A:61:TYR:HH	0.51	2.29	3	1
2:A:80:PHE:N	2:A:80:PHE:CD1	0.51	2.79	3	1
1:B:6:DG:OP1	1:B:6:DG:C8	0.51	2.64	6	1
1:B:10:DT:O4'	1:B:11:DG:H1'	0.51	2.06	9	1
2:A:18:LEU:CD1	2:A:57:ILE:HD13	0.51	2.35	10	1
1:B:5:DG:C2	2:A:81:LYS:HD2	0.51	2.41	1	1
1:B:6:DG:H3'	1:B:7:DG:C2	0.51	2.41	2	1
2:A:147:HIS:O	2:A:147:HIS:CD2	0.51	2.64	6	1
2:A:62:LEU:HD21	2:A:81:LYS:N	0.51	2.21	8	1
1:B:1:DG:C1'	2:A:27:TYR:HE1	0.50	2.19	1	1
2:A:13:ILE:CB	2:A:17:GLN:HB3	0.50	2.36	4	4
1:B:5:DG:H5''	2:A:44:PHE:CE2	0.50	2.41	5	1
2:A:62:LEU:O	2:A:63:TYR:C	0.50	2.54	7	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:2:DT:C2'	1:B:3:DG:H5''	0.50	2.35	9	1
2:A:57:ILE:HD13	2:A:135:LEU:CG	0.50	2.35	9	1
1:B:2:DT:C6	1:B:2:DT:H5''	0.50	2.41	10	1
2:A:19:GLY:O	2:A:20:LEU:O	0.50	2.29	7	10
2:A:145:VAL:O	2:A:145:VAL:CG1	0.50	2.56	1	1
2:A:187:ARG:CG	2:A:188:PHE:N	0.50	2.71	1	3
2:A:13:ILE:HB	2:A:17:GLN:CB	0.50	2.37	2	1
2:A:31:PHE:CE2	2:A:123:LYS:HG3	0.50	2.41	7	1
2:A:167:GLN:HG3	2:A:168:ARG:N	0.50	2.20	7	1
1:B:1:DG:C2'	2:A:27:TYR:HE2	0.50	2.19	8	1
2:A:39:PHE:CZ	2:A:45:ILE:HG12	0.50	2.41	8	1
2:A:44:PHE:CE2	2:A:83:ILE:CD1	0.50	2.95	8	1
2:A:24:GLU:OE1	2:A:25:THR:N	0.50	2.43	10	1
1:B:4:DT:O2	2:A:43:ALA:O	0.50	2.28	1	2
2:A:190:PRO:O	2:A:191:ILE:C	0.50	2.54	10	2
2:A:121:VAL:O	2:A:145:VAL:N	0.50	2.44	8	2
2:A:85:TYR:CE2	2:A:87:ASN:HB2	0.50	2.42	3	1
2:A:57:ILE:HG22	2:A:59:GLN:H	0.50	1.66	5	2
2:A:62:LEU:O	2:A:63:TYR:O	0.50	2.29	6	1
2:A:57:ILE:HD12	2:A:135:LEU:CD2	0.50	2.36	10	1
1:B:3:DG:O3'	1:B:5:DG:OP2	0.50	2.30	2	2
2:A:71:GLU:HG2	2:A:72:ASN:N	0.50	2.21	2	2
2:A:92:PHE:HA	2:A:95:LYS:CE	0.50	2.37	5	2
2:A:130:MET:HE1	2:A:133:GLY:O	0.50	2.06	6	1
2:A:58:VAL:O	2:A:59:GLN:O	0.50	2.28	8	7
2:A:66:TYR:O	2:A:67:LEU:O	0.50	2.30	2	4
2:A:150:ILE:HG23	2:A:151:SER:N	0.50	2.22	3	8
2:A:37:CYS:CB	2:A:47:PHE:CE1	0.50	2.94	10	2
1:B:9:DG:P	2:A:61:TYR:CZ	0.50	3.05	3	1
2:A:48:VAL:HG11	2:A:64:ASP:HB3	0.50	1.83	4	1
2:A:135:LEU:C	2:A:135:LEU:HD12	0.50	2.30	7	1
1:B:10:DT:P	2:A:64:ASP:CB	0.50	3.00	1	1
2:A:39:PHE:N	2:A:39:PHE:CD1	0.50	2.80	2	1
2:A:36:SER:OG	2:A:64:ASP:CB	0.50	2.59	4	1
1:B:1:DG:O3'	2:A:27:TYR:OH	0.50	2.29	9	2
1:B:10:DT:O2	1:B:11:DG:N2	0.50	2.45	5	1
1:B:4:DT:OP2	1:B:5:DG:OP1	0.50	2.28	9	2
1:B:7:DG:O4'	1:B:7:DG:OP2	0.50	2.29	8	1
2:A:63:TYR:HA	2:A:66:TYR:CE1	0.50	2.42	8	1
2:A:31:PHE:CE2	2:A:123:LYS:HB3	0.50	2.42	9	1
1:B:3:DG:H2'	1:B:4:DT:C6	0.50	2.42	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:27:TYR:CD1	2:A:127:LYS:HG2	0.50	2.42	2	1
2:A:55:ASN:OD1	2:A:55:ASN:C	0.50	2.55	2	1
2:A:40:ASP:OD1	2:A:40:ASP:N	0.50	2.43	9	1
1:B:2:DT:C5'	1:B:3:DG:OP1	0.50	2.59	1	1
2:A:25:THR:O	2:A:25:THR:HG22	0.50	2.07	2	1
2:A:188:PHE:O	2:A:189:PHE:CB	0.50	2.60	2	1
1:B:2:DT:H1'	1:B:3:DG:C5	0.50	2.42	5	2
2:A:15:PHE:CE2	2:A:55:ASN:ND2	0.50	2.80	4	1
2:A:19:GLY:O	2:A:24:GLU:OE2	0.50	2.30	3	1
2:A:31:PHE:CZ	2:A:123:LYS:HD3	0.50	2.42	3	1
2:A:129:LYS:HE2	2:A:136:ASN:ND2	0.50	2.22	4	1
2:A:65:ARG:O	2:A:66:TYR:O	0.50	2.30	8	1
2:A:74:LEU:HD22	2:A:78:GLU:OE1	0.50	2.07	8	1
2:A:81:LYS:HG3	2:A:82:ALA:N	0.50	2.22	9	1
1:B:9:DG:H2''	1:B:10:DT:C3'	0.49	2.36	2	3
1:B:1:DG:H4'	2:A:27:TYR:CE1	0.49	2.41	3	1
2:A:14:GLU:O	2:A:15:PHE:C	0.49	2.54	3	3
1:B:7:DG:OP1	1:B:7:DG:O4'	0.49	2.30	6	1
2:A:96:LEU:HD22	2:A:100:PHE:CD2	0.49	2.41	7	1
1:B:7:DG:H2'	1:B:8:DT:C2	0.49	2.42	9	1
1:B:3:DG:C2'	1:B:4:DT:H73	0.49	2.37	10	1
2:A:12:THR:C	2:A:13:ILE:HG23	0.49	2.31	6	4
2:A:155:SER:N	2:A:156:PRO:HD2	0.49	2.23	3	2
2:A:185:TYR:CD1	2:A:185:TYR:C	0.49	2.89	2	1
1:B:7:DG:OP2	1:B:7:DG:O4'	0.49	2.31	3	1
2:A:154:ALA:O	2:A:155:SER:CB	0.49	2.59	3	1
2:A:49:PHE:CE2	2:A:124:MET:SD	0.49	3.05	4	1
2:A:180:ARG:C	2:A:181:TYR:CG	0.49	2.89	5	3
2:A:31:PHE:CD2	2:A:123:LYS:HG3	0.49	2.42	7	1
2:A:117:GLN:HG3	2:A:181:TYR:CD2	0.49	2.41	7	1
2:A:50:SER:HB2	2:A:74:LEU:HD11	0.49	1.83	10	1
1:B:8:DT:C2'	2:A:61:TYR:CE2	0.49	2.96	10	9
1:B:10:DT:C2	1:B:11:DG:C2	0.49	3.00	2	2
1:B:11:DG:OP1	1:B:11:DG:H4'	0.49	2.07	2	1
2:A:27:TYR:CD1	2:A:27:TYR:N	0.49	2.77	5	3
2:A:32:GLY:HA3	2:A:49:PHE:CD1	0.49	2.42	2	1
2:A:101:ASN:C	2:A:102:ASN:CG	0.49	2.80	3	1
2:A:15:PHE:CE2	2:A:55:ASN:CG	0.49	2.90	4	1
2:A:123:LYS:C	2:A:124:MET:HG3	0.49	2.32	5	4
2:A:39:PHE:CD1	2:A:39:PHE:O	0.49	2.65	10	1
1:B:4:DT:C1'	2:A:44:PHE:CD2	0.49	2.95	6	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:33:MET:O	2:A:34:LEU:O	0.49	2.31	2	1
1:B:4:DT:O5'	1:B:5:DG:P	0.49	2.70	3	1
1:B:2:DT:C2	1:B:3:DG:O6	0.49	2.66	5	1
1:B:9:DG:H3'	2:A:61:TYR:OH	0.49	2.08	7	1
1:B:11:DG:OP1	2:A:64:ASP:O	0.49	2.30	7	1
1:B:9:DG:C4'	1:B:10:DT:H2'	0.49	2.37	9	1
2:A:127:LYS:HB3	2:A:138:ILE:CD1	0.49	2.37	9	1
2:A:178:ILE:HD13	2:A:185:TYR:CE2	0.49	2.42	10	1
1:B:6:DG:C1'	1:B:7:DG:P	0.49	3.01	1	1
2:A:31:PHE:CE2	2:A:123:LYS:HB2	0.49	2.43	7	2
2:A:155:SER:CB	2:A:156:PRO:HD3	0.49	2.37	1	3
2:A:92:PHE:CZ	2:A:96:LEU:HD11	0.49	2.42	2	1
2:A:37:CYS:SG	2:A:45:ILE:HG22	0.49	2.48	5	2
2:A:143:GLU:OE1	2:A:153:ILE:CG2	0.49	2.60	4	1
2:A:18:LEU:HD12	2:A:57:ILE:HD12	0.49	1.84	5	2
1:B:1:DG:C1'	2:A:27:TYR:OH	0.49	2.59	1	1
1:B:10:DT:H4'	2:A:66:TYR:CD2	0.49	2.42	1	1
2:A:159:CYS:SG	2:A:160:GLU:N	0.49	2.85	3	3
2:A:59:GLN:NE2	2:A:76:LEU:O	0.49	2.45	6	1
1:B:4:DT:H2''	1:B:5:DG:OP2	0.49	2.07	1	2
2:A:50:SER:CB	2:A:79:GLY:CA	0.49	2.91	2	1
2:A:52:PHE:CZ	2:A:168:ARG:CD	0.49	2.95	2	1
1:B:9:DG:O3'	2:A:61:TYR:OH	0.49	2.31	7	1
2:A:21:ASP:HB2	2:A:24:GLU:CG	0.49	2.38	2	3
1:B:5:DG:H3'	2:A:131:TYR:CZ	0.49	2.42	4	1
