



Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 01:56 PM UTC

PDB ID : 7BHO / pdb_00007bho
EMDB ID : EMD-12188
Title : DNA origami signpost designed model
Authors : Silvester, E.; Vollmer, B.; Prazak, V.; Vasishtan, D.; Machala, E.A.; Whittle, C.; Black, S.; Bath, J.; Turberfield, A.J.; Gruenewald, K.; Baker, L.A.
Deposited on : 2021-01-11
Resolution : 36.44 Å(reported)

This is a Full wwPDB EM 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/EMValidationReportHelp>
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:

EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

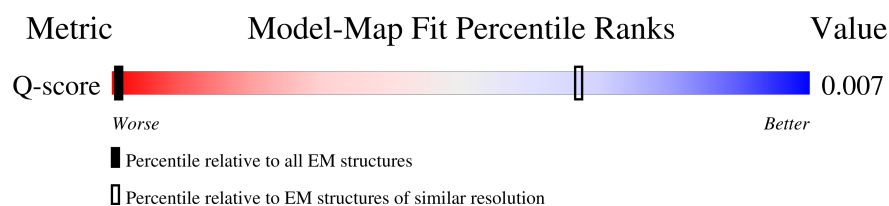
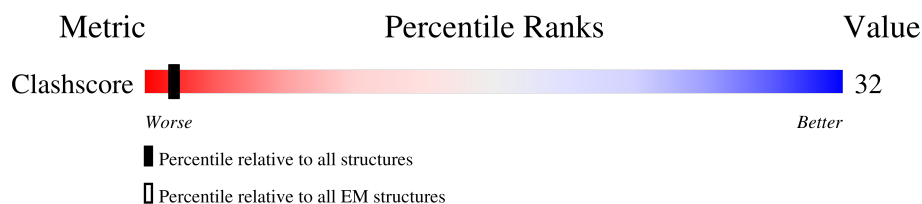
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 36.44 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Q-score	-	25397	3 (36.00 - 36.44)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. 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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A1	57	
2	A2	31	
3	A3	23	
4	A4	28	
5	A5	42	
6	A6	26	

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Mol	Chain	Length	Quality of chain
7	A7	37	
8	A8	24	
9	A9	19	
10	AA	23	
11	AB	7248	
12	AC	18	
13	AD	40	
14	B1	42	
15	B2	18	
16	B3	18	
17	B4	18	
18	B5	38	
19	B6	24	
20	B7	18	
21	B8	27	
22	B9	54	
23	BA	32	
24	BC	37	
25	BD	19	
26	C1	27	
27	C2	18	
28	C3	21	
29	C5	42	
30	C6	45	
31	C7	33	

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Mol	Chain	Length	Quality of chain
32	C8	54	
33	C9	27	
34	CA	19	
35	CC	31	
36	CD	26	
37	D1	42	
38	D2	18	
39	D3	34	
40	D5	21	
41	D6	46	
42	D7	21	
43	D8	46	
44	D9	30	
45	DA	23	
46	DC	18	
47	DD	42	
48	E1	33	
49	E2	43	
50	E3	19	
51	E5	30	
52	E6	37	
53	E7	24	
54	E8	33	
55	E9	41	
56	EA	19	

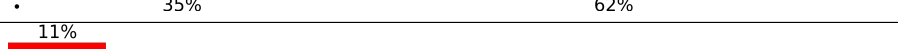
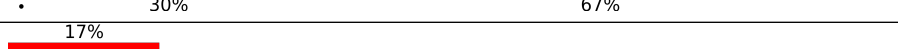
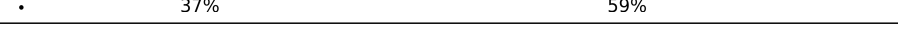
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Mol	Chain	Length	Quality of chain
57	EC	23	
58	ED	38	
59	F1	20	
60	F2	35	
61	F3	26	
62	F5	48	
63	F6	18	
64	F7	29	
65	F8	18	
66	F9	18	
67	FA	33	
68	FC	19	
69	FD	47	
70	G1	19	
71	G2	18	
72	G3	28	
73	G5	24	
74	G6	33	
75	G7	29	
76	G8	23	
77	G9	19	
78	GA	19	
79	GC	26	
80	GD	18	
81	H1	18	

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Mol	Chain	Length	Quality of chain
82	H2	51	
83	H3	42	
84	H5	40	
85	H6	35	
86	H7	20	
87	H8	21	
88	H9	31	
89	HA	30	
90	HC	24	
91	HD	24	
92	I1	21	
93	I2	49	
94	I3	59	
95	I5	42	
96	I6	19	
97	I7	30	
98	I8	40	
99	I9	30	
100	IA	19	
101	IC	23	
102	ID	33	
103	J1	28	
104	J2	42	
105	J3	30	
106	J5	37	

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Mol	Chain	Length	Quality of chain
107	J6	44	
108	J7	56	
109	J8	54	
110	J9	18	
111	JA	19	
112	JC	26	
113	JD	38	
114	K1	45	
115	K2	33	
116	K3	18	
117	K5	49	
118	K6	18	
119	K7	43	
120	K8	23	
121	K9	26	
122	KA	51	
123	KC	24	
124	KD	23	
125	L1	56	
126	L2	56	
127	L3	19	
128	L5	23	
129	L6	24	
130	L7	60	
131	L8	24	

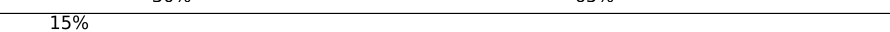
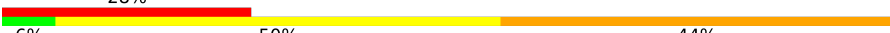
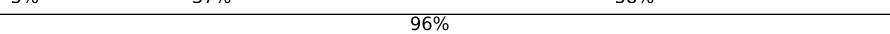
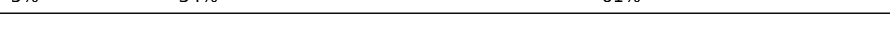
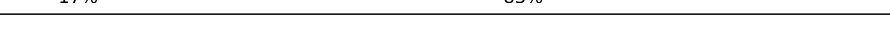
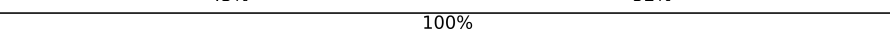
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Mol	Chain	Length	Quality of chain
132	L9	19	
133	LA	22	
134	LC	18	
135	LD	18	
136	M2	21	
137	M3	35	
138	M5	42	
139	M6	25	
140	M7	26	
141	M8	26	
142	M9	23	
143	MA	44	
144	MC	23	
145	MD	58	
146	N2	24	
147	N3	35	
148	N5	31	
149	N6	51	
150	N7	23	
151	N8	21	
152	N9	52	
153	NA	19	
154	NC	38	
155	ND	20	
156	O2	60	

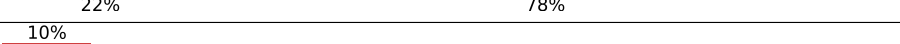
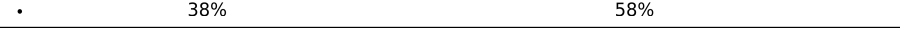
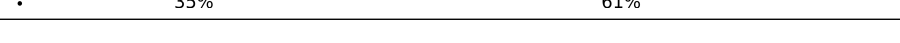
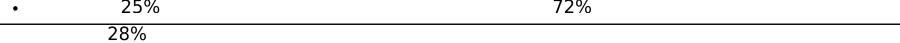
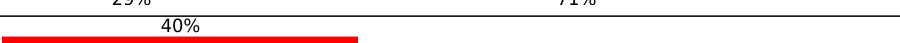
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Mol	Chain	Length	Quality of chain
157	O3	24	
158	O5	49	
159	O6	23	
160	O7	52	
161	O8	58	
162	O9	18	
163	OA	19	
164	OC	24	
165	OD	58	
166	P2	31	
167	P3	38	
168	P5	18	
169	P6	18	
170	P7	18	
171	P8	24	
172	P9	24	
173	PA	38	
174	PC	23	
175	PD	23	
176	Q2	19	
177	Q3	23	
178	Q5	42	
179	Q7	23	
180	Q8	24	
181	Q9	39	

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Mol	Chain	Length	Quality of chain
182	QA	28	
183	QC	23	
184	QD	31	
185	R2	24	
186	R3	18	
187	R5	42	
188	R7	32	
189	R8	40	
190	R9	46	
191	RA	27	
192	RC	32	
193	RD	18	
194	S2	30	
195	S3	28	
196	S5	32	
197	S7	24	
198	S8	40	
199	S9	23	
200	SA	24	
201	SC	19	
202	SD	26	
203	T2	24	
204	T3	45	
205	T5	24	
206	T7	56	

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Mol	Chain	Length	Quality of chain
207	T8	24	
208	T9	18	
209	TA	42	
210	TC	26	
211	TD	42	
212	U2	24	
213	U3	26	
214	U5	42	
215	U7	23	
216	U8	24	
217	U9	24	
218	UA	19	
219	UC	32	
220	UD	23	
221	V2	27	
222	V3	25	
223	V5	41	
224	V7	18	
225	V8	22	
226	V9	34	
227	VA	29	
228	VC	40	
229	VD	21	
230	W3	49	
231	W5	31	

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Mol	Chain	Length	Quality of chain
232	W7	23	
233	W8	21	
234	W9	19	
235	WD	18	
236	X5	21	
237	X7	23	
238	X9	59	

2 Entry composition

There are 238 unique types of molecules in this entry. The entry contains 459340 atoms, of which 163115 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	A1	57	Total	C	H	N	O	P	0	0
			1803	556	637	227	326	57		

- Molecule 2 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
2	A2	31	Total	C	H	N	O	P	0	0
			986	304	350	116	185	31		

- Molecule 3 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
3	A3	23	Total	C	H	N	O	P	0	0
			732	225	259	87	138	23		

- Molecule 4 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
4	A4	28	Total	C	H	N	O	P	0	0
			891	275	317	103	168	28		

- Molecule 5 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
5	A5	42	Total	C	H	N	O	P	0	0
			1339	413	478	148	258	42		

- Molecule 6 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
6	A6	26	Total	C	H	N	O	P	0	0
			826	254	291	103	152	26		

- Molecule 7 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
7	A7	37	Total	C	H	N	O	P	0	0
			1177	364	421	131	224	37		

- Molecule 8 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
8	A8	24	Total	C	H	N	O	P	0	0
			769	238	273	89	145	24		

- Molecule 9 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
9	A9	19	Total	C	H	N	O	P	0	0
			613	190	218	68	118	19		

- Molecule 10 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
10	AA	23	Total	C	H	N	O	P	0	0
			731	224	255	97	132	23		

- Molecule 11 is a DNA chain called DNA scaffold.

Mol	Chain	Residues	Atoms						AltConf	Trace
11	AB	7248	Total	C	H	N	O	P	0	0
			230412	70951	82147	25925	44141	7248		

- Molecule 12 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
12	AC	18	Total	C	H	N	O	P	0	0
			574	177	204	66	109	18		

- Molecule 13 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
13	AD	40	Total	C	H	N	O	P	0	0
			1278	394	452	152	240	40		

- Molecule 14 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
14	B1	42	Total	C	H	N	O	P	0	0
			1342	413	469	175	243	42		

- Molecule 15 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
15	B2	18	Total	C	H	N	O	P	0	0
			570	176	200	76	100	18		

- Molecule 16 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
16	B3	18	Total	C	H	N	O	P	0	0
			581	180	205	69	109	18		

- Molecule 17 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
17	B4	18	Total	C	H	N	O	P	0	0
			575	177	203	69	108	18		

- Molecule 18 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
18	B5	38	Total	C	H	N	O	P	0	0
			1206	371	427	145	225	38		

- Molecule 19 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
19	B6	24	Total	C	H	N	O	P	0	0
			766	237	272	90	143	24		

- Molecule 20 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
20	B7	18	Total	C	H	N	O	P	0	0
			567	174	204	60	111	18		

- Molecule 21 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
21	B8	27	Total	C	H	N	O	P	0	0
			860	266	309	91	167	27		

- Molecule 22 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
22	B9	54	Total	C	H	N	O	P	0	0
			1722	529	606	212	321	54		

- Molecule 23 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
23	BA	32	Total	C	H	N	O	P	0	0
			1020	314	362	118	194	32		

- Molecule 24 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
24	BC	37	Total	C	H	N	O	P	0	0
			1179	362	411	157	212	37		

- Molecule 25 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
25	BD	19	Total	C	H	N	O	P	0	0
			607	188	212	82	106	19		

- Molecule 26 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
26	C1	27	Total	C	H	N	O	P	0	0
			852	263	306	94	162	27		

- Molecule 27 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
27	C2	18	Total	C	H	N	O	P	0	0
			570	175	201	71	105	18		

- Molecule 28 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
28	C3	21	Total	C	H	N	O	P	0	0
			675	207	233	93	121	21		

- Molecule 29 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
29	C5	42	Total	C	H	N	O	P	0	0
			1344	416	470	178	238	42		

- Molecule 30 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
30	C6	45	Total	C	H	N	O	P	0	0
			1433	440	503	181	264	45		

- Molecule 31 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
31	C7	33	Total	C	H	N	O	P	0	0
			1055	326	377	115	204	33		

- Molecule 32 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
32	C8	54	Total	C	H	N	O	P	0	0
			1719	528	605	213	319	54		

- Molecule 33 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
33	C9	27	Total	C	H	N	O	P	0	0
			863	266	304	106	160	27		

- Molecule 34 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
34	CA	19	Total	C	H	N	O	P	0	0
			607	188	215	73	112	19		

- Molecule 35 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
35	CC	31	Total	C	H	N	O	P	0	0
			982	302	348	118	183	31		

- Molecule 36 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
36	CD	26	Total	C	H	N	O	P	0	0
			826	254	293	97	156	26		

- Molecule 37 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
37	D1	42	Total	C	H	N	O	P	0	0
			1314	402	469	153	248	42		

- Molecule 38 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
38	D2	18	Total	C	H	N	O	P	0	0
			567	173	198	76	102	18		

- Molecule 39 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
39	D3	34	Total	C	H	N	O	P	0	0
			1084	334	383	131	202	34		

- Molecule 40 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
40	D5	21	Total	C	H	N	O	P	0	0
			672	208	237	83	123	21		

- Molecule 41 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
41	D6	46	Total	C	H	N	O	P	0	0
			1461	450	517	177	271	46		

- Molecule 42 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
42	D7	21	Total	C	H	N	O	P	0	0
			672	206	235	85	125	21		

- Molecule 43 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
43	D8	46	Total	C	H	N	O	P	0	0
			1456	448	517	173	272	46		

- Molecule 44 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
44	D9	30	Total	C	H	N	O	P	0	0
			954	293	334	124	173	30		

- Molecule 45 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
45	DA	23	Total	C	H	N	O	P	0	0
			730	224	256	94	133	23		

- Molecule 46 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
46	DC	18	Total	C	H	N	O	P	0	0
			571	175	202	68	108	18		

- Molecule 47 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
47	DD	42	Total	C	H	N	O	P	0	0
			1328	408	467	171	240	42		

- Molecule 48 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
48	E1	33	Total	C	H	N	O	P	0	0
			1041	319	368	128	193	33		

- Molecule 49 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
49	E2	43	Total	C	H	N	O	P	0	0
			1367	421	486	158	259	43		

- Molecule 50 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
50	E3	19	Total	C	H	N	O	P	0	0
			605	187	213	77	109	19		

- Molecule 51 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
51	E5	30	Total	C	H	N	O	P	0	0
			958	295	340	110	183	30		

- Molecule 52 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
52	E6	37	Total	C	H	N	O	P	0	0
			1158	354	411	141	215	37		

- Molecule 53 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
53	E7	24	Total	C	H	N	O	P	0	0
			769	238	273	89	145	24		

- Molecule 54 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
54	E8	33	Total	C	H	N	O	P	0	0
			1044	322	378	104	207	33		

- Molecule 55 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
55	E9	41	Total	C	H	N	O	P	0	0
			1307	403	463	155	245	41		

- Molecule 56 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
56	EA	19	Total	C	H	N	O	P	0	0
			606	186	216	66	119	19		

- Molecule 57 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
57	EC	23	Total	C	H	N	O	P	0	0
			735	226	260	86	140	23		

- Molecule 58 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
58	ED	38	Total	C	H	N	O	P	0	0
			1206	371	427	145	225	38		

- Molecule 59 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
59	F1	20	Total	C	H	N	O	P	0	0
			627	192	223	75	117	20		

- Molecule 60 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
60	F2	35	Total	C	H	N	O	P	0	0
			1108	340	393	131	209	35		

- Molecule 61 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
61	F3	26	Total	C	H	N	O	P	0	0
			823	252	288	108	149	26		

- Molecule 62 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
62	F5	48	Total	C	H	N	O	P	0	0
			1519	470	547	163	291	48		

- Molecule 63 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
63	F6	18	Total	C	H	N	O	P	0	0
			573	176	199	79	101	18		

- Molecule 64 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
64	F7	29	Total	C	H	N	O	P	0	0
			925	286	328	110	172	29		

- Molecule 65 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
65	F8	18	Total	C	H	N	O	P	0	0
			567	174	201	69	105	18		

- Molecule 66 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
66	F9	18	Total	C	H	N	O	P	0	0
			575	177	201	75	104	18		

- Molecule 67 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
67	FA	33	Total	C	H	N	O	P	0	0
			1059	327	373	129	197	33		

- Molecule 68 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
68	FC	19	Total	C	H	N	O	P	0	0
			609	188	214	76	112	19		

- Molecule 69 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
69	FD	47	Total	C	H	N	O	P	0	0
			1495	461	523	199	265	47		

- Molecule 70 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
70	G1	19	Total	C	H	N	O	P	0	0
			602	185	213	73	112	19		

- Molecule 71 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
71	G2	18	Total	C	H	N	O	P	0	0
			568	175	200	74	101	18		

- Molecule 72 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
72	G3	28	Total	C	H	N	O	P	0	0
			888	273	317	99	171	28		

- Molecule 73 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
73	G5	24	Total	C	H	N	O	P	0	0
			760	233	268	94	141	24		

- Molecule 74 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
74	G6	33	Total	C	H	N	O	P	0	0
			1053	325	375	119	201	33		

- Molecule 75 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
75	G7	29	Total	C	H	N	O	P	0	0
			914	282	323	117	163	29		

- Molecule 76 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
76	G8	23	Total	C	H	N	O	P	0	0
			743	228	256	102	134	23		

- Molecule 77 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
77	G9	19	Total	C	H	N	O	P	0	0
			605	186	216	66	118	19		

- Molecule 78 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
78	GA	19	Total	C	H	N	O	P	0	0
			608	187	213	77	112	19		

- Molecule 79 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
79	GC	26	Total	C	H	N	O	P	0	0
			826	253	291	101	155	26		

- Molecule 80 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
80	GD	18	Total	C	H	N	O	P	0	0
			576	177	201	75	105	18		

- Molecule 81 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
81	H1	18	Total	C	H	N	O	P	0	0
			578	179	204	70	107	18		

- Molecule 82 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
82	H2	51	Total	C	H	N	O	P	0	0
			1612	495	573	189	304	51		

- Molecule 83 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
83	H3	42	Total	C	H	N	O	P	0	0
			1336	412	472	164	246	42		

- Molecule 84 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
84	H5	40	Total	C	H	N	O	P	0	0
			1264	388	451	143	242	40		

- Molecule 85 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
85	H6	35	Total	C	H	N	O	P	0	0
			1110	341	389	145	200	35		

- Molecule 86 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
86	H7	20	Total	C	H	N	O	P	0	0
			640	197	226	76	121	20		

- Molecule 87 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
87	H8	21	Total	C	H	N	O	P	0	0
			667	206	234	88	118	21		

- Molecule 88 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
88	H9	31	Total	C	H	N	O	P	0	0
			989	303	346	126	183	31		

- Molecule 89 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
89	HA	30	Total	C	H	N	O	P	0	0
			961	297	338	120	176	30		

- Molecule 90 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
90	HC	24	Total	C	H	N	O	P	0	0
			754	230	266	94	140	24		

- Molecule 91 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
91	HD	24	Total	C	H	N	O	P	0	0
			764	235	270	92	143	24		

- Molecule 92 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
92	I1	21	Total	C	H	N	O	P	0	0
			672	207	235	87	122	21		

- Molecule 93 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
93	I2	49	Total	C	H	N	O	P	0	0
			1553	477	549	189	289	49		

- Molecule 94 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
94	I3	59	Total	C	H	N	O	P	0	0
			1879	577	658	242	343	59		

- Molecule 95 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
95	I5	42	Total	C	H	N	O	P	0	0
			1351	417	471	177	244	42		

- Molecule 96 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
96	I6	19	Total	C	H	N	O	P	0	0
			603	186	218	60	120	19		

- Molecule 97 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
97	I7	30	Total	C	H	N	O	P	0	0
			953	292	335	119	177	30		

- Molecule 98 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
98	I8	40	Total	C	H	N	O	P	0	0
			1274	393	450	156	235	40		

- Molecule 99 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
99	I9	30	Total	C	H	N	O	P	0	0
			955	293	335	121	176	30		

- Molecule 100 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
100	IA	19	Total	C	H	N	O	P	0	0
			602	186	214	72	111	19		

- Molecule 101 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
101	IC	23	Total	C	H	N	O	P	0	0
			729	224	259	85	138	23		

- Molecule 102 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
102	ID	33	Total	C	H	N	O	P	0	0
			1061	327	372	132	197	33		

- Molecule 103 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
103	J1	28	Total	C	H	N	O	P	0	0
			888	273	314	108	165	28		

- Molecule 104 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
104	J2	42	Total	C	H	N	O	P	0	0
			1321	405	468	162	244	42		

- Molecule 105 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
105	J3	30	Total	C	H	N	O	P	0	0
			952	295	344	98	185	30		

- Molecule 106 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
106	J5	37	Total	C	H	N	O	P	0	0
			1179	362	411	157	212	37		

- Molecule 107 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
107	J6	44	Total	C	H	N	O	P	0	0
			1400	432	492	180	252	44		

- Molecule 108 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
108	J7	56	Total	C	H	N	O	P	0	0
			1785	550	631	215	333	56		

- Molecule 109 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
109	J8	54	Total	C	H	N	O	P	0	0
			1723	530	605	217	317	54		

- Molecule 110 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
110	J9	18	Total	C	H	N	O	P	0	0
			568	174	201	69	106	18		

- Molecule 111 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
111	JA	19	Total	C	H	N	O	P	0	0
			605	186	213	75	112	19		

- Molecule 112 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
112	JC	26	Total	C	H	N	O	P	0	0
			826	255	294	96	155	26		

- Molecule 113 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
113	JD	38	Total	C	H	N	O	P	0	0
			1216	374	424	160	220	38		

- Molecule 114 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
114	K1	45	Total	C	H	N	O	P	0	0
			1433	443	507	175	263	45		

- Molecule 115 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
115	K2	33	Total	C	H	N	O	P	0	0
			1049	323	374	118	201	33		

- Molecule 116 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
116	K3	18	Total	C	H	N	O	P	0	0
			570	175	200	74	103	18		

- Molecule 117 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
117	K5	49	Total	C	H	N	O	P	0	0
			1548	475	553	173	298	49		

- Molecule 118 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
118	K6	18	Total	C	H	N	O	P	0	0
			571	176	205	61	111	18		

- Molecule 119 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
119	K7	43	Total	C	H	N	O	P	0	0
			1371	422	487	157	262	43		

- Molecule 120 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
120	K8	23	Total	C	H	N	O	P	0	0
			729	224	258	88	136	23		

- Molecule 121 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
121	K9	26	Total	C	H	N	O	P	0	0
			828	256	294	98	154	26		

- Molecule 122 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
122	KA	51	Total	C	H	N	O	P	0	0
			1619	499	575	191	303	51		

- Molecule 123 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
123	KC	24	Total	C	H	N	O	P	0	0
			772	238	270	98	142	24		

- Molecule 124 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
124	KD	23	Total	C	H	N	O	P	0	0
			732	226	259	89	135	23		

- Molecule 125 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
125	L1	56	Total	C	H	N	O	P	0	0
			1787	550	628	224	329	56		

- Molecule 126 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
126	L2	56	Total	C	H	N	O	P	0	0
			1772	546	627	219	324	56		

- Molecule 127 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
127	L3	19	Total	C	H	N	O	P	0	0
			598	184	216	62	117	19		

- Molecule 128 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
128	L5	23	Total	C	H	N	O	P	0	0
			727	223	259	83	139	23		

- Molecule 129 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
129	L6	24	Total	C	H	N	O	P	0	0
			765	237	274	84	146	24		

- Molecule 130 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
130	L7	60	Total	C	H	N	O	P	0	0
			1915	593	677	235	350	60		

- Molecule 131 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
131	L8	24	Total	C	H	N	O	P	0	0
			765	236	268	100	137	24		

- Molecule 132 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
132	L9	19	Total	C	H	N	O	P	0	0
			607	188	214	76	110	19		

- Molecule 133 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
133	LA	22	Total	C	H	N	O	P	0	0
			700	215	251	73	139	22		

- Molecule 134 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
134	LC	18	Total	C	H	N	O	P	0	0
			569	174	200	72	105	18		

- Molecule 135 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
135	LD	18	Total	C	H	N	O	P	0	0
			572	177	205	63	109	18		

- Molecule 136 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
136	M2	21	Total	C	H	N	O	P	0	0
			671	207	239	75	129	21		

- Molecule 137 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
137	M3	35	Total	C	H	N	O	P	0	0
			1113	344	390	148	196	35		

- Molecule 138 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
138	M5	42	Total	C	H	N	O	P	0	0
			1335	413	476	154	250	42		

- Molecule 139 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
139	M6	25	Total	C	H	N	O	P	0	0
			784	240	278	96	145	25		

- Molecule 140 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
140	M7	26	Total	C	H	N	O	P	0	0
			821	253	290	104	148	26		

- Molecule 141 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
141	M8	26	Total	C	H	N	O	P	0	0
			824	255	295	93	155	26		

- Molecule 142 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
142	M9	23	Total	C	H	N	O	P	0	0
			735	228	261	87	136	23		

- Molecule 143 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
143	MA	44	Total	C	H	N	O	P	0	0
			1382	422	488	172	256	44		

- Molecule 144 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
144	MC	23	Total	C	H	N	O	P	0	0
			739	227	263	79	147	23		

- Molecule 145 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
145	MD	58	Total	C	H	N	O	P	0	0
			1836	566	652	220	340	58		

- Molecule 146 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
146	N2	24	Total	C	H	N	O	P	0	0
			763	235	268	98	138	24		

- Molecule 147 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
147	N3	35	Total	C	H	N	O	P	0	0
			1104	338	392	130	209	35		

- Molecule 148 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
148	N5	31	Total	C	H	N	O	P	0	0
			990	305	348	124	182	31		

- Molecule 149 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
149	N6	51	Total	C	H	N	O	P	0	0
			1615	498	577	183	306	51		

- Molecule 150 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
150	N7	23	Total	C	H	N	O	P	0	0
			730	223	256	92	136	23		

- Molecule 151 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
151	N8	21	Total	C	H	N	O	P	0	0
			663	203	235	79	125	21		

- Molecule 152 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
152	N9	52	Total	C	H	N	O	P	0	0
			1671	516	588	204	311	52		

- Molecule 153 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
153	NA	19	Total	C	H	N	O	P	0	0
			609	187	210	86	107	19		

- Molecule 154 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
154	NC	38	Total	C	H	N	O	P	0	0
			1210	372	429	141	230	38		

- Molecule 155 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
155	ND	20	Total	C	H	N	O	P	0	0
			644	199	225	83	117	20		

- Molecule 156 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
156	O2	60	Total	C	H	N	O	P	0	0
			1895	581	669	235	350	60		

- Molecule 157 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
157	O3	24	Total	C	H	N	O	P	0	0
			769	238	269	101	137	24		

- Molecule 158 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
158	O5	49	Total	C	H	N	O	P	0	0
			1556	480	549	195	283	49		

- Molecule 159 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
159	O6	23	Total	C	H	N	O	P	0	0
			731	225	260	84	139	23		

- Molecule 160 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
160	O7	52	Total	C	H	N	O	P	0	0
			1655	509	582	208	304	52		

- Molecule 161 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
161	O8	58	Total	C	H	N	O	P	0	0
			1841	568	653	221	341	58		

- Molecule 162 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
162	O9	18	Total	C	H	N	O	P	0	0
			567	175	201	71	102	18		

- Molecule 163 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
163	OA	19	Total	C	H	N	O	P	0	0
			601	185	212	76	109	19		

- Molecule 164 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
164	OC	24	Total	C	H	N	O	P	0	0
			749	229	268	86	142	24		

- Molecule 165 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
165	OD	58	Total	C	H	N	O	P	0	0
			1846	571	649	239	329	58		

- Molecule 166 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
166	P2	31	Total	C	H	N	O	P	0	0
			981	301	353	101	195	31		

- Molecule 167 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
167	P3	38	Total	C	H	N	O	P	0	0
			1197	368	427	139	225	38		

- Molecule 168 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
168	P5	18	Total	C	H	N	O	P	0	0
			571	175	202	68	108	18		

- Molecule 169 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
169	P6	18	Total	C	H	N	O	P	0	0
			573	175	200	74	106	18		

- Molecule 170 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
170	P7	18	Total	C	H	N	O	P	0	0
			574	178	203	71	104	18		

- Molecule 171 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
171	P8	24	Total	C	H	N	O	P	0	0
			756	234	277	69	152	24		

- Molecule 172 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
172	P9	24	Total	C	H	N	O	P	0	0
			762	235	276	74	153	24		

- Molecule 173 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
173	PA	38	Total	C	H	N	O	P	0	0
			1208	373	426	152	219	38		

- Molecule 174 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
174	PC	23	Total	C	H	N	O	P	0	0
			734	225	258	90	138	23		

- Molecule 175 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
175	PD	23	Total	C	H	N	O	P	0	0
			729	224	256	94	132	23		

- Molecule 176 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
176	Q2	19	Total	C	H	N	O	P	0	0
			605	188	214	76	108	19		

- Molecule 177 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
177	Q3	23	Total	C	H	N	O	P	0	0
			732	226	262	80	141	23		

- Molecule 178 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
178	Q5	42	Total	C	H	N	O	P	0	0
			1335	411	476	150	256	42		

- Molecule 179 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
179	Q7	23	Total	C	H	N	O	P	0	0
			731	225	259	87	137	23		

- Molecule 180 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
180	Q8	24	Total	C	H	N	O	P	0	0
			758	233	270	88	143	24		

- Molecule 181 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
181	Q9	39	Total	C	H	N	O	P	0	0
			1235	382	443	137	234	39		

- Molecule 182 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
182	QA	28	Total	C	H	N	O	P	0	0
			895	275	313	115	164	28		

- Molecule 183 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
183	QC	23	Total	C	H	N	O	P	0	0
			732	226	260	86	137	23		

- Molecule 184 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
184	QD	31	Total	C	H	N	O	P	0	0
			977	302	351	109	184	31		

- Molecule 185 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
185	R2	24	Total	C	H	N	O	P	0	0
			769	237	268	102	138	24		

- Molecule 186 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
186	R3	18	Total	C	H	N	O	P	0	0
			571	175	202	68	108	18		

- Molecule 187 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
187	R5	42	Total	C	H	N	O	P	0	0
			1324	405	468	162	247	42		

- Molecule 188 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
188	R7	32	Total	C	H	N	O	P	0	0
			1023	314	359	127	191	32		

- Molecule 189 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
189	R8	40	Total	C	H	N	O	P	0	0
			1266	391	451	149	235	40		

- Molecule 190 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
190	R9	46	Total	C	H	N	O	P	0	0
			1467	455	521	175	270	46		

- Molecule 191 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
191	RA	27	Total	C	H	N	O	P	0	0
			859	264	303	105	160	27		

- Molecule 192 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
192	RC	32	Total	C	H	N	O	P	0	0
			1009	310	361	113	193	32		

- Molecule 193 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
193	RD	18	Total	C	H	N	O	P	0	0
			570	177	203	69	103	18		

- Molecule 194 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
194	S2	30	Total	C	H	N	O	P	0	0
			958	295	337	119	177	30		

- Molecule 195 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
195	S3	28	Total	C	H	N	O	P	0	0
			893	275	314	112	164	28		

- Molecule 196 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
196	S5	32	Total	C	H	N	O	P	0	0
			1014	312	356	132	182	32		

- Molecule 197 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
197	S7	24	Total	C	H	N	O	P	0	0
			749	229	268	86	142	24		

- Molecule 198 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
198	S8	40	Total	C	H	N	O	P	0	0
			1269	392	452	148	237	40		

- Molecule 199 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
199	S9	23	Total	C	H	N	O	P	0	0
			733	225	255	99	131	23		

- Molecule 200 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
200	SA	24	Total	C	H	N	O	P	0	0
			762	234	269	93	142	24		

- Molecule 201 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
201	SC	19	Total	C	H	N	O	P	0	0
			604	186	211	81	107	19		

- Molecule 202 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
202	SD	26	Total	C	H	N	O	P	0	0
			827	255	290	108	148	26		

- Molecule 203 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
203	T2	24	Total	C	H	N	O	P	0	0
			763	235	271	89	144	24		

- Molecule 204 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
204	T3	45	Total	C	H	N	O	P	0	0
			1425	435	506	162	277	45		

- Molecule 205 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
205	T5	24	Total	C	H	N	O	P	0	0
			750	230	266	94	136	24		

- Molecule 206 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
206	T7	56	Total	C	H	N	O	P	0	0
			1793	552	623	243	319	56		

- Molecule 207 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
207	T8	24	Total	C	H	N	O	P	0	0
			767	236	270	94	143	24		

- Molecule 208 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
208	T9	18	Total	C	H	N	O	P	0	0
			568	176	206	58	110	18		

- Molecule 209 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
209	TA	42	Total	C	H	N	O	P	0	0
			1336	409	468	170	247	42		

- Molecule 210 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
210	TC	26	Total	C	H	N	O	P	0	0
			822	254	290	106	146	26		

- Molecule 211 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
211	TD	42	Total	C	H	N	O	P	0	0
			1339	414	478	150	255	42		

- Molecule 212 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
212	U2	24	Total	C	H	N	O	P	0	0
			760	234	271	87	144	24		

- Molecule 213 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
213	U3	26	Total	C	H	N	O	P	0	0
			834	256	291	107	154	26		

- Molecule 214 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
214	U5	42	Total	C	H	N	O	P	0	0
			1333	411	477	147	256	42		

- Molecule 215 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
215	U7	23	Total	C	H	N	O	P	0	0
			732	226	262	80	141	23		

- Molecule 216 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
216	U8	24	Total	C	H	N	O	P	0	0
			766	236	270	94	142	24		

- Molecule 217 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
217	U9	24	Total	C	H	N	O	P	0	0
			763	234	270	90	145	24		

- Molecule 218 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
218	UA	19	Total	C	H	N	O	P	0	0
			613	188	216	70	120	19		

- Molecule 219 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
219	UC	32	Total	C	H	N	O	P	0	0
			1019	315	363	117	192	32		

- Molecule 220 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
220	UD	23	Total	C	H	N	O	P	0	0
			725	223	260	80	139	23		

- Molecule 221 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
221	V2	27	Total	C	H	N	O	P	0	0
			857	265	306	98	161	27		

- Molecule 222 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
222	V3	25	Total	C	H	N	O	P	0	0
			802	248	283	97	149	25		

- Molecule 223 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
223	V5	41	Total	C	H	N	O	P	0	0
			1304	401	459	163	240	41		

- Molecule 224 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
224	V7	18	Total	C	H	N	O	P	0	0
			570	176	202	70	104	18		

- Molecule 225 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
225	V8	22	Total	C	H	N	O	P	0	0
			705	218	245	97	123	22		

- Molecule 226 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
226	V9	34	Total	C	H	N	O	P	0	0
			1084	335	380	142	193	34		

- Molecule 227 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
227	VA	29	Total	C	H	N	O	P	0	0
			920	282	325	111	173	29		

- Molecule 228 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
228	VC	40	Total	C	H	N	O	P	0	0
			1272	392	448	160	232	40		

- Molecule 229 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
229	VD	21	Total	C	H	N	O	P	0	0
			669	207	232	96	113	21		

- Molecule 230 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
230	W3	49	Total	C	H	N	O	P	0	0
			1561	482	554	184	292	49		

- Molecule 231 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
231	W5	31	Total	C	H	N	O	P	0	0
			993	306	353	111	192	31		

- Molecule 232 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
232	W7	23	Total	C	H	N	O	P	0	0
			730	225	263	75	144	23		

- Molecule 233 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
233	W8	21	Total	C	H	N	O	P	0	0
			673	208	236	86	122	21		

- Molecule 234 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
234	W9	19	Total	C	H	N	O	P	0	0
			608	187	212	80	110	19		

- Molecule 235 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
235	WD	18	Total	C	H	N	O	P	0	0
			572	177	202	72	103	18		

- Molecule 236 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
236	X5	21	Total	C	H	N	O	P	0	0
			667	206	238	76	126	21		

- Molecule 237 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
237	X7	23	Total	C	H	N	O	P	0	0
			724	224	259	85	133	23		

- Molecule 238 is a DNA chain called DNA.

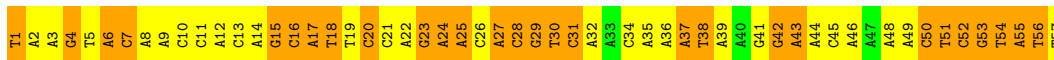
Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
238	X9	59	1871	576	661	231	344	59	0	0

3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: DNA

Chain A1: 5% 46% 49%



• Molecule 2: DNA

Chain A2: 42% 58%



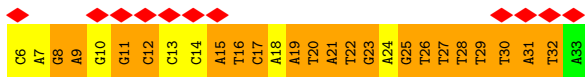
• Molecule 3: DNA

Chain A3: 35% 61%



• Molecule 4: DNA

Chain A4: 25% 39% 71%



• Molecule 5: DNA

Chain A5: 26% 71%



• Molecule 6: DNA

Chain A6: 23% 27% 69%



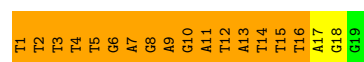
● Molecule 7: DNA



● Molecule 8: DNA



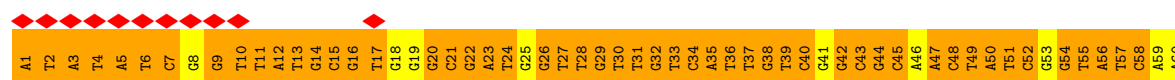
● Molecule 9: DNA



● Molecule 10: DNA



● Molecule 11: DNA scaffold



C1081	A1021	G901	C841	G781	C721	G661	C601	G541	G481	A421	G361	A301
T1082	A1022	C902	T842	C782	A722	C662	T602	T842	T842	G422	T362	T302
G1083	A1023	T903	C943	C783	A723	A663	T603	A543	A483	G423	G483	G303
A1084	A1024	C904	C944	T784	A724	C664	C604	C544	A484	G424	T363	A304
T1085	T1025	T905	T845	T785	A725	T665	C605	T645	A485	G425	G365	G305
T1086	G1026	A907	T847	A787	A726	T667	T607	G467	C487	G427	G366	G306
A1087	C1027	G908	C848	T788	G726	T668	G608	A547	A488	G428	G367	G307
C1088	C1028	G909	A849	T789	G727	A669	T609	G548	A489	G429	T368	C308
G1089	G1029	G910	A850	A790	C728	C670	T610	C549	C490	G430	T369	G310
T1090	T1091	T911	T851	G791	A729	C671	T611	A550	T491	G431	A370	T311
G1092	A1030	G912	G852	G792	T730	A672	C612	A551	A492	T432	A371	C312
C1093	T1031	G913	C853	A793	T731	A673	A613	A552	T493	C433	T372	T313
T1094	G1032	C914	T854	T794	T732	A674	G614	A553	T494	T434	G373	G314
G1095	A1033	G915	G855	T795	A733	G675	G615	A554	C495	G435	T315	T315
C1096	A1034	G916	G856	T796	T734	G676	A616	C554	C496	A436	G374	G316
T1097	A1035	T917	G857	T797	G735	A677	T617	C555	G497	G437	G375	G317
A1098	A1036	T918	G858	A797	A736	C678	A618	C556	G498	G438	T376	A318
G1099	T1037	C919	C859	T798	C737	C679	A619	C557	G499	G439	T377	A319
C1100	C1038	T920	G860	T799	G738	T680	T620	C558	C500	T440	C378	T320
G1101	G1038	G921	G861	T800	C739	A681	A621	G558	T501	G441	G379	G321
T1102	C1039	A922	C862	T801	T740	C683	G622	C559	A502	G442	T380	T322
A1103	G1040	G923	T864	T802	T741	C684	T624	T560	A504	G443	C381	C323
C1104	C1041	G924	G865	T803	A742	C685	T625	A561	C505	G444	T382	A324
G1105	T1042	G925	T866	T804	A743	C686	C626	A562	T506	T446	G383	C325
T1106	A1043	T926	G867	G805	T744	G687	C627	A563	G507	T447	G384	A326
C1107	C1044	T927	G868	T806	G745	T688	G628	T563	A508	T448	G385	G327
T1108	A1045	G927	T869	T807	A746	T689	A629	C564	T509	T449	C387	G328
C1109	G1046	G928	G871	A808	A747	A691	A631	C565	A510	G450	T388	C329
A1110	T1047	C929	T872	T809	A748	A692	T632	T566	T511	A451	T389	T331
T1111	C1048	G930	G873	T810	C749	A693	A633	A567	C512	G452	C391	T332
G1112	T1049	G931	T875	T812	T750	T695	G635	A568	A514	G453	T392	T333
C1113	G1050	G932	T876	C813	A753	T696	C636	T569	C515	T455	A393	T334
T1114	A1051	G933	C877	T814	A754	A697	A637	C570	G517	G457	T394	A335
G1115	C1052	T933	T878	A815	A755	T698	G638	C571	T518	C458	C396	G336
T1116	A1053	C934	T879	T816	T756	T699	G639	T572	C519	G459	C397	T337
C1117	T1055	G936	G880	G817	T757	A700	G640	T573	T520	G460	T398	T338
G1118	A1056	G937	T881	C818	A758	T701	G641	C574	C521	T461	G399	G340
T1120	A1057	G938	G882	C819	C759	A703	C643	T575	A523	A462	A400	T341
C1121	C1058	G940	C884	A820	A759	G704	C644	T576	C524	T464	A401	A342
T1122	G1059	A941	G885	A821	A761	T705	T645	C577	G525	A465	A403	C343
C1123	C1060	G942	G886	C822	G762	A706	T646	T578	G526	A466	T404	T344
G1124	A1061	G943	T887	C823	A763	C707	A647	T579	C527	A467	G405	G345
T1125	A1062	C944	T888	G824	C764	A708	A648	G581	A528	C468	T347	G346
G1126	C1063	G945	C889	C826	T765	C709	G649	G582	G529	C469	G407	G347
C1127	A1064	G946	T891	T827	G766	T710	T650	G583	T530	T470	G408	A349
T1128	C1065	T947	G892	G828	C767	C711	G651	A584	T531	C471	T410	C350
G1129	T1066	T948	G893	A829	C768	T712	T652	G585	A532	C472	G411	G351
C1130	T1067	C950	G894	C330	T770	T713	T653	G586	C534	G473	T412	A352
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A1140	C1076			C840				A600				
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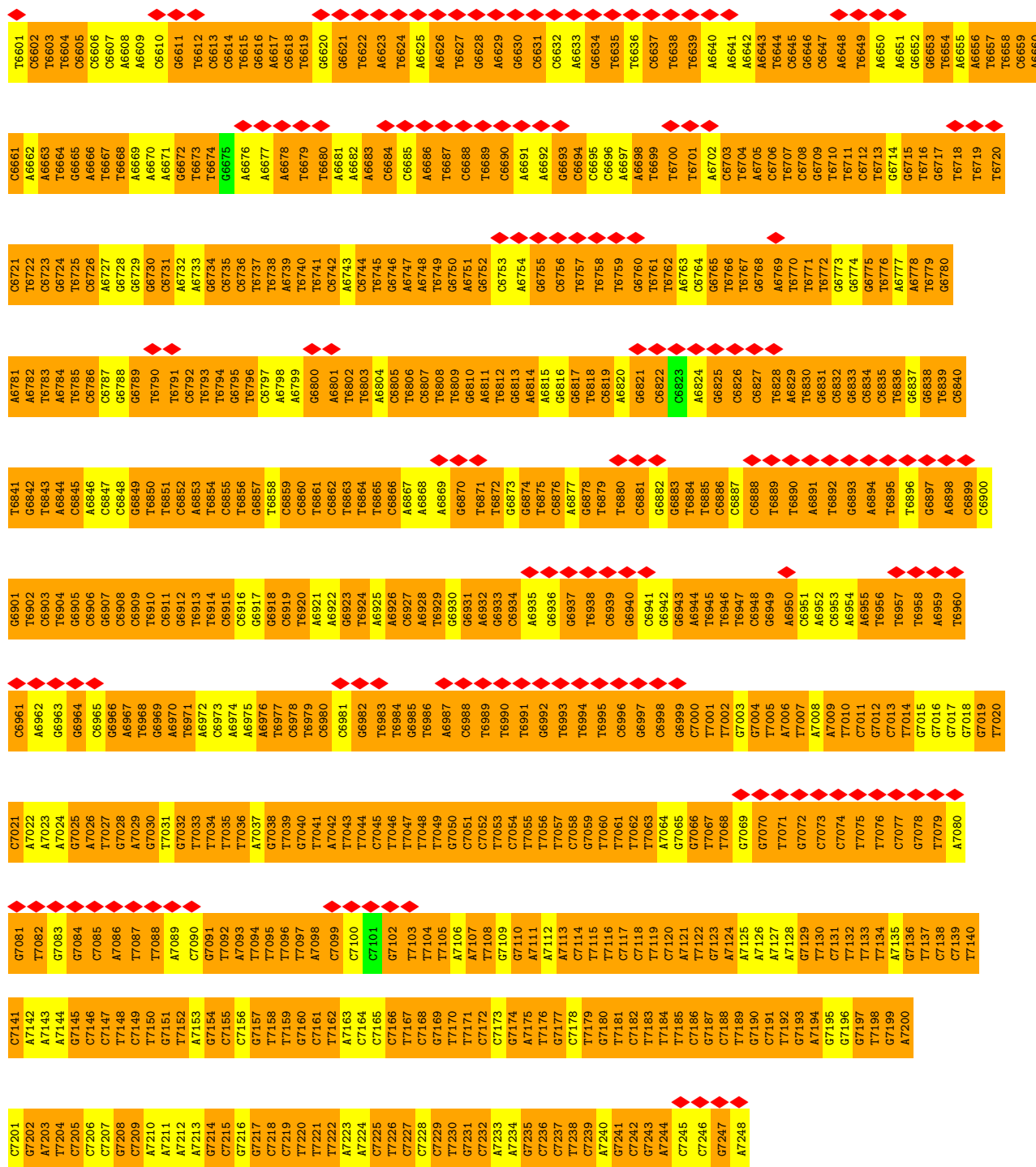
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				C4017		T3894	G3839	C3780	G3720		
				G4018		A3895	G3840				
				A4019		A3896					
				G4020		G3897					
						G3898					
						G3899					
						G3900					

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						C6299							
						A6300							



- Molecule 12: DNA

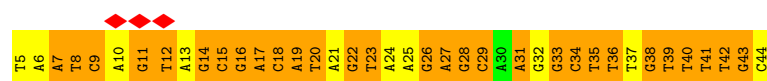
Chain AC:

22%

78%

G5	A6	C7	A8	T9	A10	T11	A12	T13	A14	T15	A16	T17	A18	C19	A20	T21	A22	G22

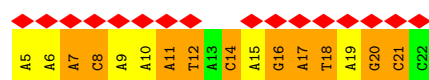
- Molecule 13: DNA



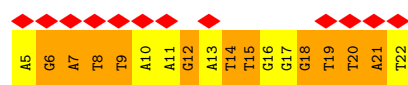
• Molecule 14: DNA



• Molecule 15: DNA



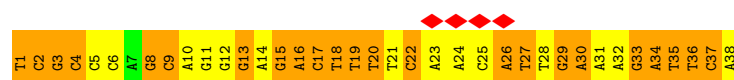
• Molecule 16: DNA



• Molecule 17: DNA



• Molecule 18: DNA



• Molecule 19: DNA

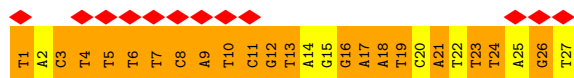


• Molecule 20: DNA





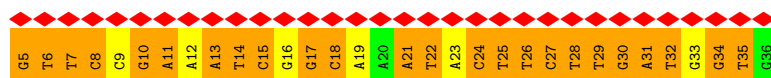
• Molecule 21: DNA



• Molecule 22: DNA



• Molecule 23: DNA



• Molecule 24: DNA



• Molecule 25: DNA



• Molecule 26: DNA



• Molecule 27: DNA

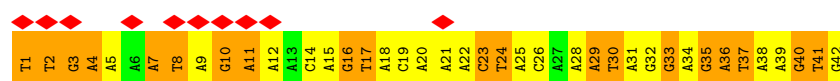




● Molecule 28: DNA



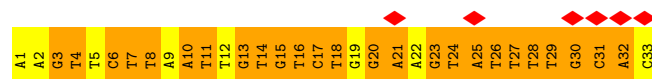
● Molecule 29: DNA



● Molecule 30: DNA



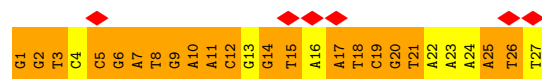
● Molecule 31: DNA



● Molecule 32: DNA



● Molecule 33: DNA

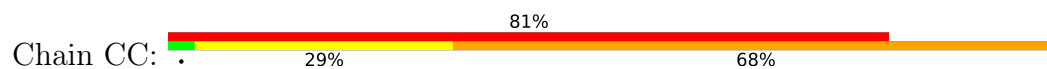


● Molecule 34: DNA





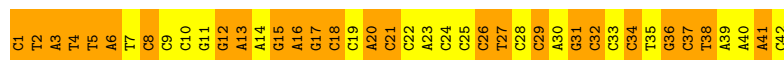
● Molecule 35: DNA



● Molecule 36: DNA



● Molecule 37: DNA



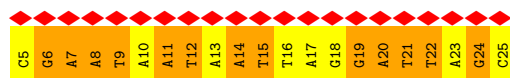
● Molecule 38: DNA



● Molecule 39: DNA



● Molecule 40: DNA



● Molecule 41: DNA





• Molecule 42: DNA



• Molecule 43: DNA



• Molecule 44: DNA



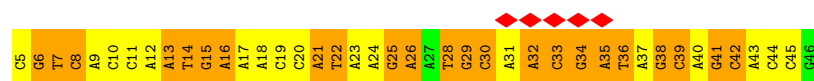
• Molecule 45: DNA



• Molecule 46: DNA



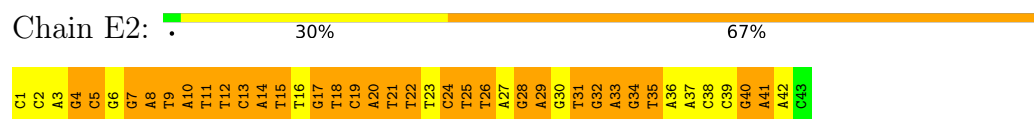
• Molecule 47: DNA



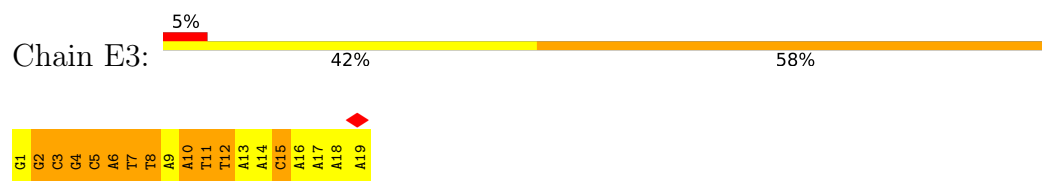
• Molecule 48: DNA



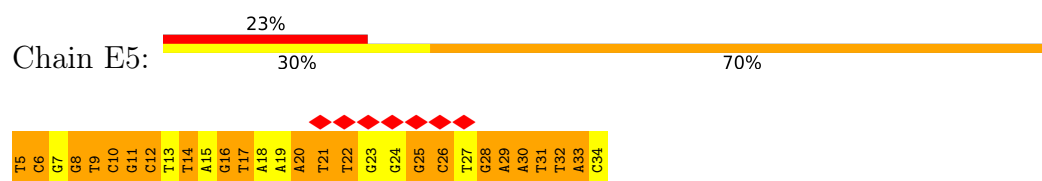
• Molecule 49: DNA



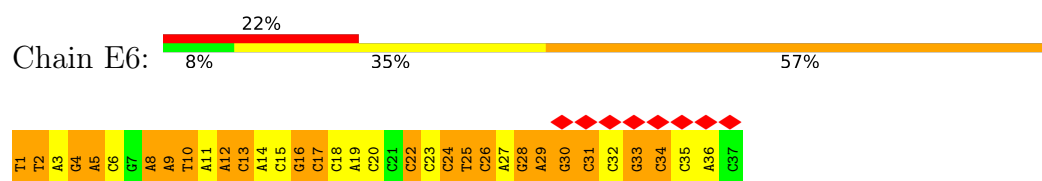
• Molecule 50: DNA



• Molecule 51: DNA



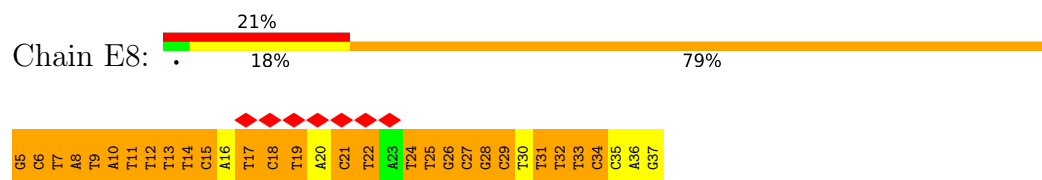
• Molecule 52: DNA



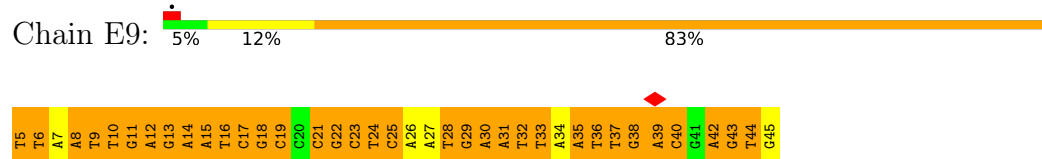
• Molecule 53: DNA



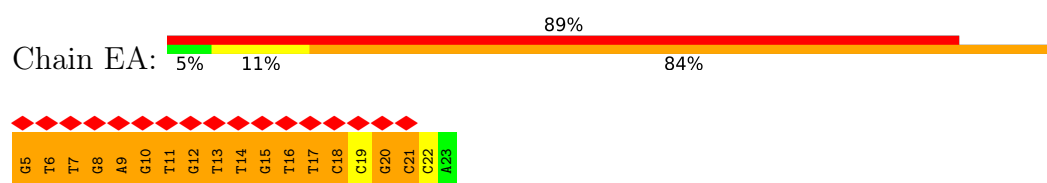
• Molecule 54: DNA



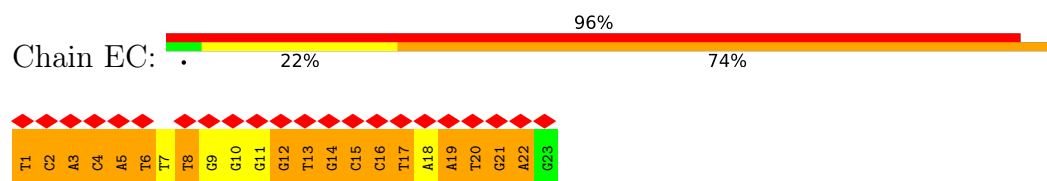
• Molecule 55: DNA



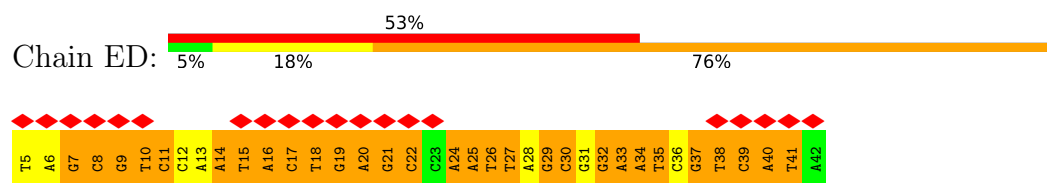
• Molecule 56: DNA



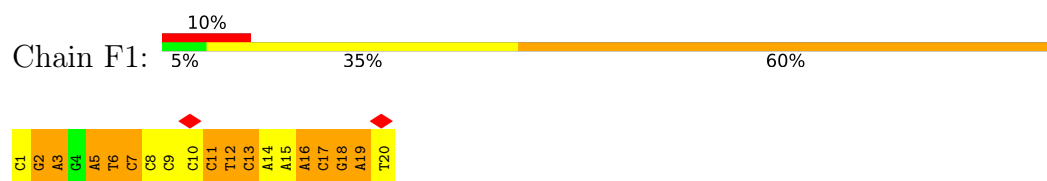
• Molecule 57: DNA



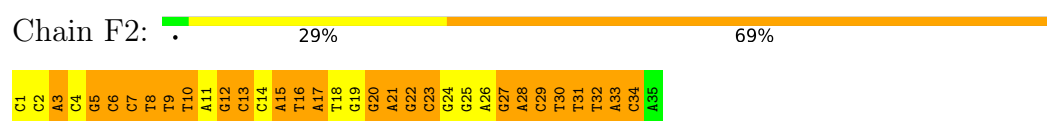
• Molecule 58: DNA



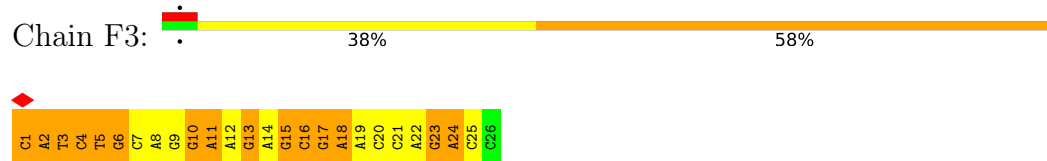
• Molecule 59: DNA



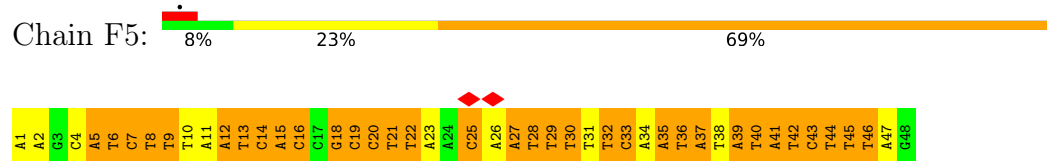
• Molecule 60: DNA



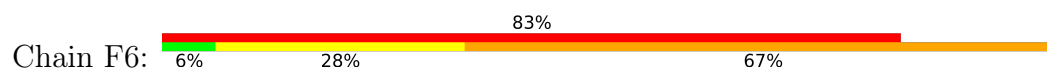
• Molecule 61: DNA

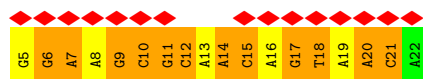


• Molecule 62: DNA



• Molecule 63: DNA





• Molecule 64: DNA



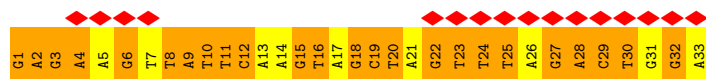
• Molecule 65: DNA



• Molecule 66: DNA



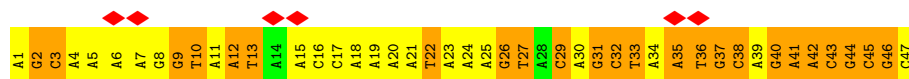
• Molecule 67: DNA



• Molecule 68: DNA



• Molecule 69: DNA

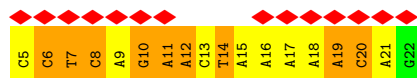
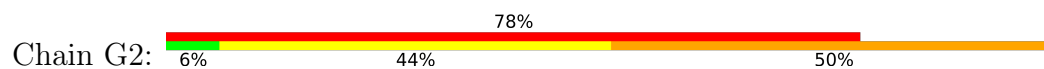


• Molecule 70: DNA

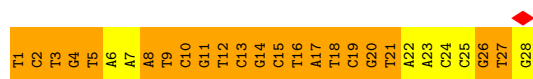




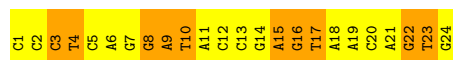
• Molecule 71: DNA



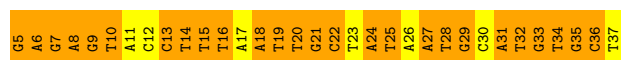
• Molecule 72: DNA



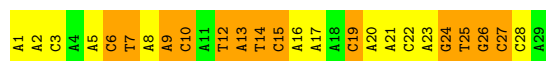
• Molecule 73: DNA



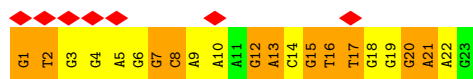
• Molecule 74: DNA



• Molecule 75: DNA



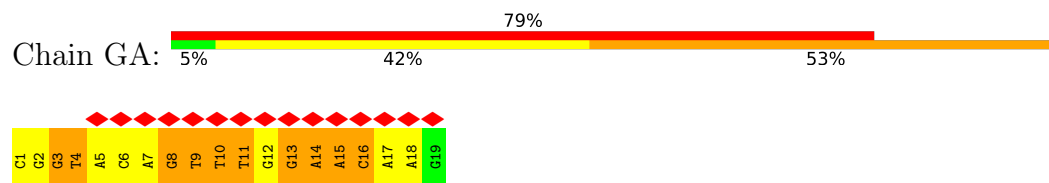
• Molecule 76: DNA



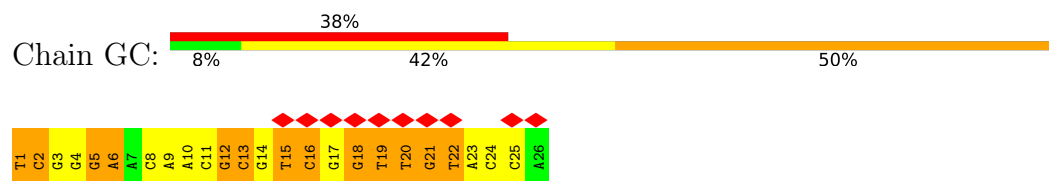
• Molecule 77: DNA



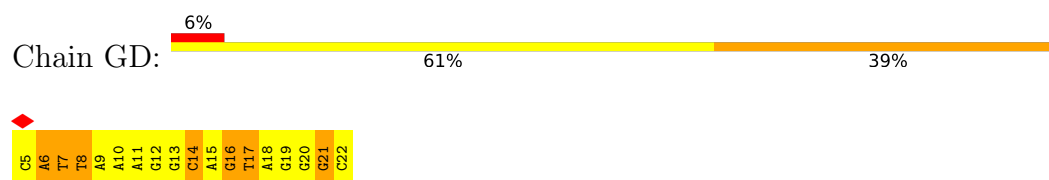
• Molecule 78: DNA



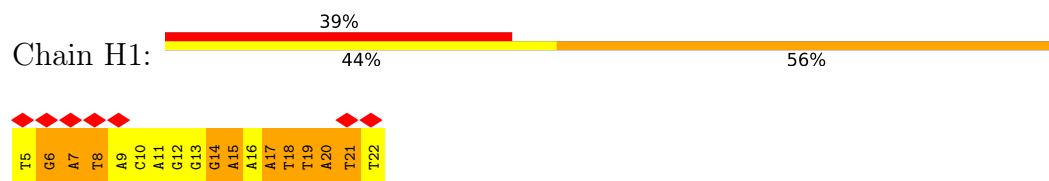
• Molecule 79: DNA



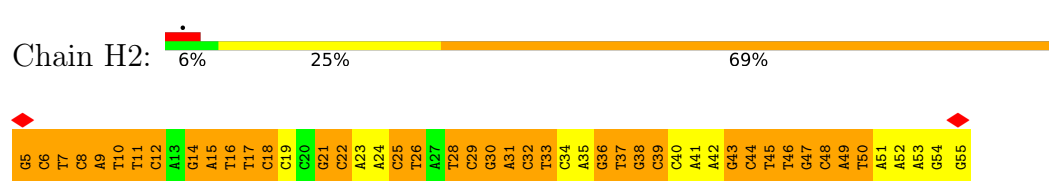
• Molecule 80: DNA



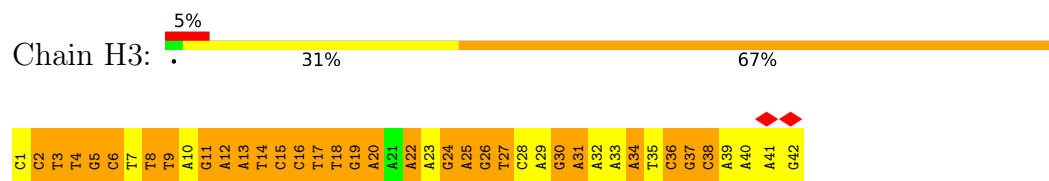
• Molecule 81: DNA



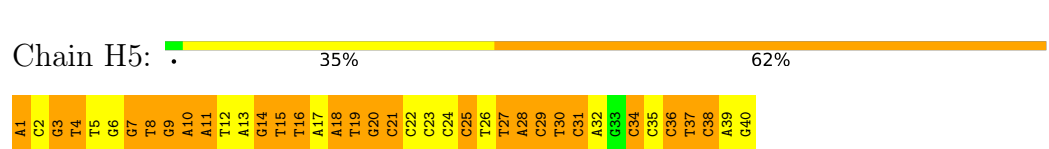
• Molecule 82: DNA



• Molecule 83: DNA



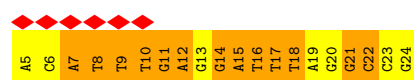
• Molecule 84: DNA



• Molecule 85: DNA



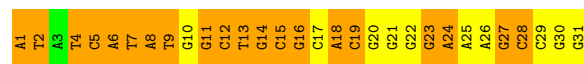
- Molecule 86: DNA



- Molecule 87: DNA



- Molecule 88: DNA



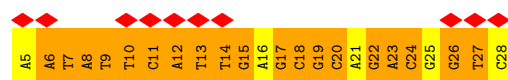
- Molecule 89: DNA



- Molecule 90: DNA



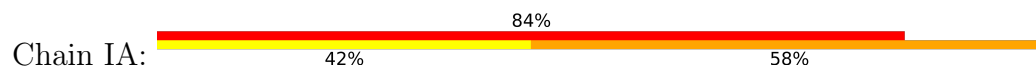
- Molecule 91: DNA



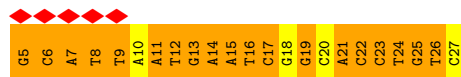
- Molecule 92: DNA



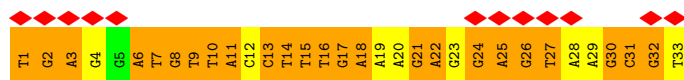
• Molecule 100: DNA



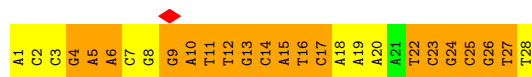
• Molecule 101: DNA



• Molecule 102: DNA



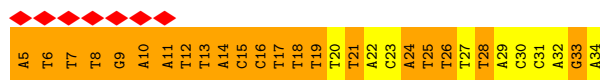
• Molecule 103: DNA



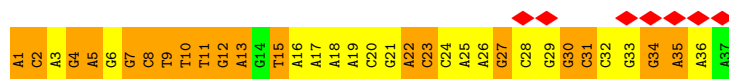
• Molecule 104: DNA



• Molecule 105: DNA



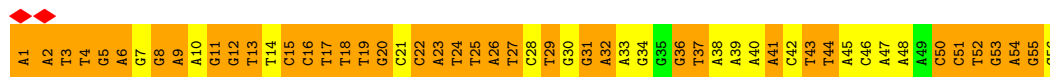
• Molecule 106: DNA



- Molecule 107: DNA



- Molecule 108: DNA



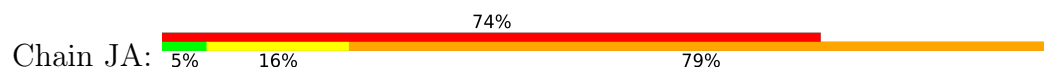
- Molecule 109: DNA



- Molecule 110: DNA



- Molecule 111: DNA



- Molecule 112: DNA

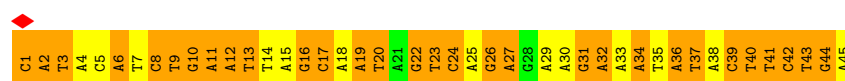


- Molecule 113: DNA



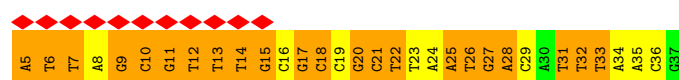
- Molecule 114: DNA

Chain K1:  29% 67%



- Molecule 115: DNA

Chain K2:  6% 27% 67%



- Molecule 116: DNA

Chain K3:  6% 39% 56%



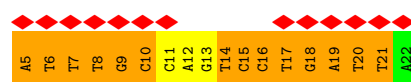
- Molecule 117: DNA

Chain K5:  37% 61%



- Molecule 118: DNA

Chain K6:  6% 17% 72% 78%



- Molecule 119: DNA

Chain K7:  5% 23% 72%



- Molecule 120: DNA

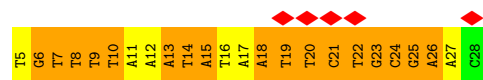
Chain K8:  22% 48% 48%



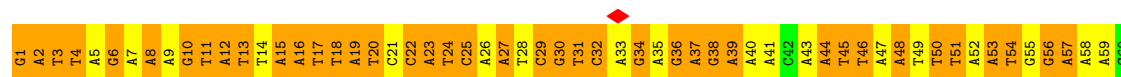
- Molecule 121: DNA

Chain K9:  8% 27% 65%

● Molecule 129: DNA



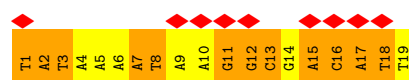
● Molecule 130: DNA



● Molecule 131: DNA



● Molecule 132: DNA



● Molecule 133: DNA



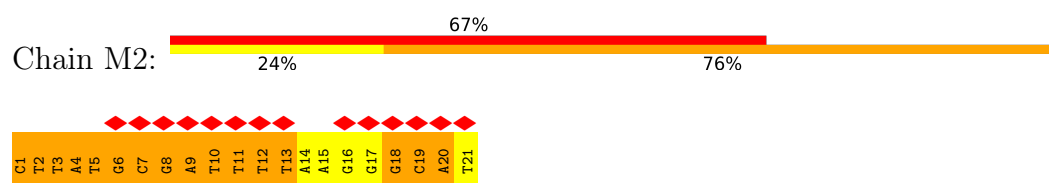
● Molecule 134: DNA



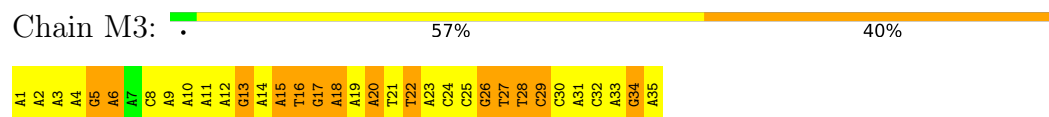
● Molecule 135: DNA



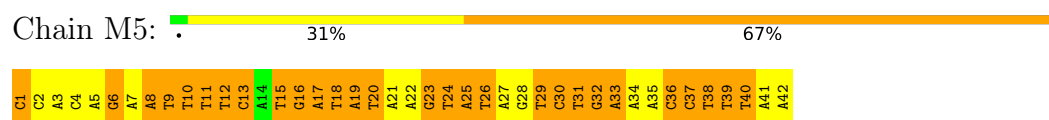
● Molecule 136: DNA



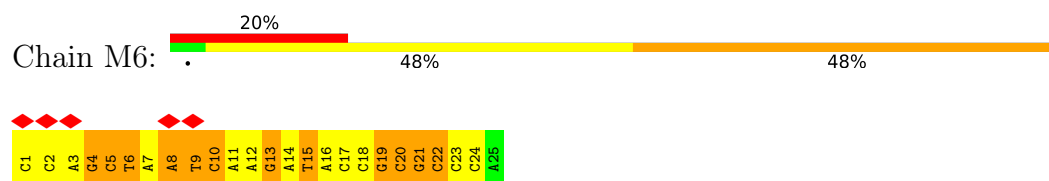
- Molecule 137: DNA



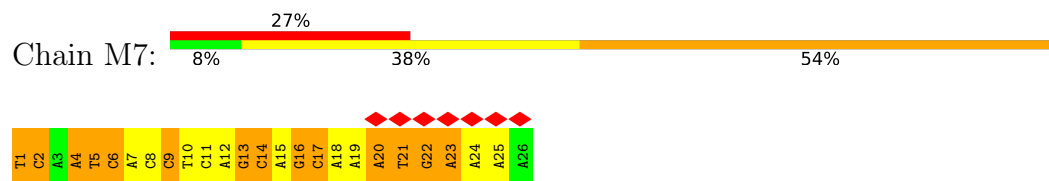
- Molecule 138: DNA



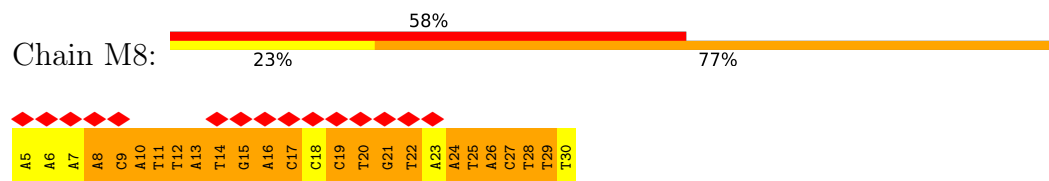
- Molecule 139: DNA



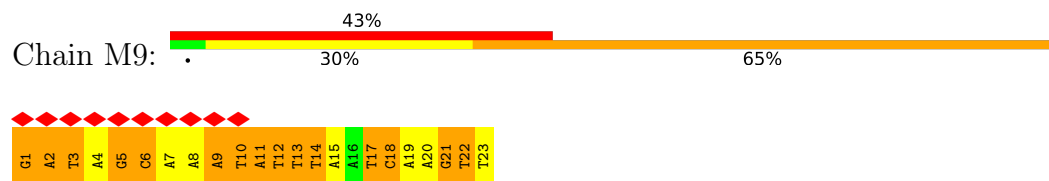
- Molecule 140: DNA



- Molecule 141: DNA

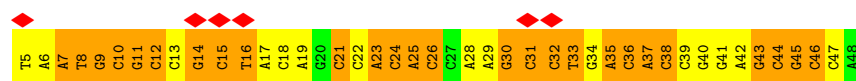


- Molecule 142: DNA

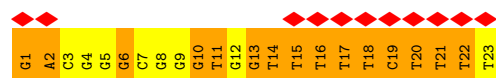


- Molecule 143: DNA





● Molecule 144: DNA



● Molecule 145: DNA



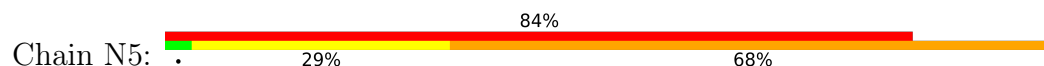
● Molecule 146: DNA



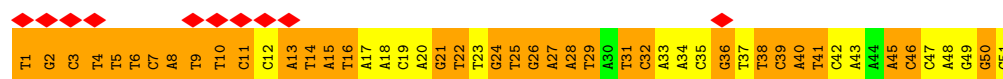
● Molecule 147: DNA



● Molecule 148: DNA

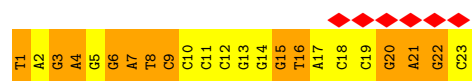


● Molecule 149: DNA

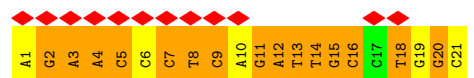


● Molecule 150: DNA

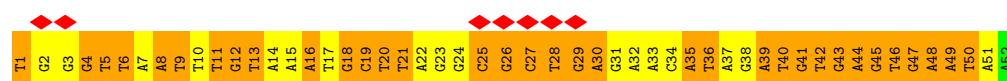




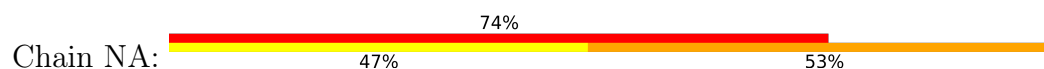
• Molecule 151: DNA



• Molecule 152: DNA



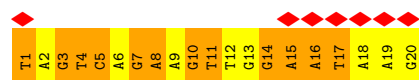
• Molecule 153: DNA



• Molecule 154: DNA



• Molecule 155: DNA



• Molecule 156: DNA

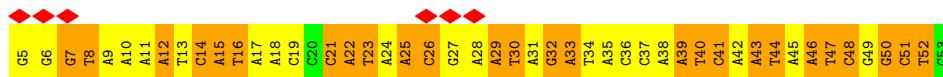


• Molecule 157: DNA

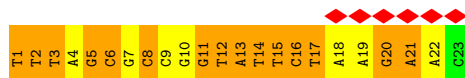




• Molecule 158: DNA



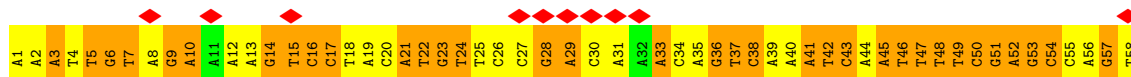
• Molecule 159: DNA



• Molecule 160: DNA



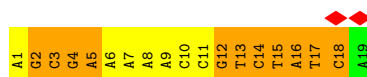
• Molecule 161: DNA



• Molecule 162: DNA



• Molecule 163: DNA

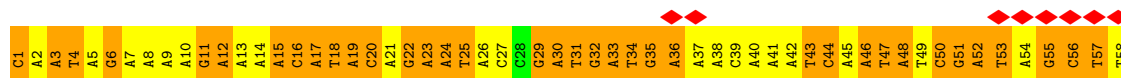


• Molecule 164: DNA





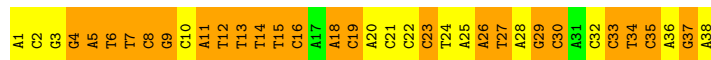
● Molecule 165: DNA



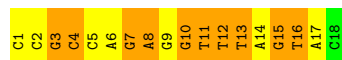
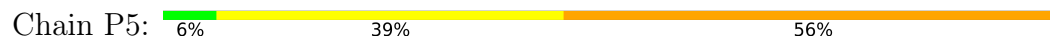
● Molecule 166: DNA



● Molecule 167: DNA



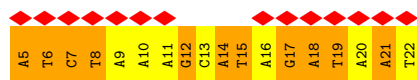
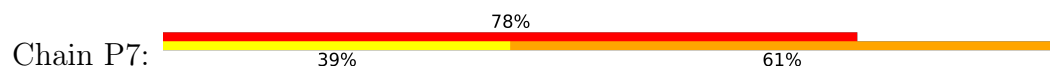
● Molecule 168: DNA



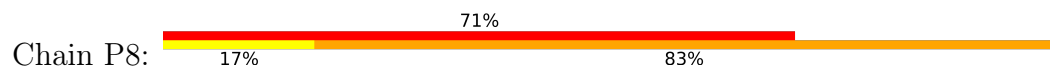
● Molecule 169: DNA



● Molecule 170: DNA



● Molecule 171: DNA





- Molecule 172: DNA

Chain P9: 17% 79%



- Molecule 173: DNA

Chain PA: 5% 39% 55%



- Molecule 174: DNA

Chain PC: 26% 57% 74%



- Molecule 175: DNA

Chain PD: 22% 43% 52%



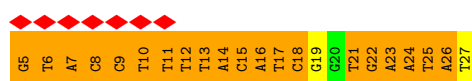
- Molecule 176: DNA

Chain Q2: 5% 47% 100% 47%



- Molecule 177: DNA

Chain Q3: 9% 30% 87%

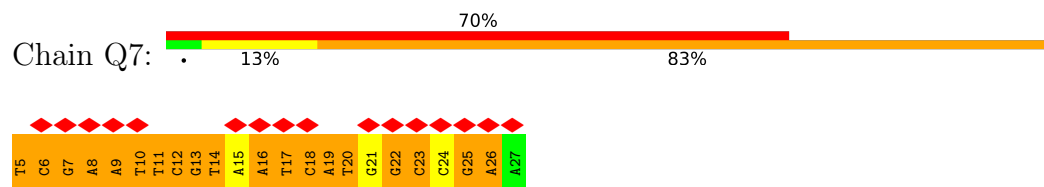


- Molecule 178: DNA

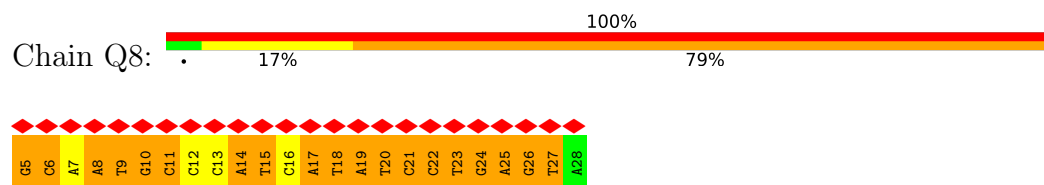
Chain Q5: 7% 17% 76%



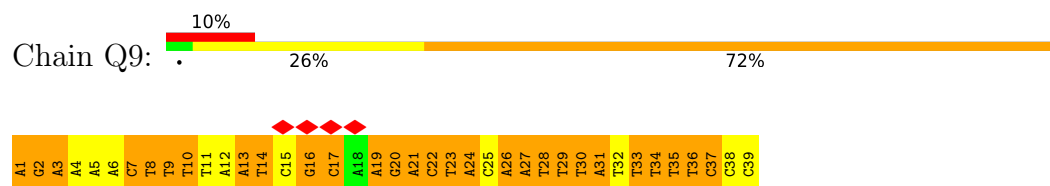
• Molecule 179: DNA



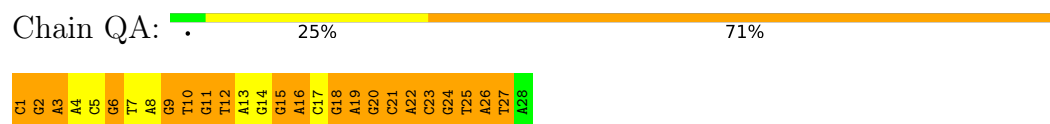
• Molecule 180: DNA



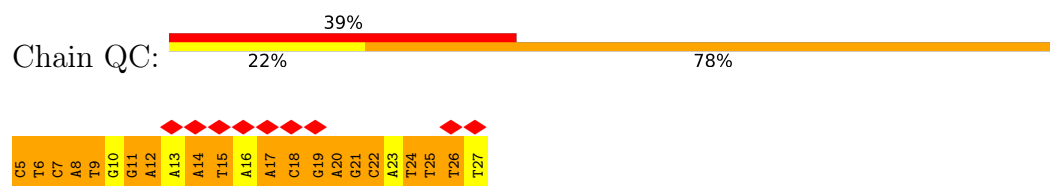
• Molecule 181: DNA



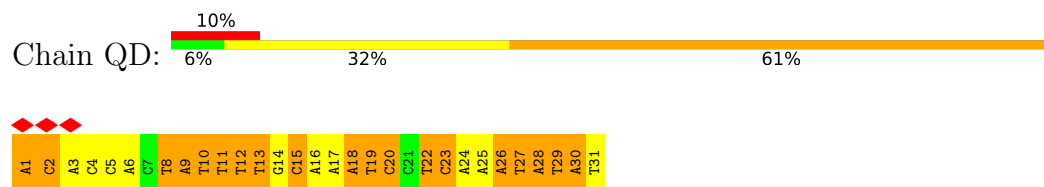
• Molecule 182: DNA



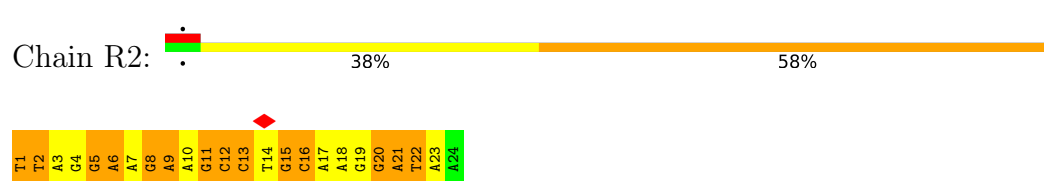
• Molecule 183: DNA



• Molecule 184: DNA



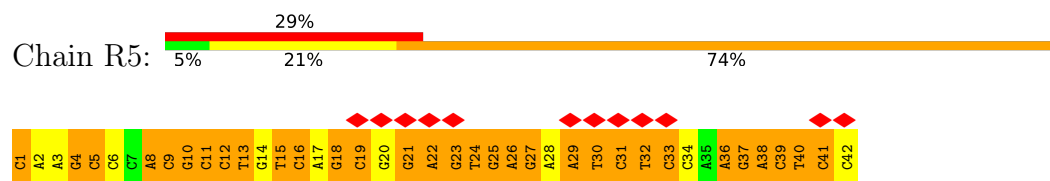
• Molecule 185: DNA



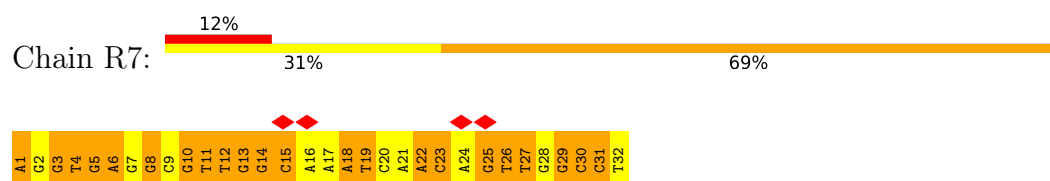
• Molecule 186: DNA



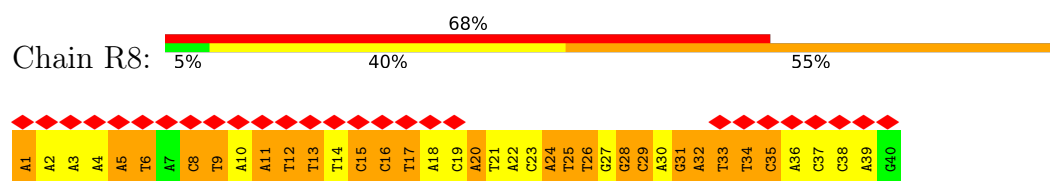
• Molecule 187: DNA



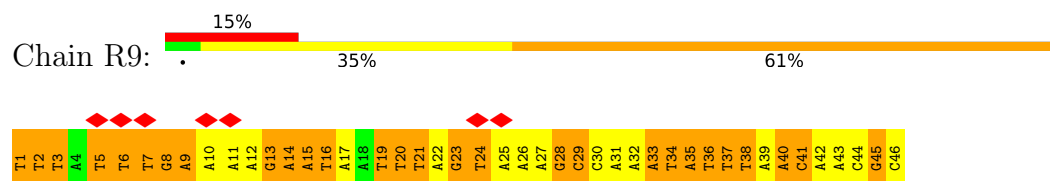
• Molecule 188: DNA



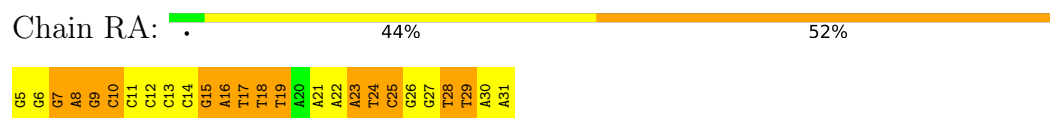
• Molecule 189: DNA



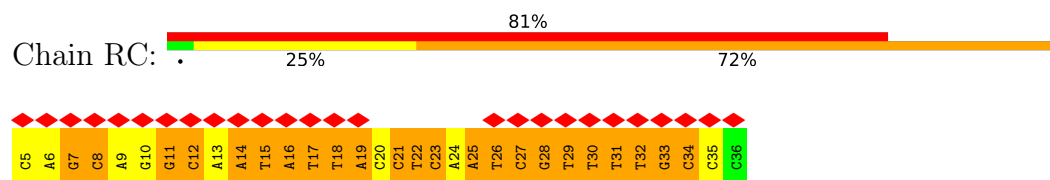
• Molecule 190: DNA



• Molecule 191: DNA



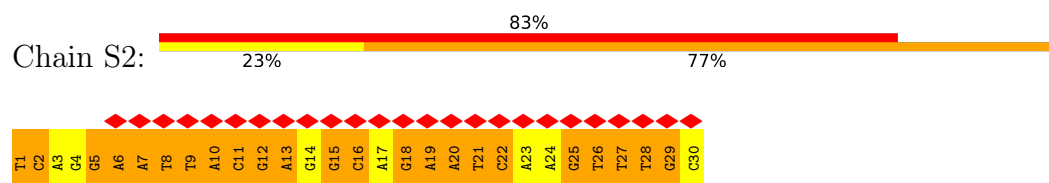
• Molecule 192: DNA



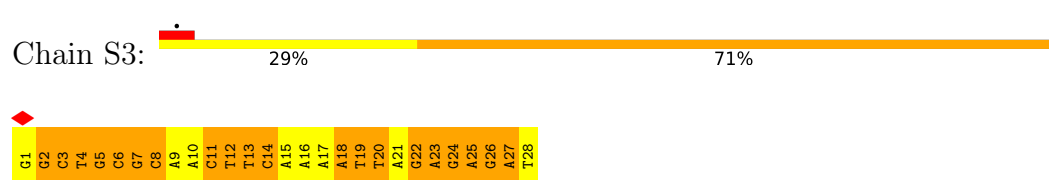
• Molecule 193: DNA



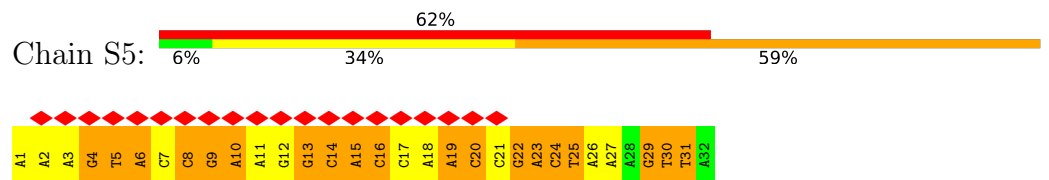
• Molecule 194: DNA



• Molecule 195: DNA



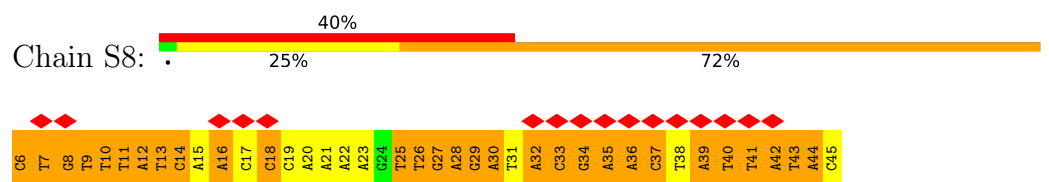
• Molecule 196: DNA



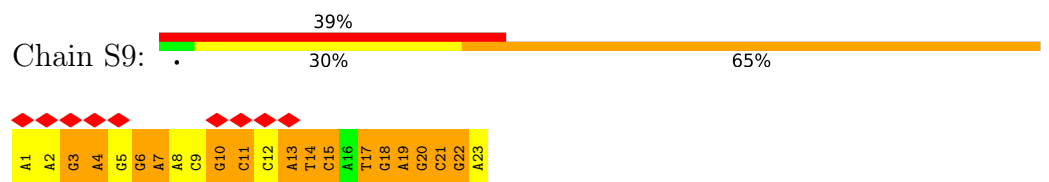
• Molecule 197: DNA



• Molecule 198: DNA

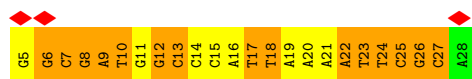


• Molecule 199: DNA



• Molecule 200: DNA





● Molecule 201: DNA



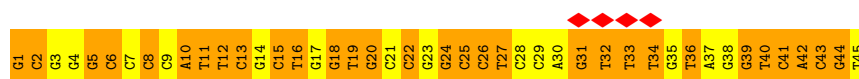
● Molecule 202: DNA



● Molecule 203: DNA



● Molecule 204: DNA



● Molecule 205: DNA



● Molecule 206: DNA



● Molecule 207: DNA





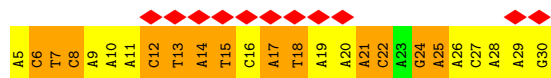
• Molecule 208: DNA



• Molecule 209: DNA



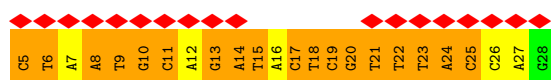
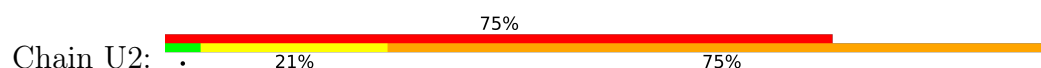
• Molecule 210: DNA