2:A:180:ARG:CB	2:A:181:TYR:CD1	0.49	2.96	5	3
1:B:6:DG:N2	2:A:136:ASN:OD1	0.49	2.46	9	1
1:B:8:DT:O5'	2:A:63:TYR:HE1	0.49	1.90	1	1
2:A:127:LYS:CB	2:A:138:ILE:CD1	0.49	2.91	2	1
2:A:129:LYS:HG3	2:A:136:ASN:HB3	0.49	1.85	5	4
2:A:147:HIS:O	2:A:149:GLN:N	0.49	2.46	4	1
2:A:186:ARG:O	2:A:189:PHE:O	0.49	2.31	4	2
2:A:20:LEU:HD22	2:A:24:GLU:HB3	0.49	1.85	5	3
2:A:48:VAL:CG1	2:A:64:ASP:HB3	0.49	2.38	4	1
1:B:5:DG:C4	2:A:131:TYR:CE1	0.49	3.01	5	1
2:A:64:ASP:HA	2:A:66:TYR:CE1	0.49	2.42	5	1
2:A:150:ILE:CD1	2:A:162:LEU:HD13	0.49	2.30	7	1
2:A:164:LEU:CD2	2:A:167:GLN:OE1	0.49	2.60	7	1
1:B:6:DG:H2''	2:A:41:LYS:CE	0.49	2.38	9	2
1:B:8:DT:C1'	2:A:61:TYR:CG	0.48	2.95	1	4
2:A:121:VAL:C	2:A:122:CYS:SG	0.48	2.96	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:5:DG:N2	2:A:131:TYR:HA	0.48	2.23	2	1
2:A:27:TYR:CE2	2:A:127:LYS:HD2	0.48	2.43	3	1
2:A:20:LEU:HG	2:A:128:VAL:CG2	0.48	2.38	5	1
2:A:61:TYR:CE2	2:A:66:TYR:OH	0.48	2.56	7	1
2:A:51:ASP:CG	2:A:51:ASP:O	0.48	2.57	10	1
2:A:119:GLY:O	2:A:120:ILE:C	0.48	2.56	2	1
2:A:48:VAL:CB	2:A:64:ASP:HB3	0.48	2.37	4	2
2:A:129:LYS:CE	2:A:136:ASN:ND2	0.48	2.76	4	1
2:A:15:PHE:CD2	2:A:55:ASN:OD1	0.48	2.66	9	1
2:A:100:PHE:O	2:A:101:ASN:HB3	0.48	2.08	7	7
2:A:101:ASN:C	2:A:102:ASN:OD1	0.48	2.56	1	2
2:A:10:ASP:N	2:A:10:ASP:OD1	0.48	2.44	3	1
2:A:29:THR:HG21	2:A:123:LYS:HD2	0.48	1.85	7	2
2:A:35:VAL:CG1	2:A:64:ASP:OD1	0.48	2.61	4	1
2:A:45:ILE:O	2:A:47:PHE:CE2	0.48	2.67	5	1
2:A:52:PHE:CD1	2:A:52:PHE:O	0.48	2.66	7	1
2:A:134:LYS:N	2:A:134:LYS:CD	0.48	2.76	7	1
2:A:63:TYR:O	2:A:65:ARG:N	0.48	2.47	9	1
1:B:2:DT:H4'	1:B:3:DG:OP1	0.48	2.08	1	1
1:B:9:DG:O4'	1:B:10:DT:C5	0.48	2.67	1	1
2:A:43:ALA:O	2:A:44:PHE:HB3	0.48	2.09	6	9
2:A:85:TYR:O	2:A:88:GLN:N	0.48	2.47	3	3
1:B:5:DG:OP2	2:A:83:ILE:HG21	0.48	2.08	4	1
1:B:5:DG:H2''	1:B:6:DG:C5'	0.48	2.39	5	1
1:B:4:DT:C2'	2:A:83:ILE:CD1	0.48	2.90	6	2
2:A:15:PHE:CE1	2:A:51:ASP:CG	0.48	2.92	9	1
2:A:127:LYS:CB	2:A:138:ILE:HG13	0.48	2.39	9	1
1:B:7:DG:H2'	1:B:8:DT:N1	0.48	2.23	9	2
2:A:72:ASN:O	2:A:73:LYS:O	0.48	2.31	2	2
2:A:118:TYR:CE2	2:A:184:GLU:HB3	0.48	2.44	4	1
1:B:4:DT:C5'	1:B:5:DG:OP1	0.48	2.62	7	2
1:B:4:DT:C4'	1:B:5:DG:OP1	0.48	2.60	8	1
2:A:49:PHE:HB3	2:A:80:PHE:CZ	0.48	2.43	1	1
1:B:2:DT:C7	2:A:127:LYS:HE2	0.48	2.38	2	1
2:A:27:TYR:CD1	2:A:127:LYS:HG3	0.48	2.43	2	1
2:A:120:ILE:O	2:A:121:VAL:O	0.48	2.32	3	2
1:B:11:DG:P	2:A:63:TYR:OH	0.48	2.71	4	1
2:A:118:TYR:OH	2:A:184:GLU:CD	0.48	2.57	4	1
2:A:45:ILE:N	2:A:45:ILE:HD12	0.48	2.23	5	1
1:B:2:DT:H5''	1:B:2:DT:C6	0.48	2.43	6	1
1:B:7:DG:N7	2:A:63:TYR:HB3	0.48	2.23	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:9:DG:C1'	1:B:10:DT:H2'	0.48	2.38	9	2
1:B:10:DT:C7	1:B:10:DT:OP1	0.48	2.61	9	1
2:A:58:VAL:CG1	2:A:134:LYS:HA	0.48	2.39	3	4
2:A:101:ASN:O	2:A:102:ASN:CG	0.48	2.57	10	2
1:B:5:DG:C2'	2:A:131:TYR:HE2	0.48	2.21	7	3
2:A:66:TYR:O	2:A:67:LEU:CB	0.48	2.61	6	2
2:A:122:CYS:SG	2:A:143:GLU:O	0.48	2.72	6	3
2:A:67:LEU:HD12	2:A:74:LEU:HG	0.48	1.84	6	1
1:B:4:DT:H5''	1:B:5:DG:H3'	0.48	1.86	9	1
2:A:53:THR:O	2:A:77:ASN:O	0.48	2.31	10	1
2:A:62:LEU:HG	2:A:76:LEU:HD23	0.48	1.85	10	1
1:B:1:DG:H1'	2:A:27:TYR:CE1	0.48	2.43	1	1
2:A:52:PHE:CG	2:A:52:PHE:O	0.48	2.66	2	1
1:B:6:DG:H2'	2:A:41:LYS:CE	0.48	2.39	7	2
2:A:128:VAL:CB	2:A:135:LEU:HD11	0.48	2.39	6	1
2:A:62:LEU:O	2:A:63:TYR:CB	0.48	2.60	8	1
2:A:100:PHE:O	2:A:102:ASN:OD1	0.48	2.31	8	1
2:A:65:ARG:O	2:A:67:LEU:HD23	0.48	2.09	9	1
2:A:58:VAL:C	2:A:59:GLN:HG2	0.48	2.33	6	2
1:B:8:DT:C4'	2:A:63:TYR:CE1	0.48	2.97	3	4
2:A:125:ASN:O	2:A:140:ARG:N	0.48	2.44	3	1
2:A:129:LYS:CE	2:A:136:ASN:CG	0.48	2.86	4	1
2:A:129:LYS:N	2:A:136:ASN:O	0.48	2.46	4	2
1:B:6:DG:C2'	1:B:7:DG:N2	0.48	2.77	5	1
2:A:15:PHE:CD2	2:A:55:ASN:HB2	0.48	2.43	5	2
2:A:13:ILE:CB	2:A:17:GLN:HB2	0.48	2.38	7	1
2:A:36:SER:HB3	2:A:65:ARG:CG	0.48	2.39	7	1
2:A:143:GLU:CD	2:A:144:PRO:O	0.48	2.56	8	1
2:A:21:ASP:O	2:A:22:THR:C	0.48	2.55	6	4
1:B:5:DG:C2'	2:A:131:TYR:CD2	0.48	2.97	3	5
2:A:31:PHE:CZ	2:A:123:LYS:CB	0.48	2.96	4	1
2:A:67:LEU:HD12	2:A:74:LEU:CD1	0.48	2.38	6	1
2:A:128:VAL:HB	2:A:135:LEU:HD21	0.48	1.86	6	1
2:A:62:LEU:CD2	2:A:80:PHE:HA	0.47	2.40	2	3
2:A:103:GLY:O	2:A:104:LEU:C	0.47	2.58	10	8
2:A:67:LEU:HD11	2:A:74:LEU:CD1	0.47	2.39	3	1
1:B:8:DT:C4'	1:B:9:DG:C8	0.47	2.96	8	2
2:A:30:MET:SD	2:A:80:PHE:CD2	0.47	3.07	4	1
2:A:183:GLU:HG3	2:A:184:GLU:N	0.47	2.24	4	1
1:B:7:DG:O6	2:A:81:LYS:HD3	0.47	2.09	9	1
1:B:7:DG:H22	2:A:46:SER:CB	0.47	2.21	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:11:DG:H2''	2:A:70:TYR:CD2	0.47	2.44	1	1
2:A:70:TYR:N	2:A:70:TYR:CD1	0.47	2.82	1	4
2:A:36:SER:HB2	2:A:64:ASP:O	0.47	2.10	2	3
2:A:117:GLN:HG2	2:A:181:TYR:CG	0.47	2.45	2	1
2:A:48:VAL:CG2	2:A:64:ASP:CB	0.47	2.92	9	2
2:A:51:ASP:OD1	2:A:78:GLU:O	0.47	2.32	6	1
2:A:155:SER:OG	2:A:158:GLN:NE2	0.47	2.47	7	1
2:A:39:PHE:CE1	2:A:45:ILE:HG12	0.47	2.43	9	2
2:A:141:GLU:O	2:A:141:GLU:CD	0.47	2.56	9	1
2:A:15:PHE:HB3	2:A:55:ASN:N	0.47	2.25	8	3
2:A:52:PHE:O	2:A:53:THR:OG1	0.47	2.32	1	2
2:A:86:LYS:O	2:A:90:GLU:HG2	0.47	2.09	1	9
2:A:51:ASP:OD1	2:A:51:ASP:C	0.47	2.57	2	1
2:A:35:VAL:C	2:A:36:SER:OG	0.47	2.55	6	3
2:A:48:VAL:HG11	2:A:64:ASP:CB	0.47	2.39	4	1
2:A:36:SER:OG	2:A:64:ASP:O	0.47	2.32	6	4
1:B:2:DT:H2'	1:B:3:DG:C5	0.47	2.43	7	1
2:A:13:ILE:O	2:A:14:GLU:HG2	0.47	2.10	7	1
2:A:121:VAL:HG12	2:A:145:VAL:HB	0.47	1.86	8	1
1:B:4:DT:H2'	2:A:83:ILE:HD13	0.47	1.80	9	1
1:B:4:DT:H73	2:A:85:TYR:OH	0.47	2.09	10	1
1:B:9:DG:C4'	1:B:10:DT:O5'	0.47	2.62	5	3
2:A:61:TYR:CE2	2:A:63:TYR:HA	0.47	2.44	1	1
2:A:25:THR:OG1	2:A:129:LYS:HB2	0.47	2.09	2	1
2:A:120:ILE:O	2:A:121:VAL:C	0.47	2.57	2	3
2:A:31:PHE:CE1	2:A:123:LYS:HB2	0.47	2.45	3	1
1:B:5:DG:H2''	1:B:6:DG:OP2	0.47	2.09	4	2
2:A:15:PHE:O	2:A:54:LYS:O	0.47	2.32	8	3
2:A:38:SER:CB	2:A:46:SER:HB2	0.47	2.40	4	1
1:B:5:DG:H5''	2:A:44:PHE:CZ	0.47	2.44	5	1
2:A:64:ASP:O	2:A:65:ARG:CG	0.47	2.62	1	1
1:B:3:DG:OP2	2:A:138:ILE:HD11	0.47	2.09	2	2
1:B:4:DT:H4'	1:B:5:DG:OP1	0.47	2.10	8	2
2:A:187:ARG:O	2:A:188:PHE:O	0.47	2.33	2	1
2:A:150:ILE:O	2:A:154:ALA:N	0.47	2.47	3	1
1:B:7:DG:C5	2:A:63:TYR:HB2	0.47	2.44	5	1
1:B:7:DG:H2'	1:B:8:DT:C5'	0.47	2.40	5	2
2:A:131:TYR:CD2	2:A:134:LYS:HB2	0.47	2.44	5	1
2:A:24:GLU:OE2	2:A:26:LYS:CE	0.47	2.63	6	1
2:A:45:ILE:CG2	2:A:47:PHE:CE1	0.47	2.98	7	1
2:A:36:SER:CB	2:A:64:ASP:O	0.47	2.62	2	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:39:PHE:O	2:A:40:ASP:C	0.47	2.57	3	3
2:A:129:LYS:CG	2:A:136:ASN:HB3	0.47	2.39	6	5
2:A:182:PHE:O	2:A:183:GLU:C	0.47	2.57	3	1
2:A:68:ILE:CD1	2:A:117:GLN:HG2	0.47	2.38	5	1
2:A:70:TYR:O	2:A:71:GLU:C	0.47	2.57	5	1
2:A:38:SER:O	2:A:45:ILE:HA	0.47	2.10	6	2
1:B:4:DT:H5''	1:B:5:DG:OP1	0.47	2.09	7	1
2:A:132:ASN:O	2:A:132:ASN:OD1	0.47	2.33	9	1
2:A:15:PHE:CE1	2:A:80:PHE:HB3	0.47	2.44	10	1
2:A:188:PHE:O	2:A:188:PHE:CG	0.47	2.68	10	1
1:B:3:DG:N9	1:B:4:DT:H71	0.47	2.23	1	1
2:A:27:TYR:C	2:A:28:ILE:CG2	0.47	2.87	5	5
2:A:33:MET:O	2:A:119:GLY:O	0.47	2.32	2	1
2:A:101:ASN:CG	2:A:101:ASN:O	0.47	2.57	2	4
2:A:14:GLU:O	2:A:17:GLN:N	0.47	2.48	4	2
2:A:74:LEU:HD12	2:A:74:LEU:O	0.47	2.09	4	1
1:B:7:DG:O6	2:A:81:LYS:HE2	0.47	2.09	9	3
1:B:2:DT:C1'	1:B:3:DG:C4	0.47	2.97	7	1
1:B:6:DG:C8	2:A:41:LYS:HE3	0.47	2.45	7	1
2:A:13:ILE:CA	2:A:17:GLN:HB2	0.47	2.38	7	2
2:A:71:GLU:C	2:A:71:GLU:OE1	0.47	2.58	8	1
1:B:5:DG:H5''	1:B:6:DG:N3	0.47	2.25	9	1
2:A:24:GLU:OE1	2:A:24:GLU:CA	0.47	2.62	10	1
2:A:44:PHE:CE2	2:A:83:ILE:HG21	0.47	2.45	10	1
1:B:11:DG:H2''	2:A:70:TYR:CZ	0.47	2.45	5	2
2:A:91:THR:O	2:A:95:LYS:HG2	0.47	2.10	10	4
2:A:183:GLU:O	2:A:186:ARG:HG2	0.47	2.10	4	5
2:A:96:LEU:HD13	2:A:104:LEU:CD1	0.47	2.39	3	1
2:A:126:ILE:HG12	2:A:139:VAL:HG22	0.47	1.87	4	1
2:A:63:TYR:O	2:A:66:TYR:OH	0.47	2.33	5	1
2:A:75:GLU:OE1	2:A:78:GLU:CD	0.47	2.57	6	1
1:B:5:DG:N2	2:A:130:MET:O	0.47	2.48	8	1
1:B:5:DG:N7	2:A:136:ASN:HB2	0.47	2.25	9	1
2:A:169:ALA:O	2:A:173:ILE:HB	0.47	2.10	1	2
2:A:92:PHE:CD1	2:A:142:CYS:HB2	0.47	2.44	3	2
1:B:6:DG:O6	2:A:43:ALA:HB1	0.47	2.09	5	1
2:A:10:ASP:HB3	2:A:11:PRO:HD2	0.47	1.84	5	1
2:A:52:PHE:O	2:A:53:THR:C	0.47	2.56	6	2
1:B:11:DG:C2'	2:A:70:TYR:CE1	0.47	2.98	7	1
2:A:21:ASP:HB2	2:A:24:GLU:CD	0.47	2.35	9	3
2:A:48:VAL:CG2	2:A:81:LYS:CD	0.47	2.92	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:9:DG:OP1	1:B:9:DG:C5	0.47	2.67	8	1
2:A:117:GLN:OE1	2:A:117:GLN:N	0.47	2.47	9	1
2:A:51:ASP:OD1	2:A:161:HIS:CE1	0.46	2.69	2	1
2:A:67:LEU:HD23	2:A:68:ILE:H	0.46	1.69	2	1
2:A:104:LEU:O	2:A:107:LEU:N	0.46	2.43	2	1
2:A:129:LYS:O	2:A:136:ASN:N	0.46	2.41	4	1
2:A:15:PHE:CE2	2:A:55:ASN:HB2	0.46	2.45	5	3
2:A:189:PHE:CD2	2:A:190:PRO:HD2	0.46	2.45	1	2
2:A:67:LEU:HD23	2:A:68:ILE:N	0.46	2.25	2	1
2:A:14:GLU:C	2:A:16:CYS:N	0.46	2.72	3	3
2:A:57:ILE:CD1	2:A:135:LEU:HD13	0.46	2.40	3	1
2:A:128:VAL:HG12	2:A:135:LEU:HD11	0.46	1.85	6	1
2:A:183:GLU:O	2:A:186:ARG:HG3	0.46	2.10	9	5
2:A:14:GLU:CB	2:A:30:MET:HE2	0.46	2.40	7	1
2:A:35:VAL:HB	2:A:48:VAL:HG12	0.46	1.86	7	1
2:A:117:GLN:HG3	2:A:181:TYR:CG	0.46	2.45	7	1
2:A:97:ARG:CG	2:A:102:ASN:O	0.46	2.63	10	2
2:A:31:PHE:CE2	2:A:123:LYS:HG2	0.46	2.46	10	1
2:A:179:SER:O	2:A:182:PHE:CD2	0.46	2.68	10	1
1:B:6:DG:C4'	1:B:7:DG:OP1	0.46	2.63	1	1
1:B:5:DG:C1'	2:A:131:TYR:HD2	0.46	2.24	8	5
1:B:9:DG:O5'	1:B:9:DG:N9	0.46	2.48	2	1
1:B:10:DT:H1'	1:B:11:DG:H3'	0.46	1.87	3	1
2:A:97:ARG:HG2	2:A:102:ASN:C	0.46	2.35	10	3
2:A:187:ARG:HG3	2:A:188:PHE:N	0.46	2.25	4	1
2:A:36:SER:OG	2:A:64:ASP:C	0.46	2.59	6	1
2:A:96:LEU:CD1	2:A:104:LEU:HD11	0.46	2.39	8	1
2:A:123:LYS:HD2	2:A:143:GLU:CG	0.46	2.41	8	1
1:B:6:DG:C1'	1:B:7:DG:OP1	0.46	2.63	1	1
2:A:102:ASN:HB2	2:A:106:ASP:CB	0.46	2.40	8	4
2:A:119:GLY:O	2:A:120:ILE:HB	0.46	2.10	3	1
2:A:186:ARG:HA	2:A:189:PHE:O	0.46	2.09	8	1
1:B:8:DT:C4'	2:A:61:TYR:CE2	0.46	2.98	1	4
2:A:58:VAL:CG1	2:A:59:GLN:N	0.46	2.79	7	4
2:A:61:TYR:C	2:A:76:LEU:HD13	0.46	2.33	1	1
2:A:62:LEU:O	2:A:62:LEU:CD1	0.46	2.56	1	1
2:A:64:ASP:C	2:A:65:ARG:HG2	0.46	2.36	1	1
2:A:83:ILE:O	2:A:139:VAL:N	0.46	2.48	2	3
1:B:5:DG:OP2	2:A:83:ILE:CB	0.46	2.63	4	1
1:B:7:DG:C3'	1:B:8:DT:H72	0.46	2.40	10	2
2:A:48:VAL:HG22	2:A:81:LYS:HA	0.46	1.86	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:14:GLU:CA	2:A:18:LEU:HD23	0.46	2.38	7	1
2:A:115:LEU:O	2:A:116:SER:C	0.46	2.56	8	1
1:B:4:DT:O3'	2:A:83:ILE:HG12	0.46	2.10	9	1
1:B:9:DG:C1'	1:B:10:DT:C2'	0.46	2.93	9	1
2:A:102:ASN:CB	2:A:106:ASP:CB	0.46	2.93	1	1
2:A:23:PHE:O	2:A:24:GLU:O	0.46	2.33	2	1
2:A:49:PHE:CZ	2:A:122:CYS:SG	0.46	3.09	3	1
2:A:49:PHE:CD2	2:A:124:MET:HE1	0.46	2.46	3	4
2:A:65:ARG:HG3	2:A:66:TYR:N	0.46	2.25	5	1
2:A:32:GLY:HA2	2:A:50:SER:O	0.46	2.11	8	1
2:A:117:GLN:HB2	2:A:181:TYR:CD2	0.46	2.44	9	1
2:A:63:TYR:CE2	2:A:66:TYR:OH	0.46	2.67	10	1
1:B:3:DG:H2''	1:B:4:DT:OP1	0.46	2.10	2	5
2:A:11:PRO:C	2:A:12:THR:OG1	0.46	2.59	1	1
2:A:71:GLU:C	2:A:71:GLU:CD	0.46	2.83	1	1
2:A:34:LEU:HA	2:A:49:PHE:HB3	0.46	1.87	2	1
2:A:47:PHE:CE1	2:A:104:LEU:HD23	0.46	2.46	3	1