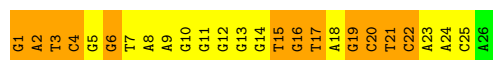
• Molecule 211: DNA



• Molecule 212: DNA



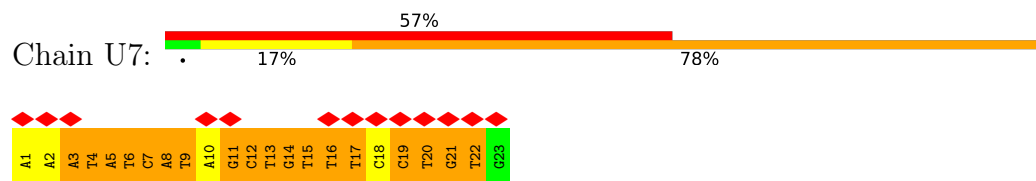
• Molecule 213: DNA



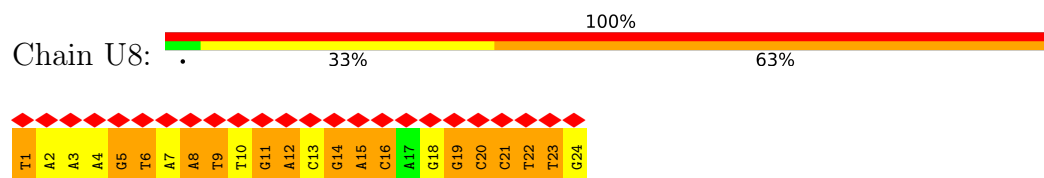
• Molecule 214: DNA



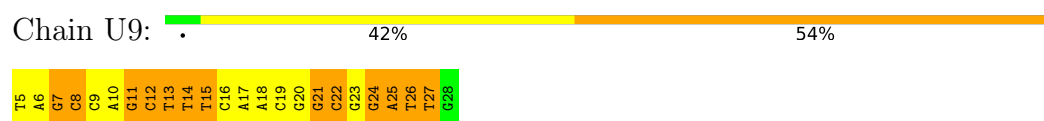
• Molecule 215: DNA



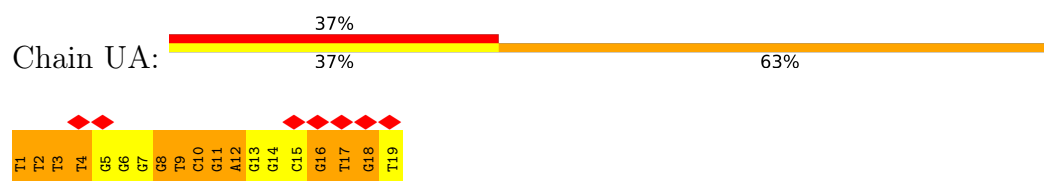
• Molecule 216: DNA



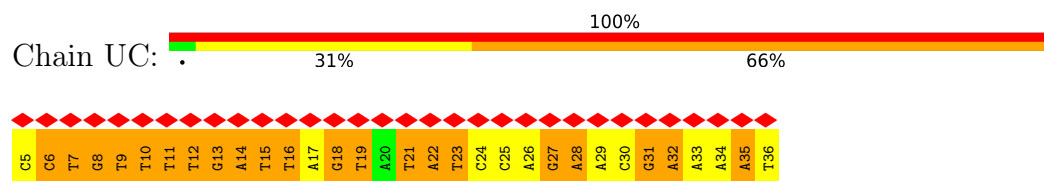
• Molecule 217: DNA



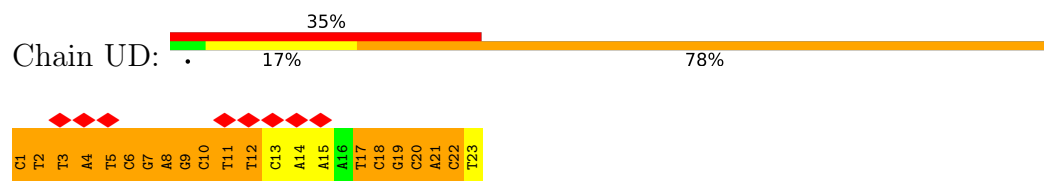
• Molecule 218: DNA



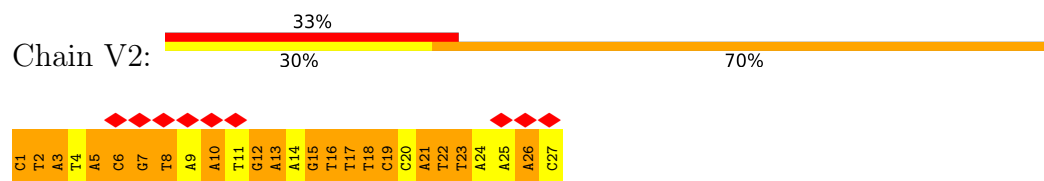
• Molecule 219: DNA



• Molecule 220: DNA



• Molecule 221: DNA



• Molecule 222: DNA

Chain V3:  32% 68%



- Molecule 223: DNA

Chain V5:  10% 51% 46%



- Molecule 224: DNA

Chain V7:  50% 89% 50%



- Molecule 225: DNA

Chain V8:  5% 27% 68%



- Molecule 226: DNA

Chain V9:  50% 38% 59%



- Molecule 227: DNA

Chain VA:  24% 76%



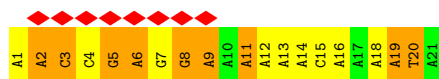
- Molecule 228: DNA

Chain VC:  90% 5% 38% 58%

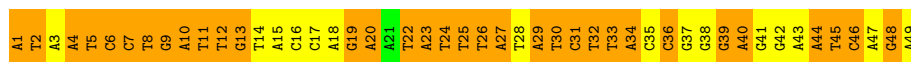


- Molecule 229: DNA

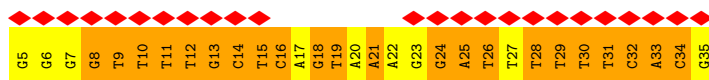
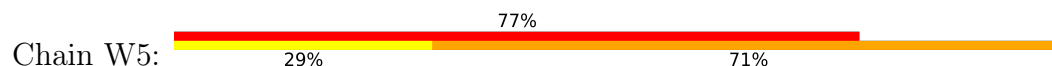
Chain VD:  38% 14% 43% 43%



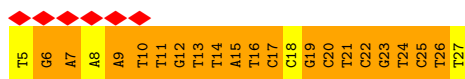
• Molecule 230: DNA



• Molecule 231: DNA



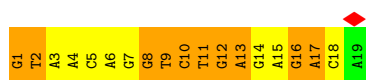
• Molecule 232: DNA



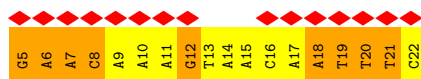
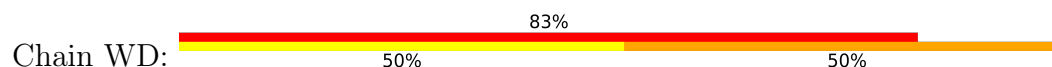
• Molecule 233: DNA



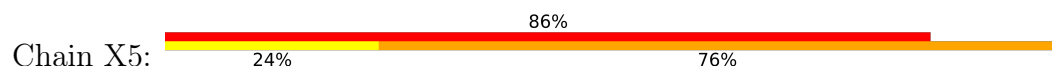
• Molecule 234: DNA

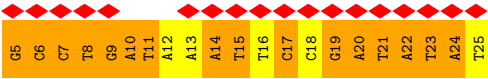


• Molecule 235: DNA

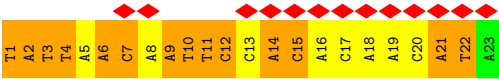


• Molecule 236: DNA





● Molecule 237: DNA



● Molecule 238: DNA



4 Experimental information

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of subtomograms used	694	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	3	Depositor
Minimum defocus (nm)	3000	Depositor
Maximum defocus (nm)	5500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	5.388	Depositor
Minimum map value	-5.817	Depositor
Average map value	-0.789	Depositor
Map value standard deviation	0.614	Depositor
Recommended contour level	0.219	Depositor
Map size ($\text{\AA}$)	783.36, 783.36, 783.36	wwPDB
Map dimensions	48, 48, 48	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	16.32, 16.32, 16.32	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A1	1.81	49/1305 (3.8%)	2.19	69/1991 (3.5%)
2	A2	1.80	27/710 (3.8%)	2.25	40/1086 (3.7%)
3	A3	1.88	21/529 (4.0%)	2.26	32/812 (3.9%)
4	A4	1.86	26/642 (4.0%)	2.27	37/986 (3.8%)
5	A5	1.83	37/959 (3.9%)	2.25	55/1469 (3.7%)
6	A6	1.89	25/601 (4.2%)	2.32	37/925 (4.0%)
7	A7	1.83	33/843 (3.9%)	2.27	45/1291 (3.5%)
8	A8	1.85	22/555 (4.0%)	2.25	32/853 (3.8%)
9	A9	1.87	18/442 (4.1%)	2.25	23/682 (3.4%)
10	AA	1.87	20/534 (3.7%)	2.17	28/817 (3.4%)
11	AB	1.93	7058/165871 (4.3%)	2.34	10177/255582 (4.0%)
12	AC	1.88	16/413 (3.9%)	2.26	22/633 (3.5%)
13	AD	1.90	37/925 (4.0%)	2.31	56/1422 (3.9%)
14	B1	1.84	37/980 (3.8%)	2.20	51/1502 (3.4%)
15	B2	1.84	16/416 (3.8%)	2.20	23/636 (3.6%)
16	B3	1.81	16/421 (3.8%)	2.20	21/647 (3.2%)
17	B4	1.85	16/416 (3.8%)	2.26	24/638 (3.8%)
18	B5	1.81	33/870 (3.8%)	2.25	47/1330 (3.5%)
19	B6	1.81	21/552 (3.8%)	2.19	29/845 (3.4%)
20	B7	1.89	16/403 (4.0%)	2.26	25/616 (4.1%)
21	B8	1.87	25/614 (4.1%)	2.29	35/943 (3.7%)
22	B9	1.86	48/1249 (3.8%)	2.22	71/1915 (3.7%)
23	BA	1.90	30/736 (4.1%)	2.29	42/1132 (3.7%)
24	BC	1.91	35/865 (4.0%)	2.27	52/1331 (3.9%)
25	BD	1.83	17/445 (3.8%)	2.23	24/682 (3.5%)
26	C1	1.82	24/608 (3.9%)	2.28	36/929 (3.9%)
27	C2	1.85	16/413 (3.9%)	2.27	24/632 (3.8%)
28	C3	1.84	19/498 (3.8%)	2.18	27/766 (3.5%)
29	C5	1.82	37/983 (3.8%)	2.17	51/1506 (3.4%)
30	C6	1.84	39/1041 (3.7%)	2.20	56/1593 (3.5%)
31	C7	1.84	30/756 (4.0%)	2.28	41/1161 (3.5%)
32	C8	1.82	47/1246 (3.8%)	2.27	72/1907 (3.8%)
33	C9	1.86	25/627 (4.0%)	2.27	35/964 (3.6%)
34	CA	1.87	18/440 (4.1%)	2.29	26/677 (3.8%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
35	CC	1.90	29/710 (4.1%)	2.28	44/1090 (4.0%)
36	CD	1.85	23/595 (3.9%)	2.18	31/911 (3.4%)
37	D1	1.84	37/941 (3.9%)	2.26	60/1435 (4.2%)
38	D2	1.94	17/415 (4.1%)	2.37	29/637 (4.6%)
39	D3	1.84	30/784 (3.8%)	2.24	44/1201 (3.7%)
40	D5	1.86	19/488 (3.9%)	2.24	26/749 (3.5%)
41	D6	1.85	40/1055 (3.8%)	2.21	57/1613 (3.5%)
42	D7	1.87	19/490 (3.9%)	2.25	29/753 (3.9%)
43	D8	1.85	40/1048 (3.8%)	2.22	61/1601 (3.8%)
44	D9	1.91	28/697 (4.0%)	2.23	41/1071 (3.8%)
45	DA	1.94	22/533 (4.1%)	2.30	33/820 (4.0%)
46	DC	1.87	16/412 (3.9%)	2.33	27/631 (4.3%)
47	DD	1.94	40/968 (4.1%)	2.29	60/1487 (4.0%)
48	E1	1.89	30/753 (4.0%)	2.22	46/1153 (4.0%)
49	E2	1.86	38/983 (3.9%)	2.23	54/1505 (3.6%)
50	E3	1.83	17/440 (3.9%)	2.23	23/674 (3.4%)
51	E5	1.85	27/690 (3.9%)	2.29	40/1059 (3.8%)
52	E6	1.90	33/834 (4.0%)	2.26	54/1273 (4.2%)
53	E7	1.85	22/555 (4.0%)	2.32	32/853 (3.8%)
54	E8	1.86	29/738 (3.9%)	2.30	44/1128 (3.9%)
55	E9	1.87	36/943 (3.8%)	2.23	51/1444 (3.5%)
56	EA	1.90	18/435 (4.1%)	2.36	28/670 (4.2%)
57	EC	1.87	21/531 (4.0%)	2.22	29/816 (3.6%)
58	ED	1.92	36/873 (4.1%)	2.33	56/1342 (4.2%)
59	F1	1.90	18/451 (4.0%)	2.22	27/689 (3.9%)
60	F2	1.81	30/797 (3.8%)	2.24	47/1217 (3.9%)
61	F3	1.86	23/600 (3.8%)	2.27	36/918 (3.9%)
62	F5	1.80	41/1080 (3.8%)	2.20	54/1647 (3.3%)
63	F6	1.86	16/421 (3.8%)	2.25	25/645 (3.9%)
64	F7	1.78	25/667 (3.7%)	2.18	34/1020 (3.3%)
65	F8	1.91	16/409 (3.9%)	2.21	22/625 (3.5%)
66	F9	1.85	16/420 (3.8%)	2.23	23/644 (3.6%)
67	FA	1.80	29/768 (3.8%)	2.26	44/1178 (3.7%)
68	FC	1.89	17/443 (3.8%)	2.23	26/680 (3.8%)
69	FD	1.85	42/1093 (3.8%)	2.24	63/1674 (3.8%)
70	G1	1.88	17/435 (3.9%)	2.28	27/666 (4.1%)
71	G2	1.85	16/413 (3.9%)	2.17	22/631 (3.5%)
72	G3	1.98	27/638 (4.2%)	2.35	42/982 (4.3%)
73	G5	1.86	21/550 (3.8%)	2.16	32/841 (3.8%)
74	G6	1.86	30/757 (4.0%)	2.30	45/1162 (3.9%)
75	G7	1.81	25/662 (3.8%)	2.18	36/1009 (3.6%)
76	G8	1.81	20/548 (3.6%)	2.15	27/842 (3.2%)
77	G9	1.86	17/433 (3.9%)	2.22	23/664 (3.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
78	GA	1.92	18/444 (4.1%)	2.22	24/684 (3.5%)
79	GC	1.89	23/598 (3.8%)	2.22	34/916 (3.7%)
80	GD	1.84	16/421 (3.8%)	2.13	21/646 (3.3%)
81	H1	1.81	16/419 (3.8%)	2.20	21/643 (3.3%)
82	H2	1.86	46/1160 (4.0%)	2.31	71/1776 (4.0%)
83	H3	1.85	37/967 (3.8%)	2.21	51/1480 (3.4%)
84	H5	1.84	35/905 (3.9%)	2.22	53/1383 (3.8%)
85	H6	1.88	32/810 (4.0%)	2.24	48/1242 (3.9%)
86	H7	1.88	18/463 (3.9%)	2.23	25/711 (3.5%)
87	H8	1.86	19/487 (3.9%)	2.21	27/746 (3.6%)
88	H9	1.86	27/720 (3.8%)	2.22	41/1103 (3.7%)
89	HA	1.85	28/700 (4.0%)	2.25	37/1077 (3.4%)
90	HC	1.92	22/546 (4.0%)	2.27	35/836 (4.2%)
91	HD	1.89	22/553 (4.0%)	2.32	33/849 (3.9%)
92	I1	1.83	19/491 (3.9%)	2.23	27/754 (3.6%)
93	I2	1.86	43/1122 (3.8%)	2.25	65/1716 (3.8%)
94	I3	1.84	51/1368 (3.7%)	2.20	75/2093 (3.6%)
95	I5	1.80	37/989 (3.7%)	2.15	48/1518 (3.2%)
96	I6	1.86	17/427 (4.0%)	2.28	24/654 (3.7%)
97	I7	1.88	27/692 (3.9%)	2.22	39/1061 (3.7%)
98	I8	1.86	36/923 (3.9%)	2.18	48/1415 (3.4%)
99	I9	1.87	27/695 (3.9%)	2.31	43/1066 (4.0%)
100	IA	1.88	18/435 (4.1%)	2.25	25/668 (3.7%)
101	IC	1.86	21/525 (4.0%)	2.33	32/805 (4.0%)
102	ID	1.87	30/773 (3.9%)	2.22	42/1189 (3.5%)
103	J1	1.87	25/642 (3.9%)	2.30	37/983 (3.8%)
104	J2	1.87	37/953 (3.9%)	2.22	56/1455 (3.8%)
105	J3	1.84	27/676 (4.0%)	2.27	37/1035 (3.6%)
106	J5	1.87	33/863 (3.8%)	2.22	48/1323 (3.6%)
107	J6	1.80	38/1018 (3.7%)	2.17	52/1556 (3.3%)
108	J7	1.81	49/1290 (3.8%)	2.21	67/1975 (3.4%)
109	J8	1.85	48/1253 (3.8%)	2.24	69/1921 (3.6%)
110	J9	1.95	16/410 (3.9%)	2.31	27/627 (4.3%)
111	JA	1.92	18/440 (4.1%)	2.29	27/677 (4.0%)
112	JC	1.84	23/594 (3.9%)	2.27	34/909 (3.7%)
113	JD	1.83	33/889 (3.7%)	2.18	49/1362 (3.6%)
114	K1	1.82	39/1036 (3.8%)	2.19	53/1584 (3.3%)
115	K2	1.88	29/752 (3.9%)	2.30	44/1151 (3.8%)
116	K3	1.88	16/415 (3.9%)	2.19	23/635 (3.6%)
117	K5	1.83	42/1106 (3.8%)	2.22	65/1688 (3.9%)
118	K6	1.86	16/407 (3.9%)	2.24	23/623 (3.7%)
119	K7	1.84	37/985 (3.8%)	2.26	54/1507 (3.6%)
120	K8	1.85	20/526 (3.8%)	2.20	29/804 (3.6%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
121	K9	1.84	23/597 (3.9%)	2.21	31/914 (3.4%)
122	KA	1.84	45/1166 (3.9%)	2.22	65/1784 (3.6%)
123	KC	1.86	22/564 (3.9%)	2.19	28/868 (3.2%)
124	KD	1.89	21/530 (4.0%)	2.20	27/813 (3.3%)
125	L1	1.86	51/1300 (3.9%)	2.25	74/1996 (3.7%)
126	L2	1.86	51/1283 (4.0%)	2.22	71/1965 (3.6%)
127	L3	1.84	17/424 (4.0%)	2.31	25/648 (3.9%)
128	L5	1.89	21/522 (4.0%)	2.31	32/800 (4.0%)
129	L6	1.87	22/548 (4.0%)	2.30	30/841 (3.6%)
130	L7	1.79	52/1386 (3.8%)	2.21	70/2120 (3.3%)
131	L8	1.86	22/559 (3.9%)	2.18	29/858 (3.4%)
132	L9	1.84	17/441 (3.9%)	2.19	23/676 (3.4%)
133	LA	1.86	19/498 (3.8%)	2.24	27/762 (3.5%)
134	LC	1.87	16/413 (3.9%)	2.24	25/632 (4.0%)
135	LD	1.81	16/409 (3.9%)	2.24	22/626 (3.5%)
136	M2	1.90	20/483 (4.1%)	2.30	27/744 (3.6%)
137	M3	1.84	31/813 (3.8%)	2.19	42/1244 (3.4%)
138	M5	1.83	37/959 (3.9%)	2.20	51/1467 (3.5%)
139	M6	1.89	22/565 (3.9%)	2.26	37/862 (4.3%)
140	M7	1.85	23/595 (3.9%)	2.22	32/909 (3.5%)
141	M8	1.88	25/592 (4.2%)	2.30	35/910 (3.8%)
142	M9	1.84	21/531 (4.0%)	2.27	29/815 (3.6%)
143	MA	1.92	39/999 (3.9%)	2.24	64/1526 (4.2%)
144	MC	1.82	21/530 (4.0%)	2.31	28/816 (3.4%)
145	MD	1.84	51/1323 (3.9%)	2.25	76/2022 (3.8%)
146	N2	1.84	21/555 (3.8%)	2.16	29/849 (3.4%)
147	N3	1.95	33/796 (4.1%)	2.33	50/1222 (4.1%)
148	N5	1.86	29/721 (4.0%)	2.28	40/1109 (3.6%)
149	N6	1.85	46/1158 (4.0%)	2.28	67/1773 (3.8%)
150	N7	1.93	22/532 (4.1%)	2.31	36/819 (4.4%)
151	N8	1.81	18/477 (3.8%)	2.28	29/728 (4.0%)
152	N9	1.83	45/1212 (3.7%)	2.17	62/1858 (3.3%)
153	NA	1.90	18/451 (4.0%)	2.24	25/695 (3.6%)
154	NC	1.87	33/871 (3.8%)	2.20	47/1333 (3.5%)
155	ND	1.83	18/471 (3.8%)	2.20	25/724 (3.5%)
156	O2	1.85	52/1370 (3.8%)	2.22	79/2092 (3.8%)
157	O3	1.78	21/562 (3.7%)	2.18	29/861 (3.4%)
158	O5	1.84	44/1129 (3.9%)	2.20	60/1729 (3.5%)
159	O6	1.89	21/526 (4.0%)	2.26	31/807 (3.8%)
160	O7	1.86	47/1203 (3.9%)	2.21	66/1845 (3.6%)
161	O8	1.85	52/1329 (3.9%)	2.24	73/2035 (3.6%)
162	O9	1.80	16/410 (3.9%)	2.23	24/626 (3.8%)
163	OA	1.94	18/437 (4.1%)	2.31	27/671 (4.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
164	OC	1.92	22/536 (4.1%)	2.32	36/819 (4.4%)
165	OD	1.81	51/1344 (3.8%)	2.21	71/2056 (3.5%)
166	P2	1.93	29/698 (4.2%)	2.35	46/1072 (4.3%)
167	P3	1.85	33/858 (3.8%)	2.24	49/1309 (3.7%)
168	P5	1.85	16/412 (3.9%)	2.27	26/631 (4.1%)
169	P6	1.91	16/418 (3.8%)	2.29	27/641 (4.2%)
170	P7	1.83	16/416 (3.8%)	2.24	23/637 (3.6%)
171	P8	1.85	22/530 (4.2%)	2.33	30/811 (3.7%)
172	P9	1.88	22/539 (4.1%)	2.26	29/827 (3.5%)
173	PA	1.85	34/877 (3.9%)	2.19	47/1343 (3.5%)
174	PC	1.91	21/533 (3.9%)	2.28	31/819 (3.8%)
175	PD	1.85	20/530 (3.8%)	2.22	30/810 (3.7%)
176	Q2	1.86	18/440 (4.1%)	2.26	24/676 (3.6%)
177	Q3	1.85	21/524 (4.0%)	2.27	30/804 (3.7%)
178	Q5	1.83	37/957 (3.9%)	2.26	54/1465 (3.7%)
179	Q7	1.92	22/529 (4.2%)	2.33	32/814 (3.9%)
180	Q8	1.87	22/545 (4.0%)	2.32	35/835 (4.2%)
181	Q9	1.82	34/882 (3.9%)	2.25	47/1347 (3.5%)
182	QA	1.91	25/653 (3.8%)	2.25	40/1002 (4.0%)
183	QC	1.84	20/527 (3.8%)	2.21	27/806 (3.3%)
184	QD	1.80	27/697 (3.9%)	2.21	37/1063 (3.5%)
185	R2	1.81	21/563 (3.7%)	2.23	31/863 (3.6%)
186	R3	1.90	16/412 (3.9%)	2.30	25/631 (4.0%)
187	R5	1.88	37/956 (3.9%)	2.25	59/1461 (4.0%)
188	R7	1.88	30/745 (4.0%)	2.29	43/1147 (3.7%)
189	R8	1.85	36/911 (4.0%)	2.21	48/1394 (3.4%)
190	R9	1.81	40/1058 (3.8%)	2.22	56/1618 (3.5%)
191	RA	1.84	24/622 (3.9%)	2.21	35/953 (3.7%)
192	RC	1.91	30/723 (4.1%)	2.32	44/1109 (4.0%)
193	RD	1.82	16/411 (3.9%)	2.19	21/628 (3.3%)
194	S2	1.89	28/697 (4.0%)	2.29	40/1072 (3.7%)
195	S3	1.88	26/650 (4.0%)	2.31	38/999 (3.8%)
196	S5	1.81	28/738 (3.8%)	2.24	43/1128 (3.8%)
197	S7	1.87	21/535 (3.9%)	2.22	33/815 (4.0%)
198	S8	1.84	35/912 (3.8%)	2.21	48/1394 (3.4%)
199	S9	1.91	21/538 (3.9%)	2.27	32/826 (3.9%)
200	SA	1.89	22/552 (4.0%)	2.30	33/847 (3.9%)
201	SC	1.90	18/443 (4.1%)	2.22	23/681 (3.4%)
202	SD	1.81	23/603 (3.8%)	2.20	31/923 (3.4%)
203	T2	1.89	22/550 (4.0%)	2.28	33/844 (3.9%)
204	T3	1.87	39/1022 (3.8%)	2.23	59/1563 (3.8%)
205	T5	1.89	22/542 (4.1%)	2.26	33/828 (4.0%)
206	T7	1.84	48/1315 (3.7%)	2.19	70/2013 (3.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
207	T8	1.88	22/557 (3.9%)	2.23	32/856 (3.7%)
208	T9	1.84	16/402 (4.0%)	2.27	23/614 (3.7%)
209	TA	1.84	36/971 (3.7%)	2.22	54/1485 (3.6%)
210	TC	1.82	23/597 (3.9%)	2.21	32/912 (3.5%)
211	TD	1.88	38/961 (4.0%)	2.28	56/1474 (3.8%)
212	U2	1.91	22/546 (4.0%)	2.24	32/837 (3.8%)
213	U3	1.83	23/609 (3.8%)	2.19	32/935 (3.4%)
214	U5	1.86	37/953 (3.9%)	2.26	53/1458 (3.6%)
215	U7	1.93	22/525 (4.2%)	2.30	31/808 (3.8%)
216	U8	1.82	21/555 (3.8%)	2.23	31/850 (3.6%)
217	U9	1.92	22/551 (4.0%)	2.29	33/846 (3.9%)
218	UA	1.86	17/443 (3.8%)	2.19	22/682 (3.2%)
219	UC	1.89	30/734 (4.1%)	2.27	42/1128 (3.7%)
220	UD	1.93	21/518 (4.1%)	2.32	31/793 (3.9%)
221	V2	1.83	24/615 (3.9%)	2.26	34/941 (3.6%)
222	V3	1.83	22/581 (3.8%)	2.23	29/891 (3.3%)
223	V5	1.86	36/946 (3.8%)	2.21	51/1448 (3.5%)
224	V7	1.87	16/412 (3.9%)	2.18	22/630 (3.5%)
225	V8	1.85	19/518 (3.7%)	2.16	28/793 (3.5%)
226	V9	1.83	30/791 (3.8%)	2.19	41/1211 (3.4%)
227	VA	1.84	25/664 (3.8%)	2.26	41/1015 (4.0%)
228	VC	1.87	36/924 (3.9%)	2.22	54/1416 (3.8%)
229	VD	1.80	18/493 (3.7%)	2.13	24/753 (3.2%)
230	W3	1.83	43/1125 (3.8%)	2.20	59/1722 (3.4%)
231	W5	1.85	28/714 (3.9%)	2.25	37/1097 (3.4%)
232	W7	1.92	22/520 (4.2%)	2.36	32/800 (4.0%)
233	W8	1.84	19/491 (3.9%)	2.21	25/754 (3.3%)
234	W9	1.84	17/445 (3.8%)	2.20	25/683 (3.7%)
235	WD	1.80	16/415 (3.9%)	2.25	21/635 (3.3%)
236	X5	1.86	19/479 (4.0%)	2.27	28/734 (3.8%)
237	X7	1.89	22/521 (4.2%)	2.29	31/799 (3.9%)
238	X9	1.83	51/1353 (3.8%)	2.22	75/2067 (3.6%)
All	All	1.89	13501/331404 (4.1%)	2.29	19511/509182 (3.8%)