1:B:10:DT:O3'	2:A:63:TYR:OH	0.46	2.33	4	1
2:A:63:TYR:C	2:A:64:ASP:CG	0.46	2.84	4	3
1:B:5:DG:H4'	1:B:6:DG:C5	0.46	2.45	5	1
2:A:91:THR:O	2:A:95:LYS:HE2	0.46	2.11	5	2
2:A:64:ASP:OD1	2:A:64:ASP:N	0.46	2.48	7	2
1:B:5:DG:OP2	2:A:138:ILE:CG2	0.46	2.64	10	1
2:A:101:ASN:O	2:A:101:ASN:ND2	0.46	2.49	2	1
1:B:7:DG:OP1	1:B:8:DT:O4	0.46	2.34	3	1
2:A:99:ILE:CD1	2:A:144:PRO:HB2	0.46	2.40	6	1
2:A:13:ILE:HB	2:A:17:GLN:HB2	0.46	1.88	7	1
2:A:65:ARG:HG2	2:A:66:TYR:N	0.46	2.24	8	1
1:B:8:DT:C4'	2:A:63:TYR:CE2	0.46	2.99	9	1
2:A:44:PHE:CZ	2:A:83:ILE:CG2	0.46	2.98	10	1
2:A:58:VAL:HB	2:A:134:LYS:HA	0.46	1.86	10	1
1:B:8:DT:O5'	2:A:63:TYR:CE1	0.46	2.69	1	1
2:A:100:PHE:O	2:A:102:ASN:CG	0.46	2.58	1	1
2:A:178:ILE:O	2:A:182:PHE:CA	0.46	2.64	8	3
2:A:35:VAL:O	2:A:36:SER:OG	0.46	2.33	10	3
2:A:127:LYS:O	2:A:138:ILE:HG12	0.46	2.10	3	2
2:A:187:ARG:O	2:A:188:PHE:CB	0.46	2.62	3	1
2:A:92:PHE:CD1	2:A:142:CYS:HB3	0.46	2.45	5	1
2:A:50:SER:HB3	2:A:65:ARG:NH1	0.46	2.25	1	1
2:A:13:ILE:HB	2:A:17:GLN:O	0.46	2.11	5	6
2:A:31:PHE:CE1	2:A:123:LYS:HD3	0.46	2.46	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:33:MET:O	2:A:34:LEU:C	0.46	2.57	6	3
2:A:126:ILE:HG12	2:A:138:ILE:O	0.46	2.11	4	3
2:A:133:GLY:C	2:A:134:LYS:HD2	0.46	2.36	4	2
2:A:183:GLU:HA	2:A:186:ARG:HG2	0.45	1.88	5	4
2:A:97:ARG:HG2	2:A:102:ASN:O	0.45	2.11	9	5
2:A:69:ASP:O	2:A:70:TYR:HB2	0.45	2.09	5	1
2:A:131:TYR:CB	2:A:136:ASN:HB2	0.45	2.40	5	2
2:A:182:PHE:CG	2:A:183:GLU:N	0.45	2.83	6	2
2:A:40:ASP:O	2:A:41:LYS:C	0.45	2.56	4	3
2:A:49:PHE:CZ	2:A:124:MET:SD	0.45	3.10	2	1
2:A:20:LEU:HD13	2:A:21:ASP:N	0.45	2.25	3	2
2:A:29:THR:HA	2:A:124:MET:O	0.45	2.11	3	5
2:A:118:TYR:CD1	2:A:118:TYR:N	0.45	2.84	4	1
2:A:126:ILE:CB	2:A:138:ILE:O	0.45	2.65	4	1
2:A:177:ALA:HA	2:A:180:ARG:CG	0.45	2.41	4	1
2:A:61:TYR:O	2:A:76:LEU:CD2	0.45	2.65	6	1
2:A:31:PHE:CE2	2:A:123:LYS:CG	0.45	2.99	7	2
1:B:5:DG:H5''	1:B:6:DG:C2	0.45	2.46	9	1
2:A:14:GLU:O	2:A:14:GLU:CG	0.45	2.65	9	1
2:A:60:ASN:O	2:A:62:LEU:N	0.45	2.49	9	1
2:A:25:THR:HA	2:A:128:VAL:O	0.45	2.12	10	3
2:A:180:ARG:C	2:A:181:TYR:CD1	0.45	2.94	5	1
2:A:48:VAL:CG2	2:A:81:LYS:HD2	0.45	2.42	6	1
2:A:85:TYR:CD2	2:A:87:ASN:HB2	0.45	2.46	6	1
2:A:30:MET:SD	2:A:80:PHE:CZ	0.45	3.09	7	1
2:A:37:CYS:O	2:A:37:CYS:SG	0.45	2.74	8	1
2:A:38:SER:CB	2:A:46:SER:HB3	0.45	2.41	9	1
2:A:39:PHE:O	2:A:39:PHE:CG	0.45	2.68	10	1
1:B:10:DT:OP1	2:A:73:LYS:HB2	0.45	2.11	5	1
1:B:5:DG:C4	2:A:136:ASN:HB2	0.45	2.46	8	2
2:A:15:PHE:N	2:A:15:PHE:CD1	0.45	2.85	9	1
1:B:3:DG:H1'	1:B:4:DT:H73	0.45	1.88	10	1
2:A:121:VAL:HG21	2:A:165:PHE:CE1	0.45	2.46	10	1
1:B:6:DG:O4'	1:B:7:DG:OP1	0.45	2.35	1	1
1:B:10:DT:OP1	2:A:73:LYS:CD	0.45	2.64	1	1
2:A:50:SER:CB	2:A:65:ARG:NH1	0.45	2.79	1	1
2:A:85:TYR:O	2:A:86:LYS:C	0.45	2.60	2	6
2:A:149:GLN:O	2:A:150:ILE:C	0.45	2.57	4	3
2:A:22:THR:O	2:A:130:MET:HB2	0.45	2.12	2	3
2:A:14:GLU:CD	2:A:53:THR:CG2	0.45	2.88	3	1
2:A:63:TYR:C	2:A:65:ARG:N	0.45	2.73	9	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:5:DG:C2'	1:B:6:DG:OP2	0.45	2.65	4	1
2:A:92:PHE:CE2	2:A:104:LEU:HD22	0.45	2.46	5	1
2:A:44:PHE:CE1	2:A:83:ILE:HG22	0.45	2.46	6	2
2:A:145:VAL:CG1	2:A:145:VAL:O	0.45	2.63	6	1
1:B:1:DG:H2'	2:A:27:TYR:CE2	0.45	2.47	7	1
2:A:61:TYR:CD2	2:A:66:TYR:OH	0.45	2.65	7	1
1:B:10:DT:OP1	2:A:65:ARG:NH1	0.45	2.50	10	1
2:A:129:LYS:O	2:A:135:LEU:HA	0.45	2.12	8	4
1:B:11:DG:C3'	2:A:70:TYR:CE2	0.45	3.00	3	2
2:A:24:GLU:O	2:A:25:THR:HB	0.45	2.08	5	5
2:A:84:MET:O	2:A:84:MET:CG	0.45	2.64	3	2
2:A:77:ASN:OD1	2:A:77:ASN:N	0.45	2.48	10	2
1:B:6:DG:OP2	2:A:60:ASN:CG	0.45	2.60	8	1
2:A:14:GLU:OE2	2:A:161:HIS:NE2	0.45	2.50	9	1
2:A:61:TYR:O	2:A:62:LEU:HB2	0.45	2.11	10	1
1:B:7:DG:H1'	2:A:63:TYR:CE1	0.45	2.47	1	1
1:B:11:DG:P	2:A:66:TYR:CE1	0.45	3.10	2	1
2:A:39:PHE:CG	2:A:40:ASP:N	0.45	2.85	4	1
2:A:186:ARG:HB2	2:A:189:PHE:O	0.45	2.12	9	2
1:B:5:DG:C4'	1:B:6:DG:N7	0.45	2.76	5	1
1:B:6:DG:H2'	2:A:41:LYS:HE3	0.45	1.88	7	1
2:A:36:SER:HB2	2:A:64:ASP:CB	0.45	2.42	10	1
1:B:7:DG:H2''	1:B:8:DT:OP1	0.45	2.11	6	4
2:A:74:LEU:HD21	2:A:78:GLU:CD	0.45	2.37	2	1
1:B:8:DT:O5'	2:A:63:TYR:HE2	0.45	1.93	9	2
2:A:97:ARG:O	2:A:101:ASN:CA	0.45	2.65	5	1
2:A:62:LEU:HD12	2:A:76:LEU:CA	0.45	2.38	6	1
2:A:35:VAL:HG21	2:A:50:SER:OG	0.45	2.10	8	1
2:A:61:TYR:O	2:A:62:LEU:CB	0.45	2.64	10	1
1:B:5:DG:N2	1:B:7:DG:O6	0.45	2.50	5	2
1:B:8:DT:C3'	2:A:61:TYR:CE2	0.45	2.99	1	4
1:B:10:DT:OP1	2:A:73:LYS:CG	0.45	2.65	1	1
1:B:3:DG:H5'	2:A:138:ILE:CD1	0.45	2.41	2	1
2:A:14:GLU:CG	2:A:161:HIS:CE1	0.45	3.00	2	1
1:B:10:DT:H2'	1:B:11:DG:OP2	0.45	2.12	4	1
1:B:9:DG:C5'	2:A:61:TYR:OH	0.45	2.65	5	1
2:A:96:LEU:HD21	2:A:120:ILE:HG21	0.45	1.89	6	1
1:B:9:DG:O5'	1:B:9:DG:H8	0.45	1.93	9	1
2:A:83:ILE:CD1	2:A:83:ILE:C	0.45	2.87	5	1
1:B:5:DG:C2'	1:B:6:DG:OP1	0.45	2.64	8	1
1:B:5:DG:P	2:A:136:ASN:OD1	0.45	2.75	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:61:TYR:CA	2:A:76:LEU:HD21	0.45	2.41	10	1
2:A:188:PHE:O	2:A:188:PHE:CD2	0.45	2.70	10	1
2:A:27:TYR:CE1	2:A:127:LYS:HG2	0.44	2.46	2	1
2:A:27:TYR:CE2	2:A:127:LYS:CD	0.44	3.00	3	1
2:A:186:ARG:O	2:A:189:PHE:N	0.44	2.50	3	1
2:A:101:ASN:O	2:A:102:ASN:OD1	0.44	2.35	5	2
2:A:61:TYR:C	2:A:63:TYR:N	0.44	2.73	6	2
2:A:63:TYR:O	2:A:64:ASP:HB2	0.44	2.11	6	1
2:A:22:THR:HA	2:A:130:MET:CG	0.44	2.42	7	2
2:A:141:GLU:HG3	2:A:142:CYS:N	0.44	2.27	2	1
2:A:55:ASN:HB2	2:A:77:ASN:CA	0.44	2.43	4	1
1:B:10:DT:OP1	2:A:73:LYS:CB	0.44	2.65	5	1
1:B:11:DG:OP2	2:A:63:TYR:CE1	0.44	2.70	7	1