All (13501) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4610	DC	O3'-P	12.07	1.79	1.61
47	DD	5	DC	O3'-P	12.07	1.79	1.61
70	G1	7	DC	O3'-P	12.07	1.79	1.61
11	AB	1820	DC	O3'-P	12.07	1.79	1.61
91	HD	18	DC	O3'-P	12.07	1.79	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	203	DC	O3'-P	12.06	1.79	1.61
11	AB	5011	DC	O3'-P	12.06	1.79	1.61
66	F9	14	DC	O3'-P	12.06	1.79	1.61
11	AB	2340	DC	O3'-P	12.06	1.79	1.61
11	AB	1100	DC	O3'-P	12.05	1.79	1.61
231	W5	34	DC	O3'-P	12.05	1.79	1.61
11	AB	260	DC	O3'-P	12.05	1.79	1.61
11	AB	5086	DC	O3'-P	12.05	1.79	1.61
11	AB	3167	DC	O3'-P	12.04	1.79	1.61
11	AB	4880	DC	O3'-P	12.04	1.79	1.61
98	I8	38	DC	O3'-P	12.04	1.79	1.61
107	J6	34	DC	O3'-P	12.04	1.79	1.61
28	C3	23	DC	O3'-P	12.03	1.79	1.61
212	U2	19	DC	O3'-P	12.04	1.79	1.61
42	D7	13	DC	O3'-P	12.03	1.79	1.61
11	AB	6645	DC	O3'-P	12.03	1.79	1.61
11	AB	365	DC	O3'-P	12.03	1.79	1.61
11	AB	686	DC	O3'-P	12.02	1.79	1.61
72	G3	13	DC	O3'-P	12.02	1.79	1.61
175	PD	19	DC	O3'-P	12.02	1.79	1.61
93	I2	18	DC	O3'-P	12.02	1.79	1.61
169	P6	6	DC	O3'-P	12.02	1.79	1.61
11	AB	1997	DC	O3'-P	12.02	1.79	1.61
53	E7	12	DC	O3'-P	12.02	1.79	1.61
11	AB	5992	DC	O3'-P	12.02	1.79	1.61
52	E6	6	DC	O3'-P	12.02	1.79	1.61
163	OA	11	DC	O3'-P	12.02	1.79	1.61
11	AB	4003	DC	O3'-P	12.02	1.79	1.61
122	KA	2	DC	O3'-P	12.02	1.79	1.61
116	K3	14	DC	O3'-P	12.01	1.79	1.61
3	A3	12	DC	O3'-P	12.01	1.79	1.61
11	AB	3207	DC	O3'-P	12.01	1.79	1.61
11	AB	4589	DC	O3'-P	12.01	1.79	1.61
11	AB	5018	DC	O3'-P	12.01	1.79	1.61
164	OC	10	DC	O3'-P	12.01	1.79	1.61
217	U9	22	DC	O3'-P	12.01	1.79	1.61
11	AB	944	DC	O3'-P	12.01	1.79	1.61
152	N9	25	DC	O3'-P	12.01	1.79	1.61
166	P2	12	DC	O3'-P	12.01	1.79	1.61
39	D3	9	DC	O3'-P	12.01	1.79	1.61
78	GA	1	DC	O3'-P	12.01	1.79	1.61
93	I2	29	DC	O3'-P	12.01	1.79	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
115	K2	10	DC	O3'-P	12.01	1.79	1.61
220	UD	6	DC	O3'-P	12.01	1.79	1.61
11	AB	658	DC	O3'-P	12.00	1.79	1.61
236	X5	18	DC	O3'-P	12.00	1.79	1.61
11	AB	5214	DC	O3'-P	12.00	1.79	1.61
111	JA	9	DC	O3'-P	12.00	1.79	1.61
11	AB	2525	DC	O3'-P	12.00	1.79	1.61
11	AB	3490	DC	O3'-P	12.00	1.79	1.61
11	AB	4104	DC	O3'-P	12.00	1.79	1.61
11	AB	5532	DC	O3'-P	12.00	1.79	1.61
13	AD	15	DC	O3'-P	12.00	1.79	1.61
150	N7	19	DC	O3'-P	12.00	1.79	1.61
205	T5	1	DC	O3'-P	12.00	1.79	1.61
238	X9	36	DC	O3'-P	12.00	1.79	1.61
11	AB	3291	DC	O3'-P	12.00	1.79	1.61
11	AB	1814	DC	O3'-P	12.00	1.79	1.61
58	ED	36	DC	O3'-P	12.00	1.79	1.61
94	I3	46	DC	O3'-P	12.00	1.79	1.61
148	N5	11	DC	O3'-P	12.00	1.79	1.61
211	TD	38	DC	O3'-P	12.00	1.79	1.61
230	W3	36	DC	O3'-P	12.00	1.79	1.61
11	AB	3457	DC	O3'-P	11.99	1.79	1.61
11	AB	3524	DC	O3'-P	11.99	1.79	1.61
11	AB	4117	DC	O3'-P	11.99	1.79	1.61
11	AB	4735	DC	O3'-P	11.99	1.79	1.61
11	AB	6063	DC	O3'-P	11.99	1.79	1.61
45	DA	19	DC	O3'-P	11.99	1.79	1.61
11	AB	4086	DC	O3'-P	11.99	1.79	1.61
11	AB	4232	DC	O3'-P	11.99	1.79	1.61
11	AB	4997	DC	O3'-P	11.99	1.79	1.61
11	AB	6186	DC	O3'-P	11.99	1.79	1.61
49	E2	5	DC	O3'-P	11.99	1.79	1.61
49	E2	39	DC	O3'-P	11.99	1.79	1.61
167	P3	8	DC	O3'-P	11.99	1.79	1.61
177	Q3	18	DC	O3'-P	11.99	1.79	1.61
190	R9	44	DC	O3'-P	11.99	1.79	1.61
222	V3	16	DC	O3'-P	11.99	1.79	1.61
238	X9	54	DC	O3'-P	11.99	1.79	1.61
11	AB	5454	DC	O3'-P	11.99	1.79	1.61
11	AB	3565	DC	O3'-P	11.99	1.79	1.61
11	AB	5447	DC	O3'-P	11.99	1.79	1.61
32	C8	27	DC	O3'-P	11.99	1.79	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
229	VD	4	DC	O3'-P	11.99	1.79	1.61
94	I3	49	DC	O3'-P	11.99	1.79	1.61
113	JD	13	DC	O3'-P	11.99	1.79	1.61
200	SA	25	DC	O3'-P	11.99	1.79	1.61
11	AB	737	DC	O3'-P	11.99	1.79	1.61
11	AB	857	DC	O3'-P	11.99	1.79	1.61
11	AB	1942	DC	O3'-P	11.99	1.79	1.61
143	MA	10	DC	O3'-P	11.99	1.79	1.61
182	QA	1	DC	O3'-P	11.99	1.79	1.61
186	R3	18	DC	O3'-P	11.99	1.79	1.61
214	U5	6	DC	O3'-P	11.99	1.79	1.61
223	V5	5	DC	O3'-P	11.99	1.79	1.61
11	AB	1723	DC	O3'-P	11.98	1.79	1.61
164	OC	13	DC	O3'-P	11.98	1.79	1.61
187	R5	9	DC	O3'-P	11.98	1.79	1.61
214	U5	26	DC	O3'-P	11.98	1.79	1.61
11	AB	860	DC	O3'-P	11.98	1.79	1.61
11	AB	968	DC	O3'-P	11.98	1.79	1.61
11	AB	2208	DC	O3'-P	11.98	1.79	1.61
11	AB	2523	DC	O3'-P	11.98	1.79	1.61
11	AB	4481	DC	O3'-P	11.98	1.79	1.61
11	AB	5071	DC	O3'-P	11.98	1.79	1.61
11	AB	6591	DC	O3'-P	11.98	1.79	1.61
52	E6	15	DC	O3'-P	11.98	1.79	1.61
182	QA	5	DC	O3'-P	11.98	1.79	1.61
11	AB	1982	DC	O3'-P	11.98	1.79	1.61
11	AB	4599	DC	O3'-P	11.98	1.79	1.61
11	AB	7242	DC	O3'-P	11.98	1.79	1.61
14	B1	31	DC	O3'-P	11.98	1.79	1.61
143	MA	44	DC	O3'-P	11.98	1.79	1.61
169	P6	11	DC	O3'-P	11.98	1.79	1.61
11	AB	2027	DC	O3'-P	11.98	1.79	1.61
11	AB	2205	DC	O3'-P	11.98	1.79	1.61
11	AB	4084	DC	O3'-P	11.98	1.79	1.61
91	HD	24	DC	O3'-P	11.98	1.79	1.61
134	LC	17	DC	O3'-P	11.98	1.79	1.61
11	AB	2976	DC	O3'-P	11.97	1.79	1.61
11	AB	4089	DC	O3'-P	11.97	1.79	1.61
73	G5	13	DC	O3'-P	11.97	1.79	1.61
11	AB	3620	DC	O3'-P	11.97	1.79	1.61
11	AB	4666	DC	O3'-P	11.97	1.79	1.61
11	AB	4883	DC	O3'-P	11.97	1.79	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	D5	5	DC	O3'-P	11.97	1.79	1.61
156	O2	38	DC	O3'-P	11.97	1.79	1.61
218	UA	15	DC	O3'-P	11.97	1.79	1.61
163	OA	3	DC	O3'-P	11.97	1.79	1.61
11	AB	929	DC	O3'-P	11.97	1.79	1.61
11	AB	1980	DC	O3'-P	11.97	1.79	1.61
11	AB	2590	DC	O3'-P	11.97	1.79	1.61
11	AB	3780	DC	O3'-P	11.97	1.79	1.61
11	AB	4247	DC	O3'-P	11.97	1.79	1.61
11	AB	4289	DC	O3'-P	11.97	1.79	1.61
11	AB	7077	DC	O3'-P	11.97	1.79	1.61
191	RA	14	DC	O3'-P	11.97	1.79	1.61
61	F3	16	DC	O3'-P	11.97	1.79	1.61
204	T3	2	DC	O3'-P	11.97	1.79	1.61
224	V7	15	DC	O3'-P	11.97	1.79	1.61
11	AB	1088	DC	O3'-P	11.97	1.79	1.61
11	AB	7090	DC	O3'-P	11.97	1.79	1.61
18	B5	2	DC	O3'-P	11.97	1.79	1.61
94	I3	19	DC	O3'-P	11.97	1.79	1.61
11	AB	6580	DC	O3'-P	11.97	1.79	1.61
11	AB	7186	DC	O3'-P	11.97	1.79	1.61
154	NC	23	DC	O3'-P	11.97	1.79	1.61
211	TD	40	DC	O3'-P	11.97	1.79	1.61
11	AB	823	DC	O3'-P	11.97	1.79	1.61
11	AB	1124	DC	O3'-P	11.97	1.79	1.61
11	AB	1019	DC	O3'-P	11.96	1.79	1.61
11	AB	1525	DC	O3'-P	11.96	1.79	1.61
128	L5	3	DC	O3'-P	11.97	1.79	1.61
227	VA	21	DC	O3'-P	11.96	1.79	1.61
11	AB	3474	DC	O3'-P	11.96	1.79	1.61
11	AB	4144	DC	O3'-P	11.96	1.79	1.61
11	AB	5592	DC	O3'-P	11.96	1.79	1.61
72	G3	10	DC	O3'-P	11.96	1.79	1.61
181	Q9	15	DC	O3'-P	11.96	1.79	1.61
3	A3	9	DC	O3'-P	11.96	1.79	1.61
11	AB	3019	DC	O3'-P	11.96	1.79	1.61
11	AB	4132	DC	O3'-P	11.96	1.79	1.61
11	AB	4321	DC	O3'-P	11.96	1.79	1.61
11	AB	4331	DC	O3'-P	11.96	1.79	1.61
11	AB	4806	DC	O3'-P	11.96	1.79	1.61
11	AB	5440	DC	O3'-P	11.96	1.79	1.61
11	AB	6948	DC	O3'-P	11.96	1.79	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
147	N3	6	DC	O3'-P	11.96	1.79	1.61
159	O6	6	DC	O3'-P	11.96	1.79	1.61
182	QA	23	DC	O3'-P	11.96	1.79	1.61
192	RC	27	DC	O3'-P	11.96	1.79	1.61
219	UC	30	DC	O3'-P	11.96	1.79	1.61
11	AB	950	DC	O3'-P	11.96	1.79	1.61
11	AB	2995	DC	O3'-P	11.96	1.79	1.61
30	C6	40	DC	O3'-P	11.96	1.79	1.61
156	O2	53	DC	O3'-P	11.96	1.79	1.61
11	AB	4541	DC	O3'-P	11.96	1.79	1.61
11	AB	4730	DC	O3'-P	11.96	1.79	1.61
113	JD	25	DC	O3'-P	11.96	1.79	1.61
11	AB	4867	DC	O3'-P	11.96	1.79	1.61
59	F1	1	DC	O3'-P	11.96	1.79	1.61
147	N3	18	DC	O3'-P	11.96	1.79	1.61
149	N6	35	DC	O3'-P	11.96	1.79	1.61
37	D1	10	DC	O3'-P	11.96	1.79	1.61
227	VA	23	DC	O3'-P	11.96	1.79	1.61
11	AB	3610	DC	O3'-P	11.95	1.79	1.61
11	AB	3756	DC	O3'-P	11.95	1.79	1.61
11	AB	5865	DC	O3'-P	11.95	1.79	1.61
11	AB	6723	DC	O3'-P	11.95	1.79	1.61
129	L6	24	DC	O3'-P	11.96	1.79	1.61
11	AB	4255	DC	O3'-P	11.95	1.79	1.61
11	AB	4302	DC	O3'-P	11.95	1.79	1.61
145	MD	14	DC	O3'-P	11.95	1.79	1.61
207	T8	21	DC	O3'-P	11.95	1.79	1.61
11	AB	7201	DC	O3'-P	11.95	1.79	1.61
76	G8	14	DC	O3'-P	11.95	1.79	1.61
88	H9	19	DC	O3'-P	11.95	1.79	1.61
145	MD	32	DC	O3'-P	11.95	1.79	1.61
11	AB	5149	DC	O3'-P	11.95	1.79	1.61
11	AB	443	DC	O3'-P	11.95	1.79	1.61
11	AB	4111	DC	O3'-P	11.95	1.79	1.61
11	AB	4601	DC	O3'-P	11.95	1.79	1.61
11	AB	6412	DC	O3'-P	11.95	1.79	1.61
72	G3	19	DC	O3'-P	11.95	1.79	1.61
143	MA	13	DC	O3'-P	11.95	1.79	1.61
147	N3	24	DC	O3'-P	11.95	1.79	1.61
182	QA	17	DC	O3'-P	11.95	1.79	1.61
11	AB	2434	DC	O3'-P	11.95	1.79	1.61
11	AB	2673	DC	O3'-P	11.95	1.79	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3567	DC	O3'-P	11.95	1.79	1.61
11	AB	2055	DC	O3'-P	11.94	1.79	1.61
22	B9	33	DC	O3'-P	11.95	1.79	1.61
41	D6	4	DC	O3'-P	11.95	1.79	1.61
11	AB	1407	DC	O3'-P	11.94	1.79	1.61
11	AB	3141	DC	O3'-P	11.94	1.79	1.61
11	AB	4758	DC	O3'-P	11.94	1.79	1.61
11	AB	4942	DC	O3'-P	11.94	1.79	1.61
11	AB	6572	DC	O3'-P	11.94	1.79	1.61
11	AB	6881	DC	O3'-P	11.94	1.79	1.61
79	GC	2	DC	O3'-P	11.94	1.79	1.61
79	GC	16	DC	O3'-P	11.94	1.79	1.61
137	M3	25	DC	O3'-P	11.94	1.79	1.61
161	O8	27	DC	O3'-P	11.94	1.79	1.61
228	VC	32	DC	O3'-P	11.94	1.79	1.61
11	AB	6493	DC	O3'-P	11.94	1.79	1.61
82	H2	29	DC	O3'-P	11.94	1.79	1.61
11	AB	1810	DC	O3'-P	11.94	1.79	1.61
11	AB	2083	DC	O3'-P	11.94	1.79	1.61
11	AB	4430	DC	O3'-P	11.94	1.79	1.61
11	AB	4952	DC	O3'-P	11.94	1.79	1.61
209	TA	24	DC	O3'-P	11.94	1.79	1.61
11	AB	4671	DC	O3'-P	11.94	1.79	1.61
55	E9	17	DC	O3'-P	11.94	1.79	1.61
90	HC	14	DC	O3'-P	11.94	1.79	1.61
11	AB	627	DC	O3'-P	11.94	1.79	1.61
69	FD	45	DC	O3'-P	11.94	1.79	1.61
11	AB	1390	DC	O3'-P	11.93	1.79	1.61
11	AB	2266	DC	O3'-P	11.93	1.79	1.61
11	AB	3528	DC	O3'-P	11.93	1.79	1.61
11	AB	4106	DC	O3'-P	11.93	1.79	1.61
14	B1	8	DC	O3'-P	11.93	1.79	1.61
48	E1	13	DC	O3'-P	11.93	1.79	1.61
178	Q5	4	DC	O3'-P	11.93	1.79	1.61
10	AA	10	DC	O3'-P	11.93	1.79	1.61
11	AB	4436	DC	O3'-P	11.93	1.79	1.61
11	AB	4800	DC	O3'-P	11.93	1.79	1.61
11	AB	5133	DC	O3'-P	11.93	1.79	1.61
119	K7	8	DC	O3'-P	11.93	1.79	1.61
150	N7	12	DC	O3'-P	11.93	1.79	1.61
11	AB	1227	DC	O3'-P	11.93	1.79	1.61
11	AB	6430	DC	O3'-P	11.93	1.79	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
199	S9	9	DC	O3'-P	11.93	1.79	1.61
11	AB	2414	DC	O3'-P	11.93	1.79	1.61
11	AB	3984	DC	O3'-P	11.93	1.79	1.61
22	B9	16	DC	O3'-P	11.93	1.79	1.61
133	LA	18	DC	O3'-P	11.93	1.79	1.61
166	P2	10	DC	O3'-P	11.93	1.79	1.61
178	Q5	8	DC	O3'-P	11.93	1.79	1.61
5	A5	24	DC	O3'-P	11.92	1.79	1.61
11	AB	2109	DC	O3'-P	11.92	1.79	1.61
217	U9	19	DC	O3'-P	11.92	1.79	1.61
88	H9	29	DC	O3'-P	11.92	1.79	1.61
167	P3	2	DC	O3'-P	11.92	1.79	1.61
11	AB	4870	DC	O3'-P	11.92	1.79	1.61
11	AB	6478	DC	O3'-P	11.92	1.79	1.61
11	AB	5863	DC	O3'-P	11.91	1.79	1.61
11	AB	4140	DC	O3'-P	11.91	1.79	1.61
11	AB	4603	DC	O3'-P	11.91	1.79	1.61
11	AB	6348	DC	O3'-P	11.91	1.79	1.61
145	MD	12	DC	O3'-P	11.91	1.79	1.61
112	JC	3	DC	O3'-P	11.91	1.79	1.61
223	V5	2	DC	O3'-P	11.91	1.79	1.61
11	AB	2172	DC	O3'-P	11.91	1.79	1.61
63	F6	10	DC	O3'-P	11.91	1.79	1.61
11	AB	428	DC	O3'-P	11.91	1.79	1.61
83	H3	36	DC	O3'-P	11.91	1.79	1.61
99	I9	26	DC	O3'-P	11.91	1.79	1.61
1	A1	52	DC	O3'-P	11.90	1.79	1.61
11	AB	1255	DC	O3'-P	11.90	1.79	1.61
11	AB	5095	DC	O3'-P	11.90	1.79	1.61
125	L1	5	DC	O3'-P	11.90	1.79	1.61
11	AB	7207	DC	O3'-P	11.90	1.79	1.61
11	AB	6336	DC	O3'-P	11.90	1.78	1.61
226	V9	21	DC	O3'-P	11.90	1.78	1.61
11	AB	2655	DC	O3'-P	11.90	1.78	1.61
25	BD	6	DC	O3'-P	11.90	1.78	1.61
11	AB	1266	DC	O3'-P	11.89	1.78	1.61
11	AB	2170	DC	O3'-P	11.89	1.78	1.61
11	AB	5703	DC	O3'-P	11.89	1.78	1.61
72	G3	25	DC	O3'-P	11.89	1.78	1.61
11	AB	2454	DC	O3'-P	11.89	1.78	1.61
11	AB	2312	DC	O3'-P	11.89	1.78	1.61
11	AB	6169	DC	O3'-P	11.89	1.78	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5166	DC	O3'-P	11.89	1.78	1.61
11	AB	6167	DC	O3'-P	11.89	1.78	1.61
65	F8	10	DC	O3'-P	11.89	1.78	1.61
11	AB	293	DC	O3'-P	11.88	1.78	1.61
176	Q2	14	DC	O3'-P	11.89	1.78	1.61
11	AB	15	DC	O3'-P	11.88	1.78	1.61
11	AB	7215	DC	O3'-P	11.88	1.78	1.61
104	J2	15	DC	O3'-P	11.88	1.78	1.61
139	M6	20	DC	O3'-P	11.88	1.78	1.61
35	CC	17	DC	O3'-P	11.88	1.78	1.61
58	ED	30	DC	O3'-P	11.88	1.78	1.61
87	H8	18	DC	O3'-P	11.88	1.78	1.61
11	AB	3954	DC	O3'-P	11.88	1.78	1.61
116	K3	5	DC	O3'-P	11.88	1.78	1.61
11	AB	3730	DC	O3'-P	11.87	1.78	1.61
130	L7	29	DC	O3'-P	11.87	1.78	1.61
213	U3	4	DC	O3'-P	11.88	1.78	1.61
33	C9	5	DC	O3'-P	11.87	1.78	1.61
11	AB	2919	DC	O3'-P	11.87	1.78	1.61
54	E8	27	DC	O3'-P	11.87	1.78	1.61
1	A1	28	DC	O3'-P	11.87	1.78	1.61
115	K2	36	DC	O3'-P	11.87	1.78	1.61
10	AA	19	DC	O3'-P	11.87	1.78	1.61
43	D8	24	DC	O3'-P	11.87	1.78	1.61
48	E1	25	DC	O3'-P	11.86	1.78	1.61
120	K8	7	DC	O3'-P	11.86	1.78	1.61
126	L2	35	DC	O3'-P	11.86	1.78	1.61
11	AB	4211	DC	O3'-P	11.86	1.78	1.61
11	AB	4975	DC	O3'-P	11.86	1.78	1.61
11	AB	7058	DC	O3'-P	11.86	1.78	1.61
56	EA	19	DC	O3'-P	11.86	1.78	1.61
144	MC	3	DC	O3'-P	11.86	1.78	1.61
11	AB	6433	DC	O3'-P	11.86	1.78	1.61
103	J1	25	DC	O3'-P	11.86	1.78	1.61
11	AB	288	DC	O3'-P	11.86	1.78	1.61
161	O8	50	DC	O3'-P	11.86	1.78	1.61
225	V8	21	DC	O3'-P	11.86	1.78	1.61
11	AB	1449	DC	O3'-P	11.85	1.78	1.61
97	I7	7	DC	O3'-P	11.85	1.78	1.61
115	K2	19	DC	O3'-P	11.85	1.78	1.61
11	AB	5908	DC	O3'-P	11.85	1.78	1.61
153	NA	6	DC	O3'-P	11.85	1.78	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1913	DC	O3'-P	11.85	1.78	1.61
42	D7	17	DC	O3'-P	11.85	1.78	1.61
68	FC	6	DC	O3'-P	11.85	1.78	1.61
11	AB	535	DC	O3'-P	11.85	1.78	1.61
11	AB	1668	DC	O3'-P	11.85	1.78	1.61
11	AB	2539	DC	O3'-P	11.85	1.78	1.61
11	AB	4017	DC	O3'-P	11.85	1.78	1.61
11	AB	6278	DC	O3'-P	11.85	1.78	1.61
11	AB	4397	DC	O3'-P	11.85	1.78	1.61
11	AB	5034	DC	O3'-P	11.85	1.78	1.61
11	AB	998	DC	O3'-P	11.84	1.78	1.61
11	AB	1118	DC	O3'-P	11.84	1.78	1.61
11	AB	1738	DC	O3'-P	11.84	1.78	1.61
11	AB	5682	DC	O3'-P	11.84	1.78	1.61
11	AB	5052	DC	O3'-P	11.84	1.78	1.61
11	AB	5122	DC	O3'-P	11.84	1.78	1.61
11	AB	7246	DC	O3'-P	11.84	1.78	1.61
196	S5	8	DC	O3'-P	11.84	1.78	1.61
30	C6	32	DC	O3'-P	11.84	1.78	1.61
11	AB	5190	DC	O3'-P	11.84	1.78	1.61
11	AB	6145	DC	O3'-P	11.84	1.78	1.61
23	BA	15	DC	O3'-P	11.84	1.78	1.61
232	W7	22	DC	O3'-P	11.84	1.78	1.61
11	AB	1335	DC	O3'-P	11.84	1.78	1.61
11	AB	4970	DC	O3'-P	11.84	1.78	1.61
11	AB	4979	DC	O3'-P	11.84	1.78	1.61
11	AB	6981	DC	O3'-P	11.84	1.78	1.61
11	AB	7173	DC	O3'-P	11.84	1.78	1.61
232	W7	18	DC	O3'-P	11.84	1.78	1.61
11	AB	4186	DC	O3'-P	11.84	1.78	1.61
11	AB	6998	DC	O3'-P	11.84	1.78	1.61
79	GC	11	DC	O3'-P	11.84	1.78	1.61
168	P5	2	DC	O3'-P	11.84	1.78	1.61
11	AB	52	DC	O3'-P	11.83	1.78	1.61
11	AB	5199	DC	O3'-P	11.83	1.78	1.61
11	AB	5261	DC	O3'-P	11.83	1.78	1.61
12	AC	17	DC	O3'-P	11.83	1.78	1.61
59	F1	17	DC	O3'-P	11.83	1.78	1.61
69	FD	43	DC	O3'-P	11.83	1.78	1.61
11	AB	4903	DC	O3'-P	11.83	1.78	1.61
44	D9	29	DC	O3'-P	11.83	1.78	1.61
98	I8	31	DC	O3'-P	11.83	1.78	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
174	PC	6	DC	O3'-P	11.83	1.78	1.61
11	AB	81	DC	O3'-P	11.83	1.78	1.61
11	AB	4632	DC	O3'-P	11.83	1.78	1.61
11	AB	6916	DC	O3'-P	11.83	1.78	1.61
33	C9	19	DC	O3'-P	11.83	1.78	1.61
11	AB	1196	DC	O3'-P	11.82	1.78	1.61
11	AB	1468	DC	O3'-P	11.82	1.78	1.61
11	AB	4060	DC	O3'-P	11.82	1.78	1.61
11	AB	5128	DC	O3'-P	11.82	1.78	1.61
11	AB	5742	DC	O3'-P	11.82	1.78	1.61
38	D2	13	DC	O3'-P	11.82	1.78	1.61
11	AB	2714	DC	O3'-P	11.82	1.78	1.61
11	AB	2717	DC	O3'-P	11.82	1.78	1.61
11	AB	3878	DC	O3'-P	11.82	1.78	1.61
11	AB	4035	DC	O3'-P	11.82	1.78	1.61
11	AB	4196	DC	O3'-P	11.82	1.78	1.61
41	D6	26	DC	O3'-P	11.82	1.78	1.61
93	I2	40	DC	O3'-P	11.82	1.78	1.61
97	I7	32	DC	O3'-P	11.82	1.78	1.61
139	M6	18	DC	O3'-P	11.82	1.78	1.61
173	PA	37	DC	O3'-P	11.82	1.78	1.61
209	TA	13	DC	O3'-P	11.82	1.78	1.61
11	AB	43	DC	O3'-P	11.82	1.78	1.61
11	AB	1348	DC	O3'-P	11.82	1.78	1.61
11	AB	5555	DC	O3'-P	11.82	1.78	1.61
11	AB	6832	DC	O3'-P	11.82	1.78	1.61
26	C1	3	DC	O3'-P	11.82	1.78	1.61
43	D8	39	DC	O3'-P	11.82	1.78	1.61
84	H5	2	DC	O3'-P	11.82	1.78	1.61
131	L8	24	DC	O3'-P	11.82	1.78	1.61
187	R5	19	DC	O3'-P	11.82	1.78	1.61
11	AB	1659	DC	O3'-P	11.82	1.78	1.61
11	AB	767	DC	O3'-P	11.82	1.78	1.61
11	AB	2450	DC	O3'-P	11.82	1.78	1.61
11	AB	2925	DC	O3'-P	11.82	1.78	1.61
11	AB	4343	DC	O3'-P	11.82	1.78	1.61
47	DD	45	DC	O3'-P	11.82	1.78	1.61
52	E6	32	DC	O3'-P	11.82	1.78	1.61
96	I6	4	DC	O3'-P	11.82	1.78	1.61
133	LA	11	DC	O3'-P	11.82	1.78	1.61
160	O7	11	DC	O3'-P	11.82	1.78	1.61
11	AB	329	DC	O3'-P	11.81	1.78	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3229	DC	O3'-P	11.81	1.78	1.61
11	AB	4573	DC	O3'-P	11.81	1.78	1.61
11	AB	6444	DC	O3'-P	11.81	1.78	1.61
11	AB	6787	DC	O3'-P	11.81	1.78	1.61
11	AB	6848	DC	O3'-P	11.81	1.78	1.61
85	H6	28	DC	O3'-P	11.81	1.78	1.61
183	QC	18	DC	O3'-P	11.81	1.78	1.61
11	AB	4153	DC	O3'-P	11.81	1.78	1.61
11	AB	4174	DC	O3'-P	11.81	1.78	1.61
11	AB	6610	DC	O3'-P	11.81	1.78	1.61
106	J5	20	DC	O3'-P	11.81	1.78	1.61
11	AB	1190	DC	O3'-P	11.81	1.78	1.61
33	C9	12	DC	O3'-P	11.81	1.78	1.61
50	E3	3	DC	O3'-P	11.81	1.78	1.61
165	OD	50	DC	O3'-P	11.81	1.78	1.61
178	Q5	37	DC	O3'-P	11.81	1.78	1.61
201	SC	18	DC	O3'-P	11.81	1.78	1.61
204	T3	22	DC	O3'-P	11.81	1.78	1.61
11	AB	1037	DC	O3'-P	11.81	1.78	1.61
11	AB	3679	DC	O3'-P	11.81	1.78	1.61
11	AB	1904	DC	O3'-P	11.81	1.78	1.61
11	AB	2940	DC	O3'-P	11.81	1.78	1.61
11	AB	3959	DC	O3'-P	11.81	1.78	1.61
11	AB	5098	DC	O3'-P	11.81	1.78	1.61
11	AB	5202	DC	O3'-P	11.81	1.78	1.61
11	AB	6939	DC	O3'-P	11.81	1.78	1.61
97	I7	10	DC	O3'-P	11.81	1.78	1.61
143	MA	39	DC	O3'-P	11.81	1.78	1.61
203	T2	21	DC	O3'-P	11.81	1.78	1.61
220	UD	18	DC	O3'-P	11.81	1.78	1.61
11	AB	1897	DC	O3'-P	11.80	1.78	1.61
104	J2	25	DC	O3'-P	11.81	1.78	1.61
166	P2	20	DC	O3'-P	11.81	1.78	1.61
11	AB	2012	DC	O3'-P	11.80	1.78	1.61
11	AB	2036	DC	O3'-P	11.80	1.78	1.61
11	AB	2876	DC	O3'-P	11.80	1.78	1.61
11	AB	2884	DC	O3'-P	11.80	1.78	1.61
11	AB	3722	DC	O3'-P	11.80	1.78	1.61
11	AB	4179	DC	O3'-P	11.80	1.78	1.61
11	AB	5345	DC	O3'-P	11.80	1.78	1.61
11	AB	5945	DC	O3'-P	11.80	1.78	1.61
38	D2	16	DC	O3'-P	11.80	1.78	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
70	G1	15	DC	O3'-P	11.80	1.78	1.61
102	ID	31	DC	O3'-P	11.80	1.78	1.61
191	RA	25	DC	O3'-P	11.80	1.78	1.61
204	T3	13	DC	O3'-P	11.80	1.78	1.61
206	T7	1	DC	O3'-P	11.80	1.78	1.61
11	AB	2297	DC	O3'-P	11.80	1.78	1.61
11	AB	4183	DC	O3'-P	11.80	1.78	1.61
11	AB	5278	DC	O3'-P	11.80	1.78	1.61
58	ED	8	DC	O3'-P	11.80	1.78	1.61
11	AB	1612	DC	O3'-P	11.80	1.78	1.61
11	AB	4072	DC	O3'-P	11.80	1.78	1.61
158	O5	26	DC	O3'-P	11.80	1.78	1.61
11	AB	4919	DC	O3'-P	11.80	1.78	1.61
11	AB	6708	DC	O3'-P	11.80	1.78	1.61
12	AC	19	DC	O3'-P	11.80	1.78	1.61
24	BC	5	DC	O3'-P	11.80	1.78	1.61
156	O2	17	DC	O3'-P	11.80	1.78	1.61
206	T7	20	DC	O3'-P	11.80	1.78	1.61
11	AB	4028	DC	O3'-P	11.80	1.78	1.61
11	AB	4062	DC	O3'-P	11.80	1.78	1.61
11	AB	4488	DC	O3'-P	11.80	1.78	1.61
11	AB	4516	DC	O3'-P	11.80	1.78	1.61
11	AB	4960	DC	O3'-P	11.80	1.78	1.61
20	B7	8	DC	O3'-P	11.80	1.78	1.61
21	B8	11	DC	O3'-P	11.80	1.78	1.61
79	GC	13	DC	O3'-P	11.80	1.78	1.61
110	J9	19	DC	O3'-P	11.80	1.78	1.61
199	S9	21	DC	O3'-P	11.80	1.78	1.61
221	V2	6	DC	O3'-P	11.80	1.78	1.61
11	AB	884	DC	O3'-P	11.80	1.78	1.61
11	AB	2886	DC	O3'-P	11.80	1.78	1.61
23	BA	9	DC	O3'-P	11.80	1.78	1.61
113	JD	32	DC	O3'-P	11.80	1.78	1.61
123	KC	20	DC	O3'-P	11.80	1.78	1.61
209	TA	28	DC	O3'-P	11.80	1.78	1.61
11	AB	3211	DC	O3'-P	11.79	1.78	1.61
11	AB	4836	DC	O3'-P	11.79	1.78	1.61
11	AB	5259	DC	O3'-P	11.79	1.78	1.61
11	AB	6217	DC	O3'-P	11.79	1.78	1.61
11	AB	6906	DC	O3'-P	11.79	1.78	1.61
51	E5	10	DC	O3'-P	11.79	1.78	1.61
35	CC	27	DC	O3'-P	11.79	1.78	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
106	J5	32	DC	O3'-P	11.79	1.78	1.61
110	J9	17	DC	O3'-P	11.79	1.78	1.61
11	AB	914	DC	O3'-P	11.79	1.78	1.61
11	AB	1283	DC	O3'-P	11.79	1.78	1.61
11	AB	4812	DC	O3'-P	11.79	1.78	1.61
11	AB	7011	DC	O3'-P	11.79	1.78	1.61
28	C3	7	DC	O3'-P	11.79	1.78	1.61
119	K7	28	DC	O3'-P	11.79	1.78	1.61
195	S3	6	DC	O3'-P	11.79	1.78	1.61
200	SA	7	DC	O3'-P	11.79	1.78	1.61
11	AB	524	DC	O3'-P	11.79	1.78	1.61
11	AB	4075	DC	O3'-P	11.79	1.78	1.61
11	AB	6157	DC	O3'-P	11.79	1.78	1.61
11	AB	6330	DC	O3'-P	11.79	1.78	1.61
11	AB	6996	DC	O3'-P	11.79	1.78	1.61
60	F2	23	DC	O3'-P	11.79	1.78	1.61
109	J8	43	DC	O3'-P	11.79	1.78	1.61
11	AB	149	DC	O3'-P	11.79	1.78	1.61
11	AB	479	DC	O3'-P	11.79	1.78	1.61
197	S7	5	DC	O3'-P	11.79	1.78	1.61
238	X9	2	DC	O3'-P	11.79	1.78	1.61
11	AB	6900	DC	O3'-P	11.79	1.78	1.61
47	DD	33	DC	O3'-P	11.79	1.78	1.61
198	S8	33	DC	O3'-P	11.79	1.78	1.61
209	TA	17	DC	O3'-P	11.79	1.78	1.61
11	AB	6764	DC	O3'-P	11.78	1.78	1.61
179	Q7	6	DC	O3'-P	11.78	1.78	1.61
216	U8	13	DC	O3'-P	11.79	1.78	1.61
11	AB	350	DC	O3'-P	11.78	1.78	1.61
11	AB	3813	DC	O3'-P	11.78	1.78	1.61
11	AB	3912	DC	O3'-P	11.78	1.78	1.61
11	AB	4041	DC	O3'-P	11.78	1.78	1.61
11	AB	4461	DC	O3'-P	11.78	1.78	1.61
11	AB	5178	DC	O3'-P	11.78	1.78	1.61
11	AB	7168	DC	O3'-P	11.78	1.78	1.61
24	BC	10	DC	O3'-P	11.78	1.78	1.61
51	E5	6	DC	O3'-P	11.78	1.78	1.61
159	O6	9	DC	O3'-P	11.78	1.78	1.61
179	Q7	12	DC	O3'-P	11.78	1.78	1.61
11	AB	167	DC	O3'-P	11.78	1.78	1.61
11	AB	458	DC	O3'-P	11.78	1.78	1.61
11	AB	749	DC	O3'-P	11.78	1.78	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1076	DC	O3'-P	11.78	1.78	1.61
11	AB	272	DC	O3'-P	11.78	1.78	1.61
11	AB	2372	DC	O3'-P	11.78	1.78	1.61
11	AB	4313	DC	O3'-P	11.78	1.78	1.61
55	E9	21	DC	O3'-P	11.78	1.78	1.61
86	H7	23	DC	O3'-P	11.78	1.78	1.61
11	AB	7156	DC	O3'-P	11.78	1.78	1.61
11	AB	1921	DC	O3'-P	11.78	1.78	1.61
11	AB	5046	DC	O3'-P	11.78	1.78	1.61
94	I3	28	DC	O3'-P	11.78	1.78	1.61
11	AB	496	DC	O3'-P	11.77	1.78	1.61
11	AB	5175	DC	O3'-P	11.77	1.78	1.61
11	AB	7	DC	O3'-P	11.77	1.78	1.61
25	BD	9	DC	O3'-P	11.77	1.78	1.61
88	H9	15	DC	O3'-P	11.77	1.78	1.61
136	M2	7	DC	O3'-P	11.77	1.78	1.61
158	O5	48	DC	O3'-P	11.77	1.78	1.61
11	AB	521	DC	O3'-P	11.77	1.78	1.61
110	J9	14	DC	O3'-P	11.77	1.78	1.61
14	B1	38	DC	O3'-P	11.76	1.78	1.61
173	PA	35	DC	O3'-P	11.76	1.78	1.61
179	Q7	24	DC	O3'-P	11.76	1.78	1.61
186	R3	12	DC	O3'-P	11.76	1.78	1.61
194	S2	11	DC	O3'-P	11.76	1.78	1.61
202	SD	5	DC	O3'-P	11.76	1.78	1.61
218	UA	10	DC	O3'-P	11.76	1.78	1.61
11	AB	21	DC	O3'-P	11.76	1.78	1.61
11	AB	1926	DC	O3'-P	11.76	1.78	1.61
11	AB	4644	DC	O3'-P	11.76	1.78	1.61
11	AB	100	DC	O3'-P	11.76	1.78	1.61
211	TD	9	DC	O3'-P	11.76	1.78	1.61
11	AB	2237	DC	O3'-P	11.76	1.78	1.61
103	J1	3	DC	O3'-P	11.76	1.78	1.61
11	AB	1039	DC	O3'-P	11.75	1.78	1.61
11	AB	1460	DC	O3'-P	11.75	1.78	1.61
11	AB	4582	DC	O3'-P	11.75	1.78	1.61
11	AB	4819	DC	O3'-P	11.75	1.78	1.61
11	AB	3543	DC	O3'-P	11.75	1.78	1.61
11	AB	3889	DC	O3'-P	11.75	1.78	1.61
109	J8	41	DC	O3'-P	11.75	1.78	1.61
121	K9	24	DC	O3'-P	11.75	1.78	1.61
154	NC	25	DC	O3'-P	11.75	1.78	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5324	DC	O3'-P	11.74	1.78	1.61
204	T3	43	DC	O3'-P	11.74	1.78	1.61
11	AB	5409	DC	O3'-P	11.74	1.78	1.61
153	NA	16	DC	O3'-P	11.74	1.78	1.61
11	AB	6911	DC	O3'-P	11.74	1.78	1.61
11	AB	4655	DC	O3'-P	11.73	1.78	1.61
94	I3	56	DC	O3'-P	11.73	1.78	1.61
11	AB	40	DC	O3'-P	11.73	1.78	1.61
104	J2	11	DC	O3'-P	11.73	1.78	1.61
55	E9	40	DC	O3'-P	11.72	1.78	1.61
103	J1	23	DC	O3'-P	11.72	1.78	1.61
101	IC	17	DC	O3'-P	11.72	1.78	1.61
11	AB	3237	DC	O3'-P	11.72	1.78	1.61
132	L9	13	DC	O3'-P	11.71	1.78	1.61
117	K5	24	DA	O3'-P	10.81	1.77	1.61
11	AB	7080	DA	O3'-P	10.80	1.77	1.61
11	AB	5709	DA	O3'-P	10.78	1.77	1.61
233	W8	17	DA	O3'-P	10.78	1.77	1.61
11	AB	3841	DA	O3'-P	10.77	1.77	1.61
44	D9	16	DA	O3'-P	10.76	1.77	1.61
148	N5	6	DA	O3'-P	10.76	1.77	1.61
11	AB	3575	DA	O3'-P	10.76	1.77	1.61
80	GD	11	DA	O3'-P	10.76	1.77	1.61
43	D8	34	DA	O3'-P	10.75	1.77	1.61
99	I9	28	DA	O3'-P	10.75	1.77	1.61
149	N6	20	DA	O3'-P	10.75	1.77	1.61
11	AB	4138	DA	O3'-P	10.75	1.77	1.61
11	AB	4992	DA	O3'-P	10.75	1.77	1.61
21	B8	25	DA	O3'-P	10.75	1.77	1.61
39	D3	31	DA	O3'-P	10.75	1.77	1.61
113	JD	9	DA	O3'-P	10.74	1.77	1.61
150	N7	21	DA	O3'-P	10.74	1.77	1.61
11	AB	3719	DA	O3'-P	10.74	1.77	1.61
228	VC	38	DA	O3'-P	10.74	1.77	1.61
125	L1	32	DA	O3'-P	10.74	1.77	1.61
11	AB	1530	DA	O3'-P	10.74	1.77	1.61
27	C2	19	DA	O3'-P	10.74	1.77	1.61
160	O7	3	DA	O3'-P	10.74	1.77	1.61
219	UC	26	DA	O3'-P	10.74	1.77	1.61
16	B3	11	DA	O3'-P	10.74	1.77	1.61
106	J5	3	DA	O3'-P	10.74	1.77	1.61
118	K6	12	DA	O3'-P	10.74	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
173	PA	6	DA	O3'-P	10.74	1.77	1.61
91	HD	21	DA	O3'-P	10.73	1.77	1.61
175	PD	4	DA	O3'-P	10.73	1.77	1.61
228	VC	34	DA	O3'-P	10.73	1.77	1.61
11	AB	4684	DA	O3'-P	10.73	1.77	1.61
13	AD	10	DA	O3'-P	10.73	1.77	1.61
18	B5	32	DA	O3'-P	10.73	1.77	1.61
20	B7	20	DA	O3'-P	10.73	1.77	1.61
89	HA	23	DA	O3'-P	10.73	1.77	1.61
143	MA	42	DA	O3'-P	10.73	1.77	1.61
182	QA	19	DA	O3'-P	10.73	1.77	1.61
185	R2	3	DA	O3'-P	10.73	1.77	1.61
190	R9	22	DA	O3'-P	10.73	1.77	1.61
4	A4	7	DA	O3'-P	10.73	1.77	1.61
11	AB	613	DA	O3'-P	10.73	1.77	1.61
11	AB	2359	DA	O3'-P	10.73	1.77	1.61
36	CD	4	DA	O3'-P	10.73	1.77	1.61
167	P3	36	DA	O3'-P	10.73	1.77	1.61
11	AB	2587	DA	O3'-P	10.72	1.77	1.61
17	B4	15	DA	O3'-P	10.72	1.77	1.61
39	D3	27	DA	O3'-P	10.72	1.77	1.61
45	DA	8	DA	O3'-P	10.72	1.77	1.61
94	I3	1	DA	O3'-P	10.72	1.77	1.61
228	VC	23	DA	O3'-P	10.72	1.77	1.61
11	AB	421	DA	O3'-P	10.72	1.77	1.61
11	AB	3997	DA	O3'-P	10.72	1.77	1.61
61	F3	22	DA	O3'-P	10.72	1.77	1.61
106	J5	5	DA	O3'-P	10.72	1.77	1.61
175	PD	16	DA	O3'-P	10.72	1.77	1.61
110	J9	9	DA	O3'-P	10.72	1.77	1.61
206	T7	41	DA	O3'-P	10.72	1.77	1.61
11	AB	7234	DA	O3'-P	10.72	1.77	1.61
13	AD	25	DA	O3'-P	10.72	1.77	1.61
125	L1	44	DA	O3'-P	10.72	1.77	1.61
150	N7	4	DA	O3'-P	10.72	1.77	1.61
168	P5	14	DA	O3'-P	10.72	1.77	1.61
209	TA	8	DA	O3'-P	10.72	1.77	1.61
180	Q8	25	DA	O3'-P	10.71	1.77	1.61
228	VC	28	DA	O3'-P	10.71	1.77	1.61
238	X9	19	DA	O3'-P	10.71	1.77	1.61
11	AB	5082	DA	O3'-P	10.71	1.77	1.61
78	GA	18	DA	O3'-P	10.71	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
130	L7	9	DA	O3'-P	10.71	1.77	1.61
235	WD	11	DA	O3'-P	10.71	1.77	1.61
11	AB	2667	DA	O3'-P	10.71	1.77	1.61
151	N8	1	DA	O3'-P	10.71	1.77	1.61
11	AB	674	DA	O3'-P	10.71	1.77	1.61
221	V2	14	DA	O3'-P	10.71	1.77	1.61
11	AB	436	DA	O3'-P	10.71	1.77	1.61
11	AB	937	DA	O3'-P	10.71	1.77	1.61
16	B3	5	DA	O3'-P	10.71	1.77	1.61
54	E8	36	DA	O3'-P	10.71	1.77	1.61
55	E9	12	DA	O3'-P	10.71	1.77	1.61
83	H3	25	DA	O3'-P	10.71	1.77	1.61
76	G8	22	DA	O3'-P	10.71	1.77	1.61
83	H3	41	DA	O3'-P	10.71	1.77	1.61
93	I2	14	DA	O3'-P	10.71	1.77	1.61
160	O7	35	DA	O3'-P	10.71	1.77	1.61
5	A5	22	DA	O3'-P	10.71	1.77	1.61
11	AB	621	DA	O3'-P	10.71	1.77	1.61
11	AB	941	DA	O3'-P	10.71	1.77	1.61
11	AB	2080	DA	O3'-P	10.70	1.77	1.61
11	AB	6179	DA	O3'-P	10.70	1.77	1.61
29	C5	15	DA	O3'-P	10.71	1.77	1.61
51	E5	15	DA	O3'-P	10.71	1.77	1.61
63	F6	8	DA	O3'-P	10.71	1.77	1.61
98	I8	24	DA	O3'-P	10.70	1.77	1.61
11	AB	583	DA	O3'-P	10.70	1.77	1.61
11	AB	3333	DA	O3'-P	10.70	1.77	1.61
11	AB	4756	DA	O3'-P	10.70	1.77	1.61
11	AB	5693	DA	O3'-P	10.70	1.77	1.61
11	AB	1834	DA	O3'-P	10.70	1.77	1.61
11	AB	4238	DA	O3'-P	10.70	1.77	1.61
11	AB	4946	DA	O3'-P	10.70	1.77	1.61
32	C8	41	DA	O3'-P	10.70	1.77	1.61
42	D7	3	DA	O3'-P	10.70	1.77	1.61
45	DA	21	DA	O3'-P	10.70	1.77	1.61
130	L7	37	DA	O3'-P	10.70	1.77	1.61
163	OA	1	DA	O3'-P	10.70	1.77	1.61
199	S9	2	DA	O3'-P	10.70	1.77	1.61
215	U7	10	DA	O3'-P	10.70	1.77	1.61
43	D8	32	DA	O3'-P	10.70	1.77	1.61
11	AB	179	DA	O3'-P	10.70	1.77	1.61
11	AB	1847	DA	O3'-P	10.70	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
68	FC	16	DA	O3'-P	10.70	1.77	1.61
11	AB	1935	DA	O3'-P	10.70	1.77	1.61
11	AB	3306	DA	O3'-P	10.70	1.77	1.61
45	DA	12	DA	O3'-P	10.70	1.77	1.61
89	HA	10	DA	O3'-P	10.70	1.77	1.61
93	I2	20	DA	O3'-P	10.70	1.77	1.61
117	K5	35	DA	O3'-P	10.70	1.77	1.61
156	O2	27	DA	O3'-P	10.70	1.77	1.61
195	S3	23	DA	O3'-P	10.70	1.77	1.61
227	VA	6	DA	O3'-P	10.70	1.77	1.61
11	AB	5986	DA	O3'-P	10.70	1.77	1.61
11	AB	6962	DA	O3'-P	10.70	1.77	1.61
19	B6	13	DA	O3'-P	10.70	1.77	1.61
58	ED	28	DA	O3'-P	10.70	1.77	1.61
83	H3	23	DA	O3'-P	10.70	1.77	1.61
11	AB	1828	DA	O3'-P	10.69	1.77	1.61
11	AB	1948	DA	O3'-P	10.69	1.77	1.61
11	AB	2117	DA	O3'-P	10.70	1.77	1.61
11	AB	2482	DA	O3'-P	10.70	1.77	1.61
11	AB	2593	DA	O3'-P	10.69	1.77	1.61
11	AB	4082	DA	O3'-P	10.70	1.77	1.61
11	AB	4354	DA	O3'-P	10.69	1.77	1.61
11	AB	6000	DA	O3'-P	10.69	1.77	1.61
59	F1	3	DA	O3'-P	10.70	1.77	1.61
106	J5	26	DA	O3'-P	10.70	1.77	1.61
115	K2	8	DA	O3'-P	10.70	1.77	1.61
134	LC	15	DA	O3'-P	10.70	1.77	1.61
146	N2	6	DA	O3'-P	10.70	1.77	1.61
169	P6	8	DA	O3'-P	10.70	1.77	1.61
2	A2	6	DA	O3'-P	10.69	1.77	1.61
11	AB	589	DA	O3'-P	10.69	1.77	1.61
11	AB	2695	DA	O3'-P	10.69	1.77	1.61
17	B4	17	DA	O3'-P	10.69	1.77	1.61
84	H5	32	DA	O3'-P	10.69	1.77	1.61
138	M5	27	DA	O3'-P	10.69	1.77	1.61
166	P2	8	DA	O3'-P	10.69	1.77	1.61
225	V8	10	DA	O3'-P	10.69	1.77	1.61
36	CD	2	DA	O3'-P	10.69	1.77	1.61
88	H9	26	DA	O3'-P	10.69	1.77	1.61
11	AB	2855	DA	O3'-P	10.69	1.77	1.61
11	AB	3455	DA	O3'-P	10.69	1.77	1.61
11	AB	4109	DA	O3'-P	10.69	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4853	DA	O3'-P	10.69	1.77	1.61
11	AB	6086	DA	O3'-P	10.69	1.77	1.61
11	AB	6594	DA	O3'-P	10.69	1.77	1.61
147	N3	11	DA	O3'-P	10.69	1.77	1.61
228	VC	11	DA	O3'-P	10.69	1.77	1.61
89	HA	19	DA	O3'-P	10.69	1.77	1.61
146	N2	21	DA	O3'-P	10.69	1.77	1.61
1	A1	22	DA	O3'-P	10.69	1.77	1.61
11	AB	725	DA	O3'-P	10.69	1.77	1.61
11	AB	1518	DA	O3'-P	10.69	1.77	1.61
11	AB	5237	DA	O3'-P	10.69	1.77	1.61
11	AB	6305	DA	O3'-P	10.69	1.77	1.61
11	AB	7194	DA	O3'-P	10.69	1.77	1.61
39	D3	25	DA	O3'-P	10.69	1.77	1.61
46	DC	19	DA	O3'-P	10.69	1.77	1.61
95	I5	13	DA	O3'-P	10.69	1.77	1.61
138	M5	5	DA	O3'-P	10.69	1.77	1.61
152	N9	30	DA	O3'-P	10.69	1.77	1.61
154	NC	9	DA	O3'-P	10.69	1.77	1.61
170	P7	11	DA	O3'-P	10.69	1.77	1.61
173	PA	2	DA	O3'-P	10.69	1.77	1.61
203	T2	12	DA	O3'-P	10.69	1.77	1.61
11	AB	5000	DA	O3'-P	10.68	1.77	1.61
11	AB	5883	DA	O3'-P	10.68	1.77	1.61
11	AB	6089	DA	O3'-P	10.68	1.77	1.61
11	AB	6238	DA	O3'-P	10.68	1.77	1.61
11	AB	6242	DA	O3'-P	10.68	1.77	1.61
11	AB	6339	DA	O3'-P	10.68	1.77	1.61
11	AB	6510	DA	O3'-P	10.68	1.77	1.61
11	AB	6576	DA	O3'-P	10.68	1.77	1.61
68	FC	10	DA	O3'-P	10.68	1.77	1.61
77	G9	9	DA	O3'-P	10.68	1.77	1.61
124	KD	15	DA	O3'-P	10.68	1.77	1.61
194	S2	3	DA	O3'-P	10.68	1.77	1.61
220	UD	8	DA	O3'-P	10.68	1.77	1.61
11	AB	2485	DA	O3'-P	10.68	1.77	1.61
11	AB	4927	DA	O3'-P	10.68	1.77	1.61
11	AB	7213	DA	O3'-P	10.68	1.77	1.61
108	J7	33	DA	O3'-P	10.68	1.77	1.61
11	AB	406	DA	O3'-P	10.68	1.77	1.61
11	AB	1534	DA	O3'-P	10.68	1.77	1.61
11	AB	2602	DA	O3'-P	10.68	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6820	DA	O3'-P	10.68	1.77	1.61
11	AB	6869	DA	O3'-P	10.68	1.77	1.61
11	AB	7064	DA	O3'-P	10.68	1.77	1.61
13	AD	13	DA	O3'-P	10.68	1.77	1.61
11	AB	3944	DA	O3'-P	10.68	1.77	1.61
11	AB	4664	DA	O3'-P	10.68	1.77	1.61
37	D1	30	DA	O3'-P	10.68	1.77	1.61
41	D6	32	DA	O3'-P	10.68	1.77	1.61
131	L8	16	DA	O3'-P	10.68	1.77	1.61
137	M3	33	DA	O3'-P	10.68	1.77	1.61
143	MA	19	DA	O3'-P	10.68	1.77	1.61
150	N7	2	DA	O3'-P	10.68	1.77	1.61
160	O7	41	DA	O3'-P	10.68	1.77	1.61
188	R7	24	DA	O3'-P	10.68	1.77	1.61
203	T2	9	DA	O3'-P	10.68	1.77	1.61
223	V5	20	DA	O3'-P	10.68	1.77	1.61
11	AB	633	DA	O3'-P	10.68	1.77	1.61
11	AB	3122	DA	O3'-P	10.68	1.77	1.61
2	A2	2	DA	O3'-P	10.68	1.77	1.61
11	AB	4522	DA	O3'-P	10.68	1.77	1.61
11	AB	6799	DA	O3'-P	10.68	1.77	1.61
49	E2	29	DA	O3'-P	10.68	1.77	1.61
95	I5	31	DA	O3'-P	10.68	1.77	1.61
120	K8	3	DA	O3'-P	10.68	1.77	1.61
155	ND	19	DA	O3'-P	10.68	1.77	1.61
156	O2	41	DA	O3'-P	10.68	1.77	1.61
199	S9	4	DA	O3'-P	10.68	1.77	1.61
210	TC	29	DA	O3'-P	10.68	1.77	1.61
11	AB	4479	DA	O3'-P	10.67	1.77	1.61
11	AB	5300	DA	O3'-P	10.67	1.77	1.61
11	AB	222	DT	O3'-P	10.67	1.77	1.61
11	AB	6098	DA	O3'-P	10.67	1.77	1.61
35	CC	6	DA	O3'-P	10.67	1.77	1.61
81	H1	11	DA	O3'-P	10.67	1.77	1.61
86	H7	12	DA	O3'-P	10.67	1.77	1.61
111	JA	5	DA	O3'-P	10.67	1.77	1.61
152	N9	44	DA	O3'-P	10.67	1.77	1.61
154	NC	7	DA	O3'-P	10.67	1.77	1.61
4	A4	9	DA	O3'-P	10.67	1.77	1.61
11	AB	2686	DA	O3'-P	10.67	1.77	1.61
11	AB	3836	DA	O3'-P	10.67	1.77	1.61
11	AB	4225	DA	O3'-P	10.67	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5762	DA	O3'-P	10.67	1.77	1.61
13	AD	21	DA	O3'-P	10.67	1.77	1.61
30	C6	42	DA	O3'-P	10.67	1.77	1.61
13	AD	27	DA	O3'-P	10.67	1.77	1.61
122	KA	32	DA	O3'-P	10.67	1.77	1.61
11	AB	6249	DA	O3'-P	10.67	1.77	1.61
11	AB	3899	DA	O3'-P	10.67	1.77	1.61
11	AB	4292	DA	O3'-P	10.67	1.77	1.61
48	E1	10	DA	O3'-P	10.67	1.77	1.61
49	E2	27	DA	O3'-P	10.67	1.77	1.61
60	F2	26	DA	O3'-P	10.67	1.77	1.61
147	N3	3	DA	O3'-P	10.67	1.77	1.61
11	AB	4130	DA	O3'-P	10.66	1.77	1.61
11	AB	6815	DA	O3'-P	10.66	1.77	1.61
41	D6	2	DA	O3'-P	10.66	1.77	1.61
11	AB	227	DA	O3'-P	10.66	1.77	1.61
11	AB	2183	DA	O3'-P	10.66	1.77	1.61
28	C3	17	DA	O3'-P	10.66	1.77	1.61
147	N3	1	DA	O3'-P	10.66	1.77	1.61
11	AB	2606	DA	O3'-P	10.66	1.77	1.61
11	AB	6651	DA	O3'-P	10.66	1.77	1.61
11	AB	6751	DA	O3'-P	10.66	1.77	1.61
30	C6	24	DA	O3'-P	10.66	1.77	1.61
97	I7	23	DA	O3'-P	10.66	1.77	1.61
109	J8	1	DA	O3'-P	10.66	1.77	1.61
212	U2	27	DA	O3'-P	10.66	1.77	1.61
114	K1	27	DA	O3'-P	10.66	1.77	1.61
149	N6	48	DA	O3'-P	10.66	1.77	1.61
11	AB	2338	DA	O3'-P	10.66	1.77	1.61
11	AB	2515	DA	O3'-P	10.66	1.77	1.61
11	AB	3313	DA	O3'-P	10.66	1.77	1.61
87	H8	14	DA	O3'-P	10.66	1.77	1.61
94	I3	36	DA	O3'-P	10.66	1.77	1.61
114	K1	25	DA	O3'-P	10.66	1.77	1.61
139	M6	12	DA	O3'-P	10.66	1.77	1.61
198	S8	28	DA	O3'-P	10.66	1.77	1.61
67	FA	26	DA	O3'-P	10.66	1.77	1.61
158	O5	31	DA	O3'-P	10.66	1.77	1.61
168	P5	8	DA	O3'-P	10.66	1.77	1.61
204	T3	30	DA	O3'-P	10.66	1.77	1.61
11	AB	4419	DA	O3'-P	10.66	1.77	1.61
57	EC	22	DA	O3'-P	10.66	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6405	DA	O3'-P	10.66	1.77	1.61
92	I1	21	DA	O3'-P	10.66	1.77	1.61
105	J3	32	DA	O3'-P	10.66	1.77	1.61
214	U5	37	DA	O3'-P	10.66	1.77	1.61
230	W3	40	DA	O3'-P	10.66	1.77	1.61
52	E6	3	DA	O3'-P	10.65	1.77	1.61
65	F8	17	DA	O3'-P	10.65	1.77	1.61
137	M3	12	DA	O3'-P	10.65	1.77	1.61
195	S3	25	DA	O3'-P	10.65	1.77	1.61
213	U3	18	DA	O3'-P	10.65	1.77	1.61
216	U8	4	DA	O3'-P	10.65	1.77	1.61
231	W5	17	DA	O3'-P	10.65	1.77	1.61
11	AB	219	DA	O3'-P	10.65	1.77	1.61
11	AB	1818	DA	O3'-P	10.65	1.77	1.61
11	AB	7037	DA	O3'-P	10.65	1.77	1.61
11	AB	7240	DA	O3'-P	10.65	1.77	1.61
159	O6	4	DA	O3'-P	10.65	1.77	1.61
5	A5	18	DA	O3'-P	10.65	1.77	1.61
7	A7	7	DA	O3'-P	10.65	1.77	1.61
11	AB	580	DA	O3'-P	10.65	1.77	1.61
11	AB	3471	DA	O3'-P	10.65	1.77	1.61
11	AB	6733	DA	O3'-P	10.65	1.77	1.61
123	KC	10	DA	O3'-P	10.65	1.77	1.61
196	S5	3	DA	O3'-P	10.65	1.77	1.61
11	AB	451	DA	O3'-P	10.65	1.77	1.61
11	AB	5067	DA	O3'-P	10.65	1.77	1.61
11	AB	6671	DA	O3'-P	10.65	1.77	1.61
11	AB	6727	DA	O3'-P	10.65	1.77	1.61
207	T8	27	DA	O3'-P	10.65	1.77	1.61
5	A5	37	DA	O3'-P	10.64	1.77	1.61
11	AB	5520	DA	O3'-P	10.64	1.77	1.61
11	AB	5717	DA	O3'-P	10.64	1.77	1.61
47	DD	24	DA	O3'-P	10.64	1.77	1.61
69	FD	25	DA	O3'-P	10.64	1.77	1.61
154	NC	5	DA	O3'-P	10.64	1.77	1.61
160	O7	46	DA	O3'-P	10.64	1.77	1.61
161	O8	13	DA	O3'-P	10.64	1.77	1.61
165	OD	10	DA	O3'-P	10.64	1.77	1.61
174	PC	25	DA	O3'-P	10.64	1.77	1.61
185	R2	18	DA	O3'-P	10.64	1.77	1.61
191	RA	8	DA	O3'-P	10.64	1.77	1.61
49	E2	3	DA	O3'-P	10.64	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1701	DA	O3'-P	10.64	1.77	1.61
11	AB	3324	DA	O3'-P	10.64	1.77	1.61
11	AB	5859	DA	O3'-P	10.64	1.77	1.61
206	T7	53	DA	O3'-P	10.64	1.77	1.61
11	AB	358	DA	O3'-P	10.64	1.77	1.61
11	AB	2032	DA	O3'-P	10.64	1.77	1.61
11	AB	2614	DA	O3'-P	10.64	1.77	1.61
11	AB	4453	DA	O3'-P	10.64	1.77	1.61
11	AB	4688	DA	O3'-P	10.64	1.77	1.61
11	AB	6877	DA	O3'-P	10.64	1.77	1.61
99	I9	9	DA	O3'-P	10.64	1.77	1.61
111	JA	3	DA	O3'-P	10.64	1.77	1.61
125	L1	52	DA	O3'-P	10.64	1.77	1.61
223	V5	36	DA	O3'-P	10.64	1.77	1.61
226	V9	23	DA	O3'-P	10.64	1.77	1.61
10	AA	25	DA	O3'-P	10.63	1.77	1.61
11	AB	815	DA	O3'-P	10.64	1.77	1.61
11	AB	1006	DA	O3'-P	10.64	1.77	1.61
11	AB	1807	DA	O3'-P	10.64	1.77	1.61
71	G2	9	DA	O3'-P	10.64	1.77	1.61
138	M5	22	DA	O3'-P	10.64	1.77	1.61
11	AB	4831	DA	O3'-P	10.63	1.77	1.61
95	I5	29	DA	O3'-P	10.63	1.77	1.61
11	AB	3561	DA	O3'-P	10.63	1.77	1.61
11	AB	4531	DA	O3'-P	10.63	1.77	1.61
11	AB	6125	DA	O3'-P	10.63	1.77	1.61
142	M9	4	DA	O3'-P	10.63	1.77	1.61
146	N2	2	DA	O3'-P	10.63	1.77	1.61
157	O3	9	DA	O3'-P	10.63	1.77	1.61
214	U5	16	DA	O3'-P	10.63	1.77	1.61
11	AB	242	DA	O3'-P	10.63	1.77	1.61
39	D3	19	DA	O3'-P	10.63	1.77	1.61
106	J5	13	DA	O3'-P	10.63	1.77	1.61
131	L8	10	DA	O3'-P	10.63	1.77	1.61
143	MA	29	DA	O3'-P	10.63	1.77	1.61
225	V8	12	DA	O3'-P	10.63	1.77	1.61
11	AB	637	DA	O3'-P	10.62	1.77	1.61
234	W9	15	DA	O3'-P	10.62	1.77	1.61
11	AB	6872	DT	O3'-P	10.62	1.77	1.61
24	BC	38	DA	O3'-P	10.62	1.77	1.61
68	FC	13	DA	O3'-P	10.62	1.77	1.61
78	GA	7	DA	O3'-P	10.62	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6122	DT	O3'-P	10.62	1.77	1.61
11	AB	1796	DA	O3'-P	10.61	1.77	1.61
21	B8	14	DA	O3'-P	10.62	1.77	1.61
117	K5	2	DA	O3'-P	10.62	1.77	1.61
143	MA	8	DT	O3'-P	10.61	1.77	1.61
198	S8	23	DA	O3'-P	10.62	1.77	1.61
29	C5	39	DA	O3'-P	10.61	1.77	1.61
11	AB	1015	DT	O3'-P	10.61	1.77	1.61
11	AB	2850	DT	O3'-P	10.60	1.77	1.61
11	AB	6716	DT	O3'-P	10.60	1.77	1.61
11	AB	6812	DT	O3'-P	10.60	1.77	1.61
206	T7	33	DA	O3'-P	10.60	1.77	1.61
11	AB	125	DA	O3'-P	10.60	1.77	1.61
74	G6	6	DA	O3'-P	10.60	1.77	1.61
181	Q9	1	DA	O3'-P	10.60	1.77	1.61
188	R7	1	DA	O3'-P	10.60	1.77	1.61
207	T8	13	DA	O3'-P	10.60	1.77	1.61
11	AB	4660	DA	O3'-P	10.60	1.77	1.61
119	K7	31	DA	O3'-P	10.60	1.77	1.61
11	AB	790	DA	O3'-P	10.59	1.77	1.61
11	AB	1558	DT	O3'-P	10.59	1.77	1.61
11	AB	4008	DT	O3'-P	10.59	1.77	1.61
11	AB	4427	DT	O3'-P	10.59	1.77	1.61
11	AB	5041	DA	O3'-P	10.59	1.77	1.61
11	AB	6029	DA	O3'-P	10.59	1.77	1.61
11	AB	4863	DT	O3'-P	10.59	1.77	1.61
34	CA	12	DA	O3'-P	10.59	1.77	1.61
66	F9	18	DT	O3'-P	10.59	1.77	1.61
11	AB	1136	DT	O3'-P	10.59	1.77	1.61
11	AB	5586	DT	O3'-P	10.59	1.77	1.61
11	AB	1908	DA	O3'-P	10.59	1.77	1.61
55	E9	42	DA	O3'-P	10.59	1.77	1.61
172	P9	18	DT	O3'-P	10.59	1.77	1.61
11	AB	1316	DT	O3'-P	10.58	1.77	1.61
78	GA	11	DT	O3'-P	10.58	1.77	1.61
11	AB	1647	DA	O3'-P	10.58	1.77	1.61
11	AB	6303	DT	O3'-P	10.58	1.77	1.61
11	AB	3042	DA	O3'-P	10.58	1.77	1.61
11	AB	6664	DT	O3'-P	10.58	1.77	1.61
57	EC	13	DT	O3'-P	10.58	1.77	1.61
69	FD	30	DA	O3'-P	10.58	1.77	1.61
86	H7	19	DA	O3'-P	10.58	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2143	DA	O3'-P	10.58	1.77	1.61
14	B1	6	DA	O3'-P	10.58	1.77	1.61
135	LD	5	DT	O3'-P	10.58	1.77	1.61
11	AB	3288	DT	O3'-P	10.57	1.77	1.61
11	AB	4024	DA	O3'-P	10.57	1.77	1.61
95	I5	10	DA	O3'-P	10.57	1.77	1.61
11	AB	4056	DA	O3'-P	10.57	1.77	1.61
8	A8	6	DA	O3'-P	10.57	1.77	1.61
44	D9	25	DA	O3'-P	10.57	1.77	1.61
53	E7	19	DA	O3'-P	10.57	1.77	1.61
189	R8	39	DA	O3'-P	10.57	1.77	1.61
11	AB	2973	DT	O3'-P	10.57	1.77	1.61
11	AB	4513	DA	O3'-P	10.57	1.77	1.61
153	NA	12	DA	O3'-P	10.57	1.77	1.61
199	S9	19	DA	O3'-P	10.57	1.77	1.61
11	AB	547	DA	O3'-P	10.57	1.77	1.61
11	AB	3129	DT	O3'-P	10.57	1.76	1.61
49	E2	33	DA	O3'-P	10.57	1.77	1.61
151	N8	18	DT	O3'-P	10.57	1.76	1.61
11	AB	1901	DA	O3'-P	10.56	1.76	1.61
64	F7	23	DA	O3'-P	10.56	1.76	1.61
11	AB	734	DT	O3'-P	10.56	1.76	1.61
11	AB	1314	DT	O3'-P	10.56	1.76	1.61
11	AB	3162	DT	O3'-P	10.56	1.76	1.61
11	AB	3380	DA	O3'-P	10.56	1.76	1.61
11	AB	4534	DT	O3'-P	10.56	1.76	1.61
85	H6	6	DA	O3'-P	10.56	1.76	1.61
234	W9	13	DA	O3'-P	10.56	1.76	1.61
11	AB	956	DT	O3'-P	10.56	1.76	1.61
11	AB	4507	DA	O3'-P	10.56	1.76	1.61
84	H5	39	DA	O3'-P	10.56	1.76	1.61
11	AB	6399	DT	O3'-P	10.56	1.76	1.61
90	HC	24	DA	O3'-P	10.56	1.76	1.61
196	S5	11	DA	O3'-P	10.56	1.76	1.61
11	AB	3021	DT	O3'-P	10.56	1.76	1.61
85	H6	4	DA	O3'-P	10.56	1.76	1.61
121	K9	8	DA	O3'-P	10.56	1.76	1.61
180	Q8	23	DT	O3'-P	10.56	1.76	1.61
231	W5	12	DT	O3'-P	10.56	1.76	1.61
114	K1	9	DT	O3'-P	10.56	1.76	1.61
152	N9	40	DT	O3'-P	10.56	1.76	1.61
229	VD	6	DA	O3'-P	10.56	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BC	7	DA	O3'-P	10.56	1.76	1.61
11	AB	475	DA	O3'-P	10.55	1.76	1.61
11	AB	1130	DT	O3'-P	10.55	1.76	1.61
211	TD	20	DA	O3'-P	10.55	1.76	1.61
11	AB	2030	DT	O3'-P	10.55	1.76	1.61
11	AB	2167	DA	O3'-P	10.55	1.76	1.61
11	AB	2678	DT	O3'-P	10.55	1.76	1.61
11	AB	3754	DA	O3'-P	10.55	1.76	1.61
152	N9	42	DT	O3'-P	10.55	1.76	1.61
11	AB	335	DA	O3'-P	10.55	1.76	1.61
11	AB	1310	DT	O3'-P	10.55	1.76	1.61
11	AB	1417	DA	O3'-P	10.55	1.76	1.61
11	AB	4047	DA	O3'-P	10.55	1.76	1.61
11	AB	4662	DT	O3'-P	10.55	1.76	1.61
107	J6	39	DA	O3'-P	10.55	1.76	1.61
11	AB	2121	DT	O3'-P	10.55	1.76	1.61
11	AB	4537	DT	O3'-P	10.55	1.76	1.61
11	AB	6056	DA	O3'-P	10.55	1.76	1.61
29	C5	31	DA	O3'-P	10.55	1.76	1.61
122	KA	10	DA	O3'-P	10.55	1.76	1.61
136	M2	15	DA	O3'-P	10.55	1.76	1.61
155	ND	2	DA	O3'-P	10.55	1.76	1.61
156	O2	44	DA	O3'-P	10.55	1.76	1.61
182	QA	8	DA	O3'-P	10.55	1.76	1.61
7	A7	13	DT	O3'-P	10.55	1.76	1.61
11	AB	988	DA	O3'-P	10.55	1.76	1.61
11	AB	3690	DT	O3'-P	10.55	1.76	1.61
11	AB	6567	DT	O3'-P	10.55	1.76	1.61
24	BC	21	DA	O3'-P	10.55	1.76	1.61
117	K5	42	DA	O3'-P	10.55	1.76	1.61
126	L2	59	DA	O3'-P	10.55	1.76	1.61
183	QC	20	DA	O3'-P	10.55	1.76	1.61
20	B7	12	DA	O3'-P	10.55	1.76	1.61
94	I3	44	DA	O3'-P	10.55	1.76	1.61
183	QC	9	DT	O3'-P	10.55	1.76	1.61
185	R2	10	DA	O3'-P	10.55	1.76	1.61
209	TA	32	DA	O3'-P	10.55	1.76	1.61
11	AB	404	DT	O3'-P	10.54	1.76	1.61
11	AB	425	DT	O3'-P	10.54	1.76	1.61
11	AB	1823	DT	O3'-P	10.54	1.76	1.61
11	AB	3696	DT	O3'-P	10.55	1.76	1.61
140	M7	15	DA	O3'-P	10.55	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
111	JA	11	DT	O3'-P	10.54	1.76	1.61
155	ND	9	DA	O3'-P	10.54	1.76	1.61
214	U5	20	DT	O3'-P	10.54	1.76	1.61
11	AB	759	DA	O3'-P	10.54	1.76	1.61
11	AB	1187	DA	O3'-P	10.54	1.76	1.61
11	AB	2725	DA	O3'-P	10.54	1.76	1.61
15	B2	19	DA	O3'-P	10.54	1.76	1.61
11	AB	3486	DT	O3'-P	10.54	1.76	1.61
11	AB	4700	DA	O3'-P	10.54	1.76	1.61
11	AB	4783	DA	O3'-P	10.54	1.76	1.61
11	AB	5247	DA	O3'-P	10.54	1.76	1.61
11	AB	6932	DA	O3'-P	10.54	1.76	1.61
11	AB	7068	DT	O3'-P	10.54	1.76	1.61
32	C8	3	DA	O3'-P	10.54	1.76	1.61
80	GD	15	DA	O3'-P	10.54	1.76	1.61
126	L2	15	DT	O3'-P	10.54	1.76	1.61
194	S2	24	DA	O3'-P	10.54	1.76	1.61
11	AB	1025	DT	O3'-P	10.54	1.76	1.61
11	AB	1049	DT	O3'-P	10.54	1.76	1.61
11	AB	2336	DT	O3'-P	10.54	1.76	1.61
11	AB	2817	DT	O3'-P	10.54	1.76	1.61
11	AB	3846	DT	O3'-P	10.54	1.76	1.61
22	B9	49	DA	O3'-P	10.54	1.76	1.61
72	G3	27	DT	O3'-P	10.54	1.76	1.61
11	AB	1881	DA	O3'-P	10.54	1.76	1.61
11	AB	2076	DA	O3'-P	10.54	1.76	1.61
11	AB	2192	DT	O3'-P	10.54	1.76	1.61
11	AB	2909	DA	O3'-P	10.54	1.76	1.61
11	AB	3441	DT	O3'-P	10.54	1.76	1.61
11	AB	3865	DA	O3'-P	10.54	1.76	1.61
67	FA	30	DT	O3'-P	10.54	1.76	1.61
72	G3	3	DT	O3'-P	10.54	1.76	1.61
105	J3	8	DT	O3'-P	10.54	1.76	1.61
117	K5	38	DT	O3'-P	10.54	1.76	1.61
11	AB	3468	DT	O3'-P	10.54	1.76	1.61
11	AB	3627	DA	O3'-P	10.54	1.76	1.61
225	V8	23	DA	O3'-P	10.54	1.76	1.61
11	AB	3648	DT	O3'-P	10.54	1.76	1.61
11	AB	3992	DT	O3'-P	10.54	1.76	1.61
11	AB	4549	DT	O3'-P	10.54	1.76	1.61
11	AB	5233	DT	O3'-P	10.54	1.76	1.61
11	AB	5387	DT	O3'-P	10.54	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6446	DA	O3'-P	10.54	1.76	1.61
36	CD	18	DT	O3'-P	10.54	1.76	1.61
38	D2	10	DA	O3'-P	10.54	1.76	1.61
57	EC	20	DT	O3'-P	10.54	1.76	1.61
61	F3	12	DA	O3'-P	10.54	1.76	1.61
74	G6	8	DA	O3'-P	10.54	1.76	1.61
100	IA	5	DA	O3'-P	10.54	1.76	1.61
109	J8	32	DT	O3'-P	10.54	1.76	1.61
129	L6	22	DT	O3'-P	10.54	1.76	1.61
145	MD	54	DA	O3'-P	10.54	1.76	1.61
161	O8	35	DA	O3'-P	10.54	1.76	1.61
192	RC	9	DA	O3'-P	10.54	1.76	1.61
234	W9	6	DA	O3'-P	10.54	1.76	1.61
11	AB	665	DT	O3'-P	10.54	1.76	1.61
11	AB	2021	DT	O3'-P	10.54	1.76	1.61
11	AB	4070	DA	O3'-P	10.54	1.76	1.61
10	AA	22	DA	O3'-P	10.53	1.76	1.61
11	AB	4113	DT	O3'-P	10.54	1.76	1.61
11	AB	4126	DT	O3'-P	10.54	1.76	1.61
11	AB	5303	DT	O3'-P	10.54	1.76	1.61
11	AB	5547	DA	O3'-P	10.54	1.76	1.61
14	B1	26	DA	O3'-P	10.54	1.76	1.61
23	BA	29	DT	O3'-P	10.54	1.76	1.61
46	DC	15	DT	O3'-P	10.54	1.76	1.61
11	AB	5781	DT	O3'-P	10.53	1.76	1.61
11	AB	6071	DT	O3'-P	10.54	1.76	1.61
11	AB	7049	DT	O3'-P	10.53	1.76	1.61
23	BA	35	DT	O3'-P	10.54	1.76	1.61
24	BC	26	DA	O3'-P	10.54	1.76	1.61
58	ED	20	DA	O3'-P	10.53	1.76	1.61
62	F5	2	DA	O3'-P	10.53	1.76	1.61
77	G9	7	DT	O3'-P	10.54	1.76	1.61
93	I2	44	DT	O3'-P	10.53	1.76	1.61
102	ID	7	DT	O3'-P	10.54	1.76	1.61
188	R7	6	DA	O3'-P	10.53	1.76	1.61
204	T3	34	DT	O3'-P	10.53	1.76	1.61
11	AB	383	DT	O3'-P	10.53	1.76	1.61
11	AB	1961	DT	O3'-P	10.53	1.76	1.61
11	AB	2732	DA	O3'-P	10.53	1.76	1.61
11	AB	4680	DT	O3'-P	10.53	1.76	1.61
11	AB	971	DT	O3'-P	10.53	1.76	1.61
11	AB	3823	DA	O3'-P	10.53	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5044	DA	O3'-P	10.53	1.76	1.61
11	AB	5381	DT	O3'-P	10.53	1.76	1.61
11	AB	5496	DA	O3'-P	10.53	1.76	1.61
38	D2	5	DA	O3'-P	10.53	1.76	1.61
113	JD	2	DA	O3'-P	10.53	1.76	1.61
187	R5	13	DT	O3'-P	10.53	1.76	1.61
11	AB	7179	DT	O3'-P	10.53	1.76	1.61
102	ID	22	DA	O3'-P	10.53	1.76	1.61
126	L2	50	DA	O3'-P	10.53	1.76	1.61
128	L5	9	DT	O3'-P	10.53	1.76	1.61
144	MC	11	DT	O3'-P	10.53	1.76	1.61
152	N9	28	DT	O3'-P	10.53	1.76	1.61
160	O7	7	DA	O3'-P	10.53	1.76	1.61
173	PA	17	DT	O3'-P	10.53	1.76	1.61
190	R9	27	DA	O3'-P	10.53	1.76	1.61
213	U3	9	DA	O3'-P	10.53	1.76	1.61
5	A5	40	DT	O3'-P	10.53	1.76	1.61
11	AB	60	DA	O3'-P	10.53	1.76	1.61
11	AB	2105	DT	O3'-P	10.53	1.76	1.61
194	S2	13	DA	O3'-P	10.53	1.76	1.61
11	AB	182	DT	O3'-P	10.53	1.76	1.61
11	AB	206	DT	O3'-P	10.53	1.76	1.61
11	AB	1970	DT	O3'-P	10.53	1.76	1.61
11	AB	2488	DT	O3'-P	10.53	1.76	1.61
11	AB	2653	DA	O3'-P	10.53	1.76	1.61
11	AB	3477	DT	O3'-P	10.53	1.76	1.61
11	AB	6153	DA	O3'-P	10.53	1.76	1.61
73	G5	15	DA	O3'-P	10.53	1.76	1.61
108	J7	6	DA	O3'-P	10.53	1.76	1.61
11	AB	761	DA	O3'-P	10.53	1.76	1.61
11	AB	1394	DT	O3'-P	10.53	1.76	1.61
11	AB	1551	DT	O3'-P	10.53	1.76	1.61
11	AB	3180	DT	O3'-P	10.53	1.76	1.61
11	AB	4857	DT	O3'-P	10.53	1.76	1.61
11	AB	4995	DT	O3'-P	10.53	1.76	1.61
11	AB	5023	DT	O3'-P	10.53	1.76	1.61
11	AB	5057	DA	O3'-P	10.53	1.76	1.61
11	AB	5481	DA	O3'-P	10.53	1.76	1.61
11	AB	5797	DT	O3'-P	10.53	1.76	1.61
11	AB	6633	DA	O3'-P	10.53	1.76	1.61
11	AB	6745	DT	O3'-P	10.53	1.76	1.61
13	AD	42	DT	O3'-P	10.53	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6935	DA	O3'-P	10.53	1.76	1.61
37	D1	16	DA	O3'-P	10.53	1.76	1.61
76	G8	17	DT	O3'-P	10.53	1.76	1.61
79	GC	20	DT	O3'-P	10.53	1.76	1.61
99	I9	13	DT	O3'-P	10.53	1.76	1.61
106	J5	11	DT	O3'-P	10.53	1.76	1.61
125	L1	9	DA	O3'-P	10.53	1.76	1.61
125	L1	11	DA	O3'-P	10.53	1.76	1.61
152	N9	11	DT	O3'-P	10.53	1.76	1.61
126	L2	47	DA	O3'-P	10.53	1.76	1.61
209	TA	26	DA	O3'-P	10.53	1.76	1.61
215	U7	13	DT	O3'-P	10.53	1.76	1.61
11	AB	410	DT	O3'-P	10.53	1.76	1.61
11	AB	3817	DA	O3'-P	10.53	1.76	1.61
11	AB	4201	DA	O3'-P	10.53	1.76	1.61
18	B5	10	DA	O3'-P	10.53	1.76	1.61
8	A8	9	DA	O3'-P	10.53	1.76	1.61
11	AB	1379	DT	O3'-P	10.53	1.76	1.61
11	AB	1414	DA	O3'-P	10.53	1.76	1.61
11	AB	1500	DT	O3'-P	10.53	1.76	1.61
11	AB	1570	DT	O3'-P	10.53	1.76	1.61
11	AB	2333	DT	O3'-P	10.53	1.76	1.61
11	AB	2354	DT	O3'-P	10.53	1.76	1.61
11	AB	3132	DT	O3'-P	10.53	1.76	1.61
11	AB	3728	DA	O3'-P	10.53	1.76	1.61
11	AB	5251	DA	O3'-P	10.53	1.76	1.61
11	AB	4682	DT	O3'-P	10.53	1.76	1.61
11	AB	5069	DT	O3'-P	10.53	1.76	1.61
11	AB	5727	DT	O3'-P	10.53	1.76	1.61
11	AB	5801	DT	O3'-P	10.53	1.76	1.61
11	AB	5891	DA	O3'-P	10.53	1.76	1.61
11	AB	6003	DT	O3'-P	10.53	1.76	1.61
11	AB	6129	DT	O3'-P	10.53	1.76	1.61
22	B9	52	DA	O3'-P	10.53	1.76	1.61
58	ED	6	DA	O3'-P	10.53	1.76	1.61
71	G2	21	DA	O3'-P	10.53	1.76	1.61
102	ID	3	DA	O3'-P	10.53	1.76	1.61
130	L7	5	DA	O3'-P	10.53	1.76	1.61
133	LA	5	DT	O3'-P	10.53	1.76	1.61
137	M3	4	DA	O3'-P	10.53	1.76	1.61
139	M6	3	DA	O3'-P	10.53	1.76	1.61
145	MD	52	DA	O3'-P	10.53	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
161	O8	56	DA	O3'-P	10.53	1.76	1.61
188	R7	27	DT	O3'-P	10.53	1.76	1.61
212	U2	12	DA	O3'-P	10.53	1.76	1.61
230	W3	18	DA	O3'-P	10.53	1.76	1.61
217	U9	6	DA	O3'-P	10.53	1.76	1.61
218	UA	12	DA	O3'-P	10.53	1.76	1.61
238	X9	9	DT	O3'-P	10.53	1.76	1.61
11	AB	1142	DT	O3'-P	10.52	1.76	1.61
11	AB	3153	DT	O3'-P	10.52	1.76	1.61
8	A8	23	DT	O3'-P	10.52	1.76	1.61
11	AB	1684	DT	O3'-P	10.52	1.76	1.61
11	AB	3012	DT	O3'-P	10.52	1.76	1.61
11	AB	7039	DT	O3'-P	10.52	1.76	1.61
11	AB	398	DT	O3'-P	10.52	1.76	1.61
11	AB	1844	DT	O3'-P	10.52	1.76	1.61
11	AB	2177	DT	O3'-P	10.52	1.76	1.61
11	AB	2985	DT	O3'-P	10.52	1.76	1.61
11	AB	4849	DT	O3'-P	10.52	1.76	1.61
11	AB	5115	DA	O3'-P	10.52	1.76	1.61
11	AB	6809	DT	O3'-P	10.52	1.76	1.61
11	AB	2916	DA	O3'-P	10.52	1.76	1.61
11	AB	3033	DT	O3'-P	10.52	1.76	1.61
11	AB	3603	DT	O3'-P	10.52	1.76	1.61
11	AB	3765	DT	O3'-P	10.52	1.76	1.61
11	AB	4465	DT	O3'-P	10.52	1.76	1.61
11	AB	4963	DA	O3'-P	10.52	1.76	1.61
11	AB	5640	DT	O3'-P	10.52	1.76	1.61
46	DC	7	DA	O3'-P	10.52	1.76	1.61
51	E5	22	DT	O3'-P	10.52	1.76	1.61
218	UA	17	DT	O3'-P	10.52	1.76	1.61
11	AB	4844	DA	O3'-P	10.52	1.76	1.61
11	AB	5080	DT	O3'-P	10.52	1.76	1.61
11	AB	5298	DT	O3'-P	10.52	1.76	1.61
11	AB	6176	DT	O3'-P	10.52	1.76	1.61
11	AB	6254	DT	O3'-P	10.52	1.76	1.61
11	AB	6504	DT	O3'-P	10.52	1.76	1.61
22	B9	10	DA	O3'-P	10.52	1.76	1.61
55	E9	44	DT	O3'-P	10.52	1.76	1.61
74	G6	28	DT	O3'-P	10.52	1.76	1.61
109	J8	52	DA	O3'-P	10.52	1.76	1.61
133	LA	1	DT	O3'-P	10.52	1.76	1.61
187	R5	36	DA	O3'-P	10.52	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B9	46	DA	O3'-P	10.52	1.76	1.61
40	D5	17	DA	O3'-P	10.52	1.76	1.61
69	FD	39	DA	O3'-P	10.52	1.76	1.61
100	IA	22	DA	O3'-P	10.52	1.76	1.61
117	K5	16	DT	O3'-P	10.52	1.76	1.61
206	T7	37	DA	O3'-P	10.52	1.76	1.61
222	V3	20	DT	O3'-P	10.52	1.76	1.61
226	V9	14	DA	O3'-P	10.52	1.76	1.61
233	W8	20	DT	O3'-P	10.52	1.76	1.61
206	T7	6	DA	O3'-P	10.52	1.76	1.61
1	A1	3	DA	O3'-P	10.52	1.76	1.61
11	AB	2066	DT	O3'-P	10.52	1.76	1.61
11	AB	3407	DA	O3'-P	10.52	1.76	1.61
11	AB	7082	DT	O3'-P	10.52	1.76	1.61
52	E6	27	DA	O3'-P	10.52	1.76	1.61
82	H2	53	DA	O3'-P	10.52	1.76	1.61
11	AB	3218	DA	O3'-P	10.52	1.76	1.61
11	AB	3702	DT	O3'-P	10.52	1.76	1.61
11	AB	3862	DA	O3'-P	10.52	1.76	1.61
11	AB	3951	DT	O3'-P	10.52	1.76	1.61
11	AB	4240	DT	O3'-P	10.52	1.76	1.61
11	AB	4653	DA	O3'-P	10.52	1.76	1.61
11	AB	5151	DT	O3'-P	10.52	1.76	1.61
11	AB	6564	DT	O3'-P	10.52	1.76	1.61
11	AB	7153	DA	O3'-P	10.52	1.76	1.61
11	AB	7192	DT	O3'-P	10.52	1.76	1.61
95	I5	21	DA	O3'-P	10.52	1.76	1.61
61	F3	5	DT	O3'-P	10.52	1.76	1.61
114	K1	30	DA	O3'-P	10.52	1.76	1.61
165	OD	54	DA	O3'-P	10.52	1.76	1.61
230	W3	12	DT	O3'-P	10.52	1.76	1.61
11	AB	1067	DT	O3'-P	10.52	1.76	1.61
11	AB	1638	DA	O3'-P	10.52	1.76	1.61
11	AB	3417	DA	O3'-P	10.52	1.76	1.61
11	AB	5634	DA	O3'-P	10.52	1.76	1.61
14	B1	19	DA	O3'-P	10.52	1.76	1.61
42	D7	6	DT	O3'-P	10.52	1.76	1.61
11	AB	2217	DA	O3'-P	10.52	1.76	1.61
11	AB	2961	DT	O3'-P	10.52	1.76	1.61
11	AB	3660	DT	O3'-P	10.52	1.76	1.61
11	AB	4833	DA	O3'-P	10.52	1.76	1.61
11	AB	4924	DT	O3'-P	10.52	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5748	DA	O3'-P	10.52	1.76	1.61
22	B9	12	DA	O3'-P	10.52	1.76	1.61
11	AB	5836	DA	O3'-P	10.52	1.76	1.61
11	AB	5948	DA	O3'-P	10.52	1.76	1.61
11	AB	7135	DA	O3'-P	10.52	1.76	1.61
24	BC	14	DA	O3'-P	10.52	1.76	1.61
11	AB	7198	DT	O3'-P	10.52	1.76	1.61
29	C5	2	DT	O3'-P	10.52	1.76	1.61
69	FD	1	DA	O3'-P	10.52	1.76	1.61
90	HC	26	DA	O3'-P	10.52	1.76	1.61
122	KA	26	DA	O3'-P	10.52	1.76	1.61
115	K2	14	DT	O3'-P	10.52	1.76	1.61
187	R5	26	DA	O3'-P	10.52	1.76	1.61
190	R9	12	DA	O3'-P	10.52	1.76	1.61
216	U8	23	DT	O3'-P	10.52	1.76	1.61
222	V3	23	DT	O3'-P	10.52	1.76	1.61
2	A2	22	DT	O3'-P	10.51	1.76	1.61
6	A6	8	DA	O3'-P	10.51	1.76	1.61
11	AB	1850	DT	O3'-P	10.51	1.76	1.61
11	AB	5193	DA	O3'-P	10.51	1.76	1.61
11	AB	5657	DA	O3'-P	10.51	1.76	1.61
8	A8	15	DA	O3'-P	10.51	1.76	1.61
11	AB	215	DT	O3'-P	10.51	1.76	1.61
11	AB	269	DA	O3'-P	10.51	1.76	1.61
11	AB	832	DT	O3'-P	10.51	1.76	1.61
11	AB	1375	DT	O3'-P	10.51	1.76	1.61
11	AB	1610	DA	O3'-P	10.51	1.76	1.61
11	AB	1854	DT	O3'-P	10.51	1.76	1.61
11	AB	2212	DT	O3'-P	10.51	1.76	1.61
11	AB	5433	DA	O3'-P	10.51	1.76	1.61
11	AB	5839	DA	O3'-P	10.51	1.76	1.61
12	AC	21	DA	O3'-P	10.51	1.76	1.61
44	D9	22	DA	O3'-P	10.51	1.76	1.61
76	G8	5	DA	O3'-P	10.51	1.76	1.61
11	AB	1966	DT	O3'-P	10.51	1.76	1.61
11	AB	2728	DA	O3'-P	10.51	1.76	1.61
11	AB	2825	DT	O3'-P	10.51	1.76	1.61
11	AB	3444	DT	O3'-P	10.51	1.76	1.61
11	AB	3519	DT	O3'-P	10.51	1.76	1.61
11	AB	4095	DT	O3'-P	10.51	1.76	1.61
11	AB	5577	DT	O3'-P	10.51	1.76	1.61
11	AB	6297	DA	O3'-P	10.51	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	DA	10	DT	O3'-P	10.51	1.76	1.61
82	H2	35	DA	O3'-P	10.51	1.76	1.61
125	L1	1	DT	O3'-P	10.51	1.76	1.61
134	LC	9	DA	O3'-P	10.51	1.76	1.61
140	M7	12	DA	O3'-P	10.51	1.76	1.61
11	AB	4098	DT	O3'-P	10.51	1.76	1.61
11	AB	4958	DA	O3'-P	10.51	1.76	1.61
11	AB	5287	DT	O3'-P	10.51	1.76	1.61
11	AB	5610	DT	O3'-P	10.51	1.76	1.61
11	AB	5874	DT	O3'-P	10.51	1.76	1.61
11	AB	6674	DT	O3'-P	10.51	1.76	1.61
30	C6	2	DA	O3'-P	10.51	1.76	1.61
30	C6	30	DA	O3'-P	10.51	1.76	1.61
41	D6	8	DA	O3'-P	10.51	1.76	1.61
70	G1	4	DT	O3'-P	10.51	1.76	1.61
94	I3	16	DA	O3'-P	10.51	1.76	1.61
102	ID	20	DA	O3'-P	10.51	1.76	1.61
104	J2	2	DA	O3'-P	10.51	1.76	1.61
114	K1	43	DT	O3'-P	10.51	1.76	1.61
119	K7	12	DA	O3'-P	10.51	1.76	1.61
130	L7	33	DA	O3'-P	10.51	1.76	1.61
152	N9	1	DT	O3'-P	10.51	1.76	1.61
206	T7	8	DA	O3'-P	10.51	1.76	1.61
206	T7	22	DA	O3'-P	10.51	1.76	1.61
211	TD	22	DT	O3'-P	10.51	1.76	1.61
213	U3	15	DT	O3'-P	10.51	1.76	1.61
217	U9	27	DT	O3'-P	10.51	1.76	1.61
11	AB	304	DA	O3'-P	10.51	1.76	1.61
11	AB	1154	DT	O3'-P	10.51	1.76	1.61
11	AB	3741	DA	O3'-P	10.51	1.76	1.61
11	AB	4468	DT	O3'-P	10.51	1.76	1.61
11	AB	5092	DT	O3'-P	10.51	1.76	1.61
11	AB	5582	DT	O3'-P	10.51	1.76	1.61
11	AB	2094	DT	O3'-P	10.51	1.76	1.61
11	AB	2805	DT	O3'-P	10.51	1.76	1.61
11	AB	6041	DA	O3'-P	10.51	1.76	1.61
11	AB	6261	DT	O3'-P	10.51	1.76	1.61
11	AB	7071	DT	O3'-P	10.51	1.76	1.61
11	AB	7189	DT	O3'-P	10.51	1.76	1.61
43	D8	36	DA	O3'-P	10.51	1.76	1.61
82	H2	42	DA	O3'-P	10.51	1.76	1.61
108	J7	54	DA	O3'-P	10.51	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
119	K7	20	DT	O3'-P	10.51	1.76	1.61
156	O2	9	DT	O3'-P	10.51	1.76	1.61
202	SD	9	DA	O3'-P	10.51	1.76	1.61
204	T3	19	DT	O3'-P	10.51	1.76	1.61
1	A1	14	DA	O3'-P	10.51	1.76	1.61
4	A4	22	DT	O3'-P	10.51	1.76	1.61
11	AB	372	DT	O3'-P	10.51	1.76	1.61
11	AB	449	DT	O3'-P	10.51	1.76	1.61
11	AB	2509	DT	O3'-P	10.51	1.76	1.61
40	D5	23	DA	O3'-P	10.51	1.76	1.61
73	G5	6	DA	O3'-P	10.51	1.76	1.61
103	J1	12	DT	O3'-P	10.51	1.76	1.61
112	JC	11	DA	O3'-P	10.51	1.76	1.61
125	L1	47	DT	O3'-P	10.51	1.76	1.61
142	M9	20	DA	O3'-P	10.51	1.76	1.61
9	A9	7	DA	O3'-P	10.51	1.76	1.61
11	AB	139	DA	O3'-P	10.51	1.76	1.61
11	AB	1058	DA	O3'-P	10.51	1.76	1.61
11	AB	845	DT	O3'-P	10.51	1.76	1.61
11	AB	1405	DT	O3'-P	10.51	1.76	1.61
11	AB	2867	DT	O3'-P	10.51	1.76	1.61
11	AB	3315	DT	O3'-P	10.51	1.76	1.61
11	AB	3583	DA	O3'-P	10.51	1.76	1.61
11	AB	3687	DT	O3'-P	10.51	1.76	1.61
11	AB	3805	DA	O3'-P	10.51	1.76	1.61
11	AB	4282	DT	O3'-P	10.51	1.76	1.61
11	AB	5008	DT	O3'-P	10.51	1.76	1.61
11	AB	6922	DA	O3'-P	10.51	1.76	1.61
169	P6	15	DA	O3'-P	10.51	1.76	1.61
32	C8	14	DT	O3'-P	10.51	1.76	1.61
84	H5	8	DT	O3'-P	10.51	1.76	1.61
84	H5	13	DA	O3'-P	10.51	1.76	1.61
92	I1	12	DA	O3'-P	10.51	1.76	1.61
145	MD	23	DA	O3'-P	10.51	1.76	1.61
154	NC	29	DA	O3'-P	10.51	1.76	1.61
166	P2	5	DT	O3'-P	10.51	1.76	1.61
187	R5	22	DA	O3'-P	10.51	1.76	1.61
189	R8	30	DA	O3'-P	10.51	1.76	1.61
192	RC	32	DT	O3'-P	10.51	1.76	1.61
203	T2	25	DA	O3'-P	10.51	1.76	1.61
206	T7	35	DA	O3'-P	10.51	1.76	1.61
225	V8	19	DA	O3'-P	10.51	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
238	X9	6	DT	O3'-P	10.51	1.76	1.61
3	A3	19	DA	O3'-P	10.50	1.76	1.61
7	A7	10	DT	O3'-P	10.50	1.76	1.61
11	AB	419	DT	O3'-P	10.50	1.76	1.61
11	AB	1145	DT	O3'-P	10.50	1.76	1.61
11	AB	2408	DT	O3'-P	10.50	1.76	1.61
87	H8	20	DA	O3'-P	10.50	1.76	1.61
11	AB	578	DT	O3'-P	10.50	1.76	1.61
11	AB	2202	DT	O3'-P	10.50	1.76	1.61
11	AB	3251	DA	O3'-P	10.50	1.76	1.61
11	AB	4776	DA	O3'-P	10.50	1.76	1.61
11	AB	4885	DT	O3'-P	10.50	1.76	1.61
11	AB	5813	DT	O3'-P	10.50	1.76	1.61
11	AB	6420	DT	O3'-P	10.50	1.76	1.61
11	AB	6892	DT	O3'-P	10.50	1.76	1.61
31	C7	22	DA	O3'-P	10.50	1.76	1.61
41	D6	17	DT	O3'-P	10.50	1.76	1.61
67	FA	17	DA	O3'-P	10.50	1.76	1.61
80	GD	18	DA	O3'-P	10.50	1.76	1.61
109	J8	10	DA	O3'-P	10.50	1.76	1.61
119	K7	2	DA	O3'-P	10.50	1.76	1.61
138	M5	15	DT	O3'-P	10.50	1.76	1.61
145	MD	45	DT	O3'-P	10.50	1.76	1.61
192	RC	6	DA	O3'-P	10.50	1.76	1.61
11	AB	892	DA	O3'-P	10.50	1.76	1.61
11	AB	1705	DT	O3'-P	10.50	1.76	1.61
11	AB	3065	DA	O3'-P	10.50	1.76	1.61
11	AB	3150	DT	O3'-P	10.50	1.76	1.61
11	AB	3516	DT	O3'-P	10.50	1.76	1.61
75	G7	23	DA	O3'-P	10.50	1.76	1.61
148	N5	28	DA	O3'-P	10.50	1.76	1.61
170	P7	16	DA	O3'-P	10.50	1.76	1.61
11	AB	2400	DA	O3'-P	10.50	1.76	1.61
11	AB	3768	DT	O3'-P	10.50	1.76	1.61
11	AB	4270	DT	O3'-P	10.50	1.76	1.61
11	AB	5015	DT	O3'-P	10.50	1.76	1.61
11	AB	5467	DT	O3'-P	10.50	1.76	1.61
22	B9	3	DT	O3'-P	10.50	1.76	1.61
108	J7	19	DT	O3'-P	10.50	1.76	1.61
11	AB	5230	DT	O3'-P	10.50	1.76	1.61
11	AB	6490	DT	O3'-P	10.50	1.76	1.61
11	AB	6749	DT	O3'-P	10.50	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	7144	DA	O3'-P	10.50	1.76	1.61
19	B6	8	DT	O3'-P	10.50	1.76	1.61
114	K1	15	DA	O3'-P	10.50	1.76	1.61
47	DD	14	DT	O3'-P	10.50	1.76	1.61
102	ID	25	DA	O3'-P	10.50	1.76	1.61
126	L2	44	DA	O3'-P	10.50	1.76	1.61
132	L9	10	DA	O3'-P	10.50	1.76	1.61
156	O2	25	DT	O3'-P	10.50	1.76	1.61
182	QA	13	DA	O3'-P	10.50	1.76	1.61
230	W3	8	DT	O3'-P	10.50	1.76	1.61
9	A9	9	DA	O3'-P	10.50	1.76	1.61
11	AB	2555	DA	O3'-P	10.50	1.76	1.61
11	AB	6794	DT	O3'-P	10.50	1.76	1.61
190	R9	7	DT	O3'-P	10.50	1.76	1.61
11	AB	85	DA	O3'-P	10.50	1.76	1.61
11	AB	3632	DA	O3'-P	10.50	1.76	1.61
11	AB	4279	DT	O3'-P	10.50	1.76	1.61
11	AB	4294	DT	O3'-P	10.50	1.76	1.61
19	B6	16	DA	O3'-P	10.50	1.76	1.61
22	B9	23	DA	O3'-P	10.50	1.76	1.61
211	TD	12	DA	O3'-P	10.50	1.76	1.61
24	BC	33	DT	O3'-P	10.50	1.76	1.61
73	G5	21	DA	O3'-P	10.50	1.76	1.61
95	I5	41	DA	O3'-P	10.50	1.76	1.61
113	JD	37	DA	O3'-P	10.50	1.76	1.61
155	ND	6	DA	O3'-P	10.50	1.76	1.61
187	R5	17	DA	O3'-P	10.50	1.76	1.61
204	T3	37	DA	O3'-P	10.50	1.76	1.61
217	U9	10	DA	O3'-P	10.50	1.76	1.61
231	W5	22	DA	O3'-P	10.50	1.76	1.61
11	AB	413	DT	O3'-P	10.49	1.76	1.61
11	AB	434	DT	O3'-P	10.49	1.76	1.61
11	AB	440	DT	O3'-P	10.49	1.76	1.61
23	BA	32	DT	O3'-P	10.49	1.76	1.61
198	S8	7	DT	O3'-P	10.49	1.76	1.61
11	AB	212	DT	O3'-P	10.49	1.76	1.61
11	AB	680	DT	O3'-P	10.49	1.76	1.61
11	AB	2949	DA	O3'-P	10.49	1.76	1.61
15	B2	15	DA	O3'-P	10.49	1.76	1.61
77	G9	16	DT	O3'-P	10.49	1.76	1.61
206	T7	11	DT	O3'-P	10.49	1.76	1.61
206	T7	14	DT	O3'-P	10.49	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
223	V5	8	DA	O3'-P	10.49	1.76	1.61
11	AB	806	DT	O3'-P	10.49	1.76	1.61
11	AB	1676	DT	O3'-P	10.49	1.76	1.61
11	AB	2090	DT	O3'-P	10.49	1.76	1.61
11	AB	2389	DA	O3'-P	10.49	1.76	1.61
11	AB	2477	DA	O3'-P	10.49	1.76	1.61
11	AB	4949	DT	O3'-P	10.49	1.76	1.61
11	AB	5064	DT	O3'-P	10.49	1.76	1.61
14	B1	17	DA	O3'-P	10.49	1.76	1.61
124	KD	5	DT	O3'-P	10.49	1.76	1.61
172	P9	27	DT	O3'-P	10.49	1.76	1.61
174	PC	22	DT	O3'-P	10.49	1.76	1.61
233	W8	12	DA	O3'-P	10.49	1.76	1.61
6	A6	27	DA	O3'-P	10.49	1.76	1.61
11	AB	935	DT	O3'-P	10.49	1.76	1.61
11	AB	3429	DA	O3'-P	10.49	1.76	1.61
11	AB	3789	DT	O3'-P	10.49	1.76	1.61
11	AB	1160	DT	O3'-P	10.49	1.76	1.61
11	AB	3086	DA	O3'-P	10.49	1.76	1.61
11	AB	3656	DA	O3'-P	10.49	1.76	1.61
11	AB	4337	DA	O3'-P	10.49	1.76	1.61
11	AB	4724	DT	O3'-P	10.49	1.76	1.61
130	L7	54	DT	O3'-P	10.49	1.76	1.61
161	O8	52	DA	O3'-P	10.49	1.76	1.61
11	AB	5004	DT	O3'-P	10.49	1.76	1.61
32	C8	7	DA	O3'-P	10.49	1.76	1.61
35	CC	21	DA	O3'-P	10.49	1.76	1.61
48	E1	4	DA	O3'-P	10.49	1.76	1.61
67	FA	2	DA	O3'-P	10.49	1.76	1.61
86	H7	10	DT	O3'-P	10.49	1.76	1.61
154	NC	3	DT	O3'-P	10.49	1.76	1.61
214	U5	29	DA	O3'-P	10.49	1.76	1.61
215	U7	22	DT	O3'-P	10.49	1.76	1.61
223	V5	31	DA	O3'-P	10.49	1.76	1.61
224	V7	20	DA	O3'-P	10.49	1.76	1.61
9	A9	17	DA	O3'-P	10.49	1.76	1.61
11	AB	854	DT	O3'-P	10.49	1.76	1.61
11	AB	3309	DT	O3'-P	10.49	1.76	1.61
11	AB	3392	DA	O3'-P	10.49	1.76	1.61
11	AB	3413	DA	O3'-P	10.49	1.76	1.61
11	AB	5473	DA	O3'-P	10.49	1.76	1.61
11	AB	6457	DA	O3'-P	10.49	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	CA	10	DA	O3'-P	10.49	1.76	1.61
52	E6	29	DA	O3'-P	10.49	1.76	1.61
143	MA	33	DT	O3'-P	10.49	1.76	1.61
206	T7	49	DA	O3'-P	10.49	1.76	1.61
11	AB	389	DT	O3'-P	10.49	1.76	1.61
11	AB	1540	DT	O3'-P	10.49	1.76	1.61
11	AB	2832	DT	O3'-P	10.49	1.76	1.61
11	AB	3068	DA	O3'-P	10.49	1.76	1.61
11	AB	3777	DT	O3'-P	10.49	1.76	1.61
11	AB	5505	DA	O3'-P	10.49	1.76	1.61
11	AB	5551	DA	O3'-P	10.49	1.76	1.61
11	AB	5792	DT	O3'-P	10.49	1.76	1.61
11	AB	6356	DA	O3'-P	10.49	1.76	1.61
11	AB	7029	DA	O3'-P	10.49	1.76	1.61
11	AB	7128	DA	O3'-P	10.49	1.76	1.61
22	B9	27	DA	O3'-P	10.49	1.76	1.61
152	N9	46	DT	O3'-P	10.49	1.76	1.61
47	DD	37	DA	O3'-P	10.49	1.76	1.61
63	F6	16	DA	O3'-P	10.49	1.76	1.61
83	H3	4	DT	O3'-P	10.49	1.76	1.61
115	K2	26	DT	O3'-P	10.49	1.76	1.61
154	NC	20	DT	O3'-P	10.49	1.76	1.61
160	O7	15	DT	O3'-P	10.49	1.76	1.61
167	P3	28	DA	O3'-P	10.49	1.76	1.61
188	R7	12	DT	O3'-P	10.49	1.76	1.61
238	X9	48	DA	O3'-P	10.49	1.76	1.61
11	AB	4328	DT	O3'-P	10.48	1.76	1.61
11	AB	89	DA	O3'-P	10.48	1.76	1.61
11	AB	326	DA	O3'-P	10.48	1.76	1.61
11	AB	1151	DT	O3'-P	10.48	1.76	1.61
11	AB	6049	DA	O3'-P	10.48	1.76	1.61
11	AB	3513	DT	O3'-P	10.48	1.76	1.61
60	F2	21	DA	O3'-P	10.48	1.76	1.61
98	I8	36	DA	O3'-P	10.48	1.76	1.61
98	I8	43	DT	O3'-P	10.48	1.76	1.61
146	N2	13	DA	O3'-P	10.48	1.76	1.61
186	R3	10	DA	O3'-P	10.48	1.76	1.61
5	A5	2	DT	O3'-P	10.48	1.76	1.61
11	AB	69	DA	O3'-P	10.48	1.76	1.61
11	AB	5256	DA	O3'-P	10.48	1.76	1.61
121	K9	19	DT	O3'-P	10.48	1.76	1.61
11	AB	264	DT	O3'-P	10.48	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	650	DT	O3'-P	10.48	1.76	1.61
11	AB	827	DT	O3'-P	10.48	1.76	1.61
11	AB	926	DT	O3'-P	10.48	1.76	1.61
11	AB	2000	DT	O3'-P	10.48	1.76	1.61
11	AB	2780	DA	O3'-P	10.48	1.76	1.61
11	AB	5240	DT	O3'-P	10.48	1.76	1.61
11	AB	6228	DT	O3'-P	10.48	1.76	1.61
29	C5	9	DA	O3'-P	10.48	1.76	1.61
30	C6	6	DA	O3'-P	10.48	1.76	1.61
48	E1	6	DA	O3'-P	10.48	1.76	1.61
90	HC	6	DT	O3'-P	10.48	1.76	1.61
187	R5	3	DA	O3'-P	10.48	1.76	1.61
11	AB	703	DA	O3'-P	10.48	1.76	1.61
11	AB	7024	DA	O3'-P	10.48	1.76	1.61
29	C5	41	DT	O3'-P	10.48	1.76	1.61
41	D6	34	DT	O3'-P	10.48	1.76	1.61
43	D8	7	DA	O3'-P	10.48	1.76	1.61
83	H3	10	DA	O3'-P	10.48	1.76	1.61
93	I2	23	DA	O3'-P	10.48	1.76	1.61
108	J7	10	DA	O3'-P	10.48	1.76	1.61
11	AB	4310	DA	O3'-P	10.48	1.76	1.61
56	EA	9	DA	O3'-P	10.48	1.76	1.61
83	H3	29	DA	O3'-P	10.48	1.76	1.61
157	O3	11	DA	O3'-P	10.48	1.76	1.61
165	OD	5	DA	O3'-P	10.48	1.76	1.61
204	T3	16	DT	O3'-P	10.48	1.76	1.61
11	AB	851	DT	O3'-P	10.47	1.76	1.61
11	AB	977	DT	O3'-P	10.47	1.76	1.61
11	AB	1696	DT	O3'-P	10.47	1.76	1.61
11	AB	1720	DT	O3'-P	10.47	1.76	1.61
11	AB	1802	DT	O3'-P	10.47	1.76	1.61
11	AB	2343	DT	O3'-P	10.47	1.76	1.61
11	AB	4519	DT	O3'-P	10.47	1.76	1.61
11	AB	2712	DA	O3'-P	10.47	1.76	1.61
11	AB	2828	DT	O3'-P	10.47	1.76	1.61
11	AB	3843	DT	O3'-P	10.47	1.76	1.61
11	AB	5805	DT	O3'-P	10.47	1.76	1.61
11	AB	5817	DT	O3'-P	10.47	1.76	1.61
11	AB	6344	DT	O3'-P	10.47	1.76	1.61
36	CD	13	DA	O3'-P	10.47	1.76	1.61
47	DD	40	DA	O3'-P	10.47	1.76	1.61
64	F7	13	DT	O3'-P	10.47	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
88	H9	9	DT	O3'-P	10.47	1.76	1.61
104	J2	20	DT	O3'-P	10.47	1.76	1.61
122	KA	4	DT	O3'-P	10.47	1.76	1.61
127	L3	3	DA	O3'-P	10.47	1.76	1.61
152	N9	37	DA	O3'-P	10.47	1.76	1.61
201	SC	10	DA	O3'-P	10.47	1.76	1.61
11	AB	1862	DA	O3'-P	10.47	1.76	1.61
11	AB	1976	DT	O3'-P	10.47	1.76	1.61
11	AB	1988	DT	O3'-P	10.47	1.76	1.61
11	AB	2568	DA	O3'-P	10.47	1.76	1.61
11	AB	3501	DT	O3'-P	10.47	1.76	1.61
123	KC	15	DT	O3'-P	10.47	1.76	1.61
124	KD	18	DA	O3'-P	10.47	1.76	1.61
153	NA	20	DA	O3'-P	10.47	1.76	1.61
205	T5	21	DA	O3'-P	10.47	1.76	1.61
215	U7	20	DT	O3'-P	10.47	1.76	1.61
11	AB	607	DT	O3'-P	10.47	1.76	1.61
11	AB	4019	DA	O3'-P	10.47	1.76	1.61
166	P2	27	DA	O3'-P	10.47	1.76	1.61
6	A6	22	DA	O3'-P	10.47	1.76	1.61
11	AB	112	DA	O3'-P	10.46	1.76	1.61
11	AB	730	DT	O3'-P	10.47	1.76	1.61
11	AB	4606	DT	O3'-P	10.47	1.76	1.61
11	AB	5398	DT	O3'-P	10.47	1.76	1.61
13	AD	31	DA	O3'-P	10.47	1.76	1.61
11	AB	2195	DT	O3'-P	10.46	1.76	1.61
11	AB	3459	DT	O3'-P	10.46	1.76	1.61
44	D9	6	DT	O3'-P	10.46	1.76	1.61
66	F9	6	DA	O3'-P	10.46	1.76	1.61
118	K6	8	DT	O3'-P	10.47	1.76	1.61
159	O6	19	DA	O3'-P	10.46	1.76	1.61
226	V9	27	DT	O3'-P	10.47	1.76	1.61
11	AB	3675	DT	O3'-P	10.46	1.76	1.61
11	AB	3773	DT	O3'-P	10.46	1.76	1.61
11	AB	4965	DA	O3'-P	10.46	1.76	1.61
11	AB	5227	DT	O3'-P	10.46	1.76	1.61
11	AB	6498	DT	O3'-P	10.46	1.76	1.61
17	B4	21	DT	O3'-P	10.46	1.76	1.61
11	AB	1094	DT	O3'-P	10.46	1.76	1.61
11	AB	5922	DT	O3'-P	10.46	1.76	1.61
11	AB	6692	DA	O3'-P	10.46	1.76	1.61
57	EC	8	DT	O3'-P	10.46	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
67	FA	5	DA	O3'-P	10.46	1.76	1.61
85	H6	15	DA	O3'-P	10.46	1.76	1.61
102	ID	29	DA	O3'-P	10.46	1.76	1.61
108	J7	29	DT	O3'-P	10.46	1.76	1.61
152	N9	22	DA	O3'-P	10.46	1.76	1.61
11	AB	1432	DA	O3'-P	10.46	1.76	1.61
11	AB	2862	DT	O3'-P	10.46	1.76	1.61
11	AB	3174	DT	O3'-P	10.46	1.76	1.61
31	C7	2	DA	O3'-P	10.46	1.76	1.61
85	H6	30	DA	O3'-P	10.46	1.76	1.61
119	K7	38	DT	O3'-P	10.46	1.76	1.61
169	P6	17	DA	O3'-P	10.46	1.76	1.61
198	S8	26	DT	O3'-P	10.46	1.76	1.61
227	VA	10	DT	O3'-P	10.46	1.76	1.61
11	AB	953	DT	O3'-P	10.46	1.76	1.61
11	AB	3447	DT	O3'-P	10.46	1.76	1.61
11	AB	3809	DA	O3'-P	10.46	1.76	1.61
11	AB	4093	DT	O3'-P	10.46	1.76	1.61
128	L5	15	DA	O3'-P	10.46	1.76	1.61
11	AB	1091	DT	O3'-P	10.46	1.76	1.61
11	AB	2955	DT	O3'-P	10.46	1.76	1.61
11	AB	3231	DA	O3'-P	10.46	1.76	1.61
11	AB	4636	DA	O3'-P	10.46	1.76	1.61
219	UC	17	DA	O3'-P	10.46	1.76	1.61
11	AB	360	DT	O3'-P	10.46	1.76	1.61
11	AB	1298	DT	O3'-P	10.46	1.76	1.61
11	AB	4275	DT	O3'-P	10.46	1.76	1.61
116	K3	9	DA	O3'-P	10.46	1.76	1.61
119	K7	34	DT	O3'-P	10.46	1.76	1.61
11	AB	922	DA	O3'-P	10.45	1.76	1.61
11	AB	3605	DT	O3'-P	10.45	1.76	1.61
164	OC	25	DA	O3'-P	10.45	1.76	1.61
230	W3	47	DA	O3'-P	10.45	1.76	1.61
11	AB	4356	DT	O3'-P	10.45	1.76	1.61
11	AB	4794	DT	O3'-P	10.45	1.76	1.61
11	AB	4624	DA	O3'-P	10.45	1.76	1.61
55	E9	28	DT	O3'-P	10.45	1.76	1.61
154	NC	33	DT	O3'-P	10.45	1.76	1.61
207	T8	18	DT	O3'-P	10.45	1.76	1.61
81	H1	5	DT	O3'-P	10.45	1.76	1.61
11	AB	2417	DT	O3'-P	10.45	1.76	1.61
11	AB	3465	DT	O3'-P	10.45	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6317	DT	O3'-P	10.45	1.76	1.61
53	E7	10	DT	O3'-P	10.45	1.76	1.61
11	AB	907	DA	O3'-P	10.44	1.76	1.61
11	AB	1163	DT	O3'-P	10.44	1.76	1.61
11	AB	2261	DT	O3'-P	10.44	1.76	1.61
11	AB	6629	DA	O3'-P	10.44	1.76	1.61
32	C8	35	DA	O3'-P	10.44	1.76	1.61
76	G8	2	DT	O3'-P	10.44	1.76	1.61
128	L5	22	DA	O3'-P	10.44	1.76	1.61
161	O8	8	DA	O3'-P	10.44	1.76	1.61
11	AB	4552	DT	O3'-P	10.44	1.76	1.61
11	AB	4621	DT	O3'-P	10.44	1.76	1.61
55	E9	10	DT	O3'-P	10.44	1.76	1.61
11	AB	6023	DA	O3'-P	10.44	1.76	1.61
11	AB	7230	DT	O3'-P	10.44	1.76	1.61
11	AB	2186	DT	O3'-P	10.44	1.76	1.61
11	AB	4557	DA	O3'-P	10.44	1.76	1.61
11	AB	4709	DA	O3'-P	10.44	1.76	1.61
11	AB	6754	DA	O3'-P	10.44	1.76	1.61
181	Q9	19	DA	O3'-P	10.44	1.76	1.61
62	F5	47	DA	O3'-P	10.44	1.76	1.61
194	S2	17	DA	O3'-P	10.43	1.76	1.61
123	KC	17	DA	O3'-P	10.43	1.76	1.61
156	O2	58	DA	O3'-P	10.43	1.76	1.61
11	AB	962	DT	O3'-P	10.43	1.76	1.61
11	AB	6824	DA	O3'-P	10.42	1.76	1.61
11	AB	2798	DT	O3'-P	10.42	1.76	1.61
11	AB	284	DA	O3'-P	10.42	1.76	1.61
11	AB	3552	DA	O3'-P	10.41	1.76	1.61
149	N6	1	DT	O3'-P	10.41	1.76	1.61
228	VC	8	DT	O3'-P	10.41	1.76	1.61
101	IC	24	DT	O3'-P	10.41	1.76	1.61
11	AB	3635	DA	O3'-P	10.40	1.76	1.61
11	AB	5463	DT	O3'-P	10.40	1.76	1.61
61	F3	8	DA	O3'-P	10.40	1.76	1.61
43	D8	4	DA	O3'-P	10.39	1.76	1.61
11	AB	2765	DT	O3'-P	10.39	1.76	1.61
90	HC	20	DT	O3'-P	10.39	1.76	1.61
11	AB	4744	DT	O3'-P	10.38	1.76	1.61
219	UC	7	DT	O3'-P	10.37	1.76	1.61
158	O5	52	DT	O3'-P	10.36	1.76	1.61
11	AB	2882	DT	O3'-P	10.36	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4752	DT	O3'-P	10.36	1.76	1.61
11	AB	5111	DT	O3'-P	10.36	1.76	1.61
226	V9	3	DT	O3'-P	10.35	1.76	1.61
109	J8	48	DT	O3'-P	10.35	1.76	1.61
11	AB	4492	DT	O3'-P	10.35	1.76	1.61
11	AB	4570	DT	O3'-P	10.34	1.76	1.61
11	AB	5420	DT	O3'-P	10.34	1.76	1.61
11	AB	6207	DT	O3'-P	10.33	1.76	1.61
11	AB	3683	DT	O3'-P	10.33	1.76	1.61
16	B3	15	DT	O3'-P	10.33	1.76	1.61
11	AB	765	DT	O3'-P	10.33	1.76	1.61
11	AB	63	DT	O3'-P	10.32	1.76	1.61
140	M7	21	DT	O3'-P	10.32	1.76	1.61
11	AB	7027	DT	O3'-P	10.32	1.76	1.61
11	AB	713	DT	O3'-P	10.32	1.76	1.61
11	AB	1749	DT	O3'-P	10.32	1.76	1.61
11	AB	3375	DT	O3'-P	10.32	1.76	1.61
11	AB	5685	DT	O3'-P	10.32	1.76	1.61
11	AB	6713	DT	O3'-P	10.32	1.76	1.61
11	AB	6968	DT	O3'-P	10.32	1.76	1.61
49	E2	31	DT	O3'-P	10.32	1.76	1.61
108	J7	4	DT	O3'-P	10.32	1.76	1.61
22	B9	40	DT	O3'-P	10.32	1.76	1.61
65	F8	2	DT	O3'-P	10.32	1.76	1.61
11	AB	991	DT	O3'-P	10.31	1.76	1.61
11	AB	4364	DT	O3'-P	10.31	1.76	1.61
11	AB	7159	DT	O3'-P	10.31	1.76	1.61
56	EA	7	DT	O3'-P	10.31	1.76	1.61
11	AB	92	DT	O3'-P	10.31	1.76	1.61
11	AB	6517	DT	O3'-P	10.31	1.76	1.61
141	M8	14	DT	O3'-P	10.31	1.76	1.61
11	AB	539	DT	O3'-P	10.31	1.76	1.61
11	AB	3821	DT	O3'-P	10.31	1.76	1.61
11	AB	4841	DT	O3'-P	10.31	1.76	1.61
11	AB	890	DT	O3'-P	10.31	1.76	1.61
11	AB	1642	DT	O3'-P	10.31	1.76	1.61
11	AB	2760	DT	O3'-P	10.31	1.76	1.61
11	AB	3915	DT	O3'-P	10.31	1.76	1.61
11	AB	6285	DT	O3'-P	10.31	1.76	1.61
74	G6	20	DT	O3'-P	10.31	1.76	1.61
187	R5	24	DT	O3'-P	10.31	1.76	1.61
11	AB	28	DT	O3'-P	10.31	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1031	DT	O3'-P	10.31	1.76	1.61
11	AB	1180	DT	O3'-P	10.31	1.76	1.61
11	AB	3246	DT	O3'-P	10.31	1.76	1.61
11	AB	5953	DT	O3'-P	10.31	1.76	1.61
11	AB	1280	DT	O3'-P	10.30	1.76	1.61
11	AB	4334	DT	O3'-P	10.30	1.76	1.61
11	AB	5492	DT	O3'-P	10.30	1.76	1.61
11	AB	6018	DT	O3'-P	10.30	1.76	1.61
11	AB	6830	DT	O3'-P	10.30	1.76	1.61
11	AB	6856	DT	O3'-P	10.30	1.76	1.61
91	HD	14	DT	O3'-P	10.30	1.76	1.61
219	UC	12	DT	O3'-P	10.30	1.76	1.61
11	AB	320	DT	O3'-P	10.30	1.76	1.61
11	AB	800	DT	O3'-P	10.30	1.76	1.61
11	AB	5275	DT	O3'-P	10.30	1.76	1.61
11	AB	5680	DT	O3'-P	10.30	1.76	1.61
11	AB	315	DT	O3'-P	10.30	1.76	1.61
11	AB	788	DT	O3'-P	10.30	1.76	1.61
11	AB	1768	DT	O3'-P	10.30	1.76	1.61
11	AB	2017	DT	O3'-P	10.30	1.76	1.61
11	AB	1754	DT	O3'-P	10.30	1.76	1.61
11	AB	2532	DT	O3'-P	10.30	1.76	1.61
11	AB	2899	DT	O3'-P	10.30	1.76	1.61
11	AB	3398	DT	O3'-P	10.30	1.76	1.61
11	AB	4627	DT	O3'-P	10.30	1.76	1.61
11	AB	3965	DT	O3'-P	10.30	1.76	1.61
11	AB	5060	DT	O3'-P	10.30	1.76	1.61
11	AB	5574	DT	O3'-P	10.30	1.76	1.61
46	DC	5	DT	O3'-P	10.30	1.76	1.61
107	J6	11	DT	O3'-P	10.30	1.76	1.61
182	QA	10	DT	O3'-P	10.30	1.76	1.61
11	AB	1488	DT	O3'-P	10.29	1.76	1.61
11	AB	2300	DT	O3'-P	10.29	1.76	1.61
118	K6	17	DT	O3'-P	10.30	1.76	1.61
11	AB	3891	DT	O3'-P	10.29	1.76	1.61
11	AB	4410	DT	O3'-P	10.29	1.76	1.61
11	AB	5502	DT	O3'-P	10.30	1.76	1.61
11	AB	5571	DT	O3'-P	10.29	1.76	1.61
11	AB	6991	DT	O3'-P	10.30	1.76	1.61
32	C8	52	DT	O3'-P	10.29	1.76	1.61
69	FD	36	DT	O3'-P	10.29	1.76	1.61
73	G5	23	DT	O3'-P	10.29	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
96	I6	9	DT	O3'-P	10.29	1.76	1.61
11	AB	151	DT	O3'-P	10.29	1.76	1.61
11	AB	866	DT	O3'-P	10.29	1.76	1.61
11	AB	2621	DT	O3'-P	10.29	1.76	1.61
11	AB	6459	DT	O3'-P	10.29	1.76	1.61
160	O7	25	DT	O3'-P	10.29	1.76	1.61
179	Q7	20	DT	O3'-P	10.29	1.76	1.61
6	A6	20	DT	O3'-P	10.29	1.76	1.61
11	AB	869	DT	O3'-P	10.29	1.76	1.61
11	AB	872	DT	O3'-P	10.29	1.76	1.61
11	AB	1103	DT	O3'-P	10.29	1.76	1.61
11	AB	1259	DT	O3'-P	10.29	1.76	1.61
11	AB	1458	DT	O3'-P	10.29	1.76	1.61
11	AB	2034	DT	O3'-P	10.29	1.76	1.61
11	AB	2156	DT	O3'-P	10.29	1.76	1.61
11	AB	5118	DT	O3'-P	10.29	1.76	1.61
101	IC	12	DT	O3'-P	10.29	1.76	1.61
11	AB	2543	DT	O3'-P	10.29	1.76	1.61
11	AB	3887	DT	O3'-P	10.29	1.76	1.61
11	AB	5487	DT	O3'-P	10.29	1.76	1.61
11	AB	6772	DT	O3'-P	10.29	1.76	1.61
11	AB	5971	DT	O3'-P	10.29	1.76	1.61
11	AB	6210	DT	O3'-P	10.29	1.76	1.61
11	AB	6759	DT	O3'-P	10.29	1.76	1.61
11	AB	7108	DT	O3'-P	10.29	1.76	1.61
174	PC	13	DT	O3'-P	10.29	1.76	1.61
206	T7	4	DT	O3'-P	10.29	1.76	1.61
141	M8	20	DT	O3'-P	10.29	1.76	1.61
236	X5	8	DT	O3'-P	10.29	1.76	1.61
11	AB	3099	DT	O3'-P	10.29	1.76	1.61
11	AB	6222	DT	O3'-P	10.29	1.76	1.61
35	CC	29	DT	O3'-P	10.29	1.76	1.61
97	I7	13	DT	O3'-P	10.29	1.76	1.61
124	KD	22	DT	O3'-P	10.29	1.76	1.61
184	QD	13	DT	O3'-P	10.29	1.76	1.61
11	AB	6021	DT	O3'-P	10.28	1.76	1.61
11	AB	6119	DT	O3'-P	10.28	1.76	1.61
11	AB	3599	DT	O3'-P	10.28	1.76	1.61
54	E8	25	DT	O3'-P	10.28	1.76	1.61
11	AB	13	DT	O3'-P	10.28	1.76	1.61
11	AB	905	DT	O3'-P	10.28	1.76	1.61
11	AB	1874	DT	O3'-P	10.28	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3114	DT	O3'-P	10.28	1.76	1.61
11	AB	3276	DT	O3'-P	10.28	1.76	1.61
11	AB	3546	DT	O3'-P	10.28	1.76	1.61
11	AB	3794	DT	O3'-P	10.28	1.76	1.61
11	AB	5964	DT	O3'-P	10.28	1.76	1.61
11	AB	6836	DT	O3'-P	10.28	1.76	1.61
17	B4	10	DT	O3'-P	10.28	1.76	1.61
68	FC	4	DT	O3'-P	10.28	1.76	1.61
11	AB	3360	DT	O3'-P	10.28	1.76	1.61
11	AB	7002	DT	O3'-P	10.28	1.76	1.61
31	C7	14	DT	O3'-P	10.28	1.76	1.61
197	S7	9	DT	O3'-P	10.28	1.76	1.61
201	SC	4	DT	O3'-P	10.28	1.76	1.61
11	AB	2627	DT	O3'-P	10.28	1.76	1.61
11	AB	5771	DT	O3'-P	10.28	1.76	1.61
11	AB	6929	DT	O3'-P	10.28	1.76	1.61
31	C7	18	DT	O3'-P	10.28	1.76	1.61
121	K9	26	DT	O3'-P	10.28	1.76	1.61
148	N5	34	DT	O3'-P	10.28	1.76	1.61
11	AB	1346	DT	O3'-P	10.27	1.76	1.61
11	AB	2138	DT	O3'-P	10.27	1.76	1.61
11	AB	3420	DT	O3'-P	10.27	1.76	1.61
11	AB	6150	DT	O3'-P	10.27	1.76	1.61
11	AB	7014	DT	O3'-P	10.27	1.76	1.61
48	E1	20	DT	O3'-P	10.27	1.76	1.61
75	G7	25	DT	O3'-P	10.27	1.76	1.61
82	H2	37	DT	O3'-P	10.27	1.76	1.61
151	N8	14	DT	O3'-P	10.27	1.76	1.61
178	Q5	27	DT	O3'-P	10.27	1.76	1.61
197	S7	22	DT	O3'-P	10.27	1.76	1.61
11	AB	5272	DT	O3'-P	10.27	1.76	1.61
27	C2	8	DT	O3'-P	10.27	1.76	1.61
55	E9	37	DT	O3'-P	10.27	1.76	1.61
74	G6	32	DT	O3'-P	10.27	1.76	1.61
165	OD	31	DT	O3'-P	10.27	1.76	1.61
11	AB	2309	DT	O3'-P	10.27	1.76	1.61
11	AB	3038	DT	O3'-P	10.27	1.76	1.61
11	AB	3234	DT	O3'-P	10.27	1.76	1.61
11	AB	5182	DT	O3'-P	10.27	1.76	1.61
11	AB	7176	DT	O3'-P	10.27	1.76	1.61
34	CA	16	DT	O3'-P	10.27	1.76	1.61
93	I2	37	DT	O3'-P	10.27	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
96	I6	2	DT	O3'-P	10.27	1.76	1.61
138	M5	31	DT	O3'-P	10.27	1.76	1.61
11	AB	309	DT	O3'-P	10.26	1.76	1.61
11	AB	4889	DT	O3'-P	10.26	1.76	1.61
11	AB	6462	DT	O3'-P	10.26	1.76	1.61
11	AB	7122	DT	O3'-P	10.26	1.76	1.61
218	UA	4	DT	O3'-P	10.26	1.76	1.61
161	O8	22	DT	O3'-P	10.26	1.76	1.61
222	V3	9	DT	O3'-P	10.26	1.76	1.61
11	AB	24	DT	O3'-P	10.26	1.76	1.61
11	AB	122	DT	O3'-P	10.26	1.76	1.61
11	AB	339	DT	O3'-P	10.26	1.76	1.61
11	AB	1627	DT	O3'-P	10.26	1.76	1.61
11	AB	1787	DT	O3'-P	10.26	1.76	1.61
11	AB	2378	DT	O3'-P	10.26	1.76	1.61
11	AB	7150	DT	O3'-P	10.26	1.76	1.61
11	AB	31	DT	O3'-P	10.26	1.76	1.61
11	AB	136	DT	O3'-P	10.26	1.76	1.61
11	AB	332	DT	O3'-P	10.26	1.76	1.61
11	AB	896	DT	O3'-P	10.26	1.76	1.61
11	AB	2061	DT	O3'-P	10.26	1.76	1.61
11	AB	779	DT	O3'-P	10.26	1.76	1.61
11	AB	1199	DT	O3'-P	10.26	1.76	1.61
11	AB	1216	DT	O3'-P	10.26	1.76	1.61
11	AB	1364	DT	O3'-P	10.26	1.76	1.61
11	AB	2234	DT	O3'-P	10.26	1.76	1.61
11	AB	4067	DT	O3'-P	10.26	1.76	1.61
11	AB	5559	DT	O3'-P	10.26	1.76	1.61
11	AB	5760	DT	O3'-P	10.26	1.76	1.61
11	AB	1603	DT	O3'-P	10.26	1.76	1.61
11	AB	5733	DT	O3'-P	10.26	1.76	1.61
11	AB	5844	DT	O3'-P	10.26	1.76	1.61
11	AB	5906	DT	O3'-P	10.26	1.76	1.61
11	AB	6290	DT	O3'-P	10.26	1.76	1.61
22	B9	44	DT	O3'-P	10.26	1.76	1.61
28	C3	12	DT	O3'-P	10.26	1.76	1.61
30	C6	15	DT	O3'-P	10.26	1.76	1.61
211	TD	16	DT	O3'-P	10.26	1.76	1.61
11	AB	2892	DT	O3'-P	10.26	1.76	1.61
11	AB	6904	DT	O3'-P	10.26	1.76	1.61
95	I5	17	DT	O3'-P	10.26	1.76	1.61
99	I9	19	DT	O3'-P	10.26	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
117	K5	31	DT	O3'-P	10.26	1.76	1.61
125	L1	24	DT	O3'-P	10.26	1.76	1.61
126	L2	23	DT	O3'-P	10.26	1.76	1.61
11	AB	1340	DT	O3'-P	10.25	1.76	1.61
11	AB	2537	DT	O3'-P	10.25	1.76	1.61
11	AB	3405	DT	O3'-P	10.25	1.76	1.61
11	AB	4900	DT	O3'-P	10.25	1.76	1.61
82	H2	46	DT	O3'-P	10.25	1.76	1.61
109	J8	39	DT	O3'-P	10.25	1.76	1.61
232	W7	5	DT	O3'-P	10.25	1.76	1.61
232	W7	11	DT	O3'-P	10.25	1.76	1.61
11	AB	1112	DT	O3'-P	10.25	1.76	1.61
11	AB	3681	DT	O3'-P	10.25	1.76	1.61
11	AB	3726	DT	O3'-P	10.25	1.76	1.61
11	AB	5655	DT	O3'-P	10.25	1.76	1.61
11	AB	6384	DT	O3'-P	10.25	1.76	1.61
11	AB	6539	DT	O3'-P	10.25	1.76	1.61
11	AB	6619	DT	O3'-P	10.25	1.76	1.61
107	J6	42	DT	O3'-P	10.25	1.76	1.61
122	KA	43	DT	O3'-P	10.25	1.76	1.61
3	A3	22	DT	O3'-P	10.25	1.76	1.61
11	AB	473	DT	O3'-P	10.25	1.76	1.61
11	AB	482	DT	O3'-P	10.25	1.76	1.61
11	AB	2294	DT	O3'-P	10.25	1.76	1.61
11	AB	5847	DT	O3'-P	10.25	1.76	1.61
11	AB	5898	DT	O3'-P	10.25	1.76	1.61
11	AB	6542	DT	O3'-P	10.25	1.76	1.61
56	EA	11	DT	O3'-P	10.25	1.76	1.61
120	K8	5	DT	O3'-P	10.25	1.76	1.61
136	M2	5	DT	O3'-P	10.25	1.76	1.61
174	PC	18	DT	O3'-P	10.25	1.76	1.61
200	SA	10	DT	O3'-P	10.25	1.76	1.61
223	V5	12	DT	O3'-P	10.25	1.76	1.61
11	AB	17	DT	O3'-P	10.24	1.76	1.61
11	AB	3368	DT	O3'-P	10.24	1.76	1.61
11	AB	5429	DT	O3'-P	10.24	1.76	1.61
47	DD	28	DT	O3'-P	10.24	1.76	1.61
11	AB	1428	DT	O3'-P	10.24	1.76	1.61
11	AB	2278	DT	O3'-P	10.24	1.76	1.61
11	AB	6767	DT	O3'-P	10.24	1.76	1.61
102	ID	16	DT	O3'-P	10.24	1.76	1.61
108	J7	52	DT	O3'-P	10.24	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
113	JD	29	DT	O3'-P	10.24	1.76	1.61
117	K5	26	DT	O3'-P	10.24	1.76	1.61
11	AB	4742	DT	O3'-P	10.24	1.76	1.61
175	PD	7	DT	O3'-P	10.24	1.76	1.61
207	T8	8	DT	O3'-P	10.24	1.76	1.61
11	AB	878	DT	O3'-P	10.24	1.76	1.61
11	AB	1263	DT	O3'-P	10.24	1.76	1.61
11	AB	1337	DT	O3'-P	10.24	1.76	1.61
11	AB	3386	DT	O3'-P	10.24	1.76	1.61
11	AB	3390	DT	O3'-P	10.24	1.76	1.61
188	R7	4	DT	O3'-P	10.24	1.76	1.61
11	AB	983	DT	O3'-P	10.24	1.76	1.61
11	AB	1361	DT	O3'-P	10.24	1.76	1.61
11	AB	4788	DT	O3'-P	10.24	1.76	1.61
31	C7	29	DT	O3'-P	10.24	1.76	1.61
33	C9	8	DT	O3'-P	10.24	1.76	1.61
102	ID	1	DT	O3'-P	10.24	1.76	1.61
178	Q5	23	DT	O3'-P	10.24	1.76	1.61
11	AB	1781	DT	O3'-P	10.24	1.76	1.61
172	P9	14	DT	O3'-P	10.24	1.76	1.61
11	AB	899	DT	O3'-P	10.24	1.76	1.61
11	AB	920	DT	O3'-P	10.24	1.76	1.61
134	LC	11	DT	O3'-P	10.24	1.76	1.61
189	R8	26	DT	O3'-P	10.24	1.76	1.61
195	S3	4	DT	O3'-P	10.24	1.76	1.61
207	T8	6	DT	O3'-P	10.24	1.76	1.61
11	AB	1590	DT	O3'-P	10.23	1.76	1.61
11	AB	5976	DT	O3'-P	10.23	1.76	1.61
199	S9	17	DT	O3'-P	10.23	1.76	1.61
11	AB	3242	DT	O3'-P	10.23	1.76	1.61
11	AB	4374	DT	O3'-P	10.23	1.76	1.61
56	EA	14	DT	O3'-P	10.23	1.76	1.61
149	N6	25	DT	O3'-P	10.23	1.76	1.61
177	Q3	21	DT	O3'-P	10.23	1.76	1.61
11	AB	1274	DT	O3'-P	10.23	1.76	1.61
11	AB	3423	DT	O3'-P	10.23	1.76	1.61
11	AB	3651	DT	O3'-P	10.23	1.76	1.61
11	AB	4746	DT	O3'-P	10.23	1.76	1.61
11	AB	5322	DT	O3'-P	10.23	1.76	1.61
11	AB	5755	DT	O3'-P	10.23	1.76	1.61
11	AB	6984	DT	O3'-P	10.23	1.76	1.61
85	H6	25	DT	O3'-P	10.23	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	545	DT	O3'-P	10.23	1.76	1.61
11	AB	911	DT	O3'-P	10.23	1.76	1.61
11	AB	1479	DT	O3'-P	10.23	1.76	1.61
11	AB	1633	DT	O3'-P	10.23	1.76	1.61
11	AB	6519	DT	O3'-P	10.23	1.76	1.61
88	H9	13	DT	O3'-P	10.23	1.76	1.61
129	L6	5	DT	O3'-P	10.23	1.76	1.61
194	S2	28	DT	O3'-P	10.23	1.76	1.61
11	AB	2943	DT	O3'-P	10.23	1.76	1.61
11	AB	3540	DT	O3'-P	10.23	1.76	1.61
11	AB	3870	DT	O3'-P	10.23	1.76	1.61
11	AB	4037	DT	O3'-P	10.23	1.76	1.61
11	AB	6627	DT	O3'-P	10.23	1.76	1.61
119	K7	26	DT	O3'-P	10.23	1.76	1.61
11	AB	5424	DT	O3'-P	10.22	1.76	1.61
11	AB	6513	DT	O3'-P	10.22	1.76	1.61
212	U2	9	DT	O3'-P	10.22	1.76	1.61
84	H5	19	DT	O3'-P	10.22	1.76	1.61
11	AB	5364	DT	O3'-P	10.22	1.76	1.61
11	AB	37	DT	O3'-P	10.22	1.76	1.61
11	AB	313	DT	O3'-P	10.22	1.76	1.61
11	AB	5049	DT	O3'-P	10.22	1.76	1.61
165	OD	34	DT	O3'-P	10.22	1.76	1.61
11	AB	2931	DT	O3'-P	10.22	1.76	1.61
11	AB	1115	DT	O3'-P	10.22	1.76	1.61
11	AB	4648	DT	O3'-P	10.22	1.76	1.61
234	W9	11	DT	O3'-P	10.22	1.76	1.61
11	AB	1193	DT	O3'-P	10.21	1.76	1.61
11	AB	2642	DT	O3'-P	10.21	1.76	1.61
11	AB	3738	DT	O3'-P	10.22	1.76	1.61
11	AB	3894	DT	O3'-P	10.22	1.76	1.61
174	PC	9	DT	O3'-P	10.22	1.76	1.61
11	AB	5027	DT	O3'-P	10.21	1.76	1.61
94	I3	54	DT	O3'-P	10.21	1.76	1.61
11	AB	1082	DT	O3'-P	10.21	1.76	1.61
11	AB	1286	DT	O3'-P	10.21	1.76	1.61
11	AB	1588	DT	O3'-P	10.21	1.76	1.61
11	AB	3924	DT	O3'-P	10.21	1.76	1.61
11	AB	344	DT	O3'-P	10.21	1.76	1.61
11	AB	4495	DT	O3'-P	10.21	1.76	1.61
11	AB	5823	DT	O3'-P	10.21	1.76	1.61
83	H3	18	DT	O3'-P	10.21	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
180	Q8	9	DT	O3'-P	10.21	1.76	1.61
39	D3	1	DT	O3'-P	10.21	1.76	1.61
109	J8	24	DT	O3'-P	10.21	1.76	1.61
11	AB	3363	DT	O3'-P	10.21	1.76	1.61
11	AB	6140	DT	O3'-P	10.21	1.76	1.61
11	AB	6779	DT	O3'-P	10.21	1.76	1.61
11	AB	3104	DT	O3'-P	10.20	1.76	1.61
11	AB	6268	DT	O3'-P	10.20	1.76	1.61
11	AB	2365	DT	O3'-P	10.20	1.76	1.61
85	H6	20	DT	O3'-P	10.20	1.76	1.61
11	AB	1440	DT	O3'-P	10.20	1.76	1.61
11	AB	6114	DT	O3'-P	10.20	1.76	1.61
11	AB	6453	DT	O3'-P	10.20	1.76	1.61
137	M3	16	DT	O3'-P	10.20	1.76	1.61
9	A9	5	DT	O3'-P	10.20	1.76	1.61
11	AB	1772	DT	O3'-P	10.20	1.76	1.61
11	AB	2753	DT	O3'-P	10.20	1.76	1.61
58	ED	18	DT	O3'-P	10.19	1.76	1.61
11	AB	1666	DT	O3'-P	10.19	1.76	1.61
11	AB	2291	DT	O3'-P	10.19	1.76	1.61
11	AB	347	DT	O3'-P	10.19	1.76	1.61
11	AB	3752	DT	O3'-P	10.19	1.76	1.61
11	AB	4739	DT	O3'-P	10.19	1.76	1.61
11	AB	6327	DT	O3'-P	10.19	1.76	1.61
97	I7	29	DT	O3'-P	10.19	1.76	1.61
11	AB	2043	DT	O3'-P	10.18	1.76	1.61
11	AB	2159	DT	O3'-P	10.17	1.76	1.61
11	AB	3096	DT	O3'-P	10.17	1.76	1.61
11	AB	6615	DT	O3'-P	10.17	1.76	1.61
11	AB	6841	DT	O3'-P	10.17	1.76	1.61
11	AB	881	DT	O3'-P	10.16	1.76	1.61
161	O8	5	DT	O3'-P	10.16	1.76	1.61
11	AB	6437	DT	O3'-P	10.16	1.76	1.61
74	G6	34	DT	O3'-P	10.16	1.76	1.61
11	AB	302	DT	O3'-P	10.16	1.76	1.61
11	AB	2549	DT	O3'-P	10.16	1.76	1.61
11	AB	4306	DT	O3'-P	10.15	1.76	1.61
94	I3	42	DT	O3'-P	10.15	1.76	1.61
210	TC	6	DC	O3'-P	9.73	1.75	1.61
11	AB	1404	DC	O3'-P	9.71	1.75	1.61
99	I9	7	DC	O3'-P	9.70	1.75	1.61
215	U7	19	DC	O3'-P	9.69	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3674	DC	O3'-P	9.69	1.75	1.61
11	AB	7052	DC	O3'-P	9.69	1.75	1.61
183	QC	5	DC	O3'-P	9.69	1.75	1.61
11	AB	1128	DC	O3'-P	9.68	1.75	1.61
224	V7	6	DC	O3'-P	9.68	1.75	1.61
11	AB	576	DC	O3'-P	9.67	1.75	1.61
11	AB	3443	DC	O3'-P	9.67	1.75	1.61
198	S8	6	DC	O3'-P	9.67	1.75	1.61
172	P9	26	DC	O3'-P	9.67	1.75	1.61
210	TC	12	DC	O3'-P	9.67	1.75	1.61
11	AB	5079	DC	O3'-P	9.67	1.75	1.61
26	C1	14	DC	O3'-P	9.66	1.75	1.61
27	C2	21	DC	O3'-P	9.66	1.75	1.61
44	D9	10	DC	O3'-P	9.66	1.75	1.61
124	KD	4	DC	O3'-P	9.66	1.75	1.61
170	P7	7	DC	O3'-P	9.66	1.75	1.61
11	AB	1065	DC	O3'-P	9.66	1.75	1.61
11	AB	4467	DC	O3'-P	9.66	1.75	1.61
110	J9	7	DC	O3'-P	9.66	1.75	1.61
11	AB	601	DC	O3'-P	9.66	1.75	1.61
41	D6	16	DC	O3'-P	9.66	1.75	1.61
11	AB	1096	DC	O3'-P	9.65	1.75	1.61
11	AB	3340	DC	O3'-P	9.65	1.75	1.61
11	AB	5392	DC	O3'-P	9.65	1.75	1.61
171	P8	7	DC	O3'-P	9.65	1.75	1.61
11	AB	2972	DC	O3'-P	9.65	1.75	1.61
11	AB	961	DC	O3'-P	9.65	1.75	1.61
11	AB	1012	DC	O3'-P	9.65	1.75	1.61
11	AB	1306	DC	O3'-P	9.65	1.75	1.61
11	AB	4533	DC	O3'-P	9.65	1.75	1.61
11	AB	5795	DC	O3'-P	9.65	1.75	1.61
11	AB	2535	DC	O3'-P	9.65	1.75	1.61
32	C8	44	DC	O3'-P	9.65	1.75	1.61
144	MC	19	DC	O3'-P	9.65	1.75	1.61
11	AB	3509	DC	O3'-P	9.65	1.75	1.61
124	KD	7	DC	O3'-P	9.65	1.75	1.61
35	CC	15	DC	O3'-P	9.64	1.75	1.61
108	J7	16	DC	O3'-P	9.64	1.75	1.61
11	AB	2852	DC	O3'-P	9.64	1.75	1.61
11	AB	3446	DC	O3'-P	9.64	1.75	1.61
11	AB	196	DC	O3'-P	9.64	1.75	1.61
11	AB	5491	DC	O3'-P	9.64	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2584	DC	O3'-P	9.64	1.75	1.61
11	AB	3999	DC	O3'-P	9.64	1.75	1.61
11	AB	1972	DC	O3'-P	9.64	1.75	1.61
11	AB	379	DC	O3'-P	9.63	1.75	1.61
11	AB	418	DC	O3'-P	9.63	1.75	1.61
11	AB	3991	DC	O3'-P	9.63	1.75	1.61
11	AB	5461	DC	O3'-P	9.63	1.75	1.61
11	AB	6862	DC	O3'-P	9.63	1.75	1.61
11	AB	7114	DC	O3'-P	9.63	1.75	1.61
122	KA	6	DC	O3'-P	9.63	1.75	1.61
147	N3	26	DC	O3'-P	9.63	1.75	1.61
11	AB	115	DC	O3'-P	9.63	1.75	1.61
11	AB	1245	DC	O3'-P	9.63	1.75	1.61
11	AB	2843	DC	O3'-P	9.63	1.75	1.61
11	AB	6721	DC	O3'-P	9.63	1.75	1.61
138	M5	37	DC	O3'-P	9.63	1.75	1.61
11	AB	2984	DC	O3'-P	9.63	1.75	1.61
11	AB	5529	DC	O3'-P	9.63	1.75	1.61
11	AB	6077	DC	O3'-P	9.63	1.75	1.61
11	AB	6805	DC	O3'-P	9.63	1.75	1.61
11	AB	7045	DC	O3'-P	9.63	1.75	1.61
44	D9	19	DC	O3'-P	9.63	1.75	1.61
24	BC	31	DC	O3'-P	9.63	1.75	1.61
129	L6	21	DC	O3'-P	9.63	1.75	1.61
166	P2	33	DC	O3'-P	9.63	1.75	1.61
230	W3	7	DC	O3'-P	9.63	1.75	1.61
11	AB	1695	DC	O3'-P	9.63	1.75	1.61
11	AB	2353	DC	O3'-P	9.63	1.75	1.61
34	CA	15	DC	O3'-P	9.63	1.75	1.61
11	AB	831	DC	O3'-P	9.62	1.75	1.61
11	AB	1048	DC	O3'-P	9.62	1.75	1.61
11	AB	1536	DC	O3'-P	9.62	1.75	1.61
11	AB	1932	DC	O3'-P	9.62	1.75	1.61
11	AB	1951	DC	O3'-P	9.63	1.75	1.61
11	AB	6414	DC	O3'-P	9.63	1.75	1.61
11	AB	7182	DC	O3'-P	9.63	1.75	1.61
203	T2	5	DC	O3'-P	9.63	1.75	1.61
206	T7	13	DC	O3'-P	9.63	1.75	1.61
11	AB	1994	DC	O3'-P	9.62	1.75	1.61
11	AB	2425	DC	O3'-P	9.62	1.75	1.61
11	AB	3938	DC	O3'-P	9.62	1.75	1.61
11	AB	4253	DC	O3'-P	9.62	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4548	DC	O3'-P	9.62	1.75	1.61
220	UD	1	DC	O3'-P	9.62	1.75	1.61
11	AB	5783	DC	O3'-P	9.62	1.75	1.61
11	AB	6075	DC	O3'-P	9.62	1.75	1.61
67	FA	29	DC	O3'-P	9.62	1.75	1.61
11	AB	739	DC	O3'-P	9.62	1.75	1.61
11	AB	5596	DC	O3'-P	9.62	1.75	1.61
11	AB	7074	DC	O3'-P	9.62	1.75	1.61
111	JA	15	DC	O3'-P	9.62	1.75	1.61
217	U9	12	DC	O3'-P	9.62	1.75	1.61
233	W8	19	DC	O3'-P	9.62	1.75	1.61
11	AB	1542	DC	O3'-P	9.62	1.75	1.61
11	AB	4360	DC	O3'-P	9.62	1.75	1.61
11	AB	4395	DC	O3'-P	9.62	1.75	1.61
11	AB	6227	DC	O3'-P	9.62	1.75	1.61
82	H2	32	DC	O3'-P	9.62	1.75	1.61
11	AB	6253	DC	O3'-P	9.62	1.75	1.61
70	G1	3	DC	O3'-P	9.62	1.75	1.61
167	P3	33	DC	O3'-P	9.62	1.75	1.61
98	I8	26	DC	O3'-P	9.62	1.75	1.61
172	P9	22	DC	O3'-P	9.62	1.75	1.61
11	AB	191	DC	O3'-P	9.62	1.75	1.61
11	AB	256	DC	O3'-P	9.62	1.75	1.61
11	AB	391	DC	O3'-P	9.62	1.75	1.61
11	AB	574	DC	O3'-P	9.62	1.75	1.61
11	AB	1387	DC	O3'-P	9.61	1.75	1.61
11	AB	2823	DC	O3'-P	9.62	1.75	1.61
11	AB	3941	DC	O3'-P	9.62	1.75	1.61
11	AB	4242	DC	O3'-P	9.62	1.75	1.61
11	AB	5155	DC	O3'-P	9.62	1.75	1.61
11	AB	5397	DC	O3'-P	9.62	1.75	1.61
11	AB	5600	DC	O3'-P	9.62	1.75	1.61
11	AB	6131	DC	O3'-P	9.62	1.75	1.61
23	BA	27	DC	O3'-P	9.62	1.75	1.61
114	K1	42	DC	O3'-P	9.62	1.75	1.61
11	AB	4005	DC	O3'-P	9.61	1.75	1.61
11	AB	6736	DC	O3'-P	9.62	1.75	1.61
29	C5	23	DC	O3'-P	9.61	1.75	1.61
30	C6	12	DC	O3'-P	9.61	1.75	1.61
71	G2	6	DC	O3'-P	9.62	1.75	1.61
154	NC	2	DC	O3'-P	9.61	1.75	1.61
187	R5	12	DC	O3'-P	9.62	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
205	T5	6	DC	O3'-P	9.62	1.75	1.61
8	A8	22	DC	O3'-P	9.61	1.75	1.61
11	AB	959	DC	O3'-P	9.61	1.75	1.61
11	AB	1072	DC	O3'-P	9.61	1.75	1.61
11	AB	1849	DC	O3'-P	9.61	1.75	1.61
11	AB	3830	DC	O3'-P	9.61	1.75	1.61
11	AB	5930	DC	O3'-P	9.61	1.75	1.61
11	AB	6744	DC	O3'-P	9.61	1.75	1.61
64	F7	12	DC	O3'-P	9.61	1.75	1.61
11	AB	2618	DC	O3'-P	9.61	1.75	1.61
11	AB	2992	DC	O3'-P	9.61	1.75	1.61
11	AB	3512	DC	O3'-P	9.61	1.75	1.61
11	AB	4862	DC	O3'-P	9.61	1.75	1.61
11	AB	5469	DC	O3'-P	9.61	1.75	1.61
11	AB	6350	DC	O3'-P	9.61	1.75	1.61
11	AB	6860	DC	O3'-P	9.61	1.75	1.61
22	B9	6	DC	O3'-P	9.61	1.75	1.61
213	U3	20	DC	O3'-P	9.61	1.75	1.61
93	I2	43	DC	O3'-P	9.61	1.75	1.61
101	IC	23	DC	O3'-P	9.61	1.75	1.61
143	MA	15	DC	O3'-P	9.61	1.75	1.61
216	U8	21	DC	O3'-P	9.61	1.75	1.61
11	AB	211	DC	O3'-P	9.61	1.75	1.61
11	AB	844	DC	O3'-P	9.61	1.75	1.61
11	AB	1132	DC	O3'-P	9.61	1.75	1.61
11	AB	1511	DC	O3'-P	9.61	1.75	1.61
11	AB	1562	DC	O3'-P	9.61	1.75	1.61
11	AB	1801	DC	O3'-P	9.61	1.75	1.61
223	V5	23	DC	O3'-P	9.61	1.75	1.61
11	AB	2025	DC	O3'-P	9.61	1.75	1.61
11	AB	3764	DC	O3'-P	9.61	1.75	1.61
11	AB	4325	DC	O3'-P	9.61	1.75	1.61
11	AB	5522	DC	O3'-P	9.61	1.75	1.61
11	AB	7054	DC	O3'-P	9.61	1.75	1.61
11	AB	5140	DC	O3'-P	9.61	1.75	1.61
11	AB	571	DC	O3'-P	9.61	1.75	1.61
11	AB	1166	DC	O3'-P	9.61	1.75	1.61
11	AB	1574	DC	O3'-P	9.61	1.75	1.61
11	AB	2281	DC	O3'-P	9.61	1.75	1.61
11	AB	2521	DC	O3'-P	9.61	1.75	1.61
11	AB	3003	DC	O3'-P	9.61	1.75	1.61
11	AB	3149	DC	O3'-P	9.61	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3284	DC	O3'-P	9.61	1.75	1.61
11	AB	3301	DC	O3'-P	9.61	1.75	1.61
11	AB	3344	DC	O3'-P	9.61	1.75	1.61
11	AB	3493	DC	O3'-P	9.61	1.75	1.61
11	AB	3500	DC	O3'-P	9.61	1.75	1.61
11	AB	3695	DC	O3'-P	9.61	1.75	1.61
11	AB	5216	DC	O3'-P	9.61	1.75	1.61
11	AB	5800	DC	O3'-P	9.61	1.75	1.61
11	AB	5981	DC	O3'-P	9.61	1.75	1.61
43	D8	18	DC	O3'-P	9.61	1.75	1.61
62	F5	7	DC	O3'-P	9.61	1.75	1.61
104	J2	18	DC	O3'-P	9.61	1.75	1.61
114	K1	39	DC	O3'-P	9.61	1.75	1.61
60	F2	29	DC	O3'-P	9.61	1.75	1.61
163	OA	14	DC	O3'-P	9.61	1.75	1.61
172	P9	17	DC	O3'-P	9.61	1.75	1.61
197	S7	13	DC	O3'-P	9.61	1.75	1.61
204	T3	15	DC	O3'-P	9.61	1.75	1.61
207	T8	17	DC	O3'-P	9.61	1.75	1.61
208	T9	9	DC	O3'-P	9.61	1.75	1.61
209	TA	22	DC	O3'-P	9.61	1.75	1.61
221	V2	1	DC	O3'-P	9.61	1.75	1.61
11	AB	1285	DC	O3'-P	9.60	1.75	1.61
11	AB	1478	DC	O3'-P	9.60	1.75	1.61
11	AB	2100	DC	O3'-P	9.60	1.75	1.61
11	AB	3686	DC	O3'-P	9.60	1.75	1.61
11	AB	3988	DC	O3'-P	9.60	1.75	1.61
11	AB	4268	DC	O3'-P	9.60	1.75	1.61
11	AB	4544	DC	O3'-P	9.60	1.75	1.61
11	AB	4719	DC	O3'-P	9.60	1.75	1.61
11	AB	5243	DC	O3'-P	9.60	1.75	1.61
46	DC	9	DC	O3'-P	9.60	1.75	1.61
74	G6	22	DC	O3'-P	9.60	1.75	1.61
140	M7	9	DC	O3'-P	9.60	1.75	1.61
167	P3	23	DC	O3'-P	9.60	1.75	1.61
186	R3	20	DC	O3'-P	9.60	1.75	1.61
192	RC	21	DC	O3'-P	9.60	1.75	1.61
11	AB	1960	DC	O3'-P	9.60	1.75	1.61
11	AB	4124	DC	O3'-P	9.60	1.75	1.61
11	AB	4149	DC	O3'-P	9.60	1.75	1.61
37	D1	34	DC	O3'-P	9.60	1.75	1.61
51	E5	26	DC	O3'-P	9.60	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
178	Q5	12	DC	O3'-P	9.60	1.75	1.61
11	AB	1954	DC	O3'-P	9.60	1.75	1.61
11	AB	4007	DC	O3'-P	9.60	1.75	1.61
43	D8	29	DC	O3'-P	9.60	1.75	1.61
11	AB	1495	DC	O3'-P	9.60	1.75	1.61
11	AB	3191	DC	O3'-P	9.60	1.75	1.61
11	AB	3622	DC	O3'-P	9.60	1.75	1.61
11	AB	4464	DC	O3'-P	9.60	1.75	1.61
11	AB	6688	DC	O3'-P	9.60	1.75	1.61
72	G3	15	DC	O3'-P	9.60	1.75	1.61
92	I1	24	DC	O3'-P	9.60	1.75	1.61
212	U2	5	DC	O3'-P	9.60	1.75	1.61
220	UD	10	DC	O3'-P	9.60	1.75	1.61
128	L5	6	DC	O3'-P	9.60	1.75	1.61
1	A1	50	DC	O3'-P	9.60	1.75	1.61
11	AB	200	DC	O3'-P	9.60	1.75	1.61
11	AB	1704	DC	O3'-P	9.60	1.75	1.61
11	AB	3352	DC	O3'-P	9.60	1.75	1.61
11	AB	4373	DC	O3'-P	9.60	1.75	1.61
11	AB	5063	DC	O3'-P	9.60	1.75	1.61
11	AB	5527	DC	O3'-P	9.60	1.75	1.61
11	AB	6503	DC	O3'-P	9.60	1.75	1.61
35	CC	12	DC	O3'-P	9.60	1.75	1.61
39	D3	6	DC	O3'-P	9.60	1.75	1.61
189	R8	16	DC	O3'-P	9.60	1.75	1.61
11	AB	2675	DC	O3'-P	9.60	1.75	1.61
11	AB	5212	DC	O3'-P	9.60	1.75	1.61
11	AB	5239	DC	O3'-P	9.60	1.75	1.61
177	Q3	9	DC	O3'-P	9.60	1.75	1.61
196	S5	24	DC	O3'-P	9.60	1.75	1.61
11	AB	6486	DC	O3'-P	9.60	1.75	1.61
11	AB	6797	DC	O3'-P	9.60	1.75	1.61
11	AB	6807	DC	O3'-P	9.60	1.75	1.61
11	AB	7219	DC	O3'-P	9.60	1.75	1.61
114	K1	8	DC	O3'-P	9.60	1.75	1.61
11	AB	743	DC	O3'-P	9.59	1.75	1.61
11	AB	932	DC	O3'-P	9.59	1.75	1.61
11	AB	1693	DC	O3'-P	9.59	1.75	1.61
106	J5	8	DC	O3'-P	9.59	1.75	1.61
11	AB	1150	DC	O3'-P	9.59	1.75	1.61
11	AB	1370	DC	O3'-P	9.59	1.75	1.61
11	AB	1396	DC	O3'-P	9.59	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2846	DC	O3'-P	9.59	1.75	1.61
11	AB	3498	DC	O3'-P	9.59	1.75	1.61
11	AB	3776	DC	O3'-P	9.59	1.75	1.61
11	AB	3904	DC	O3'-P	9.59	1.75	1.61
11	AB	6410	DC	O3'-P	9.59	1.75	1.61
11	AB	6756	DC	O3'-P	9.59	1.75	1.61
49	E2	24	DC	O3'-P	9.59	1.75	1.61
62	F5	20	DC	O3'-P	9.59	1.75	1.61
90	HC	5	DC	O3'-P	9.59	1.75	1.61
149	N6	3	DC	O3'-P	9.59	1.75	1.61
152	N9	27	DC	O3'-P	9.59	1.75	1.61
11	AB	592	DC	O3'-P	9.59	1.75	1.61
11	AB	709	DC	O3'-P	9.59	1.75	1.61
11	AB	1081	DC	O3'-P	9.59	1.75	1.61
11	AB	1893	DC	O3'-P	9.59	1.75	1.61
11	AB	2692	DC	O3'-P	9.59	1.75	1.61
11	AB	4136	DC	O3'-P	9.59	1.75	1.61
11	AB	62	DC	O3'-P	9.59	1.75	1.61
11	AB	863	DC	O3'-P	9.59	1.75	1.61
11	AB	1328	DC	O3'-P	9.59	1.75	1.61
11	AB	1560	DC	O3'-P	9.59	1.75	1.61
11	AB	1691	DC	O3'-P	9.59	1.75	1.61
11	AB	1968	DC	O3'-P	9.59	1.75	1.61
11	AB	2107	DC	O3'-P	9.59	1.75	1.61
11	AB	2176	DC	O3'-P	9.59	1.75	1.61
11	AB	3185	DC	O3'-P	9.59	1.75	1.61
11	AB	3464	DC	O3'-P	9.59	1.75	1.61
11	AB	3793	DC	O3'-P	9.59	1.75	1.61
11	AB	5302	DC	O3'-P	9.59	1.75	1.61
11	AB	3833	DC	O3'-P	9.59	1.75	1.61
11	AB	5020	DC	O3'-P	9.59	1.75	1.61
11	AB	5091	DC	O3'-P	9.59	1.75	1.61
11	AB	7191	DC	O3'-P	9.59	1.75	1.61
22	B9	20	DC	O3'-P	9.59	1.75	1.61
27	C2	12	DC	O3'-P	9.59	1.75	1.61
133	LA	7	DC	O3'-P	9.59	1.75	1.61
136	M2	1	DC	O3'-P	9.59	1.75	1.61
185	R2	13	DC	O3'-P	9.59	1.75	1.61
5	A5	32	DC	O3'-P	9.59	1.75	1.61
11	AB	205	DC	O3'-P	9.59	1.75	1.61
11	AB	387	DC	O3'-P	9.59	1.75	1.61
105	J3	16	DC	O3'-P	9.59	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
197	S7	21	DC	O3'-P	9.59	1.75	1.61
10	AA	5	DC	O3'-P	9.59	1.75	1.61
11	AB	1799	DC	O3'-P	9.59	1.75	1.61
11	AB	3485	DC	O3'-P	9.59	1.75	1.61
11	AB	3854	DC	O3'-P	9.59	1.75	1.61
11	AB	4726	DC	O3'-P	9.59	1.75	1.61
11	AB	6527	DC	O3'-P	9.59	1.75	1.61
18	B5	17	DC	O3'-P	9.59	1.75	1.61
11	AB	6792	DC	O3'-P	9.59	1.75	1.61
41	D6	6	DC	O3'-P	9.59	1.75	1.61
112	JC	13	DC	O3'-P	9.59	1.75	1.61
127	L3	17	DC	O3'-P	9.59	1.75	1.61
161	O8	17	DC	O3'-P	9.59	1.75	1.61
180	Q8	22	DC	O3'-P	9.59	1.75	1.61
238	X9	5	DC	O3'-P	9.59	1.75	1.61
11	AB	649	DC	O3'-P	9.58	1.75	1.61
11	AB	826	DC	O3'-P	9.58	1.75	1.61
11	AB	841	DC	O3'-P	9.58	1.75	1.61
11	AB	1240	DC	O3'-P	9.58	1.75	1.61
11	AB	1556	DC	O3'-P	9.58	1.75	1.61
11	AB	2211	DC	O3'-P	9.58	1.75	1.61
11	AB	3159	DC	O3'-P	9.58	1.75	1.61
11	AB	6408	DC	O3'-P	9.58	1.75	1.61
93	I2	46	DC	O3'-P	9.58	1.75	1.61
11	AB	1675	DC	O3'-P	9.58	1.75	1.61
11	AB	3827	DC	O3'-P	9.58	1.75	1.61
11	AB	3872	DC	O3'-P	9.58	1.75	1.61
11	AB	5585	DC	O3'-P	9.58	1.75	1.61
11	AB	5606	DC	O3'-P	9.58	1.75	1.61
11	AB	6182	DC	O3'-P	9.58	1.75	1.61
11	AB	6219	DC	O3'-P	9.58	1.75	1.61
46	DC	21	DC	O3'-P	9.58	1.75	1.61
54	E8	18	DC	O3'-P	9.58	1.75	1.61
90	HC	19	DC	O3'-P	9.58	1.75	1.61
125	L1	37	DC	O3'-P	9.58	1.75	1.61
156	O2	12	DC	O3'-P	9.58	1.75	1.61
11	AB	565	DC	O3'-P	9.58	1.75	1.61
11	AB	586	DC	O3'-P	9.58	1.75	1.61
11	AB	1093	DC	O3'-P	9.58	1.75	1.61
11	AB	6476	DC	O3'-P	9.58	1.75	1.61
65	F8	1	DC	O3'-P	9.58	1.75	1.61
11	AB	4146	DC	O3'-P	9.58	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5936	DC	O3'-P	9.58	1.75	1.61
72	G3	2	DC	O3'-P	9.58	1.75	1.61
82	H2	25	DC	O3'-P	9.58	1.75	1.61
160	O7	14	DC	O3'-P	9.58	1.75	1.61
171	P8	12	DC	O3'-P	9.58	1.75	1.61
186	R3	15	DC	O3'-P	9.58	1.75	1.61
202	SD	12	DC	O3'-P	9.58	1.75	1.61
227	VA	27	DC	O3'-P	9.58	1.75	1.61
231	W5	14	DC	O3'-P	9.58	1.75	1.61
11	AB	1812	DC	O3'-P	9.58	1.75	1.61
11	AB	2264	DC	O3'-P	9.58	1.75	1.61
11	AB	2669	DC	O3'-P	9.58	1.75	1.61
11	AB	2742	DC	O3'-P	9.58	1.75	1.61
11	AB	3296	DC	O3'-P	9.58	1.75	1.61
11	AB	3317	DC	O3'-P	9.58	1.75	1.61
11	AB	4189	DC	O3'-P	9.58	1.75	1.61
11	AB	6919	DC	O3'-P	9.58	1.75	1.61
83	H3	2	DC	O3'-P	9.58	1.75	1.61
212	U2	17	DC	O3'-P	9.58	1.75	1.61
11	AB	2650	DC	O3'-P	9.58	1.75	1.61
11	AB	4384	DC	O3'-P	9.58	1.75	1.61
11	AB	6051	DC	O3'-P	9.58	1.75	1.61
11	AB	7188	DC	O3'-P	9.58	1.75	1.61
188	R7	31	DC	O3'-P	9.58	1.75	1.61
11	AB	397	DC	O3'-P	9.57	1.75	1.61
11	AB	3515	DC	O3'-P	9.57	1.75	1.61
11	AB	3645	DC	O3'-P	9.57	1.75	1.61
11	AB	3950	DC	O3'-P	9.57	1.75	1.61
11	AB	299	DC	O3'-P	9.57	1.75	1.61
11	AB	1249	DC	O3'-P	9.57	1.75	1.61
11	AB	3616	DC	O3'-P	9.57	1.75	1.61
11	AB	4066	DC	O3'-P	9.57	1.75	1.61
11	AB	4155	DC	O3'-P	9.57	1.75	1.61
11	AB	5003	DC	O3'-P	9.57	1.75	1.61
11	AB	5376	DC	O3'-P	9.57	1.75	1.61
11	AB	5380	DC	O3'-P	9.57	1.75	1.61
57	EC	16	DC	O3'-P	9.57	1.75	1.61
156	O2	8	DC	O3'-P	9.57	1.75	1.61
162	O9	18	DC	O3'-P	9.57	1.75	1.61
4	A4	6	DC	O3'-P	9.57	1.75	1.61
11	AB	3294	DC	O3'-P	9.57	1.75	1.61
11	AB	4494	DC	O3'-P	9.57	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6103	DC	O3'-P	9.57	1.75	1.61
11	AB	1420	DC	O3'-P	9.57	1.75	1.61
11	AB	1602	DC	O3'-P	9.57	1.75	1.61
11	AB	3359	DC	O3'-P	9.57	1.75	1.61
11	AB	3452	DC	O3'-P	9.57	1.75	1.61
11	AB	3647	DC	O3'-P	9.57	1.75	1.61
11	AB	4119	DC	O3'-P	9.57	1.75	1.61
11	AB	4855	DC	O3'-P	9.57	1.75	1.61
11	AB	5861	DC	O3'-P	9.57	1.75	1.61
11	AB	7225	DC	O3'-P	9.57	1.75	1.61
82	H2	6	DC	O3'-P	9.57	1.75	1.61
83	H3	6	DC	O3'-P	9.57	1.75	1.61
147	N3	13	DC	O3'-P	9.57	1.75	1.61
158	O5	51	DC	O3'-P	9.57	1.75	1.61
11	AB	187	DC	O3'-P	9.57	1.75	1.61
11	AB	312	DC	O3'-P	9.57	1.75	1.61
11	AB	670	DC	O3'-P	9.57	1.75	1.61
11	AB	1147	DC	O3'-P	9.57	1.75	1.61
11	AB	1506	DC	O3'-P	9.57	1.75	1.61
11	AB	1522	DC	O3'-P	9.57	1.75	1.61
11	AB	2015	DC	O3'-P	9.57	1.75	1.61
11	AB	2185	DC	O3'-P	9.57	1.75	1.61
11	AB	2529	DC	O3'-P	9.57	1.75	1.61
11	AB	4938	DC	O3'-P	9.57	1.75	1.61
11	AB	5509	DC	O3'-P	9.57	1.75	1.61
11	AB	5699	DC	O3'-P	9.57	1.75	1.61
11	AB	7166	DC	O3'-P	9.57	1.75	1.61
11	AB	6383	DC	O3'-P	9.57	1.75	1.61
11	AB	6712	DC	O3'-P	9.57	1.75	1.61
54	E8	21	DC	O3'-P	9.57	1.75	1.61
84	H5	36	DC	O3'-P	9.57	1.75	1.61
117	K5	29	DC	O3'-P	9.57	1.75	1.61
121	K9	21	DC	O3'-P	9.57	1.75	1.61
11	AB	91	DC	O3'-P	9.56	1.75	1.61
11	AB	1183	DC	O3'-P	9.56	1.75	1.61
11	AB	2041	DC	O3'-P	9.56	1.75	1.61
181	Q9	7	DC	O3'-P	9.56	1.75	1.61
11	AB	280	DC	O3'-P	9.56	1.75	1.61
11	AB	322	DC	O3'-P	9.56	1.75	1.61
11	AB	343	DC	O3'-P	9.56	1.75	1.61
11	AB	6533	DC	O3'-P	9.56	1.75	1.61
11	AB	559	DC	O3'-P	9.56	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5511	DC	O3'-P	9.56	1.75	1.61
11	AB	5789	DC	O3'-P	9.56	1.75	1.61
11	AB	6909	DC	O3'-P	9.56	1.75	1.61
30	C6	26	DC	O3'-P	9.56	1.75	1.61
141	M8	27	DC	O3'-P	9.56	1.75	1.61
219	UC	6	DC	O3'-P	9.56	1.75	1.61
6	A6	14	DC	O3'-P	9.56	1.75	1.61
11	AB	48	DC	O3'-P	9.56	1.75	1.61
11	AB	919	DC	O3'-P	9.56	1.75	1.61
11	AB	1353	DC	O3'-P	9.56	1.75	1.61
11	AB	4647	DC	O3'-P	9.56	1.75	1.61
11	AB	4829	DC	O3'-P	9.56	1.75	1.61
100	IA	11	DC	O3'-P	9.56	1.75	1.61
11	AB	433	DC	O3'-P	9.56	1.75	1.61
11	AB	448	DC	O3'-P	9.56	1.75	1.61
11	AB	782	DC	O3'-P	9.56	1.75	1.61
11	AB	904	DC	O3'-P	9.56	1.75	1.61
11	AB	1162	DC	O3'-P	9.56	1.75	1.61
11	AB	1502	DC	O3'-P	9.56	1.75	1.61
11	AB	3011	DC	O3'-P	9.56	1.75	1.61
11	AB	3556	DC	O3'-P	9.56	1.75	1.61
11	AB	6555	DC	O3'-P	9.56	1.75	1.61
31	C7	17	DC	O3'-P	9.56	1.75	1.61
11	AB	4712	DC	O3'-P	9.56	1.75	1.61
11	AB	5663	DC	O3'-P	9.56	1.75	1.61
11	AB	5996	DC	O3'-P	9.56	1.75	1.61
11	AB	6118	DC	O3'-P	9.56	1.75	1.61
11	AB	6547	DC	O3'-P	9.56	1.75	1.61
11	AB	6551	DC	O3'-P	9.56	1.75	1.61
11	AB	6978	DC	O3'-P	9.56	1.75	1.61
11	AB	7237	DC	O3'-P	9.56	1.75	1.61
55	E9	23	DC	O3'-P	9.56	1.75	1.61
82	H2	44	DC	O3'-P	9.56	1.75	1.61
141	M8	19	DC	O3'-P	9.56	1.75	1.61
215	U7	12	DC	O3'-P	9.56	1.75	1.61
11	AB	1670	DC	O3'-P	9.56	1.75	1.61
11	AB	1915	DC	O3'-P	9.56	1.75	1.61
11	AB	2960	DC	O3'-P	9.56	1.75	1.61
11	AB	3977	DC	O3'-P	9.56	1.75	1.61
11	AB	4502	DC	O3'-P	9.56	1.75	1.61
11	AB	5499	DC	O3'-P	9.56	1.75	1.61
11	AB	5918	DC	O3'-P	9.56	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2497	DC	O3'-P	9.56	1.75	1.61
17	B4	20	DC	O3'-P	9.56	1.75	1.61
127	L3	5	DC	O3'-P	9.56	1.75	1.61
230	W3	31	DC	O3'-P	9.56	1.75	1.61
37	D1	37	DC	O3'-P	9.56	1.75	1.61
154	NC	32	DC	O3'-P	9.56	1.75	1.61
214	U5	10	DC	O3'-P	9.56	1.75	1.61
11	AB	778	DC	O3'-P	9.56	1.75	1.61
117	K5	10	DC	O3'-P	9.56	1.75	1.61
2	A2	14	DC	O3'-P	9.55	1.75	1.61
11	AB	664	DC	O3'-P	9.55	1.75	1.61
11	AB	2332	DC	O3'-P	9.55	1.75	1.61
11	AB	4287	DC	O3'-P	9.56	1.75	1.61
11	AB	4733	DC	O3'-P	9.55	1.75	1.61
181	Q9	22	DC	O3'-P	9.56	1.75	1.61
11	AB	694	DC	O3'-P	9.55	1.75	1.61
11	AB	1884	DC	O3'-P	9.55	1.75	1.61
11	AB	3450	DC	O3'-P	9.55	1.75	1.61
11	AB	4401	DC	O3'-P	9.55	1.75	1.61
122	KA	8	DC	O3'-P	9.55	1.75	1.61
162	O9	8	DC	O3'-P	9.55	1.75	1.61
11	AB	5459	DC	O3'-P	9.55	1.75	1.61
151	N8	7	DC	O3'-P	9.55	1.75	1.61
11	AB	175	DC	O3'-P	9.55	1.75	1.61
11	AB	519	DC	O3'-P	9.55	1.75	1.61
11	AB	2383	DC	O3'-P	9.55	1.75	1.61
11	AB	2645	DC	O3'-P	9.55	1.75	1.61
11	AB	3902	DC	O3'-P	9.55	1.75	1.61
148	N5	24	DC	O3'-P	9.55	1.75	1.61
11	AB	594	DC	O3'-P	9.55	1.75	1.61
11	AB	679	DC	O3'-P	9.55	1.75	1.61
11	AB	853	DC	O3'-P	9.55	1.75	1.61
11	AB	5828	DC	O3'-P	9.55	1.75	1.61
11	AB	6196	DC	O3'-P	9.55	1.75	1.61
11	AB	934	DC	O3'-P	9.55	1.75	1.61
11	AB	2897	DC	O3'-P	9.55	1.75	1.61
11	AB	3146	DC	O3'-P	9.55	1.75	1.61
11	AB	5853	DC	O3'-P	9.55	1.75	1.61
11	AB	6053	DC	O3'-P	9.55	1.75	1.61
11	AB	6284	DC	O3'-P	9.55	1.75	1.61
11	AB	6637	DC	O3'-P	9.55	1.75	1.61
11	AB	6903	DC	O3'-P	9.55	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	B7	19	DC	O3'-P	9.55	1.75	1.61
59	F1	11	DC	O3'-P	9.55	1.75	1.61
85	H6	24	DC	O3'-P	9.55	1.75	1.61
126	L2	8	DC	O3'-P	9.55	1.75	1.61
189	R8	8	DC	O3'-P	9.55	1.75	1.61
11	AB	529	DC	O3'-P	9.55	1.75	1.61
11	AB	712	DC	O3'-P	9.55	1.75	1.61
11	AB	835	DC	O3'-P	9.55	1.75	1.61
11	AB	4592	DC	O3'-P	9.55	1.75	1.61
11	AB	5963	DC	O3'-P	9.55	1.75	1.61
11	AB	6155	DC	O3'-P	9.55	1.75	1.61
73	G5	3	DC	O3'-P	9.55	1.75	1.61
110	J9	21	DC	O3'-P	9.55	1.75	1.61
205	T5	18	DC	O3'-P	9.55	1.75	1.61
227	VA	8	DC	O3'-P	9.55	1.75	1.61
11	AB	1499	DC	O3'-P	9.55	1.75	1.61
11	AB	1598	DC	O3'-P	9.55	1.75	1.61
11	AB	3320	DC	O3'-P	9.55	1.75	1.61
11	AB	4594	DC	O3'-P	9.55	1.75	1.61
31	C7	6	DC	O3'-P	9.55	1.75	1.61
138	M5	30	DC	O3'-P	9.55	1.75	1.61
159	O6	16	DC	O3'-P	9.55	1.75	1.61
195	S3	3	DC	O3'-P	9.55	1.75	1.61
11	AB	416	DC	O3'-P	9.54	1.75	1.61
11	AB	1436	DC	O3'-P	9.54	1.75	1.61
11	AB	1872	DC	O3'-P	9.54	1.75	1.61
11	AB	2147	DC	O3'-P	9.54	1.75	1.61
11	AB	6276	DC	O3'-P	9.54	1.75	1.61
11	AB	6470	DC	O3'-P	9.54	1.75	1.61
84	H5	29	DC	O3'-P	9.54	1.75	1.61
139	M6	5	DC	O3'-P	9.54	1.75	1.61
156	O2	33	DC	O3'-P	9.54	1.75	1.61
2	A2	21	DC	O3'-P	9.54	1.75	1.61
11	AB	1041	DC	O3'-P	9.54	1.75	1.61
4	A4	17	DC	O3'-P	9.54	1.75	1.61
11	AB	1054	DC	O3'-P	9.54	1.75	1.61
11	AB	1626	DC	O3'-P	9.54	1.75	1.61
11	AB	1771	DC	O3'-P	9.54	1.75	1.61
11	AB	2059	DC	O3'-P	9.54	1.75	1.61
11	AB	2437	DC	O3'-P	9.54	1.75	1.61
11	AB	3143	DC	O3'-P	9.54	1.75	1.61
11	AB	3260	DC	O3'-P	9.54	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4172	DC	O3'-P	9.54	1.75	1.61
11	AB	6888	DC	O3'-P	9.54	1.75	1.61
11	AB	5589	DC	O3'-P	9.54	1.75	1.61
11	AB	5696	DC	O3'-P	9.54	1.75	1.61
11	AB	5939	DC	O3'-P	9.54	1.75	1.61
11	AB	7118	DC	O3'-P	9.54	1.75	1.61
11	AB	7149	DC	O3'-P	9.54	1.75	1.61
41	D6	36	DC	O3'-P	9.54	1.75	1.61
60	F2	7	DC	O3'-P	9.54	1.75	1.61
164	OC	8	DC	O3'-P	9.54	1.75	1.61
11	AB	7229	DC	O3'-P	9.54	1.75	1.61
83	H3	16	DC	O3'-P	9.54	1.75	1.61
143	MA	32	DC	O3'-P	9.54	1.75	1.61
198	S8	37	DC	O3'-P	9.54	1.75	1.61
206	T7	3	DC	O3'-P	9.54	1.75	1.61
11	AB	538	DC	O3'-P	9.54	1.75	1.61
11	AB	4626	DC	O3'-P	9.54	1.75	1.61
11	AB	4922	DC	O3'-P	9.54	1.75	1.61
11	AB	6614	DC	O3'-P	9.54	1.75	1.61
41	D6	45	DC	O3'-P	9.54	1.75	1.61
11	AB	472	DC	O3'-P	9.54	1.75	1.61
11	AB	1579	DC	O3'-P	9.54	1.75	1.61
11	AB	6840	DC	O3'-P	9.54	1.75	1.61
14	B1	34	DC	O3'-P	9.54	1.75	1.61
214	U5	22	DC	O3'-P	9.54	1.75	1.61
11	AB	2611	DC	O3'-P	9.54	1.75	1.61
11	AB	3425	DC	O3'-P	9.54	1.75	1.61
11	AB	3923	DC	O3'-P	9.54	1.75	1.61
11	AB	4690	DC	O3'-P	9.54	1.75	1.61
11	AB	4948	DC	O3'-P	9.54	1.75	1.61
11	AB	5110	DC	O3'-P	9.54	1.75	1.61
11	AB	6359	DC	O3'-P	9.54	1.75	1.61
125	L1	41	DC	O3'-P	9.54	1.75	1.61
208	T9	21	DC	O3'-P	9.54	1.75	1.61
11	AB	544	DC	O3'-P	9.54	1.75	1.61
11	AB	4500	DC	O3'-P	9.54	1.75	1.61
69	FD	32	DC	O3'-P	9.54	1.75	1.61
93	I2	26	DC	O3'-P	9.54	1.75	1.61
187	R5	31	DC	O3'-P	9.54	1.75	1.61
208	T9	18	DC	O3'-P	9.54	1.75	1.61
11	AB	505	DC	O3'-P	9.53	1.75	1.61
11	AB	1210	DC	O3'-P	9.53	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1786	DC	O3'-P	9.53	1.75	1.61
11	AB	2260	DC	O3'-P	9.53	1.75	1.61
11	AB	2609	DC	O3'-P	9.53	1.75	1.61
11	AB	2638	DC	O3'-P	9.53	1.75	1.61
11	AB	4039	DC	O3'-P	9.53	1.75	1.61
11	AB	6231	DC	O3'-P	9.53	1.75	1.61
11	AB	6855	DC	O3'-P	9.53	1.75	1.61
11	AB	7161	DC	O3'-P	9.53	1.75	1.61
65	F8	12	DC	O3'-P	9.53	1.75	1.61
88	H9	12	DC	O3'-P	9.53	1.75	1.61
107	J6	23	DC	O3'-P	9.53	1.75	1.61
108	J7	51	DC	O3'-P	9.53	1.75	1.61
111	JA	18	DC	O3'-P	9.53	1.75	1.61
122	KA	42	DC	O3'-P	9.53	1.75	1.61
122	KA	46	DC	O3'-P	9.53	1.75	1.61
160	O7	21	DC	O3'-P	9.53	1.75	1.61
11	AB	463	DC	O3'-P	9.53	1.75	1.61
11	AB	764	DC	O3'-P	9.53	1.75	1.61
11	AB	1630	DC	O3'-P	9.53	1.75	1.61
11	AB	3713	DC	O3'-P	9.53	1.75	1.61
11	AB	3910	DC	O3'-P	9.53	1.75	1.61
11	AB	1000	DC	O3'-P	9.53	1.75	1.61
11	AB	1707	DC	O3'-P	9.53	1.75	1.61
11	AB	1867	DC	O3'-P	9.53	1.75	1.61
11	AB	4694	DC	O3'-P	9.53	1.75	1.61
11	AB	4810	DC	O3'-P	9.53	1.75	1.61
11	AB	5478	DC	O3'-P	9.53	1.75	1.61
11	AB	5825	DC	O3'-P	9.53	1.75	1.61
11	AB	6016	DC	O3'-P	9.53	1.75	1.61
21	B8	3	DC	O3'-P	9.53	1.75	1.61
75	G7	6	DC	O3'-P	9.53	1.75	1.61
119	K7	40	DC	O3'-P	9.53	1.75	1.61
104	J2	27	DC	O3'-P	9.53	1.75	1.61
195	S3	11	DC	O3'-P	9.53	1.75	1.61
11	AB	769	DC	O3'-P	9.53	1.75	1.61
11	AB	889	DC	O3'-P	9.53	1.75	1.61
11	AB	1655	DC	O3'-P	9.53	1.75	1.61
11	AB	4490	DC	O3'-P	9.53	1.75	1.61
37	D1	1	DC	O3'-P	9.53	1.75	1.61
11	AB	1662	DC	O3'-P	9.53	1.75	1.61
11	AB	6105	DC	O3'-P	9.53	1.75	1.61
11	AB	7000	DC	O3'-P	9.53	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	7147	DC	O3'-P	9.53	1.75	1.61
99	I9	18	DC	O3'-P	9.53	1.75	1.61
139	M6	10	DC	O3'-P	9.53	1.75	1.61
176	Q2	11	DC	O3'-P	9.53	1.75	1.61
11	AB	118	DC	O3'-P	9.52	1.75	1.61
11	AB	5626	DC	O3'-P	9.52	1.75	1.61
51	E5	12	DC	O3'-P	9.52	1.75	1.61
119	K7	33	DC	O3'-P	9.52	1.75	1.61
187	R5	39	DC	O3'-P	9.52	1.75	1.61
214	U5	18	DC	O3'-P	9.52	1.75	1.61
220	UD	22	DC	O3'-P	9.52	1.75	1.61
11	AB	469	DC	O3'-P	9.52	1.75	1.61
11	AB	3665	DC	O3'-P	9.52	1.75	1.61
11	AB	4504	DC	O3'-P	9.52	1.75	1.61
11	AB	4668	DC	O3'-P	9.52	1.75	1.61
11	AB	6194	DC	O3'-P	9.52	1.75	1.61
74	G6	36	DC	O3'-P	9.52	1.75	1.61
104	J2	30	DC	O3'-P	9.52	1.75	1.61
109	J8	47	DC	O3'-P	9.52	1.75	1.61
11	AB	2317	DC	O3'-P	9.52	1.75	1.61
11	AB	6224	DC	O3'-P	9.52	1.75	1.61
164	OC	6	DC	O3'-P	9.52	1.75	1.61
11	AB	4673	DC	O3'-P	9.52	1.75	1.61
11	AB	5989	DC	O3'-P	9.52	1.75	1.61
11	AB	6988	DC	O3'-P	9.52	1.75	1.61
212	U2	26	DC	O3'-P	9.52	1.75	1.61
224	V7	12	DC	O3'-P	9.52	1.75	1.61
11	AB	198	DC	O3'-P	9.52	1.75	1.61
11	AB	500	DC	O3'-P	9.52	1.75	1.61
11	AB	605	DC	O3'-P	9.52	1.75	1.61
11	AB	662	DC	O3'-P	9.52	1.75	1.61
11	AB	4785	DC	O3'-P	9.52	1.75	1.61
11	AB	5075	DC	O3'-P	9.52	1.75	1.61
75	G7	15	DC	O3'-P	9.52	1.75	1.61
160	O7	31	DC	O3'-P	9.52	1.75	1.61
174	PC	8	DC	O3'-P	9.52	1.75	1.61
11	AB	3047	DC	O3'-P	9.52	1.75	1.61
11	AB	3113	DC	O3'-P	9.52	1.75	1.61
11	AB	4899	DC	O3'-P	9.52	1.75	1.61
11	AB	5631	DC	O3'-P	9.52	1.75	1.61
11	AB	5831	DC	O3'-P	9.52	1.75	1.61
13	AD	34	DC	O3'-P	9.52	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
74	G6	13	DC	O3'-P	9.52	1.75	1.61
84	H5	25	DC	O3'-P	9.52	1.75	1.61
86	H7	6	DC	O3'-P	9.52	1.75	1.61
92	I1	18	DC	O3'-P	9.52	1.75	1.61
209	TA	41	DC	O3'-P	9.52	1.75	1.61
5	A5	15	DC	O3'-P	9.51	1.75	1.61
11	AB	128	DC	O3'-P	9.51	1.75	1.61
145	MD	25	DC	O3'-P	9.51	1.75	1.61
11	AB	308	DC	O3'-P	9.51	1.75	1.61
11	AB	865	DC	O3'-P	9.51	1.75	1.61
11	AB	1743	DC	O3'-P	9.51	1.75	1.61
11	AB	2392	DC	O3'-P	9.51	1.75	1.61
11	AB	2398	DC	O3'-P	9.51	1.75	1.61
11	AB	3964	DC	O3'-P	9.51	1.75	1.61
11	AB	5146	DC	O3'-P	9.51	1.75	1.61
11	AB	6065	DC	O3'-P	9.51	1.75	1.61
11	AB	6466	DC	O3'-P	9.51	1.75	1.61
11	AB	6703	DC	O3'-P	9.51	1.75	1.61
62	F5	43	DC	O3'-P	9.51	1.75	1.61
102	ID	13	DC	O3'-P	9.51	1.75	1.61
115	K2	21	DC	O3'-P	9.51	1.75	1.61
117	K5	13	DC	O3'-P	9.51	1.75	1.61
197	S7	8	DC	O3'-P	9.51	1.75	1.61
171	P8	14	DC	O3'-P	9.51	1.75	1.61
197	S7	15	DC	O3'-P	9.51	1.75	1.61
219	UC	25	DC	O3'-P	9.51	1.75	1.61
1	A1	7	DC	O3'-P	9.51	1.75	1.61
11	AB	355	DC	O3'-P	9.51	1.75	1.61
11	AB	4569	DC	O3'-P	9.51	1.75	1.61
11	AB	2136	DC	O3'-P	9.51	1.75	1.61
11	AB	2152	DC	O3'-P	9.51	1.75	1.61
11	AB	3943	DC	O3'-P	9.51	1.75	1.61
11	AB	4159	DC	O3'-P	9.51	1.75	1.61
11	AB	4526	DC	O3'-P	9.51	1.75	1.61
11	AB	4840	DC	O3'-P	9.51	1.75	1.61
11	AB	6202	DC	O3'-P	9.51	1.75	1.61
11	AB	7013	DC	O3'-P	9.51	1.75	1.61
54	E8	29	DC	O3'-P	9.51	1.75	1.61
126	L2	29	DC	O3'-P	9.51	1.75	1.61
203	T2	11	DC	O3'-P	9.51	1.75	1.61
11	AB	5757	DC	O3'-P	9.51	1.75	1.61
19	B6	22	DC	O3'-P	9.51	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	C2	7	DC	O3'-P	9.51	1.75	1.61
32	C8	48	DC	O3'-P	9.51	1.75	1.61
11	AB	837	DC	O3'-P	9.51	1.75	1.61
11	AB	902	DC	O3'-P	9.51	1.75	1.61
11	AB	1586	DC	O3'-P	9.51	1.75	1.61
11	AB	1714	DC	O3'-P	9.51	1.75	1.61
11	AB	2230	DC	O3'-P	9.51	1.75	1.61
11	AB	4168	DC	O3'-P	9.51	1.75	1.61
11	AB	5218	DC	O3'-P	9.51	1.75	1.61
11	AB	6464	DC	O3'-P	9.51	1.75	1.61
67	FA	19	DC	O3'-P	9.51	1.75	1.61
11	AB	490	DC	O3'-P	9.51	1.75	1.61
11	AB	2879	DC	O3'-P	9.51	1.75	1.61
11	AB	5549	DC	O3'-P	9.51	1.75	1.61
11	AB	6139	DC	O3'-P	9.51	1.75	1.61
11	AB	6835	DC	O3'-P	9.51	1.75	1.61
50	E3	15	DC	O3'-P	9.51	1.75	1.61
116	K3	21	DC	O3'-P	9.51	1.75	1.61
11	AB	887	DC	O3'-P	9.51	1.75	1.61
11	AB	1475	DC	O3'-P	9.51	1.75	1.61
11	AB	1581	DC	O3'-P	9.51	1.75	1.61
11	AB	3835	DC	O3'-P	9.51	1.75	1.61
11	AB	5476	DC	O3'-P	9.51	1.75	1.61
11	AB	6866	DC	O3'-P	9.51	1.75	1.61
43	D8	27	DC	O3'-P	9.51	1.75	1.61
48	E1	9	DC	O3'-P	9.51	1.75	1.61
107	J6	27	DC	O3'-P	9.51	1.75	1.61
115	K2	29	DC	O3'-P	9.51	1.75	1.61
117	K5	48	DC	O3'-P	9.51	1.75	1.61
122	KA	31	DC	O3'-P	9.51	1.75	1.61
147	N3	10	DC	O3'-P	9.51	1.75	1.61
149	N6	47	DC	O3'-P	9.51	1.75	1.61
174	PC	12	DC	O3'-P	9.51	1.75	1.61
223	V5	11	DC	O3'-P	9.51	1.75	1.61
225	V8	26	DC	O3'-P	9.51	1.75	1.61
235	WD	8	DC	O3'-P	9.51	1.75	1.61
11	AB	263	DC	O3'-P	9.50	1.75	1.61
11	AB	370	DC	O3'-P	9.50	1.75	1.61
11	AB	6147	DC	O3'-P	9.50	1.75	1.61
11	AB	7131	DC	O3'-P	9.50	1.75	1.61
48	E1	32	DC	O3'-P	9.50	1.75	1.61
11	AB	295	DC	O3'-P	9.50	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	517	DC	O3'-P	9.50	1.75	1.61
11	AB	2329	DC	O3'-P	9.50	1.75	1.61
11	AB	3374	DC	O3'-P	9.50	1.75	1.61
11	AB	4692	DC	O3'-P	9.50	1.75	1.61
11	AB	5765	DC	O3'-P	9.50	1.75	1.61
11	AB	6392	DC	O3'-P	9.50	1.75	1.61
11	AB	6395	DC	O3'-P	9.50	1.75	1.61
65	F8	4	DC	O3'-P	9.50	1.75	1.61
200	SA	27	DC	O3'-P	9.50	1.75	1.61
11	AB	2224	DC	O3'-P	9.50	1.75	1.61
89	HA	33	DC	O3'-P	9.50	1.75	1.61
11	AB	4217	DC	O3'-P	9.50	1.75	1.61
11	AB	4382	DC	O3'-P	9.50	1.75	1.61
11	AB	4615	DC	O3'-P	9.50	1.75	1.61
11	AB	4913	DC	O3'-P	9.50	1.75	1.61
11	AB	4983	DC	O3'-P	9.50	1.75	1.61
11	AB	5759	DC	O3'-P	9.50	1.75	1.61
11	AB	6538	DC	O3'-P	9.50	1.75	1.61
165	OD	56	DC	O3'-P	9.50	1.75	1.61
227	VA	3	DC	O3'-P	9.50	1.75	1.61
232	W7	20	DC	O3'-P	9.50	1.75	1.61
78	GA	16	DC	O3'-P	9.50	1.75	1.61
89	HA	22	DC	O3'-P	9.50	1.75	1.61
149	N6	19	DC	O3'-P	9.50	1.75	1.61
1	A1	34	DC	O3'-P	9.50	1.75	1.61
10	AA	12	DC	O3'-P	9.50	1.75	1.61
11	AB	877	DC	O3'-P	9.50	1.75	1.61
11	AB	1277	DC	O3'-P	9.50	1.75	1.61
11	AB	4203	DC	O3'-P	9.50	1.75	1.61
11	AB	1230	DC	O3'-P	9.50	1.75	1.61
11	AB	1600	DC	O3'-P	9.50	1.75	1.61
11	AB	1624	DC	O3'-P	9.50	1.75	1.61
11	AB	2647	DC	O3'-P	9.50	1.75	1.61
30	C6	19	DC	O3'-P	9.50	1.75	1.61
54	E8	6	DC	O3'-P	9.50	1.75	1.61
109	J8	15	DC	O3'-P	9.50	1.75	1.61
11	AB	2881	DC	O3'-P	9.50	1.75	1.61
11	AB	5059	DC	O3'-P	9.50	1.75	1.61
11	AB	5161	DC	O3'-P	9.50	1.75	1.61
11	AB	5750	DC	O3'-P	9.50	1.75	1.61
11	AB	6827	DC	O3'-P	9.50	1.75	1.61
148	N5	14	DC	O3'-P	9.50	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	BA	24	DC	O3'-P	9.50	1.75	1.61
68	FC	18	DC	O3'-P	9.50	1.75	1.61
79	GC	25	DC	O3'-P	9.50	1.75	1.61
104	J2	32	DC	O3'-P	9.50	1.75	1.61
109	J8	3	DC	O3'-P	9.50	1.75	1.61
117	K5	23	DC	O3'-P	9.50	1.75	1.61
232	W7	25	DC	O3'-P	9.50	1.75	1.61
236	X5	7	DC	O3'-P	9.50	1.75	1.61
11	AB	3641	DC	O3'-P	9.49	1.75	1.61
11	AB	4261	DC	O3'-P	9.49	1.75	1.61
11	AB	5624	DC	O3'-P	9.49	1.75	1.61
11	AB	5678	DC	O3'-P	9.49	1.75	1.61
11	AB	5773	DC	O3'-P	9.49	1.75	1.61
11	AB	6706	DC	O3'-P	9.49	1.75	1.61
11	AB	7139	DC	O3'-P	9.49	1.75	1.61
64	F7	7	DC	O3'-P	9.49	1.75	1.61
90	HC	10	DC	O3'-P	9.49	1.75	1.61
204	T3	26	DC	O3'-P	9.49	1.75	1.61
228	VC	20	DC	O3'-P	9.49	1.75	1.61
11	AB	2275	DC	O3'-P	9.49	1.75	1.61
11	AB	3169	DC	O3'-P	9.49	1.75	1.61
11	AB	3187	DC	O3'-P	9.49	1.75	1.61
11	AB	3839	DC	O3'-P	9.49	1.75	1.61
11	AB	3919	DC	O3'-P	9.49	1.75	1.61
11	AB	4164	DC	O3'-P	9.49	1.75	1.61
11	AB	5705	DC	O3'-P	9.49	1.75	1.61
30	C6	23	DC	O3'-P	9.49	1.75	1.61
36	CD	23	DC	O3'-P	9.49	1.75	1.61
41	D6	20	DC	O3'-P	9.49	1.75	1.61
45	DA	25	DC	O3'-P	9.49	1.75	1.61
93	I2	9	DC	O3'-P	9.49	1.75	1.61
118	K6	11	DC	O3'-P	9.49	1.75	1.61
143	MA	18	DC	O3'-P	9.49	1.75	1.61
143	MA	47	DC	O3'-P	9.49	1.75	1.61
202	SD	19	DC	O3'-P	9.49	1.75	1.61
206	T7	30	DC	O3'-P	9.49	1.75	1.61
214	U5	15	DC	O3'-P	9.49	1.75	1.61
11	AB	79	DC	O3'-P	9.49	1.75	1.61
11	AB	2253	DC	O3'-P	9.49	1.75	1.61
11	AB	3968	DC	O3'-P	9.49	1.75	1.61
11	AB	4792	DC	O3'-P	9.49	1.75	1.61
178	Q5	22	DC	O3'-P	9.49	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
184	QD	15	DC	O3'-P	9.49	1.75	1.61
11	AB	4205	DC	O3'-P	9.49	1.75	1.61
11	AB	4888	DC	O3'-P	9.49	1.75	1.61
11	AB	5451	DC	O3'-P	9.49	1.75	1.61
11	AB	6602	DC	O3'-P	9.49	1.75	1.61
22	B9	43	DC	O3'-P	9.49	1.75	1.61
47	DD	11	DC	O3'-P	9.49	1.75	1.61
96	I6	15	DC	O3'-P	9.49	1.75	1.61
156	O2	2	DC	O3'-P	9.49	1.75	1.61
7	A7	37	DC	O3'-P	9.49	1.75	1.61
11	AB	2346	DC	O3'-P	9.49	1.75	1.61
11	AB	4877	DC	O3'-P	9.49	1.75	1.61
11	AB	5431	DC	O3'-P	9.49	1.75	1.61
11	AB	5985	DC	O3'-P	9.49	1.75	1.61
11	AB	6190	DC	O3'-P	9.49	1.75	1.61
11	AB	6371	DC	O3'-P	9.49	1.75	1.61
60	F2	2	DC	O3'-P	9.49	1.75	1.61
61	F3	4	DC	O3'-P	9.49	1.75	1.61
95	I5	3	DC	O3'-P	9.49	1.75	1.61
97	I7	28	DC	O3'-P	9.49	1.75	1.61
99	I9	3	DC	O3'-P	9.49	1.75	1.61
158	O5	14	DC	O3'-P	9.49	1.75	1.61
213	U3	22	DC	O3'-P	9.49	1.75	1.61
11	AB	1343	DC	O3'-P	9.48	1.75	1.61
11	AB	1485	DC	O3'-P	9.48	1.75	1.61
43	D8	10	DC	O3'-P	9.48	1.75	1.61
44	D9	1	DC	O3'-P	9.48	1.75	1.61
49	E2	2	DC	O3'-P	9.48	1.75	1.61
209	TA	34	DC	O3'-P	9.48	1.75	1.61
11	AB	1466	DC	O3'-P	9.48	1.75	1.61
11	AB	6289	DC	O3'-P	9.48	1.75	1.61
58	ED	17	DC	O3'-P	9.48	1.75	1.61
147	N3	21	DC	O3'-P	9.48	1.75	1.61
149	N6	7	DC	O3'-P	9.48	1.75	1.61
231	W5	32	DC	O3'-P	9.48	1.75	1.61
11	AB	643	DC	O3'-P	9.48	1.75	1.61
11	AB	1270	DC	O3'-P	9.48	1.75	1.61
11	AB	1833	DC	O3'-P	9.48	1.75	1.61
11	AB	2936	DC	O3'-P	9.48	1.75	1.61
11	AB	3023	DC	O3'-P	9.48	1.75	1.61
11	AB	3470	DC	O3'-P	9.48	1.75	1.61
11	AB	6005	DC	O3'-P	9.48	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
151	N8	9	DC	O3'-P	9.48	1.75	1.61
11	AB	6618	DC	O3'-P	9.48	1.75	1.61
11	AB	6876	DC	O3'-P	9.48	1.75	1.61
13	AD	18	DC	O3'-P	9.48	1.75	1.61
22	B9	38	DC	O3'-P	9.48	1.75	1.61
52	E6	24	DC	O3'-P	9.48	1.75	1.61
118	K6	16	DC	O3'-P	9.48	1.75	1.61
165	OD	44	DC	O3'-P	9.48	1.75	1.61
184	QD	2	DC	O3'-P	9.48	1.75	1.61
234	W9	10	DC	O3'-P	9.48	1.75	1.61
11	AB	612	DC	O3'-P	9.48	1.75	1.61
11	AB	636	DC	O3'-P	9.48	1.75	1.61
11	AB	1078	DC	O3'-P	9.48	1.75	1.61
11	AB	3454	DC	O3'-P	9.48	1.75	1.61
11	AB	4250	DC	O3'-P	9.48	1.75	1.61
13	AD	29	DC	O3'-P	9.48	1.75	1.61
32	C8	30	DC	O3'-P	9.48	1.75	1.61
112	JC	6	DC	O3'-P	9.48	1.75	1.61
169	P6	20	DC	O3'-P	9.48	1.75	1.61
3	A3	2	DC	O3'-P	9.48	1.75	1.61
11	AB	721	DC	O3'-P	9.48	1.75	1.61
11	AB	6113	DC	O3'-P	9.48	1.75	1.61
11	AB	6659	DC	O3'-P	9.48	1.75	1.61
11	AB	6951	DC	O3'-P	9.48	1.75	1.61
146	N2	15	DC	O3'-P	9.48	1.75	1.61
45	DA	7	DC	O3'-P	9.47	1.75	1.61
11	AB	1614	DC	O3'-P	9.47	1.75	1.61
11	AB	2658	DC	O3'-P	9.47	1.75	1.61
11	AB	2664	DC	O3'-P	9.47	1.75	1.61
11	AB	2969	DC	O3'-P	9.47	1.75	1.61
11	AB	3263	DC	O3'-P	9.47	1.75	1.61
11	AB	6025	DC	O3'-P	9.47	1.75	1.61
104	J2	37	DC	O3'-P	9.47	1.75	1.61
11	AB	237	DC	O3'-P	9.47	1.75	1.61
11	AB	4530	DC	O3'-P	9.47	1.75	1.61
11	AB	2277	DC	O3'-P	9.47	1.75	1.61
11	AB	3560	DC	O3'-P	9.47	1.75	1.61
11	AB	4108	DC	O3'-P	9.47	1.75	1.61
11	AB	5513	DC	O3'-P	9.47	1.75	1.61
11	AB	5722	DC	O3'-P	9.47	1.75	1.61
11	AB	6082	DC	O3'-P	9.47	1.75	1.61
11	AB	6381	DC	O3'-P	9.47	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	B5	6	DC	O3'-P	9.47	1.75	1.61
64	F7	17	DC	O3'-P	9.47	1.75	1.61
215	U7	7	DC	O3'-P	9.47	1.75	1.61
32	C8	40	DC	O3'-P	9.47	1.75	1.61
77	G9	1	DC	O3'-P	9.47	1.75	1.61
88	H9	5	DC	O3'-P	9.47	1.75	1.61
93	I2	13	DC	O3'-P	9.47	1.75	1.61
156	O2	23	DC	O3'-P	9.47	1.75	1.61
11	AB	848	DC	O3'-P	9.47	1.75	1.61
11	AB	2446	DC	O3'-P	9.47	1.75	1.61
11	AB	3898	DC	O3'-P	9.47	1.75	1.61
11	AB	4452	DC	O3'-P	9.47	1.75	1.61
11	AB	6742	DC	O3'-P	9.47	1.75	1.61
46	DC	18	DC	O3'-P	9.47	1.75	1.61
124	KD	14	DC	O3'-P	9.47	1.75	1.61