2:A:26:LYS:HG2	2:A:128:VAL:CG2	0.44	2.43	7	1
2:A:101:ASN:O	2:A:101:ASN:CG	0.44	2.60	1	1
2:A:10:ASP:OD1	2:A:10:ASP:O	0.44	2.34	2	1
2:A:55:ASN:OD1	2:A:56:ASP:N	0.44	2.51	2	1
2:A:126:ILE:CA	2:A:138:ILE:O	0.44	2.64	10	2
1:B:5:DG:C1'	2:A:136:ASN:HB2	0.44	2.42	8	2
1:B:9:DG:C1'	1:B:10:DT:H71	0.44	2.42	6	1
1:B:4:DT:P	1:B:5:DG:OP1	0.44	2.76	7	1
1:B:10:DT:C1'	1:B:11:DG:HO3'	0.44	2.25	8	1
2:A:143:GLU:OE1	2:A:144:PRO:N	0.44	2.50	8	1
2:A:60:ASN:OD1	2:A:134:LYS:HG2	0.44	2.12	9	1
1:B:1:DG:H5'	1:B:2:DT:C4	0.44	2.47	1	1
1:B:2:DT:O3'	1:B:3:DG:C8	0.44	2.70	1	1
1:B:10:DT:OP1	2:A:73:LYS:HD3	0.44	2.12	1	1
2:A:21:ASP:O	2:A:24:GLU:HB2	0.44	2.12	7	4
2:A:52:PHE:O	2:A:53:THR:O	0.44	2.35	1	1
2:A:14:GLU:HG3	2:A:161:HIS:CE1	0.44	2.48	2	1
2:A:130:MET:CE	2:A:133:GLY:O	0.44	2.66	7	1
2:A:15:PHE:HB3	2:A:55:ASN:CA	0.44	2.42	8	1
2:A:68:ILE:HG22	2:A:69:ASP:N	0.44	2.26	9	1
2:A:57:ILE:CD1	2:A:135:LEU:HD22	0.44	2.39	10	1
2:A:122:CYS:CB	2:A:144:PRO:HA	0.44	2.43	10	1
2:A:131:TYR:O	2:A:132:ASN:HB2	0.44	2.13	3	3
2:A:175:GLU:HA	2:A:178:ILE:HD12	0.44	1.90	1	1
2:A:51:ASP:CG	2:A:161:HIS:CE1	0.44	2.95	2	1
2:A:33:MET:HG3	2:A:119:GLY:O	0.44	2.11	3	1
1:B:5:DG:C3'	2:A:131:TYR:HE2	0.44	2.25	4	1
1:B:4:DT:H2''	2:A:44:PHE:HD2	0.44	1.72	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:35:VAL:CG2	2:A:50:SER:HB2	0.44	2.43	8	1
2:A:123:LYS:CD	2:A:143:GLU:HG2	0.44	2.43	8	1
2:A:57:ILE:CD1	2:A:135:LEU:HG	0.44	2.40	9	1
2:A:183:GLU:HA	2:A:186:ARG:CD	0.44	2.43	1	2
1:B:5:DG:N9	2:A:136:ASN:OD1	0.44	2.50	3	1
2:A:45:ILE:HG13	2:A:89:PHE:CB	0.44	2.42	4	2
1:B:10:DT:O4'	1:B:11:DG:N3	0.44	2.49	5	1
2:A:47:PHE:O	2:A:82:ALA:N	0.44	2.51	6	1
1:B:2:DT:O4'	1:B:3:DG:H5'	0.44	2.13	7	1
2:A:104:LEU:HA	2:A:107:LEU:CD1	0.44	2.42	8	2
2:A:35:VAL:CG1	2:A:65:ARG:HG3	0.44	2.40	8	1
2:A:71:GLU:OE1	2:A:71:GLU:O	0.44	2.35	8	1
2:A:143:GLU:OE1	2:A:144:PRO:CD	0.44	2.66	8	1
2:A:119:GLY:CA	2:A:185:TYR:CE1	0.44	3.00	9	1
2:A:55:ASN:CB	2:A:77:ASN:HA	0.44	2.42	10	1
2:A:102:ASN:HB3	2:A:106:ASP:CB	0.44	2.43	10	1
2:A:65:ARG:HD3	2:A:74:LEU:CD2	0.44	2.43	1	1
2:A:147:HIS:O	2:A:148:SER:HB2	0.44	2.11	3	1
2:A:155:SER:N	2:A:156:PRO:CD	0.44	2.81	3	1
2:A:51:ASP:HA	2:A:165:PHE:CE1	0.44	2.48	4	1
1:B:11:DG:N9	2:A:70:TYR:CD2	0.44	2.86	5	1
2:A:163:ARG:HD2	2:A:163:ARG:N	0.44	2.28	5	1
2:A:146:PRO:O	2:A:147:HIS:HB2	0.44	2.13	6	1
1:B:7:DG:H2''	1:B:8:DT:O4'	0.44	2.13	1	1
1:B:7:DG:C3'	1:B:8:DT:C6	0.44	3.00	1	2
2:A:60:ASN:OD1	2:A:60:ASN:C	0.44	2.61	3	1
2:A:100:PHE:O	2:A:101:ASN:HB2	0.44	2.13	10	3
1:B:9:DG:H4'	1:B:10:DT:O5'	0.44	2.12	6	2
2:A:14:GLU:OE2	2:A:51:ASP:OD2	0.44	2.36	5	1
1:B:2:DT:C2	1:B:3:DG:N3	0.44	2.86	7	1
2:A:87:ASN:HA	2:A:90:GLU:HG3	0.44	1.88	8	1
2:A:143:GLU:O	2:A:143:GLU:HG3	0.44	2.12	8	1
2:A:58:VAL:O	2:A:59:GLN:CG	0.44	2.66	1	1
1:B:6:DG:C8	1:B:6:DG:O5'	0.44	2.71	2	1
2:A:131:TYR:HB3	2:A:134:LYS:CG	0.44	2.43	3	1
2:A:45:ILE:HG22	2:A:47:PHE:CE1	0.44	2.48	7	1
1:B:7:DG:C2'	1:B:7:DG:OP1	0.44	2.66	8	1
1:B:9:DG:H5'	1:B:10:DT:H71	0.43	1.90	1	1
2:A:52:PHE:CZ	2:A:168:ARG:HD2	0.43	2.48	2	1
2:A:45:ILE:HG21	2:A:47:PHE:CE2	0.43	2.48	4	1
2:A:169:ALA:O	2:A:173:ILE:CG1	0.43	2.66	8	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:5:DG:C8	1:B:5:DG:C5'	0.43	3.00	9	2
1:B:10:DT:H2''	1:B:11:DG:OP2	0.43	2.13	6	1
2:A:147:HIS:CD2	2:A:147:HIS:C	0.43	2.94	6	1
2:A:30:MET:HE1	2:A:51:ASP:OD2	0.43	2.12	7	1
2:A:189:PHE:CD1	2:A:189:PHE:C	0.43	2.95	7	1
2:A:168:ARG:O	2:A:172:ARG:N	0.43	2.47	10	1
1:B:6:DG:H1'	1:B:7:DG:P	0.43	2.53	1	1
2:A:70:TYR:CD1	2:A:70:TYR:N	0.43	2.85	2	1
2:A:33:MET:N	2:A:50:SER:O	0.43	2.50	4	2
2:A:14:GLU:HA	2:A:30:MET:CE	0.43	2.43	5	1
1:B:2:DT:H71	2:A:127:LYS:HZ1	0.43	1.73	6	1
2:A:48:VAL:HG11	2:A:65:ARG:HB2	0.43	1.89	8	1
2:A:71:GLU:HG3	2:A:72:ASN:OD1	0.43	2.14	8	1
1:B:5:DG:H4'	1:B:6:DG:O5'	0.43	2.13	9	1
1:B:9:DG:P	1:B:9:DG:N7	0.43	2.91	2	1
2:A:50:SER:HB2	2:A:79:GLY:CA	0.43	2.43	2	1
2:A:67:LEU:CD1	2:A:74:LEU:CD1	0.43	2.96	5	1
2:A:108:GLN:HA	2:A:115:LEU:HD21	0.43	1.90	9	1
1:B:3:DG:H2'	1:B:4:DT:C5	0.43	2.49	1	1
2:A:84:MET:O	2:A:84:MET:HG2	0.43	2.12	1	1
2:A:15:PHE:HB2	2:A:53:THR:OG1	0.43	2.13	2	1
2:A:28:ILE:O	2:A:126:ILE:N	0.43	2.52	2	3
2:A:42:PRO:O	2:A:86:LYS:NZ	0.43	2.44	3	1
2:A:89:PHE:O	2:A:90:GLU:C	0.43	2.59	7	2
2:A:186:ARG:HB3	2:A:191:ILE:CG1	0.43	2.43	4	2
1:B:4:DT:H5''	1:B:5:DG:O5'	0.43	2.13	5	1
2:A:127:LYS:HB2	2:A:138:ILE:CG1	0.43	2.43	8	2
2:A:145:VAL:O	2:A:145:VAL:HG12	0.43	2.12	7	1
2:A:35:VAL:CG1	2:A:74:LEU:HD12	0.43	2.43	9	1
2:A:75:GLU:CG	2:A:78:GLU:OE1	0.43	2.66	10	1
2:A:173:ILE:HD13	2:A:185:TYR:OH	0.43	2.13	10	1
2:A:54:LYS:HG3	2:A:54:LYS:O	0.43	2.14	2	1
2:A:48:VAL:HG22	2:A:81:LYS:HB2	0.43	1.89	3	1
1:B:10:DT:O4'	1:B:11:DG:N2	0.43	2.52	5	1
2:A:48:VAL:CG2	2:A:64:ASP:HB2	0.43	2.43	5	1
1:B:1:DG:O5'	1:B:2:DT:C5	0.43	2.71	9	1
2:A:95:LYS:O	2:A:99:ILE:HG13	0.43	2.14	10	2
2:A:15:PHE:CZ	2:A:55:ASN:OD1	0.43	2.72	10	1
2:A:74:LEU:C	2:A:74:LEU:CD1	0.43	2.89	1	2
2:A:177:ALA:HA	2:A:180:ARG:HG2	0.43	1.89	4	2
1:B:8:DT:O3'	1:B:9:DG:H8	0.43	1.97	7	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:154:ALA:HB1	2:A:158:GLN:HB3	0.43	1.91	5	1
2:A:37:CYS:HA	2:A:46:SER:O	0.43	2.14	1	2
2:A:127:LYS:HB2	2:A:138:ILE:HG13	0.43	1.91	2	2
2:A:31:PHE:CZ	2:A:158:GLN:NE2	0.43	2.86	3	1
1:B:4:DT:P	1:B:4:DT:H3'	0.43	2.53	5	1
2:A:174:GLY:O	2:A:175:GLU:C	0.43	2.60	8	3
1:B:9:DG:H4'	1:B:10:DT:OP1	0.43	2.14	7	2
2:A:13:ILE:C	2:A:13:ILE:HD12	0.43	2.39	8	1
2:A:139:VAL:CG1	2:A:141:GLU:O	0.43	2.67	2	2