37	D1	26	DC	O3'-P	9.47	1.75	1.61
54	E8	35	DC	O3'-P	9.47	1.75	1.61
138	M5	2	DC	O3'-P	9.47	1.75	1.61
138	M5	4	DC	O3'-P	9.47	1.75	1.61
156	O2	5	DC	O3'-P	9.47	1.75	1.61
189	R8	19	DC	O3'-P	9.47	1.75	1.61
11	AB	677	DC	O3'-P	9.46	1.75	1.61
11	AB	3270	DC	O3'-P	9.47	1.75	1.61
11	AB	3718	DC	O3'-P	9.47	1.75	1.61
11	AB	5143	DC	O3'-P	9.47	1.75	1.61
11	AB	1856	DC	O3'-P	9.46	1.75	1.61
11	AB	6961	DC	O3'-P	9.46	1.75	1.61
11	AB	7085	DC	O3'-P	9.47	1.75	1.61
60	F2	34	DC	O3'-P	9.47	1.75	1.61
77	G9	12	DC	O3'-P	9.47	1.75	1.61
156	O2	50	DC	O3'-P	9.47	1.75	1.61
192	RC	23	DC	O3'-P	9.47	1.75	1.61
62	F5	33	DC	O3'-P	9.46	1.75	1.61
81	H1	10	DC	O3'-P	9.46	1.75	1.61
128	L5	11	DC	O3'-P	9.46	1.75	1.61
11	AB	229	DC	O3'-P	9.46	1.75	1.61
11	AB	250	DC	O3'-P	9.46	1.75	1.61
11	AB	813	DC	O3'-P	9.46	1.75	1.61
11	AB	819	DC	O3'-P	9.46	1.75	1.61
11	AB	3254	DC	O3'-P	9.46	1.75	1.61
11	AB	3462	DC	O3'-P	9.46	1.75	1.61
96	I6	18	DC	O3'-P	9.46	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
205	T5	8	DC	O3'-P	9.46	1.75	1.61
223	V5	26	DC	O3'-P	9.46	1.75	1.61
4	A4	14	DC	O3'-P	9.46	1.75	1.61
11	AB	169	DC	O3'-P	9.46	1.75	1.61
11	AB	3936	DC	O3'-P	9.46	1.75	1.61
11	AB	4391	DC	O3'-P	9.46	1.75	1.61
11	AB	4999	DC	O3'-P	9.46	1.75	1.61
11	AB	5716	DC	O3'-P	9.46	1.75	1.61
11	AB	6953	DC	O3'-P	9.46	1.75	1.61
11	AB	7239	DC	O3'-P	9.46	1.75	1.61
61	F3	21	DC	O3'-P	9.46	1.75	1.61
75	G7	3	DC	O3'-P	9.46	1.75	1.61
80	GD	5	DC	O3'-P	9.46	1.75	1.61
120	K8	21	DC	O3'-P	9.46	1.75	1.61
161	O8	30	DC	O3'-P	9.46	1.75	1.61
193	RD	5	DC	O3'-P	9.46	1.75	1.61
11	AB	4851	DC	O3'-P	9.46	1.75	1.61
43	D8	31	DC	O3'-P	9.46	1.75	1.61
44	D9	13	DC	O3'-P	9.46	1.75	1.61
47	DD	8	DC	O3'-P	9.46	1.75	1.61
87	H8	12	DC	O3'-P	9.46	1.75	1.61
99	I9	11	DC	O3'-P	9.46	1.75	1.61
190	R9	41	DC	O3'-P	9.46	1.75	1.61
11	AB	4926	DC	O3'-P	9.46	1.75	1.61
11	AB	5637	DC	O3'-P	9.46	1.75	1.61
11	AB	6506	DC	O3'-P	9.46	1.75	1.61
85	H6	18	DC	O3'-P	9.46	1.75	1.61
126	L2	19	DC	O3'-P	9.46	1.75	1.61
130	L7	25	DC	O3'-P	9.46	1.75	1.61
149	N6	32	DC	O3'-P	9.46	1.75	1.61
137	M3	30	DC	O3'-P	9.46	1.75	1.61
193	RD	8	DC	O3'-P	9.46	1.75	1.61
11	AB	241	DC	O3'-P	9.46	1.75	1.61
11	AB	3495	DC	O3'-P	9.46	1.75	1.61
11	AB	4129	DC	O3'-P	9.46	1.75	1.61
11	AB	1924	DC	O3'-P	9.45	1.75	1.61
11	AB	3608	DC	O3'-P	9.46	1.75	1.61
11	AB	4843	DC	O3'-P	9.45	1.75	1.61
11	AB	5104	DC	O3'-P	9.46	1.75	1.61
85	H6	11	DC	O3'-P	9.46	1.75	1.61
157	O3	7	DC	O3'-P	9.46	1.75	1.61
160	O7	45	DC	O3'-P	9.45	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
167	P3	35	DC	O3'-P	9.46	1.75	1.61
223	V5	38	DC	O3'-P	9.46	1.75	1.61
11	AB	1548	DC	O3'-P	9.45	1.75	1.61
11	AB	2190	DC	O3'-P	9.45	1.75	1.61
11	AB	5602	DC	O3'-P	9.45	1.75	1.61
7	A7	6	DC	O3'-P	9.45	1.75	1.61
7	A7	16	DC	O3'-P	9.45	1.75	1.61
11	AB	728	DC	O3'-P	9.45	1.75	1.61
11	AB	2613	DC	O3'-P	9.45	1.75	1.61
11	AB	3053	DC	O3'-P	9.45	1.75	1.61
11	AB	3770	DC	O3'-P	9.45	1.75	1.61
11	AB	4659	DC	O3'-P	9.45	1.75	1.61
19	B6	12	DC	O3'-P	9.45	1.75	1.61
27	C2	16	DC	O3'-P	9.45	1.75	1.61
146	N2	5	DC	O3'-P	9.45	1.75	1.61
11	AB	4379	DC	O3'-P	9.45	1.75	1.61
11	AB	4406	DC	O3'-P	9.45	1.75	1.61
11	AB	4945	DC	O3'-P	9.45	1.75	1.61
12	AC	7	DC	O3'-P	9.45	1.75	1.61
11	AB	5311	DC	O3'-P	9.45	1.75	1.61
11	AB	7209	DC	O3'-P	9.45	1.75	1.61
83	H3	38	DC	O3'-P	9.45	1.75	1.61
84	H5	31	DC	O3'-P	9.45	1.75	1.61
237	X7	17	DC	O3'-P	9.45	1.75	1.61
238	X9	22	DC	O3'-P	9.45	1.75	1.61
1	A1	11	DC	O3'-P	9.45	1.75	1.61
11	AB	1061	DC	O3'-P	9.45	1.75	1.61
11	AB	2854	DC	O3'-P	9.45	1.75	1.61
11	AB	4013	DC	O3'-P	9.45	1.75	1.61
125	L1	20	DC	O3'-P	9.45	1.75	1.61
137	M3	32	DC	O3'-P	9.45	1.75	1.61
160	O7	2	DC	O3'-P	9.45	1.75	1.61
160	O7	40	DC	O3'-P	9.45	1.75	1.61
181	Q9	17	DC	O3'-P	9.45	1.75	1.61
188	R7	23	DC	O3'-P	9.45	1.75	1.61
213	U3	25	DC	O3'-P	9.45	1.75	1.61
11	AB	2251	DC	O3'-P	9.45	1.75	1.61
11	AB	2684	DC	O3'-P	9.45	1.75	1.61
11	AB	4478	DC	O3'-P	9.45	1.75	1.61
71	G2	8	DC	O3'-P	9.45	1.75	1.61
120	K8	2	DC	O3'-P	9.45	1.75	1.61
131	L8	8	DC	O3'-P	9.45	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
142	M9	6	DC	O3'-P	9.45	1.75	1.61
149	N6	12	DC	O3'-P	9.45	1.75	1.61
194	S2	2	DC	O3'-P	9.45	1.75	1.61
1	A1	21	DC	O3'-P	9.45	1.75	1.61
11	AB	4765	DC	O3'-P	9.45	1.75	1.61
11	AB	4860	DC	O3'-P	9.45	1.75	1.61
11	AB	6661	DC	O3'-P	9.45	1.75	1.61
44	D9	4	DC	O3'-P	9.45	1.75	1.61
97	I7	22	DC	O3'-P	9.45	1.75	1.61
164	OC	17	DC	O3'-P	9.45	1.75	1.61
167	P3	19	DC	O3'-P	9.45	1.75	1.61
220	UD	13	DC	O3'-P	9.45	1.75	1.61
11	AB	4122	DC	O3'-P	9.44	1.75	1.61
18	B5	37	DC	O3'-P	9.45	1.75	1.61
94	I3	21	DC	O3'-P	9.44	1.75	1.61
103	J1	17	DC	O3'-P	9.45	1.75	1.61
107	J6	18	DC	O3'-P	9.44	1.75	1.61
163	OA	18	DC	O3'-P	9.44	1.75	1.61
11	AB	2179	DC	O3'-P	9.44	1.75	1.61
11	AB	4771	DC	O3'-P	9.44	1.75	1.61
63	F6	12	DC	O3'-P	9.44	1.75	1.61
93	I2	31	DC	O3'-P	9.44	1.75	1.61
106	J5	24	DC	O3'-P	9.44	1.75	1.61
124	KD	1	DC	O3'-P	9.44	1.75	1.61
140	M7	6	DC	O3'-P	9.44	1.75	1.61
237	X7	20	DC	O3'-P	9.44	1.75	1.61
11	AB	1400	DC	O3'-P	9.44	1.75	1.61
106	J5	2	DC	O3'-P	9.44	1.75	1.61
120	K8	15	DC	O3'-P	9.44	1.75	1.61
120	K8	17	DC	O3'-P	9.44	1.75	1.61
2	A2	5	DC	O3'-P	9.44	1.75	1.61
7	A7	31	DC	O3'-P	9.44	1.75	1.61
11	AB	3346	DC	O3'-P	9.44	1.75	1.61
11	AB	6647	DC	O3'-P	9.44	1.75	1.61
29	C5	26	DC	O3'-P	9.44	1.75	1.61
107	J6	3	DC	O3'-P	9.44	1.75	1.61
114	K1	24	DC	O3'-P	9.44	1.75	1.61
132	L9	16	DC	O3'-P	9.44	1.75	1.61
183	QC	7	DC	O3'-P	9.44	1.75	1.61
58	ED	39	DC	O3'-P	9.44	1.75	1.61
175	PD	1	DC	O3'-P	9.44	1.75	1.61
11	AB	672	DC	O3'-P	9.44	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5535	DC	O3'-P	9.44	1.75	1.61
11	AB	6726	DC	O3'-P	9.44	1.75	1.61
11	AB	7021	DC	O3'-P	9.44	1.75	1.61
15	B2	8	DC	O3'-P	9.44	1.75	1.61
36	CD	1	DC	O3'-P	9.44	1.75	1.61
199	S9	12	DC	O3'-P	9.44	1.75	1.61
108	J7	46	DC	O3'-P	9.44	1.75	1.61
11	AB	3569	DC	O3'-P	9.43	1.75	1.61
11	AB	4931	DC	O3'-P	9.43	1.75	1.61
11	AB	5137	DC	O3'-P	9.43	1.75	1.61
11	AB	6314	DC	O3'-P	9.43	1.75	1.61
94	I3	5	DC	O3'-P	9.43	1.75	1.61
146	N2	1	DC	O3'-P	9.43	1.75	1.61
122	KA	18	DC	O3'-P	9.43	1.75	1.61
130	L7	22	DC	O3'-P	9.43	1.75	1.61
234	W9	18	DC	O3'-P	9.43	1.75	1.61
237	X7	15	DC	O3'-P	9.43	1.75	1.61
11	AB	588	DC	O3'-P	9.43	1.75	1.61
11	AB	1251	DC	O3'-P	9.43	1.75	1.61
11	AB	2242	DC	O3'-P	9.43	1.75	1.61
11	AB	2764	DC	O3'-P	9.43	1.75	1.61
11	AB	2840	DC	O3'-P	9.43	1.75	1.61
11	AB	3437	DC	O3'-P	9.43	1.75	1.61
11	AB	5870	DC	O3'-P	9.43	1.75	1.61
11	AB	5926	DC	O3'-P	9.43	1.75	1.61
49	E2	13	DC	O3'-P	9.43	1.75	1.61
63	F6	21	DC	O3'-P	9.43	1.75	1.61
91	HD	20	DC	O3'-P	9.43	1.75	1.61
174	PC	24	DC	O3'-P	9.43	1.75	1.61
188	R7	20	DC	O3'-P	9.43	1.75	1.61
210	TC	27	DC	O3'-P	9.43	1.75	1.61
11	AB	3121	DC	O3'-P	9.43	1.75	1.61
11	AB	4299	DC	O3'-P	9.43	1.75	1.61
22	B9	36	DC	O3'-P	9.43	1.75	1.61
199	S9	15	DC	O3'-P	9.43	1.75	1.61
205	T5	4	DC	O3'-P	9.43	1.75	1.61
214	U5	3	DC	O3'-P	9.43	1.75	1.61
238	X9	33	DC	O3'-P	9.43	1.75	1.61
11	AB	2103	DC	O3'-P	9.43	1.75	1.61
11	AB	2997	DC	O3'-P	9.43	1.75	1.61
11	AB	6241	DC	O3'-P	9.43	1.75	1.61
11	AB	6819	DC	O3'-P	9.43	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	C5	14	DC	O3'-P	9.43	1.75	1.61
67	FA	12	DC	O3'-P	9.43	1.75	1.61
188	R7	15	DC	O3'-P	9.43	1.75	1.61
226	V9	31	DC	O3'-P	9.43	1.75	1.61
11	AB	2837	DC	O3'-P	9.42	1.75	1.61
11	AB	5220	DC	O3'-P	9.42	1.75	1.61
45	DA	16	DC	O3'-P	9.42	1.75	1.61
185	R2	16	DC	O3'-P	9.42	1.75	1.61
11	AB	3859	DC	O3'-P	9.42	1.75	1.61
11	AB	6731	DC	O3'-P	9.42	1.75	1.61
61	F3	1	DC	O3'-P	9.42	1.75	1.61
62	F5	4	DC	O3'-P	9.42	1.75	1.61
177	Q3	15	DC	O3'-P	9.42	1.75	1.61
221	V2	20	DC	O3'-P	9.42	1.75	1.61
11	AB	1319	DC	O3'-P	9.42	1.75	1.61
11	AB	3699	DC	O3'-P	9.42	1.75	1.61
11	AB	4386	DC	O3'-P	9.42	1.75	1.61
11	AB	5615	DC	O3'-P	9.42	1.75	1.61
189	R8	23	DC	O3'-P	9.42	1.75	1.61
152	N9	19	DC	O3'-P	9.42	1.75	1.61
11	AB	1367	DC	O3'-P	9.42	1.75	1.61
11	AB	4362	DC	O3'-P	9.42	1.75	1.61
11	AB	4827	DC	O3'-P	9.42	1.75	1.61
11	AB	6436	DC	O3'-P	9.42	1.75	1.61
11	AB	7232	DC	O3'-P	9.42	1.75	1.61
47	DD	20	DC	O3'-P	9.41	1.75	1.61
109	J8	18	DC	O3'-P	9.41	1.75	1.61
169	P6	14	DC	O3'-P	9.41	1.75	1.61
198	S8	14	DC	O3'-P	9.41	1.75	1.61
137	M3	8	DC	O3'-P	9.41	1.75	1.61
210	TC	8	DC	O3'-P	9.41	1.75	1.61
211	TD	11	DC	O3'-P	9.41	1.75	1.61
228	VC	13	DC	O3'-P	9.41	1.75	1.61
237	X7	13	DC	O3'-P	9.41	1.75	1.61
11	AB	5372	DC	O3'-P	9.41	1.75	1.61
195	S3	14	DC	O3'-P	9.41	1.75	1.61
182	QA	21	DC	O3'-P	9.41	1.75	1.61
11	AB	5858	DC	O3'-P	9.41	1.75	1.61
11	AB	1207	DC	O3'-P	9.40	1.75	1.61
192	RC	8	DC	O3'-P	9.40	1.75	1.61
194	S2	22	DC	O3'-P	9.40	1.75	1.61
11	AB	1730	DC	O3'-P	9.40	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4546	DC	O3'-P	9.40	1.75	1.61
103	J1	14	DC	O3'-P	9.40	1.75	1.61
11	AB	5546	DC	O3'-P	9.40	1.75	1.61
21	B8	8	DC	O3'-P	9.40	1.75	1.61
29	C5	19	DC	O3'-P	9.40	1.75	1.61
82	H2	12	DC	O3'-P	9.40	1.75	1.61
11	AB	6355	DC	O3'-P	9.40	1.75	1.61
101	IC	6	DC	O3'-P	9.40	1.75	1.61
193	RD	19	DC	O3'-P	9.39	1.75	1.61
11	AB	2744	DC	O3'-P	9.39	1.75	1.61
11	AB	5416	DC	O3'-P	9.39	1.75	1.61
79	GC	8	DC	O3'-P	9.39	1.75	1.61
11	AB	2079	DC	O3'-P	9.39	1.75	1.61
154	NC	28	DC	O3'-P	9.39	1.75	1.61
160	O7	33	DC	O3'-P	9.39	1.75	1.61
11	AB	4929	DC	O3'-P	9.39	1.75	1.61
11	AB	5106	DC	O3'-P	9.39	1.75	1.61
30	C6	29	DC	O3'-P	9.39	1.75	1.61
71	G2	20	DC	O3'-P	9.39	1.75	1.61
11	AB	5850	DC	O3'-P	9.39	1.75	1.61
60	F2	14	DC	O3'-P	9.39	1.75	1.61
135	LD	17	DC	O3'-P	9.39	1.75	1.61
13	AD	9	DC	O3'-P	9.39	1.75	1.61
52	E6	18	DC	O3'-P	9.39	1.75	1.61
105	J3	31	DC	O3'-P	9.39	1.75	1.61
11	AB	2906	DC	O3'-P	9.38	1.75	1.61
11	AB	6401	DC	O3'-P	9.38	1.75	1.61
31	C7	31	DC	O3'-P	9.38	1.75	1.61
166	P2	24	DC	O3'-P	9.38	1.75	1.61
203	T2	24	DC	O3'-P	9.38	1.75	1.61
11	AB	2580	DC	O3'-P	9.38	1.75	1.61
11	AB	4717	DC	O3'-P	9.38	1.75	1.61
75	G7	10	DC	O3'-P	9.38	1.75	1.61
139	M6	24	DC	O3'-P	9.38	1.75	1.61
11	AB	3590	DC	O3'-P	9.38	1.75	1.61
11	AB	4703	DC	O3'-P	9.38	1.75	1.61
82	H2	8	DC	O3'-P	9.38	1.75	1.61
93	I2	5	DC	O3'-P	9.38	1.75	1.61
98	I8	21	DC	O3'-P	9.38	1.75	1.61
140	M7	11	DC	O3'-P	9.38	1.75	1.61
158	O5	21	DC	O3'-P	9.38	1.75	1.61
184	QD	5	DC	O3'-P	9.38	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
175	PD	11	DC	O3'-P	9.38	1.75	1.61
194	S2	16	DC	O3'-P	9.38	1.75	1.61
205	T5	14	DC	O3'-P	9.38	1.75	1.61
11	AB	6607	DC	O3'-P	9.38	1.75	1.61
164	OC	24	DC	O3'-P	9.38	1.75	1.61
11	AB	2289	DC	O3'-P	9.38	1.75	1.61
11	AB	6091	DC	O3'-P	9.38	1.75	1.61
11	AB	7141	DC	O3'-P	9.38	1.75	1.61
48	E1	18	DC	O3'-P	9.37	1.75	1.61
11	AB	1044	DC	O3'-P	9.37	1.75	1.61
11	AB	1431	DC	O3'-P	9.37	1.75	1.61
69	FD	29	DC	O3'-P	9.37	1.75	1.61
76	G8	8	DC	O3'-P	9.37	1.75	1.61
94	I3	11	DC	O3'-P	9.37	1.75	1.61
161	O8	43	DC	O3'-P	9.37	1.75	1.61
11	AB	34	DC	O3'-P	9.37	1.75	1.61
11	AB	3110	DC	O3'-P	9.37	1.75	1.61
11	AB	4512	DC	O3'-P	9.37	1.75	1.61
11	AB	5633	DC	O3'-P	9.37	1.75	1.61
11	AB	6031	DC	O3'-P	9.37	1.75	1.61
36	CD	9	DC	O3'-P	9.37	1.75	1.61
97	I7	5	DC	O3'-P	9.37	1.75	1.61
198	S8	19	DC	O3'-P	9.37	1.75	1.61
26	C1	25	DC	O3'-P	9.37	1.75	1.61
37	D1	29	DC	O3'-P	9.37	1.75	1.61
69	FD	38	DC	O3'-P	9.37	1.75	1.61
109	J8	9	DC	O3'-P	9.37	1.75	1.61
11	AB	76	DC	O3'-P	9.37	1.75	1.61
11	AB	105	DC	O3'-P	9.37	1.75	1.61
11	AB	1899	DC	O3'-P	9.37	1.75	1.61
11	AB	2388	DC	O3'-P	9.37	1.75	1.61
11	AB	6696	DC	O3'-P	9.37	1.75	1.61
14	B1	22	DC	O3'-P	9.37	1.75	1.61
104	J2	8	DC	O3'-P	9.37	1.75	1.61
104	J2	22	DC	O3'-P	9.37	1.75	1.61
136	M2	19	DC	O3'-P	9.37	1.75	1.61
187	R5	1	DC	O3'-P	9.37	1.75	1.61
204	T3	29	DC	O3'-P	9.37	1.75	1.61
158	O5	37	DC	O3'-P	9.36	1.75	1.61
209	TA	1	DC	O3'-P	9.36	1.75	1.61
6	A6	17	DC	O3'-P	9.36	1.75	1.61
62	F5	25	DC	O3'-P	9.36	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
105	J3	23	DC	O3'-P	9.36	1.75	1.61
201	SC	1	DC	O3'-P	9.36	1.75	1.61
212	U2	11	DC	O3'-P	9.36	1.75	1.61
48	E1	30	DC	O3'-P	9.36	1.75	1.61
94	I3	14	DC	O3'-P	9.36	1.75	1.61
139	M6	2	DC	O3'-P	9.36	1.75	1.61
187	R5	34	DC	O3'-P	9.36	1.75	1.61
11	AB	6043	DC	O3'-P	9.36	1.75	1.61
98	I8	13	DC	O3'-P	9.36	1.75	1.61
20	B7	11	DC	O3'-P	9.36	1.75	1.61
108	J7	22	DC	O3'-P	9.36	1.75	1.61
237	X7	7	DC	O3'-P	9.36	1.75	1.61
11	AB	2915	DC	O3'-P	9.36	1.75	1.61
11	AB	3107	DC	O3'-P	9.36	1.75	1.61
11	AB	6299	DC	O3'-P	9.36	1.75	1.61
156	O2	46	DC	O3'-P	9.36	1.75	1.61
11	AB	6632	DC	O3'-P	9.36	1.75	1.61
11	AB	6934	DC	O3'-P	9.36	1.75	1.61
18	B5	25	DC	O3'-P	9.36	1.75	1.61
69	FD	3	DC	O3'-P	9.36	1.75	1.61
50	E3	5	DC	O3'-P	9.36	1.75	1.61
11	AB	146	DC	O3'-P	9.35	1.75	1.61
11	AB	4565	DC	O3'-P	9.35	1.75	1.61
11	AB	5246	DC	O3'-P	9.35	1.75	1.61
35	CC	32	DC	O3'-P	9.35	1.75	1.61
117	K5	8	DC	O3'-P	9.35	1.75	1.61
1	A1	45	DC	O3'-P	9.35	1.75	1.61
11	AB	325	DC	O3'-P	9.35	1.75	1.61
11	AB	4049	DC	O3'-P	9.35	1.75	1.61
11	AB	6059	DC	O3'-P	9.35	1.75	1.61
37	D1	22	DC	O3'-P	9.35	1.75	1.61
231	W5	16	DC	O3'-P	9.35	1.75	1.61
59	F1	13	DC	O3'-P	9.35	1.75	1.61
125	L1	26	DC	O3'-P	9.35	1.75	1.61
130	L7	32	DC	O3'-P	9.35	1.75	1.61
133	LA	15	DC	O3'-P	9.35	1.75	1.61
134	LC	5	DC	O3'-P	9.35	1.75	1.61
10	AA	8	DC	O3'-P	9.35	1.75	1.61
11	AB	5040	DC	O3'-P	9.35	1.75	1.61
78	GA	6	DC	O3'-P	9.35	1.75	1.61
93	I2	2	DC	O3'-P	9.35	1.75	1.61
126	L2	46	DC	O3'-P	9.35	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
183	QC	22	DC	O3'-P	9.35	1.75	1.61
223	V5	30	DC	O3'-P	9.35	1.75	1.61
11	AB	1637	DC	O3'-P	9.35	1.75	1.61
11	AB	2724	DC	O3'-P	9.35	1.75	1.61
11	AB	3077	DC	O3'-P	9.35	1.75	1.61
11	AB	4053	DC	O3'-P	9.35	1.75	1.61
11	AB	5255	DC	O3'-P	9.35	1.75	1.61
11	AB	5566	DC	O3'-P	9.35	1.75	1.61
32	C8	5	DC	O3'-P	9.35	1.75	1.61
53	E7	17	DC	O3'-P	9.35	1.75	1.61
11	AB	3085	DC	O3'-P	9.35	1.75	1.61
11	AB	5170	DC	O3'-P	9.35	1.75	1.61
11	AB	5188	DC	O3'-P	9.35	1.75	1.61
11	AB	5890	DC	O3'-P	9.35	1.75	1.61
11	AB	6690	DC	O3'-P	9.35	1.75	1.61
82	H2	48	DC	O3'-P	9.35	1.75	1.61
99	I9	22	DC	O3'-P	9.35	1.75	1.61
127	L3	2	DC	O3'-P	9.35	1.75	1.61
161	O8	34	DC	O3'-P	9.35	1.75	1.61
164	OC	20	DC	O3'-P	9.35	1.75	1.61
173	PA	11	DC	O3'-P	9.35	1.75	1.61
184	QD	23	DC	O3'-P	9.35	1.75	1.61
189	R8	29	DC	O3'-P	9.35	1.75	1.61
238	X9	44	DC	O3'-P	9.35	1.75	1.61
7	A7	23	DC	O3'-P	9.34	1.75	1.61
11	AB	549	DC	O3'-P	9.34	1.75	1.61
11	AB	758	DC	O3'-P	9.34	1.75	1.61
11	AB	3875	DC	O3'-P	9.34	1.75	1.61
11	AB	6272	DC	O3'-P	9.34	1.75	1.61
55	E9	25	DC	O3'-P	9.34	1.75	1.61
134	LC	8	DC	O3'-P	9.34	1.75	1.61
230	W3	17	DC	O3'-P	9.34	1.75	1.61
32	C8	9	DC	O3'-P	9.34	1.75	1.61
161	O8	20	DC	O3'-P	9.34	1.75	1.61
180	Q8	6	DC	O3'-P	9.34	1.75	1.61
11	AB	4044	DC	O3'-P	9.34	1.75	1.61
11	AB	5114	DC	O3'-P	9.34	1.75	1.61
153	NA	9	DC	O3'-P	9.34	1.75	1.61
217	U9	9	DC	O3'-P	9.34	1.75	1.61
1	A1	16	DC	O3'-P	9.34	1.75	1.61
11	AB	707	DC	O3'-P	9.34	1.75	1.61
11	AB	4635	DC	O3'-P	9.34	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	D2	9	DC	O3'-P	9.34	1.75	1.61
47	DD	42	DC	O3'-P	9.34	1.75	1.61
205	T5	20	DC	O3'-P	9.34	1.75	1.61
1	A1	31	DC	O3'-P	9.34	1.75	1.61
11	AB	1109	DC	O3'-P	9.34	1.75	1.61
11	AB	2563	DC	O3'-P	9.34	1.75	1.61
11	AB	3057	DC	O3'-P	9.34	1.75	1.61
11	AB	4445	DC	O3'-P	9.34	1.75	1.61
14	B1	41	DC	O3'-P	9.34	1.75	1.61
92	I1	8	DC	O3'-P	9.34	1.75	1.61
114	K1	5	DC	O3'-P	9.34	1.75	1.61
125	L1	13	DC	O3'-P	9.34	1.75	1.61
202	SD	26	DC	O3'-P	9.34	1.75	1.61
226	V9	13	DC	O3'-P	9.34	1.75	1.61
238	X9	50	DC	O3'-P	9.34	1.75	1.61
11	AB	2216	DC	O3'-P	9.34	1.75	1.61
11	AB	4497	DC	O3'-P	9.34	1.75	1.61
11	AB	6852	DC	O3'-P	9.34	1.75	1.61
58	ED	12	DC	O3'-P	9.34	1.75	1.61
82	H2	40	DC	O3'-P	9.34	1.75	1.61
100	IA	21	DC	O3'-P	9.34	1.75	1.61
126	L2	58	DC	O3'-P	9.34	1.75	1.61
149	N6	42	DC	O3'-P	9.34	1.75	1.61
179	Q7	18	DC	O3'-P	9.34	1.75	1.61
197	S7	2	DC	O3'-P	9.34	1.75	1.61
208	T9	15	DC	O3'-P	9.34	1.75	1.61
210	TC	22	DC	O3'-P	9.34	1.75	1.61
228	VC	5	DC	O3'-P	9.34	1.75	1.61
233	W8	8	DC	O3'-P	9.34	1.75	1.61
5	A5	34	DC	O3'-P	9.33	1.75	1.61
11	AB	58	DC	O3'-P	9.33	1.75	1.61
11	AB	527	DC	O3'-P	9.33	1.75	1.61
11	AB	774	DC	O3'-P	9.33	1.75	1.61
11	AB	2557	DC	O3'-P	9.33	1.75	1.61
11	AB	3415	DC	O3'-P	9.33	1.75	1.61
66	F9	12	DC	O3'-P	9.33	1.75	1.61
11	AB	3064	DC	O3'-P	9.33	1.75	1.61
11	AB	4177	DC	O3'-P	9.33	1.75	1.61
37	D1	19	DC	O3'-P	9.33	1.75	1.61
62	F5	14	DC	O3'-P	9.33	1.75	1.61
122	KA	25	DC	O3'-P	9.33	1.75	1.61
140	M7	17	DC	O3'-P	9.33	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
189	R8	38	DC	O3'-P	9.33	1.75	1.61
204	T3	41	DC	O3'-P	9.33	1.75	1.61
73	G5	5	DC	O3'-P	9.33	1.75	1.61
167	P3	30	DC	O3'-P	9.33	1.75	1.61
190	R9	30	DC	O3'-P	9.33	1.75	1.61
11	AB	994	DC	O3'-P	9.33	1.75	1.61
11	AB	3215	DC	O3'-P	9.33	1.75	1.61
11	AB	3586	DC	O3'-P	9.33	1.75	1.61
11	AB	5037	DC	O3'-P	9.33	1.75	1.61
49	E2	19	DC	O3'-P	9.33	1.75	1.61
66	F9	8	DC	O3'-P	9.33	1.75	1.61
123	KC	25	DC	O3'-P	9.33	1.75	1.61
128	L5	18	DC	O3'-P	9.33	1.75	1.61
142	M9	18	DC	O3'-P	9.33	1.75	1.61
145	MD	4	DC	O3'-P	9.33	1.75	1.61
235	WD	16	DC	O3'-P	9.33	1.75	1.61
121	K9	7	DC	O3'-P	9.33	1.75	1.61
156	O2	57	DC	O3'-P	9.33	1.75	1.61
220	UD	20	DC	O3'-P	9.33	1.75	1.61
6	A6	10	DC	O3'-P	9.33	1.75	1.61
11	AB	1185	DC	O3'-P	9.33	1.75	1.61
11	AB	2142	DC	O3'-P	9.33	1.75	1.61
11	AB	2652	DC	O3'-P	9.33	1.75	1.61
11	AB	3272	DC	O3'-P	9.33	1.75	1.61
11	AB	3807	DC	O3'-P	9.33	1.75	1.61
11	AB	4773	DC	O3'-P	9.33	1.75	1.61
147	N3	34	DC	O3'-P	9.33	1.75	1.61
18	B5	22	DC	O3'-P	9.33	1.75	1.61
21	B8	20	DC	O3'-P	9.33	1.75	1.61
56	EA	22	DC	O3'-P	9.33	1.75	1.61
87	H8	24	DC	O3'-P	9.33	1.75	1.61
95	I5	15	DC	O3'-P	9.33	1.75	1.61
114	K1	17	DC	O3'-P	9.33	1.75	1.61
138	M5	13	DC	O3'-P	9.33	1.75	1.61
152	N9	34	DC	O3'-P	9.33	1.75	1.61
192	RC	12	DC	O3'-P	9.33	1.75	1.61
168	P5	5	DC	O3'-P	9.33	1.75	1.61
196	S5	14	DC	O3'-P	9.33	1.75	1.61
196	S5	17	DC	O3'-P	9.33	1.75	1.61
216	U8	16	DC	O3'-P	9.33	1.75	1.61
11	AB	2788	DC	O3'-P	9.32	1.75	1.61
11	AB	4782	DC	O3'-P	9.32	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	D6	22	DC	O3'-P	9.32	1.75	1.61
52	E6	35	DC	O3'-P	9.32	1.75	1.61
98	I8	9	DC	O3'-P	9.32	1.75	1.61
189	R8	35	DC	O3'-P	9.32	1.75	1.61
11	AB	702	DC	O3'-P	9.32	1.75	1.61
11	AB	1426	DC	O3'-P	9.32	1.75	1.61
11	AB	6028	DC	O3'-P	9.32	1.75	1.61
11	AB	6845	DC	O3'-P	9.32	1.75	1.61
32	C8	34	DC	O3'-P	9.32	1.75	1.61
52	E6	13	DC	O3'-P	9.32	1.75	1.61
75	G7	28	DC	O3'-P	9.32	1.75	1.61
140	M7	2	DC	O3'-P	9.32	1.75	1.61
11	AB	512	DC	O3'-P	9.32	1.75	1.61
11	AB	2448	DC	O3'-P	9.32	1.75	1.61
11	AB	2746	DC	O3'-P	9.32	1.75	1.61
11	AB	3921	DC	O3'-P	9.32	1.75	1.61
11	AB	4026	DC	O3'-P	9.32	1.75	1.61
11	AB	4708	DC	O3'-P	9.32	1.75	1.61
38	D2	3	DC	O3'-P	9.32	1.75	1.61
126	L2	40	DC	O3'-P	9.32	1.75	1.61
54	E8	15	DC	O3'-P	9.32	1.75	1.61
165	OD	39	DC	O3'-P	9.32	1.75	1.61
206	T7	32	DC	O3'-P	9.32	1.75	1.61
11	AB	3750	DC	O3'-P	9.32	1.75	1.61
11	AB	4369	DC	O3'-P	9.32	1.75	1.61
11	AB	5334	DC	O3'-P	9.32	1.75	1.61
167	P3	16	DC	O3'-P	9.32	1.75	1.61
11	AB	4630	DC	O3'-P	9.32	1.75	1.61
11	AB	5960	DC	O3'-P	9.32	1.75	1.61
14	B1	5	DC	O3'-P	9.32	1.75	1.61
19	B6	1	DC	O3'-P	9.32	1.75	1.61
91	HD	11	DC	O3'-P	9.32	1.75	1.61
104	J2	5	DC	O3'-P	9.32	1.75	1.61
126	L2	43	DC	O3'-P	9.32	1.75	1.61
11	AB	1294	DC	O3'-P	9.31	1.75	1.61
11	AB	1616	DC	O3'-P	9.31	1.75	1.61
11	AB	2636	DC	O3'-P	9.31	1.75	1.61
11	AB	4910	DC	O3'-P	9.31	1.75	1.61
11	AB	5120	DC	O3'-P	9.31	1.75	1.61
11	AB	6364	DC	O3'-P	9.31	1.75	1.61
75	G7	19	DC	O3'-P	9.31	1.75	1.61
80	GD	14	DC	O3'-P	9.31	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
90	HC	17	DC	O3'-P	9.31	1.75	1.61
114	K1	1	DC	O3'-P	9.31	1.75	1.61
126	L2	5	DC	O3'-P	9.31	1.75	1.61
141	M8	9	DC	O3'-P	9.31	1.75	1.61
165	OD	1	DC	O3'-P	9.31	1.75	1.61
143	MA	24	DC	O3'-P	9.31	1.75	1.61
173	PA	29	DC	O3'-P	9.31	1.75	1.61
227	VA	17	DC	O3'-P	9.31	1.75	1.61
11	AB	1887	DC	O3'-P	9.31	1.75	1.61
11	AB	2166	DC	O3'-P	9.31	1.75	1.61
11	AB	2462	DC	O3'-P	9.31	1.75	1.61
11	AB	2730	DC	O3'-P	9.31	1.75	1.61
11	AB	3412	DC	O3'-P	9.31	1.75	1.61
11	AB	7120	DC	O3'-P	9.31	1.75	1.61
171	P8	27	DC	O3'-P	9.31	1.75	1.61
227	VA	1	DC	O3'-P	9.31	1.75	1.61
11	AB	4696	DC	O3'-P	9.31	1.75	1.61
11	AB	5427	DC	O3'-P	9.31	1.75	1.61
24	BC	16	DC	O3'-P	9.31	1.75	1.61
112	JC	10	DC	O3'-P	9.31	1.75	1.61
202	SD	23	DC	O3'-P	9.31	1.75	1.61
11	AB	2374	DC	O3'-P	9.31	1.75	1.61
11	AB	3733	DC	O3'-P	9.31	1.75	1.61
11	AB	4577	DC	O3'-P	9.31	1.75	1.61
11	AB	6040	DC	O3'-P	9.31	1.75	1.61
11	AB	6685	DC	O3'-P	9.31	1.75	1.61
23	BA	18	DC	O3'-P	9.31	1.75	1.61
11	AB	718	DC	O3'-P	9.30	1.75	1.61
11	AB	3371	DC	O3'-P	9.30	1.75	1.61
57	EC	2	DC	O3'-P	9.31	1.75	1.61
116	K3	8	DC	O3'-P	9.31	1.75	1.61
11	AB	87	DC	O3'-P	9.30	1.75	1.61
11	AB	4473	DC	O3'-P	9.30	1.75	1.61
48	E1	2	DC	O3'-P	9.30	1.75	1.61
63	F6	15	DC	O3'-P	9.30	1.75	1.61
143	MA	22	DC	O3'-P	9.30	1.75	1.61
143	MA	36	DC	O3'-P	9.30	1.75	1.61
211	TD	30	DC	O3'-P	9.30	1.75	1.61
1	A1	13	DC	O3'-P	9.30	1.75	1.61
11	AB	1646	DC	O3'-P	9.30	1.75	1.61
11	AB	45	DC	O3'-P	9.30	1.75	1.61
11	AB	275	DC	O3'-P	9.30	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	L5	21	DC	O3'-P	9.30	1.75	1.61
11	AB	3379	DC	O3'-P	9.30	1.75	1.61
11	AB	6973	DC	O3'-P	9.30	1.75	1.61
15	B2	14	DC	O3'-P	9.30	1.75	1.61
18	B5	9	DC	O3'-P	9.30	1.75	1.61
52	E6	26	DC	O3'-P	9.30	1.75	1.61
65	F8	6	DC	O3'-P	9.30	1.75	1.61
84	H5	38	DC	O3'-P	9.30	1.75	1.61
131	L8	18	DC	O3'-P	9.30	1.75	1.61
11	AB	2319	DC	O3'-P	9.30	1.75	1.61
11	AB	4584	DC	O3'-P	9.30	1.75	1.61
11	AB	5484	DC	O3'-P	9.30	1.75	1.61
11	AB	5738	DC	O3'-P	9.30	1.75	1.61
11	AB	5947	DC	O3'-P	9.30	1.75	1.61
140	M7	14	DC	O3'-P	9.30	1.75	1.61
187	R5	16	DC	O3'-P	9.30	1.75	1.61
207	T8	12	DC	O3'-P	9.30	1.75	1.61
82	H2	22	DC	O3'-P	9.30	1.75	1.61
186	R3	7	DC	O3'-P	9.30	1.75	1.61
11	AB	4199	DC	O3'-P	9.30	1.75	1.61
11	AB	1864	DC	O3'-P	9.29	1.75	1.61
11	AB	4506	DC	O3'-P	9.29	1.75	1.61
90	HC	23	DC	O3'-P	9.29	1.75	1.61
148	N5	21	DC	O3'-P	9.29	1.75	1.61
195	S3	8	DC	O3'-P	9.29	1.75	1.61
201	SC	9	DC	O3'-P	9.29	1.75	1.61
11	AB	2467	DC	O3'-P	9.29	1.75	1.61
11	AB	5902	DC	O3'-P	9.29	1.75	1.61
11	AB	2554	DC	O3'-P	9.29	1.75	1.61
11	AB	2771	DC	O3'-P	9.29	1.75	1.61
64	F7	22	DC	O3'-P	9.29	1.75	1.61
127	L3	11	DC	O3'-P	9.29	1.75	1.61
158	O5	41	DC	O3'-P	9.29	1.75	1.61
180	Q8	13	DC	O3'-P	9.29	1.75	1.61
230	W3	46	DC	O3'-P	9.29	1.75	1.61
39	D3	13	DC	O3'-P	9.29	1.75	1.61
117	K5	41	DC	O3'-P	9.29	1.75	1.61
11	AB	4988	DC	O3'-P	9.29	1.75	1.61
11	AB	6387	DC	O3'-P	9.29	1.75	1.61
161	O8	55	DC	O3'-P	9.29	1.75	1.61
11	AB	6927	DC	O3'-P	9.29	1.75	1.61
35	CC	34	DC	O3'-P	9.29	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	CD	12	DC	O3'-P	9.29	1.75	1.61
69	FD	17	DC	O3'-P	9.29	1.75	1.61
147	N3	30	DC	O3'-P	9.29	1.75	1.61
11	AB	5405	DC	O3'-P	9.28	1.75	1.61
75	G7	22	DC	O3'-P	9.28	1.75	1.61
11	AB	5480	DC	O3'-P	9.28	1.75	1.61
149	N6	39	DC	O3'-P	9.28	1.75	1.61
204	T3	9	DC	O3'-P	9.28	1.75	1.61
238	X9	14	DC	O3'-P	9.28	1.75	1.61
11	AB	4972	DC	O3'-P	9.28	1.75	1.61
47	DD	30	DC	O3'-P	9.28	1.75	1.61
145	MD	27	DC	O3'-P	9.28	1.75	1.61
11	AB	487	DC	O3'-P	9.28	1.75	1.61
145	MD	22	DC	O3'-P	9.28	1.75	1.61
234	W9	5	DC	O3'-P	9.28	1.75	1.61
11	AB	1176	DC	O3'-P	9.27	1.75	1.61
11	AB	6535	DC	O3'-P	9.27	1.75	1.61
11	AB	1790	DC	O3'-P	9.27	1.75	1.61
57	EC	4	DC	O3'-P	9.27	1.75	1.61
161	O8	38	DC	O3'-P	9.27	1.75	1.61
165	OD	20	DC	O3'-P	9.27	1.75	1.61
238	X9	12	DC	O3'-P	9.27	1.75	1.61
11	AB	3631	DC	O3'-P	9.27	1.75	1.61
11	AB	3804	DC	O3'-P	9.27	1.75	1.61
11	AB	5472	DC	O3'-P	9.27	1.75	1.61
100	IA	9	DC	O3'-P	9.27	1.75	1.61
109	J8	13	DC	O3'-P	9.27	1.75	1.61
145	MD	42	DC	O3'-P	9.27	1.75	1.61
155	ND	5	DC	O3'-P	9.27	1.75	1.61
192	RC	5	DC	O3'-P	9.27	1.75	1.61
200	SA	15	DC	O3'-P	9.27	1.75	1.61
11	AB	3081	DC	O3'-P	9.27	1.75	1.61
47	DD	39	DC	O3'-P	9.27	1.75	1.61
32	C8	23	DC	O3'-P	9.27	1.75	1.61
41	D6	13	DC	O3'-P	9.27	1.75	1.61
11	AB	5351	DC	O3'-P	9.26	1.75	1.61
11	AB	6212	DC	O3'-P	9.26	1.75	1.61
165	OD	16	DC	O3'-P	9.26	1.75	1.61
229	VD	15	DC	O3'-P	9.26	1.75	1.61
11	AB	3655	DC	O3'-P	9.26	1.75	1.61
11	AB	4442	DC	O3'-P	9.26	1.75	1.61
73	G5	20	DC	O3'-P	9.26	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
201	SC	6	DC	O3'-P	9.26	1.75	1.61
11	AB	2740	DC	O3'-P	9.25	1.75	1.61
11	AB	2551	DC	O3'-P	9.25	1.75	1.61
11	AB	4077	DC	O3'-P	9.25	1.75	1.61
156	O2	31	DC	O3'-P	9.25	1.75	1.61
11	AB	2911	DC	O3'-P	9.24	1.75	1.61
11	AB	4341	DC	O3'-P	9.24	1.75	1.61
11	AB	4775	DC	O3'-P	9.23	1.75	1.61
11	AB	3356	DC	O3'-P	9.22	1.75	1.61
11	AB	5916	DA	O3'-P	9.16	1.74	1.61
11	AB	2501	DA	O3'-P	9.15	1.74	1.61
11	AB	4576	DC	O3'-P	9.10	1.74	1.61
208	T9	5	DA	O3'-P	9.06	1.74	1.61
11	AB	1014	DA	O3'-P	9.05	1.74	1.61
11	AB	5879	DA	O3'-P	9.04	1.74	1.61
11	AB	6541	DA	O3'-P	9.04	1.74	1.61
11	AB	2368	DA	O3'-P	9.03	1.74	1.61
173	PA	15	DA	O3'-P	9.03	1.74	1.61
11	AB	4265	DA	O3'-P	9.03	1.74	1.61
11	AB	2029	DA	O3'-P	9.03	1.74	1.61
11	AB	2271	DA	O3'-P	9.03	1.74	1.61
11	AB	1990	DA	O3'-P	9.03	1.74	1.61
11	AB	3701	DA	O3'-P	9.03	1.74	1.61
11	AB	3947	DA	O3'-P	9.03	1.74	1.61
74	G6	24	DA	O3'-P	9.03	1.74	1.61
163	OA	16	DA	O3'-P	9.02	1.74	1.61
11	AB	5223	DT	O3'-P	9.02	1.74	1.61
223	V5	14	DA	O3'-P	9.02	1.74	1.61
11	AB	597	DA	O3'-P	9.02	1.74	1.61
11	AB	1842	DA	O3'-P	9.02	1.74	1.61
11	AB	3326	DA	O3'-P	9.02	1.74	1.61
11	AB	5816	DA	O3'-P	9.02	1.74	1.61
11	AB	6068	DA	O3'-P	9.02	1.74	1.61
206	T7	25	DA	O3'-P	9.02	1.74	1.61
237	X7	21	DA	O3'-P	9.02	1.74	1.61
7	A7	12	DA	O3'-P	9.01	1.74	1.61
11	AB	567	DA	O3'-P	9.01	1.74	1.61
11	AB	697	DA	O3'-P	9.01	1.74	1.61
11	AB	1805	DA	O3'-P	9.01	1.74	1.61
11	AB	2422	DA	O3'-P	9.01	1.74	1.61
53	E7	4	DA	O3'-P	9.01	1.74	1.61
146	N2	17	DA	O3'-P	9.01	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1688	DA	O3'-P	9.01	1.74	1.61
11	AB	2966	DA	O3'-P	9.01	1.74	1.61
138	M5	19	DA	O3'-P	9.01	1.74	1.61
11	AB	2804	DA	O3'-P	9.01	1.74	1.61
8	A8	19	DA	O3'-P	9.01	1.74	1.61
195	S3	27	DA	O3'-P	9.01	1.74	1.61
238	X9	8	DA	O3'-P	9.01	1.74	1.61
11	AB	403	DA	O3'-P	9.01	1.74	1.61
11	AB	809	DA	O3'-P	9.01	1.74	1.61
11	AB	1098	DA	O3'-P	9.01	1.74	1.61
11	AB	1232	DA	O3'-P	9.01	1.74	1.61
11	AB	2964	DA	O3'-P	9.01	1.74	1.61
11	AB	6560	DA	O3'-P	9.01	1.74	1.61
39	D3	24	DA	O3'-P	9.01	1.74	1.61
11	AB	7221	DT	O3'-P	9.01	1.74	1.61
221	V2	3	DA	O3'-P	9.01	1.74	1.61
11	AB	247	DA	O3'-P	9.00	1.74	1.61
11	AB	3482	DA	O3'-P	9.00	1.74	1.61
11	AB	4679	DA	O3'-P	9.00	1.74	1.61
11	AB	6342	DA	O3'-P	9.00	1.74	1.61
11	AB	6891	DA	O3'-P	9.00	1.74	1.61
81	H1	7	DA	O3'-P	9.00	1.74	1.61
170	P7	5	DA	O3'-P	9.00	1.74	1.61
206	T7	16	DA	O3'-P	9.00	1.74	1.61
217	U9	25	DA	O3'-P	9.00	1.74	1.61
11	AB	647	DA	O3'-P	9.00	1.74	1.61
85	H6	13	DA	O3'-P	9.00	1.74	1.61
149	N6	15	DA	O3'-P	9.00	1.74	1.61
173	PA	20	DA	O3'-P	9.00	1.74	1.61
208	T9	11	DA	O3'-P	9.00	1.74	1.61
13	AD	19	DA	O3'-P	9.00	1.74	1.61
112	JC	25	DA	O3'-P	9.00	1.74	1.61
142	M9	11	DA	O3'-P	9.00	1.74	1.61
11	AB	2502	DA	O3'-P	9.00	1.74	1.61
40	D5	13	DA	O3'-P	9.00	1.74	1.61
92	I1	19	DA	O3'-P	9.00	1.74	1.61
142	M9	9	DA	O3'-P	9.00	1.74	1.61
149	N6	8	DA	O3'-P	9.00	1.74	1.61
161	O8	3	DA	O3'-P	9.00	1.74	1.61
181	Q9	31	DA	O3'-P	9.00	1.74	1.61
215	U7	3	DA	O3'-P	9.00	1.74	1.61
238	X9	56	DA	O3'-P	9.00	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
226	V9	32	DA	O3'-P	8.99	1.74	1.61
11	AB	1830	DA	O3'-P	8.99	1.74	1.61
11	AB	1999	DA	O3'-P	8.99	1.74	1.61
11	AB	3131	DA	O3'-P	8.99	1.74	1.61
11	AB	3335	DA	O3'-P	8.99	1.74	1.61
11	AB	3348	DA	O3'-P	8.99	1.74	1.61
11	AB	4620	DA	O3'-P	8.99	1.74	1.61
79	GC	6	DA	O3'-P	8.99	1.74	1.61
152	N9	16	DA	O3'-P	8.99	1.74	1.61
189	R8	20	DA	O3'-P	8.99	1.74	1.61
230	W3	27	DA	O3'-P	8.99	1.74	1.61
11	AB	193	DA	O3'-P	8.99	1.74	1.61
11	AB	3134	DA	O3'-P	8.99	1.74	1.61
11	AB	3705	DA	O3'-P	8.99	1.74	1.61
11	AB	4612	DA	O3'-P	8.99	1.74	1.61
11	AB	4674	DA	O3'-P	8.99	1.74	1.61
11	AB	5305	DA	O3'-P	8.99	1.74	1.61
122	KA	19	DA	O3'-P	8.99	1.74	1.61
196	S5	1	DA	O3'-P	8.99	1.74	1.61
66	F9	20	DA	O3'-P	8.99	1.74	1.61
118	K6	5	DA	O3'-P	8.99	1.74	1.61
11	AB	655	DA	O3'-P	8.99	1.74	1.61
11	AB	1141	DA	O3'-P	8.99	1.74	1.61
11	AB	2428	DA	O3'-P	8.99	1.74	1.61
11	AB	3178	DA	O3'-P	8.99	1.74	1.61
11	AB	2270	DA	O3'-P	8.99	1.74	1.61
11	AB	2990	DA	O3'-P	8.99	1.74	1.61
11	AB	4423	DA	O3'-P	8.99	1.74	1.61
11	AB	6080	DA	O3'-P	8.99	1.74	1.61
11	AB	6428	DA	O3'-P	8.99	1.74	1.61
25	BD	21	DA	O3'-P	8.99	1.74	1.61
64	F7	3	DA	O3'-P	8.99	1.74	1.61
182	QA	26	DA	O3'-P	8.99	1.74	1.61
82	H2	15	DA	O3'-P	8.99	1.74	1.61
11	AB	733	DA	O3'-P	8.98	1.74	1.61
11	AB	2088	DA	O3'-P	8.98	1.74	1.61
225	V8	15	DA	O3'-P	8.98	1.74	1.61
11	AB	850	DA	O3'-P	8.98	1.74	1.61
11	AB	2838	DA	O3'-P	8.98	1.74	1.61
11	AB	3850	DA	O3'-P	8.98	1.74	1.61
29	C5	4	DA	O3'-P	8.98	1.74	1.61
128	L5	12	DA	O3'-P	8.98	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5157	DA	O3'-P	8.98	1.74	1.61
11	AB	5518	DA	O3'-P	8.98	1.74	1.61
198	S8	30	DA	O3'-P	8.98	1.74	1.61
233	W8	22	DA	O3'-P	8.98	1.74	1.61
11	AB	102	DA	O3'-P	8.98	1.74	1.61
11	AB	631	DA	O3'-P	8.98	1.74	1.61
11	AB	1321	DA	O3'-P	8.98	1.74	1.61
80	GD	6	DA	O3'-P	8.98	1.74	1.61
150	N7	7	DA	O3'-P	8.98	1.74	1.61
11	AB	4848	DA	O3'-P	8.98	1.74	1.61
18	B5	34	DA	O3'-P	8.98	1.74	1.61
129	L6	13	DA	O3'-P	8.98	1.74	1.61
229	VD	19	DA	O3'-P	8.98	1.74	1.61
11	AB	562	DA	O3'-P	8.98	1.74	1.61
11	AB	606	DA	O3'-P	8.98	1.74	1.61
11	AB	1956	DA	O3'-P	8.98	1.74	1.61
55	E9	8	DA	O3'-P	8.98	1.74	1.61
57	EC	19	DA	O3'-P	8.98	1.74	1.61
93	I2	32	DA	O3'-P	8.98	1.74	1.61
213	U3	23	DA	O3'-P	8.98	1.74	1.61
11	AB	1715	DA	O3'-P	8.98	1.74	1.61
11	AB	1958	DA	O3'-P	8.98	1.74	1.61
11	AB	3299	DA	O3'-P	8.98	1.74	1.61
11	AB	4272	DA	O3'-P	8.98	1.74	1.61
11	AB	4675	DA	O3'-P	8.98	1.74	1.61
11	AB	6596	DA	O3'-P	8.98	1.74	1.61
102	ID	6	DA	O3'-P	8.98	1.74	1.61
184	QD	18	DA	O3'-P	8.98	1.74	1.61
193	RD	11	DA	O3'-P	8.98	1.74	1.61
131	L8	12	DA	O3'-P	8.97	1.74	1.61
11	AB	2574	DA	O3'-P	8.97	1.74	1.61
11	AB	6578	DT	O3'-P	8.97	1.74	1.61
41	D6	30	DA	O3'-P	8.97	1.74	1.61
109	J8	19	DA	O3'-P	8.97	1.74	1.61
193	RD	9	DA	O3'-P	8.97	1.74	1.61
151	N8	12	DA	O3'-P	8.97	1.74	1.61
165	OD	46	DA	O3'-P	8.97	1.74	1.61
15	B2	11	DA	O3'-P	8.97	1.74	1.61
181	Q9	27	DA	O3'-P	8.97	1.74	1.61
11	AB	2809	DA	O3'-P	8.97	1.74	1.61
29	C5	20	DA	O3'-P	8.97	1.74	1.61
11	AB	1135	DA	O3'-P	8.97	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1312	DA	O3'-P	8.97	1.74	1.61
11	AB	1857	DA	O3'-P	8.97	1.74	1.61
11	AB	2065	DA	O3'-P	8.97	1.74	1.61
11	AB	2362	DA	O3'-P	8.97	1.74	1.61
11	AB	2495	DA	O3'-P	8.97	1.74	1.61
11	AB	2702	DA	O3'-P	8.97	1.74	1.61
11	AB	3929	DA	O3'-P	8.97	1.74	1.61
11	AB	5013	DA	O3'-P	8.97	1.74	1.61
11	AB	5374	DA	O3'-P	8.97	1.74	1.61
11	AB	6173	DA	O3'-P	8.97	1.74	1.61
11	AB	6559	DA	O3'-P	8.97	1.74	1.61
51	E5	20	DA	O3'-P	8.97	1.74	1.61
98	I8	41	DA	O3'-P	8.97	1.74	1.61
125	L1	42	DA	O3'-P	8.97	1.74	1.61
199	S9	7	DA	O3'-P	8.97	1.74	1.61
11	AB	2180	DA	O3'-P	8.97	1.74	1.61
11	AB	3179	DA	O3'-P	8.97	1.74	1.61
14	B1	13	DA	O3'-P	8.97	1.74	1.61
193	RD	6	DA	O3'-P	8.97	1.74	1.61
31	C7	10	DA	O3'-P	8.97	1.74	1.61
36	CD	21	DA	O3'-P	8.97	1.74	1.61
45	DA	5	DA	O3'-P	8.97	1.74	1.61
105	J3	5	DA	O3'-P	8.97	1.74	1.61
140	M7	4	DA	O3'-P	8.97	1.74	1.61
184	QD	30	DA	O3'-P	8.97	1.74	1.61
219	UC	34	DA	O3'-P	8.97	1.74	1.61
11	AB	371	DA	O3'-P	8.96	1.74	1.61
11	AB	568	DA	O3'-P	8.96	1.74	1.61
11	AB	1222	DA	O3'-P	8.96	1.74	1.61
11	AB	2927	DT	O3'-P	8.97	1.74	1.61
11	AB	2999	DA	O3'-P	8.96	1.74	1.61
11	AB	4010	DA	O3'-P	8.97	1.74	1.61
11	AB	5638	DA	O3'-P	8.96	1.74	1.61
11	AB	6093	DA	O3'-P	8.96	1.74	1.61
89	HA	14	DA	O3'-P	8.96	1.74	1.61
112	JC	16	DA	O3'-P	8.96	1.74	1.61
200	SA	21	DA	O3'-P	8.96	1.74	1.61
11	AB	1544	DA	O3'-P	8.96	1.74	1.61
11	AB	2677	DA	O3'-P	8.96	1.74	1.61
11	AB	3659	DA	O3'-P	8.96	1.74	1.61
11	AB	4616	DA	O3'-P	8.96	1.74	1.61
11	AB	5536	DA	O3'-P	8.96	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6482	DA	O3'-P	8.96	1.74	1.61
11	AB	6663	DA	O3'-P	8.96	1.74	1.61
11	AB	6811	DA	O3'-P	8.96	1.74	1.61
158	O5	29	DA	O3'-P	8.96	1.74	1.61
4	A4	21	DA	O3'-P	8.96	1.74	1.61
10	AA	6	DA	O3'-P	8.96	1.74	1.61
11	AB	208	DA	O3'-P	8.96	1.74	1.61
11	AB	1532	DA	O3'-P	8.96	1.74	1.61
11	AB	1840	DA	O3'-P	8.96	1.74	1.61
11	AB	2089	DT	O3'-P	8.96	1.74	1.61
11	AB	2487	DA	O3'-P	8.96	1.74	1.61
11	AB	2719	DA	O3'-P	8.96	1.74	1.61
11	AB	2980	DA	O3'-P	8.96	1.74	1.61
11	AB	3784	DA	O3'-P	8.96	1.74	1.61
11	AB	5896	DA	O3'-P	8.96	1.74	1.61
11	AB	6070	DA	O3'-P	8.96	1.74	1.61
11	AB	6084	DA	O3'-P	8.96	1.74	1.61
11	AB	6165	DA	O3'-P	8.96	1.74	1.61
105	J3	10	DA	O3'-P	8.96	1.74	1.61
213	U3	2	DA	O3'-P	8.96	1.74	1.61
88	H9	6	DA	O3'-P	8.96	1.74	1.61
123	KC	5	DA	O3'-P	8.96	1.74	1.61
155	ND	15	DA	O3'-P	8.96	1.74	1.61
211	TD	24	DA	O3'-P	8.96	1.74	1.61
219	UC	35	DA	O3'-P	8.96	1.74	1.61
225	V8	6	DA	O3'-P	8.96	1.74	1.61
235	WD	9	DA	O3'-P	8.96	1.74	1.61
5	A5	5	DA	O3'-P	8.96	1.74	1.61
11	AB	5400	DA	O3'-P	8.96	1.74	1.61
86	H7	7	DA	O3'-P	8.96	1.74	1.61
117	K5	33	DA	O3'-P	8.96	1.74	1.61
11	AB	2092	DA	O3'-P	8.96	1.74	1.61
11	AB	2468	DA	O3'-P	8.96	1.74	1.61
11	AB	3007	DA	O3'-P	8.96	1.74	1.61
11	AB	3706	DA	O3'-P	8.96	1.74	1.61
11	AB	3771	DA	O3'-P	8.96	1.74	1.61
11	AB	5811	DA	O3'-P	8.96	1.74	1.61
37	D1	6	DA	O3'-P	8.96	1.74	1.61
103	J1	15	DA	O3'-P	8.96	1.74	1.61
126	L2	14	DA	O3'-P	8.96	1.74	1.61
152	N9	39	DA	O3'-P	8.96	1.74	1.61
160	O7	17	DA	O3'-P	8.96	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
137	M3	11	DA	O3'-P	8.96	1.74	1.61
139	M6	11	DA	O3'-P	8.96	1.74	1.61
215	U7	8	DA	O3'-P	8.96	1.74	1.61
225	V8	7	DA	O3'-P	8.96	1.74	1.61
11	AB	1385	DT	O3'-P	8.96	1.74	1.61
11	AB	5579	DA	O3'-P	8.96	1.74	1.61
4	A4	15	DA	O3'-P	8.95	1.74	1.61
11	AB	644	DA	O3'-P	8.95	1.74	1.61
11	AB	1024	DA	O3'-P	8.96	1.74	1.61
11	AB	1937	DA	O3'-P	8.96	1.74	1.61
11	AB	4793	DA	O3'-P	8.96	1.74	1.61
158	O5	15	DA	O3'-P	8.96	1.74	1.61
11	AB	1728	DA	O3'-P	8.95	1.74	1.61
11	AB	3857	DA	O3'-P	8.95	1.74	1.61
11	AB	6320	DA	O3'-P	8.96	1.74	1.61
47	DD	21	DA	O3'-P	8.96	1.74	1.61
57	EC	18	DA	O3'-P	8.96	1.74	1.61
69	FD	12	DA	O3'-P	8.96	1.74	1.61
75	G7	13	DA	O3'-P	8.96	1.74	1.61
157	O3	22	DA	O3'-P	8.96	1.74	1.61
237	X7	2	DA	O3'-P	8.96	1.74	1.61
99	I9	12	DA	O3'-P	8.95	1.74	1.61
180	Q8	19	DA	O3'-P	8.95	1.74	1.61
187	R5	29	DA	O3'-P	8.95	1.74	1.61
190	R9	33	DA	O3'-P	8.96	1.74	1.61
208	T9	12	DT	O3'-P	8.95	1.74	1.61
228	VC	26	DA	O3'-P	8.95	1.74	1.61
228	VC	36	DA	O3'-P	8.96	1.74	1.61
1	A1	36	DA	O3'-P	8.95	1.74	1.61
11	AB	1156	DA	O3'-P	8.95	1.74	1.61
11	AB	7086	DA	O3'-P	8.95	1.74	1.61
5	A5	16	DA	O3'-P	8.95	1.74	1.61
11	AB	1233	DT	O3'-P	8.95	1.74	1.61
11	AB	1683	DA	O3'-P	8.95	1.74	1.61
11	AB	1700	DA	O3'-P	8.95	1.74	1.61
11	AB	2440	DA	O3'-P	8.95	1.74	1.61
11	AB	3026	DA	O3'-P	8.95	1.74	1.61
11	AB	4977	DA	O3'-P	8.95	1.74	1.61
26	C1	17	DA	O3'-P	8.95	1.74	1.61
11	AB	2499	DA	O3'-P	8.95	1.74	1.61
11	AB	3323	DA	O3'-P	8.95	1.74	1.61
11	AB	3714	DA	O3'-P	8.95	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4352	DA	O3'-P	8.95	1.74	1.61
11	AB	4380	DA	O3'-P	8.95	1.74	1.61
11	AB	5073	DA	O3'-P	8.95	1.74	1.61
11	AB	5147	DA	O3'-P	8.95	1.74	1.61
11	AB	5316	DA	O3'-P	8.95	1.74	1.61
11	AB	5688	DA	O3'-P	8.95	1.74	1.61
11	AB	5932	DA	O3'-P	8.95	1.74	1.61
11	AB	6069	DA	O3'-P	8.95	1.74	1.61
11	AB	6171	DA	O3'-P	8.95	1.74	1.61
11	AB	6507	DA	O3'-P	8.95	1.74	1.61
11	AB	6808	DT	O3'-P	8.95	1.74	1.61
15	B2	9	DA	O3'-P	8.95	1.74	1.61
36	CD	15	DA	O3'-P	8.95	1.74	1.61
50	E3	17	DA	O3'-P	8.95	1.74	1.61
114	K1	36	DA	O3'-P	8.95	1.74	1.61
142	M9	2	DA	O3'-P	8.95	1.74	1.61
156	O2	6	DA	O3'-P	8.95	1.74	1.61
211	TD	36	DA	O3'-P	8.95	1.74	1.61
214	U5	1	DA	O3'-P	8.95	1.74	1.61
230	W3	1	DA	O3'-P	8.95	1.74	1.61
33	C9	7	DA	O3'-P	8.95	1.74	1.61
62	F5	35	DA	O3'-P	8.95	1.74	1.61
112	JC	18	DA	O3'-P	8.95	1.74	1.61
112	JC	23	DA	O3'-P	8.95	1.74	1.61
125	L1	15	DA	O3'-P	8.95	1.74	1.61
125	L1	51	DA	O3'-P	8.95	1.74	1.61
170	P7	9	DA	O3'-P	8.95	1.74	1.61
182	QA	3	DA	O3'-P	8.95	1.74	1.61
217	U9	17	DA	O3'-P	8.95	1.74	1.61
230	W3	3	DA	O3'-P	8.95	1.74	1.61
230	W3	4	DA	O3'-P	8.95	1.74	1.61
11	AB	171	DA	O3'-P	8.95	1.74	1.61
11	AB	233	DA	O3'-P	8.95	1.74	1.61
11	AB	4678	DA	O3'-P	8.95	1.74	1.61
1	A1	37	DA	O3'-P	8.95	1.74	1.61
8	A8	17	DA	O3'-P	8.95	1.74	1.61
11	AB	245	DA	O3'-P	8.95	1.74	1.61
11	AB	618	DA	O3'-P	8.95	1.74	1.61
11	AB	691	DA	O3'-P	8.95	1.74	1.61
11	AB	2706	DA	O3'-P	8.95	1.74	1.61
11	AB	4300	DA	O3'-P	8.95	1.74	1.61
11	AB	6656	DA	O3'-P	8.95	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
61	F3	2	DA	O3'-P	8.95	1.74	1.61
143	MA	6	DA	O3'-P	8.95	1.74	1.61
226	V9	8	DA	O3'-P	8.95	1.74	1.61
230	W3	23	DA	O3'-P	8.95	1.74	1.61
11	AB	251	DA	O3'-P	8.95	1.74	1.61
11	AB	577	DT	O3'-P	8.95	1.74	1.61
11	AB	1308	DA	O3'-P	8.95	1.74	1.61
11	AB	1378	DA	O3'-P	8.95	1.74	1.61
11	AB	1382	DA	O3'-P	8.95	1.74	1.61
11	AB	1517	DA	O3'-P	8.95	1.74	1.61
11	AB	1568	DA	O3'-P	8.95	1.74	1.61
11	AB	4243	DT	O3'-P	8.95	1.74	1.61
11	AB	1938	DA	O3'-P	8.95	1.74	1.61
11	AB	2004	DA	O3'-P	8.95	1.74	1.61
11	AB	2285	DA	O3'-P	8.95	1.74	1.61
11	AB	2685	DA	O3'-P	8.95	1.74	1.61
11	AB	3709	DA	O3'-P	8.95	1.74	1.61
11	AB	5014	DA	O3'-P	8.95	1.74	1.61
11	AB	5456	DA	O3'-P	8.95	1.74	1.61
11	AB	5726	DA	O3'-P	8.95	1.74	1.61
11	AB	5804	DA	O3'-P	8.95	1.74	1.61
11	AB	6008	DA	O3'-P	8.95	1.74	1.61
11	AB	6489	DT	O3'-P	8.95	1.74	1.61
22	B9	1	DA	O3'-P	8.95	1.74	1.61
39	D3	21	DA	O3'-P	8.95	1.74	1.61
42	D7	11	DA	O3'-P	8.95	1.74	1.61
50	E3	18	DA	O3'-P	8.95	1.74	1.61
69	FD	11	DA	O3'-P	8.95	1.74	1.61
93	I2	10	DA	O3'-P	8.95	1.74	1.61
120	K8	22	DA	O3'-P	8.95	1.74	1.61
125	L1	18	DA	O3'-P	8.95	1.74	1.61
155	ND	16	DA	O3'-P	8.95	1.74	1.61
189	R8	4	DA	O3'-P	8.95	1.74	1.61
199	S9	13	DA	O3'-P	8.95	1.74	1.61
221	V2	21	DA	O3'-P	8.95	1.74	1.61
235	WD	10	DA	O3'-P	8.95	1.74	1.61
236	X5	24	DA	O3'-P	8.95	1.74	1.61
11	AB	1860	DA	O3'-P	8.95	1.74	1.61
7	A7	18	DA	O3'-P	8.94	1.74	1.61
10	AA	13	DA	O3'-P	8.95	1.74	1.61
11	AB	2350	DA	O3'-P	8.95	1.74	1.61
11	AB	2432	DA	O3'-P	8.95	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2922	DA	O3'-P	8.95	1.74	1.61
11	AB	3029	DA	O3'-P	8.95	1.74	1.61
11	AB	3119	DA	O3'-P	8.95	1.74	1.61
11	AB	4669	DA	O3'-P	8.95	1.74	1.61
11	AB	4803	DA	O3'-P	8.95	1.74	1.61
11	AB	5627	DA	O3'-P	8.95	1.74	1.61
11	AB	5689	DA	O3'-P	8.95	1.74	1.61
23	BA	21	DA	O3'-P	8.95	1.74	1.61
25	BD	22	DA	O3'-P	8.95	1.74	1.61
65	F8	14	DA	O3'-P	8.95	1.74	1.61
89	HA	30	DA	O3'-P	8.95	1.74	1.61
226	V9	10	DA	O3'-P	8.95	1.74	1.61
11	AB	599	DT	O3'-P	8.94	1.74	1.61
11	AB	1727	DA	O3'-P	8.94	1.74	1.61
11	AB	2699	DA	O3'-P	8.95	1.74	1.61
11	AB	2827	DA	O3'-P	8.94	1.74	1.61
11	AB	3128	DA	O3'-P	8.95	1.74	1.61
11	AB	3614	DT	O3'-P	8.95	1.74	1.61
11	AB	3785	DA	O3'-P	8.95	1.74	1.61
11	AB	4101	DT	O3'-P	8.95	1.74	1.61
156	O2	3	DA	O3'-P	8.95	1.74	1.61
229	VD	18	DA	O3'-P	8.95	1.74	1.61
11	AB	3710	DA	O3'-P	8.94	1.74	1.61
11	AB	5369	DA	O3'-P	8.94	1.74	1.61
11	AB	5442	DA	O3'-P	8.94	1.74	1.61
11	AB	5507	DA	O3'-P	8.95	1.74	1.61
11	AB	5613	DA	O3'-P	8.95	1.74	1.61
14	B1	10	DA	O3'-P	8.95	1.74	1.61
45	DA	23	DA	O3'-P	8.95	1.74	1.61
49	E2	8	DA	O3'-P	8.95	1.74	1.61
11	AB	5881	DA	O3'-P	8.94	1.74	1.61
27	C2	14	DA	O3'-P	8.95	1.74	1.61
55	E9	14	DA	O3'-P	8.95	1.74	1.61
58	ED	34	DA	O3'-P	8.95	1.74	1.61
115	K2	6	DT	O3'-P	8.95	1.74	1.61
58	ED	40	DA	O3'-P	8.95	1.74	1.61
74	G6	27	DA	O3'-P	8.95	1.74	1.61
160	O7	18	DA	O3'-P	8.95	1.74	1.61
223	V5	15	DA	O3'-P	8.95	1.74	1.61
86	H7	15	DA	O3'-P	8.94	1.74	1.61
115	K2	5	DA	O3'-P	8.95	1.74	1.61
188	R7	17	DA	O3'-P	8.95	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
200	SA	22	DA	O3'-P	8.95	1.74	1.61
210	TC	10	DA	O3'-P	8.95	1.74	1.61
211	TD	27	DA	O3'-P	8.94	1.74	1.61
222	V3	22	DA	O3'-P	8.95	1.74	1.61
224	V7	13	DA	O3'-P	8.95	1.74	1.61
230	W3	10	DA	O3'-P	8.95	1.74	1.61
237	X7	18	DA	O3'-P	8.95	1.74	1.61
3	A3	3	DA	O3'-P	8.94	1.74	1.61
11	AB	3303	DA	O3'-P	8.94	1.74	1.61
11	AB	6563	DA	O3'-P	8.94	1.74	1.61
94	I3	6	DA	O3'-P	8.94	1.74	1.61
11	AB	598	DA	O3'-P	8.94	1.74	1.61
11	AB	619	DA	O3'-P	8.94	1.74	1.61
11	AB	729	DA	O3'-P	8.94	1.74	1.61
11	AB	979	DA	O3'-P	8.94	1.74	1.61
11	AB	1236	DT	O3'-P	8.94	1.74	1.61
11	AB	1253	DA	O3'-P	8.94	1.74	1.61
11	AB	1565	DA	O3'-P	8.94	1.74	1.61
11	AB	1731	DA	O3'-P	8.94	1.74	1.61
11	AB	1987	DA	O3'-P	8.94	1.74	1.61
11	AB	3126	DA	O3'-P	8.94	1.74	1.61
11	AB	3693	DA	O3'-P	8.94	1.74	1.61
11	AB	4766	DA	O3'-P	8.94	1.74	1.61
11	AB	4802	DA	O3'-P	8.94	1.74	1.61
11	AB	5221	DA	O3'-P	8.94	1.74	1.61
11	AB	5006	DA	O3'-P	8.94	1.74	1.61
11	AB	5786	DA	O3'-P	8.94	1.74	1.61
11	AB	5807	DA	O3'-P	8.94	1.74	1.61
11	AB	5876	DA	O3'-P	8.94	1.74	1.61
11	AB	5934	DA	O3'-P	8.94	1.74	1.61
11	AB	6006	DA	O3'-P	8.94	1.74	1.61
11	AB	6236	DA	O3'-P	8.94	1.74	1.61
11	AB	6497	DA	O3'-P	8.94	1.74	1.61
11	AB	6586	DA	O3'-P	8.94	1.74	1.61
11	AB	6801	DA	O3'-P	8.94	1.74	1.61
11	AB	6944	DA	O3'-P	8.94	1.74	1.61
11	AB	7093	DA	O3'-P	8.94	1.74	1.61
21	B8	9	DA	O3'-P	8.94	1.74	1.61
42	D7	5	DT	O3'-P	8.94	1.74	1.61
191	RA	30	DA	O3'-P	8.94	1.74	1.61
44	D9	5	DA	O3'-P	8.94	1.74	1.61
62	F5	34	DA	O3'-P	8.94	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
62	F5	37	DA	O3'-P	8.94	1.74	1.61
68	FC	8	DA	O3'-P	8.94	1.74	1.61
74	G6	31	DA	O3'-P	8.94	1.74	1.61
105	J3	11	DA	O3'-P	8.94	1.74	1.61
72	G3	8	DA	O3'-P	8.94	1.74	1.61
77	G9	13	DA	O3'-P	8.94	1.74	1.61
94	I3	9	DA	O3'-P	8.94	1.74	1.61
110	J9	12	DA	O3'-P	8.94	1.74	1.61
149	N6	13	DA	O3'-P	8.94	1.74	1.61
180	Q8	17	DA	O3'-P	8.94	1.74	1.61
189	R8	3	DA	O3'-P	8.94	1.74	1.61
236	X5	14	DA	O3'-P	8.94	1.74	1.61
189	R8	5	DA	O3'-P	8.94	1.74	1.61
199	S9	1	DA	O3'-P	8.94	1.74	1.61
200	SA	19	DA	O3'-P	8.94	1.74	1.61
209	TA	7	DA	O3'-P	8.94	1.74	1.61
215	U7	5	DA	O3'-P	8.94	1.74	1.61
216	U8	8	DA	O3'-P	8.94	1.74	1.61
222	V3	1	DA	O3'-P	8.94	1.74	1.61
222	V3	3	DA	O3'-P	8.94	1.74	1.61
229	VD	9	DA	O3'-P	8.94	1.74	1.61
11	AB	393	DA	O3'-P	8.94	1.74	1.61
11	AB	1410	DA	O3'-P	8.94	1.74	1.61
11	AB	6648	DA	O3'-P	8.94	1.74	1.61
2	A2	9	DA	O3'-P	8.94	1.74	1.61
11	AB	821	DA	O3'-P	8.94	1.74	1.61
11	AB	1497	DA	O3'-P	8.94	1.74	1.61
11	AB	2003	DA	O3'-P	8.94	1.74	1.61
11	AB	2705	DA	O3'-P	8.94	1.74	1.61
11	AB	2710	DA	O3'-P	8.94	1.74	1.61
11	AB	5138	DA	O3'-P	8.94	1.74	1.61
11	AB	5785	DA	O3'-P	8.94	1.74	1.61
11	AB	2866	DA	O3'-P	8.94	1.74	1.61
11	AB	3286	DA	O3'-P	8.94	1.74	1.61
11	AB	3438	DA	O3'-P	8.94	1.74	1.61
11	AB	3692	DA	O3'-P	8.94	1.74	1.61
11	AB	3840	DA	O3'-P	8.94	1.74	1.61
11	AB	4281	DA	O3'-P	8.94	1.74	1.61
11	AB	4723	DA	O3'-P	8.94	1.74	1.61
11	AB	7042	DA	O3'-P	8.94	1.74	1.61
16	B3	7	DA	O3'-P	8.94	1.74	1.61
19	B6	6	DA	O3'-P	8.94	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	D8	43	DA	O3'-P	8.94	1.74	1.61
44	D9	15	DA	O3'-P	8.94	1.74	1.61
50	E3	16	DA	O3'-P	8.94	1.74	1.61
63	F6	7	DA	O3'-P	8.94	1.74	1.61
75	G7	16	DA	O3'-P	8.94	1.74	1.61
99	I9	4	DA	O3'-P	8.94	1.74	1.61
107	J6	29	DA	O3'-P	8.94	1.74	1.61
109	J8	31	DA	O3'-P	8.94	1.74	1.61
126	L2	30	DA	O3'-P	8.94	1.74	1.61
132	L9	17	DA	O3'-P	8.94	1.74	1.61
137	M3	10	DA	O3'-P	8.94	1.74	1.61
143	MA	7	DA	O3'-P	8.94	1.74	1.61
156	O2	36	DA	O3'-P	8.94	1.74	1.61
165	OD	24	DA	O3'-P	8.94	1.74	1.61
191	RA	16	DA	O3'-P	8.94	1.74	1.61
226	V9	26	DA	O3'-P	8.94	1.74	1.61
129	L6	18	DA	O3'-P	8.94	1.74	1.61
130	L7	27	DA	O3'-P	8.94	1.74	1.61
138	M5	25	DA	O3'-P	8.94	1.74	1.61
157	O3	3	DA	O3'-P	8.94	1.74	1.61
158	O5	17	DA	O3'-P	8.94	1.74	1.61
162	O9	12	DA	O3'-P	8.94	1.74	1.61
178	Q5	10	DA	O3'-P	8.94	1.74	1.61
211	TD	15	DA	O3'-P	8.94	1.74	1.61
206	T7	44	DA	O3'-P	8.94	1.74	1.61
222	V3	18	DA	O3'-P	8.94	1.74	1.61
224	V7	7	DT	O3'-P	8.94	1.74	1.61
11	AB	630	DA	O3'-P	8.94	1.74	1.61
11	AB	1218	DA	O3'-P	8.94	1.74	1.61
11	AB	1945	DA	O3'-P	8.94	1.74	1.61
11	AB	2114	DA	O3'-P	8.94	1.74	1.61
11	AB	2506	DA	O3'-P	8.94	1.74	1.61
11	AB	2989	DA	O3'-P	8.94	1.74	1.61
11	AB	3172	DA	O3'-P	8.94	1.74	1.61
15	B2	5	DA	O3'-P	8.94	1.74	1.61
11	AB	4721	DT	O3'-P	8.94	1.74	1.61
11	AB	5708	DA	O3'-P	8.94	1.74	1.61
11	AB	5878	DA	O3'-P	8.94	1.74	1.61
11	AB	6094	DT	O3'-P	8.94	1.74	1.61
11	AB	6311	DA	O3'-P	8.94	1.74	1.61
37	D1	13	DA	O3'-P	8.94	1.74	1.61
89	HA	26	DA	O3'-P	8.94	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
106	J5	25	DA	O3'-P	8.94	1.74	1.61
107	J6	20	DA	O3'-P	8.94	1.74	1.61
107	J6	30	DA	O3'-P	8.94	1.74	1.61
130	L7	23	DA	O3'-P	8.94	1.74	1.61
137	M3	15	DA	O3'-P	8.94	1.74	1.61
142	M9	8	DA	O3'-P	8.94	1.74	1.61
189	R8	2	DA	O3'-P	8.94	1.74	1.61
183	QC	8	DA	O3'-P	8.94	1.74	1.61
185	R2	6	DA	O3'-P	8.94	1.74	1.61
190	R9	9	DA	O3'-P	8.94	1.74	1.61
194	S2	20	DA	O3'-P	8.94	1.74	1.61
198	S8	42	DA	O3'-P	8.94	1.74	1.61
223	V5	39	DA	O3'-P	8.94	1.74	1.61
11	AB	673	DA	O3'-P	8.93	1.74	1.61
11	AB	2512	DA	O3'-P	8.93	1.74	1.61
11	AB	2848	DT	O3'-P	8.93	1.74	1.61
11	AB	2870	DA	O3'-P	8.93	1.74	1.61
3	A3	15	DA	O3'-P	8.93	1.74	1.61
10	AA	15	DA	O3'-P	8.93	1.74	1.61
11	AB	1401	DA	O3'-P	8.93	1.74	1.61
11	AB	1445	DA	O3'-P	8.93	1.74	1.61
11	AB	1582	DA	O3'-P	8.93	1.74	1.61
11	AB	2694	DA	O3'-P	8.93	1.74	1.61
11	AB	1837	DA	O3'-P	8.93	1.74	1.61
11	AB	2200	DA	O3'-P	8.93	1.74	1.61
11	AB	2701	DA	O3'-P	8.93	1.74	1.61
11	AB	2810	DT	O3'-P	8.93	1.74	1.61
11	AB	2929	DA	O3'-P	8.93	1.74	1.61
11	AB	3507	DA	O3'-P	8.93	1.74	1.61
13	AD	7	DA	O3'-P	8.93	1.74	1.61
123	KC	8	DA	O3'-P	8.93	1.74	1.61
11	AB	3613	DA	O3'-P	8.93	1.74	1.61
11	AB	3787	DA	O3'-P	8.93	1.74	1.61
11	AB	4767	DA	O3'-P	8.93	1.74	1.61
11	AB	5296	DA	O3'-P	8.93	1.74	1.61
11	AB	5712	DA	O3'-P	8.93	1.74	1.61
11	AB	6248	DA	O3'-P	8.93	1.74	1.61
11	AB	6322	DA	O3'-P	8.93	1.74	1.61
17	B4	5	DA	O3'-P	8.93	1.74	1.61
29	C5	38	DA	O3'-P	8.93	1.74	1.61
30	C6	8	DA	O3'-P	8.93	1.74	1.61
40	D5	14	DA	O3'-P	8.93	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	DD	16	DA	O3'-P	8.93	1.74	1.61
47	DD	17	DA	O3'-P	8.93	1.74	1.61
55	E9	31	DA	O3'-P	8.93	1.74	1.61
60	F2	15	DA	O3'-P	8.93	1.74	1.61
72	G3	22	DA	O3'-P	8.93	1.74	1.61
139	M6	8	DA	O3'-P	8.93	1.74	1.61
161	O8	31	DA	O3'-P	8.93	1.74	1.61
197	S7	16	DA	O3'-P	8.93	1.74	1.61
65	F8	13	DA	O3'-P	8.93	1.74	1.61
85	H6	12	DA	O3'-P	8.93	1.74	1.61
109	J8	20	DA	O3'-P	8.93	1.74	1.61
121	K9	15	DA	O3'-P	8.93	1.74	1.61
188	R7	18	DA	O3'-P	8.93	1.74	1.61
220	UD	15	DA	O3'-P	8.93	1.74	1.61
225	V8	9	DA	O3'-P	8.93	1.74	1.61
123	KC	26	DA	O3'-P	8.93	1.74	1.61
157	O3	2	DA	O3'-P	8.93	1.74	1.61
236	X5	20	DA	O3'-P	8.93	1.74	1.61
4	A4	19	DA	O3'-P	8.93	1.74	1.61
11	AB	56	DA	O3'-P	8.93	1.74	1.61
11	AB	1515	DA	O3'-P	8.93	1.74	1.61
8	A8	25	DT	O3'-P	8.93	1.74	1.61
11	AB	12	DA	O3'-P	8.93	1.74	1.61
11	AB	107	DA	O3'-P	8.93	1.74	1.61
11	AB	1709	DA	O3'-P	8.93	1.74	1.61
11	AB	2104	DA	O3'-P	8.93	1.74	1.61
11	AB	2490	DA	O3'-P	8.93	1.74	1.61
11	AB	2586	DA	O3'-P	8.93	1.74	1.61
11	AB	2795	DA	O3'-P	8.93	1.74	1.61
11	AB	2807	DT	O3'-P	8.93	1.74	1.61
11	AB	4234	DA	O3'-P	8.93	1.74	1.61
11	AB	6976	DA	O3'-P	8.93	1.74	1.61
36	CD	24	DA	O3'-P	8.93	1.74	1.61
11	AB	2841	DA	O3'-P	8.93	1.74	1.61
11	AB	2981	DA	O3'-P	8.93	1.74	1.61
11	AB	5320	DA	O3'-P	8.93	1.74	1.61
11	AB	5452	DA	O3'-P	8.93	1.74	1.61
11	AB	5539	DA	O3'-P	8.93	1.74	1.61
11	AB	6092	DA	O3'-P	8.93	1.74	1.61
11	AB	6670	DA	O3'-P	8.93	1.74	1.61
11	AB	6748	DA	O3'-P	8.93	1.74	1.61
23	BA	31	DA	O3'-P	8.93	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	E2	41	DA	O3'-P	8.93	1.74	1.61
61	F3	18	DA	O3'-P	8.93	1.74	1.61
109	J8	4	DA	O3'-P	8.93	1.74	1.61
120	K8	18	DA	O3'-P	8.93	1.74	1.61
129	L6	19	DT	O3'-P	8.93	1.74	1.61
130	L7	57	DA	O3'-P	8.93	1.74	1.61
152	N9	49	DA	O3'-P	8.93	1.74	1.61
224	V7	8	DA	O3'-P	8.93	1.74	1.61
226	V9	19	DA	O3'-P	8.93	1.74	1.61
11	AB	6012	DA	O3'-P	8.93	1.74	1.61
11	AB	6959	DA	O3'-P	8.93	1.74	1.61
11	AB	7203	DA	O3'-P	8.93	1.74	1.61
40	D5	7	DA	O3'-P	8.93	1.74	1.61
47	DD	13	DA	O3'-P	8.93	1.74	1.61
60	F2	17	DA	O3'-P	8.93	1.74	1.61
108	J7	26	DA	O3'-P	8.93	1.74	1.61
210	TC	14	DA	O3'-P	8.93	1.74	1.61
219	UC	14	DA	O3'-P	8.93	1.74	1.61
236	X5	22	DA	O3'-P	8.93	1.74	1.61
11	AB	230	DA	O3'-P	8.93	1.74	1.61
11	AB	238	DA	O3'-P	8.93	1.74	1.61
11	AB	692	DA	O3'-P	8.93	1.74	1.61
11	AB	775	DA	O3'-P	8.93	1.74	1.61
11	AB	1069	DA	O3'-P	8.93	1.74	1.61
11	AB	3279	DA	O3'-P	8.93	1.74	1.61
11	AB	4416	DA	O3'-P	8.93	1.74	1.61
11	AB	6233	DA	O3'-P	8.93	1.74	1.61
11	AB	6678	DA	O3'-P	8.93	1.74	1.61
11	AB	6867	DA	O3'-P	8.93	1.74	1.61
202	SD	17	DA	O3'-P	8.93	1.74	1.61
11	AB	1171	DA	O3'-P	8.93	1.74	1.61
11	AB	2188	DA	O3'-P	8.93	1.74	1.61
11	AB	2484	DA	O3'-P	8.93	1.74	1.61
11	AB	2576	DA	O3'-P	8.93	1.74	1.61
11	AB	2581	DA	O3'-P	8.93	1.74	1.61
11	AB	3108	DA	O3'-P	8.93	1.74	1.61
11	AB	3118	DA	O3'-P	8.93	1.74	1.61
11	AB	3189	DA	O3'-P	8.93	1.74	1.61
11	AB	3203	DA	O3'-P	8.93	1.74	1.61
11	AB	3563	DT	O3'-P	8.93	1.74	1.61
11	AB	4412	DA	O3'-P	8.93	1.74	1.61
11	AB	5292	DA	O3'-P	8.93	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
99	I9	5	DA	O3'-P	8.93	1.74	1.61
152	N9	48	DA	O3'-P	8.93	1.74	1.61
158	O5	22	DA	O3'-P	8.93	1.74	1.61
11	AB	5294	DA	O3'-P	8.93	1.74	1.61
11	AB	5515	DA	O3'-P	8.93	1.74	1.61
11	AB	5928	DA	O3'-P	8.93	1.74	1.61
11	AB	6403	DA	O3'-P	8.93	1.74	1.61
29	C5	36	DA	O3'-P	8.93	1.74	1.61
192	RC	24	DA	O3'-P	8.93	1.74	1.61
41	D6	29	DA	O3'-P	8.93	1.74	1.61
80	GD	10	DA	O3'-P	8.93	1.74	1.61
94	I3	8	DA	O3'-P	8.93	1.74	1.61
94	I3	22	DA	O3'-P	8.93	1.74	1.61
122	KA	34	DA	O3'-P	8.93	1.74	1.61
131	L8	9	DA	O3'-P	8.93	1.74	1.61
149	N6	17	DA	O3'-P	8.93	1.74	1.61
192	RC	25	DA	O3'-P	8.93	1.74	1.61
224	V7	10	DA	O3'-P	8.93	1.74	1.61
228	VC	22	DA	O3'-P	8.93	1.74	1.61
11	AB	401	DA	O3'-P	8.92	1.74	1.61
11	AB	811	DA	O3'-P	8.92	1.74	1.61
11	AB	1374	DA	O3'-P	8.92	1.74	1.61
11	AB	2068	DA	O3'-P	8.92	1.74	1.61
11	AB	1134	DA	O3'-P	8.92	1.74	1.61
11	AB	2283	DA	O3'-P	8.92	1.74	1.61
11	AB	2410	DA	O3'-P	8.92	1.74	1.61
11	AB	2600	DA	O3'-P	8.92	1.74	1.61
11	AB	2808	DA	O3'-P	8.92	1.74	1.61
11	AB	2998	DA	O3'-P	8.92	1.74	1.61
111	JA	7	DA	O3'-P	8.92	1.74	1.61
210	TC	9	DA	O3'-P	8.92	1.74	1.61
11	AB	3016	DT	O3'-P	8.92	1.74	1.61
11	AB	3025	DA	O3'-P	8.92	1.74	1.61
11	AB	3173	DA	O3'-P	8.92	1.74	1.61
11	AB	3298	DA	O3'-P	8.92	1.74	1.61
11	AB	4424	DT	O3'-P	8.92	1.74	1.61
11	AB	7212	DA	O3'-P	8.92	1.74	1.61
11	AB	4619	DA	O3'-P	8.92	1.74	1.61
11	AB	5691	DA	O3'-P	8.92	1.74	1.61
11	AB	5872	DA	O3'-P	8.92	1.74	1.61
11	AB	6643	DA	O3'-P	8.92	1.74	1.61
11	AB	7048	DT	O3'-P	8.92	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	B3	10	DA	O3'-P	8.92	1.74	1.61
27	C2	18	DA	O3'-P	8.92	1.74	1.61
84	H5	11	DA	O3'-P	8.92	1.74	1.61
32	C8	16	DA	O3'-P	8.92	1.74	1.61
40	D5	10	DA	O3'-P	8.92	1.74	1.61
58	ED	27	DT	O3'-P	8.92	1.74	1.61
67	FA	9	DA	O3'-P	8.92	1.74	1.61
67	FA	13	DA	O3'-P	8.92	1.74	1.61
88	H9	8	DA	O3'-P	8.92	1.74	1.61
95	I5	8	DA	O3'-P	8.92	1.74	1.61
108	J7	32	DA	O3'-P	8.92	1.74	1.61
115	K2	25	DA	O3'-P	8.92	1.74	1.61
116	K3	18	DA	O3'-P	8.92	1.74	1.61
119	K7	23	DA	O3'-P	8.92	1.74	1.61
123	KC	9	DA	O3'-P	8.92	1.74	1.61
146	N2	20	DA	O3'-P	8.92	1.74	1.61
165	OD	48	DA	O3'-P	8.92	1.74	1.61
209	TA	10	DA	O3'-P	8.92	1.74	1.61
142	M9	7	DA	O3'-P	8.92	1.74	1.61
154	NC	37	DA	O3'-P	8.92	1.74	1.61
155	ND	18	DA	O3'-P	8.92	1.74	1.61
157	O3	8	DA	O3'-P	8.92	1.74	1.61
165	OD	13	DA	O3'-P	8.92	1.74	1.61
166	P2	14	DT	O3'-P	8.92	1.74	1.61
170	P7	10	DA	O3'-P	8.92	1.74	1.61
196	S5	27	DA	O3'-P	8.92	1.74	1.61
219	UC	22	DA	O3'-P	8.92	1.74	1.61
220	UD	4	DA	O3'-P	8.92	1.74	1.61
223	V5	17	DA	O3'-P	8.92	1.74	1.61
1	A1	39	DA	O3'-P	8.92	1.74	1.61
11	AB	629	DA	O3'-P	8.92	1.74	1.61
11	AB	973	DA	O3'-P	8.92	1.74	1.61
11	AB	1538	DA	O3'-P	8.92	1.74	1.61
11	AB	2085	DA	O3'-P	8.92	1.74	1.61
11	AB	5921	DA	O3'-P	8.92	1.74	1.61
11	AB	6802	DT	O3'-P	8.92	1.74	1.61
145	MD	28	DA	O3'-P	8.92	1.74	1.61
11	AB	1393	DT	O3'-P	8.92	1.74	1.61
11	AB	1424	DA	O3'-P	8.92	1.74	1.61
11	AB	1969	DT	O3'-P	8.92	1.74	1.61
11	AB	2120	DA	O3'-P	8.92	1.74	1.61
11	AB	2802	DA	O3'-P	8.92	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4439	DA	O3'-P	8.92	1.74	1.61
11	AB	4377	DA	O3'-P	8.92	1.74	1.61
11	AB	5162	DA	O3'-P	8.92	1.74	1.61
11	AB	6955	DA	O3'-P	8.92	1.74	1.61
34	CA	2	DA	O3'-P	8.92	1.74	1.61
130	L7	39	DA	O3'-P	8.92	1.74	1.61
230	W3	44	DA	O3'-P	8.92	1.74	1.61
11	AB	5706	DA	O3'-P	8.92	1.74	1.61
11	AB	5723	DA	O3'-P	8.92	1.74	1.61
11	AB	5997	DT	O3'-P	8.92	1.74	1.61
12	AC	11	DA	O3'-P	8.92	1.74	1.61
40	D5	8	DA	O3'-P	8.92	1.74	1.61
58	ED	25	DA	O3'-P	8.92	1.74	1.61
68	FC	9	DT	O3'-P	8.92	1.74	1.61
107	J6	32	DA	O3'-P	8.92	1.74	1.61
114	K1	12	DA	O3'-P	8.92	1.74	1.61
181	Q9	13	DA	O3'-P	8.92	1.74	1.61
221	V2	17	DT	O3'-P	8.92	1.74	1.61
168	P5	11	DT	O3'-P	8.92	1.74	1.61
188	R7	16	DA	O3'-P	8.92	1.74	1.61
203	T2	6	DT	O3'-P	8.92	1.74	1.61
208	T9	16	DA	O3'-P	8.92	1.74	1.61
11	AB	2492	DA	O3'-P	8.92	1.74	1.61
11	AB	3024	DA	O3'-P	8.92	1.74	1.61
11	AB	3304	DT	O3'-P	8.92	1.74	1.61
55	E9	15	DA	O3'-P	8.92	1.74	1.61
152	N9	15	DA	O3'-P	8.92	1.74	1.61
223	V5	19	DA	O3'-P	8.92	1.74	1.61
11	AB	402	DA	O3'-P	8.92	1.74	1.61
11	AB	532	DA	O3'-P	8.92	1.74	1.61
11	AB	723	DA	O3'-P	8.92	1.74	1.61
11	AB	3481	DA	O3'-P	8.92	1.74	1.61
11	AB	1732	DA	O3'-P	8.92	1.74	1.61
11	AB	3061	DA	O3'-P	8.92	1.74	1.61
11	AB	3439	DT	O3'-P	8.92	1.74	1.61
11	AB	5130	DA	O3'-P	8.92	1.74	1.61
11	AB	5232	DA	O3'-P	8.92	1.74	1.61
11	AB	6814	DA	O3'-P	8.92	1.74	1.61
35	CC	8	DA	O3'-P	8.92	1.74	1.61
62	F5	5	DA	O3'-P	8.92	1.74	1.61
112	JC	17	DT	O3'-P	8.92	1.74	1.61
15	B2	10	DA	O3'-P	8.92	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
53	E7	14	DA	O3'-P	8.92	1.74	1.61
65	F8	15	DA	O3'-P	8.92	1.74	1.61
72	G3	17	DA	O3'-P	8.92	1.74	1.61
138	M5	21	DA	O3'-P	8.92	1.74	1.61
149	N6	33	DA	O3'-P	8.92	1.74	1.61
152	N9	14	DA	O3'-P	8.92	1.74	1.61
183	QC	13	DA	O3'-P	8.92	1.74	1.61
2	A2	1	DA	O3'-P	8.91	1.74	1.61
11	AB	690	DA	O3'-P	8.91	1.74	1.61
11	AB	1320	DA	O3'-P	8.91	1.74	1.61
11	AB	1549	DA	O3'-P	8.91	1.74	1.61
11	AB	2404	DA	O3'-P	8.91	1.74	1.61
11	AB	3282	DA	O3'-P	8.91	1.74	1.61
11	AB	3558	DA	O3'-P	8.91	1.74	1.61
11	AB	4418	DA	O3'-P	8.91	1.74	1.61
23	BA	13	DA	O3'-P	8.91	1.74	1.61
162	O9	11	DA	O3'-P	8.91	1.74	1.61
11	AB	1323	DA	O3'-P	8.91	1.74	1.61
11	AB	1509	DT	O3'-P	8.91	1.74	1.61
11	AB	2813	DA	O3'-P	8.91	1.74	1.61
11	AB	3137	DA	O3'-P	8.91	1.74	1.61
11	AB	4348	DT	O3'-P	8.91	1.74	1.61
11	AB	4796	DA	O3'-P	8.91	1.74	1.61
11	AB	5417	DA	O3'-P	8.91	1.74	1.61
11	AB	5315	DA	O3'-P	8.91	1.74	1.61
11	AB	5654	DA	O3'-P	8.91	1.74	1.61
11	AB	5725	DA	O3'-P	8.91	1.74	1.61
15	B2	6	DA	O3'-P	8.91	1.74	1.61
89	HA	5	DA	O3'-P	8.91	1.74	1.61
185	R2	1	DT	O3'-P	8.91	1.74	1.61
189	R8	11	DA	O3'-P	8.91	1.74	1.61
229	VD	1	DA	O3'-P	8.91	1.74	1.61
11	AB	6666	DA	O3'-P	8.91	1.74	1.61
27	C2	17	DA	O3'-P	8.91	1.74	1.61
39	D3	30	DA	O3'-P	8.91	1.74	1.61
49	E2	14	DA	O3'-P	8.91	1.74	1.61
110	J9	11	DA	O3'-P	8.91	1.74	1.61
51	E5	19	DA	O3'-P	8.91	1.74	1.61
71	G2	11	DA	O3'-P	8.91	1.74	1.61
83	H3	22	DA	O3'-P	8.91	1.74	1.61
103	J1	18	DA	O3'-P	8.91	1.74	1.61
107	J6	5	DA	O3'-P	8.91	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
108	J7	47	DA	O3'-P	8.91	1.74	1.61
109	J8	6	DA	O3'-P	8.91	1.74	1.61
123	KC	7	DA	O3'-P	8.91	1.74	1.61
130	L7	12	DA	O3'-P	8.91	1.74	1.61
160	O7	49	DA	O3'-P	8.91	1.74	1.61
177	Q3	16	DA	O3'-P	8.91	1.74	1.61
183	QC	14	DA	O3'-P	8.91	1.74	1.61
179	Q7	16	DA	O3'-P	8.91	1.74	1.61
216	U8	2	DA	O3'-P	8.91	1.74	1.61
235	WD	6	DA	O3'-P	8.91	1.74	1.61
11	AB	1219	DA	O3'-P	8.91	1.74	1.61
11	AB	258	DA	O3'-P	8.91	1.74	1.61
11	AB	615	DA	O3'-P	8.91	1.74	1.61
11	AB	2970	DA	O3'-P	8.91	1.74	1.61
11	AB	3000	DT	O3'-P	8.91	1.74	1.61
11	AB	4955	DA	O3'-P	8.91	1.74	1.61
158	O5	28	DA	O3'-P	8.91	1.74	1.61
189	R8	1	DA	O3'-P	8.91	1.74	1.61
11	AB	695	DT	O3'-P	8.91	1.74	1.61
11	AB	1870	DA	O3'-P	8.91	1.74	1.61
11	AB	1963	DA	O3'-P	8.91	1.74	1.61
11	AB	2268	DA	O3'-P	8.91	1.74	1.61
11	AB	2407	DA	O3'-P	8.91	1.74	1.61
11	AB	2546	DA	O3'-P	8.91	1.74	1.61
11	AB	2709	DA	O3'-P	8.91	1.74	1.61
11	AB	3125	DA	O3'-P	8.91	1.74	1.61
11	AB	3176	DA	O3'-P	8.91	1.74	1.61
11	AB	3708	DT	O3'-P	8.91	1.74	1.61
11	AB	3932	DA	O3'-P	8.91	1.74	1.61
173	PA	16	DT	O3'-P	8.91	1.74	1.61
11	AB	4994	DT	O3'-P	8.91	1.74	1.61
11	AB	5293	DA	O3'-P	8.91	1.74	1.61
11	AB	5314	DA	O3'-P	8.91	1.74	1.61
11	AB	5514	DA	O3'-P	8.91	1.74	1.61
11	AB	5652	DA	O3'-P	8.91	1.74	1.61
11	AB	6501	DA	O3'-P	8.91	1.74	1.61
11	AB	6739	DA	O3'-P	8.91	1.74	1.61
48	E1	19	DA	O3'-P	8.91	1.74	1.61
55	E9	7	DA	O3'-P	8.91	1.74	1.61
64	F7	26	DA	O3'-P	8.91	1.74	1.61
72	G3	6	DA	O3'-P	8.91	1.74	1.61
67	FA	23	DT	O3'-P	8.91	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
70	G1	12	DA	O3'-P	8.91	1.74	1.61
89	HA	9	DA	O3'-P	8.91	1.74	1.61
103	J1	19	DA	O3'-P	8.91	1.74	1.61
124	KD	12	DA	O3'-P	8.91	1.74	1.61
125	L1	16	DA	O3'-P	8.91	1.74	1.61
132	L9	7	DA	O3'-P	8.91	1.74	1.61
147	N3	8	DA	O3'-P	8.91	1.74	1.61
158	O5	33	DA	O3'-P	8.91	1.74	1.61
184	QD	17	DA	O3'-P	8.91	1.74	1.61
208	T9	7	DA	O3'-P	8.91	1.74	1.61
210	TC	17	DA	O3'-P	8.91	1.74	1.61
212	U2	14	DA	O3'-P	8.91	1.74	1.61
220	UD	14	DA	O3'-P	8.91	1.74	1.61
11	AB	400	DA	O3'-P	8.91	1.74	1.61
11	AB	653	DT	O3'-P	8.91	1.74	1.61
11	AB	814	DA	O3'-P	8.91	1.74	1.61
11	AB	1822	DT	O3'-P	8.91	1.74	1.61
11	AB	2220	DA	O3'-P	8.91	1.74	1.61
11	AB	2419	DT	O3'-P	8.91	1.74	1.61
11	AB	3005	DT	O3'-P	8.91	1.74	1.61
11	AB	5385	DT	O3'-P	8.91	1.74	1.61
11	AB	1952	DT	O3'-P	8.91	1.74	1.61
11	AB	2201	DT	O3'-P	8.91	1.74	1.61
11	AB	2505	DT	O3'-P	8.91	1.74	1.61
11	AB	3083	DA	O3'-P	8.91	1.74	1.61
11	AB	4536	DT	O3'-P	8.91	1.74	1.61
11	AB	6483	DT	O3'-P	8.91	1.74	1.61
119	K7	36	DA	O3'-P	8.91	1.74	1.61
11	AB	5312	DA	O3'-P	8.91	1.74	1.61
11	AB	5692	DA	O3'-P	8.91	1.74	1.61
29	C5	21	DA	O3'-P	8.91	1.74	1.61
165	OD	45	DA	O3'-P	8.91	1.74	1.61
87	H8	6	DT	O3'-P	8.91	1.74	1.61
101	IC	11	DA	O3'-P	8.91	1.74	1.61
109	J8	16	DA	O3'-P	8.91	1.74	1.61
112	JC	24	DA	O3'-P	8.91	1.74	1.61
122	KA	16	DA	O3'-P	8.91	1.74	1.61
138	M5	41	DA	O3'-P	8.91	1.74	1.61
160	O7	51	DT	O3'-P	8.91	1.74	1.61
161	O8	1	DA	O3'-P	8.91	1.74	1.61
138	M5	17	DA	O3'-P	8.91	1.74	1.61
198	S8	39	DA	O3'-P	8.91	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	820	DA	O3'-P	8.90	1.74	1.61
11	AB	965	DT	O3'-P	8.90	1.74	1.61
11	AB	1221	DA	O3'-P	8.90	1.74	1.61
11	AB	1231	DA	O3'-P	8.90	1.74	1.61
11	AB	1529	DA	O3'-P	8.90	1.74	1.61
11	AB	1986	DA	O3'-P	8.90	1.74	1.61
11	AB	2504	DA	O3'-P	8.90	1.74	1.61
11	AB	2598	DA	O3'-P	8.90	1.74	1.61
11	AB	2601	DA	O3'-P	8.90	1.74	1.61
11	AB	2700	DA	O3'-P	8.90	1.74	1.61
11	AB	2796	DA	O3'-P	8.90	1.74	1.61
11	AB	3532	DA	O3'-P	8.90	1.74	1.61
11	AB	5373	DA	O3'-P	8.90	1.74	1.61
11	AB	6404	DA	O3'-P	8.90	1.74	1.61
11	AB	2849	DT	O3'-P	8.90	1.74	1.61
11	AB	3102	DA	O3'-P	8.90	1.74	1.61
11	AB	3573	DA	O3'-P	8.90	1.74	1.61
11	AB	3574	DA	O3'-P	8.90	1.74	1.61
11	AB	3670	DA	O3'-P	8.90	1.74	1.61
11	AB	3783	DT	O3'-P	8.90	1.74	1.61
11	AB	4432	DA	O3'-P	8.90	1.74	1.61
11	AB	4521	DA	O3'-P	8.90	1.74	1.61
11	AB	4939	DT	O3'-P	8.90	1.74	1.61
11	AB	5117	DA	O3'-P	8.90	1.74	1.61
11	AB	5226	DA	O3'-P	8.90	1.74	1.61
11	AB	5295	DA	O3'-P	8.90	1.74	1.61
11	AB	5516	DA	O3'-P	8.90	1.74	1.61
11	AB	5920	DA	O3'-P	8.90	1.74	1.61
11	AB	6096	DA	O3'-P	8.90	1.74	1.61
11	AB	6160	DA	O3'-P	8.90	1.74	1.61
11	AB	6402	DA	O3'-P	8.90	1.74	1.61
11	AB	6798	DA	O3'-P	8.90	1.74	1.61
13	AD	20	DT	O3'-P	8.90	1.74	1.61
44	D9	14	DA	O3'-P	8.90	1.74	1.61
53	E7	8	DA	O3'-P	8.90	1.74	1.61
91	HD	6	DA	O3'-P	8.90	1.74	1.61
92	I1	6	DA	O3'-P	8.90	1.74	1.61
93	I2	16	DA	O3'-P	8.90	1.74	1.61
107	J6	16	DA	O3'-P	8.90	1.74	1.61
107	J6	19	DA	O3'-P	8.90	1.74	1.61
124	KD	11	DA	O3'-P	8.90	1.74	1.61
126	L2	52	DA	O3'-P	8.90	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
130	L7	26	DA	O3'-P	8.90	1.74	1.61
160	O7	38	DA	O3'-P	8.90	1.74	1.61
175	PD	22	DA	O3'-P	8.90	1.74	1.61
207	T8	5	DA	O3'-P	8.90	1.74	1.61
163	OA	5	DA	O3'-P	8.90	1.74	1.61
165	OD	12	DA	O3'-P	8.90	1.74	1.61
172	P9	9	DA	O3'-P	8.90	1.74	1.61
184	QD	16	DA	O3'-P	8.90	1.74	1.61
185	R2	21	DA	O3'-P	8.90	1.74	1.61
198	S8	15	DA	O3'-P	8.90	1.74	1.61
206	T7	43	DA	O3'-P	8.90	1.74	1.61
202	SD	27	DA	O3'-P	8.90	1.74	1.61
221	V2	25	DA	O3'-P	8.90	1.74	1.61
238	X9	57	DA	O3'-P	8.90	1.74	1.61
3	A3	5	DA	O3'-P	8.90	1.74	1.61
11	AB	724	DA	O3'-P	8.90	1.74	1.61
11	AB	1358	DA	O3'-P	8.90	1.74	1.61
11	AB	2191	DA	O3'-P	8.90	1.74	1.61
11	AB	2566	DA	O3'-P	8.90	1.74	1.61
11	AB	2599	DA	O3'-P	8.90	1.74	1.61
11	AB	3931	DA	O3'-P	8.90	1.74	1.61
11	AB	4738	DA	O3'-P	8.90	1.74	1.61
11	AB	6045	DA	O3'-P	8.90	1.74	1.61
11	AB	6083	DA	O3'-P	8.90	1.74	1.61
130	L7	44	DA	O3'-P	8.90	1.74	1.61
137	M3	20	DA	O3'-P	8.90	1.74	1.61
11	AB	181	DT	O3'-P	8.90	1.74	1.61
11	AB	217	DA	O3'-P	8.90	1.74	1.61
11	AB	561	DA	O3'-P	8.90	1.74	1.61
11	AB	1712	DT	O3'-P	8.90	1.74	1.61
11	AB	1947	DA	O3'-P	8.90	1.74	1.61
11	AB	2507	DT	O3'-P	8.90	1.74	1.61
11	AB	5873	DA	O3'-P	8.90	1.74	1.61
80	GD	9	DA	O3'-P	8.90	1.74	1.61
206	T7	27	DA	O3'-P	8.90	1.74	1.61
35	CC	13	DT	O3'-P	8.90	1.74	1.61
42	D7	2	DA	O3'-P	8.90	1.74	1.61
62	F5	21	DT	O3'-P	8.90	1.74	1.61
129	L6	17	DA	O3'-P	8.90	1.74	1.61
177	Q3	10	DT	O3'-P	8.90	1.74	1.61
203	T2	8	DT	O3'-P	8.90	1.74	1.61
238	X9	18	DA	O3'-P	8.90	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A2	8	DA	O3'-P	8.90	1.74	1.61
2	A2	19	DA	O3'-P	8.90	1.74	1.61
4	A4	31	DA	O3'-P	8.90	1.74	1.61
11	AB	755	DA	O3'-P	8.90	1.74	1.61
11	AB	793	DA	O3'-P	8.90	1.74	1.61
11	AB	1110	DA	O3'-P	8.90	1.74	1.61
11	AB	1331	DA	O3'-P	8.90	1.74	1.61
11	AB	1605	DA	O3'-P	8.90	1.74	1.61
11	AB	1699	DA	O3'-P	8.90	1.74	1.61
11	AB	1736	DA	O3'-P	8.90	1.74	1.61
11	AB	1762	DA	O3'-P	8.90	1.74	1.61
11	AB	2197	DT	O3'-P	8.90	1.74	1.61
11	AB	2755	DA	O3'-P	8.90	1.74	1.61
11	AB	2830	DT	O3'-P	8.90	1.74	1.61
11	AB	3089	DA	O3'-P	8.90	1.74	1.61
11	AB	3354	DT	O3'-P	8.90	1.74	1.61
11	AB	3400	DA	O3'-P	8.90	1.74	1.61
11	AB	5264	DA	O3'-P	8.90	1.74	1.61
11	AB	5285	DA	O3'-P	8.90	1.74	1.61
11	AB	5286	DT	O3'-P	8.90	1.74	1.61
11	AB	5307	DT	O3'-P	8.90	1.74	1.61
11	AB	5729	DT	O3'-P	8.90	1.74	1.61
11	AB	6032	DA	O3'-P	8.90	1.74	1.61
11	AB	6332	DA	O3'-P	8.90	1.74	1.61
11	AB	7087	DT	O3'-P	8.90	1.74	1.61
30	C6	38	DA	O3'-P	8.90	1.74	1.61
36	CD	16	DT	O3'-P	8.90	1.74	1.61
44	D9	2	DA	O3'-P	8.90	1.74	1.61
51	E5	18	DA	O3'-P	8.90	1.74	1.61
69	FD	22	DT	O3'-P	8.90	1.74	1.61
76	G8	16	DT	O3'-P	8.90	1.74	1.61
86	H7	9	DT	O3'-P	8.90	1.74	1.61
101	IC	15	DA	O3'-P	8.90	1.74	1.61
203	T2	7	DT	O3'-P	8.90	1.74	1.61
221	V2	22	DT	O3'-P	8.90	1.74	1.61
1	A1	8	DA	O3'-P	8.90	1.74	1.61
11	AB	94	DA	O3'-P	8.90	1.74	1.61
11	AB	1179	DA	O3'-P	8.90	1.74	1.61
11	AB	1360	DA	O3'-P	8.90	1.74	1.61
11	AB	1841	DA	O3'-P	8.90	1.74	1.61
11	AB	2308	DA	O3'-P	8.90	1.74	1.61
11	AB	2458	DA	O3'-P	8.90	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3658	DA	O3'-P	8.90	1.74	1.61
11	AB	4120	DT	O3'-P	8.90	1.74	1.61
11	AB	4852	DA	O3'-P	8.90	1.74	1.61
11	AB	5236	DA	O3'-P	8.90	1.74	1.61
11	AB	5622	DT	O3'-P	8.90	1.74	1.61
11	AB	6256	DA	O3'-P	8.90	1.74	1.61
11	AB	6481	DA	O3'-P	8.90	1.74	1.61
11	AB	6640	DA	O3'-P	8.90	1.74	1.61
11	AB	6641	DA	O3'-P	8.90	1.74	1.61
11	AB	6662	DA	O3'-P	8.90	1.74	1.61
11	AB	6698	DA	O3'-P	8.90	1.74	1.61
11	AB	6803	DT	O3'-P	8.90	1.74	1.61
11	AB	6957	DT	O3'-P	8.90	1.74	1.61
31	C7	11	DT	O3'-P	8.90	1.74	1.61
134	LC	14	DA	O3'-P	8.90	1.74	1.61
149	N6	4	DT	O3'-P	8.90	1.74	1.61
54	E8	19	DT	O3'-P	8.90	1.74	1.61
74	G6	26	DA	O3'-P	8.90	1.74	1.61
81	H1	17	DA	O3'-P	8.90	1.74	1.61
81	H1	20	DA	O3'-P	8.90	1.74	1.61
87	H8	16	DT	O3'-P	8.90	1.74	1.61
94	I3	12	DA	O3'-P	8.90	1.74	1.61
98	I8	10	DA	O3'-P	8.90	1.74	1.61
129	L6	26	DA	O3'-P	8.90	1.74	1.61
130	L7	40	DA	O3'-P	8.90	1.74	1.61
132	L9	18	DT	O3'-P	8.90	1.74	1.61
136	M2	20	DA	O3'-P	8.90	1.74	1.61
138	M5	8	DA	O3'-P	8.90	1.74	1.61
141	M8	10	DA	O3'-P	8.90	1.74	1.61
166	P2	7	DT	O3'-P	8.90	1.74	1.61
171	P8	25	DA	O3'-P	8.90	1.74	1.61
190	R9	42	DA	O3'-P	8.90	1.74	1.61
213	U3	17	DT	O3'-P	8.90	1.74	1.61
216	U8	9	DT	O3'-P	8.90	1.74	1.61
224	V7	9	DA	O3'-P	8.90	1.74	1.61
226	V9	6	DA	O3'-P	8.90	1.74	1.61
7	A7	9	DA	O3'-P	8.89	1.74	1.61
11	AB	301	DA	O3'-P	8.89	1.74	1.61
11	AB	1062	DA	O3'-P	8.89	1.74	1.61
11	AB	3934	DA	O3'-P	8.89	1.74	1.61
11	AB	23	DA	O3'-P	8.89	1.74	1.61
11	AB	244	DA	O3'-P	8.89	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	492	DA	O3'-P	8.89	1.74	1.61
11	AB	1301	DA	O3'-P	8.89	1.74	1.61
11	AB	2871	DT	O3'-P	8.89	1.74	1.61
11	AB	2978	DT	O3'-P	8.89	1.74	1.61
11	AB	3504	DT	O3'-P	8.89	1.74	1.61
11	AB	3845	DA	O3'-P	8.89	1.74	1.61
11	AB	5274	DA	O3'-P	8.89	1.74	1.61
11	AB	5540	DA	O3'-P	8.89	1.74	1.61
11	AB	6247	DA	O3'-P	8.89	1.74	1.61
11	AB	6868	DA	O3'-P	8.89	1.74	1.61
11	AB	6014	DA	O3'-P	8.89	1.74	1.61
11	AB	6597	DT	O3'-P	8.89	1.74	1.61
11	AB	7026	DA	O3'-P	8.89	1.74	1.61
75	G7	17	DA	O3'-P	8.89	1.74	1.61
87	H8	8	DA	O3'-P	8.89	1.74	1.61
103	J1	10	DA	O3'-P	8.89	1.74	1.61
144	MC	15	DT	O3'-P	8.89	1.74	1.61
156	O2	24	DA	O3'-P	8.89	1.74	1.61
173	PA	5	DA	O3'-P	8.89	1.74	1.61
89	HA	8	DA	O3'-P	8.89	1.74	1.61
118	K6	7	DT	O3'-P	8.89	1.74	1.61
174	PC	21	DT	O3'-P	8.89	1.74	1.61
185	R2	22	DT	O3'-P	8.89	1.74	1.61
185	R2	23	DA	O3'-P	8.89	1.74	1.61
190	R9	35	DA	O3'-P	8.89	1.74	1.61
214	U5	34	DA	O3'-P	8.89	1.74	1.61
223	V5	18	DA	O3'-P	8.89	1.74	1.61
11	AB	1204	DA	O3'-P	8.89	1.74	1.61
1	A1	24	DA	O3'-P	8.89	1.74	1.61
6	A6	18	DA	O3'-P	8.89	1.74	1.61
10	AA	14	DA	O3'-P	8.89	1.74	1.61
11	AB	797	DA	O3'-P	8.89	1.74	1.61
11	AB	849	DA	O3'-P	8.89	1.74	1.61
11	AB	1102	DA	O3'-P	8.89	1.74	1.61
11	AB	1234	DA	O3'-P	8.89	1.74	1.61
11	AB	1427	DA	O3'-P	8.89	1.74	1.61
11	AB	1876	DA	O3'-P	8.89	1.74	1.61
11	AB	2284	DA	O3'-P	8.89	1.74	1.61
11	AB	2494	DT	O3'-P	8.89	1.74	1.61
11	AB	2689	DA	O3'-P	8.89	1.74	1.61
11	AB	2864	DA	O3'-P	8.89	1.74	1.61
11	AB	3245	DT	O3'-P	8.89	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3009	DT	O3'-P	8.89	1.74	1.61
11	AB	3799	DA	O3'-P	8.89	1.74	1.61
11	AB	4285	DT	O3'-P	8.89	1.74	1.61
11	AB	4308	DA	O3'-P	8.89	1.74	1.61
62	F5	27	DA	O3'-P	8.89	1.74	1.61
11	AB	4425	DT	O3'-P	8.89	1.74	1.61
11	AB	4528	DA	O3'-P	8.89	1.74	1.61
11	AB	5172	DA	O3'-P	8.89	1.74	1.61
11	AB	5871	DA	O3'-P	8.89	1.74	1.61
11	AB	5927	DA	O3'-P	8.89	1.74	1.61
11	AB	6175	DT	O3'-P	8.89	1.74	1.61
11	AB	6235	DA	O3'-P	8.89	1.74	1.61
11	AB	6319	DA	O3'-P	8.89	1.74	1.61
11	AB	6589	DA	O3'-P	8.89	1.74	1.61
11	AB	6650	DA	O3'-P	8.89	1.74	1.61
11	AB	7223	DA	O3'-P	8.89	1.74	1.61
14	B1	11	DT	O3'-P	8.89	1.74	1.61
25	BD	19	DA	O3'-P	8.89	1.74	1.61
69	FD	23	DA	O3'-P	8.89	1.74	1.61
74	G6	18	DA	O3'-P	8.89	1.74	1.61
91	HD	8	DA	O3'-P	8.89	1.74	1.61
98	I8	22	DA	O3'-P	8.89	1.74	1.61
105	J3	6	DT	O3'-P	8.89	1.74	1.61
165	OD	17	DA	O3'-P	8.89	1.74	1.61
167	P3	5	DA	O3'-P	8.89	1.74	1.61
105	J3	12	DT	O3'-P	8.89	1.74	1.61
105	J3	19	DT	O3'-P	8.89	1.74	1.61
108	J7	2	DA	O3'-P	8.89	1.74	1.61
130	L7	53	DA	O3'-P	8.89	1.74	1.61
131	L8	15	DA	O3'-P	8.89	1.74	1.61
188	R7	21	DA	O3'-P	8.89	1.74	1.61
190	R9	36	DT	O3'-P	8.89	1.74	1.61
196	S5	26	DA	O3'-P	8.89	1.74	1.61
200	SA	18	DT	O3'-P	8.89	1.74	1.61
210	TC	28	DA	O3'-P	8.89	1.74	1.61
216	U8	3	DA	O3'-P	8.89	1.74	1.61
226	V9	2	DA	O3'-P	8.89	1.74	1.61
7	A7	26	DA	O3'-P	8.89	1.74	1.61
11	AB	214	DT	O3'-P	8.89	1.74	1.61
11	AB	508	DA	O3'-P	8.89	1.74	1.61
11	AB	616	DA	O3'-P	8.89	1.74	1.61
11	AB	1023	DA	O3'-P	8.89	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1224	DT	O3'-P	8.89	1.74	1.61
78	GA	17	DA	O3'-P	8.89	1.74	1.61
124	KD	2	DA	O3'-P	8.89	1.74	1.61
11	AB	232	DA	O3'-P	8.89	1.74	1.61
11	AB	1005	DA	O3'-P	8.89	1.74	1.61
11	AB	1300	DA	O3'-P	8.89	1.74	1.61
11	AB	1384	DT	O3'-P	8.89	1.74	1.61
11	AB	1398	DA	O3'-P	8.89	1.74	1.61
11	AB	1827	DA	O3'-P	8.89	1.74	1.61
11	AB	1991	DT	O3'-P	8.89	1.74	1.61
11	AB	2834	DT	O3'-P	8.89	1.74	1.61
11	AB	3188	DA	O3'-P	8.89	1.74	1.61
11	AB	3435	DT	O3'-P	8.89	1.74	1.61
11	AB	4824	DA	O3'-P	8.89	1.74	1.61
11	AB	6638	DT	O3'-P	8.89	1.74	1.61
11	AB	2500	DA	O3'-P	8.89	1.74	1.61
11	AB	2514	DA	O3'-P	8.89	1.74	1.61
11	AB	3758	DT	O3'-P	8.89	1.74	1.61
11	AB	4273	DT	O3'-P	8.89	1.74	1.61
11	AB	5449	DT	O3'-P	8.89	1.74	1.61
11	AB	5607	DT	O3'-P	8.89	1.74	1.61
11	AB	5810	DT	O3'-P	8.89	1.74	1.61
11	AB	6183	DT	O3'-P	8.89	1.74	1.61
11	AB	6264	DT	O3'-P	8.89	1.74	1.61
36	CD	20	DT	O3'-P	8.89	1.74	1.61
119	K7	5	DA	O3'-P	8.89	1.74	1.61
193	RD	12	DT	O3'-P	8.89	1.74	1.61
11	AB	6416	DA	O3'-P	8.89	1.74	1.61
47	DD	23	DA	O3'-P	8.89	1.74	1.61
76	G8	21	DA	O3'-P	8.89	1.74	1.61
78	GA	14	DA	O3'-P	8.89	1.74	1.61
83	H3	34	DA	O3'-P	8.89	1.74	1.61
94	I3	34	DA	O3'-P	8.89	1.74	1.61
95	I5	9	DA	O3'-P	8.89	1.74	1.61
99	I9	8	DT	O3'-P	8.89	1.74	1.61
122	KA	29	DT	O3'-P	8.89	1.74	1.61
124	KD	20	DA	O3'-P	8.89	1.74	1.61
145	MD	36	DA	O3'-P	8.89	1.74	1.61
183	QC	12	DA	O3'-P	8.89	1.74	1.61
184	QD	9	DA	O3'-P	8.89	1.74	1.61
198	S8	25	DT	O3'-P	8.89	1.74	1.61
208	T9	6	DT	O3'-P	8.89	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
215	U7	15	DT	O3'-P	8.89	1.74	1.61
236	X5	23	DT	O3'-P	8.89	1.74	1.61
222	V3	14	DA	O3'-P	8.89	1.74	1.61
223	V5	16	DA	O3'-P	8.89	1.74	1.61
238	X9	16	DA	O3'-P	8.89	1.74	1.61
11	AB	5	DA	O3'-P	8.89	1.74	1.61
11	AB	218	DA	O3'-P	8.89	1.74	1.61
11	AB	502	DA	O3'-P	8.88	1.74	1.61
11	AB	1235	DT	O3'-P	8.89	1.74	1.61
11	AB	1326	DA	O3'-P	8.89	1.74	1.61
11	AB	1839	DA	O3'-P	8.89	1.74	1.61
11	AB	2358	DA	O3'-P	8.89	1.74	1.61
11	AB	2375	DA	O3'-P	8.89	1.74	1.61
11	AB	2491	DA	O3'-P	8.89	1.74	1.61
11	AB	2564	DA	O3'-P	8.89	1.74	1.61
181	Q9	12	DA	O3'-P	8.89	1.74	1.61
11	AB	1472	DT	O3'-P	8.88	1.74	1.61
11	AB	2785	DA	O3'-P	8.88	1.74	1.61
11	AB	2859	DA	O3'-P	8.88	1.74	1.61
11	AB	2860	DA	O3'-P	8.88	1.74	1.61
11	AB	3479	DT	O3'-P	8.89	1.74	1.61
11	AB	7094	DT	O3'-P	8.89	1.74	1.61
190	R9	6	DT	O3'-P	8.89	1.74	1.61
11	AB	2993	DT	O3'-P	8.88	1.74	1.61
11	AB	3623	DT	O3'-P	8.88	1.74	1.61
11	AB	3707	DA	O3'-P	8.88	1.74	1.61
11	AB	3724	DA	O3'-P	8.88	1.74	1.61
11	AB	4032	DA	O3'-P	8.88	1.74	1.61
11	AB	5297	DA	O3'-P	8.88	1.74	1.61
11	AB	5419	DA	O3'-P	8.88	1.74	1.61
11	AB	5675	DA	O3'-P	8.88	1.74	1.61
11	AB	5951	DA	O3'-P	8.88	1.74	1.61
11	AB	6257	DT	O3'-P	8.88	1.74	1.61
11	AB	6316	DA	O3'-P	8.88	1.74	1.61
11	AB	6424	DT	O3'-P	8.88	1.74	1.61
11	AB	6452	DA	O3'-P	8.88	1.74	1.61
11	AB	6669	DA	O3'-P	8.89	1.74	1.61
11	AB	6747	DA	O3'-P	8.89	1.74	1.61
11	AB	6516	DA	O3'-P	8.88	1.74	1.61
11	AB	6778	DA	O3'-P	8.88	1.74	1.61
30	C6	9	DA	O3'-P	8.89	1.74	1.61
135	LD	15	DA	O3'-P	8.89	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
207	T8	26	DA	O3'-P	8.89	1.74	1.61
233	W8	24	DA	O3'-P	8.89	1.74	1.61
24	BC	36	DA	O3'-P	8.88	1.74	1.61
25	BD	11	DA	O3'-P	8.88	1.74	1.61
32	C8	11	DT	O3'-P	8.88	1.74	1.61
40	D5	20	DA	O3'-P	8.88	1.74	1.61
87	H8	13	DA	O3'-P	8.89	1.74	1.61
109	J8	30	DA	O3'-P	8.88	1.74	1.61
119	K7	19	DT	O3'-P	8.88	1.74	1.61
127	L3	12	DA	O3'-P	8.88	1.74	1.61
144	MC	22	DT	O3'-P	8.88	1.74	1.61
145	MD	2	DA	O3'-P	8.88	1.74	1.61
157	O3	21	DA	O3'-P	8.88	1.74	1.61
158	O5	43	DA	O3'-P	8.88	1.74	1.61
165	OD	23	DA	O3'-P	8.88	1.74	1.61
171	P8	20	DA	O3'-P	8.89	1.74	1.61
184	QD	28	DA	O3'-P	8.88	1.74	1.61
185	R2	2	DT	O3'-P	8.89	1.74	1.61
190	R9	20	DT	O3'-P	8.89	1.74	1.61
207	T8	25	DA	O3'-P	8.88	1.74	1.61
210	TC	25	DA	O3'-P	8.88	1.74	1.61
222	V3	13	DA	O3'-P	8.89	1.74	1.61
1	A1	35	DA	O3'-P	8.88	1.74	1.61
9	A9	13	DA	O3'-P	8.88	1.74	1.61
11	AB	2150	DA	O3'-P	8.88	1.74	1.61
11	AB	4262	DA	O3'-P	8.88	1.74	1.61
11	AB	5968	DA	O3'-P	8.88	1.74	1.61
11	AB	6600	DT	O3'-P	8.88	1.74	1.61
200	SA	17	DT	O3'-P	8.88	1.74	1.61
10	AA	24	DA	O3'-P	8.88	1.74	1.61
11	AB	231	DA	O3'-P	8.88	1.74	1.61
11	AB	740	DT	O3'-P	8.88	1.74	1.61
11	AB	808	DA	O3'-P	8.88	1.74	1.61
11	AB	1215	DA	O3'-P	8.88	1.74	1.61
11	AB	1569	DT	O3'-P	8.88	1.74	1.61
11	AB	1858	DA	O3'-P	8.88	1.74	1.61
11	AB	2380	DA	O3'-P	8.88	1.74	1.61
11	AB	2749	DA	O3'-P	8.88	1.74	1.61
11	AB	2988	DA	O3'-P	8.88	1.74	1.61
11	AB	3030	DT	O3'-P	8.88	1.74	1.61
11	AB	3127	DT	O3'-P	8.88	1.74	1.61
11	AB	3171	DA	O3'-P	8.88	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3267	DA	O3'-P	8.88	1.74	1.61
11	AB	3422	DA	O3'-P	8.88	1.74	1.61
11	AB	3761	DT	O3'-P	8.88	1.74	1.61
11	AB	4403	DA	O3'-P	8.88	1.74	1.61
11	AB	5088	DA	O3'-P	8.88	1.74	1.61
11	AB	5912	DA	O3'-P	8.88	1.74	1.61
11	AB	6097	DA	O3'-P	8.88	1.74	1.61
11	AB	6946	DT	O3'-P	8.88	1.74	1.61
54	E8	10	DA	O3'-P	8.88	1.74	1.61
130	L7	58	DA	O3'-P	8.88	1.74	1.61
161	O8	2	DA	O3'-P	8.88	1.74	1.61
180	Q8	8	DA	O3'-P	8.88	1.74	1.61
191	RA	17	DT	O3'-P	8.88	1.74	1.61
11	AB	1784	DA	O3'-P	8.88	1.74	1.61
11	AB	2070	DA	O3'-P	8.88	1.74	1.61
11	AB	2115	DT	O3'-P	8.88	1.74	1.61
11	AB	2671	DA	O3'-P	8.88	1.74	1.61
11	AB	2680	DT	O3'-P	8.88	1.74	1.61
11	AB	3192	DT	O3'-P	8.88	1.74	1.61
11	AB	4137	DT	O3'-P	8.88	1.74	1.61
11	AB	4677	DT	O3'-P	8.88	1.74	1.61
11	AB	5544	DA	O3'-P	8.88	1.74	1.61
11	AB	5669	DA	O3'-P	8.88	1.74	1.61
24	BC	37	DA	O3'-P	8.88	1.74	1.61
64	F7	1	DA	O3'-P	8.88	1.74	1.61
65	F8	7	DA	O3'-P	8.88	1.74	1.61
82	H2	49	DA	O3'-P	8.88	1.74	1.61
224	V7	17	DA	O3'-P	8.88	1.74	1.61
11	AB	4873	DT	O3'-P	8.88	1.74	1.61
11	AB	5428	DA	O3'-P	8.88	1.74	1.61
11	AB	6010	DT	O3'-P	8.88	1.74	1.61
11	AB	6894	DA	O3'-P	8.88	1.74	1.61
11	AB	6895	DT	O3'-P	8.88	1.74	1.61
11	AB	6928	DA	O3'-P	8.88	1.74	1.61
22	B9	18	DT	O3'-P	8.88	1.74	1.61
31	C7	9	DA	O3'-P	8.88	1.74	1.61
39	D3	22	DT	O3'-P	8.88	1.74	1.61
49	E2	10	DA	O3'-P	8.88	1.74	1.61
86	H7	17	DT	O3'-P	8.88	1.74	1.61
157	O3	15	DA	O3'-P	8.88	1.74	1.61
165	OD	9	DA	O3'-P	8.88	1.74	1.61
170	P7	21	DA	O3'-P	8.88	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
216	U8	7	DA	O3'-P	8.88	1.74	1.61
219	UC	33	DA	O3'-P	8.88	1.74	1.61
89	HA	17	DT	O3'-P	8.88	1.74	1.61
91	HD	12	DA	O3'-P	8.88	1.74	1.61
122	KA	15	DA	O3'-P	8.88	1.74	1.61
138	M5	24	DT	O3'-P	8.88	1.74	1.61
160	O7	34	DA	O3'-P	8.88	1.74	1.61
171	P8	28	DA	O3'-P	8.88	1.74	1.61
175	PD	3	DA	O3'-P	8.88	1.74	1.61
197	S7	18	DA	O3'-P	8.88	1.74	1.61
202	SD	21	DA	O3'-P	8.88	1.74	1.61
214	U5	39	DT	O3'-P	8.88	1.74	1.61
228	VC	16	DA	O3'-P	8.88	1.74	1.61
230	W3	25	DT	O3'-P	8.88	1.74	1.61
173	PA	1	DA	O3'-P	8.88	1.74	1.61
189	R8	10	DA	O3'-P	8.88	1.74	1.61
5	A5	36	DT	O3'-P	8.88	1.74	1.61
11	AB	164	DA	O3'-P	8.88	1.74	1.61
11	AB	184	DT	O3'-P	8.88	1.74	1.61
11	AB	192	DT	O3'-P	8.88	1.74	1.61
11	AB	596	DT	O3'-P	8.88	1.74	1.61
11	AB	1372	DT	O3'-P	8.88	1.74	1.61
11	AB	3341	DT	O3'-P	8.88	1.74	1.61
11	AB	5597	DT	O3'-P	8.88	1.74	1.61
49	E2	26	DT	O3'-P	8.88	1.74	1.61
72	G3	7	DA	O3'-P	8.88	1.74	1.61
125	L1	17	DT	O3'-P	8.88	1.74	1.61
168	P5	12	DT	O3'-P	8.88	1.74	1.61
221	V2	10	DA	O3'-P	8.88	1.74	1.61
11	AB	246	DA	O3'-P	8.88	1.74	1.61
11	AB	1159	DT	O3'-P	8.88	1.74	1.61
11	AB	1252	DA	O3'-P	8.88	1.74	1.61
11	AB	1309	DT	O3'-P	8.88	1.74	1.61
11	AB	1508	DT	O3'-P	8.88	1.74	1.61
11	AB	2113	DA	O3'-P	8.88	1.74	1.61
11	AB	2161	DA	O3'-P	8.88	1.74	1.61
11	AB	2174	DT	O3'-P	8.88	1.74	1.61
11	AB	2314	DA	O3'-P	8.88	1.74	1.61
11	AB	2558	DA	O3'-P	8.88	1.74	1.61
11	AB	2623	DA	O3'-P	8.88	1.74	1.61
11	AB	2690	DT	O3'-P	8.88	1.74	1.61
11	AB	2800	DT	O3'-P	8.88	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5494	DA	O3'-P	8.88	1.74	1.61
11	AB	7175	DA	O3'-P	8.88	1.74	1.61
119	K7	37	DT	O3'-P	8.88	1.74	1.61
11	AB	3353	DT	O3'-P	8.88	1.74	1.61
11	AB	3772	DA	O3'-P	8.88	1.74	1.61
11	AB	5437	DT	O3'-P	8.88	1.74	1.61
11	AB	5958	DA	O3'-P	8.88	1.74	1.61
11	AB	6419	DT	O3'-P	8.88	1.74	1.61
11	AB	6732	DA	O3'-P	8.88	1.74	1.61
11	AB	6864	DT	O3'-P	8.88	1.74	1.61
13	AD	5	DT	O3'-P	8.88	1.74	1.61
26	C1	20	DA	O3'-P	8.88	1.74	1.61
43	D8	2	DA	O3'-P	8.88	1.74	1.61
55	E9	5	DT	O3'-P	8.88	1.74	1.61
55	E9	30	DA	O3'-P	8.88	1.74	1.61
58	ED	33	DA	O3'-P	8.88	1.74	1.61
64	F7	5	DA	O3'-P	8.88	1.74	1.61
125	L1	3	DA	O3'-P	8.88	1.74	1.61
144	MC	14	DT	O3'-P	8.88	1.74	1.61
146	N2	16	DA	O3'-P	8.88	1.74	1.61
174	PC	17	DA	O3'-P	8.88	1.74	1.61
151	N8	3	DA	O3'-P	8.88	1.74	1.61
183	QC	15	DT	O3'-P	8.88	1.74	1.61
188	R7	26	DT	O3'-P	8.88	1.74	1.61
215	U7	2	DA	O3'-P	8.88	1.74	1.61
226	V9	25	DA	O3'-P	8.88	1.74	1.61
1	A1	48	DA	O3'-P	8.88	1.74	1.61
1	A1	55	DA	O3'-P	8.88	1.74	1.61
4	A4	18	DA	O3'-P	8.88	1.74	1.61
11	AB	1097	DT	O3'-P	8.88	1.74	1.61
19	B6	20	DA	O3'-P	8.88	1.74	1.61
101	IC	7	DA	O3'-P	8.88	1.74	1.61
5	A5	10	DA	O3'-P	8.87	1.74	1.61
7	A7	17	DA	O3'-P	8.87	1.74	1.61
11	AB	158	DA	O3'-P	8.87	1.74	1.61
11	AB	838	DA	O3'-P	8.87	1.74	1.61
11	AB	1516	DA	O3'-P	8.88	1.74	1.61
11	AB	1546	DT	O3'-P	8.88	1.74	1.61
11	AB	1806	DA	O3'-P	8.88	1.74	1.61
11	AB	1975	DT	O3'-P	8.88	1.74	1.61
11	AB	2093	DT	O3'-P	8.88	1.74	1.61
11	AB	2181	DT	O3'-P	8.88	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2791	DA	O3'-P	8.88	1.74	1.61
11	AB	2824	DT	O3'-P	8.87	1.74	1.61
11	AB	2872	DA	O3'-P	8.88	1.74	1.61
11	AB	2987	DA	O3'-P	8.88	1.74	1.61
11	AB	3700	DA	O3'-P	8.88	1.74	1.61
11	AB	4125	DT	O3'-P	8.88	1.74	1.61
11	AB	4264	DA	O3'-P	8.88	1.74	1.61
222	V3	2	DT	O3'-P	8.88	1.74	1.61
11	AB	3170	DA	O3'-P	8.87	1.74	1.61
11	AB	4266	DA	O3'-P	8.88	1.74	1.61
11	AB	4351	DA	O3'-P	8.87	1.74	1.61
11	AB	4449	DA	O3'-P	8.88	1.74	1.61
11	AB	4727	DT	O3'-P	8.88	1.74	1.61
85	H6	1	DA	O3'-P	8.88	1.74	1.61
11	AB	4450	DA	O3'-P	8.87	1.74	1.61
11	AB	5222	DT	O3'-P	8.88	1.74	1.61
11	AB	5224	DT	O3'-P	8.87	1.74	1.61
11	AB	5707	DA	O3'-P	8.88	1.74	1.61
11	AB	5877	DA	O3'-P	8.87	1.74	1.61
11	AB	6013	DA	O3'-P	8.87	1.74	1.61
11	AB	6301	DT	O3'-P	8.88	1.74	1.61
11	AB	6561	DT	O3'-P	8.88	1.74	1.61
13	AD	6	DA	O3'-P	8.87	1.74	1.61
14	B1	29	DA	O3'-P	8.88	1.74	1.61
39	D3	23	DT	O3'-P	8.88	1.74	1.61
69	FD	24	DA	O3'-P	8.88	1.74	1.61
81	H1	8	DT	O3'-P	8.88	1.74	1.61
18	B5	30	DA	O3'-P	8.87	1.74	1.61
65	F8	16	DA	O3'-P	8.87	1.74	1.61
75	G7	1	DA	O3'-P	8.87	1.74	1.61
88	H9	25	DA	O3'-P	8.88	1.74	1.61
94	I3	35	DA	O3'-P	8.88	1.74	1.61
95	I5	16	DA	O3'-P	8.88	1.74	1.61
102	ID	10	DT	O3'-P	8.88	1.74	1.61
114	K1	11	DA	O3'-P	8.88	1.74	1.61
126	L2	32	DT	O3'-P	8.88	1.74	1.61
221	V2	24	DA	O3'-P	8.88	1.74	1.61
226	V9	7	DA	O3'-P	8.88	1.74	1.61
130	L7	8	DA	O3'-P	8.87	1.74	1.61
130	L7	43	DA	O3'-P	8.87	1.74	1.61
137	M3	9	DA	O3'-P	8.87	1.74	1.61
146	N2	19	DA	O3'-P	8.87	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
160	O7	27	DA	O3'-P	8.87	1.74	1.61
162	O9	10	DA	O3'-P	8.87	1.74	1.61
163	OA	8	DA	O3'-P	8.88	1.74	1.61
175	PD	15	DT	O3'-P	8.88	1.74	1.61
190	R9	10	DA	O3'-P	8.88	1.74	1.61
220	UD	2	DT	O3'-P	8.88	1.74	1.61
228	VC	25	DA	O3'-P	8.88	1.74	1.61
185	R2	17	DA	O3'-P	8.87	1.74	1.61
196	S5	2	DA	O3'-P	8.87	1.74	1.61
214	U5	24	DT	O3'-P	8.87	1.74	1.61
237	X7	8	DA	O3'-P	8.88	1.74	1.61
105	J3	17	DT	O3'-P	8.87	1.74	1.61
228	VC	6	DA	O3'-P	8.87	1.74	1.61
1	A1	38	DT	O3'-P	8.87	1.74	1.61
11	AB	253	DT	O3'-P	8.87	1.74	1.61
11	AB	646	DT	O3'-P	8.87	1.74	1.61
11	AB	1381	DT	O3'-P	8.87	1.74	1.61
11	AB	1402	DT	O3'-P	8.87	1.74	1.61
11	AB	2513	DA	O3'-P	8.87	1.74	1.61
11	AB	2967	DT	O3'-P	8.87	1.74	1.61
11	AB	5164	DT	O3'-P	8.87	1.74	1.61
11	AB	1307	DT	O3'-P	8.87	1.74	1.61
11	AB	1563	DT	O3'-P	8.87	1.74	1.61
11	AB	1752	DA	O3'-P	8.87	1.74	1.61
11	AB	6574	DT	O3'-P	8.87	1.74	1.61
11	AB	2002	DA	O3'-P	8.87	1.74	1.61
11	AB	2020	DT	O3'-P	8.87	1.74	1.61
11	AB	2111	DT	O3'-P	8.87	1.74	1.61
11	AB	2430	DT	O3'-P	8.87	1.74	1.61
11	AB	2517	DT	O3'-P	8.87	1.74	1.61
11	AB	2670	DT	O3'-P	8.87	1.74	1.61
11	AB	2816	DT	O3'-P	8.87	1.74	1.61
11	AB	3004	DT	O3'-P	8.87	1.74	1.61
11	AB	3328	DA	O3'-P	8.87	1.74	1.61
11	AB	3221	DA	O3'-P	8.87	1.74	1.61
11	AB	3503	DT	O3'-P	8.87	1.74	1.61
11	AB	3672	DT	O3'-P	8.87	1.74	1.61
11	AB	3982	DA	O3'-P	8.87	1.74	1.61
11	AB	4269	DT	O3'-P	8.87	1.74	1.61
11	AB	4327	DT	O3'-P	8.87	1.74	1.61
11	AB	5235	DA	O3'-P	8.87	1.74	1.61
11	AB	4426	DT	O3'-P	8.87	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5163	DT	O3'-P	8.87	1.74	1.61
43	D8	41	DA	O3'-P	8.87	1.74	1.61
11	AB	5690	DT	O3'-P	8.87	1.74	1.61
11	AB	6079	DT	O3'-P	8.87	1.74	1.61
11	AB	6164	DA	O3'-P	8.87	1.74	1.61
11	AB	6200	DA	O3'-P	8.87	1.74	1.61
11	AB	6480	DT	O3'-P	8.87	1.74	1.61
12	AC	13	DT	O3'-P	8.87	1.74	1.61
26	C1	6	DA	O3'-P	8.87	1.74	1.61
26	C1	22	DA	O3'-P	8.87	1.74	1.61
212	U2	22	DT	O3'-P	8.87	1.74	1.61
37	D1	3	DA	O3'-P	8.87	1.74	1.61
40	D5	12	DT	O3'-P	8.87	1.74	1.61
64	F7	2	DA	O3'-P	8.87	1.74	1.61
83	H3	40	DA	O3'-P	8.87	1.74	1.61
107	J6	31	DT	O3'-P	8.87	1.74	1.61
115	K2	24	DA	O3'-P	8.87	1.74	1.61
109	J8	50	DA	O3'-P	8.87	1.74	1.61
114	K1	40	DT	O3'-P	8.87	1.74	1.61
130	L7	16	DA	O3'-P	8.87	1.74	1.61
135	LD	21	DA	O3'-P	8.87	1.74	1.61
155	ND	17	DT	O3'-P	8.87	1.74	1.61
162	O9	9	DT	O3'-P	8.87	1.74	1.61
166	P2	15	DT	O3'-P	8.87	1.74	1.61
177	Q3	11	DT	O3'-P	8.87	1.74	1.61
178	Q5	34	DA	O3'-P	8.87	1.74	1.61
181	Q9	30	DT	O3'-P	8.87	1.74	1.61
192	RC	31	DT	O3'-P	8.87	1.74	1.61
211	TD	26	DT	O3'-P	8.87	1.74	1.61
214	U5	19	DT	O3'-P	8.87	1.74	1.61
226	V9	9	DT	O3'-P	8.87	1.74	1.61
236	X5	21	DT	O3'-P	8.87	1.74	1.61
11	AB	7210	DA	O3'-P	8.87	1.74	1.61
1	A1	17	DA	O3'-P	8.87	1.74	1.61
3	A3	21	DA	O3'-P	8.87	1.74	1.61
11	AB	188	DT	O3'-P	8.87	1.74	1.61
11	AB	381	DA	O3'-P	8.87	1.74	1.61
11	AB	624	DT	O3'-P	8.87	1.74	1.61
11	AB	645	DT	O3'-P	8.87	1.74	1.61
11	AB	741	DT	O3'-P	8.87	1.74	1.61
11	AB	1528	DT	O3'-P	8.87	1.74	1.61
11	AB	990	DA	O3'-P	8.87	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1223	DT	O3'-P	8.87	1.74	1.61
11	AB	1550	DT	O3'-P	8.87	1.74	1.61
11	AB	1577	DA	O3'-P	8.87	1.74	1.61
11	AB	2348	DT	O3'-P	8.87	1.74	1.61
11	AB	2426	DT	O3'-P	8.87	1.74	1.61
11	AB	2831	DT	O3'-P	8.87	1.74	1.61
11	AB	2907	DA	O3'-P	8.87	1.74	1.61
11	AB	3157	DT	O3'-P	8.87	1.74	1.61
11	AB	3431	DA	O3'-P	8.87	1.74	1.61
11	AB	3905	DT	O3'-P	8.87	1.74	1.61
11	AB	4244	DT	O3'-P	8.87	1.74	1.61
11	AB	4720	DT	O3'-P	8.87	1.74	1.61
45	DA	26	DA	O3'-P	8.87	1.74	1.61
54	E8	22	DT	O3'-P	8.87	1.74	1.61
135	LD	9	DT	O3'-P	8.87	1.74	1.61
11	AB	1383	DT	O3'-P	8.87	1.74	1.61
11	AB	2256	DA	O3'-P	8.87	1.74	1.61
11	AB	2541	DA	O3'-P	8.87	1.74	1.61
11	AB	2633	DA	O3'-P	8.87	1.74	1.61
11	AB	3948	DT	O3'-P	8.87	1.74	1.61
11	AB	4856	DT	O3'-P	8.87	1.74	1.61
11	AB	4940	DT	O3'-P	8.87	1.74	1.61
11	AB	6737	DT	O3'-P	8.87	1.74	1.61
117	K5	15	DT	O3'-P	8.87	1.74	1.61
144	MC	21	DT	O3'-P	8.87	1.74	1.61
219	UC	32	DA	O3'-P	8.87	1.74	1.61
11	AB	2747	DA	O3'-P	8.87	1.74	1.61
11	AB	2772	DA	O3'-P	8.87	1.74	1.61
11	AB	2869	DA	O3'-P	8.87	1.74	1.61
11	AB	2888	DA	O3'-P	8.87	1.74	1.61
11	AB	3028	DA	O3'-P	8.87	1.74	1.61
11	AB	3570	DA	O3'-P	8.87	1.74	1.61
11	AB	3868	DA	O3'-P	8.87	1.74	1.61
11	AB	3973	DA	O3'-P	8.87	1.74	1.61
11	AB	4768	DT	O3'-P	8.87	1.74	1.61
11	AB	6037	DA	O3'-P	8.87	1.74	1.61
11	AB	6566	DT	O3'-P	8.87	1.74	1.61
11	AB	6954	DA	O3'-P	8.87	1.74	1.61
13	AD	41	DT	O3'-P	8.87	1.74	1.61
15	B2	17	DA	O3'-P	8.87	1.74	1.61
60	F2	31	DT	O3'-P	8.87	1.74	1.61
93	I2	34	DA	O3'-P	8.87	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
98	I8	29	DA	O3'-P	8.87	1.74	1.61
123	KC	14	DT	O3'-P	8.87	1.74	1.61
141	M8	6	DA	O3'-P	8.87	1.74	1.61
237	X7	5	DA	O3'-P	8.87	1.74	1.61
11	AB	4932	DA	O3'-P	8.87	1.74	1.61
11	AB	5353	DA	O3'-P	8.87	1.74	1.61
11	AB	5457	DT	O3'-P	8.87	1.74	1.61
11	AB	5562	DA	O3'-P	8.87	1.74	1.61
98	I8	28	DA	O3'-P	8.87	1.74	1.61
11	AB	5787	DT	O3'-P	8.87	1.74	1.61
11	AB	5808	DT	O3'-P	8.87	1.74	1.61
11	AB	5846	DA	O3'-P	8.87	1.74	1.61
227	VA	9	DT	O3'-P	8.87	1.74	1.61
11	AB	5903	DA	O3'-P	8.87	1.74	1.61
11	AB	6128	DT	O3'-P	8.87	1.74	1.61
11	AB	6209	DA	O3'-P	8.87	1.74	1.61
11	AB	6418	DT	O3'-P	8.87	1.74	1.61
11	AB	6782	DA	O3'-P	8.87	1.74	1.61
11	AB	6890	DT	O3'-P	8.87	1.74	1.61
19	B6	3	DA	O3'-P	8.87	1.74	1.61
22	B9	2	DT	O3'-P	8.87	1.74	1.61
22	B9	30	DA	O3'-P	8.87	1.74	1.61
26	C1	16	DT	O3'-P	8.87	1.74	1.61
31	C7	7	DT	O3'-P	8.87	1.74	1.61
31	C7	25	DA	O3'-P	8.87	1.74	1.61
54	E8	32	DT	O3'-P	8.87	1.74	1.61
57	EC	5	DA	O3'-P	8.87	1.74	1.61
58	ED	14	DA	O3'-P	8.87	1.74	1.61
59	F1	5	DA	O3'-P	8.87	1.74	1.61
60	F2	16	DT	O3'-P	8.87	1.74	1.61
68	FC	2	DA	O3'-P	8.87	1.74	1.61
72	G3	21	DT	O3'-P	8.87	1.74	1.61
73	G5	9	DA	O3'-P	8.87	1.74	1.61
77	G9	14	DT	O3'-P	8.87	1.74	1.61
108	J7	23	DA	O3'-P	8.87	1.74	1.61
114	K1	19	DA	O3'-P	8.87	1.74	1.61
114	K1	34	DA	O3'-P	8.87	1.74	1.61
116	K3	12	DA	O3'-P	8.87	1.74	1.61
126	L2	33	DA	O3'-P	8.87	1.74	1.61
136	M2	4	DA	O3'-P	8.87	1.74	1.61
144	MC	17	DT	O3'-P	8.87	1.74	1.61
149	N6	40	DA	O3'-P	8.87	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
152	N9	8	DA	O3'-P	8.87	1.74	1.61
163	OA	15	DT	O3'-P	8.87	1.74	1.61
165	OD	33	DA	O3'-P	8.87	1.74	1.61
166	P2	25	DA	O3'-P	8.87	1.74	1.61
170	P7	18	DA	O3'-P	8.87	1.74	1.61
181	Q9	26	DA	O3'-P	8.87	1.74	1.61
228	VC	1	DA	O3'-P	8.87	1.74	1.61
194	S2	7	DA	O3'-P	8.87	1.74	1.61
214	U5	12	DA	O3'-P	8.87	1.74	1.61
231	W5	25	DA	O3'-P	8.87	1.74	1.61
216	U8	22	DT	O3'-P	8.87	1.74	1.61
5	A5	27	DA	O3'-P	8.87	1.74	1.61
11	AB	431	DT	O3'-P	8.87	1.74	1.61
190	R9	39	DA	O3'-P	8.87	1.74	1.61
11	AB	177	DT	O3'-P	8.86	1.74	1.61
11	AB	484	DA	O3'-P	8.86	1.74	1.61
11	AB	1262	DA	O3'-P	8.87	1.74	1.61
11	AB	1758	DA	O3'-P	8.87	1.74	1.61
11	AB	1930	DT	O3'-P	8.87	1.74	1.61
11	AB	2330	DT	O3'-P	8.87	1.74	1.61
11	AB	5791	DT	O3'-P	8.87	1.74	1.61
83	H3	39	DA	O3'-P	8.87	1.74	1.61
11	AB	1946	DT	O3'-P	8.86	1.74	1.61
11	AB	2194	DT	O3'-P	8.86	1.74	1.61
11	AB	2737	DA	O3'-P	8.87	1.74	1.61
11	AB	2913	DA	O3'-P	8.86	1.74	1.61
11	AB	3092	DA	O3'-P	8.86	1.74	1.61
11	AB	3275	DA	O3'-P	8.86	1.74	1.61
11	AB	3926	DA	O3'-P	8.87	1.74	1.61
11	AB	3928	DT	O3'-P	8.87	1.74	1.61
11	AB	4446	DA	O3'-P	8.87	1.74	1.61
11	AB	5007	DA	O3'-P	8.87	1.74	1.61
11	AB	6718	DT	O3'-P	8.87	1.74	1.61
11	AB	6879	DT	O3'-P	8.87	1.74	1.61
13	AD	39	DT	O3'-P	8.87	1.74	1.61
16	B3	9	DT	O3'-P	8.87	1.74	1.61
105	J3	7	DT	O3'-P	8.87	1.74	1.61
108	J7	48	DA	O3'-P	8.87	1.74	1.61
163	OA	6	DA	O3'-P	8.87	1.74	1.61
215	U7	1	DA	O3'-P	8.87	1.74	1.61
11	AB	5229	DT	O3'-P	8.86	1.74	1.61
11	AB	5796	DT	O3'-P	8.86	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5970	DA	O3'-P	8.87	1.74	1.61
11	AB	5998	DT	O3'-P	8.86	1.74	1.61
11	AB	6312	DT	O3'-P	8.86	1.74	1.61
11	AB	6423	DT	O3'-P	8.86	1.74	1.61
11	AB	6829	DA	O3'-P	8.87	1.74	1.61
188	R7	11	DT	O3'-P	8.87	1.74	1.61
12	AC	8	DA	O3'-P	8.86	1.74	1.61
29	C5	5	DA	O3'-P	8.86	1.74	1.61
40	D5	11	DA	O3'-P	8.86	1.74	1.61
47	DD	26	DA	O3'-P	8.86	1.74	1.61
69	FD	13	DT	O3'-P	8.87	1.74	1.61
80	GD	8	DT	O3'-P	8.86	1.74	1.61
89	HA	6	DT	O3'-P	8.86	1.74	1.61
93	I2	3	DA	O3'-P	8.87	1.74	1.61
98	I8	19	DA	O3'-P	8.87	1.74	1.61
107	J6	10	DA	O3'-P	8.86	1.74	1.61
118	K6	19	DA	O3'-P	8.87	1.74	1.61
128	L5	7	DT	O3'-P	8.87	1.74	1.61
142	M9	15	DA	O3'-P	8.87	1.74	1.61
146	N2	10	DA	O3'-P	8.87	1.74	1.61
189	R8	24	DA	O3'-P	8.87	1.74	1.61
189	R8	32	DA	O3'-P	8.87	1.74	1.61
211	TD	32	DA	O3'-P	8.87	1.74	1.61
225	V8	14	DA	O3'-P	8.87	1.74	1.61
230	W3	24	DT	O3'-P	8.86	1.74	1.61
231	W5	10	DT	O3'-P	8.86	1.74	1.61
237	X7	3	DT	O3'-P	8.86	1.74	1.61
238	X9	23	DA	O3'-P	8.86	1.74	1.61
238	X9	39	DA	O3'-P	8.87	1.74	1.61
5	A5	1	DT	O3'-P	8.86	1.74	1.61
11	AB	3	DA	O3'-P	8.86	1.74	1.61
11	AB	319	DA	O3'-P	8.86	1.74	1.61
11	AB	982	DA	O3'-P	8.86	1.74	1.61
11	AB	1523	DT	O3'-P	8.86	1.74	1.61
11	AB	2127	DA	O3'-P	8.86	1.74	1.61
11	AB	2282	DT	O3'-P	8.86	1.74	1.61
11	AB	2438	DT	O3'-P	8.86	1.74	1.61
11	AB	2629	DA	O3'-P	8.86	1.74	1.61
11	AB	2640	DA	O3'-P	8.86	1.74	1.61
11	AB	2662	DA	O3'-P	8.86	1.74	1.61
11	AB	2803	DA	O3'-P	8.86	1.74	1.61
11	AB	2820	DT	O3'-P	8.86	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2306	DA	O3'-P	8.86	1.74	1.61
11	AB	3008	DT	O3'-P	8.86	1.74	1.61
11	AB	3138	DT	O3'-P	8.86	1.74	1.61
11	AB	3147	DT	O3'-P	8.86	1.74	1.61
11	AB	3285	DT	O3'-P	8.86	1.74	1.61
11	AB	3587	DA	O3'-P	8.86	1.74	1.61
11	AB	3908	DT	O3'-P	8.86	1.74	1.61
11	AB	4456	DA	O3'-P	8.86	1.74	1.61
11	AB	3483	DT	O3'-P	8.86	1.74	1.61
11	AB	3933	DA	O3'-P	8.86	1.74	1.61
11	AB	4579	DA	O3'-P	8.86	1.74	1.61
11	AB	5812	DT	O3'-P	8.86	1.74	1.61
11	AB	5842	DA	O3'-P	8.86	1.74	1.61
11	AB	4686	DT	O3'-P	8.86	1.74	1.61
11	AB	4917	DA	O3'-P	8.86	1.74	1.61
11	AB	5196	DA	O3'-P	8.86	1.74	1.61
11	AB	5313	DA	O3'-P	8.86	1.74	1.61
11	AB	5443	DT	O3'-P	8.86	1.74	1.61
11	AB	5780	DT	O3'-P	8.86	1.74	1.61
11	AB	5982	DT	O3'-P	8.86	1.74	1.61
11	AB	6085	DA	O3'-P	8.86	1.74	1.61
11	AB	6174	DT	O3'-P	8.86	1.74	1.61
11	AB	6495	DT	O3'-P	8.86	1.74	1.61
11	AB	6784	DA	O3'-P	8.86	1.74	1.61
23	BA	28	DT	O3'-P	8.86	1.74	1.61
25	BD	20	DA	O3'-P	8.86	1.74	1.61
49	E2	15	DT	O3'-P	8.86	1.74	1.61
51	E5	21	DT	O3'-P	8.86	1.74	1.61
53	E7	2	DT	O3'-P	8.86	1.74	1.61
59	F1	19	DA	O3'-P	8.86	1.74	1.61
62	F5	8	DT	O3'-P	8.86	1.74	1.61
77	G9	15	DT	O3'-P	8.86	1.74	1.61
83	H3	13	DA	O3'-P	8.86	1.74	1.61
86	H7	16	DT	O3'-P	8.86	1.74	1.61
95	I5	24	DA	O3'-P	8.86	1.74	1.61
95	I5	39	DA	O3'-P	8.86	1.74	1.61
109	J8	5	DT	O3'-P	8.86	1.74	1.61
130	L7	48	DA	O3'-P	8.86	1.74	1.61
141	M8	24	DA	O3'-P	8.86	1.74	1.61
113	JD	8	DA	O3'-P	8.86	1.74	1.61
115	K2	12	DT	O3'-P	8.86	1.74	1.61
160	O7	37	DA	O3'-P	8.86	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
163	OA	7	DA	O3'-P	8.86	1.74	1.61
167	P3	6	DT	O3'-P	8.86	1.74	1.61
175	PD	2	DA	O3'-P	8.86	1.74	1.61
179	Q7	19	DA	O3'-P	8.86	1.74	1.61
178	Q5	31	DT	O3'-P	8.86	1.74	1.61
190	R9	19	DT	O3'-P	8.86	1.74	1.61
236	X5	10	DA	O3'-P	8.86	1.74	1.61
192	RC	14	DA	O3'-P	8.86	1.74	1.61
214	U5	36	DA	O3'-P	8.86	1.74	1.61
7	A7	33	DA	O3'-P	8.86	1.74	1.61
11	AB	286	DA	O3'-P	8.86	1.74	1.61
11	AB	446	DT	O3'-P	8.86	1.74	1.61
11	AB	722	DA	O3'-P	8.86	1.74	1.61
11	AB	1733	DA	O3'-P	8.86	1.74	1.61
110	J9	8	DT	O3'-P	8.86	1.74	1.61
11	AB	194	DT	O3'-P	8.86	1.74	1.61
11	AB	603	DT	O3'-P	8.86	1.74	1.61
11	AB	1140	DA	O3'-P	8.86	1.74	1.61
11	AB	4229	DT	O3'-P	8.86	1.74	1.61
11	AB	1325	DA	O3'-P	8.86	1.74	1.61
11	AB	1456	DA	O3'-P	8.86	1.74	1.61
11	AB	1557	DT	O3'-P	8.86	1.74	1.61
11	AB	1816	DT	O3'-P	8.86	1.74	1.61
108	J7	44	DT	O3'-P	8.86	1.74	1.61
170	P7	14	DA	O3'-P	8.86	1.74	1.61
11	AB	1607	DA	O3'-P	8.86	1.74	1.61
11	AB	1717	DT	O3'-P	8.86	1.74	1.61
11	AB	1718	DT	O3'-P	8.86	1.74	1.61
11	AB	1859	DA	O3'-P	8.86	1.74	1.61
11	AB	2199	DT	O3'-P	8.86	1.74	1.61
11	AB	2812	DA	O3'-P	8.86	1.74	1.61
11	AB	3136	DA	O3'-P	8.86	1.74	1.61
11	AB	3196	DA	O3'-P	8.86	1.74	1.61
11	AB	3382	DA	O3'-P	8.86	1.74	1.61
11	AB	5359	DA	O3'-P	8.86	1.74	1.61
11	AB	3337	DA	O3'-P	8.86	1.74	1.61
11	AB	3759	DT	O3'-P	8.86	1.74	1.61
11	AB	3797	DA	O3'-P	8.86	1.74	1.61
11	AB	4236	DT	O3'-P	8.86	1.74	1.61
11	AB	4349	DT	O3'-P	8.86	1.74	1.61
11	AB	4417	DT	O3'-P	8.86	1.74	1.61
11	AB	4676	DT	O3'-P	8.86	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4763	DA	O3'-P	8.86	1.74	1.61
11	AB	5225	DA	O3'-P	8.86	1.74	1.61
11	AB	5422	DA	O3'-P	8.86	1.74	1.61
11	AB	5608	DT	O3'-P	8.86	1.74	1.61
11	AB	6067	DA	O3'-P	8.86	1.74	1.61
11	AB	6163	DA	O3'-P	8.86	1.74	1.61
11	AB	6263	DA	O3'-P	8.86	1.74	1.61
11	AB	6793	DT	O3'-P	8.86	1.74	1.61
11	AB	7233	DA	O3'-P	8.86	1.74	1.61
12	AC	15	DT	O3'-P	8.86	1.74	1.61
11	AB	7055	DT	O3'-P	8.86	1.74	1.61
12	AC	9	DA	O3'-P	8.86	1.74	1.61
13	AD	24	DA	O3'-P	8.86	1.74	1.61
16	B3	21	DA	O3'-P	8.86	1.74	1.61
58	ED	24	DA	O3'-P	8.86	1.74	1.61
214	U5	40	DT	O3'-P	8.86	1.74	1.61
18	B5	35	DT	O3'-P	8.86	1.74	1.61
43	D8	15	DA	O3'-P	8.86	1.74	1.61
62	F5	12	DA	O3'-P	8.86	1.74	1.61
84	H5	27	DT	O3'-P	8.86	1.74	1.61
103	J1	20	DA	O3'-P	8.86	1.74	1.61
107	J6	4	DA	O3'-P	8.86	1.74	1.61
112	JC	22	DT	O3'-P	8.86	1.74	1.61
140	M7	18	DA	O3'-P	8.86	1.74	1.61
88	H9	24	DA	O3'-P	8.86	1.74	1.61
109	J8	37	DA	O3'-P	8.86	1.74	1.61
112	JC	21	DT	O3'-P	8.86	1.74	1.61
118	K6	6	DT	O3'-P	8.86	1.74	1.61
147	N3	14	DT	O3'-P	8.86	1.74	1.61
148	N5	8	DT	O3'-P	8.86	1.74	1.61
149	N6	28	DA	O3'-P	8.86	1.74	1.61
180	Q8	18	DT	O3'-P	8.86	1.74	1.61
221	V2	2	DT	O3'-P	8.86	1.74	1.61
235	WD	18	DA	O3'-P	8.86	1.74	1.61
237	X7	9	DA	O3'-P	8.86	1.74	1.61
1	A1	56	DT	O3'-P	8.86	1.74	1.61
7	A7	32	DA	O3'-P	8.86	1.74	1.61
11	AB	248	DT	O3'-P	8.86	1.74	1.61
11	AB	1554	DT	O3'-P	8.86	1.74	1.61
11	AB	209	DA	O3'-P	8.86	1.74	1.61
11	AB	595	DT	O3'-P	8.86	1.74	1.61
11	AB	2498	DT	O3'-P	8.86	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4207	DA	O3'-P	8.86	1.74	1.61
11	AB	6260	DT	O3'-P	8.86	1.74	1.61
17	B4	9	DA	O3'-P	8.86	1.74	1.61
11	AB	688	DT	O3'-P	8.86	1.74	1.61
11	AB	1022	DA	O3'-P	8.86	1.74	1.61
11	AB	1553	DT	O3'-P	8.86	1.74	1.61
11	AB	2342	DT	O3'-P	8.86	1.74	1.61
11	AB	2420	DT	O3'-P	8.86	1.74	1.61
11	AB	2519	DT	O3'-P	8.86	1.74	1.61
11	AB	2682	DT	O3'-P	8.86	1.74	1.61
11	AB	2707	DT	O3'-P	8.86	1.74	1.61
11	AB	2844	DT	O3'-P	8.86	1.74	1.61
11	AB	3848	DT	O3'-P	8.86	1.74	1.61
11	AB	3015	DT	O3'-P	8.86	1.74	1.61
11	AB	4209	DA	O3'-P	8.86	1.74	1.61
11	AB	4263	DA	O3'-P	8.86	1.74	1.61
11	AB	5209	DT	O3'-P	8.86	1.74	1.61
11	AB	5306	DT	O3'-P	8.86	1.74	1.61
11	AB	5517	DA	O3'-P	8.86	1.74	1.61
11	AB	5650	DA	O3'-P	8.86	1.74	1.61
11	AB	6095	DT	O3'-P	8.86	1.74	1.61
11	AB	6172	DT	O3'-P	8.86	1.74	1.61
11	AB	6373	DA	O3'-P	8.86	1.74	1.61
11	AB	6417	DT	O3'-P	8.86	1.74	1.61
11	AB	6593	DT	O3'-P	8.86	1.74	1.61
11	AB	6642	DA	O3'-P	8.86	1.74	1.61
62	F5	23	DA	O3'-P	8.86	1.74	1.61
117	K5	37	DT	O3'-P	8.86	1.74	1.61
173	PA	31	DA	O3'-P	8.86	1.74	1.61
204	T3	10	DA	O3'-P	8.86	1.74	1.61
11	AB	6719	DT	O3'-P	8.86	1.74	1.61
11	AB	7060	DT	O3'-P	8.86	1.74	1.61
11	AB	7184	DT	O3'-P	8.86	1.74	1.61
13	AD	40	DT	O3'-P	8.86	1.74	1.61
16	B3	8	DT	O3'-P	8.86	1.74	1.61
60	F2	30	DT	O3'-P	8.86	1.74	1.61
66	F9	17	DT	O3'-P	8.86	1.74	1.61
94	I3	23	DA	O3'-P	8.86	1.74	1.61
100	IA	19	DA	O3'-P	8.86	1.74	1.61
103	J1	11	DT	O3'-P	8.86	1.74	1.61
204	T3	32	DT	O3'-P	8.86	1.74	1.61
104	J2	34	DA	O3'-P	8.86	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
106	J5	9	DT	O3'-P	8.86	1.74	1.61
135	LD	8	DT	O3'-P	8.86	1.74	1.61
148	N5	32	DA	O3'-P	8.86	1.74	1.61
149	N6	22	DT	O3'-P	8.86	1.74	1.61
154	NC	19	DT	O3'-P	8.86	1.74	1.61
159	O6	1	DT	O3'-P	8.86	1.74	1.61
193	RD	10	DT	O3'-P	8.86	1.74	1.61
11	AB	1201	DA	O3'-P	8.85	1.74	1.61
5	A5	26	DT	O3'-P	8.85	1.74	1.61
11	AB	947	DT	O3'-P	8.85	1.74	1.61
11	AB	1392	DT	O3'-P	8.85	1.74	1.61
11	AB	1679	DT	O3'-P	8.85	1.74	1.61
11	AB	2511	DA	O3'-P	8.85	1.74	1.61
11	AB	2751	DA	O3'-P	8.85	1.74	1.61
11	AB	3001	DT	O3'-P	8.85	1.74	1.61
11	AB	4787	DA	O3'-P	8.85	1.74	1.61
11	AB	6161	DT	O3'-P	8.85	1.74	1.61
11	AB	6587	DT	O3'-P	8.85	1.74	1.61
11	AB	6790	DT	O3'-P	8.85	1.74	1.61
9	A9	11	DA	O3'-P	8.85	1.74	1.61
11	AB	1030	DA	O3'-P	8.85	1.74	1.61
11	AB	1371	DT	O3'-P	8.85	1.74	1.61
11	AB	2112	DA	O3'-P	8.85	1.74	1.61
11	AB	2620	DA	O3'-P	8.85	1.74	1.61
11	AB	2815	DT	O3'-P	8.85	1.74	1.61
11	AB	2865	DA	O3'-P	8.85	1.74	1.61
148	N5	9	DT	O3'-P	8.85	1.74	1.61
11	AB	2942	DA	O3'-P	8.85	1.74	1.61
11	AB	3006	DT	O3'-P	8.85	1.74	1.61
11	AB	3111	DA	O3'-P	8.85	1.74	1.61
11	AB	3160	DT	O3'-P	8.85	1.74	1.61
11	AB	3177	DT	O3'-P	8.85	1.74	1.61
11	AB	3240	DA	O3'-P	8.85	1.74	1.61
11	AB	3322	DA	O3'-P	8.85	1.74	1.61
11	AB	3347	DA	O3'-P	8.85	1.74	1.61
11	AB	5778	DT	O3'-P	8.85	1.74	1.61
11	AB	6060	DA	O3'-P	8.85	1.74	1.61
11	AB	5309	DA	O3'-P	8.85	1.74	1.61
11	AB	6066	DA	O3'-P	8.85	1.74	1.61
11	AB	6132	DT	O3'-P	8.85	1.74	1.61
11	AB	7061	DT	O3'-P	8.85	1.74	1.61
51	E5	30	DA	O3'-P	8.85	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5769	DA	O3'-P	8.85	1.74	1.61
11	AB	6273	DA	O3'-P	8.85	1.74	1.61
11	AB	6558	DT	O3'-P	8.85	1.74	1.61
11	AB	6562	DA	O3'-P	8.85	1.74	1.61
11	AB	6956	DT	O3'-P	8.85	1.74	1.61
11	AB	7009	DA	O3'-P	8.85	1.74	1.61
11	AB	7043	DT	O3'-P	8.85	1.74	1.61
33	C9	22	DA	O3'-P	8.85	1.74	1.61
35	CC	5	DT	O3'-P	8.85	1.74	1.61
50	E3	10	DA	O3'-P	8.85	1.74	1.61
84	H5	18	DA	O3'-P	8.85	1.74	1.61
87	H8	9	DA	O3'-P	8.85	1.74	1.61
108	J7	18	DT	O3'-P	8.85	1.74	1.61
115	K2	13	DT	O3'-P	8.85	1.74	1.61
138	M5	18	DT	O3'-P	8.85	1.74	1.61
92	I1	20	DT	O3'-P	8.85	1.74	1.61
98	I8	15	DA	O3'-P	8.85	1.74	1.61
100	IA	13	DA	O3'-P	8.85	1.74	1.61
105	J3	28	DT	O3'-P	8.85	1.74	1.61
119	K7	42	DT	O3'-P	8.85	1.74	1.61
121	K9	5	DA	O3'-P	8.85	1.74	1.61
107	J6	37	DA	O3'-P	8.85	1.74	1.61
122	KA	48	DA	O3'-P	8.85	1.74	1.61
131	L8	13	DT	O3'-P	8.85	1.74	1.61
149	N6	5	DT	O3'-P	8.85	1.74	1.61
178	Q5	26	DA	O3'-P	8.85	1.74	1.61
191	RA	18	DT	O3'-P	8.85	1.74	1.61
147	N3	31	DA	O3'-P	8.85	1.74	1.61
152	N9	35	DA	O3'-P	8.85	1.74	1.61
176	Q2	19	DA	O3'-P	8.85	1.74	1.61
178	Q5	32	DT	O3'-P	8.85	1.74	1.61
178	Q5	33	DT	O3'-P	8.85	1.74	1.61
186	R3	16	DT	O3'-P	8.85	1.74	1.61
193	RD	15	DA	O3'-P	8.85	1.74	1.61
230	W3	22	DT	O3'-P	8.85	1.74	1.61
7	A7	28	DT	O3'-P	8.85	1.74	1.61
11	AB	35	DA	O3'-P	8.85	1.74	1.61
11	AB	1021	DA	O3'-P	8.85	1.74	1.61
11	AB	1157	DT	O3'-P	8.85	1.74	1.61
11	AB	1512	DT	O3'-P	8.85	1.74	1.61
11	AB	2431	DT	O3'-P	8.85	1.74	1.61
11	AB	3510	DT	O3'-P	8.85	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
137	M3	22	DT	O3'-P	8.85	1.74	1.61
222	V3	19	DT	O3'-P	8.85	1.74	1.61
11	AB	2269	DA	O3'-P	8.85	1.74	1.61
11	AB	2361	DA	O3'-P	8.85	1.74	1.61
11	AB	2794	DA	O3'-P	8.85	1.74	1.61
11	AB	3539	DA	O3'-P	8.85	1.74	1.61
11	AB	3098	DA	O3'-P	8.85	1.74	1.61
11	AB	3312	DT	O3'-P	8.85	1.74	1.61
11	AB	3526	DT	O3'-P	8.85	1.74	1.61
11	AB	3612	DT	O3'-P	8.85	1.74	1.61
11	AB	3856	DA	O3'-P	8.85	1.74	1.61
11	AB	5210	DT	O3'-P	8.85	1.74	1.61
11	AB	4874	DT	O3'-P	8.85	1.74	1.61
11	AB	5267	DA	O3'-P	8.85	1.74	1.61
11	AB	5327	DA	O3'-P	8.85	1.74	1.61
11	AB	5383	DT	O3'-P	8.85	1.74	1.61
11	AB	5386	DT	O3'-P	8.85	1.74	1.61
11	AB	5573	DA	O3'-P	8.85	1.74	1.61
11	AB	5739	DA	O3'-P	8.85	1.74	1.61
11	AB	6246	DT	O3'-P	8.85	1.74	1.61
11	AB	6259	DT	O3'-P	8.85	1.74	1.61
11	AB	6426	DT	O3'-P	8.85	1.74	1.61
11	AB	6871	DT	O3'-P	8.85	1.74	1.61
11	AB	6889	DT	O3'-P	8.85	1.74	1.61
47	DD	35	DA	O3'-P	8.85	1.74	1.61
49	E2	11	DT	O3'-P	8.85	1.74	1.61
54	E8	31	DT	O3'-P	8.85	1.74	1.61
55	E9	32	DT	O3'-P	8.85	1.74	1.61
58	ED	26	DT	O3'-P	8.85	1.74	1.61
60	F2	32	DT	O3'-P	8.85	1.74	1.61
113	JD	19	DA	O3'-P	8.85	1.74	1.61
130	L7	19	DA	O3'-P	8.85	1.74	1.61
133	LA	8	DT	O3'-P	8.85	1.74	1.61
143	MA	5	DT	O3'-P	8.85	1.74	1.61
144	MC	20	DT	O3'-P	8.85	1.74	1.61
173	PA	19	DT	O3'-P	8.85	1.74	1.61
220	UD	11	DT	O3'-P	8.85	1.74	1.61
11	AB	3308	DT	O3'-P	8.85	1.74	1.61
11	AB	3440	DT	O3'-P	8.85	1.74	1.61
11	AB	226	DT	O3'-P	8.85	1.74	1.61
11	AB	667	DT	O3'-P	8.85	1.74	1.61
11	AB	1297	DA	O3'-P	8.85	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1304	DT	O3'-P	8.85	1.74	1.61
11	AB	1303	DT	O3'-P	8.85	1.74	1.61
11	AB	2023	DT	O3'-P	8.85	1.74	1.61
11	AB	2835	DT	O3'-P	8.85	1.74	1.61
11	AB	2631	DA	O3'-P	8.85	1.74	1.61
11	AB	2681	DT	O3'-P	8.85	1.74	1.61
11	AB	3062	DT	O3'-P	8.85	1.74	1.61
11	AB	3183	DT	O3'-P	8.85	1.74	1.61
11	AB	3287	DT	O3'-P	8.85	1.74	1.61
11	AB	3851	DT	O3'-P	8.85	1.74	1.61
11	AB	4761	DA	O3'-P	8.85	1.74	1.61
11	AB	5609	DT	O3'-P	8.85	1.74	1.61
11	AB	3595	DA	O3'-P	8.85	1.74	1.61
11	AB	3855	DT	O3'-P	8.85	1.74	1.61
11	AB	4150	DT	O3'-P	8.85	1.74	1.61
11	AB	5244	DT	O3'-P	8.85	1.74	1.61
11	AB	5290	DT	O3'-P	8.85	1.74	1.61
11	AB	5567	DA	O3'-P	8.85	1.74	1.61
43	D8	44	DT	O3'-P	8.85	1.74	1.61
198	S8	9	DT	O3'-P	8.85	1.74	1.61
11	AB	5338	DA	O3'-P	8.85	1.74	1.61
11	AB	5569	DA	O3'-P	8.85	1.74	1.61
11	AB	5821	DA	O3'-P	8.85	1.74	1.61
11	AB	5975	DA	O3'-P	8.85	1.74	1.61
11	AB	6214	DA	O3'-P	8.85	1.74	1.61
11	AB	6455	DA	O3'-P	8.85	1.74	1.61
11	AB	6415	DT	O3'-P	8.85	1.74	1.61
11	AB	6531	DA	O3'-P	8.85	1.74	1.61
62	F5	39	DA	O3'-P	8.85	1.74	1.61
11	AB	6853	DA	O3'-P	8.85	1.74	1.61
11	AB	7183	DT	O3'-P	8.85	1.74	1.61
14	B1	36	DA	O3'-P	8.85	1.74	1.61
22	B9	29	DT	O3'-P	8.85	1.74	1.61
49	E2	25	DT	O3'-P	8.85	1.74	1.61
78	GA	4	DT	O3'-P	8.85	1.74	1.61
83	H3	3	DT	O3'-P	8.85	1.74	1.61
98	I8	27	DT	O3'-P	8.85	1.74	1.61
119	K7	41	DT	O3'-P	8.85	1.74	1.61
125	L1	34	DA	O3'-P	8.85	1.74	1.61
161	O8	12	DA	O3'-P	8.85	1.74	1.61
186	R3	21	DT	O3'-P	8.85	1.74	1.61
200	SA	20	DA	O3'-P	8.85	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
226	V9	5	DA	O3'-P	8.85	1.74	1.61
231	W5	9	DT	O3'-P	8.85	1.74	1.61
231	W5	11	DT	O3'-P	8.85	1.74	1.61
237	X7	4	DT	O3'-P	8.85	1.74	1.61
8	A8	11	DA	O3'-P	8.84	1.74	1.61
11	AB	1725	DT	O3'-P	8.84	1.74	1.61
11	AB	4722	DT	O3'-P	8.84	1.74	1.61
32	C8	12	DT	O3'-P	8.84	1.74	1.61
11	AB	141	DA	O3'-P	8.84	1.74	1.61
11	AB	161	DA	O3'-P	8.84	1.74	1.61
11	AB	178	DT	O3'-P	8.84	1.74	1.61
11	AB	225	DT	O3'-P	8.84	1.74	1.61
11	AB	975	DT	O3'-P	8.84	1.74	1.61
67	FA	10	DT	O3'-P	8.84	1.74	1.61
200	SA	23	DT	O3'-P	8.84	1.74	1.61
11	AB	668	DT	O3'-P	8.84	1.74	1.61
11	AB	689	DT	O3'-P	8.84	1.74	1.61
11	AB	716	DA	O3'-P	8.84	1.74	1.61
11	AB	732	DT	O3'-P	8.84	1.74	1.61
11	AB	976	DT	O3'-P	8.84	1.74	1.61
11	AB	1013	DT	O3'-P	8.84	1.74	1.61
11	AB	1220	DT	O3'-P	8.84	1.74	1.61
11	AB	1322	DA	O3'-P	8.84	1.74	1.61
11	AB	1681	DT	O3'-P	8.84	1.74	1.61
11	AB	1765	DA	O3'-P	8.84	1.74	1.61
11	AB	1777	DA	O3'-P	8.84	1.74	1.61
11	AB	2130	DA	O3'-P	8.84	1.74	1.61
11	AB	2363	DT	O3'-P	8.84	1.74	1.61
11	AB	2427	DT	O3'-P	8.84	1.74	1.61
11	AB	2439	DT	O3'-P	8.84	1.74	1.61
11	AB	2441	DT	O3'-P	8.84	1.74	1.61
11	AB	2493	DT	O3'-P	8.84	1.74	1.61
11	AB	2552	DA	O3'-P	8.84	1.74	1.61
11	AB	2797	DT	O3'-P	8.84	1.74	1.61
11	AB	2921	DA	O3'-P	8.84	1.74	1.61
11	AB	3305	DT	O3'-P	8.84	1.74	1.61
11	AB	3330	DT	O3'-P	8.84	1.74	1.61
11	AB	3332	DT	O3'-P	8.84	1.74	1.61
11	AB	3767	DT	O3'-P	8.84	1.74	1.61
11	AB	3907	DT	O3'-P	8.84	1.74	1.61
11	AB	3995	DT	O3'-P	8.84	1.74	1.61
11	AB	5465	DT	O3'-P	8.84	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5713	DT	O3'-P	8.84	1.74	1.61
11	AB	5999	DT	O3'-P	8.84	1.74	1.61
11	AB	6488	DT	O3'-P	8.84	1.74	1.61
11	AB	6582	DT	O3'-P	8.84	1.74	1.61
42	D7	1	DT	O3'-P	8.84	1.74	1.61
52	E6	9	DA	O3'-P	8.84	1.74	1.61
67	FA	24	DT	O3'-P	8.84	1.74	1.61
78	GA	10	DT	O3'-P	8.84	1.74	1.61
82	H2	16	DT	O3'-P	8.84	1.74	1.61
142	M9	12	DT	O3'-P	8.84	1.74	1.61
161	O8	21	DA	O3'-P	8.84	1.74	1.61
11	AB	4750	DA	O3'-P	8.84	1.74	1.61
11	AB	4923	DT	O3'-P	8.84	1.74	1.61
11	AB	5317	DT	O3'-P	8.84	1.74	1.61
11	AB	5833	DA	O3'-P	8.84	1.74	1.61
11	AB	6343	DT	O3'-P	8.84	1.74	1.61
11	AB	6427	DT	O3'-P	8.84	1.74	1.61
51	E5	14	DT	O3'-P	8.84	1.74	1.61
11	AB	6500	DT	O3'-P	8.84	1.74	1.61
11	AB	6583	DT	O3'-P	8.84	1.74	1.61
92	I1	9	DA	O3'-P	8.84	1.74	1.61
121	K9	16	DT	O3'-P	8.84	1.74	1.61
183	QC	26	DT	O3'-P	8.84	1.74	1.61
193	RD	16	DA	O3'-P	8.84	1.74	1.61
11	AB	7079	DT	O3'-P	8.84	1.74	1.61
11	AB	7222	DT	O3'-P	8.84	1.74	1.61
21	B8	21	DA	O3'-P	8.84	1.74	1.61
29	C5	17	DT	O3'-P	8.84	1.74	1.61
31	C7	8	DT	O3'-P	8.84	1.74	1.61
55	E9	9	DT	O3'-P	8.84	1.74	1.61
43	D8	13	DA	O3'-P	8.84	1.74	1.61
50	E3	6	DA	O3'-P	8.84	1.74	1.61
88	H9	1	DA	O3'-P	8.84	1.74	1.61
98	I8	40	DT	O3'-P	8.84	1.74	1.61
107	J6	38	DA	O3'-P	8.84	1.74	1.61
117	K5	1	DT	O3'-P	8.84	1.74	1.61
123	KC	6	DT	O3'-P	8.84	1.74	1.61
125	L1	43	DT	O3'-P	8.84	1.74	1.61
130	L7	52	DA	O3'-P	8.84	1.74	1.61
133	LA	20	DT	O3'-P	8.84	1.74	1.61
149	N6	9	DT	O3'-P	8.84	1.74	1.61
138	M5	20	DT	O3'-P	8.84	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
138	M5	38	DT	O3'-P	8.84	1.74	1.61
141	M8	13	DA	O3'-P	8.84	1.74	1.61
161	O8	41	DA	O3'-P	8.84	1.74	1.61
165	OD	52	DA	O3'-P	8.84	1.74	1.61
158	O5	30	DT	O3'-P	8.84	1.74	1.61
171	P8	8	DT	O3'-P	8.84	1.74	1.61
172	P9	23	DT	O3'-P	8.84	1.74	1.61
175	PD	14	DT	O3'-P	8.84	1.74	1.61
181	Q9	28	DT	O3'-P	8.84	1.74	1.61
182	QA	25	DT	O3'-P	8.84	1.74	1.61
198	S8	40	DT	O3'-P	8.84	1.74	1.61
201	SC	2	DA	O3'-P	8.84	1.74	1.61
206	T7	28	DA	O3'-P	8.84	1.74	1.61
208	T9	10	DT	O3'-P	8.84	1.74	1.61
221	V2	13	DA	O3'-P	8.84	1.74	1.61
221	V2	16	DT	O3'-P	8.84	1.74	1.61
226	V9	33	DT	O3'-P	8.84	1.74	1.61
231	W5	30	DT	O3'-P	8.84	1.74	1.61
5	A5	4	DT	O3'-P	8.84	1.74	1.61
7	A7	24	DA	O3'-P	8.84	1.74	1.61
11	AB	368	DT	O3'-P	8.84	1.74	1.61
11	AB	510	DA	O3'-P	8.84	1.74	1.61
11	AB	2377	DA	O3'-P	8.84	1.74	1.61
11	AB	224	DT	O3'-P	8.84	1.74	1.61
11	AB	560	DT	O3'-P	8.84	1.74	1.61
11	AB	1678	DT	O3'-P	8.84	1.74	1.61
11	AB	2246	DA	O3'-P	8.84	1.74	1.61
11	AB	2406	DT	O3'-P	8.84	1.74	1.61
11	AB	2444	DA	O3'-P	8.84	1.74	1.61
11	AB	2759	DA	O3'-P	8.84	1.74	1.61
11	AB	3156	DT	O3'-P	8.84	1.74	1.61
11	AB	696	DT	O3'-P	8.84	1.74	1.61
11	AB	1237	DT	O3'-P	8.84	1.74	1.61
11	AB	1576	DT	O3'-P	8.84	1.74	1.61
11	AB	1687	DT	O3'-P	8.84	1.74	1.61
11	AB	1726	DT	O3'-P	8.84	1.74	1.61
11	AB	1973	DT	O3'-P	8.84	1.74	1.61
11	AB	2429	DT	O3'-P	8.84	1.74	1.61
11	AB	2903	DA	O3'-P	8.84	1.74	1.61
11	AB	3017	DT	O3'-P	8.84	1.74	1.61
11	AB	3182	DT	O3'-P	8.84	1.74	1.61
11	AB	3302	DT	O3'-P	8.84	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3319	DC	O3'-P	8.84	1.74	1.61
11	AB	4872	DT	O3'-P	8.84	1.74	1.61
34	CA	5	DA	O3'-P	8.84	1.74	1.61
105	J3	24	DA	O3'-P	8.84	1.74	1.61
11	AB	3384	DA	O3'-P	8.84	1.74	1.61
11	AB	3815	DA	O3'-P	8.84	1.74	1.61
11	AB	5368	DT	O3'-P	8.84	1.74	1.61
11	AB	5438	DT	O3'-P	8.84	1.74	1.61
11	AB	6162	DT	O3'-P	8.84	1.74	1.61
11	AB	6232	DT	O3'-P	8.84	1.74	1.61
11	AB	6326	DA	O3'-P	8.84	1.74	1.61
11	AB	6472	DA	O3'-P	8.84	1.74	1.61
11	AB	6585	DT	O3'-P	8.84	1.74	1.61
11	AB	6639	DT	O3'-P	8.84	1.74	1.61
11	AB	6884	DT	O3'-P	8.84	1.74	1.61
107	J6	25	DA	O3'-P	8.84	1.74	1.61
108	J7	17	DT	O3'-P	8.84	1.74	1.61
157	O3	20	DT	O3'-P	8.84	1.74	1.61
159	O6	3	DT	O3'-P	8.84	1.74	1.61
160	O7	50	DT	O3'-P	8.84	1.74	1.61
165	OD	47	DT	O3'-P	8.84	1.74	1.61
177	Q3	24	DA	O3'-P	8.84	1.74	1.61
190	R9	21	DT	O3'-P	8.84	1.74	1.61
225	V8	8	DT	O3'-P	8.84	1.74	1.61
11	AB	6496	DT	O3'-P	8.84	1.74	1.61
11	AB	6649	DT	O3'-P	8.84	1.74	1.61
58	ED	41	DT	O3'-P	8.84	1.74	1.61
84	H5	10	DA	O3'-P	8.84	1.74	1.61
104	J2	33	DA	O3'-P	8.84	1.74	1.61
109	J8	38	DA	O3'-P	8.84	1.74	1.61
130	L7	11	DT	O3'-P	8.84	1.74	1.61
145	MD	47	DT	O3'-P	8.84	1.74	1.61
131	L8	14	DT	O3'-P	8.84	1.74	1.61
142	M9	3	DT	O3'-P	8.84	1.74	1.61
146	N2	18	DT	O3'-P	8.84	1.74	1.61
154	NC	36	DT	O3'-P	8.84	1.74	1.61
157	O3	4	DT	O3'-P	8.84	1.74	1.61
165	OD	25	DT	O3'-P	8.84	1.74	1.61
180	Q8	27	DT	O3'-P	8.84	1.74	1.61
190	R9	15	DA	O3'-P	8.84	1.74	1.61
195	S3	18	DA	O3'-P	8.84	1.74	1.61
198	S8	11	DT	O3'-P	8.84	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
198	S8	12	DA	O3'-P	8.84	1.74	1.61
219	UC	28	DA	O3'-P	8.84	1.74	1.61
39	D3	16	DA	O3'-P	8.84	1.74	1.61
53	E7	3	DT	O3'-P	8.84	1.74	1.61
11	AB	172	DT	O3'-P	8.84	1.74	1.61
11	AB	1888	DA	O3'-P	8.84	1.74	1.61
11	AB	1974	DA	O3'-P	8.84	1.74	1.61
44	D9	11	DT	O3'-P	8.84	1.74	1.61
142	M9	14	DT	O3'-P	8.84	1.74	1.61
200	SA	9	DA	O3'-P	8.84	1.74	1.61
237	X7	1	DT	O3'-P	8.84	1.74	1.61
238	X9	30	DA	O3'-P	8.84	1.74	1.61
11	AB	1409	DT	O3'-P	8.84	1.74	1.61
11	AB	1995	DT	O3'-P	8.84	1.74	1.61
11	AB	2087	DT	O3'-P	8.84	1.74	1.61
11	AB	2098	DT	O3'-P	8.84	1.74	1.61
11	AB	2154	DA	O3'-P	8.84	1.74	1.61
11	AB	2676	DT	O3'-P	8.84	1.74	1.61
111	JA	1	DT	O3'-P	8.84	1.74	1.61
167	P3	26	DA	O3'-P	8.84	1.74	1.61
215	U7	4	DT	O3'-P	8.84	1.74	1.61
11	AB	2819	DT	O3'-P	8.84	1.74	1.61
11	AB	3164	DT	O3'-P	8.84	1.74	1.61
11	AB	3199	DA	O3'-P	8.84	1.74	1.61
11	AB	3336	DT	O3'-P	8.84	1.74	1.61
11	AB	3505	DT	O3'-P	8.84	1.74	1.61
11	AB	3760	DT	O3'-P	8.84	1.74	1.61
11	AB	6178	DA	O3'-P	8.84	1.74	1.61
11	AB	3994	DT	O3'-P	8.84	1.74	1.61
11	AB	3996	DT	O3'-P	8.84	1.74	1.61
11	AB	4235	DT	O3'-P	8.84	1.74	1.61
11	AB	4353	DT	O3'-P	8.84	1.74	1.61
154	NC	14	DA	O3'-P	8.84	1.74	1.61
11	AB	5744	DA	O3'-P	8.84	1.74	1.61
11	AB	5819	DT	O3'-P	8.84	1.74	1.61
11	AB	5915	DT	O3'-P	8.84	1.74	1.61
11	AB	6863	DT	O3'-P	8.84	1.74	1.61
132	L9	2	DA	O3'-P	8.84	1.74	1.61
78	GA	9	DT	O3'-P	8.84	1.74	1.61
106	J5	10	DT	O3'-P	8.84	1.74	1.61
119	K7	6	DT	O3'-P	8.84	1.74	1.61
145	MD	10	DT	O3'-P	8.84	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
158	O5	39	DA	O3'-P	8.84	1.74	1.61
177	Q3	12	DT	O3'-P	8.84	1.74	1.61
215	U7	16	DT	O3'-P	8.84	1.74	1.61
11	AB	1537	DT	O3'-P	8.83	1.74	1.61
11	AB	1665	DA	O3'-P	8.83	1.74	1.61
11	AB	3402	DA	O3'-P	8.83	1.74	1.61
11	AB	3831	DT	O3'-P	8.83	1.74	1.61
11	AB	3939	DT	O3'-P	8.83	1.74	1.61
11	AB	5519	DT	O3'-P	8.83	1.74	1.61
11	AB	7067	DT	O3'-P	8.83	1.74	1.61
67	FA	8	DT	O3'-P	8.83	1.74	1.61
147	N3	15	DT	O3'-P	8.83	1.74	1.61
11	AB	1	DA	O3'-P	8.83	1.74	1.61
11	AB	176	DT	O3'-P	8.83	1.74	1.61
11	AB	363	DT	O3'-P	8.83	1.74	1.61
11	AB	602	DT	O3'-P	8.83	1.74	1.61
11	AB	786	DA	O3'-P	8.83	1.74	1.61
11	AB	1329	DT	O3'-P	8.83	1.74	1.61
11	AB	1618	DA	O3'-P	8.83	1.74	1.61
11	AB	1933	DT	O3'-P	8.83	1.74	1.61
11	AB	2198	DT	O3'-P	8.83	1.74	1.61
11	AB	2861	DT	O3'-P	8.83	1.74	1.61
11	AB	2958	DT	O3'-P	8.83	1.74	1.61
11	AB	2979	DT	O3'-P	8.83	1.74	1.61
11	AB	3704	DT	O3'-P	8.83	1.74	1.61
11	AB	4078	DA	O3'-P	8.83	1.74	1.61
11	AB	4798	DT	O3'-P	8.83	1.74	1.61
11	AB	5021	DT	O3'-P	8.83	1.74	1.61
11	AB	5340	DA	O3'-P	8.83	1.74	1.61
11	AB	5361	DA	O3'-P	8.83	1.74	1.61
11	AB	5486	DA	O3'-P	8.83	1.74	1.61
11	AB	5639	DT	O3'-P	8.83	1.74	1.61
11	AB	5643	DA	O3'-P	8.83	1.74	1.61
11	AB	5754	DA	O3'-P	8.83	1.74	1.61
11	AB	6341	DT	O3'-P	8.83	1.74	1.61
11	AB	5779	DT	O3'-P	8.83	1.74	1.61
11	AB	6002	DT	O3'-P	8.83	1.74	1.61
11	AB	6487	DT	O3'-P	8.83	1.74	1.61
11	AB	6575	DT	O3'-P	8.83	1.74	1.61
11	AB	6623	DA	O3'-P	8.83	1.74	1.61
11	AB	6769	DA	O3'-P	8.83	1.74	1.61
11	AB	7046	DT	O3'-P	8.83	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	7062	DT	O3'-P	8.83	1.74	1.61
20	B7	15	DT	O3'-P	8.83	1.74	1.61
36	CD	17	DT	O3'-P	8.83	1.74	1.61
68	FC	15	DT	O3'-P	8.83	1.74	1.61
79	GC	22	DT	O3'-P	8.83	1.74	1.61
21	B8	18	DA	O3'-P	8.83	1.74	1.61
33	C9	17	DA	O3'-P	8.83	1.74	1.61
54	E8	8	DA	O3'-P	8.83	1.74	1.61
62	F5	41	DA	O3'-P	8.83	1.74	1.61
82	H2	9	DA	O3'-P	8.83	1.74	1.61
117	K5	34	DT	O3'-P	8.83	1.74	1.61
121	K9	18	DT	O3'-P	8.83	1.74	1.61
123	KC	13	DT	O3'-P	8.83	1.74	1.61
126	L2	31	DT	O3'-P	8.83	1.74	1.61
130	L7	50	DT	O3'-P	8.83	1.74	1.61
135	LD	18	DA	O3'-P	8.83	1.74	1.61
145	MD	20	DA	O3'-P	8.83	1.74	1.61
147	N3	27	DT	O3'-P	8.83	1.74	1.61
180	Q8	14	DA	O3'-P	8.83	1.74	1.61
183	QC	25	DT	O3'-P	8.83	1.74	1.61
191	RA	19	DT	O3'-P	8.83	1.74	1.61
211	TD	4	DA	O3'-P	8.83	1.74	1.61
211	TD	25	DT	O3'-P	8.83	1.74	1.61
212	U2	21	DT	O3'-P	8.83	1.74	1.61
5	A5	20	DT	O3'-P	8.83	1.74	1.61
11	AB	73	DA	O3'-P	8.83	1.74	1.61
11	AB	392	DT	O3'-P	8.83	1.74	1.61
11	AB	617	DT	O3'-P	8.83	1.74	1.61
11	AB	652	DT	O3'-P	8.83	1.74	1.61
11	AB	1066	DT	O3'-P	8.83	1.74	1.61
11	AB	1496	DT	O3'-P	8.83	1.74	1.61
11	AB	1708	DT	O3'-P	8.83	1.74	1.61
11	AB	2693	DT	O3'-P	8.83	1.74	1.61
11	AB	3032	DT	O3'-P	8.83	1.74	1.61
11	AB	3194	DT	O3'-P	8.83	1.74	1.61
11	AB	6315	DA	O3'-P	8.83	1.74	1.61
11	AB	7023	DA	O3'-P	8.83	1.74	1.61
11	AB	7041	DT	O3'-P	8.83	1.74	1.61
11	AB	7056	DT	O3'-P	8.83	1.74	1.61
57	EC	17	DT	O3'-P	8.83	1.74	1.61
8	A8	26	DT	O3'-P	8.83	1.74	1.61
11	AB	654	DT	O3'-P	8.83	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	784	DT	O3'-P	8.83	1.74	1.61
11	AB	1504	DT	O3'-P	8.83	1.74	1.61
11	AB	1567	DT	O3'-P	8.83	1.74	1.61
11	AB	1890	DA	O3'-P	8.83	1.74	1.61
11	AB	6523	DA	O3'-P	8.83	1.74	1.61
19	B6	10	DT	O3'-P	8.83	1.74	1.61
238	X9	45	DA	O3'-P	8.83	1.74	1.61
11	AB	1955	DT	O3'-P	8.83	1.74	1.61
11	AB	2349	DT	O3'-P	8.83	1.74	1.61
11	AB	2518	DT	O3'-P	8.83	1.74	1.61
11	AB	2597	DT	O3'-P	8.83	1.74	1.61
11	AB	3329	DT	O3'-P	8.83	1.74	1.61
11	AB	3480	DT	O3'-P	8.83	1.74	1.61
11	AB	3522	DT	O3'-P	8.83	1.74	1.61
11	AB	3618	DT	O3'-P	8.83	1.74	1.61
11	AB	3849	DT	O3'-P	8.83	1.74	1.61
11	AB	3930	DT	O3'-P	8.83	1.74	1.61
11	AB	4245	DT	O3'-P	8.83	1.74	1.61
11	AB	4291	DT	O3'-P	8.83	1.74	1.61
11	AB	4393	DA	O3'-P	8.83	1.74	1.61
11	AB	4415	DT	O3'-P	8.83	1.74	1.61
11	AB	4687	DT	O3'-P	8.83	1.74	1.61
11	AB	5319	DT	O3'-P	8.83	1.74	1.61
11	AB	6267	DA	O3'-P	8.83	1.74	1.61
11	AB	6945	DT	O3'-P	8.83	1.74	1.61
18	B5	20	DT	O3'-P	8.83	1.74	1.61
42	D7	10	DT	O3'-P	8.83	1.74	1.61
11	AB	5395	DT	O3'-P	8.83	1.74	1.61
11	AB	5919	DT	O3'-P	8.83	1.74	1.61
11	AB	5937	DT	O3'-P	8.83	1.74	1.61
11	AB	6351	DT	O3'-P	8.83	1.74	1.61
11	AB	7035	DT	O3'-P	8.83	1.74	1.61
11	AB	6738	DT	O3'-P	8.83	1.74	1.61
11	AB	6740	DT	O3'-P	8.83	1.74	1.61
11	AB	7107	DA	O3'-P	8.83	1.74	1.61
12	AC	10	DT	O3'-P	8.83	1.74	1.61
29	C5	1	DT	O3'-P	8.83	1.74	1.61
68	FC	12	DT	O3'-P	8.83	1.74	1.61
69	FD	10	DT	O3'-P	8.83	1.74	1.61
84	H5	17	DA	O3'-P	8.83	1.74	1.61
86	H7	8	DT	O3'-P	8.83	1.74	1.61
89	HA	7	DT	O3'-P	8.83	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
93	I2	11	DT	O3'-P	8.83	1.74	1.61
157	O3	23	DT	O3'-P	8.83	1.74	1.61
98	I8	42	DT	O3'-P	8.83	1.74	1.61
120	K8	12	DT	O3'-P	8.83	1.74	1.61
121	K9	14	DT	O3'-P	8.83	1.74	1.61
124	KD	10	DT	O3'-P	8.83	1.74	1.61
125	L1	38	DT	O3'-P	8.83	1.74	1.61
128	L5	8	DT	O3'-P	8.83	1.74	1.61
135	LD	10	DT	O3'-P	8.83	1.74	1.61
142	M9	10	DT	O3'-P	8.83	1.74	1.61
158	O5	16	DT	O3'-P	8.83	1.74	1.61
171	P8	15	DA	O3'-P	8.83	1.74	1.61
177	Q3	26	DA	O3'-P	8.83	1.74	1.61
216	U8	6	DT	O3'-P	8.83	1.74	1.61
222	V3	5	DA	O3'-P	8.83	1.74	1.61
228	VC	37	DT	O3'-P	8.83	1.74	1.61
231	W5	19	DT	O3'-P	8.83	1.74	1.61
237	X7	10	DT	O3'-P	8.83	1.74	1.61
11	AB	1746	DA	O3'-P	8.83	1.74	1.61
11	AB	1767	DA	O3'-P	8.83	1.74	1.61
11	AB	1826	DT	O3'-P	8.83	1.74	1.61
11	AB	1939	DT	O3'-P	8.83	1.74	1.61
11	AB	2321	DA	O3'-P	8.83	1.74	1.61
11	AB	2421	DT	O3'-P	8.83	1.74	1.61
11	AB	2704	DT	O3'-P	8.83	1.74	1.61
11	AB	2801	DT	O3'-P	8.83	1.74	1.61
11	AB	3852	DT	O3'-P	8.83	1.74	1.61
11	AB	4224	DT	O3'-P	8.83	1.74	1.61
11	AB	4350	DT	O3'-P	8.83	1.74	1.61
11	AB	4875	DT	O3'-P	8.83	1.74	1.61
11	AB	7036	DT	O3'-P	8.83	1.74	1.61
33	C9	25	DA	O3'-P	8.83	1.74	1.61
121	K9	11	DA	O3'-P	8.83	1.74	1.61
11	AB	5564	DA	O3'-P	8.83	1.74	1.61
11	AB	5809	DT	O3'-P	8.83	1.74	1.61
11	AB	6654	DT	O3'-P	8.83	1.74	1.61
11	AB	6970	DA	O3'-P	8.83	1.74	1.61
66	F9	21	DT	O3'-P	8.83	1.74	1.61
91	HD	5	DA	O3'-P	8.83	1.74	1.61
112	JC	15	DT	O3'-P	8.83	1.74	1.61
219	UC	21	DT	O3'-P	8.83	1.74	1.61
11	AB	7121	DA	O3'-P	8.83	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	7211	DA	O3'-P	8.83	1.74	1.61
24	BC	32	DT	O3'-P	8.83	1.74	1.61
32	C8	13	DT	O3'-P	8.83	1.74	1.61
47	DD	22	DT	O3'-P	8.83	1.74	1.61
48	E1	3	DA	O3'-P	8.83	1.74	1.61
51	E5	17	DT	O3'-P	8.83	1.74	1.61
124	KD	8	DT	O3'-P	8.83	1.74	1.61
133	LA	21	DT	O3'-P	8.83	1.74	1.61
158	O5	12	DA	O3'-P	8.83	1.74	1.61
165	OD	3	DA	O3'-P	8.83	1.74	1.61
165	OD	30	DA	O3'-P	8.83	1.74	1.61
179	Q7	9	DA	O3'-P	8.83	1.74	1.61
191	RA	23	DA	O3'-P	8.83	1.74	1.61
192	RC	16	DA	O3'-P	8.83	1.74	1.61
220	UD	3	DT	O3'-P	8.83	1.74	1.61
209	TA	2	DA	O3'-P	8.83	1.74	1.61
210	TC	13	DT	O3'-P	8.83	1.74	1.61
233	W8	5	DA	O3'-P	8.83	1.74	1.61
7	A7	19	DT	O3'-P	8.82	1.74	1.61
11	AB	1689	DT	O3'-P	8.82	1.74	1.61
11	AB	1964	DT	O3'-P	8.82	1.74	1.61
11	AB	609	DT	O3'-P	8.82	1.74	1.61
11	AB	1129	DT	O3'-P	8.82	1.74	1.61
11	AB	1302	DT	O3'-P	8.82	1.74	1.61
11	AB	1397	DT	O3'-P	8.82	1.74	1.61
11	AB	1507	DT	O3'-P	8.82	1.74	1.61
11	AB	1716	DT	O3'-P	8.82	1.74	1.61
11	AB	1865	DA	O3'-P	8.82	1.74	1.61
11	AB	2423	DT	O3'-P	8.82	1.74	1.61
11	AB	4878	DA	O3'-P	8.82	1.74	1.61
30	C6	27	DT	O3'-P	8.82	1.74	1.61
11	AB	1719	DT	O3'-P	8.82	1.74	1.61
11	AB	2086	DT	O3'-P	8.82	1.74	1.61
11	AB	2357	DT	O3'-P	8.82	1.74	1.61
11	AB	2473	DA	O3'-P	8.82	1.74	1.61
11	AB	2858	DT	O3'-P	8.82	1.74	1.61
11	AB	4527	DA	O3'-P	8.82	1.74	1.61
11	AB	3226	DA	O3'-P	8.82	1.74	1.61
11	AB	3257	DA	O3'-P	8.82	1.74	1.61
11	AB	3572	DT	O3'-P	8.82	1.74	1.61
11	AB	5538	DT	O3'-P	8.82	1.74	1.61
11	AB	5580	DT	O3'-P	8.82	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	C5	29	DA	O3'-P	8.82	1.74	1.61
53	E7	5	DT	O3'-P	8.82	1.74	1.61
162	O9	20	DA	O3'-P	8.82	1.74	1.61
11	AB	3581	DA	O3'-P	8.82	1.74	1.61
11	AB	3800	DT	O3'-P	8.82	1.74	1.61
11	AB	4605	DT	O3'-P	8.82	1.74	1.61
11	AB	4797	DT	O3'-P	8.82	1.74	1.61
11	AB	5462	DT	O3'-P	8.82	1.74	1.61
11	AB	5537	DT	O3'-P	8.82	1.74	1.61
11	AB	6365	DA	O3'-P	8.82	1.74	1.61
11	AB	6398	DT	O3'-P	8.82	1.74	1.61
11	AB	7088	DT	O3'-P	8.82	1.74	1.61
18	B5	26	DA	O3'-P	8.82	1.74	1.61
29	C5	7	DA	O3'-P	8.82	1.74	1.61
52	E6	2	DT	O3'-P	8.82	1.74	1.61
63	F6	19	DA	O3'-P	8.82	1.74	1.61
67	FA	25	DT	O3'-P	8.82	1.74	1.61
74	G6	25	DT	O3'-P	8.82	1.74	1.61
77	G9	6	DT	O3'-P	8.82	1.74	1.61
89	HA	16	DT	O3'-P	8.82	1.74	1.61
99	I9	1	DT	O3'-P	8.82	1.74	1.61
117	K5	5	DA	O3'-P	8.82	1.74	1.61
138	M5	39	DT	O3'-P	8.82	1.74	1.61
150	N7	16	DT	O3'-P	8.82	1.74	1.61
152	N9	51	DA	O3'-P	8.82	1.74	1.61
191	RA	28	DT	O3'-P	8.82	1.74	1.61
204	T3	33	DT	O3'-P	8.82	1.74	1.61
207	T8	24	DT	O3'-P	8.82	1.74	1.61
225	V8	16	DT	O3'-P	8.82	1.74	1.61
230	W3	11	DT	O3'-P	8.82	1.74	1.61
231	W5	29	DT	O3'-P	8.82	1.74	1.61
11	AB	170	DA	O3'-P	8.82	1.74	1.61
11	AB	566	DT	O3'-P	8.82	1.74	1.61
11	AB	656	DT	O3'-P	8.82	1.74	1.61
11	AB	1084	DA	O3'-P	8.82	1.74	1.61
11	AB	1680	DT	O3'-P	8.82	1.74	1.61
11	AB	1957	DT	O3'-P	8.82	1.74	1.61
11	AB	2125	DA	O3'-P	8.82	1.74	1.61
11	AB	7092	DT	O3'-P	8.82	1.74	1.61
15	B2	12	DT	O3'-P	8.82	1.74	1.61
24	BC	17	DA	O3'-P	8.82	1.74	1.61
230	W3	26	DT	O3'-P	8.82	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	810	DT	O3'-P	8.82	1.74	1.61
11	AB	1070	DT	O3'-P	8.82	1.74	1.61
11	AB	1148	DT	O3'-P	8.82	1.74	1.61
11	AB	3388	DA	O3'-P	8.82	1.74	1.61
11	AB	4054	DA	O3'-P	8.82	1.74	1.61
11	AB	5291	DT	O3'-P	8.82	1.74	1.61
178	Q5	13	DT	O3'-P	8.82	1.74	1.61
11	AB	1241	DT	O3'-P	8.82	1.74	1.61
11	AB	1934	DT	O3'-P	8.82	1.74	1.61
11	AB	2248	DA	O3'-P	8.82	1.74	1.61
11	AB	3037	DA	O3'-P	8.82	1.74	1.61
11	AB	3058	DA	O3'-P	8.82	1.74	1.61
11	AB	4274	DT	O3'-P	8.82	1.74	1.61
11	AB	4762	DT	O3'-P	8.82	1.74	1.61
11	AB	5612	DA	O3'-P	8.82	1.74	1.61
11	AB	6101	DT	O3'-P	8.82	1.74	1.61
203	T2	15	DT	O3'-P	8.82	1.74	1.61
11	AB	5403	DA	O3'-P	8.82	1.74	1.61
11	AB	5784	DT	O3'-P	8.82	1.74	1.61