1:B:2:DT:H1'	1:B:3:DG:C4	0.43	2.48	5	1
2:A:28:ILE:HD12	2:A:30:MET:HG2	0.43	1.89	6	1
2:A:25:THR:HG23	2:A:127:LYS:NZ	0.43	2.28	7	1
2:A:48:VAL:HG21	2:A:64:ASP:OD1	0.43	2.14	8	1
1:B:8:DT:O4'	2:A:61:TYR:CD2	0.43	2.72	10	2
2:A:105:ARG:O	2:A:108:GLN:HG2	0.43	2.14	1	2
2:A:165:PHE:CD1	2:A:166:TYR:N	0.43	2.87	1	1
2:A:93:ASP:O	2:A:94:SER:C	0.43	2.61	8	2
2:A:178:ILE:O	2:A:182:PHE:N	0.43	2.51	8	2
2:A:44:PHE:CE2	2:A:83:ILE:HD12	0.43	2.49	8	1
2:A:120:ILE:O	2:A:120:ILE:HG22	0.43	2.14	8	1
2:A:123:LYS:HD2	2:A:143:GLU:HG2	0.43	1.89	8	1
2:A:143:GLU:OE1	2:A:144:PRO:HD2	0.43	2.13	8	1
1:B:10:DT:OP2	2:A:63:TYR:CE1	0.43	2.71	9	1
2:A:15:PHE:CZ	2:A:51:ASP:OD1	0.43	2.72	9	1
2:A:37:CYS:HB2	2:A:47:PHE:CE1	0.43	2.49	1	1
2:A:38:SER:N	2:A:46:SER:O	0.43	2.52	1	1
1:B:10:DT:C3'	1:B:10:DT:C6	0.43	3.02	2	1
2:A:51:ASP:OD1	2:A:52:PHE:N	0.43	2.52	2	1
2:A:13:ILE:HD12	2:A:30:MET:SD	0.43	2.54	3	1
2:A:146:PRO:O	2:A:147:HIS:CB	0.43	2.66	3	1
1:B:4:DT:H4'	2:A:44:PHE:CE2	0.43	2.49	5	1
2:A:91:THR:O	2:A:95:LYS:HE3	0.43	2.14	5	1
2:A:187:ARG:HG2	2:A:188:PHE:N	0.43	2.29	5	1
2:A:61:TYR:O	2:A:62:LEU:C	0.43	2.60	6	2
2:A:14:GLU:O	2:A:15:PHE:HB2	0.43	2.13	7	1
2:A:100:PHE:HB3	2:A:102:ASN:ND2	0.43	2.29	8	1
1:B:5:DG:OP2	2:A:83:ILE:HG12	0.42	2.13	1	1
1:B:5:DG:OP1	2:A:83:ILE:HG12	0.42	2.13	1	1
1:B:11:DG:C2'	2:A:70:TYR:CD2	0.42	3.02	1	1
2:A:150:ILE:HG23	2:A:151:SER:H	0.42	1.73	1	1
2:A:96:LEU:O	2:A:100:PHE:N	0.42	2.51	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:4:DT:C1'	2:A:44:PHE:HD2	0.42	2.26	4	1
2:A:13:ILE:O	2:A:14:GLU:HB2	0.42	2.13	4	1
2:A:127:LYS:O	2:A:137:ALA:HA	0.42	2.14	10	3
1:B:7:DG:N7	2:A:81:LYS:HE3	0.42	2.29	7	1
2:A:145:VAL:HG11	2:A:150:ILE:HD12	0.42	1.91	8	1
2:A:20:LEU:HD12	2:A:135:LEU:HD23	0.42	1.90	9	1
2:A:181:TYR:O	2:A:182:PHE:C	0.42	2.61	10	2
2:A:75:GLU:CD	2:A:78:GLU:OE1	0.42	2.62	10	1
2:A:127:LYS:HB3	2:A:138:ILE:HG12	0.42	1.90	10	1
1:B:5:DG:N2	2:A:81:LYS:HD2	0.42	2.28	1	1
1:B:5:DG:O4'	1:B:6:DG:O5'	0.42	2.37	1	1
1:B:2:DT:C4'	1:B:3:DG:N7	0.42	2.83	2	1
2:A:52:PHE:O	2:A:53:THR:CG2	0.42	2.62	3	1
2:A:62:LEU:O	2:A:65:ARG:HB3	0.42	2.14	3	1
1:B:5:DG:O6	2:A:136:ASN:HA	0.42	2.14	7	2
1:B:2:DT:O4'	1:B:3:DG:OP1	0.42	2.37	6	1
1:B:9:DG:C8	1:B:9:DG:OP1	0.42	2.72	6	1
1:B:2:DT:C5	1:B:3:DG:C6	0.42	3.07	7	1
1:B:2:DT:C1'	1:B:3:DG:O4'	0.42	2.59	7	1
2:A:15:PHE:CB	2:A:53:THR:HB	0.42	2.44	7	1
2:A:20:LEU:HD21	2:A:25:THR:CA	0.42	2.42	9	1
2:A:94:SER:OG	2:A:95:LYS:N	0.42	2.52	9	1
2:A:102:ASN:CG	2:A:106:ASP:HB3	0.42	2.39	9	1
2:A:117:GLN:HA	2:A:185:TYR:CE2	0.42	2.48	9	1
2:A:178:ILE:CD1	2:A:185:TYR:CZ	0.42	3.02	10	1
1:B:9:DG:C5'	1:B:10:DT:C7	0.42	2.98	1	1
1:B:9:DG:C4'	1:B:10:DT:H71	0.42	2.42	1	1
2:A:24:GLU:OE1	2:A:26:LYS:HE2	0.42	2.14	1	1
2:A:62:LEU:O	2:A:62:LEU:HD22	0.42	2.14	1	1
2:A:122:CYS:HB2	2:A:143:GLU:O	0.42	2.14	2	1
2:A:48:VAL:CG2	2:A:81:LYS:HB2	0.42	2.45	3	1
2:A:120:ILE:O	2:A:121:VAL:HB	0.42	2.14	3	2
2:A:14:GLU:OE1	2:A:161:HIS:ND1	0.42	2.53	5	1
2:A:48:VAL:HA	2:A:80:PHE:O	0.42	2.14	6	1
1:B:2:DT:C6	1:B:3:DG:C5	0.42	3.07	7	1
2:A:22:THR:HA	2:A:130:MET:HG3	0.42	1.91	7	1
2:A:91:THR:O	2:A:95:LYS:HG3	0.42	2.13	7	1
2:A:154:ALA:O	2:A:155:SER:O	0.42	2.36	8	1
2:A:87:ASN:OD1	2:A:88:GLN:NE2	0.42	2.52	9	1
1:B:3:DG:O3'	1:B:4:DT:H3'	0.42	2.13	1	1
2:A:15:PHE:CD1	2:A:30:MET:HE1	0.42	2.49	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:104:LEU:O	2:A:105:ARG:C	0.42	2.63	2	1
2:A:44:PHE:CG	2:A:83:ILE:HB	0.42	2.49	3	1
2:A:67:LEU:CD1	2:A:74:LEU:HG	0.42	2.45	5	2
2:A:168:ARG:NH1	2:A:172:ARG:NH1	0.42	2.67	5	1
1:B:8:DT:H4'	2:A:61:TYR:CE2	0.42	2.50	6	1
2:A:180:ARG:CD	2:A:180:ARG:N	0.42	2.79	6	1
2:A:74:LEU:HD13	2:A:78:GLU:CB	0.42	2.43	8	1
2:A:143:GLU:OE1	2:A:143:GLU:C	0.42	2.62	8	1
2:A:68:ILE:CD1	2:A:177:ALA:HB1	0.42	2.44	9	1
2:A:29:THR:HG23	2:A:124:MET:C	0.42	2.39	10	1
2:A:13:ILE:HB	2:A:17:GLN:HB3	0.42	1.90	2	1
2:A:80:PHE:CZ	2:A:126:ILE:CD1	0.42	3.03	2	1
2:A:43:ALA:C	2:A:44:PHE:CD2	0.42	2.97	4	1
1:B:8:DT:C7	1:B:8:DT:P	0.42	3.07	5	1
1:B:8:DT:C2'	2:A:61:TYR:CE1	0.42	3.02	5	1
2:A:180:ARG:N	2:A:180:ARG:HD3	0.42	2.29	6	1
1:B:1:DG:H2'	2:A:25:THR:CG2	0.42	2.45	1	1
1:B:9:DG:H1'	1:B:10:DT:H3'	0.42	1.91	2	1
2:A:92:PHE:HE2	2:A:104:LEU:HD21	0.42	1.74	2	1
2:A:143:GLU:OE2	2:A:153:ILE:HG23	0.42	2.14	2	1
2:A:21:ASP:N	2:A:24:GLU:HB2	0.42	2.30	3	1
2:A:126:ILE:HG22	2:A:128:VAL:HG13	0.42	1.91	3	1
2:A:156:PRO:O	2:A:157:SER:HB2	0.42	2.14	3	1
2:A:13:ILE:HG12	2:A:28:ILE:CG2	0.42	2.45	4	1
2:A:129:LYS:HG3	2:A:136:ASN:CB	0.42	2.44	5	1
1:B:4:DT:C3'	2:A:83:ILE:HD12	0.42	2.44	6	1
2:A:16:CYS:HB2	2:A:53:THR:HG22	0.42	1.91	7	1
2:A:124:MET:HA	2:A:141:GLU:CG	0.42	2.44	8	1
2:A:52:PHE:C	2:A:52:PHE:CD1	0.42	2.96	9	1
2:A:35:VAL:HG11	2:A:65:ARG:O	0.42	2.15	3	1
2:A:18:LEU:HD12	2:A:57:ILE:HG13	0.42	1.91	4	1
2:A:166:TYR:O	2:A:170:PHE:CD2	0.42	2.73	4	1
2:A:13:ILE:HB	2:A:17:GLN:C	0.42	2.39	10	3
2:A:123:LYS:NZ	2:A:153:ILE:O	0.42	2.42	5	1
2:A:62:LEU:HD13	2:A:79:GLY:O	0.42	2.15	6	1
1:B:5:DG:O4'	1:B:6:DG:C5'	0.42	2.67	9	1
2:A:31:PHE:CD1	2:A:31:PHE:N	0.42	2.87	10	1
2:A:35:VAL:HB	2:A:48:VAL:O	0.42	2.14	2	3
1:B:5:DG:O4'	2:A:136:ASN:OD1	0.42	2.37	3	1
2:A:25:THR:HG22	2:A:127:LYS:HZ1	0.42	1.74	3	1
2:A:186:ARG:O	2:A:189:PHE:HB2	0.42	2.14	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:3:DG:OP2	2:A:138:ILE:HD13	0.42	2.15	4	1
1:B:10:DT:C2'	1:B:11:DG:O4'	0.42	2.56	4	1
2:A:155:SER:OG	2:A:156:PRO:HD2	0.42	2.15	4	1
2:A:182:PHE:C	2:A:191:ILE:HD11	0.42	2.40	4	1