11	AB	5790	DT	O3'-P	8.82	1.74	1.61
11	AB	6007	DT	O3'-P	8.82	1.74	1.61
11	AB	6569	DT	O3'-P	8.82	1.74	1.61
11	AB	6598	DT	O3'-P	8.82	1.74	1.61
11	AB	6686	DA	O3'-P	8.82	1.74	1.61
11	AB	7047	DT	O3'-P	8.82	1.74	1.61
11	AB	7063	DT	O3'-P	8.82	1.74	1.61
12	AC	12	DT	O3'-P	8.82	1.74	1.61
23	BA	12	DA	O3'-P	8.82	1.74	1.61
26	C1	15	DT	O3'-P	8.82	1.74	1.61
44	D9	20	DT	O3'-P	8.82	1.74	1.61
47	DD	12	DA	O3'-P	8.82	1.74	1.61
53	E7	9	DT	O3'-P	8.82	1.74	1.61
80	GD	7	DT	O3'-P	8.82	1.74	1.61
89	HA	15	DT	O3'-P	8.82	1.74	1.61
108	J7	43	DT	O3'-P	8.82	1.74	1.61
114	K1	2	DA	O3'-P	8.82	1.74	1.61
114	K1	37	DT	O3'-P	8.82	1.74	1.61
137	M3	27	DT	O3'-P	8.82	1.74	1.61
140	M7	20	DA	O3'-P	8.82	1.74	1.61
168	P5	13	DT	O3'-P	8.82	1.74	1.61
170	P7	8	DT	O3'-P	8.82	1.74	1.61
189	R8	17	DT	O3'-P	8.82	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
191	RA	29	DT	O3'-P	8.82	1.74	1.61
221	V2	23	DT	O3'-P	8.82	1.74	1.61
232	W7	15	DA	O3'-P	8.82	1.74	1.61
11	AB	257	DT	O3'-P	8.82	1.74	1.61
11	AB	1652	DA	O3'-P	8.82	1.74	1.61
11	AB	1793	DA	O3'-P	8.82	1.74	1.61
11	AB	3715	DT	O3'-P	8.82	1.74	1.61
23	BA	25	DT	O3'-P	8.82	1.74	1.61
176	Q2	21	DA	O3'-P	8.82	1.74	1.61
181	Q9	29	DT	O3'-P	8.82	1.74	1.61
11	AB	189	DT	O3'-P	8.82	1.74	1.61
11	AB	974	DT	O3'-P	8.82	1.74	1.61
11	AB	1388	DT	O3'-P	8.82	1.74	1.61
11	AB	2182	DT	O3'-P	8.82	1.74	1.61
11	AB	2463	DA	O3'-P	8.82	1.74	1.61
11	AB	2821	DT	O3'-P	8.82	1.74	1.61
11	AB	2965	DT	O3'-P	8.82	1.74	1.61
11	AB	3094	DA	O3'-P	8.82	1.74	1.61
11	AB	3161	DT	O3'-P	8.82	1.74	1.61
11	AB	3195	DT	O3'-P	8.82	1.74	1.61
11	AB	3751	DA	O3'-P	8.82	1.74	1.61
11	AB	4585	DA	O3'-P	8.82	1.74	1.61
18	B5	19	DT	O3'-P	8.82	1.74	1.61
11	AB	5370	DT	O3'-P	8.82	1.74	1.61
11	AB	5553	DA	O3'-P	8.82	1.74	1.61
11	AB	5665	DA	O3'-P	8.82	1.74	1.61
11	AB	5880	DT	O3'-P	8.82	1.74	1.61
11	AB	7006	DA	O3'-P	8.82	1.74	1.61
40	D5	9	DT	O3'-P	8.82	1.74	1.61
49	E2	9	DT	O3'-P	8.82	1.74	1.61
69	FD	35	DA	O3'-P	8.82	1.74	1.61
132	L9	5	DA	O3'-P	8.82	1.74	1.61
231	W5	28	DT	O3'-P	8.82	1.74	1.61
11	AB	6078	DT	O3'-P	8.82	1.74	1.61
11	AB	6323	DT	O3'-P	8.82	1.74	1.61
11	AB	7075	DT	O3'-P	8.82	1.74	1.61
11	AB	7096	DT	O3'-P	8.82	1.74	1.61
13	AD	23	DT	O3'-P	8.82	1.74	1.61
18	B5	18	DT	O3'-P	8.82	1.74	1.61
20	B7	14	DT	O3'-P	8.82	1.74	1.61
114	K1	13	DT	O3'-P	8.82	1.74	1.61
126	L2	55	DA	O3'-P	8.82	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
133	LA	9	DT	O3'-P	8.82	1.74	1.61
145	MD	34	DT	O3'-P	8.82	1.74	1.61
149	N6	16	DT	O3'-P	8.82	1.74	1.61
154	NC	11	DA	O3'-P	8.82	1.74	1.61
182	QA	27	DT	O3'-P	8.82	1.74	1.61
183	QC	24	DT	O3'-P	8.82	1.74	1.61
193	RD	20	DA	O3'-P	8.82	1.74	1.61
212	U2	23	DT	O3'-P	8.82	1.74	1.61
11	AB	50	DA	O3'-P	8.81	1.74	1.61
11	AB	465	DA	O3'-P	8.81	1.74	1.61
11	AB	632	DT	O3'-P	8.81	1.74	1.61
11	AB	1918	DA	O3'-P	8.81	1.74	1.61
11	AB	3117	DT	O3'-P	8.81	1.74	1.61
11	AB	3763	DC	O3'-P	8.81	1.74	1.61
11	AB	3970	DA	O3'-P	8.81	1.74	1.61
11	AB	4474	DA	O3'-P	8.81	1.74	1.61
145	MD	35	DT	O3'-P	8.81	1.74	1.61
11	AB	239	DT	O3'-P	8.81	1.74	1.61
11	AB	572	DT	O3'-P	8.81	1.74	1.61
11	AB	1120	DT	O3'-P	8.81	1.74	1.61
11	AB	1710	DT	O3'-P	8.81	1.74	1.61
11	AB	1817	DT	O3'-P	8.81	1.74	1.61
11	AB	2290	DA	O3'-P	8.81	1.74	1.61
11	AB	4618	DT	O3'-P	8.81	1.74	1.61
193	RD	14	DA	O3'-P	8.81	1.74	1.61
11	AB	5308	DT	O3'-P	8.81	1.74	1.61
11	AB	5598	DT	O3'-P	8.81	1.74	1.61
11	AB	5820	DT	O3'-P	8.81	1.74	1.61
12	AC	14	DT	O3'-P	8.81	1.74	1.61
32	C8	1	DA	O3'-P	8.81	1.74	1.61
79	GC	19	DT	O3'-P	8.81	1.74	1.61
112	JC	19	DT	O3'-P	8.81	1.74	1.61
115	K2	7	DT	O3'-P	8.81	1.74	1.61
176	Q2	9	DA	O3'-P	8.81	1.74	1.61
198	S8	41	DT	O3'-P	8.81	1.74	1.61
228	VC	19	DC	O3'-P	8.81	1.74	1.61
229	VD	20	DT	O3'-P	8.81	1.74	1.61
5	A5	21	DT	O3'-P	8.81	1.74	1.61
11	AB	1596	DA	O3'-P	8.81	1.74	1.61
11	AB	1843	DT	O3'-P	8.81	1.74	1.61
11	AB	1917	DA	O3'-P	8.81	1.74	1.61
11	AB	1965	DT	O3'-P	8.81	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2335	DT	O3'-P	8.81	1.74	1.61
11	AB	2605	DT	O3'-P	8.81	1.74	1.61
230	W3	29	DA	O3'-P	8.81	1.74	1.61
1	A1	54	DT	O3'-P	8.81	1.74	1.61
8	A8	18	DT	O3'-P	8.81	1.74	1.61
11	AB	1543	DT	O3'-P	8.81	1.74	1.61
11	AB	1682	DT	O3'-P	8.81	1.74	1.61
11	AB	1686	DT	O3'-P	8.81	1.74	1.61
11	AB	1838	DT	O3'-P	8.81	1.74	1.61
11	AB	1852	DG	O3'-P	8.81	1.74	1.61
11	AB	1985	DT	O3'-P	8.81	1.74	1.61
11	AB	2596	DT	O3'-P	8.81	1.74	1.61
11	AB	2963	DT	O3'-P	8.81	1.74	1.61
11	AB	2708	DT	O3'-P	8.81	1.74	1.61
11	AB	3311	DT	O3'-P	8.81	1.74	1.61
11	AB	4045	DA	O3'-P	8.81	1.74	1.61
31	C7	21	DA	O3'-P	8.81	1.74	1.61
11	AB	4387	DA	O3'-P	8.81	1.74	1.61
11	AB	4617	DT	O3'-P	8.81	1.74	1.61
11	AB	5367	DT	O3'-P	8.81	1.74	1.61
11	AB	5523	DT	O3'-P	8.81	1.74	1.61
11	AB	6110	DA	O3'-P	8.81	1.74	1.61
11	AB	6655	DA	O3'-P	8.81	1.74	1.61
11	AB	6668	DT	O3'-P	8.81	1.74	1.61
23	BA	22	DT	O3'-P	8.81	1.74	1.61
26	C1	12	DT	O3'-P	8.81	1.74	1.61
11	AB	6676	DA	O3'-P	8.81	1.74	1.61
11	AB	7095	DT	O3'-P	8.81	1.74	1.61
14	B1	12	DT	O3'-P	8.81	1.74	1.61
53	E7	7	DA	O3'-P	8.81	1.74	1.61
55	E9	6	DT	O3'-P	8.81	1.74	1.61
62	F5	11	DA	O3'-P	8.81	1.74	1.61
104	J2	40	DA	O3'-P	8.81	1.74	1.61
105	J3	13	DT	O3'-P	8.81	1.74	1.61
130	L7	51	DT	O3'-P	8.81	1.74	1.61
145	MD	57	DA	O3'-P	8.81	1.74	1.61
148	N5	31	DA	O3'-P	8.81	1.74	1.61
177	Q3	13	DT	O3'-P	8.81	1.74	1.61
186	R3	8	DA	O3'-P	8.81	1.74	1.61
214	U5	41	DT	O3'-P	8.81	1.74	1.61
149	N6	14	DT	O3'-P	8.81	1.74	1.61
159	O6	18	DA	O3'-P	8.81	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
170	P7	20	DA	O3'-P	8.81	1.74	1.61
223	V5	40	DT	O3'-P	8.81	1.74	1.61
177	Q3	6	DT	O3'-P	8.81	1.74	1.61
181	Q9	3	DA	O3'-P	8.81	1.74	1.61
196	S5	5	DT	O3'-P	8.81	1.74	1.61
201	SC	15	DA	O3'-P	8.81	1.74	1.61
206	T7	26	DT	O3'-P	8.81	1.74	1.61
229	VD	12	DA	O3'-P	8.81	1.74	1.61
233	W8	23	DT	O3'-P	8.81	1.74	1.61
4	A4	20	DT	O3'-P	8.81	1.74	1.61
11	AB	84	DA	O3'-P	8.81	1.74	1.61
11	AB	147	DA	O3'-P	8.81	1.74	1.61
11	AB	986	DA	O3'-P	8.81	1.74	1.61
11	AB	1158	DT	O3'-P	8.81	1.74	1.61
11	AB	59	DA	O3'-P	8.81	1.74	1.61
11	AB	1324	DT	O3'-P	8.81	1.74	1.61
11	AB	1373	DT	O3'-P	8.81	1.74	1.61
11	AB	5444	DT	O3'-P	8.81	1.74	1.61
11	AB	2069	DT	O3'-P	8.81	1.74	1.61
11	AB	2116	DT	O3'-P	8.81	1.74	1.61
11	AB	6584	DT	O3'-P	8.81	1.74	1.61
11	AB	2811	DT	O3'-P	8.81	1.74	1.61
11	AB	3074	DA	O3'-P	8.81	1.74	1.61
11	AB	3101	DA	O3'-P	8.81	1.74	1.61
11	AB	3321	DT	O3'-P	8.81	1.74	1.61
11	AB	3433	DT	O3'-P	8.81	1.74	1.61
11	AB	3557	DT	O3'-P	8.81	1.74	1.61
11	AB	3906	DT	O3'-P	8.81	1.74	1.61
11	AB	4102	DT	O3'-P	8.81	1.74	1.61
11	AB	4434	DT	O3'-P	8.81	1.74	1.61
11	AB	4613	DT	O3'-P	8.81	1.74	1.61
11	AB	5156	DT	O3'-P	8.81	1.74	1.61
18	B5	31	DA	O3'-P	8.81	1.74	1.61
143	MA	28	DA	O3'-P	8.81	1.74	1.61
11	AB	5384	DT	O3'-P	8.81	1.74	1.61
11	AB	5485	DA	O3'-P	8.81	1.74	1.61
11	AB	5933	DA	O3'-P	8.81	1.74	1.61
11	AB	6127	DT	O3'-P	8.81	1.74	1.61
11	AB	7033	DT	O3'-P	8.81	1.74	1.61
11	AB	7097	DT	O3'-P	8.81	1.74	1.61
14	B1	15	DA	O3'-P	8.81	1.74	1.61
94	I3	15	DA	O3'-P	8.81	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
159	O6	2	DT	O3'-P	8.81	1.74	1.61
165	OD	8	DA	O3'-P	8.81	1.74	1.61
214	U5	23	DT	O3'-P	8.81	1.74	1.61
25	BD	18	DT	O3'-P	8.81	1.74	1.61
40	D5	15	DT	O3'-P	8.81	1.74	1.61
46	DC	11	DA	O3'-P	8.81	1.74	1.61
59	F1	14	DA	O3'-P	8.81	1.74	1.61
62	F5	9	DT	O3'-P	8.81	1.74	1.61
71	G2	17	DA	O3'-P	8.81	1.74	1.61
72	G3	16	DT	O3'-P	8.81	1.74	1.61
73	G5	10	DT	O3'-P	8.81	1.74	1.61
111	JA	2	DT	O3'-P	8.81	1.74	1.61
125	L1	46	DT	O3'-P	8.81	1.74	1.61
137	M3	1	DA	O3'-P	8.81	1.74	1.61
178	Q5	1	DA	O3'-P	8.81	1.74	1.61
190	R9	37	DT	O3'-P	8.81	1.74	1.61
192	RC	29	DT	O3'-P	8.81	1.74	1.61
215	U7	9	DT	O3'-P	8.81	1.74	1.61
11	AB	1564	DT	O3'-P	8.81	1.74	1.61
11	AB	252	DT	O3'-P	8.80	1.74	1.61
11	AB	683	DC	O3'-P	8.80	1.74	1.61
11	AB	698	DT	O3'-P	8.80	1.74	1.61
11	AB	1121	DT	O3'-P	8.80	1.74	1.61
11	AB	1711	DT	O3'-P	8.80	1.74	1.61
11	AB	1831	DT	O3'-P	8.80	1.74	1.61
11	AB	2405	DT	O3'-P	8.80	1.74	1.61
11	AB	2503	DT	O3'-P	8.80	1.74	1.61
34	CA	9	DA	O3'-P	8.81	1.74	1.61
11	AB	2508	DT	O3'-P	8.80	1.74	1.61
11	AB	2572	DA	O3'-P	8.80	1.74	1.61
11	AB	2585	DT	O3'-P	8.80	1.74	1.61
11	AB	2632	DA	O3'-P	8.81	1.74	1.61
152	N9	50	DT	O3'-P	8.81	1.74	1.61
11	AB	3202	DA	O3'-P	8.80	1.74	1.61
11	AB	3349	DT	O3'-P	8.80	1.74	1.61
11	AB	3434	DT	O3'-P	8.80	1.74	1.61
11	AB	4223	DT	O3'-P	8.80	1.74	1.61
11	AB	4370	DA	O3'-P	8.80	1.74	1.61
11	AB	5141	DT	O3'-P	8.81	1.74	1.61
11	AB	5803	DT	O3'-P	8.81	1.74	1.61
11	AB	6011	DT	O3'-P	8.80	1.74	1.61
11	AB	6234	DT	O3'-P	8.80	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6361	DA	O3'-P	8.81	1.74	1.61
11	AB	6545	DA	O3'-P	8.80	1.74	1.61
11	AB	6958	DT	O3'-P	8.81	1.74	1.61
13	AD	12	DT	O3'-P	8.80	1.74	1.61
62	F5	36	DT	O3'-P	8.81	1.74	1.61
120	K8	19	DT	O3'-P	8.81	1.74	1.61
198	S8	35	DA	O3'-P	8.81	1.74	1.61
11	AB	3467	DT	O3'-P	8.80	1.74	1.61
11	AB	3506	DT	O3'-P	8.80	1.74	1.61
11	AB	3716	DT	O3'-P	8.80	1.74	1.61
11	AB	3893	DA	O3'-P	8.80	1.74	1.61
11	AB	4326	DT	O3'-P	8.80	1.74	1.61
11	AB	4433	DT	O3'-P	8.80	1.74	1.61
11	AB	5581	DT	O3'-P	8.80	1.74	1.61
11	AB	5799	DC	O3'-P	8.80	1.74	1.61
11	AB	5978	DA	O3'-P	8.80	1.74	1.61
11	AB	6152	DA	O3'-P	8.80	1.74	1.61
11	AB	6184	DT	O3'-P	8.80	1.74	1.61
11	AB	6588	DT	O3'-P	8.80	1.74	1.61
50	E3	13	DA	O3'-P	8.80	1.74	1.61
133	LA	4	DT	O3'-P	8.81	1.74	1.61
145	MD	43	DA	O3'-P	8.80	1.74	1.61
11	AB	6657	DT	O3'-P	8.80	1.74	1.61
11	AB	6681	DA	O3'-P	8.80	1.74	1.61
11	AB	7034	DT	O3'-P	8.80	1.74	1.61
22	B9	26	DA	O3'-P	8.80	1.74	1.61
58	ED	13	DA	O3'-P	8.80	1.74	1.61
69	FD	20	DA	O3'-P	8.80	1.74	1.61
69	FD	27	DT	O3'-P	8.80	1.74	1.61
87	H8	22	DA	O3'-P	8.80	1.74	1.61
92	I1	5	DA	O3'-P	8.80	1.74	1.61
105	J3	18	DT	O3'-P	8.80	1.74	1.61
130	L7	2	DA	O3'-P	8.80	1.74	1.61
189	R8	6	DT	O3'-P	8.80	1.74	1.61
113	JD	36	DA	O3'-P	8.80	1.74	1.61
122	KA	20	DT	O3'-P	8.80	1.74	1.61
127	L3	8	DA	O3'-P	8.80	1.74	1.61
131	L8	21	DA	O3'-P	8.81	1.74	1.61
136	M2	9	DA	O3'-P	8.80	1.74	1.61
165	OD	2	DA	O3'-P	8.80	1.74	1.61
168	P5	16	DT	O3'-P	8.81	1.74	1.61
176	Q2	22	DA	O3'-P	8.80	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
190	R9	24	DT	O3'-P	8.80	1.74	1.61
209	TA	36	DA	O3'-P	8.80	1.74	1.61
227	VA	25	DT	O3'-P	8.80	1.74	1.61
135	LD	14	DA	O3'-P	8.80	1.74	1.61
140	M7	25	DA	O3'-P	8.80	1.74	1.61
141	M8	5	DA	O3'-P	8.80	1.74	1.61
195	S3	15	DA	O3'-P	8.80	1.74	1.61
212	U2	8	DA	O3'-P	8.80	1.74	1.61
11	AB	466	DA	O3'-P	8.80	1.74	1.61
11	AB	620	DT	O3'-P	8.80	1.74	1.61
11	AB	1313	DT	O3'-P	8.80	1.74	1.61
11	AB	1545	DT	O3'-P	8.80	1.74	1.61
11	AB	1566	DT	O3'-P	8.80	1.74	1.61
11	AB	3327	DT	O3'-P	8.80	1.74	1.61
11	AB	3331	DT	O3'-P	8.80	1.74	1.61
11	AB	3365	DA	O3'-P	8.80	1.74	1.61
11	AB	3786	DT	O3'-P	8.80	1.74	1.61
70	G1	1	DT	O3'-P	8.80	1.74	1.61
138	M5	33	DA	O3'-P	8.80	1.74	1.61
11	AB	3135	DT	O3'-P	8.80	1.74	1.61
11	AB	3297	DT	O3'-P	8.80	1.74	1.61
11	AB	3624	DT	O3'-P	8.80	1.74	1.61
11	AB	5076	DT	O3'-P	8.80	1.74	1.61
11	AB	5284	DT	O3'-P	8.80	1.74	1.61
11	AB	5394	DT	O3'-P	8.80	1.74	1.61
11	AB	5731	DT	O3'-P	8.80	1.74	1.61
11	AB	5994	DT	O3'-P	8.80	1.74	1.61
11	AB	6035	DA	O3'-P	8.80	1.74	1.61
11	AB	6258	DT	O3'-P	8.80	1.74	1.61
11	AB	6626	DA	O3'-P	8.80	1.74	1.61
11	AB	7143	DA	O3'-P	8.80	1.74	1.61
62	F5	22	DT	O3'-P	8.80	1.74	1.61
22	B9	51	DA	O3'-P	8.80	1.74	1.61
41	D6	31	DT	O3'-P	8.80	1.74	1.61
43	D8	45	DT	O3'-P	8.80	1.74	1.61
52	E6	34	DC	O3'-P	8.80	1.74	1.61
64	F7	10	DA	O3'-P	8.80	1.74	1.61
72	G3	5	DT	O3'-P	8.80	1.74	1.61
130	L7	15	DA	O3'-P	8.80	1.74	1.61
138	M5	26	DT	O3'-P	8.80	1.74	1.61
81	H1	15	DA	O3'-P	8.80	1.74	1.61
83	H3	20	DA	O3'-P	8.80	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
110	J9	5	DT	O3'-P	8.80	1.74	1.61
112	JC	20	DT	O3'-P	8.80	1.74	1.61
114	K1	6	DA	O3'-P	8.80	1.74	1.61
116	K3	17	DA	O3'-P	8.80	1.74	1.61
120	K8	14	DC	O3'-P	8.80	1.74	1.61
137	M3	6	DA	O3'-P	8.80	1.74	1.61
144	MC	16	DT	O3'-P	8.80	1.74	1.61
172	P9	7	DA	O3'-P	8.80	1.74	1.61
173	PA	30	DA	O3'-P	8.80	1.74	1.61
192	RC	30	DT	O3'-P	8.80	1.74	1.61
217	U9	26	DT	O3'-P	8.80	1.74	1.61
11	AB	88	DA	O3'-P	8.80	1.74	1.61
11	AB	787	DA	O3'-P	8.80	1.74	1.61
11	AB	2097	DT	O3'-P	8.80	1.74	1.61
11	AB	830	DC	O3'-P	8.80	1.74	1.61
11	AB	2814	DT	O3'-P	8.80	1.74	1.61
11	AB	2847	DT	O3'-P	8.80	1.74	1.61
11	AB	3067	DA	O3'-P	8.80	1.74	1.61
11	AB	6237	DT	O3'-P	8.80	1.74	1.61
86	H7	18	DT	O3'-P	8.80	1.74	1.61
11	AB	4208	DA	O3'-P	8.80	1.74	1.61
11	AB	4414	DT	O3'-P	8.80	1.74	1.61
11	AB	4769	DT	O3'-P	8.80	1.74	1.61
11	AB	5022	DT	O3'-P	8.80	1.74	1.61
11	AB	5711	DT	O3'-P	8.80	1.74	1.61
11	AB	5714	DT	O3'-P	8.80	1.74	1.61
11	AB	6302	DT	O3'-P	8.80	1.74	1.61
124	KD	9	DT	O3'-P	8.80	1.74	1.61
175	PD	18	DC	O3'-P	8.80	1.74	1.61
11	AB	6777	DA	O3'-P	8.80	1.74	1.61
11	AB	7111	DA	O3'-P	8.80	1.74	1.61
30	C6	5	DA	O3'-P	8.80	1.74	1.61
79	GC	24	DC	O3'-P	8.80	1.74	1.61
83	H3	33	DA	O3'-P	8.80	1.74	1.61
89	HA	18	DT	O3'-P	8.80	1.74	1.61
104	J2	19	DT	O3'-P	8.80	1.74	1.61
157	O3	14	DA	O3'-P	8.80	1.74	1.61
171	P8	9	DT	O3'-P	8.80	1.74	1.61
178	Q5	16	DA	O3'-P	8.80	1.74	1.61
223	V5	35	DT	O3'-P	8.80	1.74	1.61
194	S2	19	DA	O3'-P	8.80	1.74	1.61
203	T2	17	DA	O3'-P	8.80	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
233	W8	11	DA	O3'-P	8.80	1.74	1.61
216	U8	1	DT	O3'-P	8.80	1.74	1.61
3	A3	4	DT	O3'-P	8.79	1.74	1.61
11	AB	699	DT	O3'-P	8.80	1.74	1.61
7	A7	21	DA	O3'-P	8.79	1.74	1.61
11	AB	157	DA	O3'-P	8.79	1.74	1.61
11	AB	1063	DA	O3'-P	8.79	1.74	1.61
11	AB	1514	DA	O3'-P	8.79	1.74	1.61
11	AB	2051	DT	O3'-P	8.79	1.74	1.61
11	AB	3249	DA	O3'-P	8.79	1.74	1.61
11	AB	4237	DT	O3'-P	8.79	1.74	1.61
11	AB	5348	DT	O3'-P	8.79	1.74	1.61
11	AB	5352	DA	O3'-P	8.79	1.74	1.61
11	AB	5377	DT	O3'-P	8.79	1.74	1.61
11	AB	5724	DT	O3'-P	8.79	1.74	1.61
11	AB	6975	DA	O3'-P	8.79	1.74	1.61
55	E9	35	DA	O3'-P	8.79	1.74	1.61
94	I3	3	DT	O3'-P	8.80	1.74	1.61
114	K1	33	DA	O3'-P	8.79	1.74	1.61
119	K7	24	DT	O3'-P	8.79	1.74	1.61
121	K9	17	DT	O3'-P	8.79	1.74	1.61
130	L7	13	DT	O3'-P	8.79	1.74	1.61
142	M9	13	DT	O3'-P	8.79	1.74	1.61
159	O6	13	DA	O3'-P	8.80	1.74	1.61
164	OC	21	DA	O3'-P	8.79	1.74	1.61
166	P2	29	DC	O3'-P	8.79	1.74	1.61
173	PA	12	DA	O3'-P	8.79	1.74	1.61
176	Q2	6	DA	O3'-P	8.79	1.74	1.61
180	Q8	7	DA	O3'-P	8.79	1.74	1.61
194	S2	23	DA	O3'-P	8.79	1.74	1.61
198	S8	22	DA	O3'-P	8.79	1.74	1.61
11	AB	1133	DT	O3'-P	8.79	1.74	1.61
11	AB	1575	DT	O3'-P	8.79	1.74	1.61
11	AB	2666	DA	O3'-P	8.79	1.74	1.61
11	AB	3971	DA	O3'-P	8.79	1.74	1.61
158	O5	46	DA	O3'-P	8.79	1.74	1.61
11	AB	2703	DT	O3'-P	8.79	1.74	1.61
11	AB	2777	DA	O3'-P	8.79	1.74	1.61
11	AB	5466	DT	O3'-P	8.79	1.74	1.61
11	AB	5561	DA	O3'-P	8.79	1.74	1.61
11	AB	5776	DA	O3'-P	8.79	1.74	1.61
88	H9	7	DT	O3'-P	8.79	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
126	L2	26	DC	O3'-P	8.79	1.74	1.61
198	S8	21	DA	O3'-P	8.79	1.74	1.61
146	N2	23	DC	O3'-P	8.79	1.74	1.61
190	R9	5	DT	O3'-P	8.79	1.74	1.61
11	AB	380	DT	O3'-P	8.79	1.74	1.61
11	AB	4316	DT	O3'-P	8.79	1.74	1.61
11	AB	4804	DT	O3'-P	8.79	1.74	1.61
11	AB	6388	DA	O3'-P	8.79	1.74	1.61
11	AB	6425	DT	O3'-P	8.79	1.74	1.61
62	F5	30	DT	O3'-P	8.79	1.74	1.61
11	AB	132	DT	O3'-P	8.79	1.74	1.61
11	AB	221	DT	O3'-P	8.79	1.74	1.61
11	AB	382	DT	O3'-P	8.79	1.74	1.61
11	AB	1334	DC	O3'-P	8.79	1.74	1.61
11	AB	1503	DT	O3'-P	8.79	1.74	1.61
24	BC	35	DT	O3'-P	8.79	1.74	1.61
11	AB	388	DT	O3'-P	8.79	1.74	1.61
11	AB	1539	DT	O3'-P	8.79	1.74	1.61
11	AB	7115	DT	O3'-P	8.79	1.74	1.61
190	R9	38	DT	O3'-P	8.79	1.74	1.61
11	AB	1761	DA	O3'-P	8.79	1.74	1.61
11	AB	2007	DA	O3'-P	8.79	1.74	1.61
11	AB	3071	DA	O3'-P	8.79	1.74	1.61
11	AB	3339	DC	O3'-P	8.79	1.74	1.61
11	AB	3735	DA	O3'-P	8.79	1.74	1.61
11	AB	4317	DT	O3'-P	8.79	1.74	1.61
11	AB	5882	DT	O3'-P	8.79	1.74	1.61
11	AB	6287	DA	O3'-P	8.79	1.74	1.61
11	AB	6536	DA	O3'-P	8.79	1.74	1.61
34	CA	4	DA	O3'-P	8.79	1.74	1.61
49	E2	20	DA	O3'-P	8.79	1.74	1.61
52	E6	11	DA	O3'-P	8.79	1.74	1.61
143	MA	16	DT	O3'-P	8.79	1.74	1.61
198	S8	43	DT	O3'-P	8.79	1.74	1.61
214	U5	32	DA	O3'-P	8.79	1.74	1.61
238	X9	28	DA	O3'-P	8.79	1.74	1.61
11	AB	267	DA	O3'-P	8.79	1.74	1.61
11	AB	1003	DA	O3'-P	8.79	1.74	1.61
11	AB	1170	DA	O3'-P	8.79	1.74	1.61
11	AB	1869	DA	O3'-P	8.79	1.74	1.61
11	AB	2075	DA	O3'-P	8.79	1.74	1.61
11	AB	2731	DA	O3'-P	8.79	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2895	DA	O3'-P	8.79	1.74	1.61
11	AB	2912	DA	O3'-P	8.79	1.74	1.61
11	AB	3972	DA	O3'-P	8.79	1.74	1.61
11	AB	6682	DA	O3'-P	8.79	1.74	1.61
11	AB	3571	DT	O3'-P	8.78	1.74	1.61
11	AB	3592	DA	O3'-P	8.79	1.74	1.61
11	AB	4371	DA	O3'-P	8.79	1.74	1.61
11	AB	5263	DA	O3'-P	8.79	1.74	1.61
11	AB	5666	DA	O3'-P	8.79	1.74	1.61
11	AB	6055	DA	O3'-P	8.79	1.74	1.61
11	AB	6967	DA	O3'-P	8.79	1.74	1.61
11	AB	7022	DA	O3'-P	8.79	1.74	1.61
55	E9	26	DA	O3'-P	8.79	1.74	1.61
98	I8	7	DA	O3'-P	8.79	1.74	1.61
108	J7	39	DA	O3'-P	8.79	1.74	1.61
126	L2	22	DT	O3'-P	8.79	1.74	1.61
11	AB	6048	DA	O3'-P	8.78	1.74	1.61
52	E6	1	DT	O3'-P	8.78	1.74	1.61
113	JD	6	DA	O3'-P	8.79	1.74	1.61
113	JD	18	DA	O3'-P	8.79	1.74	1.61
165	OD	41	DA	O3'-P	8.79	1.74	1.61
176	Q2	7	DA	O3'-P	8.79	1.74	1.61
194	S2	6	DA	O3'-P	8.79	1.74	1.61
209	TA	37	DA	O3'-P	8.79	1.74	1.61
212	U2	7	DA	O3'-P	8.79	1.74	1.61
232	W7	8	DA	O3'-P	8.79	1.74	1.61
117	K5	14	DT	O3'-P	8.78	1.74	1.61
138	M5	40	DT	O3'-P	8.78	1.74	1.61
140	M7	23	DA	O3'-P	8.78	1.74	1.61
153	NA	18	DA	O3'-P	8.79	1.74	1.61
166	P2	32	DC	O3'-P	8.78	1.74	1.61
176	Q2	8	DA	O3'-P	8.78	1.74	1.61
179	Q7	15	DA	O3'-P	8.78	1.74	1.61
202	SD	8	DA	O3'-P	8.78	1.74	1.61
209	TA	19	DT	O3'-P	8.78	1.74	1.61
11	AB	1453	DA	O3'-P	8.78	1.74	1.61
11	AB	3545	DA	O3'-P	8.78	1.74	1.61
6	A6	26	DA	O3'-P	8.78	1.74	1.61
11	AB	2370	DA	O3'-P	8.78	1.74	1.61
11	AB	2411	DT	O3'-P	8.78	1.74	1.61
11	AB	3224	DT	O3'-P	8.78	1.74	1.61
11	AB	3884	DA	O3'-P	8.78	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4697	DA	O3'-P	8.78	1.74	1.61
11	AB	5406	DA	O3'-P	8.78	1.74	1.61
91	HD	13	DT	O3'-P	8.78	1.74	1.61
181	Q9	4	DA	O3'-P	8.78	1.74	1.61
184	QD	24	DA	O3'-P	8.78	1.74	1.61
198	S8	10	DT	O3'-P	8.78	1.74	1.61
201	SC	16	DA	O3'-P	8.78	1.74	1.61
234	W9	3	DA	O3'-P	8.78	1.74	1.61
8	A8	27	DT	O3'-P	8.78	1.74	1.61
11	AB	1846	DT	O3'-P	8.78	1.74	1.61
11	AB	2101	DT	O3'-P	8.78	1.74	1.61
11	AB	995	DA	O3'-P	8.78	1.74	1.61
11	AB	1533	DT	O3'-P	8.78	1.74	1.61
11	AB	3014	DT	O3'-P	8.78	1.74	1.61
11	AB	3594	DA	O3'-P	8.78	1.74	1.61
11	AB	3617	DT	O3'-P	8.78	1.74	1.61
11	AB	4560	DA	O3'-P	8.78	1.74	1.61
11	AB	4586	DA	O3'-P	8.78	1.74	1.61
11	AB	4751	DT	O3'-P	8.78	1.74	1.61
34	CA	7	DA	O3'-P	8.78	1.74	1.61
191	RA	22	DA	O3'-P	8.78	1.74	1.61
237	X7	22	DT	O3'-P	8.78	1.74	1.61
11	AB	5171	DA	O3'-P	8.78	1.74	1.61
11	AB	5950	DA	O3'-P	8.78	1.74	1.61
11	AB	6599	DT	O3'-P	8.78	1.74	1.61
11	AB	6925	DA	O3'-P	8.78	1.74	1.61
11	AB	7220	DT	O3'-P	8.78	1.74	1.61
22	B9	25	DA	O3'-P	8.78	1.74	1.61
25	BD	13	DA	O3'-P	8.78	1.74	1.61
125	L1	30	DT	O3'-P	8.78	1.74	1.61
184	QD	26	DA	O3'-P	8.78	1.74	1.61
41	D6	10	DA	O3'-P	8.78	1.74	1.61
61	F3	11	DA	O3'-P	8.78	1.74	1.61
69	FD	4	DA	O3'-P	8.78	1.74	1.61
81	H1	16	DA	O3'-P	8.78	1.74	1.61
82	H2	23	DA	O3'-P	8.78	1.74	1.61
85	H6	32	DA	O3'-P	8.78	1.74	1.61
121	K9	10	DA	O3'-P	8.78	1.74	1.61
148	N5	33	DT	O3'-P	8.78	1.74	1.61
155	ND	8	DA	O3'-P	8.78	1.74	1.61
174	PC	16	DA	O3'-P	8.78	1.74	1.61
202	SD	28	DT	O3'-P	8.78	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
226	V9	1	DA	O3'-P	8.78	1.74	1.61
121	K9	12	DA	O3'-P	8.78	1.74	1.61
217	U9	8	DC	O3'-P	8.78	1.74	1.61
5	A5	17	DT	O3'-P	8.78	1.74	1.61
11	AB	254	DT	O3'-P	8.78	1.74	1.61
11	AB	1413	DA	O3'-P	8.78	1.74	1.61
11	AB	1483	DA	O3'-P	8.78	1.74	1.61
11	AB	1513	DT	O3'-P	8.78	1.74	1.61
11	AB	3078	DA	O3'-P	8.78	1.74	1.61
11	AB	3193	DT	O3'-P	8.78	1.74	1.61
11	AB	3198	DA	O3'-P	8.78	1.74	1.61
11	AB	3280	DT	O3'-P	8.78	1.74	1.61
47	DD	31	DA	O3'-P	8.78	1.74	1.61
83	H3	32	DA	O3'-P	8.78	1.74	1.61
11	AB	3745	DA	O3'-P	8.78	1.74	1.61
11	AB	4780	DA	O3'-P	8.78	1.74	1.61
11	AB	4894	DA	O3'-P	8.78	1.74	1.61
11	AB	5667	DA	O3'-P	8.78	1.74	1.61
11	AB	5911	DA	O3'-P	8.78	1.74	1.61
11	AB	6407	DC	O3'-P	8.78	1.74	1.61
11	AB	7236	DC	O3'-P	8.78	1.74	1.61
17	B4	6	DT	O3'-P	8.78	1.74	1.61
28	C3	11	DA	O3'-P	8.78	1.74	1.61
29	C5	24	DT	O3'-P	8.78	1.74	1.61
48	E1	28	DA	O3'-P	8.78	1.74	1.61
102	ID	19	DA	O3'-P	8.78	1.74	1.61
107	J6	13	DA	O3'-P	8.78	1.74	1.61
151	N8	6	DC	O3'-P	8.78	1.74	1.61
160	O7	30	DC	O3'-P	8.78	1.74	1.61
6	A6	11	DA	O3'-P	8.77	1.74	1.61
11	AB	97	DA	O3'-P	8.77	1.74	1.61
11	AB	610	DT	O3'-P	8.77	1.74	1.61
11	AB	1764	DA	O3'-P	8.77	1.74	1.61
1	A1	46	DA	O3'-P	8.77	1.74	1.61
8	A8	12	DT	O3'-P	8.77	1.74	1.61
11	AB	996	DA	O3'-P	8.77	1.74	1.61
11	AB	1139	DT	O3'-P	8.77	1.74	1.61
11	AB	1186	DA	O3'-P	8.77	1.74	1.61
11	AB	1873	DT	O3'-P	8.77	1.74	1.61
11	AB	1895	DC	O3'-P	8.77	1.74	1.61
11	AB	3027	DT	O3'-P	8.77	1.74	1.61
11	AB	2010	DA	O3'-P	8.77	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2304	DA	O3'-P	8.77	1.74	1.61
11	AB	3281	DT	O3'-P	8.77	1.74	1.61
11	AB	3712	DC	O3'-P	8.77	1.74	1.61
11	AB	4429	DC	O3'-P	8.77	1.74	1.61
44	D9	8	DT	O3'-P	8.77	1.74	1.61
49	E2	36	DA	O3'-P	8.77	1.74	1.61
75	G7	12	DT	O3'-P	8.77	1.74	1.61
196	S5	25	DT	O3'-P	8.77	1.74	1.61
11	AB	2233	DT	O3'-P	8.77	1.74	1.61
11	AB	2471	DA	O3'-P	8.77	1.74	1.61
11	AB	2776	DA	O3'-P	8.77	1.74	1.61
11	AB	3079	DA	O3'-P	8.77	1.74	1.61
11	AB	3217	DA	O3'-P	8.77	1.74	1.61
11	AB	3736	DA	O3'-P	8.77	1.74	1.61
11	AB	4578	DA	O3'-P	8.77	1.74	1.61
11	AB	5332	DA	O3'-P	8.77	1.74	1.61
156	O2	20	DA	O3'-P	8.77	1.74	1.61
11	AB	4222	DT	O3'-P	8.77	1.74	1.61
11	AB	5841	DA	O3'-P	8.77	1.74	1.61
11	AB	6109	DA	O3'-P	8.77	1.74	1.61
11	AB	6691	DA	O3'-P	8.77	1.74	1.61
23	BA	19	DA	O3'-P	8.77	1.74	1.61
129	L6	11	DA	O3'-P	8.77	1.74	1.61
102	ID	18	DA	O3'-P	8.77	1.74	1.61
136	M2	14	DA	O3'-P	8.77	1.74	1.61
145	MD	5	DA	O3'-P	8.77	1.74	1.61
190	R9	34	DT	O3'-P	8.77	1.74	1.61
206	T7	48	DA	O3'-P	8.77	1.74	1.61
228	VC	3	DA	O3'-P	8.77	1.74	1.61
171	P8	21	DT	O3'-P	8.77	1.74	1.61
192	RC	13	DA	O3'-P	8.77	1.74	1.61
11	AB	5363	DT	O3'-P	8.77	1.74	1.61
3	A3	7	DC	O3'-P	8.77	1.74	1.61
11	AB	71	DA	O3'-P	8.77	1.74	1.61
11	AB	72	DA	O3'-P	8.77	1.74	1.61
11	AB	83	DA	O3'-P	8.77	1.74	1.61
11	AB	2472	DA	O3'-P	8.77	1.74	1.61
11	AB	3416	DA	O3'-P	8.77	1.74	1.61
11	AB	3593	DA	O3'-P	8.77	1.74	1.61
11	AB	4252	DC	O3'-P	8.77	1.74	1.61
11	AB	4015	DA	O3'-P	8.77	1.74	1.61
11	AB	4475	DA	O3'-P	8.77	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4989	DA	O3'-P	8.77	1.74	1.61
11	AB	5056	DA	O3'-P	8.77	1.74	1.61
11	AB	5089	DT	O3'-P	8.77	1.74	1.61
11	AB	5336	DA	O3'-P	8.77	1.74	1.61
11	AB	5649	DA	O3'-P	8.77	1.74	1.61
11	AB	5694	DG	O3'-P	8.77	1.74	1.61
11	AB	5730	DT	O3'-P	8.77	1.74	1.61
11	AB	6442	DA	O3'-P	8.77	1.74	1.61
11	AB	5952	DT	O3'-P	8.77	1.74	1.61
11	AB	6213	DA	O3'-P	8.77	1.74	1.61
11	AB	6544	DA	O3'-P	8.77	1.74	1.61
11	AB	7008	DA	O3'-P	8.77	1.74	1.61
11	AB	7073	DC	O3'-P	8.77	1.74	1.61
11	AB	7124	DA	O3'-P	8.77	1.74	1.61
21	B8	17	DA	O3'-P	8.77	1.74	1.61
32	C8	51	DT	O3'-P	8.77	1.74	1.61
11	AB	7126	DA	O3'-P	8.77	1.74	1.61
23	BA	11	DA	O3'-P	8.77	1.74	1.61
24	BC	24	DA	O3'-P	8.77	1.74	1.61
38	D2	7	DA	O3'-P	8.77	1.74	1.61
51	E5	29	DA	O3'-P	8.77	1.74	1.61
59	F1	15	DA	O3'-P	8.77	1.74	1.61
66	F9	9	DA	O3'-P	8.77	1.74	1.61
106	J5	17	DA	O3'-P	8.77	1.74	1.61
141	M8	23	DA	O3'-P	8.77	1.74	1.61
158	O5	10	DA	O3'-P	8.77	1.74	1.61
158	O5	38	DA	O3'-P	8.77	1.74	1.61
176	Q2	5	DA	O3'-P	8.77	1.74	1.61
186	R3	9	DA	O3'-P	8.77	1.74	1.61
198	S8	20	DA	O3'-P	8.77	1.74	1.61
238	X9	51	DA	O3'-P	8.77	1.74	1.61
1	A1	43	DA	O3'-P	8.77	1.74	1.61
11	AB	6508	DT	O3'-P	8.77	1.74	1.61
25	BD	15	DA	O3'-P	8.77	1.74	1.61
161	O8	45	DA	O3'-P	8.77	1.74	1.61
5	A5	13	DT	O3'-P	8.77	1.74	1.61
11	AB	110	DA	O3'-P	8.77	1.74	1.61
11	AB	513	DA	O3'-P	8.77	1.74	1.61
130	L7	47	DA	O3'-P	8.77	1.74	1.61
11	AB	551	DA	O3'-P	8.77	1.74	1.61
11	AB	1880	DA	O3'-P	8.77	1.74	1.61
11	AB	2347	DT	O3'-P	8.77	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5910	DA	O3'-P	8.77	1.74	1.61
76	G8	10	DA	O3'-P	8.77	1.74	1.61
205	T5	11	DA	O3'-P	8.77	1.74	1.61
11	AB	3216	DA	O3'-P	8.77	1.74	1.61
11	AB	4318	DT	O3'-P	8.77	1.74	1.61
11	AB	4498	DA	O3'-P	8.77	1.74	1.61
11	AB	4749	DA	O3'-P	8.77	1.74	1.61
11	AB	5648	DA	O3'-P	8.77	1.74	1.61
11	AB	5931	DT	O3'-P	8.77	1.74	1.61
16	B3	14	DT	O3'-P	8.77	1.74	1.61
22	B9	32	DC	O3'-P	8.77	1.74	1.61
32	C8	6	DA	O3'-P	8.77	1.74	1.61
32	C8	20	DA	O3'-P	8.77	1.74	1.61
73	G5	18	DA	O3'-P	8.77	1.74	1.61
97	I7	17	DA	O3'-P	8.77	1.74	1.61
106	J5	18	DA	O3'-P	8.77	1.74	1.61
115	K2	34	DA	O3'-P	8.77	1.74	1.61
119	K7	15	DA	O3'-P	8.77	1.74	1.61
149	N6	27	DA	O3'-P	8.77	1.74	1.61
150	N7	1	DT	O3'-P	8.77	1.74	1.61
212	U2	25	DC	O3'-P	8.77	1.74	1.61
228	VC	18	DC	O3'-P	8.77	1.74	1.61
11	AB	156	DA	O3'-P	8.76	1.74	1.61
11	AB	268	DA	O3'-P	8.76	1.74	1.61
11	AB	459	DG	O3'-P	8.76	1.74	1.61
11	AB	6252	DC	O3'-P	8.76	1.74	1.61
140	M7	24	DA	O3'-P	8.76	1.74	1.61
9	A9	15	DT	O3'-P	8.76	1.74	1.61
11	AB	753	DA	O3'-P	8.76	1.74	1.61
11	AB	985	DA	O3'-P	8.76	1.74	1.61
11	AB	3397	DT	O3'-P	8.76	1.74	1.61
11	AB	3788	DT	O3'-P	8.76	1.74	1.61
11	AB	6673	DT	O3'-P	8.76	1.74	1.61
43	D8	20	DC	O3'-P	8.76	1.74	1.61
11	AB	3876	DA	O3'-P	8.76	1.74	1.61
11	AB	3981	DA	O3'-P	8.76	1.74	1.61
11	AB	4030	DT	O3'-P	8.76	1.74	1.61
11	AB	5195	DA	O3'-P	8.76	1.74	1.61
11	AB	5647	DA	O3'-P	8.76	1.74	1.61
11	AB	5752	DT	O3'-P	8.76	1.74	1.61
11	AB	5974	DA	O3'-P	8.76	1.74	1.61
11	AB	6515	DA	O3'-P	8.76	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6667	DT	O3'-P	8.76	1.74	1.61
11	AB	6990	DT	O3'-P	8.76	1.74	1.61
14	B1	16	DA	O3'-P	8.76	1.74	1.61
18	B5	23	DA	O3'-P	8.76	1.74	1.61
28	C3	10	DA	O3'-P	8.76	1.74	1.61
35	CC	23	DA	O3'-P	8.76	1.74	1.61
87	H8	7	DT	O3'-P	8.76	1.74	1.61
101	IC	8	DT	O3'-P	8.76	1.74	1.61
41	D6	42	DA	O3'-P	8.76	1.74	1.61
50	E3	9	DA	O3'-P	8.76	1.74	1.61
75	G7	20	DA	O3'-P	8.76	1.74	1.61
101	IC	14	DA	O3'-P	8.76	1.74	1.61
103	J1	5	DA	O3'-P	8.76	1.74	1.61
113	JD	22	DT	O3'-P	8.76	1.74	1.61
145	MD	1	DA	O3'-P	8.76	1.74	1.61
146	N2	9	DA	O3'-P	8.76	1.74	1.61
148	N5	19	DA	O3'-P	8.76	1.74	1.61
153	NA	10	DA	O3'-P	8.76	1.74	1.61
161	O8	39	DA	O3'-P	8.76	1.74	1.61
176	Q2	18	DA	O3'-P	8.76	1.74	1.61
185	R2	9	DA	O3'-P	8.76	1.74	1.61
189	R8	15	DC	O3'-P	8.76	1.74	1.61
189	R8	37	DC	O3'-P	8.76	1.74	1.61
191	RA	12	DC	O3'-P	8.76	1.74	1.61
224	V7	5	DC	O3'-P	8.76	1.74	1.61
233	W8	9	DA	O3'-P	8.76	1.74	1.61
11	AB	570	DC	O3'-P	8.76	1.74	1.61
11	AB	1127	DC	O3'-P	8.76	1.74	1.61
11	AB	1423	DA	O3'-P	8.76	1.74	1.61
11	AB	2948	DA	O3'-P	8.76	1.74	1.61
11	AB	3538	DA	O3'-P	8.76	1.74	1.61
11	AB	3883	DA	O3'-P	8.76	1.74	1.61
11	AB	4023	DA	O3'-P	8.76	1.74	1.61
11	AB	4050	DA	O3'-P	8.76	1.74	1.61
11	AB	5055	DA	O3'-P	8.76	1.74	1.61
11	AB	2320	DA	O3'-P	8.76	1.74	1.61
11	AB	2939	DC	O3'-P	8.76	1.74	1.61
11	AB	3828	DT	O3'-P	8.76	1.74	1.61
11	AB	4167	DC	O3'-P	8.76	1.74	1.61
11	AB	4283	DG	O3'-P	8.76	1.74	1.61
11	AB	5250	DA	O3'-P	8.76	1.74	1.61
11	AB	5326	DA	O3'-P	8.76	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	B3	19	DT	O3'-P	8.76	1.74	1.61
29	C5	37	DT	O3'-P	8.76	1.74	1.61
98	I8	14	DA	O3'-P	8.76	1.74	1.61
181	Q9	5	DA	O3'-P	8.76	1.74	1.61
201	SC	13	DA	O3'-P	8.76	1.74	1.61
210	TC	19	DA	O3'-P	8.76	1.74	1.61
55	E9	33	DT	O3'-P	8.76	1.74	1.61
58	ED	11	DC	O3'-P	8.76	1.74	1.61
84	H5	4	DT	O3'-P	8.76	1.74	1.61
97	I7	16	DA	O3'-P	8.76	1.74	1.61
113	JD	35	DA	O3'-P	8.76	1.74	1.61
114	K1	29	DA	O3'-P	8.76	1.74	1.61
129	L6	8	DT	O3'-P	8.76	1.74	1.61
129	L6	15	DA	O3'-P	8.76	1.74	1.61
138	M5	9	DT	O3'-P	8.76	1.74	1.61
201	SC	7	DA	O3'-P	8.76	1.74	1.61
135	LD	20	DA	O3'-P	8.76	1.74	1.61
145	MD	6	DA	O3'-P	8.76	1.74	1.61
148	N5	27	DA	O3'-P	8.76	1.74	1.61
150	N7	18	DC	O3'-P	8.76	1.74	1.61
162	O9	21	DA	O3'-P	8.76	1.74	1.61
208	T9	19	DT	O3'-P	8.76	1.74	1.61
211	TD	3	DA	O3'-P	8.76	1.74	1.61
7	A7	29	DT	O3'-P	8.76	1.74	1.61
11	AB	352	DA	O3'-P	8.76	1.74	1.61
11	AB	1261	DA	O3'-P	8.76	1.74	1.61
11	AB	1350	DT	O3'-P	8.76	1.74	1.61
11	AB	1698	DT	O3'-P	8.76	1.74	1.61
11	AB	1795	DT	O3'-P	8.76	1.74	1.61
11	AB	2305	DA	O3'-P	8.76	1.74	1.61
11	AB	3597	DA	O3'-P	8.76	1.74	1.61
11	AB	5393	DT	O3'-P	8.76	1.74	1.61
22	B9	42	DC	O3'-P	8.76	1.74	1.61
98	I8	18	DA	O3'-P	8.76	1.74	1.61
11	AB	3343	DC	O3'-P	8.76	1.74	1.61
11	AB	4134	DC	O3'-P	8.76	1.74	1.61
11	AB	4895	DA	O3'-P	8.76	1.74	1.61
11	AB	4905	DT	O3'-P	8.76	1.74	1.61
24	BC	13	DA	O3'-P	8.76	1.74	1.61
38	D2	4	DA	O3'-P	8.76	1.74	1.61
125	L1	31	DT	O3'-P	8.76	1.74	1.61
11	AB	6321	DT	O3'-P	8.76	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	7218	DC	O3'-P	8.76	1.74	1.61
77	G9	11	DC	O3'-P	8.76	1.74	1.61
89	HA	29	DA	O3'-P	8.76	1.74	1.61
94	I3	7	DT	O3'-P	8.76	1.74	1.61
206	T7	46	DT	O3'-P	8.76	1.74	1.61
93	I2	33	DT	O3'-P	8.76	1.74	1.61
106	J5	31	DC	O3'-P	8.76	1.74	1.61
106	J5	35	DA	O3'-P	8.76	1.74	1.61
152	N9	32	DA	O3'-P	8.76	1.74	1.61
159	O6	21	DA	O3'-P	8.76	1.74	1.61
164	OC	15	DC	O3'-P	8.76	1.74	1.61
195	S3	16	DA	O3'-P	8.76	1.74	1.61
211	TD	31	DA	O3'-P	8.76	1.74	1.61
151	N8	5	DC	O3'-P	8.76	1.74	1.61
154	NC	18	DT	O3'-P	8.76	1.74	1.61
178	Q5	17	DA	O3'-P	8.76	1.74	1.61
179	Q7	23	DC	O3'-P	8.76	1.74	1.61
190	R9	2	DT	O3'-P	8.76	1.74	1.61
196	S5	10	DA	O3'-P	8.76	1.74	1.61
205	T5	12	DA	O3'-P	8.76	1.74	1.61
228	VC	15	DA	O3'-P	8.76	1.74	1.61
230	W3	2	DT	O3'-P	8.76	1.74	1.61
230	W3	6	DC	O3'-P	8.76	1.74	1.61
232	W7	9	DA	O3'-P	8.76	1.74	1.61
236	X5	12	DA	O3'-P	8.76	1.74	1.61
238	X9	40	DT	O3'-P	8.76	1.74	1.61
2	A2	18	DT	O3'-P	8.75	1.74	1.61
11	AB	68	DA	O3'-P	8.75	1.74	1.61
11	AB	552	DA	O3'-P	8.75	1.74	1.61
11	AB	3082	DA	O3'-P	8.75	1.74	1.61
82	H2	51	DA	O3'-P	8.75	1.74	1.61
6	A6	12	DA	O3'-P	8.75	1.74	1.61
11	AB	10	DT	O3'-P	8.75	1.74	1.61
11	AB	1002	DA	O3'-P	8.75	1.74	1.61
11	AB	1033	DA	O3'-P	8.75	1.74	1.61
11	AB	1792	DA	O3'-P	8.75	1.74	1.61
11	AB	1919	DA	O3'-P	8.75	1.74	1.61
11	AB	2219	DA	O3'-P	8.75	1.74	1.61
11	AB	6044	DA	O3'-P	8.75	1.74	1.61
14	B1	24	DA	O3'-P	8.75	1.74	1.61
21	B8	6	DT	O3'-P	8.75	1.74	1.61
21	B8	23	DT	O3'-P	8.75	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
131	L8	20	DA	O3'-P	8.75	1.74	1.61
189	R8	13	DT	O3'-P	8.75	1.74	1.61
195	S3	17	DA	O3'-P	8.75	1.74	1.61
229	VD	13	DA	O3'-P	8.75	1.74	1.61
11	AB	2957	DT	O3'-P	8.75	1.74	1.61
11	AB	3239	DA	O3'-P	8.75	1.74	1.61
11	AB	3372	DA	O3'-P	8.75	1.74	1.61
11	AB	4911	DA	O3'-P	8.75	1.74	1.61
11	AB	5834	DT	O3'-P	8.75	1.74	1.61
11	AB	6199	DA	O3'-P	8.75	1.74	1.61
11	AB	7106	DA	O3'-P	8.75	1.74	1.61
11	AB	7127	DA	O3'-P	8.75	1.74	1.61
35	CC	20	DA	O3'-P	8.75	1.74	1.61
43	D8	26	DC	O3'-P	8.75	1.74	1.61
47	DD	44	DC	O3'-P	8.75	1.74	1.61
90	HC	9	DC	O3'-P	8.75	1.74	1.61
95	I5	19	DA	O3'-P	8.75	1.74	1.61
102	ID	9	DT	O3'-P	8.75	1.74	1.61
131	L8	19	DA	O3'-P	8.75	1.74	1.61
135	LD	12	DC	O3'-P	8.75	1.74	1.61
148	N5	26	DA	O3'-P	8.75	1.74	1.61
158	O5	9	DA	O3'-P	8.75	1.74	1.61
165	OD	40	DA	O3'-P	8.75	1.74	1.61
190	R9	14	DA	O3'-P	8.75	1.74	1.61
200	SA	14	DC	O3'-P	8.75	1.74	1.61
205	T5	10	DA	O3'-P	8.75	1.74	1.61
82	H2	41	DA	O3'-P	8.75	1.74	1.61
3	A3	8	DC	O3'-P	8.75	1.74	1.61
6	A6	7	DA	O3'-P	8.75	1.74	1.61
11	AB	1296	DT	O3'-P	8.75	1.74	1.61
11	AB	1741	DT	O3'-P	8.75	1.74	1.61
11	AB	2163	DA	O3'-P	8.75	1.74	1.61
11	AB	3548	DT	O3'-P	8.75	1.74	1.61
75	G7	27	DC	O3'-P	8.75	1.74	1.61
201	SC	14	DA	O3'-P	8.75	1.74	1.61
11	AB	131	DT	O3'-P	8.75	1.74	1.61
11	AB	353	DA	O3'-P	8.75	1.74	1.61
11	AB	1584	DT	O3'-P	8.75	1.74	1.61
11	AB	1623	DC	O3'-P	8.75	1.74	1.61
11	AB	2386	DA	O3'-P	8.75	1.74	1.61
11	AB	3031	DT	O3'-P	8.75	1.74	1.61
11	AB	3073	DA	O3'-P	8.75	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3209	DT	O3'-P	8.75	1.74	1.61
11	AB	3734	DA	O3'-P	8.75	1.74	1.61
11	AB	4564	DC	O3'-P	8.75	1.74	1.61
11	AB	4908	DC	O3'-P	8.75	1.74	1.61
11	AB	5343	DA	O3'-P	8.75	1.74	1.61
11	AB	5668	DA	O3'-P	8.75	1.74	1.61
11	AB	6009	DT	O3'-P	8.75	1.74	1.61
102	ID	28	DA	O3'-P	8.75	1.74	1.61
126	L2	6	DA	O3'-P	8.75	1.74	1.61
11	AB	5888	DA	O3'-P	8.75	1.74	1.61
11	AB	6390	DA	O3'-P	8.75	1.74	1.61
30	C6	34	DA	O3'-P	8.75	1.74	1.61
33	C9	23	DA	O3'-P	8.75	1.74	1.61
53	E7	23	DA	O3'-P	8.75	1.74	1.61
70	G1	18	DA	O3'-P	8.75	1.74	1.61
76	G8	9	DA	O3'-P	8.75	1.74	1.61
83	H3	12	DA	O3'-P	8.75	1.74	1.61
85	H6	33	DA	O3'-P	8.75	1.74	1.61
97	I7	18	DA	O3'-P	8.75	1.74	1.61
102	ID	15	DT	O3'-P	8.75	1.74	1.61
108	J7	40	DA	O3'-P	8.75	1.74	1.61
122	KA	22	DA	O3'-P	8.75	1.74	1.61
126	L2	37	DA	O3'-P	8.75	1.74	1.61
126	L2	49	DA	O3'-P	8.75	1.74	1.61
129	L6	12	DA	O3'-P	8.75	1.74	1.61
137	M3	2	DA	O3'-P	8.75	1.74	1.61
135	LD	6	DG	O3'-P	8.75	1.74	1.61
145	MD	7	DA	O3'-P	8.75	1.74	1.61
173	PA	33	DA	O3'-P	8.75	1.74	1.61
175	PD	12	DA	O3'-P	8.75	1.74	1.61
178	Q5	40	DA	O3'-P	8.75	1.74	1.61
181	Q9	35	DT	O3'-P	8.75	1.74	1.61
228	VC	10	DT	O3'-P	8.75	1.74	1.61
233	W8	10	DA	O3'-P	8.75	1.74	1.61
238	X9	15	DA	O3'-P	8.75	1.74	1.61
238	X9	29	DA	O3'-P	8.75	1.74	1.61
11	AB	4509	DG	O3'-P	8.75	1.74	1.61
11	AB	6859	DC	O3'-P	8.75	1.74	1.61
11	AB	235	DC	O3'-P	8.75	1.74	1.61
11	AB	318	DA	O3'-P	8.75	1.74	1.61
11	AB	6509	DT	O3'-P	8.75	1.74	1.61
153	NA	19	DA	O3'-P	8.75	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	376	DT	O3'-P	8.75	1.74	1.61
11	AB	640	DG	O3'-P	8.75	1.74	1.61
11	AB	1434	DT	O3'-P	8.75	1.74	1.61
11	AB	3103	DT	O3'-P	8.75	1.74	1.61
11	AB	2047	DT	O3'-P	8.75	1.74	1.61
11	AB	2396	DT	O3'-P	8.75	1.74	1.61
11	AB	2891	DT	O3'-P	8.75	1.74	1.61
11	AB	3520	DG	O3'-P	8.75	1.74	1.61
11	AB	4260	DC	O3'-P	8.75	1.74	1.61
70	G1	11	DA	O3'-P	8.75	1.74	1.61
145	MD	29	DT	O3'-P	8.75	1.74	1.61
11	AB	3585	DC	O3'-P	8.75	1.74	1.61
11	AB	3737	DA	O3'-P	8.75	1.74	1.61
11	AB	6463	DG	O3'-P	8.75	1.74	1.61
25	BD	14	DA	O3'-P	8.75	1.74	1.61
35	CC	24	DA	O3'-P	8.75	1.74	1.61
54	E8	24	DT	O3'-P	8.75	1.74	1.61
62	F5	26	DA	O3'-P	8.75	1.74	1.61
71	G2	16	DA	O3'-P	8.75	1.74	1.61
85	H6	9	DC	O3'-P	8.75	1.74	1.61
74	G6	17	DA	O3'-P	8.75	1.74	1.61
92	I1	11	DA	O3'-P	8.75	1.74	1.61
122	KA	23	DA	O3'-P	8.75	1.74	1.61
126	L2	56	DA	O3'-P	8.75	1.74	1.61
137	M3	19	DA	O3'-P	8.75	1.74	1.61
153	NA	11	DA	O3'-P	8.75	1.74	1.61
167	P3	11	DA	O3'-P	8.75	1.74	1.61
173	PA	9	DC	O3'-P	8.75	1.74	1.61
174	PC	15	DA	O3'-P	8.75	1.74	1.61
179	Q7	8	DA	O3'-P	8.75	1.74	1.61
214	U5	33	DA	O3'-P	8.75	1.74	1.61
228	VC	27	DT	O3'-P	8.75	1.74	1.61
11	AB	1239	DC	O3'-P	8.74	1.74	1.61
11	AB	1635	DT	O3'-P	8.74	1.74	1.61
11	AB	2074	DA	O3'-P	8.74	1.74	1.61
11	AB	2133	DT	O3'-P	8.74	1.74	1.61
11	AB	2464	DA	O3'-P	8.74	1.74	1.61
11	AB	2548	DT	O3'-P	8.74	1.74	1.61
11	AB	2721	DT	O3'-P	8.74	1.74	1.61
11	AB	2904	DT	O3'-P	8.74	1.74	1.61
11	AB	4916	DA	O3'-P	8.74	1.74	1.61
11	AB	6697	DA	O3'-P	8.74	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
106	J5	23	DC	O3'-P	8.74	1.74	1.61
116	K3	20	DC	O3'-P	8.74	1.74	1.61
4	A4	29	DT	O3'-P	8.74	1.74	1.61
11	AB	2946	DA	O3'-P	8.74	1.74	1.61
11	AB	6204	DT	O3'-P	8.74	1.74	1.61
11	AB	6980	DC	O3'-P	8.74	1.74	1.61
22	B9	5	DC	O3'-P	8.74	1.74	1.61
33	C9	24	DA	O3'-P	8.74	1.74	1.61
93	I2	6	DA	O3'-P	8.74	1.74	1.61
224	V7	18	DT	O3'-P	8.74	1.74	1.61
8	A8	21	DC	O3'-P	8.74	1.74	1.61
11	AB	754	DA	O3'-P	8.74	1.74	1.61
11	AB	1617	DA	O3'-P	8.74	1.74	1.61
11	AB	1760	DA	O3'-P	8.74	1.74	1.61
11	AB	3265	DA	O3'-P	8.74	1.74	1.61
11	AB	4128	DC	O3'-P	8.74	1.74	1.61
11	AB	5043	DA	O3'-P	8.74	1.74	1.61
11	AB	5159	DC	O3'-P	8.74	1.74	1.61
11	AB	5595	DC	O3'-P	8.74	1.74	1.61
11	AB	5905	DT	O3'-P	8.74	1.74	1.61
11	AB	6921	DA	O3'-P	8.74	1.74	1.61
162	O9	16	DC	O3'-P	8.74	1.74	1.61
195	S3	12	DT	O3'-P	8.74	1.74	1.61
11	AB	5318	DT	O3'-P	8.74	1.74	1.61
11	AB	6296	DA	O3'-P	8.74	1.74	1.61
20	B7	5	DT	O3'-P	8.74	1.74	1.61
41	D6	40	DT	O3'-P	8.74	1.74	1.61
98	I8	17	DA	O3'-P	8.74	1.74	1.61
104	J2	39	DA	O3'-P	8.74	1.74	1.61
106	J5	36	DA	O3'-P	8.74	1.74	1.61
129	L6	7	DT	O3'-P	8.74	1.74	1.61
161	O8	40	DA	O3'-P	8.74	1.74	1.61
178	Q5	6	DC	O3'-P	8.74	1.74	1.61
190	R9	26	DA	O3'-P	8.74	1.74	1.61
211	TD	5	DT	O3'-P	8.74	1.74	1.61
229	VD	11	DA	O3'-P	8.74	1.74	1.61
230	W3	43	DA	O3'-P	8.74	1.74	1.61
1	A1	2	DA	O3'-P	8.74	1.74	1.61
5	A5	31	DC	O3'-P	8.74	1.74	1.61
11	AB	276	DA	O3'-P	8.74	1.74	1.61
11	AB	297	DA	O3'-P	8.74	1.74	1.61
11	AB	1273	DT	O3'-P	8.74	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6380	DC	O3'-P	8.74	1.74	1.61
45	DA	15	DC	O3'-P	8.74	1.74	1.61
95	I5	27	DA	O3'-P	8.74	1.74	1.61
223	V5	28	DA	O3'-P	8.74	1.74	1.61
11	AB	1377	DT	O3'-P	8.74	1.74	1.61
11	AB	2385	DA	O3'-P	8.74	1.74	1.61
11	AB	2575	DT	O3'-P	8.74	1.74	1.61
11	AB	2727	DA	O3'-P	8.74	1.74	1.61
11	AB	2778	DA	O3'-P	8.74	1.74	1.61
11	AB	2924	DC	O3'-P	8.74	1.74	1.61
11	AB	4298	DC	O3'-P	8.74	1.74	1.61
11	AB	4562	DA	O3'-P	8.74	1.74	1.61
11	AB	4954	DT	O3'-P	8.74	1.74	1.61
29	C5	11	DA	O3'-P	8.74	1.74	1.61
150	N7	10	DC	O3'-P	8.74	1.74	1.61
177	Q3	23	DA	O3'-P	8.74	1.74	1.61
11	AB	2947	DA	O3'-P	8.74	1.74	1.61
11	AB	3250	DA	O3'-P	8.74	1.74	1.61
11	AB	3273	DA	O3'-P	8.74	1.74	1.61
11	AB	3791	DT	O3'-P	8.74	1.74	1.61
11	AB	4022	DA	O3'-P	8.74	1.74	1.61
11	AB	4575	DC	O3'-P	8.74	1.74	1.61
11	AB	4962	DA	O3'-P	8.74	1.74	1.61
11	AB	5591	DC	O3'-P	8.74	1.74	1.61
11	AB	5957	DA	O3'-P	8.74	1.74	1.61
11	AB	6197	DT	O3'-P	8.74	1.74	1.61
11	AB	6847	DC	O3'-P	8.74	1.74	1.61
29	C5	12	DA	O3'-P	8.74	1.74	1.61
85	H6	3	DA	O3'-P	8.74	1.74	1.61
114	K1	32	DA	O3'-P	8.74	1.74	1.61
157	O3	13	DA	O3'-P	8.74	1.74	1.61
189	R8	33	DT	O3'-P	8.74	1.74	1.61
210	TC	20	DA	O3'-P	8.74	1.74	1.61
11	AB	7164	DC	O3'-P	8.74	1.74	1.61
19	B6	5	DA	O3'-P	8.74	1.74	1.61
19	B6	19	DA	O3'-P	8.74	1.74	1.61
31	C7	1	DA	O3'-P	8.74	1.74	1.61
53	E7	6	DT	O3'-P	8.74	1.74	1.61
69	FD	19	DA	O3'-P	8.74	1.74	1.61
83	H3	31	DA	O3'-P	8.74	1.74	1.61
132	L9	6	DA	O3'-P	8.74	1.74	1.61
132	L9	9	DA	O3'-P	8.74	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
137	M3	3	DA	O3'-P	8.74	1.74	1.61
147	N3	17	DC	O3'-P	8.74	1.74	1.61
191	RA	10	DC	O3'-P	8.74	1.74	1.61
236	X5	13	DA	O3'-P	8.74	1.74	1.61
11	AB	119	DT	O3'-P	8.74	1.74	1.61
11	AB	135	DT	O3'-P	8.74	1.74	1.61
11	AB	747	DA	O3'-P	8.74	1.74	1.61
11	AB	756	DT	O3'-P	8.74	1.74	1.61
11	AB	1889	DA	O3'-P	8.74	1.74	1.61
11	AB	3049	DA	O3'-P	8.74	1.74	1.61
11	AB	6625	DA	O3'-P	8.74	1.74	1.61
160	O7	6	DA	O3'-P	8.74	1.74	1.61
162	O9	14	DA	O3'-P	8.74	1.74	1.61
11	AB	957	DG	O3'-P	8.74	1.74	1.61
11	AB	1291	DA	O3'-P	8.74	1.74	1.61
11	AB	2008	DA	O3'-P	8.74	1.74	1.61
11	AB	2274	DC	O3'-P	8.74	1.74	1.61
11	AB	3256	DA	O3'-P	8.74	1.74	1.61
11	AB	4163	DC	O3'-P	8.74	1.74	1.61
11	AB	4181	DT	O3'-P	8.74	1.74	1.61
11	AB	5697	DT	O3'-P	8.74	1.74	1.61
11	AB	4591	DC	O3'-P	8.74	1.74	1.61
11	AB	5435	DT	O3'-P	8.74	1.74	1.61
11	AB	5490	DC	O3'-P	8.74	1.74	1.61
11	AB	6112	DC	O3'-P	8.74	1.74	1.61
11	AB	6781	DA	O3'-P	8.74	1.74	1.61
11	AB	6915	DC	O3'-P	8.74	1.74	1.61
11	AB	7125	DA	O3'-P	8.74	1.74	1.61
37	D1	40	DA	O3'-P	8.74	1.74	1.61
68	FC	1	DA	O3'-P	8.74	1.74	1.61
40	D5	21	DT	O3'-P	8.74	1.74	1.61
50	E3	7	DT	O3'-P	8.74	1.74	1.61
56	EA	6	DT	O3'-P	8.74	1.74	1.61
156	O2	15	DA	O3'-P	8.74	1.74	1.61
69	FD	34	DA	O3'-P	8.74	1.74	1.61
82	H2	18	DC	O3'-P	8.74	1.74	1.61
84	H5	15	DT	O3'-P	8.74	1.74	1.61
121	K9	28	DA	O3'-P	8.74	1.74	1.61
146	N2	11	DT	O3'-P	8.74	1.74	1.61
158	O5	11	DA	O3'-P	8.74	1.74	1.61
161	O8	44	DA	O3'-P	8.74	1.74	1.61
165	OD	37	DA	O3'-P	8.74	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
167	P3	22	DC	O3'-P	8.74	1.74	1.61
176	Q2	16	DT	O3'-P	8.74	1.74	1.61
178	Q5	5	DG	O3'-P	8.74	1.74	1.61
190	R9	1	DT	O3'-P	8.74	1.74	1.61
190	R9	17	DA	O3'-P	8.74	1.74	1.61
219	UC	10	DT	O3'-P	8.74	1.74	1.61
222	V3	8	DT	O3'-P	8.74	1.74	1.61
227	VA	28	DT	O3'-P	8.74	1.74	1.61
229	VD	3	DC	O3'-P	8.74	1.74	1.61
230	W3	20	DA	O3'-P	8.74	1.74	1.61
11	AB	515	DC	O3'-P	8.73	1.74	1.61
11	AB	1803	DG	O3'-P	8.73	1.74	1.61
11	AB	2735	DT	O3'-P	8.73	1.74	1.61
11	AB	1205	DT	O3'-P	8.73	1.74	1.61
11	AB	1487	DT	O3'-P	8.73	1.74	1.61
11	AB	2469	DT	O3'-P	8.73	1.74	1.61
11	AB	4791	DC	O3'-P	8.73	1.74	1.61
11	AB	5030	DT	O3'-P	8.73	1.74	1.61
11	AB	5335	DA	O3'-P	8.73	1.74	1.61
106	J5	16	DA	O3'-P	8.73	1.74	1.61
11	AB	5984	DC	O3'-P	8.73	1.74	1.61
11	AB	7051	DC	O3'-P	8.73	1.74	1.61
18	B5	5	DC	O3'-P	8.73	1.74	1.61
26	C1	23	DT	O3'-P	8.73	1.74	1.61
110	J9	18	DG	O3'-P	8.73	1.74	1.61
158	O5	42	DA	O3'-P	8.73	1.74	1.61
205	T5	3	DC	O3'-P	8.73	1.74	1.61
219	UC	5	DC	O3'-P	8.73	1.74	1.61
6	A6	29	DC	O3'-P	8.73	1.74	1.61
11	AB	111	DA	O3'-P	8.73	1.74	1.61
11	AB	153	DA	O3'-P	8.73	1.74	1.61
11	AB	414	DG	O3'-P	8.73	1.74	1.61
11	AB	1900	DA	O3'-P	8.73	1.74	1.61
11	AB	2938	DC	O3'-P	8.73	1.74	1.61
11	AB	4914	DT	O3'-P	8.73	1.74	1.61
11	AB	6613	DC	O3'-P	8.73	1.74	1.61
100	IA	17	DA	O3'-P	8.73	1.74	1.61
232	W7	7	DA	O3'-P	8.73	1.74	1.61
238	X9	1	DC	O3'-P	8.73	1.74	1.61
11	AB	331	DT	O3'-P	8.73	1.74	1.61
11	AB	506	DT	O3'-P	8.73	1.74	1.61
11	AB	783	DT	O3'-P	8.73	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1211	DT	O3'-P	8.73	1.74	1.61
11	AB	1664	DA	O3'-P	8.73	1.74	1.61
11	AB	1747	DT	O3'-P	8.73	1.74	1.61
11	AB	2009	DA	O3'-P	8.73	1.74	1.61
11	AB	2164	DA	O3'-P	8.73	1.74	1.61
11	AB	2054	DC	O3'-P	8.73	1.74	1.61
11	AB	2280	DC	O3'-P	8.73	1.74	1.61
11	AB	2324	DA	O3'-P	8.73	1.74	1.61
11	AB	2436	DC	O3'-P	8.73	1.74	1.61
11	AB	3205	DA	O3'-P	8.73	1.74	1.61
11	AB	3536	DT	O3'-P	8.73	1.74	1.61
11	AB	3591	DA	O3'-P	8.73	1.74	1.61
11	AB	3747	DT	O3'-P	8.73	1.74	1.61
11	AB	4241	DG	O3'-P	8.73	1.74	1.61
11	AB	4324	DC	O3'-P	8.73	1.74	1.61
11	AB	4893	DA	O3'-P	8.73	1.74	1.61
11	AB	6074	DC	O3'-P	8.73	1.74	1.61
11	AB	6225	DT	O3'-P	8.73	1.74	1.61
11	AB	6710	DT	O3'-P	8.73	1.74	1.61
17	B4	12	DC	O3'-P	8.73	1.74	1.61
30	C6	1	DA	O3'-P	8.73	1.74	1.61
32	C8	50	DT	O3'-P	8.73	1.74	1.61
37	D1	39	DA	O3'-P	8.73	1.74	1.61
49	E2	21	DT	O3'-P	8.73	1.74	1.61
59	F1	10	DC	O3'-P	8.73	1.74	1.61
62	F5	28	DT	O3'-P	8.73	1.74	1.61
81	H1	18	DT	O3'-P	8.73	1.74	1.61
87	H8	25	DA	O3'-P	8.73	1.74	1.61
94	I3	30	DA	O3'-P	8.73	1.74	1.61
104	J2	23	DA	O3'-P	8.73	1.74	1.61
108	J7	1	DA	O3'-P	8.73	1.74	1.61
95	I5	1	DA	O3'-P	8.73	1.74	1.61
107	J6	8	DA	O3'-P	8.73	1.74	1.61
124	KD	17	DA	O3'-P	8.73	1.74	1.61
125	L1	8	DA	O3'-P	8.73	1.74	1.61
126	L2	54	DA	O3'-P	8.73	1.74	1.61
143	MA	46	DC	O3'-P	8.73	1.74	1.61
152	N9	13	DT	O3'-P	8.73	1.74	1.61
163	OA	10	DC	O3'-P	8.73	1.74	1.61
167	P3	25	DA	O3'-P	8.73	1.74	1.61
172	P9	8	DA	O3'-P	8.73	1.74	1.61
179	Q7	26	DA	O3'-P	8.73	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
181	Q9	9	DT	O3'-P	8.73	1.74	1.61
191	RA	21	DA	O3'-P	8.73	1.74	1.61
227	VA	16	DC	O3'-P	8.73	1.74	1.61
228	VC	31	DC	O3'-P	8.73	1.74	1.61
11	AB	378	DC	O3'-P	8.73	1.74	1.61
11	AB	684	DC	O3'-P	8.73	1.74	1.61
11	AB	1123	DC	O3'-P	8.73	1.74	1.61
11	AB	1369	DC	O3'-P	8.73	1.74	1.61
11	AB	1744	DT	O3'-P	8.73	1.74	1.61
11	AB	1779	DT	O3'-P	8.73	1.74	1.61
11	AB	2459	DT	O3'-P	8.73	1.74	1.61
11	AB	2908	DA	O3'-P	8.73	1.74	1.61
11	AB	5354	DT	O3'-P	8.73	1.74	1.61
14	B1	25	DA	O3'-P	8.73	1.74	1.61
56	EA	13	DT	O3'-P	8.73	1.74	1.61
104	J2	7	DC	O3'-P	8.73	1.74	1.61
166	P2	30	DC	O3'-P	8.73	1.74	1.61
9	A9	3	DT	O3'-P	8.73	1.74	1.61
11	AB	46	DA	O3'-P	8.73	1.74	1.61
11	AB	106	DA	O3'-P	8.73	1.74	1.61
11	AB	154	DA	O3'-P	8.73	1.74	1.61
11	AB	1657	DC	O3'-P	8.73	1.74	1.61
11	AB	3550	DT	O3'-P	8.73	1.74	1.61
11	AB	1035	DA	O3'-P	8.73	1.74	1.61
11	AB	1203	DA	O3'-P	8.73	1.74	1.61
11	AB	1740	DT	O3'-P	8.73	1.74	1.61
11	AB	2779	DA	O3'-P	8.73	1.74	1.61
11	AB	3414	DG	O3'-P	8.73	1.74	1.61
11	AB	4065	DC	O3'-P	8.73	1.74	1.61
11	AB	4705	DC	O3'-P	8.73	1.74	1.61
11	AB	5362	DT	O3'-P	8.73	1.74	1.61
11	AB	6393	DT	O3'-P	8.73	1.74	1.61
160	O7	29	DC	O3'-P	8.73	1.74	1.61
180	Q8	12	DC	O3'-P	8.73	1.74	1.61
11	AB	4652	DA	O3'-P	8.73	1.74	1.61
11	AB	5526	DC	O3'-P	8.73	1.74	1.61
11	AB	5774	DT	O3'-P	8.73	1.74	1.61
11	AB	5894	DT	O3'-P	8.73	1.74	1.61
11	AB	6335	DC	O3'-P	8.73	1.74	1.61
11	AB	6529	DA	O3'-P	8.73	1.74	1.61
11	AB	6757	DT	O3'-P	8.73	1.74	1.61
11	AB	6974	DA	O3'-P	8.73	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	AD	35	DT	O3'-P	8.73	1.74	1.61
26	C1	8	DA	O3'-P	8.73	1.74	1.61
26	C1	9	DA	O3'-P	8.73	1.74	1.61
37	D1	4	DT	O3'-P	8.73	1.74	1.61
71	G2	18	DA	O3'-P	8.73	1.74	1.61
131	L8	22	DA	O3'-P	8.73	1.74	1.61
141	M8	7	DA	O3'-P	8.73	1.74	1.61
166	P2	31	DC	O3'-P	8.73	1.74	1.61
217	U9	13	DT	O3'-P	8.73	1.74	1.61
11	AB	7001	DT	O3'-P	8.73	1.74	1.61
22	B9	15	DC	O3'-P	8.73	1.74	1.61
45	DA	13	DG	O3'-P	8.73	1.74	1.61
50	E3	11	DT	O3'-P	8.73	1.74	1.61
60	F2	6	DC	O3'-P	8.73	1.74	1.61
152	N9	7	DA	O3'-P	8.73	1.74	1.61
67	FA	4	DA	O3'-P	8.73	1.74	1.61
69	FD	6	DA	O3'-P	8.73	1.74	1.61
71	G2	15	DA	O3'-P	8.73	1.74	1.61
97	I7	12	DT	O3'-P	8.73	1.74	1.61
114	K1	18	DA	O3'-P	8.73	1.74	1.61
172	P9	13	DT	O3'-P	8.73	1.74	1.61
221	V2	9	DA	O3'-P	8.73	1.74	1.61
158	O5	45	DA	O3'-P	8.73	1.74	1.61
189	R8	25	DT	O3'-P	8.73	1.74	1.61
196	S5	18	DA	O3'-P	8.73	1.74	1.61
231	W5	21	DA	O3'-P	8.73	1.74	1.61
190	R9	31	DA	O3'-P	8.73	1.74	1.61
198	S8	18	DC	O3'-P	8.73	1.74	1.61
203	T2	18	DT	O3'-P	8.73	1.74	1.61
235	WD	17	DA	O3'-P	8.73	1.74	1.61
238	X9	49	DG	O3'-P	8.73	1.74	1.61
21	B8	24	DT	O3'-P	8.72	1.74	1.61
11	AB	30	DT	O3'-P	8.72	1.74	1.61
11	AB	133	DT	O3'-P	8.72	1.74	1.61
11	AB	362	DT	O3'-P	8.72	1.74	1.61
11	AB	773	DC	O3'-P	8.72	1.74	1.61
11	AB	4555	DA	O3'-P	8.72	1.74	1.61
113	JD	17	DA	O3'-P	8.72	1.74	1.61
11	AB	530	DT	O3'-P	8.72	1.74	1.61
11	AB	534	DC	O3'-P	8.72	1.74	1.61
11	AB	1608	DT	O3'-P	8.72	1.74	1.61
11	AB	1649	DT	O3'-P	8.72	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2466	DC	O3'-P	8.72	1.74	1.61
11	AB	2530	DT	O3'-P	8.72	1.74	1.61
11	AB	2531	DT	O3'-P	8.72	1.74	1.61
11	AB	4148	DC	O3'-P	8.72	1.74	1.61
11	AB	2542	DT	O3'-P	8.72	1.74	1.61
11	AB	2659	DT	O3'-P	8.72	1.74	1.61
11	AB	3489	DC	O3'-P	8.72	1.74	1.61
11	AB	4651	DA	O3'-P	8.72	1.74	1.61
11	AB	4898	DC	O3'-P	8.72	1.74	1.61
11	AB	6441	DA	O3'-P	8.72	1.74	1.61
69	FD	5	DA	O3'-P	8.72	1.74	1.61
11	AB	4984	DT	O3'-P	8.72	1.74	1.61
20	B7	18	DC	O3'-P	8.72	1.74	1.61
37	D1	33	DC	O3'-P	8.72	1.74	1.61
60	F2	9	DT	O3'-P	8.72	1.74	1.61
61	F3	25	DC	O3'-P	8.72	1.74	1.61
62	F5	16	DC	O3'-P	8.72	1.74	1.61
107	J6	2	DC	O3'-P	8.72	1.74	1.61
202	SD	7	DA	O3'-P	8.72	1.74	1.61
62	F5	29	DT	O3'-P	8.72	1.74	1.61
84	H5	24	DC	O3'-P	8.72	1.74	1.61
117	K5	30	DT	O3'-P	8.72	1.74	1.61
165	OD	36	DA	O3'-P	8.72	1.74	1.61
172	P9	21	DC	O3'-P	8.72	1.74	1.61
178	Q5	19	DT	O3'-P	8.72	1.74	1.61
206	T7	18	DA	O3'-P	8.72	1.74	1.61
214	U5	5	DC	O3'-P	8.72	1.74	1.61
217	U9	14	DT	O3'-P	8.72	1.74	1.61
1	A1	18	DT	O3'-P	8.72	1.74	1.61
2	A2	13	DC	O3'-P	8.72	1.74	1.61
9	A9	4	DT	O3'-P	8.72	1.74	1.61
11	AB	1177	DA	O3'-P	8.72	1.74	1.61
11	AB	5181	DT	O3'-P	8.72	1.74	1.61
160	O7	23	DT	O3'-P	8.72	1.74	1.61
2	A2	16	DT	O3'-P	8.72	1.74	1.61
11	AB	27	DT	O3'-P	8.72	1.74	1.61
11	AB	134	DT	O3'-P	8.72	1.74	1.61
11	AB	799	DT	O3'-P	8.72	1.74	1.61
11	AB	1056	DA	O3'-P	8.72	1.74	1.61
11	AB	1332	DT	O3'-P	8.72	1.74	1.61
11	AB	1355	DT	O3'-P	8.72	1.74	1.61
11	AB	2393	DT	O3'-P	8.72	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3274	DA	O3'-P	8.72	1.74	1.61
11	AB	3362	DT	O3'-P	8.72	1.74	1.61
11	AB	3427	DT	O3'-P	8.72	1.74	1.61
11	AB	3885	DT	O3'-P	8.72	1.74	1.61
11	AB	4190	DT	O3'-P	8.72	1.74	1.61
11	AB	4404	DT	O3'-P	8.72	1.74	1.61
11	AB	6766	DT	O3'-P	8.72	1.74	1.61
11	AB	7155	DC	O3'-P	8.72	1.74	1.61
11	AB	4523	DG	O3'-P	8.72	1.74	1.61
11	AB	4554	DA	O3'-P	8.72	1.74	1.61
11	AB	5107	DA	O3'-P	8.72	1.74	1.61
11	AB	5677	DC	O3'-P	8.72	1.74	1.61
11	AB	6216	DC	O3'-P	8.72	1.74	1.61
11	AB	6362	DA	O3'-P	8.72	1.74	1.61
11	AB	6608	DA	O3'-P	8.72	1.74	1.61
11	AB	6679	DT	O3'-P	8.72	1.74	1.61
11	AB	6822	DC	O3'-P	8.72	1.74	1.61
11	AB	6882	DG	O3'-P	8.72	1.74	1.61
11	AB	7112	DA	O3'-P	8.72	1.74	1.61
11	AB	7158	DT	O3'-P	8.72	1.74	1.61
11	AB	7205	DC	O3'-P	8.72	1.74	1.61
23	BA	33	DG	O3'-P	8.72	1.74	1.61
24	BC	19	DA	O3'-P	8.72	1.74	1.61
24	BC	25	DA	O3'-P	8.72	1.74	1.61
41	D6	23	DA	O3'-P	8.72	1.74	1.61
41	D6	39	DT	O3'-P	8.72	1.74	1.61
56	EA	16	DT	O3'-P	8.72	1.74	1.61
69	FD	18	DA	O3'-P	8.72	1.74	1.61
137	M3	18	DA	O3'-P	8.72	1.74	1.61
145	MD	56	DA	O3'-P	8.72	1.74	1.61
178	Q5	18	DT	O3'-P	8.72	1.74	1.61
62	F5	1	DA	O3'-P	8.72	1.74	1.61
64	F7	27	DT	O3'-P	8.72	1.74	1.61
77	G9	2	DT	O3'-P	8.72	1.74	1.61
80	GD	21	DG	O3'-P	8.72	1.74	1.61
100	IA	18	DA	O3'-P	8.72	1.74	1.61
108	J7	9	DA	O3'-P	8.72	1.74	1.61
128	L5	20	DC	O3'-P	8.72	1.74	1.61
139	M6	22	DC	O3'-P	8.72	1.74	1.61
169	P6	19	DC	O3'-P	8.72	1.74	1.61
140	M7	19	DA	O3'-P	8.72	1.74	1.61
158	O5	36	DC	O3'-P	8.72	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
172	P9	11	DT	O3'-P	8.72	1.74	1.61
173	PA	23	DT	O3'-P	8.72	1.74	1.61
195	S3	9	DA	O3'-P	8.72	1.74	1.61
202	SD	24	DA	O3'-P	8.72	1.74	1.61
206	T7	51	DA	O3'-P	8.72	1.74	1.61
214	U5	13	DT	O3'-P	8.72	1.74	1.61
238	X9	47	DT	O3'-P	8.72	1.74	1.61
11	AB	78	DC	O3'-P	8.72	1.74	1.61
11	AB	711	DC	O3'-P	8.72	1.74	1.61
11	AB	3225	DA	O3'-P	8.72	1.74	1.61
11	AB	6522	DT	O3'-P	8.72	1.74	1.61
17	B4	8	DA	O3'-P	8.72	1.74	1.61
47	DD	41	DG	O3'-P	8.72	1.74	1.61
79	GC	9	DA	O3'-P	8.72	1.74	1.61
89	HA	32	DC	O3'-P	8.72	1.74	1.61
11	AB	1356	DT	O3'-P	8.72	1.74	1.61
11	AB	1622	DC	O3'-P	8.72	1.74	1.61
11	AB	1658	DC	O3'-P	8.72	1.74	1.61
11	AB	2475	DT	O3'-P	8.72	1.74	1.61
11	AB	3492	DC	O3'-P	8.72	1.74	1.61
11	AB	3533	DT	O3'-P	8.72	1.74	1.61
11	AB	3975	DC	O3'-P	8.72	1.74	1.61
11	AB	4511	DC	O3'-P	8.72	1.74	1.61
11	AB	4191	DT	O3'-P	8.72	1.74	1.61
11	AB	4639	DT	O3'-P	8.72	1.74	1.61
11	AB	5265	DT	O3'-P	8.72	1.74	1.61
11	AB	5664	DT	O3'-P	8.72	1.74	1.61
11	AB	5679	DT	O3'-P	8.72	1.74	1.61
11	AB	5856	DT	O3'-P	8.72	1.74	1.61
11	AB	6333	DT	O3'-P	8.72	1.74	1.61
11	AB	7165	DC	O3'-P	8.72	1.74	1.61
64	F7	9	DA	O3'-P	8.72	1.74	1.61
145	MD	18	DA	O3'-P	8.72	1.74	1.61
231	W5	26	DT	O3'-P	8.72	1.74	1.61
11	AB	6603	DT	O3'-P	8.72	1.74	1.61
11	AB	6850	DT	O3'-P	8.72	1.74	1.61
112	JC	8	DA	O3'-P	8.72	1.74	1.61
126	L2	10	DT	O3'-P	8.72	1.74	1.61
127	L3	1	DC	O3'-P	8.72	1.74	1.61
181	Q9	8	DT	O3'-P	8.72	1.74	1.61
211	TD	18	DT	O3'-P	8.72	1.74	1.61
218	UA	1	DT	O3'-P	8.72	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2752	DT	O3'-P	8.72	1.74	1.61
11	AB	2773	DT	O3'-P	8.72	1.74	1.61
11	AB	3864	DA	O3'-P	8.72	1.74	1.61
11	AB	5388	DG	O3'-P	8.72	1.74	1.61
66	F9	7	DG	O3'-P	8.72	1.74	1.61
109	J8	45	DA	O3'-P	8.72	1.74	1.61
184	QD	11	DT	O3'-P	8.72	1.74	1.61
4	A4	28	DT	O3'-P	8.71	1.74	1.61
11	AB	130	DT	O3'-P	8.71	1.74	1.61
11	AB	471	DC	O3'-P	8.71	1.74	1.61
11	AB	776	DT	O3'-P	8.71	1.74	1.61
11	AB	875	DT	O3'-P	8.71	1.74	1.61
11	AB	1085	DT	O3'-P	8.71	1.74	1.61
11	AB	1174	DC	O3'-P	8.71	1.74	1.61
11	AB	1351	DT	O3'-P	8.71	1.74	1.61
11	AB	1446	DT	O3'-P	8.71	1.74	1.61
11	AB	2547	DT	O3'-P	8.72	1.74	1.61
11	AB	1451	DT	O3'-P	8.71	1.74	1.61
11	AB	1774	DT	O3'-P	8.71	1.74	1.61
11	AB	3140	DC	O3'-P	8.71	1.74	1.61
26	C1	2	DC	O3'-P	8.72	1.74	1.61
145	MD	19	DA	O3'-P	8.72	1.74	1.61
11	AB	3634	DA	O3'-P	8.71	1.74	1.61
11	AB	3749	DC	O3'-P	8.71	1.74	1.61
11	AB	4046	DA	O3'-P	8.71	1.74	1.61
11	AB	5337	DA	O3'-P	8.71	1.74	1.61
11	AB	5673	DT	O3'-P	8.71	1.74	1.61
11	AB	6554	DC	O3'-P	8.71	1.74	1.61
11	AB	6605	DC	O3'-P	8.71	1.74	1.61
11	AB	6993	DT	O3'-P	8.71	1.74	1.61
11	AB	7133	DT	O3'-P	8.71	1.74	1.61
41	D6	38	DT	O3'-P	8.71	1.74	1.61
52	E6	31	DC	O3'-P	8.71	1.74	1.61
142	M9	19	DA	O3'-P	8.72	1.74	1.61
55	E9	36	DT	O3'-P	8.71	1.74	1.61
66	F9	10	DA	O3'-P	8.71	1.74	1.61
83	H3	15	DC	O3'-P	8.71	1.74	1.61
108	J7	24	DT	O3'-P	8.71	1.74	1.61
122	KA	41	DC	O3'-P	8.71	1.74	1.61
136	M2	2	DT	O3'-P	8.71	1.74	1.61
139	M6	1	DC	O3'-P	8.71	1.74	1.61
148	N5	22	DA	O3'-P	8.71	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
152	N9	5	DT	O3'-P	8.71	1.74	1.61
171	P8	22	DT	O3'-P	8.71	1.74	1.61
184	QD	25	DA	O3'-P	8.71	1.74	1.61
196	S5	30	DT	O3'-P	8.71	1.74	1.61
5	A5	12	DT	O3'-P	8.71	1.74	1.61
11	AB	1490	DT	O3'-P	8.71	1.74	1.61
11	AB	4162	DC	O3'-P	8.71	1.74	1.61
11	AB	4567	DC	O3'-P	8.71	1.74	1.61
11	AB	5357	DA	O3'-P	8.71	1.74	1.61
41	D6	24	DA	O3'-P	8.71	1.74	1.61
42	D7	20	DC	O3'-P	8.71	1.74	1.61
57	EC	6	DT	O3'-P	8.71	1.74	1.61
105	J3	25	DT	O3'-P	8.71	1.74	1.61
4	A4	13	DC	O3'-P	8.71	1.74	1.61
11	AB	165	DT	O3'-P	8.71	1.74	1.61
11	AB	1344	DT	O3'-P	8.71	1.74	1.61
11	AB	1735	DA	O3'-P	8.71	1.74	1.61
11	AB	1775	DT	O3'-P	8.71	1.74	1.61
11	AB	1941	DC	O3'-P	8.71	1.74	1.61
11	AB	2016	DT	O3'-P	8.71	1.74	1.61
11	AB	3266	DA	O3'-P	8.71	1.74	1.61
11	AB	3819	DT	O3'-P	8.71	1.74	1.61
11	AB	4561	DA	O3'-P	8.71	1.74	1.61
49	E2	22	DT	O3'-P	8.71	1.74	1.61
73	G5	12	DC	O3'-P	8.71	1.74	1.61
117	K5	28	DC	O3'-P	8.71	1.74	1.61
138	M5	36	DC	O3'-P	8.71	1.74	1.61
145	MD	8	DA	O3'-P	8.71	1.74	1.61
173	PA	26	DA	O3'-P	8.71	1.74	1.61
11	AB	2634	DT	O3'-P	8.71	1.74	1.61
11	AB	2775	DA	O3'-P	8.71	1.74	1.61
11	AB	2889	DT	O3'-P	8.71	1.74	1.61
11	AB	3222	DT	O3'-P	8.71	1.74	1.61
11	AB	3666	DT	O3'-P	8.71	1.74	1.61
11	AB	3820	DT	O3'-P	8.71	1.74	1.61
11	AB	3990	DC	O3'-P	8.71	1.74	1.61
11	AB	4779	DA	O3'-P	8.71	1.74	1.61
194	S2	26	DT	O3'-P	8.71	1.74	1.61
11	AB	4002	DC	O3'-P	8.71	1.74	1.61
11	AB	4596	DC	O3'-P	8.71	1.74	1.61
11	AB	4818	DC	O3'-P	8.71	1.74	1.61
11	AB	4866	DC	O3'-P	8.71	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4974	DC	O3'-P	8.71	1.74	1.61
11	AB	5446	DC	O3'-P	8.71	1.74	1.61
11	AB	5767	DT	O3'-P	8.71	1.74	1.61
11	AB	6058	DC	O3'-P	8.71	1.74	1.61
11	AB	6377	DC	O3'-P	8.71	1.74	1.61
11	AB	6461	DT	O3'-P	8.71	1.74	1.61
53	E7	18	DA	O3'-P	8.71	1.74	1.61
75	G7	8	DA	O3'-P	8.71	1.74	1.61
82	H2	52	DA	O3'-P	8.71	1.74	1.61
101	IC	10	DA	O3'-P	8.71	1.74	1.61
28	C3	6	DC	O3'-P	8.71	1.74	1.61
83	H3	1	DC	O3'-P	8.71	1.74	1.61
90	HC	13	DC	O3'-P	8.71	1.74	1.61
94	I3	48	DC	O3'-P	8.71	1.74	1.61
103	J1	27	DT	O3'-P	8.71	1.74	1.61
111	JA	17	DC	O3'-P	8.71	1.74	1.61
130	L7	17	DT	O3'-P	8.71	1.74	1.61
131	L8	7	DC	O3'-P	8.71	1.74	1.61
134	LC	7	DC	O3'-P	8.71	1.74	1.61
138	M5	11	DT	O3'-P	8.71	1.74	1.61
143	MA	12	DC	O3'-P	8.71	1.74	1.61
158	O5	24	DA	O3'-P	8.71	1.74	1.61
235	WD	20	DT	O3'-P	8.71	1.74	1.61
155	ND	11	DT	O3'-P	8.71	1.74	1.61
161	O8	10	DA	O3'-P	8.71	1.74	1.61
161	O8	54	DC	O3'-P	8.71	1.74	1.61
167	P3	32	DC	O3'-P	8.71	1.74	1.61
216	U8	20	DC	O3'-P	8.71	1.74	1.61
222	V3	6	DT	O3'-P	8.71	1.74	1.61
226	V9	30	DC	O3'-P	8.71	1.74	1.61
236	X5	15	DT	O3'-P	8.71	1.74	1.61
1	A1	32	DA	O3'-P	8.71	1.74	1.61
2	A2	28	DT	O3'-P	8.71	1.74	1.61
4	A4	27	DT	O3'-P	8.71	1.74	1.61
11	AB	202	DC	O3'-P	8.71	1.74	1.61
11	AB	265	DG	O3'-P	8.71	1.74	1.61
11	AB	626	DC	O3'-P	8.71	1.74	1.61
11	AB	675	DG	O3'-P	8.71	1.74	1.61
11	AB	938	DG	O3'-P	8.71	1.74	1.61
11	AB	1107	DT	O3'-P	8.71	1.74	1.61
11	AB	1212	DT	O3'-P	8.71	1.74	1.61
11	AB	1279	DT	O3'-P	8.71	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1644	DT	O3'-P	8.71	1.74	1.61
11	AB	2536	DT	O3'-P	8.71	1.74	1.61
11	AB	2720	DT	O3'-P	8.71	1.74	1.61
11	AB	2784	DA	O3'-P	8.71	1.74	1.61
11	AB	2930	DT	O3'-P	8.71	1.74	1.61
11	AB	4143	DC	O3'-P	8.71	1.74	1.61
11	AB	4165	DT	O3'-P	8.71	1.74	1.61
11	AB	5025	DC	O3'-P	8.71	1.74	1.61
11	AB	6374	DT	O3'-P	8.71	1.74	1.61
21	B8	4	DT	O3'-P	8.71	1.74	1.61
41	D6	44	DC	O3'-P	8.71	1.74	1.61
11	AB	4220	DC	O3'-P	8.71	1.74	1.61
11	AB	5328	DT	O3'-P	8.71	1.74	1.61
11	AB	5671	DT	O3'-P	8.71	1.74	1.61
11	AB	5887	DA	O3'-P	8.71	1.74	1.61
11	AB	6389	DA	O3'-P	8.71	1.74	1.61
11	AB	6421	DG	O3'-P	8.71	1.74	1.61
11	AB	7146	DC	O3'-P	8.71	1.74	1.61
38	D2	15	DC	O3'-P	8.71	1.74	1.61
95	I5	20	DA	O3'-P	8.71	1.74	1.61
171	P8	23	DT	O3'-P	8.71	1.74	1.61
11	AB	6530	DA	O3'-P	8.71	1.74	1.61
11	AB	6677	DA	O3'-P	8.71	1.74	1.61
11	AB	7142	DA	O3'-P	8.71	1.74	1.61
18	B5	4	DC	O3'-P	8.71	1.74	1.61
24	BC	20	DA	O3'-P	8.71	1.74	1.61
54	E8	34	DC	O3'-P	8.71	1.74	1.61
89	HA	12	DG	O3'-P	8.71	1.74	1.61
11	AB	7172	DC	O3'-P	8.71	1.74	1.61
20	B7	10	DC	O3'-P	8.71	1.74	1.61
24	BC	9	DC	O3'-P	8.71	1.74	1.61
32	C8	49	DT	O3'-P	8.71	1.74	1.61
33	C9	10	DA	O3'-P	8.71	1.74	1.61
35	CC	10	DC	O3'-P	8.71	1.74	1.61
39	D3	8	DC	O3'-P	8.71	1.74	1.61
43	D8	6	DA	O3'-P	8.71	1.74	1.61
77	G9	17	DG	O3'-P	8.71	1.74	1.61
122	KA	37	DT	O3'-P	8.71	1.74	1.61
126	L2	12	DA	O3'-P	8.71	1.74	1.61
138	M5	10	DT	O3'-P	8.71	1.74	1.61
152	N9	9	DT	O3'-P	8.71	1.74	1.61
161	O8	48	DT	O3'-P	8.71	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
187	R5	41	DC	O3'-P	8.71	1.74	1.61
222	V3	7	DT	O3'-P	8.71	1.74	1.61
187	R5	2	DA	O3'-P	8.71	1.74	1.61
188	R7	28	DG	O3'-P	8.71	1.74	1.61
200	SA	13	DC	O3'-P	8.71	1.74	1.61
204	T3	11	DT	O3'-P	8.71	1.74	1.61
230	W3	16	DC	O3'-P	8.71	1.74	1.61
2	A2	30	DA	O3'-P	8.71	1.74	1.61
11	AB	144	DT	O3'-P	8.71	1.74	1.61
11	AB	290	DT	O3'-P	8.71	1.74	1.61
11	AB	564	DC	O3'-P	8.71	1.74	1.61
11	AB	1111	DT	O3'-P	8.71	1.74	1.61
11	AB	1437	DT	O3'-P	8.71	1.74	1.61
11	AB	1444	DT	O3'-P	8.71	1.74	1.61
11	AB	2225	DT	O3'-P	8.71	1.74	1.61
11	AB	2767	DT	O3'-P	8.71	1.74	1.61
11	AB	5849	DC	O3'-P	8.71	1.74	1.61
125	L1	53	DG	O3'-P	8.71	1.74	1.61
195	S3	19	DT	O3'-P	8.71	1.74	1.61
11	AB	2570	DT	O3'-P	8.70	1.74	1.61
11	AB	2583	DC	O3'-P	8.71	1.74	1.61
11	AB	2624	DT	O3'-P	8.71	1.74	1.61
11	AB	2641	DT	O3'-P	8.71	1.74	1.61
11	AB	3881	DT	O3'-P	8.71	1.74	1.61
11	AB	4366	DT	O3'-P	8.71	1.74	1.61
11	AB	5390	DG	O3'-P	8.71	1.74	1.61
11	AB	5620	DC	O3'-P	8.71	1.74	1.61
11	AB	4259	DC	O3'-P	8.70	1.74	1.61
11	AB	5184	DT	O3'-P	8.71	1.74	1.61
11	AB	6046	DT	O3'-P	8.71	1.74	1.61
11	AB	6549	DT	O3'-P	8.71	1.74	1.61
11	AB	5854	DT	O3'-P	8.70	1.74	1.61
11	AB	6983	DT	O3'-P	8.71	1.74	1.61
15	B2	21	DC	O3'-P	8.71	1.74	1.61
35	CC	19	DT	O3'-P	8.71	1.74	1.61
39	D3	33	DC	O3'-P	8.71	1.74	1.61
49	E2	38	DC	O3'-P	8.71	1.74	1.61
98	I8	12	DC	O3'-P	8.70	1.74	1.61
104	J2	29	DC	O3'-P	8.71	1.74	1.61
107	J6	9	DA	O3'-P	8.71	1.74	1.61
108	J7	13	DT	O3'-P	8.71	1.74	1.61
108	J7	38	DA	O3'-P	8.70	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
118	K6	10	DC	O3'-P	8.71	1.74	1.61
138	M5	34	DA	O3'-P	8.70	1.74	1.61
150	N7	14	DG	O3'-P	8.70	1.74	1.61
161	O8	24	DT	O3'-P	8.71	1.74	1.61
171	P8	11	DC	O3'-P	8.71	1.74	1.61
192	RC	34	DC	O3'-P	8.70	1.74	1.61
206	T7	23	DG	O3'-P	8.70	1.74	1.61
211	TD	6	DT	O3'-P	8.71	1.74	1.61
219	UC	11	DT	O3'-P	8.71	1.74	1.61
218	UA	2	DT	O3'-P	8.70	1.74	1.61
11	AB	155	DA	O3'-P	8.70	1.74	1.61
11	AB	277	DA	O3'-P	8.70	1.74	1.61
11	AB	384	DG	O3'-P	8.70	1.74	1.61
11	AB	1345	DT	O3'-P	8.70	1.74	1.61
11	AB	3918	DC	O3'-P	8.70	1.74	1.61
11	AB	3963	DC	O3'-P	8.70	1.74	1.61
11	AB	4698	DT	O3'-P	8.70	1.74	1.61
84	H5	34	DC	O3'-P	8.70	1.74	1.61
132	L9	4	DA	O3'-P	8.70	1.74	1.61
151	N8	13	DT	O3'-P	8.70	1.74	1.61
11	AB	685	DC	O3'-P	8.70	1.74	1.61
11	AB	1290	DA	O3'-P	8.70	1.74	1.61
11	AB	1753	DT	O3'-P	8.70	1.74	1.61