2:A:57:ILE:CG2	2:A:135:LEU:HB2	0.42	2.45	5	1
2:A:127:LYS:HB3	2:A:138:ILE:HG13	0.42	1.91	7	1
2:A:181:TYR:O	2:A:185:TYR:N	0.42	2.49	8	2
2:A:75:GLU:HG3	2:A:77:ASN:CB	0.42	2.45	8	1
1:B:2:DT:C2'	1:B:3:DG:C5'	0.42	2.97	9	1
2:A:93:ASP:HA	2:A:96:LEU:HB2	0.42	1.91	9	1
2:A:50:SER:HB2	2:A:74:LEU:CD1	0.42	2.45	10	1
1:B:3:DG:OP2	2:A:138:ILE:CD1	0.42	2.68	3	1
2:A:14:GLU:HA	2:A:30:MET:SD	0.42	2.55	3	1
2:A:36:SER:OG	2:A:64:ASP:HB2	0.42	2.15	4	1
1:B:4:DT:C4'	1:B:5:DG:O5'	0.42	2.68	5	1
2:A:183:GLU:HA	2:A:186:ARG:CG	0.42	2.44	5	1
2:A:129:LYS:HE2	2:A:136:ASN:CG	0.42	2.40	6	1
2:A:189:PHE:CD1	2:A:189:PHE:O	0.42	2.72	7	1
1:B:8:DT:OP2	1:B:9:DG:N7	0.42	2.53	9	1
2:A:35:VAL:HG11	2:A:74:LEU:CD1	0.42	2.45	9	1
1:B:10:DT:C4'	2:A:66:TYR:CD2	0.42	3.03	1	1
2:A:94:SER:O	2:A:98:LYS:HG2	0.42	2.15	1	2
2:A:52:PHE:C	2:A:53:THR:OG1	0.42	2.60	2	2
1:B:5:DG:H3'	2:A:131:TYR:OH	0.42	2.15	4	1
2:A:62:LEU:HD11	2:A:79:GLY:C	0.42	2.40	8	1
2:A:59:GLN:O	2:A:134:LYS:HG2	0.41	2.15	1	1
2:A:65:ARG:C	2:A:66:TYR:CG	0.41	2.95	2	1
2:A:183:GLU:C	2:A:186:ARG:HG2	0.41	2.39	2	1
1:B:10:DT:OP2	2:A:66:TYR:CD1	0.41	2.73	6	1
2:A:47:PHE:CE2	2:A:84:MET:HE3	0.41	2.50	6	1
2:A:45:ILE:HG13	2:A:89:PHE:HB2	0.41	1.92	7	1
2:A:141:GLU:O	2:A:142:CYS:HB3	0.41	2.15	8	1
2:A:13:ILE:HA	2:A:17:GLN:HB3	0.41	1.91	10	1
1:B:7:DG:O3'	1:B:8:DT:C5	0.41	2.74	9	4
2:A:136:ASN:C	2:A:136:ASN:ND2	0.41	2.77	3	1
2:A:15:PHE:CE1	2:A:55:ASN:ND2	0.41	2.89	5	1
1:B:1:DG:C4'	2:A:27:TYR:CE2	0.41	3.03	6	1
1:B:7:DG:N9	2:A:63:TYR:HD2	0.41	2.13	6	1
2:A:28:ILE:HD12	2:A:30:MET:CG	0.41	2.45	6	1
2:A:74:LEU:HD12	2:A:75:GLU:N	0.41	2.30	7	1
1:B:8:DT:OP2	1:B:9:DG:C5	0.41	2.73	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:18:LEU:HD12	2:A:57:ILE:CG2	0.41	2.45	10	1
2:A:12:THR:CB	2:A:29:THR:HB	0.41	2.45	3	1
2:A:34:LEU:N	2:A:49:PHE:CE1	0.41	2.88	3	1
2:A:39:PHE:CD1	2:A:39:PHE:C	0.41	2.98	4	2
2:A:52:PHE:CE1	2:A:172:ARG:HG3	0.41	2.49	4	1
1:B:1:DG:H5'	1:B:2:DT:OP2	0.41	2.15	7	1
1:B:2:DT:C4	1:B:3:DG:C2	0.41	3.09	7	1
2:A:174:GLY:C	2:A:176:SER:N	0.41	2.78	8	1
2:A:94:SER:HA	2:A:97:ARG:CD	0.41	2.45	10	1
2:A:15:PHE:C	2:A:17:GLN:N	0.41	2.77	2	1
2:A:13:ILE:HD12	2:A:13:ILE:C	0.41	2.40	3	1
2:A:135:LEU:HG	2:A:136:ASN:N	0.41	2.30	3	1
2:A:31:PHE:CE1	2:A:123:LYS:HB3	0.41	2.50	4	1
2:A:123:LYS:O	2:A:123:LYS:HG3	0.41	2.14	4	1
2:A:144:PRO:C	2:A:145:VAL:HG23	0.41	2.40	7	1
1:B:5:DG:O5'	2:A:83:ILE:HD11	0.41	2.15	8	1
1:B:6:DG:H2'	1:B:7:DG:C2	0.41	2.51	10	1
2:A:166:TYR:O	2:A:170:PHE:CD1	0.41	2.73	10	1
1:B:5:DG:C2'	2:A:131:TYR:HD2	0.41	2.28	2	1
2:A:118:TYR:CD1	2:A:184:GLU:O	0.41	2.73	2	1
2:A:92:PHE:CD1	2:A:92:PHE:O	0.41	2.73	5	1
2:A:189:PHE:CG	2:A:190:PRO:CD	0.41	3.03	6	1
1:B:4:DT:O2	2:A:43:ALA:HA	0.41	2.15	7	2
2:A:83:ILE:HG12	2:A:137:ALA:O	0.41	2.16	8	1
1:B:3:DG:H2'	1:B:4:DT:H72	0.41	1.91	9	1
2:A:102:ASN:CG	2:A:106:ASP:HB2	0.41	2.41	9	1
2:A:77:ASN:C	2:A:78:GLU:OE1	0.41	2.64	10	1
1:B:1:DG:O4'	2:A:27:TYR:HE1	0.41	1.98	1	1
1:B:3:DG:H1'	1:B:4:DT:OP1	0.41	2.16	6	2
1:B:1:DG:H4'	2:A:27:TYR:CZ	0.41	2.50	3	1
2:A:25:THR:O	2:A:26:LYS:HG3	0.41	2.16	4	1
2:A:51:ASP:O	2:A:52:PHE:C	0.41	2.62	4	1
2:A:104:LEU:HD12	2:A:107:LEU:CD1	0.41	2.45	7	1
2:A:130:MET:O	2:A:131:TYR:C	0.41	2.62	9	1
1:B:11:DG:C2'	2:A:70:TYR:HE2	0.41	2.23	1	1
2:A:50:SER:OG	2:A:65:ARG:HD2	0.41	2.15	1	1
1:B:7:DG:H21	2:A:41:LYS:NZ	0.41	2.11	5	1
2:A:66:TYR:N	2:A:66:TYR:CD1	0.41	2.87	5	1
2:A:37:CYS:CB	2:A:104:LEU:HD23	0.41	2.46	7	1
1:B:4:DT:C5'	1:B:5:DG:H3'	0.41	2.45	9	1
1:B:10:DT:OP1	2:A:73:LYS:HG2	0.41	2.15	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:62:LEU:CD2	2:A:80:PHE:CA	0.41	2.99	1	1
1:B:2:DT:O4'	1:B:3:DG:N7	0.41	2.54	2	1
2:A:38:SER:OG	2:A:46:SER:OG	0.41	2.35	2	1
2:A:66:TYR:O	2:A:67:LEU:HB2	0.41	2.16	4	1
1:B:2:DT:N3	1:B:3:DG:C2	0.41	2.89	7	1
2:A:21:ASP:C	2:A:24:GLU:HB2	0.41	2.41	7	1
2:A:65:ARG:O	2:A:65:ARG:HG3	0.41	2.16	1	1
2:A:63:TYR:O	2:A:65:ARG:HG2	0.41	2.15	2	1
2:A:143:GLU:O	2:A:143:GLU:HG2	0.41	2.15	2	1
1:B:8:DT:H4'	2:A:63:TYR:CD1	0.41	2.49	3	1
2:A:10:ASP:O	2:A:10:ASP:CG	0.41	2.64	3	1
2:A:12:THR:OG1	2:A:29:THR:O	0.41	2.32	3	1
2:A:35:VAL:CG2	2:A:50:SER:HB3	0.41	2.45	3	1
2:A:20:LEU:HD23	2:A:26:LYS:HE2	0.41	1.91	5	1
2:A:25:THR:HG23	2:A:127:LYS:CE	0.41	2.46	7	1
2:A:49:PHE:O	2:A:79:GLY:HA3	0.41	2.16	7	1
2:A:47:PHE:HB2	2:A:82:ALA:O	0.41	2.16	8	1
2:A:86:LYS:HA	2:A:89:PHE:HB3	0.41	1.93	8	1
2:A:169:ALA:O	2:A:173:ILE:HD12	0.41	2.16	8	1
2:A:178:ILE:HG22	2:A:182:PHE:CD1	0.41	2.50	8	1
2:A:180:ARG:HD3	2:A:180:ARG:N	0.41	2.30	8	1
2:A:19:GLY:O	2:A:20:LEU:C	0.41	2.64	9	1
1:B:7:DG:N2	2:A:41:LYS:HE2	0.41	2.31	10	1
2:A:64:ASP:C	2:A:65:ARG:CG	0.41	2.94	1	1
2:A:125:ASN:O	2:A:140:ARG:CB	0.41	2.70	2	1
1:B:3:DG:OP1	2:A:129:LYS:HD3	0.41	2.16	4	1
2:A:18:LEU:HD12	2:A:57:ILE:CG1	0.41	2.46	4	1
1:B:2:DT:O2	1:B:3:DG:C6	0.41	2.74	5	1
2:A:67:LEU:CD1	2:A:74:LEU:CG	0.41	2.99	5	1
2:A:36:SER:CB	2:A:64:ASP:C	0.41	2.94	6	1
2:A:57:ILE:HG22	2:A:59:GLN:N	0.41	2.31	8	2
1:B:2:DT:N3	1:B:3:DG:N2	0.41	2.69	7	1
2:A:127:LYS:CG	2:A:138:ILE:HD11	0.41	2.45	7	1
2:A:169:ALA:O	2:A:173:ILE:HG13	0.41	2.16	7	1
2:A:82:ALA:HB1	2:A:139:VAL:CG1	0.41	2.45	9	1
2:A:168:ARG:NH1	2:A:169:ALA:CA	0.41	2.84	9	1
2:A:141:GLU:O	2:A:142:CYS:CB	0.40	2.68	1	2
2:A:83:ILE:HG13	2:A:137:ALA:O	0.40	2.16	3	1
1:B:2:DT:C1'	1:B:3:DG:N7	0.40	2.82	4	1
2:A:10:ASP:OD1	2:A:27:TYR:O	0.40	2.39	4	1
2:A:118:TYR:OH	2:A:184:GLU:OE2	0.40	2.38	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:48:VAL:HG23	2:A:64:ASP:HB2	0.40	1.92	5	1
2:A:128:VAL:HA	2:A:136:ASN:O	0.40	2.15	5	1
2:A:21:ASP:CA	2:A:24:GLU:HB2	0.40	2.46	6	1
2:A:127:LYS:O	2:A:127:LYS:HG3	0.40	2.16	7	1
2:A:160:GLU:HG2	2:A:161:HIS:N	0.40	2.32	7	1
2:A:55:ASN:O	2:A:77:ASN:OD1	0.40	2.39	8	1
2:A:155:SER:OG	2:A:156:PRO:CD	0.40	2.69	10	1
1:B:9:DG:OP2	2:A:61:TYR:CE1	0.40	2.74	3	2
2:A:104:LEU:O	2:A:107:LEU:HB2	0.40	2.16	2	1
2:A:176:SER:O	2:A:179:SER:OG	0.40	2.34	7	1
1:B:1:DG:C4'	2:A:27:TYR:HE1	0.40	2.28	3	1
2:A:93:ASP:O	2:A:97:ARG:HG3	0.40	2.16	3	1
2:A:37:CYS:SG	2:A:104:LEU:HD23	0.40	2.55	4	1
2:A:55:ASN:HB2	2:A:77:ASN:HA	0.40	1.92	4	1
2:A:65:ARG:C	2:A:67:LEU:N	0.40	2.78	6	1
2:A:103:GLY:O	2:A:107:LEU:HG	0.40	2.17	6	1
2:A:69:ASP:OD1	2:A:69:ASP:N	0.40	2.55	7	1
1:B:4:DT:C3'	2:A:83:ILE:HD13	0.40	2.45	9	1
1:B:10:DT:H4'	2:A:66:TYR:CB	0.40	2.46	1	1
2:A:58:VAL:O	2:A:59:GLN:HG3	0.40	2.15	1	1
1:B:5:DG:O5'	2:A:83:ILE:CD1	0.40	2.69	2	1
2:A:49:PHE:CD1	2:A:49:PHE:C	0.40	3.00	2	1
2:A:121:VAL:CG1	2:A:162:LEU:HD21	0.40	2.47	2	1
2:A:13:ILE:HA	2:A:17:GLN:CB	0.40	2.46	4	1
2:A:17:GLN:OE1	2:A:17:GLN:HA	0.40	2.16	4	1
2:A:32:GLY:HA3	2:A:50:SER:O	0.40	2.16	4	1
2:A:134:LYS:N	2:A:134:LYS:HD3	0.40	2.31	4	1
1:B:5:DG:C2'	2:A:131:TYR:HE1	0.40	2.30	5	1
2:A:62:LEU:CD1	2:A:80:PHE:HA	0.40	2.46	5	1
2:A:13:ILE:CA	2:A:17:GLN:HB3	0.40	2.47	10	1
2:A:88:GLN:NE2	2:A:140:ARG:O	0.40	2.53	10	1
2:A:92:PHE:HB2	2:A:142:CYS:CB	0.40	2.47	1	1
2:A:59:GLN:O	2:A:134:LYS:HB2	0.40	2.17	2	1
2:A:155:SER:N	2:A:158:GLN:NE2	0.40	2.69	2	1
2:A:160:GLU:O	2:A:161:HIS:C	0.40	2.64	2	1
2:A:53:THR:O	2:A:78:GLU:OE1	0.40	2.40	3	1
2:A:178:ILE:O	2:A:182:PHE:HB3	0.40	2.16	5	1
1:B:2:DT:H1'	1:B:3:DG:C1'	0.40	2.46	7	1
2:A:15:PHE:HB2	2:A:53:THR:HB	0.40	1.93	7	1
2:A:87:ASN:HA	2:A:90:GLU:CG	0.40	2.46	8	1
2:A:180:ARG:N	2:A:180:ARG:CD	0.40	2.83	8	1

6.3 Torsion angles

6.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all 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	
2	A	175/199 (88%)	131±4 (75±2%)	27±4 (15±2%)	17±3 (10±2%)	1	10
All	All	1750/1990 (88%)	1308 (75%)	270 (15%)	172 (10%)	1	10

All 43 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
2	A	18	LEU	10
2	A	20	LEU	10
2	A	44	PHE	10
2	A	25	THR	9
2	A	59	GLN	9
2	A	15	PHE	8
2	A	67	LEU	8
2	A	146	PRO	8
2	A	155	SER	8
2	A	24	GLU	7
2	A	187	ARG	7
2	A	142	CYS	6
2	A	22	THR	5
2	A	68	ILE	5
2	A	13	ILE	4
2	A	66	TYR	4
2	A	63	TYR	4
2	A	51	ASP	3
2	A	53	THR	3
2	A	73	LYS	3
2	A	74	LEU	3
2	A	101	ASN	3
2	A	14	GLU	3
2	A	64	ASP	3
2	A	19	GLY	3
2	A	133	GLY	2
2	A	147	HIS	2

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Mol	Chain	Res	Type	Models (Total)
2	A	121	VAL	2
2	A	57	ILE	2
2	A	108	GLN	2
2	A	119	GLY	2
2	A	65	ARG	2
2	A	189	PHE	2
2	A	10	ASP	1
2	A	34	LEU	1
2	A	52	PHE	1
2	A	188	PHE	1
2	A	58	VAL	1
2	A	150	ILE	1
2	A	11	PRO	1
2	A	46	SER	1
2	A	152	SER	1
2	A	61	TYR	1

6.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all 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	
2	A	163/182 (90%)	112±4 (69±2%)	51±4 (31±2%)	1	15
All	All	1630/1820 (90%)	1120 (69%)	510 (31%)	1	15

All 128 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)
2	A	18	LEU	10
2	A	20	LEU	10
2	A	24	GLU	10
2	A	75	GLU	10
2	A	134	LYS	10
2	A	150	ILE	10
2	A	162	LEU	10
2	A	25	THR	9
2	A	71	GLU	9

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Mol	Chain	Res	Type	Models (Total)
2	A	88	GLN	9
2	A	105	ARG	9
2	A	155	SER	9
2	A	130	MET	9
2	A	21	ASP	8
2	A	34	LEU	8
2	A	93	ASP	8
2	A	127	LYS	8
2	A	148	SER	8
2	A	14	GLU	7
2	A	38	SER	7
2	A	46	SER	7
2	A	54	LYS	7
2	A	57	ILE	7
2	A	94	SER	7
2	A	12	THR	7
2	A	53	THR	7
2	A	67	LEU	7
2	A	66	TYR	6
2	A	152	SER	6
2	A	179	SER	6
2	A	185	TYR	6
2	A	59	GLN	6
2	A	90	GLU	6
2	A	95	LYS	6
2	A	106	ASP	6
2	A	168	ARG	6
2	A	56	ASP	5
2	A	129	LYS	5
2	A	136	ASN	5
2	A	172	ARG	5
2	A	157	SER	5
2	A	16	CYS	5
2	A	73	LYS	5
2	A	104	LEU	5
2	A	140	ARG	5
2	A	151	SER	5
2	A	100	PHE	5
2	A	62	LEU	4
2	A	123	LYS	4
2	A	124	MET	4
2	A	161	HIS	4

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Mol	Chain	Res	Type	Models (Total)
2	A	189	PHE	4
2	A	65	ARG	4
2	A	74	LEU	4
2	A	143	GLU	4
2	A	39	PHE	4
2	A	116	SER	4
2	A	81	LYS	4
2	A	26	LYS	3
2	A	44	PHE	3
2	A	126	ILE	3
2	A	188	PHE	3
2	A	64	ASP	3
2	A	141	GLU	3
2	A	160	GLU	3
2	A	167	GLN	3
2	A	170	PHE	3
2	A	50	SER	3
2	A	97	ARG	3
2	A	115	LEU	3
2	A	28	ILE	3
2	A	147	HIS	3
2	A	158	GLN	3
2	A	78	GLU	3
2	A	165	PHE	3
2	A	36	SER	3
2	A	35	VAL	2
2	A	41	LYS	2
2	A	55	ASN	2
2	A	63	TYR	2
2	A	102	ASN	2
2	A	171	LYS	2
2	A	175	GLU	2
2	A	183	GLU	2
2	A	187	ARG	2
2	A	15	PHE	2
2	A	135	LEU	2
2	A	13	ILE	2
2	A	76	LEU	2
2	A	159	CYS	2
2	A	182	PHE	2
2	A	10	ASP	2
2	A	31	PHE	2

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Mol	Chain	Res	Type	Models (Total)
2	A	86	LYS	2
2	A	87	ASN	2
2	A	89	PHE	2
2	A	138	ILE	2
2	A	23	PHE	2
2	A	184	GLU	2
2	A	176	SER	2
2	A	27	TYR	1
2	A	142	CYS	1
2	A	173	ILE	1
2	A	45	ILE	1
2	A	125	ASN	1
2	A	191	ILE	1
2	A	22	THR	1
2	A	51	ASP	1
2	A	84	MET	1
2	A	85	TYR	1
2	A	96	LEU	1
2	A	121	VAL	1
2	A	91	THR	1
2	A	92	PHE	1
2	A	131	TYR	1
2	A	186	ARG	1
2	A	17	GLN	1
2	A	40	ASP	1
2	A	68	ILE	1
2	A	30	MET	1
2	A	52	PHE	1
2	A	61	TYR	1
2	A	47	PHE	1
2	A	48	VAL	1
2	A	60	ASN	1
2	A	139	VAL	1
2	A	149	GLN	1
2	A	72	ASN	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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 oligosaccharides 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

No chemical shift data were provided