11	AB	2131	DT	O3'-P	8.70	1.74	1.61
11	AB	2221	DT	O3'-P	8.70	1.74	1.61
11	AB	2049	DA	O3'-P	8.70	1.74	1.61
11	AB	2158	DT	O3'-P	8.70	1.74	1.61
11	AB	3448	DG	O3'-P	8.70	1.74	1.61
11	AB	4091	DG	O3'-P	8.70	1.74	1.61
11	AB	4345	DT	O3'-P	8.70	1.74	1.61
11	AB	6292	DT	O3'-P	8.70	1.74	1.61
11	AB	6989	DT	O3'-P	8.70	1.74	1.61
76	G8	19	DG	O3'-P	8.70	1.74	1.61
218	UA	3	DT	O3'-P	8.70	1.74	1.61
11	AB	6475	DC	O3'-P	8.70	1.74	1.61
11	AB	7163	DA	O3'-P	8.70	1.74	1.61
20	B7	17	DC	O3'-P	8.70	1.74	1.61
30	C6	43	DG	O3'-P	8.70	1.74	1.61
41	D6	11	DA	O3'-P	8.70	1.74	1.61
60	F2	1	DC	O3'-P	8.70	1.74	1.61
63	F6	5	DG	O3'-P	8.70	1.74	1.61
74	G6	12	DC	O3'-P	8.70	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
82	H2	39	DC	O3'-P	8.70	1.74	1.61
82	H2	45	DT	O3'-P	8.70	1.74	1.61
96	I6	12	DT	O3'-P	8.70	1.74	1.61
101	IC	22	DC	O3'-P	8.70	1.74	1.61
117	K5	47	DC	O3'-P	8.70	1.74	1.61
135	LD	19	DT	O3'-P	8.70	1.74	1.61
136	M2	11	DT	O3'-P	8.70	1.74	1.61
143	MA	31	DC	O3'-P	8.70	1.74	1.61
149	N6	43	DA	O3'-P	8.70	1.74	1.61
156	O2	39	DG	O3'-P	8.70	1.74	1.61
167	P3	21	DC	O3'-P	8.70	1.74	1.61
193	RD	17	DT	O3'-P	8.70	1.74	1.61
201	SC	3	DT	O3'-P	8.70	1.74	1.61
215	U7	18	DC	O3'-P	8.70	1.74	1.61
227	VA	14	DA	O3'-P	8.70	1.74	1.61
238	X9	35	DC	O3'-P	8.70	1.74	1.61
1	A1	20	DC	O3'-P	8.70	1.74	1.61
11	AB	96	DA	O3'-P	8.70	1.74	1.61
11	AB	802	DT	O3'-P	8.70	1.74	1.61
11	AB	4304	DC	O3'-P	8.70	1.74	1.61
60	F2	13	DC	O3'-P	8.70	1.74	1.61
113	JD	15	DT	O3'-P	8.70	1.74	1.61
11	AB	537	DC	O3'-P	8.70	1.74	1.61
11	AB	795	DT	O3'-P	8.70	1.74	1.61
11	AB	949	DC	O3'-P	8.70	1.74	1.61
11	AB	1018	DC	O3'-P	8.70	1.74	1.61
11	AB	1137	DG	O3'-P	8.70	1.74	1.61
11	AB	1462	DT	O3'-P	8.70	1.74	1.61
11	AB	1651	DA	O3'-P	8.70	1.74	1.61
11	AB	1950	DC	O3'-P	8.70	1.74	1.61
11	AB	1993	DC	O3'-P	8.70	1.74	1.61
11	AB	2413	DC	O3'-P	8.70	1.74	1.61
11	AB	3052	DC	O3'-P	8.70	1.74	1.61
11	AB	4729	DC	O3'-P	8.70	1.74	1.61
11	AB	2591	DG	O3'-P	8.70	1.74	1.61
11	AB	3812	DC	O3'-P	8.70	1.74	1.61
11	AB	5085	DC	O3'-P	8.70	1.74	1.61
11	AB	5794	DC	O3'-P	8.70	1.74	1.61
46	DC	17	DC	O3'-P	8.70	1.74	1.61
115	K2	31	DT	O3'-P	8.70	1.74	1.61
141	M8	17	DC	O3'-P	8.70	1.74	1.61
161	O8	16	DC	O3'-P	8.70	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
180	Q8	21	DC	O3'-P	8.70	1.74	1.61
11	AB	3945	DG	O3'-P	8.70	1.74	1.61
11	AB	3976	DC	O3'-P	8.70	1.74	1.61
11	AB	4142	DC	O3'-P	8.70	1.74	1.61
11	AB	4463	DC	O3'-P	8.70	1.74	1.61
11	AB	4477	DC	O3'-P	8.70	1.74	1.61
11	AB	4897	DC	O3'-P	8.70	1.74	1.61
11	AB	5379	DC	O3'-P	8.70	1.74	1.61
11	AB	5746	DT	O3'-P	8.70	1.74	1.61
11	AB	5867	DC	O3'-P	8.70	1.74	1.61
84	H5	23	DC	O3'-P	8.70	1.74	1.61
165	OD	27	DC	O3'-P	8.70	1.74	1.61
11	AB	5904	DT	O3'-P	8.70	1.74	1.61
11	AB	6771	DT	O3'-P	8.70	1.74	1.61
11	AB	6834	DC	O3'-P	8.70	1.74	1.61
11	AB	7117	DC	O3'-P	8.70	1.74	1.61
24	BC	30	DC	O3'-P	8.70	1.74	1.61
54	E8	11	DT	O3'-P	8.70	1.74	1.61
73	G5	2	DC	O3'-P	8.70	1.74	1.61
85	H6	10	DC	O3'-P	8.70	1.74	1.61
100	IA	8	DC	O3'-P	8.70	1.74	1.61
118	K6	20	DT	O3'-P	8.70	1.74	1.61
125	L1	48	DG	O3'-P	8.70	1.74	1.61
100	IA	16	DA	O3'-P	8.70	1.74	1.61
103	J1	2	DC	O3'-P	8.70	1.74	1.61
126	L2	28	DC	O3'-P	8.70	1.74	1.61
127	L3	9	DT	O3'-P	8.70	1.74	1.61
137	M3	24	DC	O3'-P	8.70	1.74	1.61
151	N8	16	DC	O3'-P	8.70	1.74	1.61
157	O3	6	DC	O3'-P	8.70	1.74	1.61
168	P5	1	DC	O3'-P	8.70	1.74	1.61
181	Q9	10	DT	O3'-P	8.70	1.74	1.61
209	TA	21	DC	O3'-P	8.70	1.74	1.61
228	VC	39	DG	O3'-P	8.70	1.74	1.61
236	X5	17	DC	O3'-P	8.70	1.74	1.61
11	AB	3808	DA	O3'-P	8.70	1.74	1.61
96	I6	17	DC	O3'-P	8.70	1.74	1.61
2	A2	4	DC	O3'-P	8.70	1.74	1.61
4	A4	12	DC	O3'-P	8.70	1.74	1.61
9	A9	14	DT	O3'-P	8.70	1.74	1.61
11	AB	366	DG	O3'-P	8.70	1.74	1.61
11	AB	1258	DT	O3'-P	8.70	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1877	DT	O3'-P	8.70	1.74	1.61
11	AB	2474	DT	O3'-P	8.70	1.74	1.61
11	AB	4001	DC	O3'-P	8.70	1.74	1.61
11	AB	5154	DC	O3'-P	8.70	1.74	1.61
11	AB	5855	DT	O3'-P	8.70	1.74	1.61
11	AB	5897	DT	O3'-P	8.70	1.74	1.61
11	AB	6281	DT	O3'-P	8.70	1.74	1.61
52	E6	17	DC	O3'-P	8.70	1.74	1.61
84	H5	22	DC	O3'-P	8.70	1.74	1.61
91	HD	9	DT	O3'-P	8.70	1.74	1.61
134	LC	21	DC	O3'-P	8.70	1.74	1.61
137	M3	29	DC	O3'-P	8.70	1.74	1.61
192	RC	35	DC	O3'-P	8.70	1.74	1.61
235	WD	19	DT	O3'-P	8.70	1.74	1.61
4	A4	26	DT	O3'-P	8.69	1.74	1.61
11	AB	120	DT	O3'-P	8.69	1.74	1.61
11	AB	281	DT	O3'-P	8.69	1.74	1.61
11	AB	408	DG	O3'-P	8.70	1.74	1.61
11	AB	429	DG	O3'-P	8.70	1.74	1.61
11	AB	489	DC	O3'-P	8.70	1.74	1.61
11	AB	591	DC	O3'-P	8.70	1.74	1.61
11	AB	770	DT	O3'-P	8.70	1.74	1.61
11	AB	794	DT	O3'-P	8.69	1.74	1.61
11	AB	1172	DT	O3'-P	8.70	1.74	1.61
11	AB	1471	DT	O3'-P	8.70	1.74	1.61
11	AB	4200	DA	O3'-P	8.70	1.74	1.61
11	AB	5271	DT	O3'-P	8.70	1.74	1.61
11	AB	6295	DA	O3'-P	8.70	1.74	1.61
11	AB	7228	DC	O3'-P	8.70	1.74	1.61
37	D1	25	DC	O3'-P	8.70	1.74	1.61
129	L6	9	DT	O3'-P	8.70	1.74	1.61
143	MA	38	DC	O3'-P	8.70	1.74	1.61
173	PA	13	DA	O3'-P	8.70	1.74	1.61
11	AB	1271	DT	O3'-P	8.69	1.74	1.61
11	AB	1454	DT	O3'-P	8.69	1.74	1.61
11	AB	1476	DT	O3'-P	8.69	1.74	1.61
11	AB	1594	DT	O3'-P	8.70	1.74	1.61
11	AB	2229	DC	O3'-P	8.70	1.74	1.61
11	AB	2579	DC	O3'-P	8.69	1.74	1.61
11	AB	2874	DT	O3'-P	8.70	1.74	1.61
36	CD	11	DC	O3'-P	8.70	1.74	1.61
97	I7	21	DC	O3'-P	8.70	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
105	J3	30	DC	O3'-P	8.70	1.74	1.61
11	AB	3261	DT	O3'-P	8.69	1.74	1.61
11	AB	3497	DC	O3'-P	8.69	1.74	1.61
11	AB	3803	DC	O3'-P	8.70	1.74	1.61
11	AB	4195	DC	O3'-P	8.70	1.74	1.61
11	AB	4231	DC	O3'-P	8.70	1.74	1.61
11	AB	4444	DC	O3'-P	8.69	1.74	1.61
11	AB	4556	DA	O3'-P	8.70	1.74	1.61
11	AB	4839	DC	O3'-P	8.70	1.74	1.61
11	AB	4934	DC	O3'-P	8.70	1.74	1.61
11	AB	4969	DC	O3'-P	8.70	1.74	1.61
11	AB	5102	DC	O3'-P	8.69	1.74	1.61
11	AB	5103	DC	O3'-P	8.69	1.74	1.61
11	AB	5108	DA	O3'-P	8.70	1.74	1.61
11	AB	5282	DC	O3'-P	8.70	1.74	1.61
11	AB	5500	DT	O3'-P	8.70	1.74	1.61
11	AB	5966	DT	O3'-P	8.70	1.74	1.61
11	AB	6467	DT	O3'-P	8.70	1.74	1.61
11	AB	7100	DC	O3'-P	8.70	1.74	1.61
94	I3	27	DC	O3'-P	8.70	1.74	1.61
27	C2	11	DC	O3'-P	8.69	1.74	1.61
96	I6	6	DT	O3'-P	8.69	1.74	1.61
123	KC	27	DT	O3'-P	8.69	1.74	1.61
126	L2	39	DC	O3'-P	8.69	1.74	1.61
127	L3	6	DT	O3'-P	8.70	1.74	1.61
184	QD	20	DC	O3'-P	8.70	1.74	1.61
188	R7	30	DC	O3'-P	8.69	1.74	1.61
194	S2	8	DT	O3'-P	8.69	1.74	1.61
219	UC	24	DC	O3'-P	8.70	1.74	1.61
235	WD	14	DA	O3'-P	8.69	1.74	1.61
238	X9	46	DT	O3'-P	8.70	1.74	1.61
6	A6	24	DT	O3'-P	8.69	1.74	1.61
9	A9	1	DT	O3'-P	8.69	1.74	1.61
11	AB	803	DT	O3'-P	8.69	1.74	1.61
10	AA	18	DC	O3'-P	8.69	1.74	1.61
11	AB	951	DG	O3'-P	8.69	1.74	1.61
11	AB	1164	DG	O3'-P	8.69	1.74	1.61
11	AB	1448	DC	O3'-P	8.69	1.74	1.61
11	AB	1457	DT	O3'-P	8.69	1.74	1.61
11	AB	1780	DT	O3'-P	8.69	1.74	1.61
11	AB	1791	DA	O3'-P	8.69	1.74	1.61
11	AB	2053	DC	O3'-P	8.69	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2898	DT	O3'-P	8.69	1.74	1.61
11	AB	3244	DT	O3'-P	8.69	1.74	1.61
11	AB	3410	DT	O3'-P	8.69	1.74	1.61
11	AB	4597	DC	O3'-P	8.69	1.74	1.61
11	AB	4640	DT	O3'-P	8.69	1.74	1.61
11	AB	6450	DT	O3'-P	8.69	1.74	1.61
39	D3	15	DA	O3'-P	8.69	1.74	1.61
69	FD	41	DA	O3'-P	8.69	1.74	1.61
85	H6	17	DG	O3'-P	8.69	1.74	1.61
11	AB	2626	DT	O3'-P	8.69	1.74	1.61
11	AB	2786	DT	O3'-P	8.69	1.74	1.61
11	AB	2878	DC	O3'-P	8.69	1.74	1.61
11	AB	3378	DC	O3'-P	8.69	1.74	1.61
11	AB	3725	DT	O3'-P	8.69	1.74	1.61
11	AB	4986	DC	O3'-P	8.69	1.74	1.61
11	AB	5269	DT	O3'-P	8.69	1.74	1.61
11	AB	6020	DT	O3'-P	8.69	1.74	1.61
11	AB	6191	DT	O3'-P	8.69	1.74	1.61
11	AB	6606	DC	O3'-P	8.69	1.74	1.61
11	AB	6694	DC	O3'-P	8.69	1.74	1.61
11	AB	7099	DC	O3'-P	8.69	1.74	1.61
11	AB	7138	DC	O3'-P	8.69	1.74	1.61
11	AB	7227	DC	O3'-P	8.69	1.74	1.61
136	M2	10	DT	O3'-P	8.69	1.74	1.61
141	M8	11	DT	O3'-P	8.69	1.74	1.61
147	N3	23	DC	O3'-P	8.69	1.74	1.61
149	N6	11	DC	O3'-P	8.69	1.74	1.61
19	B6	2	DA	O3'-P	8.69	1.74	1.61
30	C6	18	DC	O3'-P	8.69	1.74	1.61
55	E9	19	DC	O3'-P	8.69	1.74	1.61
70	G1	14	DC	O3'-P	8.69	1.74	1.61
97	I7	24	DG	O3'-P	8.69	1.74	1.61
172	P9	25	DC	O3'-P	8.69	1.74	1.61
125	L1	36	DC	O3'-P	8.69	1.74	1.61
126	L2	16	DG	O3'-P	8.69	1.74	1.61
145	MD	40	DC	O3'-P	8.69	1.74	1.61
145	MD	41	DC	O3'-P	8.69	1.74	1.61
150	N7	9	DC	O3'-P	8.69	1.74	1.61
172	P9	6	DT	O3'-P	8.69	1.74	1.61
172	P9	12	DT	O3'-P	8.69	1.74	1.61
173	PA	28	DC	O3'-P	8.69	1.74	1.61
187	R5	11	DC	O3'-P	8.69	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
205	T5	23	DA	O3'-P	8.69	1.74	1.61
211	TD	1	DT	O3'-P	8.69	1.74	1.61
229	VD	16	DA	O3'-P	8.69	1.74	1.61
237	X7	12	DC	O3'-P	8.69	1.74	1.61
2	A2	27	DT	O3'-P	8.69	1.74	1.61
11	AB	278	DA	O3'-P	8.69	1.74	1.61
11	AB	798	DT	O3'-P	8.69	1.74	1.61
11	AB	1619	DT	O3'-P	8.69	1.74	1.61
11	AB	3861	DA	O3'-P	8.69	1.74	1.61
11	AB	4539	DC	O3'-P	8.69	1.74	1.61
11	AB	4609	DC	O3'-P	8.69	1.74	1.61
108	J7	3	DT	O3'-P	8.69	1.74	1.61
11	AB	883	DG	O3'-P	8.69	1.74	1.61
11	AB	1178	DA	O3'-P	8.69	1.74	1.61
11	AB	1248	DC	O3'-P	8.69	1.74	1.61
11	AB	1269	DC	O3'-P	8.69	1.74	1.61
11	AB	1278	DT	O3'-P	8.69	1.74	1.61
11	AB	2155	DT	O3'-P	8.69	1.74	1.61
11	AB	2244	DT	O3'-P	8.69	1.74	1.61
11	AB	2983	DC	O3'-P	8.69	1.74	1.61
11	AB	3223	DT	O3'-P	8.69	1.74	1.61
11	AB	4784	DG	O3'-P	8.69	1.74	1.61
11	AB	5852	DC	O3'-P	8.69	1.74	1.61
11	AB	2299	DT	O3'-P	8.69	1.74	1.61
11	AB	3534	DT	O3'-P	8.69	1.74	1.61
11	AB	6220	DT	O3'-P	8.69	1.74	1.61
47	DD	19	DC	O3'-P	8.69	1.74	1.61
51	E5	24	DG	O3'-P	8.69	1.74	1.61
11	AB	4643	DC	O3'-P	8.69	1.74	1.61
11	AB	4759	DG	O3'-P	8.69	1.74	1.61
11	AB	4830	DT	O3'-P	8.69	1.74	1.61
11	AB	5039	DC	O3'-P	8.69	1.74	1.61
11	AB	5741	DC	O3'-P	8.69	1.74	1.61
11	AB	5770	DT	O3'-P	8.69	1.74	1.61
62	F5	19	DC	O3'-P	8.69	1.74	1.61
74	G6	19	DT	O3'-P	8.69	1.74	1.61
11	AB	6193	DC	O3'-P	8.69	1.74	1.61
35	CC	11	DC	O3'-P	8.69	1.74	1.61
37	D1	11	DG	O3'-P	8.69	1.74	1.61
59	F1	8	DC	O3'-P	8.69	1.74	1.61
85	H6	19	DT	O3'-P	8.69	1.74	1.61
110	J9	20	DG	O3'-P	8.69	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
127	L3	13	DT	O3'-P	8.69	1.74	1.61
162	O9	17	DC	O3'-P	8.69	1.74	1.61
169	P6	9	DG	O3'-P	8.69	1.74	1.61
172	P9	5	DT	O3'-P	8.69	1.74	1.61
177	Q3	8	DC	O3'-P	8.69	1.74	1.61
197	S7	7	DC	O3'-P	8.69	1.74	1.61
199	S9	5	DG	O3'-P	8.69	1.74	1.61
204	T3	4	DG	O3'-P	8.69	1.74	1.61
204	T3	25	DC	O3'-P	8.69	1.74	1.61
213	U3	8	DA	O3'-P	8.69	1.74	1.61
219	UC	9	DT	O3'-P	8.69	1.74	1.61
228	VC	30	DC	O3'-P	8.69	1.74	1.61
232	W7	26	DT	O3'-P	8.69	1.74	1.61
11	AB	2082	DC	O3'-P	8.69	1.74	1.61
11	AB	3154	DG	O3'-P	8.69	1.74	1.61
231	W5	7	DG	O3'-P	8.69	1.74	1.61
11	AB	36	DT	O3'-P	8.69	1.74	1.61
11	AB	103	DT	O3'-P	8.69	1.74	1.61
11	AB	186	DC	O3'-P	8.69	1.74	1.61
11	AB	282	DT	O3'-P	8.69	1.74	1.61
11	AB	338	DT	O3'-P	8.69	1.74	1.61
11	AB	2757	DT	O3'-P	8.69	1.74	1.61
11	AB	4707	DC	O3'-P	8.69	1.74	1.61
83	H3	8	DT	O3'-P	8.69	1.74	1.61
11	AB	2148	DT	O3'-P	8.69	1.74	1.61
11	AB	2249	DT	O3'-P	8.69	1.74	1.61
11	AB	2928	DT	O3'-P	8.69	1.74	1.61
11	AB	2945	DT	O3'-P	8.69	1.74	1.61
11	AB	3051	DC	O3'-P	8.69	1.74	1.61
11	AB	3056	DC	O3'-P	8.69	1.74	1.61
31	C7	27	DT	O3'-P	8.69	1.74	1.61
109	J8	12	DG	O3'-P	8.69	1.74	1.61
11	AB	3654	DC	O3'-P	8.69	1.74	1.61
11	AB	3746	DT	O3'-P	8.69	1.74	1.61
11	AB	3801	DT	O3'-P	8.69	1.74	1.61
11	AB	3958	DC	O3'-P	8.69	1.74	1.61
11	AB	4156	DT	O3'-P	8.69	1.74	1.61
11	AB	4408	DT	O3'-P	8.69	1.74	1.61
11	AB	4459	DT	O3'-P	8.69	1.74	1.61
11	AB	4817	DC	O3'-P	8.69	1.74	1.61
11	AB	4944	DC	O3'-P	8.69	1.74	1.61
11	AB	5033	DC	O3'-P	8.69	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5051	DC	O3'-P	8.69	1.74	1.61
11	AB	5145	DC	O3'-P	8.69	1.74	1.61
11	AB	5347	DT	O3'-P	8.69	1.74	1.61
96	I6	1	DT	O3'-P	8.69	1.74	1.61
117	K5	20	DC	O3'-P	8.69	1.74	1.61
206	T7	39	DG	O3'-P	8.69	1.74	1.61
11	AB	5408	DC	O3'-P	8.69	1.74	1.61
11	AB	5501	DT	O3'-P	8.69	1.74	1.61
11	AB	5661	DT	O3'-P	8.69	1.74	1.61
11	AB	5766	DT	O3'-P	8.69	1.74	1.61
11	AB	6206	DT	O3'-P	8.69	1.74	1.61
11	AB	6908	DC	O3'-P	8.69	1.74	1.61
11	AB	6994	DT	O3'-P	8.69	1.74	1.61
11	AB	7104	DT	O3'-P	8.69	1.74	1.61
32	C8	22	DC	O3'-P	8.69	1.74	1.61
34	CA	8	DA	O3'-P	8.69	1.74	1.61
39	D3	14	DA	O3'-P	8.69	1.74	1.61
43	D8	23	DC	O3'-P	8.69	1.74	1.61
56	EA	21	DC	O3'-P	8.69	1.74	1.61
59	F1	9	DC	O3'-P	8.69	1.74	1.61
81	H1	12	DG	O3'-P	8.69	1.74	1.61
88	H9	28	DC	O3'-P	8.69	1.74	1.61
95	I5	4	DT	O3'-P	8.69	1.74	1.61
105	J3	15	DC	O3'-P	8.69	1.74	1.61
105	J3	26	DT	O3'-P	8.69	1.74	1.61
107	J6	36	DT	O3'-P	8.69	1.74	1.61
167	P3	12	DT	O3'-P	8.69	1.74	1.61
113	JD	11	DG	O3'-P	8.69	1.74	1.61
115	K2	22	DT	O3'-P	8.69	1.74	1.61
117	K5	19	DC	O3'-P	8.69	1.74	1.61
117	K5	22	DC	O3'-P	8.69	1.74	1.61
126	L2	9	DT	O3'-P	8.69	1.74	1.61
142	M9	22	DT	O3'-P	8.69	1.74	1.61
181	Q9	37	DC	O3'-P	8.69	1.74	1.61
191	RA	13	DC	O3'-P	8.69	1.74	1.61
194	S2	15	DG	O3'-P	8.69	1.74	1.61
11	AB	117	DC	O3'-P	8.68	1.74	1.61
11	AB	162	DT	O3'-P	8.68	1.74	1.61
11	AB	437	DG	O3'-P	8.68	1.74	1.61
11	AB	495	DC	O3'-P	8.68	1.74	1.61
11	AB	1430	DC	O3'-P	8.68	1.74	1.61
11	AB	1911	DT	O3'-P	8.68	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2322	DT	O3'-P	8.68	1.74	1.61
11	AB	4559	DA	O3'-P	8.68	1.74	1.61
11	AB	5160	DC	O3'-P	8.68	1.74	1.61
110	J9	16	DC	O3'-P	8.68	1.74	1.61
11	AB	818	DC	O3'-P	8.68	1.74	1.61
11	AB	834	DC	O3'-P	8.68	1.74	1.61
11	AB	1057	DA	O3'-P	8.68	1.74	1.61
11	AB	1243	DC	O3'-P	8.68	1.74	1.61
11	AB	2128	DT	O3'-P	8.68	1.74	1.61
11	AB	4540	DC	O3'-P	8.68	1.74	1.61
11	AB	1971	DG	O3'-P	8.68	1.74	1.61
11	AB	2327	DC	O3'-P	8.68	1.74	1.61
71	G2	5	DC	O3'-P	8.68	1.74	1.61
11	AB	2589	DC	O3'-P	8.68	1.74	1.61
11	AB	2933	DT	O3'-P	8.68	1.74	1.61
11	AB	3076	DC	O3'-P	8.68	1.74	1.61
11	AB	3095	DT	O3'-P	8.68	1.74	1.61
11	AB	4258	DC	O3'-P	8.68	1.74	1.61
11	AB	4598	DC	O3'-P	8.68	1.74	1.61
11	AB	5186	DC	O3'-P	8.68	1.74	1.61
90	HC	12	DC	O3'-P	8.68	1.74	1.61
93	I2	48	DC	O3'-P	8.68	1.74	1.61
180	Q8	11	DC	O3'-P	8.68	1.74	1.61
11	AB	6148	DT	O3'-P	8.68	1.74	1.61
11	AB	6396	DT	O3'-P	8.68	1.74	1.61
11	AB	6485	DC	O3'-P	8.68	1.74	1.61
11	AB	6526	DC	O3'-P	8.68	1.74	1.61
11	AB	6631	DC	O3'-P	8.68	1.74	1.61
11	AB	7206	DC	O3'-P	8.68	1.74	1.61
33	C9	26	DT	O3'-P	8.68	1.74	1.61
43	D8	11	DT	O3'-P	8.68	1.74	1.61
52	E6	8	DA	O3'-P	8.68	1.74	1.61
52	E6	33	DG	O3'-P	8.68	1.74	1.61
56	EA	18	DC	O3'-P	8.68	1.74	1.61
89	HA	24	DG	O3'-P	8.68	1.74	1.61
107	J6	1	DC	O3'-P	8.68	1.74	1.61
108	J7	15	DC	O3'-P	8.68	1.74	1.61
115	K2	18	DC	O3'-P	8.68	1.74	1.61
112	JC	5	DC	O3'-P	8.68	1.74	1.61
113	JD	24	DC	O3'-P	8.68	1.74	1.61
139	M6	17	DC	O3'-P	8.68	1.74	1.61
161	O8	26	DC	O3'-P	8.68	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
187	R5	5	DC	O3'-P	8.68	1.74	1.61
162	O9	7	DC	O3'-P	8.68	1.74	1.61
197	S7	11	DC	O3'-P	8.68	1.74	1.61
236	X5	6	DC	O3'-P	8.68	1.74	1.61
9	A9	2	DT	O3'-P	8.68	1.74	1.61
11	AB	174	DC	O3'-P	8.68	1.74	1.61
11	AB	422	DG	O3'-P	8.68	1.74	1.61
11	AB	967	DC	O3'-P	8.68	1.74	1.61
11	AB	1125	DG	O3'-P	8.68	1.74	1.61
11	AB	1268	DC	O3'-P	8.68	1.74	1.61
11	AB	1272	DT	O3'-P	8.68	1.74	1.61
11	AB	1526	DG	O3'-P	8.68	1.74	1.61
11	AB	1885	DT	O3'-P	8.68	1.74	1.61
11	AB	2415	DG	O3'-P	8.68	1.74	1.61
11	AB	3241	DT	O3'-P	8.68	1.74	1.61
11	AB	3396	DT	O3'-P	8.68	1.74	1.61
11	AB	4368	DC	O3'-P	8.68	1.74	1.61
11	AB	5031	DT	O3'-P	8.68	1.74	1.61
11	AB	6038	DT	O3'-P	8.68	1.74	1.61
11	AB	61	DG	O3'-P	8.68	1.74	1.61
11	AB	66	DT	O3'-P	8.68	1.74	1.61
11	AB	373	DG	O3'-P	8.68	1.74	1.61
11	AB	727	DC	O3'-P	8.68	1.74	1.61
11	AB	3961	DT	O3'-P	8.68	1.74	1.61
11	AB	4079	DT	O3'-P	8.68	1.74	1.61
11	AB	4194	DC	O3'-P	8.68	1.74	1.61
11	AB	4981	DC	O3'-P	8.68	1.74	1.61
11	AB	7245	DC	O3'-P	8.68	1.74	1.61
25	BD	12	DT	O3'-P	8.68	1.74	1.61
30	C6	20	DT	O3'-P	8.68	1.74	1.61
125	L1	22	DT	O3'-P	8.68	1.74	1.61
138	M5	1	DC	O3'-P	8.68	1.74	1.61
150	N7	5	DG	O3'-P	8.68	1.74	1.61
11	AB	1421	DT	O3'-P	8.68	1.74	1.61
11	AB	1463	DT	O3'-P	8.68	1.74	1.61
11	AB	1486	DT	O3'-P	8.68	1.74	1.61
11	AB	1632	DT	O3'-P	8.68	1.74	1.61
11	AB	2254	DT	O3'-P	8.68	1.74	1.61
11	AB	1909	DG	O3'-P	8.68	1.74	1.61
11	AB	2134	DT	O3'-P	8.68	1.74	1.61
11	AB	2302	DT	O3'-P	8.68	1.74	1.61
11	AB	4714	DT	O3'-P	8.68	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
57	EC	10	DG	O3'-P	8.68	1.74	1.61
11	AB	2560	DT	O3'-P	8.68	1.74	1.61
11	AB	2687	DG	O3'-P	8.68	1.74	1.61
11	AB	2789	DA	O3'-P	8.68	1.74	1.61
11	AB	3045	DT	O3'-P	8.68	1.74	1.61
11	AB	3145	DC	O3'-P	8.68	1.74	1.61
11	AB	3166	DC	O3'-P	8.68	1.74	1.61
11	AB	3667	DT	O3'-P	8.68	1.74	1.61
11	AB	4323	DC	O3'-P	8.68	1.74	1.61
11	AB	3668	DT	O3'-P	8.68	1.74	1.61
11	AB	3979	DT	O3'-P	8.68	1.74	1.61
11	AB	5002	DC	O3'-P	8.68	1.74	1.61
11	AB	6699	DT	O3'-P	8.68	1.74	1.61
49	E2	1	DC	O3'-P	8.68	1.74	1.61
11	AB	5270	DT	O3'-P	8.68	1.74	1.61
11	AB	5280	DT	O3'-P	8.68	1.74	1.61
11	AB	6280	DT	O3'-P	8.68	1.74	1.61
11	AB	6366	DT	O3'-P	8.68	1.74	1.61
11	AB	6886	DC	O3'-P	8.68	1.74	1.61
11	AB	6913	DT	O3'-P	8.68	1.74	1.61
31	C7	28	DT	O3'-P	8.68	1.74	1.61
37	D1	32	DC	O3'-P	8.68	1.74	1.61
41	D6	37	DT	O3'-P	8.68	1.74	1.61
74	G6	15	DT	O3'-P	8.68	1.74	1.61
113	JD	4	DG	O3'-P	8.68	1.74	1.61
120	K8	8	DG	O3'-P	8.68	1.74	1.61
125	L1	40	DC	O3'-P	8.68	1.74	1.61
136	M2	12	DT	O3'-P	8.68	1.74	1.61
145	MD	49	DC	O3'-P	8.68	1.74	1.61
152	N9	20	DT	O3'-P	8.68	1.74	1.61
154	NC	1	DC	O3'-P	8.68	1.74	1.61
223	V5	33	DT	O3'-P	8.68	1.74	1.61
154	NC	15	DT	O3'-P	8.68	1.74	1.61
160	O7	24	DT	O3'-P	8.68	1.74	1.61
174	PC	7	DG	O3'-P	8.68	1.74	1.61
184	QD	12	DT	O3'-P	8.68	1.74	1.61
187	R5	18	DG	O3'-P	8.68	1.74	1.61
188	R7	13	DG	O3'-P	8.68	1.74	1.61
199	S9	11	DC	O3'-P	8.68	1.74	1.61
11	AB	121	DT	O3'-P	8.68	1.74	1.61
11	AB	142	DT	O3'-P	8.68	1.74	1.61
11	AB	5045	DG	O3'-P	8.68	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5868	DC	O3'-P	8.68	1.74	1.61
11	AB	108	DT	O3'-P	8.68	1.74	1.61
11	AB	129	DT	O3'-P	8.68	1.74	1.61
11	AB	143	DT	O3'-P	8.68	1.74	1.61
11	AB	236	DC	O3'-P	8.68	1.74	1.61
11	AB	395	DC	O3'-P	8.68	1.74	1.61
11	AB	1053	DG	O3'-P	8.68	1.74	1.61
11	AB	861	DG	O3'-P	8.68	1.74	1.61
11	AB	1354	DT	O3'-P	8.68	1.74	1.61
11	AB	2578	DC	O3'-P	8.68	1.74	1.61
11	AB	5176	DG	O3'-P	8.68	1.74	1.61
11	AB	6033	DT	O3'-P	8.68	1.74	1.61
24	BC	8	DG	O3'-P	8.68	1.74	1.61
29	C5	28	DA	O3'-P	8.68	1.74	1.61
74	G6	14	DT	O3'-P	8.68	1.74	1.61
168	P5	17	DA	O3'-P	8.68	1.74	1.61
189	R8	12	DT	O3'-P	8.68	1.74	1.61
190	R9	28	DG	O3'-P	8.68	1.74	1.61
11	AB	2748	DT	O3'-P	8.68	1.74	1.61
11	AB	2790	DA	O3'-P	8.68	1.74	1.61
11	AB	3200	DT	O3'-P	8.68	1.74	1.61
11	AB	3998	DG	O3'-P	8.68	1.74	1.61
11	AB	4170	DT	O3'-P	8.68	1.74	1.61
11	AB	5187	DC	O3'-P	8.68	1.74	1.61
11	AB	5570	DT	O3'-P	8.68	1.74	1.61
11	AB	5645	DT	O3'-P	8.68	1.74	1.61
11	AB	6203	DT	O3'-P	8.68	1.74	1.61
11	AB	6293	DT	O3'-P	8.68	1.74	1.61
13	AD	36	DT	O3'-P	8.68	1.74	1.61
37	D1	21	DC	O3'-P	8.68	1.74	1.61
94	I3	55	DG	O3'-P	8.68	1.74	1.61
159	O6	14	DT	O3'-P	8.68	1.74	1.61
165	OD	57	DT	O3'-P	8.68	1.74	1.61
5	A5	11	DT	O3'-P	8.67	1.74	1.61
6	A6	19	DT	O3'-P	8.67	1.74	1.61
11	AB	337	DT	O3'-P	8.67	1.74	1.61
11	AB	503	DT	O3'-P	8.67	1.74	1.61
11	AB	840	DC	O3'-P	8.67	1.74	1.61
11	AB	1038	DG	O3'-P	8.67	1.74	1.61
11	AB	1631	DT	O3'-P	8.67	1.74	1.61
11	AB	1835	DG	O3'-P	8.67	1.74	1.61
11	AB	2035	DG	O3'-P	8.67	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2648	DT	O3'-P	8.67	1.74	1.61
11	AB	3639	DT	O3'-P	8.67	1.74	1.61
7	A7	38	DT	O3'-P	8.67	1.74	1.61
11	AB	771	DT	O3'-P	8.67	1.74	1.61
11	AB	1077	DG	O3'-P	8.67	1.74	1.61
11	AB	1191	DG	O3'-P	8.67	1.74	1.61
11	AB	2617	DC	O3'-P	8.67	1.74	1.61
11	AB	2890	DT	O3'-P	8.67	1.74	1.61
11	AB	3778	DG	O3'-P	8.67	1.74	1.61
11	AB	4069	DT	O3'-P	8.67	1.74	1.61
11	AB	7103	DT	O3'-P	8.67	1.74	1.61
11	AB	1226	DC	O3'-P	8.67	1.74	1.61
11	AB	1289	DT	O3'-P	8.67	1.74	1.61
11	AB	1438	DT	O3'-P	8.67	1.74	1.61
11	AB	4135	DC	O3'-P	8.67	1.74	1.61
11	AB	4457	DT	O3'-P	8.67	1.74	1.61
11	AB	5355	DT	O3'-P	8.67	1.74	1.61
18	B5	27	DT	O3'-P	8.67	1.74	1.61
88	H9	30	DG	O3'-P	8.67	1.74	1.61
122	KA	49	DT	O3'-P	8.67	1.74	1.61
139	M6	23	DC	O3'-P	8.67	1.74	1.61
164	OC	12	DC	O3'-P	8.67	1.74	1.61
196	S5	16	DC	O3'-P	8.67	1.74	1.61
11	AB	2243	DT	O3'-P	8.67	1.74	1.61
11	AB	2918	DG	O3'-P	8.67	1.74	1.61
11	AB	3426	DT	O3'-P	8.67	1.74	1.61
11	AB	3987	DC	O3'-P	8.67	1.74	1.61
11	AB	4160	DT	O3'-P	8.67	1.74	1.61
11	AB	4202	DG	O3'-P	8.67	1.74	1.61
11	AB	4642	DC	O3'-P	8.67	1.74	1.61
11	AB	4906	DT	O3'-P	8.67	1.74	1.61
11	AB	4950	DG	O3'-P	8.67	1.74	1.61
11	AB	5329	DT	O3'-P	8.67	1.74	1.61
11	AB	5961	DA	O3'-P	8.67	1.74	1.61
11	AB	6221	DT	O3'-P	8.67	1.74	1.61
11	AB	6378	DC	O3'-P	8.67	1.74	1.61
11	AB	6548	DT	O3'-P	8.67	1.74	1.61
11	AB	6758	DT	O3'-P	8.67	1.74	1.61
11	AB	6826	DC	O3'-P	8.67	1.74	1.61
11	AB	7170	DT	O3'-P	8.67	1.74	1.61
21	B8	5	DT	O3'-P	8.67	1.74	1.61
24	BC	40	DC	O3'-P	8.67	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
59	F1	7	DC	O3'-P	8.67	1.74	1.61
62	F5	40	DT	O3'-P	8.67	1.74	1.61
67	FA	31	DG	O3'-P	8.67	1.74	1.61
98	I8	5	DT	O3'-P	8.67	1.74	1.61
113	JD	31	DC	O3'-P	8.67	1.74	1.61
116	K3	15	DG	O3'-P	8.67	1.74	1.61
147	N3	32	DT	O3'-P	8.67	1.74	1.61
149	N6	46	DC	O3'-P	8.67	1.74	1.61
154	NC	27	DC	O3'-P	8.67	1.74	1.61
166	P2	34	DT	O3'-P	8.67	1.74	1.61
168	P5	4	DC	O3'-P	8.67	1.74	1.61
173	PA	24	DT	O3'-P	8.67	1.74	1.61
205	T5	16	DC	O3'-P	8.67	1.74	1.61
223	V5	1	DC	O3'-P	8.67	1.74	1.61
223	V5	25	DC	O3'-P	8.67	1.74	1.61
1	A1	10	DC	O3'-P	8.67	1.74	1.61
4	A4	10	DG	O3'-P	8.67	1.74	1.61
11	AB	90	DG	O3'-P	8.67	1.74	1.61
11	AB	307	DG	O3'-P	8.67	1.74	1.61
11	AB	396	DC	O3'-P	8.67	1.74	1.61
11	AB	411	DG	O3'-P	8.67	1.74	1.61
11	AB	2661	DA	O3'-P	8.67	1.74	1.61
11	AB	4400	DG	O3'-P	8.67	1.74	1.61
11	AB	6309	DG	O3'-P	8.67	1.74	1.61
167	P3	3	DG	O3'-P	8.67	1.74	1.61
11	AB	407	DG	O3'-P	8.67	1.74	1.61
11	AB	453	DG	O3'-P	8.67	1.74	1.61
11	AB	468	DC	O3'-P	8.67	1.74	1.61
11	AB	855	DG	O3'-P	8.67	1.74	1.61
11	AB	913	DG	O3'-P	8.67	1.74	1.61
11	AB	954	DG	O3'-P	8.67	1.74	1.61
11	AB	1131	DG	O3'-P	8.67	1.74	1.61
11	AB	1824	DG	O3'-P	8.67	1.74	1.61
11	AB	1851	DG	O3'-P	8.67	1.74	1.61
11	AB	1914	DG	O3'-P	8.67	1.74	1.61
11	AB	2014	DG	O3'-P	8.67	1.74	1.61
11	AB	3549	DT	O3'-P	8.67	1.74	1.61
11	AB	6552	DT	O3'-P	8.67	1.74	1.61
11	AB	2660	DT	O3'-P	8.67	1.74	1.61
11	AB	3059	DT	O3'-P	8.67	1.74	1.61
11	AB	3607	DC	O3'-P	8.67	1.74	1.61
11	AB	3837	DG	O3'-P	8.67	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5829	DT	O3'-P	8.67	1.74	1.61
11	AB	6274	DT	O3'-P	8.67	1.74	1.61
12	AC	18	DG	O3'-P	8.67	1.74	1.61
54	E8	13	DT	O3'-P	8.67	1.74	1.61
86	H7	13	DG	O3'-P	8.67	1.74	1.61
173	PA	3	DG	O3'-P	8.67	1.74	1.61
191	RA	6	DG	O3'-P	8.67	1.74	1.61
11	AB	4076	DG	O3'-P	8.67	1.74	1.61
11	AB	4409	DT	O3'-P	8.67	1.74	1.61
11	AB	4491	DT	O3'-P	8.67	1.74	1.61
11	AB	4583	DG	O3'-P	8.67	1.74	1.61
95	I5	5	DT	O3'-P	8.67	1.74	1.61
96	I6	7	DT	O3'-P	8.67	1.74	1.61
11	AB	5531	DC	O3'-P	8.67	1.74	1.61
11	AB	5604	DC	O3'-P	8.67	1.74	1.61
11	AB	5701	DC	O3'-P	8.67	1.74	1.61
11	AB	6244	DG	O3'-P	8.67	1.74	1.61
11	AB	6635	DT	O3'-P	8.67	1.74	1.61
24	BC	15	DG	O3'-P	8.67	1.74	1.61
33	C9	16	DA	O3'-P	8.67	1.74	1.61
81	H1	21	DT	O3'-P	8.67	1.74	1.61
82	H2	19	DC	O3'-P	8.67	1.74	1.61
94	I3	53	DT	O3'-P	8.67	1.74	1.61
123	KC	11	DG	O3'-P	8.67	1.74	1.61
126	L2	57	DA	O3'-P	8.67	1.74	1.61
152	N9	2	DG	O3'-P	8.67	1.74	1.61
156	O2	52	DC	O3'-P	8.67	1.74	1.61
164	OC	23	DC	O3'-P	8.67	1.74	1.61
166	P2	28	DG	O3'-P	8.67	1.74	1.61
179	Q7	22	DG	O3'-P	8.67	1.74	1.61
217	U9	23	DG	O3'-P	8.67	1.74	1.61
230	W3	38	DG	O3'-P	8.67	1.74	1.61
11	AB	74	DT	O3'-P	8.67	1.74	1.61
11	AB	939	DG	O3'-P	8.67	1.74	1.61
11	AB	1943	DG	O3'-P	8.67	1.74	1.61
11	AB	3370	DC	O3'-P	8.67	1.74	1.61
11	AB	5078	DC	O3'-P	8.67	1.74	1.61
11	AB	705	DT	O3'-P	8.67	1.74	1.61
11	AB	796	DT	O3'-P	8.67	1.74	1.61
11	AB	1653	DT	O3'-P	8.67	1.74	1.61
11	AB	1927	DG	O3'-P	8.67	1.74	1.61
11	AB	2140	DT	O3'-P	8.67	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2226	DT	O3'-P	8.67	1.74	1.61
11	AB	3385	DT	O3'-P	8.67	1.74	1.61
11	AB	3389	DT	O3'-P	8.67	1.74	1.61
11	AB	4033	DT	O3'-P	8.67	1.74	1.61
166	P2	18	DT	O3'-P	8.67	1.74	1.61
11	AB	4487	DC	O3'-P	8.67	1.74	1.61
11	AB	4524	DG	O3'-P	8.67	1.74	1.61
11	AB	5135	DC	O3'-P	8.67	1.74	1.61
197	S7	20	DC	O3'-P	8.67	1.74	1.61
11	AB	4842	DG	O3'-P	8.67	1.74	1.61
11	AB	5525	DC	O3'-P	8.67	1.74	1.61
11	AB	5558	DT	O3'-P	8.67	1.74	1.61
11	AB	5644	DT	O3'-P	8.67	1.74	1.61
11	AB	5869	DC	O3'-P	8.67	1.74	1.61
11	AB	6218	DG	O3'-P	8.67	1.74	1.61
11	AB	6282	DT	O3'-P	8.67	1.74	1.61
11	AB	6786	DC	O3'-P	8.67	1.74	1.61
44	D9	28	DC	O3'-P	8.67	1.74	1.61
69	FD	8	DG	O3'-P	8.67	1.74	1.61
110	J9	6	DA	O3'-P	8.67	1.74	1.61
72	G3	24	DC	O3'-P	8.67	1.74	1.61
82	H2	10	DT	O3'-P	8.67	1.74	1.61
104	J2	10	DC	O3'-P	8.67	1.74	1.61
122	KA	36	DT	O3'-P	8.67	1.74	1.61
126	L2	21	DT	O3'-P	8.67	1.74	1.61
130	L7	45	DT	O3'-P	8.67	1.74	1.61
126	L2	45	DG	O3'-P	8.67	1.74	1.61
127	L3	4	DG	O3'-P	8.67	1.74	1.61
187	R5	6	DC	O3'-P	8.67	1.74	1.61
192	RC	7	DG	O3'-P	8.67	1.74	1.61
194	S2	29	DG	O3'-P	8.67	1.74	1.61
209	TA	5	DG	O3'-P	8.67	1.74	1.61
214	U5	9	DC	O3'-P	8.67	1.74	1.61
11	AB	781	DG	O3'-P	8.66	1.74	1.61
11	AB	843	DC	O3'-P	8.66	1.74	1.61
11	AB	945	DG	O3'-P	8.66	1.74	1.61
11	AB	1465	DC	O3'-P	8.66	1.74	1.61
11	AB	1878	DT	O3'-P	8.66	1.74	1.61
11	AB	2376	DT	O3'-P	8.66	1.74	1.61
11	AB	4157	DT	O3'-P	8.66	1.74	1.61
8	A8	13	DT	O3'-P	8.66	1.74	1.61
10	AA	26	DG	O3'-P	8.66	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	14	DG	O3'-P	8.66	1.74	1.61
11	AB	1034	DA	O3'-P	8.66	1.74	1.61
11	AB	1209	DC	O3'-P	8.66	1.74	1.61
11	AB	1293	DC	O3'-P	8.66	1.74	1.61
11	AB	1571	DG	O3'-P	8.66	1.74	1.61
11	AB	1702	DG	O3'-P	8.66	1.74	1.61
11	AB	3460	DG	O3'-P	8.66	1.74	1.61
11	AB	4246	DA	O3'-P	8.66	1.74	1.61
11	AB	4572	DG	O3'-P	8.66	1.74	1.61
11	AB	4909	DC	O3'-P	8.66	1.74	1.61
11	AB	5605	DC	O3'-P	8.66	1.74	1.61
11	AB	5670	DT	O3'-P	8.66	1.74	1.61
11	AB	5702	DC	O3'-P	8.66	1.74	1.61
11	AB	6345	DG	O3'-P	8.66	1.74	1.61
11	AB	6571	DC	O3'-P	8.66	1.74	1.61
11	AB	6684	DC	O3'-P	8.66	1.74	1.61
11	AB	6776	DT	O3'-P	8.66	1.74	1.61
11	AB	7132	DT	O3'-P	8.66	1.74	1.61
11	AB	7216	DG	O3'-P	8.66	1.74	1.61
21	B8	1	DT	O3'-P	8.66	1.74	1.61
23	BA	6	DT	O3'-P	8.66	1.74	1.61
32	C8	26	DC	O3'-P	8.66	1.74	1.61
52	E6	20	DC	O3'-P	8.66	1.74	1.61
109	J8	22	DT	O3'-P	8.66	1.74	1.61
119	K7	17	DC	O3'-P	8.66	1.74	1.61
166	P2	17	DT	O3'-P	8.66	1.74	1.61
181	Q9	33	DT	O3'-P	8.66	1.74	1.61
194	S2	27	DT	O3'-P	8.66	1.74	1.61
11	AB	2132	DT	O3'-P	8.66	1.74	1.61
11	AB	3403	DT	O3'-P	8.66	1.74	1.61
11	AB	3698	DC	O3'-P	8.66	1.74	1.61
11	AB	4185	DC	O3'-P	8.66	1.74	1.61
11	AB	4357	DG	O3'-P	8.66	1.74	1.61
11	AB	4864	DG	O3'-P	8.66	1.74	1.61
11	AB	5268	DT	O3'-P	8.66	1.74	1.61
11	AB	5843	DT	O3'-P	8.66	1.74	1.61
11	AB	6149	DT	O3'-P	8.66	1.74	1.61
11	AB	6205	DT	O3'-P	8.66	1.74	1.61
11	AB	6379	DC	O3'-P	8.66	1.74	1.61
32	C8	4	DG	O3'-P	8.66	1.74	1.61
37	D1	18	DC	O3'-P	8.66	1.74	1.61
45	DA	18	DC	O3'-P	8.66	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
61	F3	20	DC	O3'-P	8.66	1.74	1.61
96	I6	8	DT	O3'-P	8.66	1.74	1.61
85	H6	22	DC	O3'-P	8.66	1.74	1.61
102	ID	14	DT	O3'-P	8.66	1.74	1.61
124	KD	21	DT	O3'-P	8.66	1.74	1.61
147	N3	19	DG	O3'-P	8.66	1.74	1.61
154	NC	12	DT	O3'-P	8.66	1.74	1.61
158	O5	19	DC	O3'-P	8.66	1.74	1.61
167	P3	14	DT	O3'-P	8.66	1.74	1.61
181	Q9	34	DT	O3'-P	8.66	1.74	1.61
184	QD	10	DT	O3'-P	8.66	1.74	1.61
200	SA	6	DG	O3'-P	8.66	1.74	1.61
230	W3	32	DT	O3'-P	8.66	1.74	1.61
2	A2	12	DC	O3'-P	8.66	1.74	1.61
11	AB	622	DG	O3'-P	8.66	1.74	1.61
11	AB	768	DG	O3'-P	8.66	1.74	1.61
11	AB	987	DA	O3'-P	8.66	1.74	1.61
11	AB	1587	DT	O3'-P	8.66	1.74	1.61
11	AB	2046	DT	O3'-P	8.66	1.74	1.61
11	AB	3867	DT	O3'-P	8.66	1.74	1.61
11	AB	4340	DC	O3'-P	8.66	1.74	1.61
11	AB	5349	DT	O3'-P	8.66	1.74	1.61
14	B1	23	DA	O3'-P	8.66	1.74	1.61
35	CC	31	DG	O3'-P	8.66	1.74	1.61
92	I1	22	DG	O3'-P	8.66	1.74	1.61
118	K6	15	DC	O3'-P	8.66	1.74	1.61
173	PA	36	DG	O3'-P	8.66	1.74	1.61
223	V5	10	DG	O3'-P	8.66	1.74	1.61
11	AB	109	DT	O3'-P	8.66	1.74	1.61
11	AB	385	DG	O3'-P	8.66	1.74	1.61
11	AB	635	DG	O3'-P	8.66	1.74	1.61
11	AB	1106	DT	O3'-P	8.66	1.74	1.61
11	AB	1175	DC	O3'-P	8.66	1.74	1.61
11	AB	3366	DT	O3'-P	8.66	1.74	1.61
11	AB	3383	DT	O3'-P	8.66	1.74	1.61
11	AB	4014	DT	O3'-P	8.66	1.74	1.61
11	AB	4052	DC	O3'-P	8.66	1.74	1.61
11	AB	4968	DC	O3'-P	8.66	1.74	1.61
11	AB	4982	DC	O3'-P	8.66	1.74	1.61
11	AB	5177	DC	O3'-P	8.66	1.74	1.61
11	AB	5365	DG	O3'-P	8.66	1.74	1.61
11	AB	6491	DG	O3'-P	8.66	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5423	DT	O3'-P	8.66	1.74	1.61
11	AB	5542	DT	O3'-P	8.66	1.74	1.61
11	AB	5556	DG	O3'-P	8.66	1.74	1.61
11	AB	7162	DT	O3'-P	8.66	1.74	1.61
28	C3	22	DA	O3'-P	8.66	1.74	1.61
47	DD	10	DC	O3'-P	8.66	1.74	1.61
125	L1	6	DG	O3'-P	8.66	1.74	1.61
135	LD	11	DA	O3'-P	8.66	1.74	1.61
52	E6	23	DC	O3'-P	8.66	1.74	1.61
62	F5	44	DT	O3'-P	8.66	1.74	1.61
79	GC	3	DG	O3'-P	8.66	1.74	1.61
136	M2	18	DG	O3'-P	8.66	1.74	1.61
141	M8	29	DT	O3'-P	8.66	1.74	1.61
181	Q9	38	DC	O3'-P	8.66	1.74	1.61
185	R2	11	DG	O3'-P	8.66	1.74	1.61
187	R5	4	DG	O3'-P	8.66	1.74	1.61
209	TA	12	DG	O3'-P	8.66	1.74	1.61
236	X5	11	DT	O3'-P	8.66	1.74	1.61
194	S2	9	DT	O3'-P	8.66	1.74	1.61
11	AB	160	DT	O3'-P	8.66	1.74	1.61
11	AB	438	DG	O3'-P	8.66	1.74	1.61
11	AB	4458	DT	O3'-P	8.66	1.74	1.61
11	AB	444	DG	O3'-P	8.66	1.74	1.61
11	AB	452	DG	O3'-P	8.66	1.74	1.61
11	AB	550	DA	O3'-P	8.66	1.74	1.61
11	AB	816	DG	O3'-P	8.66	1.74	1.61
11	AB	1244	DC	O3'-P	8.66	1.74	1.61
11	AB	1863	DG	O3'-P	8.66	1.74	1.61
11	AB	2293	DT	O3'-P	8.66	1.74	1.61
11	AB	2344	DG	O3'-P	8.66	1.74	1.61
11	AB	3233	DT	O3'-P	8.66	1.74	1.61
11	AB	3588	DT	O3'-P	8.66	1.74	1.61
11	AB	4515	DG	O3'-P	8.66	1.74	1.61
11	AB	5341	DT	O3'-P	8.66	1.74	1.61
14	B1	2	DG	O3'-P	8.66	1.74	1.61
11	AB	507	DT	O3'-P	8.66	1.74	1.61
11	AB	659	DG	O3'-P	8.66	1.74	1.61
11	AB	963	DG	O3'-P	8.66	1.74	1.61
11	AB	1161	DG	O3'-P	8.66	1.74	1.61
11	AB	1169	DT	O3'-P	8.66	1.74	1.61
11	AB	1415	DG	O3'-P	8.66	1.74	1.61
11	AB	2048	DT	O3'-P	8.66	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2697	DG	O3'-P	8.66	1.74	1.61
11	AB	3123	DG	O3'-P	8.66	1.74	1.61
48	E1	16	DC	O3'-P	8.66	1.74	1.61
11	AB	3351	DC	O3'-P	8.66	1.74	1.61
11	AB	3357	DA	O3'-P	8.66	1.74	1.61
11	AB	3404	DT	O3'-P	8.66	1.74	1.61
11	AB	3744	DT	O3'-P	8.66	1.74	1.61
11	AB	5009	DG	O3'-P	8.66	1.74	1.61
11	AB	5206	DT	O3'-P	8.66	1.74	1.61
11	AB	5358	DA	O3'-P	8.66	1.74	1.61
11	AB	5684	DT	O3'-P	8.66	1.74	1.61
11	AB	6266	DT	O3'-P	8.66	1.74	1.61
11	AB	6816	DG	O3'-P	8.66	1.74	1.61
27	C2	6	DG	O3'-P	8.66	1.74	1.61
32	C8	29	DC	O3'-P	8.66	1.74	1.61
33	C9	15	DT	O3'-P	8.66	1.74	1.61
43	D8	17	DC	O3'-P	8.66	1.74	1.61
57	EC	11	DG	O3'-P	8.66	1.74	1.61
69	FD	2	DG	O3'-P	8.66	1.74	1.61
85	H6	21	DG	O3'-P	8.66	1.74	1.61
100	IA	14	DT	O3'-P	8.66	1.74	1.61
117	K5	21	DC	O3'-P	8.66	1.74	1.61
141	M8	28	DT	O3'-P	8.66	1.74	1.61
144	MC	8	DG	O3'-P	8.66	1.74	1.61
144	MC	12	DG	O3'-P	8.66	1.74	1.61
196	S5	20	DC	O3'-P	8.66	1.74	1.61
147	N3	29	DC	O3'-P	8.66	1.74	1.61
178	Q5	20	DT	O3'-P	8.66	1.74	1.61
205	T5	17	DC	O3'-P	8.66	1.74	1.61
11	AB	18	DG	O3'-P	8.65	1.74	1.61
11	AB	4568	DC	O3'-P	8.65	1.74	1.61
46	DC	8	DG	O3'-P	8.65	1.74	1.61
58	ED	22	DC	O3'-P	8.65	1.74	1.61
6	A6	16	DC	O3'-P	8.65	1.74	1.61
11	AB	99	DC	O3'-P	8.65	1.74	1.61
11	AB	159	DT	O3'-P	8.65	1.74	1.61
11	AB	548	DG	O3'-P	8.65	1.74	1.61
60	F2	8	DT	O3'-P	8.65	1.74	1.61
11	AB	493	DT	O3'-P	8.65	1.74	1.61
11	AB	660	DG	O3'-P	8.65	1.74	1.61
11	AB	1008	DG	O3'-P	8.65	1.74	1.61
11	AB	1040	DG	O3'-P	8.65	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1613	DG	O3'-P	8.65	1.74	1.61
11	AB	1766	DT	O3'-P	8.65	1.74	1.61
11	AB	1783	DT	O3'-P	8.65	1.74	1.61
11	AB	2603	DG	O3'-P	8.65	1.74	1.61
11	AB	2042	DT	O3'-P	8.65	1.74	1.61
11	AB	2247	DT	O3'-P	8.65	1.74	1.61
11	AB	3090	DT	O3'-P	8.65	1.74	1.61
11	AB	3596	DT	O3'-P	8.65	1.74	1.61
11	AB	3781	DG	O3'-P	8.65	1.74	1.61
11	AB	4176	DC	O3'-P	8.65	1.74	1.61
40	D5	24	DG	O3'-P	8.65	1.74	1.61
151	N8	15	DG	O3'-P	8.65	1.74	1.61
11	AB	4116	DC	O3'-P	8.65	1.74	1.61
11	AB	4571	DG	O3'-P	8.65	1.74	1.61
11	AB	4715	DT	O3'-P	8.65	1.74	1.61
11	AB	4826	DC	O3'-P	8.65	1.74	1.61
11	AB	4987	DC	O3'-P	8.65	1.74	1.61
11	AB	5330	DT	O3'-P	8.65	1.74	1.61
11	AB	6306	DG	O3'-P	8.65	1.74	1.61
11	AB	6307	DG	O3'-P	8.65	1.74	1.61
42	D7	19	DG	O3'-P	8.65	1.74	1.61
11	AB	6386	DG	O3'-P	8.65	1.74	1.61
11	AB	6828	DT	O3'-P	8.65	1.74	1.61
20	B7	6	DT	O3'-P	8.65	1.74	1.61
28	C3	20	DG	O3'-P	8.65	1.74	1.61
54	E8	12	DT	O3'-P	8.65	1.74	1.61
66	F9	15	DG	O3'-P	8.65	1.74	1.61
71	G2	12	DA	O3'-P	8.65	1.74	1.61
76	G8	18	DG	O3'-P	8.65	1.74	1.61
156	O2	48	DC	O3'-P	8.65	1.74	1.61
78	GA	2	DG	O3'-P	8.65	1.74	1.61
80	GD	19	DG	O3'-P	8.65	1.74	1.61
84	H5	35	DC	O3'-P	8.65	1.74	1.61
95	I5	40	DT	O3'-P	8.65	1.74	1.61
156	O2	34	DT	O3'-P	8.65	1.74	1.61
173	PA	10	DC	O3'-P	8.65	1.74	1.61
191	RA	5	DG	O3'-P	8.65	1.74	1.61
197	S7	4	DC	O3'-P	8.65	1.74	1.61
211	TD	14	DT	O3'-P	8.65	1.74	1.61
217	U9	7	DG	O3'-P	8.65	1.74	1.61
232	W7	10	DT	O3'-P	8.65	1.74	1.61
11	AB	328	DG	O3'-P	8.65	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	556	DC	O3'-P	8.65	1.74	1.61
11	AB	1977	DG	O3'-P	8.65	1.74	1.61
11	AB	2381	DT	O3'-P	8.65	1.74	1.61
11	AB	2391	DG	O3'-P	8.65	1.74	1.61
11	AB	2544	DG	O3'-P	8.65	1.74	1.61
11	AB	2625	DT	O3'-P	8.65	1.74	1.61
11	AB	2738	DT	O3'-P	8.65	1.74	1.61
11	AB	3869	DT	O3'-P	8.65	1.74	1.61
11	AB	4706	DC	O3'-P	8.65	1.74	1.61
11	AB	5848	DG	O3'-P	8.65	1.74	1.61
26	C1	5	DT	O3'-P	8.65	1.74	1.61
37	D1	2	DT	O3'-P	8.65	1.74	1.61
68	FC	3	DT	O3'-P	8.65	1.74	1.61
70	G1	6	DG	O3'-P	8.65	1.74	1.61
148	N5	13	DT	O3'-P	8.65	1.74	1.61
200	SA	26	DG	O3'-P	8.65	1.74	1.61
11	AB	4277	DG	O3'-P	8.65	1.74	1.61
11	AB	4392	DT	O3'-P	8.65	1.74	1.61
11	AB	4574	DG	O3'-P	8.65	1.74	1.61
11	AB	4966	DG	O3'-P	8.65	1.74	1.61
11	AB	5101	DC	O3'-P	8.65	1.74	1.61
11	AB	5593	DG	O3'-P	8.65	1.74	1.61
11	AB	5616	DT	O3'-P	8.65	1.74	1.61
11	AB	5636	DG	O3'-P	8.65	1.74	1.61
52	E6	22	DC	O3'-P	8.65	1.74	1.61
96	I6	11	DT	O3'-P	8.65	1.74	1.61
11	AB	6099	DG	O3'-P	8.65	1.74	1.61
11	AB	6337	DG	O3'-P	8.65	1.74	1.61
11	AB	6873	DG	O3'-P	8.65	1.74	1.61
32	C8	25	DG	O3'-P	8.65	1.74	1.61
43	D8	12	DT	O3'-P	8.65	1.74	1.61
65	F8	9	DC	O3'-P	8.65	1.74	1.61
208	T9	8	DA	O3'-P	8.65	1.74	1.61
78	GA	12	DG	O3'-P	8.65	1.74	1.61
88	H9	11	DG	O3'-P	8.65	1.74	1.61
111	JA	12	DG	O3'-P	8.65	1.74	1.61
156	O2	43	DT	O3'-P	8.65	1.74	1.61
178	Q5	3	DC	O3'-P	8.65	1.74	1.61
192	RC	17	DT	O3'-P	8.65	1.74	1.61
200	SA	12	DG	O3'-P	8.65	1.74	1.61
212	U2	24	DA	O3'-P	8.65	1.74	1.61
219	UC	15	DT	O3'-P	8.65	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
232	W7	13	DT	O3'-P	8.65	1.74	1.61
233	W8	6	DT	O3'-P	8.65	1.74	1.61
2	A2	15	DT	O3'-P	8.65	1.74	1.61
11	AB	1001	DT	O3'-P	8.65	1.74	1.61
11	AB	1455	DT	O3'-P	8.65	1.74	1.61
11	AB	1748	DT	O3'-P	8.65	1.74	1.61
11	AB	1978	DG	O3'-P	8.65	1.74	1.61
11	AB	2137	DT	O3'-P	8.65	1.74	1.61
11	AB	2559	DT	O3'-P	8.65	1.74	1.61
11	AB	4219	DC	O3'-P	8.65	1.74	1.61
11	AB	4937	DC	O3'-P	8.65	1.74	1.61
11	AB	5550	DT	O3'-P	8.65	1.74	1.61
11	AB	5719	DG	O3'-P	8.65	1.74	1.61
11	AB	6367	DT	O3'-P	8.65	1.74	1.61
11	AB	6700	DT	O3'-P	8.65	1.74	1.61
36	CD	6	DG	O3'-P	8.65	1.74	1.61
86	H7	22	DC	O3'-P	8.65	1.74	1.61
125	L1	23	DT	O3'-P	8.65	1.74	1.61
11	AB	423	DG	O3'-P	8.65	1.74	1.61
11	AB	426	DG	O3'-P	8.65	1.74	1.61
109	J8	46	DA	O3'-P	8.65	1.74	1.61
125	L1	49	DG	O3'-P	8.65	1.74	1.61
127	L3	7	DT	O3'-P	8.65	1.74	1.61
141	M8	18	DC	O3'-P	8.65	1.74	1.61
154	NC	16	DT	O3'-P	8.65	1.74	1.61
160	O7	47	DG	O3'-P	8.65	1.74	1.61
187	R5	33	DC	O3'-P	8.65	1.74	1.61
192	RC	11	DG	O3'-P	8.65	1.74	1.61
211	TD	33	DT	O3'-P	8.65	1.74	1.61
227	VA	13	DT	O3'-P	8.65	1.74	1.61
11	AB	555	DC	O3'-P	8.65	1.74	1.61
11	AB	1673	DC	O3'-P	8.65	1.74	1.61
11	AB	2394	DT	O3'-P	8.65	1.74	1.61
11	AB	2756	DT	O3'-P	8.65	1.74	1.61
11	AB	2770	DC	O3'-P	8.65	1.74	1.61
11	AB	3475	DG	O3'-P	8.65	1.74	1.61
11	AB	3542	DG	O3'-P	8.65	1.74	1.61
11	AB	3580	DA	O3'-P	8.65	1.74	1.61
47	DD	29	DG	O3'-P	8.65	1.74	1.61
11	AB	4031	DT	O3'-P	8.65	1.74	1.61
11	AB	4169	DT	O3'-P	8.65	1.74	1.61
11	AB	4538	DG	O3'-P	8.65	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5036	DG	O3'-P	8.65	1.74	1.61
11	AB	5180	DT	O3'-P	8.65	1.74	1.61
11	AB	5198	DC	O3'-P	8.65	1.74	1.61
11	AB	6189	DG	O3'-P	8.65	1.74	1.61
11	AB	6761	DT	O3'-P	8.65	1.74	1.61
11	AB	7083	DG	O3'-P	8.65	1.74	1.61
31	C7	30	DG	O3'-P	8.65	1.74	1.61
51	E5	32	DT	O3'-P	8.65	1.74	1.61
73	G5	1	DC	O3'-P	8.65	1.74	1.61
88	H9	14	DG	O3'-P	8.65	1.74	1.61
88	H9	22	DG	O3'-P	8.65	1.74	1.61
97	I7	31	DG	O3'-P	8.65	1.74	1.61
119	K7	14	DA	O3'-P	8.65	1.74	1.61
143	MA	26	DC	O3'-P	8.65	1.74	1.61
149	N6	49	DG	O3'-P	8.65	1.74	1.61
159	O6	8	DC	O3'-P	8.65	1.74	1.61
161	O8	53	DG	O3'-P	8.65	1.74	1.61
174	PC	11	DG	O3'-P	8.65	1.74	1.61
195	S3	7	DG	O3'-P	8.65	1.74	1.61
206	T7	54	DG	O3'-P	8.65	1.74	1.61
4	A4	30	DT	O3'-P	8.64	1.74	1.61
8	A8	8	DT	O3'-P	8.64	1.74	1.61
11	AB	1412	DT	O3'-P	8.64	1.74	1.61
11	AB	1671	DT	O3'-P	8.64	1.74	1.61
11	AB	1898	DG	O3'-P	8.64	1.74	1.61
11	AB	2231	DT	O3'-P	8.64	1.74	1.61
11	AB	2311	DG	O3'-P	8.64	1.74	1.61
11	AB	3367	DT	O3'-P	8.64	1.74	1.61
11	AB	5125	DT	O3'-P	8.64	1.74	1.61
30	C6	44	DG	O3'-P	8.64	1.74	1.61
31	C7	26	DT	O3'-P	8.64	1.74	1.61
113	JD	34	DT	O3'-P	8.64	1.74	1.61
11	AB	163	DT	O3'-P	8.64	1.74	1.61
11	AB	917	DT	O3'-P	8.64	1.74	1.61
11	AB	927	DG	O3'-P	8.64	1.74	1.61
11	AB	969	DG	O3'-P	8.64	1.74	1.61
11	AB	1027	DC	O3'-P	8.64	1.74	1.61
11	AB	1892	DC	O3'-P	8.64	1.74	1.61
11	AB	1896	DC	O3'-P	8.64	1.74	1.61
11	AB	2039	DT	O3'-P	8.64	1.74	1.61
11	AB	2257	DT	O3'-P	8.64	1.74	1.61
11	AB	2373	DG	O3'-P	8.64	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2768	DT	O3'-P	8.64	1.74	1.61
11	AB	3201	DT	O3'-P	8.64	1.74	1.61
11	AB	3798	DT	O3'-P	8.64	1.74	1.61
11	AB	3969	DT	O3'-P	8.64	1.74	1.61
108	J7	30	DG	O3'-P	8.64	1.74	1.61
11	AB	3978	DT	O3'-P	8.64	1.74	1.61
11	AB	4038	DG	O3'-P	8.64	1.74	1.61
11	AB	4206	DT	O3'-P	8.64	1.74	1.61
11	AB	5342	DT	O3'-P	8.64	1.74	1.61
11	AB	6368	DT	O3'-P	8.64	1.74	1.61
11	AB	6728	DG	O3'-P	8.64	1.74	1.61
11	AB	6971	DT	O3'-P	8.64	1.74	1.61
11	AB	7065	DG	O3'-P	8.64	1.74	1.61
26	C1	1	DC	O3'-P	8.64	1.74	1.61
28	C3	9	DT	O3'-P	8.64	1.74	1.61
48	E1	17	DC	O3'-P	8.64	1.74	1.61
48	E1	24	DC	O3'-P	8.64	1.74	1.61
58	ED	15	DT	O3'-P	8.64	1.74	1.61
85	H6	2	DT	O3'-P	8.64	1.74	1.61
87	H8	11	DC	O3'-P	8.64	1.74	1.61
91	HD	25	DG	O3'-P	8.64	1.74	1.61
109	J8	33	DG	O3'-P	8.64	1.74	1.61
113	JD	20	DT	O3'-P	8.64	1.74	1.61
150	N7	11	DC	O3'-P	8.64	1.74	1.61
152	N9	6	DT	O3'-P	8.64	1.74	1.61
155	ND	13	DG	O3'-P	8.64	1.74	1.61
162	O9	19	DT	O3'-P	8.64	1.74	1.61
184	QD	4	DC	O3'-P	8.64	1.74	1.61
197	S7	12	DC	O3'-P	8.64	1.74	1.61
202	SD	15	DG	O3'-P	8.64	1.74	1.61
3	A3	13	DG	O3'-P	8.64	1.74	1.61
11	AB	283	DT	O3'-P	8.64	1.74	1.61
11	AB	2885	DG	O3'-P	8.64	1.74	1.61
11	AB	4227	DG	O3'-P	8.64	1.74	1.61
11	AB	4276	DG	O3'-P	8.64	1.74	1.61
11	AB	4454	DG	O3'-P	8.64	1.74	1.61
11	AB	6926	DA	O3'-P	8.64	1.74	1.61
14	B1	32	DG	O3'-P	8.64	1.74	1.61
22	B9	48	DT	O3'-P	8.64	1.74	1.61
211	TD	34	DT	O3'-P	8.64	1.74	1.61
11	AB	4607	DG	O3'-P	8.64	1.74	1.61
11	AB	4731	DG	O3'-P	8.64	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
77	G9	18	DG	O3'-P	8.64	1.74	1.61
11	AB	4959	DG	O3'-P	8.64	1.74	1.61
11	AB	4971	DG	O3'-P	8.64	1.74	1.61
11	AB	5201	DA	O3'-P	8.64	1.74	1.61
11	AB	5751	DT	O3'-P	8.64	1.74	1.61
11	AB	6704	DT	O3'-P	8.64	1.74	1.61
11	AB	7007	DT	O3'-P	8.64	1.74	1.61
11	AB	6117	DC	O3'-P	8.64	1.74	1.61
11	AB	6143	DT	O3'-P	8.64	1.74	1.61
11	AB	6729	DG	O3'-P	8.64	1.74	1.61
11	AB	7016	DG	O3'-P	8.64	1.74	1.61
32	C8	46	DG	O3'-P	8.64	1.74	1.61
33	C9	1	DG	O3'-P	8.64	1.74	1.61
37	D1	5	DT	O3'-P	8.64	1.74	1.61
60	F2	10	DT	O3'-P	8.64	1.74	1.61
196	S5	13	DG	O3'-P	8.64	1.74	1.61
44	D9	27	DG	O3'-P	8.64	1.74	1.61
58	ED	31	DG	O3'-P	8.64	1.74	1.61
66	F9	11	DA	O3'-P	8.64	1.74	1.61
71	G2	19	DA	O3'-P	8.64	1.74	1.61
72	G3	14	DG	O3'-P	8.64	1.74	1.61
88	H9	16	DG	O3'-P	8.64	1.74	1.61
98	I8	16	DT	O3'-P	8.64	1.74	1.61
101	IC	5	DG	O3'-P	8.64	1.74	1.61
103	J1	24	DG	O3'-P	8.64	1.74	1.61
114	K1	20	DT	O3'-P	8.64	1.74	1.61
119	K7	3	DG	O3'-P	8.64	1.74	1.61
134	LC	18	DG	O3'-P	8.64	1.74	1.61
160	O7	20	DC	O3'-P	8.64	1.74	1.61
182	QA	12	DT	O3'-P	8.64	1.74	1.61
183	QC	10	DG	O3'-P	8.64	1.74	1.61
185	R2	19	DG	O3'-P	8.64	1.74	1.61
188	R7	14	DG	O3'-P	8.64	1.74	1.61
203	T2	13	DG	O3'-P	8.64	1.74	1.61
204	T3	8	DC	O3'-P	8.64	1.74	1.61
213	U3	5	DG	O3'-P	8.64	1.74	1.61
229	VD	7	DG	O3'-P	8.64	1.74	1.61
11	AB	127	DC	O3'-P	8.64	1.74	1.61
11	AB	5775	DT	O3'-P	8.64	1.74	1.61
11	AB	523	DA	O3'-P	8.64	1.74	1.61
11	AB	542	DT	O3'-P	8.64	1.74	1.61
11	AB	638	DG	O3'-P	8.64	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	966	DT	O3'-P	8.64	1.74	1.61
11	AB	1143	DG	O3'-P	8.64	1.74	1.61
11	AB	1572	DG	O3'-P	8.64	1.74	1.61
37	D1	24	DC	O3'-P	8.64	1.74	1.61
11	AB	2149	DT	O3'-P	8.64	1.74	1.61
11	AB	2232	DT	O3'-P	8.64	1.74	1.61
11	AB	2355	DG	O3'-P	8.64	1.74	1.61
217	U9	20	DG	O3'-P	8.64	1.74	1.61
11	AB	2307	DT	O3'-P	8.64	1.74	1.61
11	AB	2612	DT	O3'-P	8.64	1.74	1.61
11	AB	3054	DT	O3'-P	8.64	1.74	1.61
11	AB	3473	DG	O3'-P	8.64	1.74	1.61
11	AB	4390	DC	O3'-P	8.64	1.74	1.61
11	AB	4737	DT	O3'-P	8.64	1.74	1.61
11	AB	4957	DT	O3'-P	8.64	1.74	1.61
11	AB	4980	DG	O3'-P	8.64	1.74	1.61
11	AB	5253	DG	O3'-P	8.64	1.74	1.61
11	AB	5288	DG	O3'-P	8.64	1.74	1.61
11	AB	5495	DT	O3'-P	8.64	1.74	1.61
11	AB	6360	DT	O3'-P	8.64	1.74	1.61
38	D2	12	DC	O3'-P	8.64	1.74	1.61
84	H5	6	DG	O3'-P	8.64	1.74	1.61
99	I9	24	DG	O3'-P	8.64	1.74	1.61
11	AB	5969	DT	O3'-P	8.64	1.74	1.61
11	AB	6042	DG	O3'-P	8.64	1.74	1.61
11	AB	6468	DT	O3'-P	8.64	1.74	1.61
23	BA	8	DC	O3'-P	8.64	1.74	1.61
30	C6	11	DC	O3'-P	8.64	1.74	1.61
34	CA	6	DT	O3'-P	8.64	1.74	1.61
48	E1	22	DT	O3'-P	8.64	1.74	1.61
122	KA	38	DT	O3'-P	8.64	1.74	1.61
136	M2	3	DT	O3'-P	8.64	1.74	1.61
196	S5	31	DT	O3'-P	8.64	1.74	1.61
50	E3	8	DT	O3'-P	8.64	1.74	1.61
62	F5	45	DT	O3'-P	8.64	1.74	1.61
90	HC	7	DG	O3'-P	8.64	1.74	1.61
94	I3	25	DT	O3'-P	8.64	1.74	1.61
112	JC	1	DG	O3'-P	8.64	1.74	1.61
130	L7	3	DT	O3'-P	8.64	1.74	1.61
141	M8	22	DT	O3'-P	8.64	1.74	1.61
145	MD	39	DC	O3'-P	8.64	1.74	1.61
158	O5	8	DT	O3'-P	8.64	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
176	Q2	17	DT	O3'-P	8.64	1.74	1.61
178	Q5	29	DG	O3'-P	8.64	1.74	1.61
180	Q8	5	DG	O3'-P	8.64	1.74	1.61
188	R7	8	DG	O3'-P	8.64	1.74	1.61
209	TA	35	DT	O3'-P	8.64	1.74	1.61
193	RD	21	DT	O3'-P	8.64	1.74	1.61
206	T7	9	DG	O3'-P	8.64	1.74	1.61
210	TC	7	DT	O3'-P	8.64	1.74	1.61
225	V8	18	DT	O3'-P	8.64	1.74	1.61
5	A5	30	DC	O3'-P	8.63	1.74	1.61
11	AB	1104	DG	O3'-P	8.64	1.74	1.61
11	AB	5498	DC	O3'-P	8.64	1.74	1.61
37	D1	38	DT	O3'-P	8.64	1.74	1.61
80	GD	12	DG	O3'-P	8.64	1.74	1.61
81	H1	19	DT	O3'-P	8.64	1.74	1.61
98	I8	8	DA	O3'-P	8.64	1.74	1.61
100	IA	12	DT	O3'-P	8.64	1.74	1.61
8	A8	14	DT	O3'-P	8.63	1.74	1.61
11	AB	65	DT	O3'-P	8.63	1.74	1.61
11	AB	374	DG	O3'-P	8.63	1.74	1.61
11	AB	441	DG	O3'-P	8.63	1.74	1.61
29	C5	8	DT	O3'-P	8.64	1.74	1.61
11	AB	554	DC	O3'-P	8.63	1.74	1.61
11	AB	581	DG	O3'-P	8.63	1.74	1.61
11	AB	999	DG	O3'-P	8.63	1.74	1.61
11	AB	1071	DT	O3'-P	8.63	1.74	1.61
11	AB	1214	DA	O3'-P	8.63	1.74	1.61
11	AB	1439	DT	O3'-P	8.64	1.74	1.61
11	AB	2262	DG	O3'-P	8.63	1.74	1.61
11	AB	2395	DT	O3'-P	8.63	1.74	1.61
11	AB	3729	DG	O3'-P	8.64	1.74	1.61
11	AB	2856	DG	O3'-P	8.63	1.74	1.61
11	AB	4074	DG	O3'-P	8.63	1.74	1.61
11	AB	5954	DG	O3'-P	8.64	1.74	1.61
11	AB	4087	DG	O3'-P	8.63	1.74	1.61
11	AB	4248	DG	O3'-P	8.63	1.74	1.61
11	AB	4902	DG	O3'-P	8.63	1.74	1.61
11	AB	4907	DA	O3'-P	8.63	1.74	1.61
11	AB	4915	DT	O3'-P	8.63	1.74	1.61
95	I5	23	DT	O3'-P	8.64	1.74	1.61
11	AB	4996	DG	O3'-P	8.63	1.74	1.61
11	AB	5414	DT	O3'-P	8.63	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6146	DG	O3'-P	8.63	1.74	1.61
11	AB	6223	DG	O3'-P	8.64	1.74	1.61
11	AB	6354	DC	O3'-P	8.63	1.74	1.61
146	N2	4	DT	O3'-P	8.64	1.74	1.61
219	UC	16	DT	O3'-P	8.64	1.74	1.61
11	AB	6695	DC	O3'-P	8.63	1.74	1.61
11	AB	6833	DG	O3'-P	8.63	1.74	1.61
11	AB	7196	DG	O3'-P	8.63	1.74	1.61
17	B4	7	DT	O3'-P	8.63	1.74	1.61
104	J2	4	DC	O3'-P	8.63	1.74	1.61
108	J7	34	DG	O3'-P	8.63	1.74	1.61
108	J7	50	DC	O3'-P	8.63	1.74	1.61
126	L2	53	DT	O3'-P	8.63	1.74	1.61
129	L6	14	DT	O3'-P	8.63	1.74	1.61
130	L7	55	DG	O3'-P	8.63	1.74	1.61
133	LA	2	DG	O3'-P	8.63	1.74	1.61
145	MD	17	DT	O3'-P	8.63	1.74	1.61
158	O5	50	DG	O3'-P	8.63	1.74	1.61
159	O6	12	DT	O3'-P	8.63	1.74	1.61
175	PD	10	DC	O3'-P	8.63	1.74	1.61
176	Q2	20	DT	O3'-P	8.63	1.74	1.61
207	T8	10	DT	O3'-P	8.63	1.74	1.61
235	WD	7	DA	O3'-P	8.63	1.74	1.61
238	X9	21	DA	O3'-P	8.63	1.74	1.61
6	A6	5	DG	O3'-P	8.63	1.74	1.61
11	AB	485	DT	O3'-P	8.63	1.74	1.61
11	AB	1482	DT	O3'-P	8.63	1.74	1.61
11	AB	4064	DC	O3'-P	8.63	1.74	1.61
9	A9	12	DT	O3'-P	8.63	1.74	1.61
11	AB	296	DT	O3'-P	8.63	1.74	1.61
11	AB	516	DC	O3'-P	8.63	1.74	1.61
11	AB	1759	DT	O3'-P	8.63	1.74	1.61
11	AB	1983	DG	O3'-P	8.63	1.74	1.61
11	AB	2287	DT	O3'-P	8.63	1.74	1.61
11	AB	2369	DT	O3'-P	8.63	1.74	1.61
11	AB	2696	DG	O3'-P	8.63	1.74	1.61
11	AB	3663	DC	O3'-P	8.63	1.74	1.61
11	AB	4099	DG	O3'-P	8.63	1.74	1.61
11	AB	4309	DT	O3'-P	8.63	1.74	1.61
11	AB	4496	DG	O3'-P	8.63	1.74	1.61
11	AB	4713	DT	O3'-P	8.63	1.74	1.61
11	AB	5432	DT	O3'-P	8.63	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6087	DG	O3'-P	8.63	1.74	1.61
231	W5	5	DG	O3'-P	8.63	1.74	1.61
11	AB	342	DA	O3'-P	8.63	1.74	1.61
11	AB	641	DG	O3'-P	8.63	1.74	1.61
11	AB	930	DG	O3'-P	8.63	1.74	1.61
11	AB	1923	DC	O3'-P	8.63	1.74	1.61
11	AB	2118	DG	O3'-P	8.63	1.74	1.61
11	AB	3060	DT	O3'-P	8.63	1.74	1.61
11	AB	3264	DT	O3'-P	8.63	1.74	1.61
11	AB	4090	DG	O3'-P	8.63	1.74	1.61
11	AB	4193	DC	O3'-P	8.63	1.74	1.61
11	AB	4936	DC	O3'-P	8.63	1.74	1.61
11	AB	5736	DT	O3'-P	8.63	1.74	1.61
11	AB	5835	DT	O3'-P	8.63	1.74	1.61
11	AB	6154	DG	O3'-P	8.63	1.74	1.61
74	G6	16	DT	O3'-P	8.63	1.74	1.61
82	H2	26	DT	O3'-P	8.63	1.74	1.61
102	ID	27	DT	O3'-P	8.63	1.74	1.61
156	O2	11	DG	O3'-P	8.63	1.74	1.61
156	O2	30	DC	O3'-P	8.63	1.74	1.61
202	SD	29	DT	O3'-P	8.63	1.74	1.61
230	W3	37	DG	O3'-P	8.63	1.74	1.61
11	AB	2594	DG	O3'-P	8.63	1.74	1.61
11	AB	3151	DG	O3'-P	8.63	1.74	1.61
222	V3	24	DG	O3'-P	8.63	1.74	1.61
11	AB	3292	DG	O3'-P	8.63	1.74	1.61
11	AB	3517	DG	O3'-P	8.63	1.74	1.61
11	AB	4407	DT	O3'-P	8.63	1.74	1.61
11	AB	5016	DG	O3'-P	8.63	1.74	1.61
11	AB	5065	DG	O3'-P	8.63	1.74	1.61
144	MC	9	DG	O3'-P	8.63	1.74	1.61
11	AB	5254	DC	O3'-P	8.63	1.74	1.61
11	AB	5747	DT	O3'-P	8.63	1.74	1.61
11	AB	5901	DC	O3'-P	8.63	1.74	1.61
11	AB	6134	DC	O3'-P	8.63	1.74	1.61
37	D1	9	DC	O3'-P	8.63	1.74	1.61
37	D1	17	DG	O3'-P	8.63	1.74	1.61
53	E7	21	DT	O3'-P	8.63	1.74	1.61
78	GA	15	DA	O3'-P	8.63	1.74	1.61
83	H3	17	DT	O3'-P	8.63	1.74	1.61
93	I2	27	DT	O3'-P	8.63	1.74	1.61
95	I5	11	DG	O3'-P	8.63	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
145	MD	31	DA	O3'-P	8.63	1.74	1.61
160	O7	4	DG	O3'-P	8.63	1.74	1.61
167	P3	13	DT	O3'-P	8.63	1.74	1.61
175	PD	20	DG	O3'-P	8.63	1.74	1.61
196	S5	6	DA	O3'-P	8.63	1.74	1.61
213	U3	24	DA	O3'-P	8.63	1.74	1.61
6	A6	9	DG	O3'-P	8.63	1.74	1.61
11	AB	2556	DG	O3'-P	8.63	1.74	1.61
11	AB	3401	DT	O3'-P	8.63	1.74	1.61
11	AB	3806	DG	O3'-P	8.63	1.74	1.61
1	A1	15	DG	O3'-P	8.63	1.74	1.61
7	A7	25	DT	O3'-P	8.63	1.74	1.61
11	AB	1519	DG	O3'-P	8.63	1.74	1.61
11	AB	2273	DG	O3'-P	8.63	1.74	1.61
11	AB	2351	DT	O3'-P	8.63	1.74	1.61
11	AB	2443	DT	O3'-P	8.63	1.74	1.61
11	AB	2883	DG	O3'-P	8.63	1.74	1.61
11	AB	3882	DT	O3'-P	8.63	1.74	1.61
11	AB	4809	DG	O3'-P	8.63	1.74	1.61
85	H6	8	DA	O3'-P	8.63	1.74	1.61
106	J5	27	DG	O3'-P	8.63	1.74	1.61
11	AB	3091	DT	O3'-P	8.63	1.74	1.61
11	AB	3584	DG	O3'-P	8.63	1.74	1.61
11	AB	3802	DA	O3'-P	8.63	1.74	1.61
11	AB	4320	DT	O3'-P	8.63	1.74	1.61
11	AB	5136	DC	O3'-P	8.63	1.74	1.61
126	L2	42	DC	O3'-P	8.63	1.74	1.61
129	L6	20	DT	O3'-P	8.63	1.74	1.61
190	R9	3	DT	O3'-P	8.63	1.74	1.61
11	AB	5782	DG	O3'-P	8.63	1.74	1.61
11	AB	6027	DA	O3'-P	8.63	1.74	1.61
11	AB	6920	DT	O3'-P	8.63	1.74	1.61
11	AB	7231	DG	O3'-P	8.63	1.74	1.61
24	BC	39	DG	O3'-P	8.63	1.74	1.61
41	D6	18	DG	O3'-P	8.63	1.74	1.61
44	D9	17	DG	O3'-P	8.63	1.74	1.61
70	G1	5	DG	O3'-P	8.63	1.74	1.61
82	H2	21	DG	O3'-P	8.63	1.74	1.61
92	I1	23	DG	O3'-P	8.63	1.74	1.61
94	I3	41	DT	O3'-P	8.63	1.74	1.61
95	I5	25	DT	O3'-P	8.63	1.74	1.61
122	KA	40	DC	O3'-P	8.63	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
140	M7	16	DG	O3'-P	8.63	1.74	1.61
170	P7	19	DT	O3'-P	8.63	1.74	1.61
136	M2	6	DG	O3'-P	8.63	1.74	1.61
160	O7	42	DG	O3'-P	8.63	1.74	1.61
167	P3	9	DG	O3'-P	8.63	1.74	1.61
184	QD	8	DT	O3'-P	8.63	1.74	1.61
184	QD	29	DT	O3'-P	8.63	1.74	1.61
192	RC	18	DT	O3'-P	8.63	1.74	1.61
202	SD	14	DG	O3'-P	8.63	1.74	1.61
209	TA	33	DG	O3'-P	8.63	1.74	1.61
210	TC	11	DA	O3'-P	8.63	1.74	1.61
225	V8	20	DG	O3'-P	8.63	1.74	1.61
230	W3	33	DT	O3'-P	8.63	1.74	1.61
11	AB	4080	DT	O3'-P	8.63	1.74	1.61
2	A2	11	DG	O3'-P	8.62	1.74	1.61
11	AB	1009	DG	O3'-P	8.62	1.74	1.61
11	AB	1010	DG	O3'-P	8.62	1.74	1.61
11	AB	1620	DT	O3'-P	8.62	1.74	1.61
11	AB	1778	DT	O3'-P	8.63	1.74	1.61
11	AB	2153	DT	O3'-P	8.62	1.74	1.61
11	AB	2240	DT	O3'-P	8.63	1.74	1.61
11	AB	2402	DT	O3'-P	8.63	1.74	1.61
11	AB	3609	DA	O3'-P	8.62	1.74	1.61
11	AB	4973	DA	O3'-P	8.62	1.74	1.61
11	AB	5764	DG	O3'-P	8.62	1.74	1.61
11	AB	5838	DT	O3'-P	8.62	1.74	1.61
11	AB	6026	DT	O3'-P	8.62	1.74	1.61
11	AB	6375	DT	O3'-P	8.62	1.74	1.61
11	AB	6451	DT	O3'-P	8.62	1.74	1.61
12	AC	6	DA	O3'-P	8.62	1.74	1.61
19	B6	4	DT	O3'-P	8.62	1.74	1.61
20	B7	9	DG	O3'-P	8.62	1.74	1.61
23	BA	26	DT	O3'-P	8.63	1.74	1.61
26	C1	7	DT	O3'-P	8.63	1.74	1.61
30	C6	4	DT	O3'-P	8.62	1.74	1.61
43	D8	19	DT	O3'-P	8.63	1.74	1.61
37	D1	36	DG	O3'-P	8.62	1.74	1.61
39	D3	17	DT	O3'-P	8.62	1.74	1.61
54	E8	5	DG	O3'-P	8.62	1.74	1.61
54	E8	9	DT	O3'-P	8.63	1.74	1.61
74	G6	35	DG	O3'-P	8.62	1.74	1.61
76	G8	7	DG	O3'-P	8.62	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
82	H2	47	DG	O3'-P	8.62	1.74	1.61
103	J1	8	DG	O3'-P	8.62	1.74	1.61
110	J9	15	DG	O3'-P	8.62	1.74	1.61
120	K8	16	DA	O3'-P	8.62	1.74	1.61
156	O2	45	DG	O3'-P	8.62	1.74	1.61
158	O5	35	DA	O3'-P	8.63	1.74	1.61
172	P9	19	DG	O3'-P	8.63	1.74	1.61
189	R8	22	DA	O3'-P	8.63	1.74	1.61
197	S7	6	DG	O3'-P	8.62	1.74	1.61
1	A1	1	DT	O3'-P	8.62	1.74	1.61
4	A4	32	DT	O3'-P	8.62	1.74	1.61
5	A5	38	DG	O3'-P	8.62	1.74	1.61
11	AB	3873	DT	O3'-P	8.62	1.74	1.61
11	AB	4421	DG	O3'-P	8.62	1.74	1.61
79	GC	4	DG	O3'-P	8.62	1.74	1.61
195	S3	5	DG	O3'-P	8.62	1.74	1.61
7	A7	39	DT	O3'-P	8.62	1.74	1.61
11	AB	11	DT	O3'-P	8.62	1.74	1.61
11	AB	204	DG	O3'-P	8.62	1.74	1.61
11	AB	291	DT	O3'-P	8.62	1.74	1.61
11	AB	341	DT	O3'-P	8.62	1.74	1.61
11	AB	464	DT	O3'-P	8.62	1.74	1.61
11	AB	706	DA	O3'-P	8.62	1.74	1.61
11	AB	1055	DT	O3'-P	8.62	1.74	1.61
11	AB	1113	DG	O3'-P	8.62	1.74	1.61
11	AB	1474	DC	O3'-P	8.62	1.74	1.61
11	AB	2060	DT	O3'-P	8.62	1.74	1.61
11	AB	2228	DA	O3'-P	8.62	1.74	1.61
11	AB	2524	DG	O3'-P	8.62	1.74	1.61
11	AB	2550	DG	O3'-P	8.62	1.74	1.61
11	AB	4466	DG	O3'-P	8.62	1.74	1.61
11	AB	5814	DG	O3'-P	8.62	1.74	1.61
22	B9	13	DG	O3'-P	8.62	1.74	1.61
74	G6	21	DG	O3'-P	8.62	1.74	1.61
93	I2	30	DG	O3'-P	8.62	1.74	1.61
11	AB	2616	DA	O3'-P	8.62	1.74	1.61
11	AB	4399	DG	O3'-P	8.62	1.74	1.61
11	AB	5356	DT	O3'-P	8.62	1.74	1.61
11	AB	5907	DG	O3'-P	8.62	1.74	1.61
11	AB	5923	DG	O3'-P	8.62	1.74	1.61
11	AB	6243	DG	O3'-P	8.62	1.74	1.61
11	AB	6770	DT	O3'-P	8.62	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
44	D9	26	DG	O3'-P	8.62	1.74	1.61
51	E5	11	DG	O3'-P	8.62	1.74	1.61
82	H2	5	DG	O3'-P	8.62	1.74	1.61
95	I5	32	DG	O3'-P	8.62	1.74	1.61
104	J2	3	DG	O3'-P	8.62	1.74	1.61
108	J7	37	DT	O3'-P	8.62	1.74	1.61
114	K1	3	DT	O3'-P	8.62	1.74	1.61
114	K1	16	DG	O3'-P	8.62	1.74	1.61
129	L6	10	DT	O3'-P	8.62	1.74	1.61
132	L9	1	DT	O3'-P	8.62	1.74	1.61
140	M7	13	DG	O3'-P	8.62	1.74	1.61
206	T7	2	DG	O3'-P	8.62	1.74	1.61
206	T7	47	DT	O3'-P	8.62	1.74	1.61
216	U8	18	DG	O3'-P	8.62	1.74	1.61
221	V2	19	DC	O3'-P	8.62	1.74	1.61
231	W5	6	DG	O3'-P	8.62	1.74	1.61
6	A6	25	DT	O3'-P	8.62	1.74	1.61
11	AB	981	DT	O3'-P	8.62	1.74	1.61
11	AB	1079	DT	O3'-P	8.62	1.74	1.61
11	AB	1089	DG	O3'-P	8.62	1.74	1.61
11	AB	1480	DG	O3'-P	8.62	1.74	1.61
11	AB	1606	DT	O3'-P	8.62	1.74	1.61
11	AB	1763	DT	O3'-P	8.62	1.74	1.61
11	AB	2561	DT	O3'-P	8.62	1.74	1.61
11	AB	3048	DT	O3'-P	8.62	1.74	1.61
11	AB	3204	DT	O3'-P	8.62	1.74	1.61
11	AB	4741	DT	O3'-P	8.62	1.74	1.61
11	AB	4935	DC	O3'-P	8.62	1.74	1.61
11	AB	5090	DA	O3'-P	8.62	1.74	1.61
11	AB	5331	DT	O3'-P	8.62	1.74	1.61
11	AB	6054	DT	O3'-P	8.62	1.74	1.61
11	AB	6512	DT	O3'-P	8.62	1.74	1.61
21	B8	13	DT	O3'-P	8.62	1.74	1.61
30	C6	36	DG	O3'-P	8.62	1.74	1.61
31	C7	24	DT	O3'-P	8.62	1.74	1.61
61	F3	24	DA	O3'-P	8.62	1.74	1.61
81	H1	9	DA	O3'-P	8.62	1.74	1.61
95	I5	33	DG	O3'-P	8.62	1.74	1.61
121	K9	22	DT	O3'-P	8.62	1.74	1.61
148	N5	17	DG	O3'-P	8.62	1.74	1.61
150	N7	13	DG	O3'-P	8.62	1.74	1.61
152	N9	21	DT	O3'-P	8.62	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
156	O2	10	DG	O3'-P	8.62	1.74	1.61
157	O3	16	DT	O3'-P	8.62	1.74	1.61
165	OD	4	DT	O3'-P	8.62	1.74	1.61
165	OD	18	DT	O3'-P	8.62	1.74	1.61
207	T8	22	DG	O3'-P	8.62	1.74	1.61
210	TC	5	DA	O3'-P	8.62	1.74	1.61
210	TC	15	DT	O3'-P	8.62	1.74	1.61
212	U2	6	DT	O3'-P	8.62	1.74	1.61
214	U5	31	DT	O3'-P	8.62	1.74	1.61
228	VC	2	DT	O3'-P	8.62	1.74	1.61
1	A1	49	DA	O3'-P	8.62	1.74	1.61
11	AB	321	DG	O3'-P	8.62	1.74	1.61
11	AB	1327	DA	O3'-P	8.62	1.74	1.61
11	AB	1452	DT	O3'-P	8.62	1.74	1.61
11	AB	1770	DG	O3'-P	8.62	1.74	1.61
11	AB	2006	DT	O3'-P	8.62	1.74	1.61
11	AB	2095	DG	O3'-P	8.62	1.74	1.61
11	AB	2328	DC	O3'-P	8.62	1.74	1.61
11	AB	3531	DT	O3'-P	8.62	1.74	1.61
11	AB	3985	DG	O3'-P	8.62	1.74	1.61
11	AB	4296	DG	O3'-P	8.62	1.74	1.61
11	AB	6624	DT	O3'-P	8.62	1.74	1.61
221	V2	8	DT	O3'-P	8.62	1.74	1.61
234	W9	2	DT	O3'-P	8.62	1.74	1.61
11	AB	4437	DG	O3'-P	8.62	1.74	1.61
11	AB	4654	DG	O3'-P	8.62	1.74	1.61
11	AB	5625	DA	O3'-P	8.62	1.74	1.61
11	AB	5718	DG	O3'-P	8.62	1.74	1.61
11	AB	5768	DT	O3'-P	8.62	1.74	1.61
11	AB	5895	DT	O3'-P	8.62	1.74	1.61
11	AB	6030	DG	O3'-P	8.62	1.74	1.61
11	AB	6090	DG	O3'-P	8.62	1.74	1.61
11	AB	6166	DA	O3'-P	8.62	1.74	1.61
11	AB	6887	DC	O3'-P	8.62	1.74	1.61
11	AB	7145	DG	O3'-P	8.62	1.74	1.61
15	B2	18	DT	O3'-P	8.62	1.74	1.61
28	C3	19	DG	O3'-P	8.62	1.74	1.61
32	C8	47	DG	O3'-P	8.62	1.74	1.61
33	C9	21	DT	O3'-P	8.62	1.74	1.61
34	CA	1	DT	O3'-P	8.62	1.74	1.61
48	E1	31	DA	O3'-P	8.62	1.74	1.61
58	ED	5	DT	O3'-P	8.62	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
211	TD	19	DT	O3'-P	8.62	1.74	1.61
80	GD	17	DT	O3'-P	8.62	1.74	1.61
90	HC	11	DA	O3'-P	8.62	1.74	1.61
98	I8	6	DT	O3'-P	8.62	1.74	1.61
101	IC	9	DT	O3'-P	8.62	1.74	1.61
107	J6	6	DT	O3'-P	8.62	1.74	1.61
119	K7	21	DG	O3'-P	8.62	1.74	1.61
181	Q9	23	DT	O3'-P	8.62	1.74	1.61
130	L7	46	DT	O3'-P	8.62	1.74	1.61
132	L9	3	DT	O3'-P	8.62	1.74	1.61
140	M7	8	DC	O3'-P	8.62	1.74	1.61
152	N9	18	DG	O3'-P	8.62	1.74	1.61
158	O5	23	DT	O3'-P	8.62	1.74	1.61
159	O6	22	DA	O3'-P	8.62	1.74	1.61
172	P9	10	DT	O3'-P	8.62	1.74	1.61
173	PA	22	DT	O3'-P	8.62	1.74	1.61
215	U7	6	DT	O3'-P	8.62	1.74	1.61
233	W8	18	DG	O3'-P	8.62	1.74	1.61
217	U9	18	DA	O3'-P	8.62	1.74	1.61
232	W7	17	DC	O3'-P	8.62	1.74	1.61
238	X9	27	DT	O3'-P	8.62	1.74	1.61
2	A2	20	DA	O3'-P	8.61	1.74	1.61
11	AB	300	DT	O3'-P	8.62	1.74	1.61
11	AB	364	DA	O3'-P	8.62	1.74	1.61
11	AB	432	DT	O3'-P	8.62	1.74	1.61
11	AB	477	DT	O3'-P	8.62	1.74	1.61
11	AB	1152	DG	O3'-P	8.62	1.74	1.61
11	AB	1363	DT	O3'-P	8.62	1.74	1.61
11	AB	1429	DG	O3'-P	8.62	1.74	1.61
11	AB	1667	DG	O3'-P	8.62	1.74	1.61
11	AB	1798	DG	O3'-P	8.62	1.74	1.61
11	AB	2222	DT	O3'-P	8.62	1.74	1.61
11	AB	3041	DT	O3'-P	8.62	1.74	1.61
11	AB	3529	DG	O3'-P	8.62	1.74	1.61
11	AB	3740	DT	O3'-P	8.62	1.74	1.61
11	AB	3871	DG	O3'-P	8.62	1.74	1.61
11	AB	4000	DT	O3'-P	8.62	1.74	1.61
11	AB	5174	DC	O3'-P	8.62	1.74	1.61
43	D8	9	DG	O3'-P	8.62	1.74	1.61
57	EC	9	DG	O3'-P	8.62	1.74	1.61
106	J5	30	DG	O3'-P	8.62	1.74	1.61
113	JD	30	DG	O3'-P	8.62	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
204	T3	36	DT	O3'-P	8.62	1.74	1.61
11	AB	1669	DG	O3'-P	8.61	1.74	1.61
11	AB	3424	DG	O3'-P	8.61	1.74	1.61
11	AB	3598	DT	O3'-P	8.62	1.74	1.61
11	AB	4363	DT	O3'-P	8.62	1.74	1.61
11	AB	5991	DC	O3'-P	8.62	1.74	1.61
19	B6	18	DT	O3'-P	8.62	1.74	1.61
46	DC	10	DT	O3'-P	8.62	1.74	1.61
172	P9	24	DT	O3'-P	8.62	1.74	1.61
11	AB	3886	DT	O3'-P	8.61	1.74	1.61
11	AB	4141	DG	O3'-P	8.61	1.74	1.61
11	AB	4188	DG	O3'-P	8.61	1.74	1.61
11	AB	4226	DG	O3'-P	8.61	1.74	1.61
11	AB	4381	DA	O3'-P	8.62	1.74	1.61
11	AB	4471	DG	O3'-P	8.62	1.74	1.61
11	AB	4732	DG	O3'-P	8.61	1.74	1.61
11	AB	6047	DT	O3'-P	8.62	1.74	1.61
11	AB	6735	DC	O3'-P	8.62	1.74	1.61
50	E3	2	DG	O3'-P	8.62	1.74	1.61
115	K2	32	DT	O3'-P	8.62	1.74	1.61
11	AB	6308	DG	O3'-P	8.61	1.74	1.61
11	AB	6843	DT	O3'-P	8.62	1.74	1.61
11	AB	6905	DG	O3'-P	8.61	1.74	1.61
27	C2	15	DA	O3'-P	8.62	1.74	1.61
101	IC	19	DG	O3'-P	8.62	1.74	1.61
105	J3	21	DT	O3'-P	8.62	1.74	1.61
214	U5	4	DA	O3'-P	8.62	1.74	1.61
39	D3	28	DG	O3'-P	8.61	1.74	1.61
48	E1	11	DG	O3'-P	8.61	1.74	1.61
60	F2	5	DG	O3'-P	8.61	1.74	1.61
69	FD	46	DG	O3'-P	8.62	1.74	1.61
75	G7	26	DG	O3'-P	8.61	1.74	1.61
82	H2	38	DG	O3'-P	8.61	1.74	1.61
88	H9	20	DG	O3'-P	8.61	1.74	1.61
117	K5	40	DG	O3'-P	8.61	1.74	1.61
130	L7	59	DA	O3'-P	8.61	1.74	1.61
139	M6	6	DT	O3'-P	8.62	1.74	1.61
156	O2	1	DT	O3'-P	8.61	1.74	1.61
171	P8	24	DT	O3'-P	8.62	1.74	1.61
176	Q2	12	DT	O3'-P	8.62	1.74	1.61
185	R2	4	DG	O3'-P	8.62	1.74	1.61
199	S9	20	DG	O3'-P	8.61	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
221	V2	26	DA	O3'-P	8.61	1.74	1.61
227	VA	19	DG	O3'-P	8.61	1.74	1.61
237	X7	19	DA	O3'-P	8.61	1.74	1.61
3	A3	18	DT	O3'-P	8.61	1.74	1.61
11	AB	1247	DC	O3'-P	8.61	1.74	1.61
11	AB	2122	DG	O3'-P	8.61	1.74	1.61
11	AB	3537	DT	O3'-P	8.61	1.74	1.61
11	AB	4061	DG	O3'-P	8.61	1.74	1.61
11	AB	4139	DG	O3'-P	8.61	1.74	1.61
11	AB	6438	DG	O3'-P	8.61	1.74	1.61
24	BC	11	DG	O3'-P	8.61	1.74	1.61
57	EC	15	DC	O3'-P	8.61	1.74	1.61
120	K8	20	DT	O3'-P	8.61	1.74	1.61
207	T8	11	DA	O3'-P	8.61	1.74	1.61
11	AB	8	DG	O3'-P	8.61	1.74	1.61
11	AB	55	DT	O3'-P	8.61	1.74	1.61
11	AB	531	DT	O3'-P	8.61	1.74	1.61
11	AB	742	DA	O3'-P	8.61	1.74	1.61
11	AB	2296	DG	O3'-P	8.61	1.74	1.61
11	AB	2783	DT	O3'-P	8.61	1.74	1.61
11	AB	3070	DT	O3'-P	8.61	1.74	1.61
11	AB	3290	DA	O3'-P	8.61	1.74	1.61
11	AB	3496	DA	O3'-P	8.61	1.74	1.61
11	AB	3853	DA	O3'-P	8.61	1.74	1.61
11	AB	5260	DG	O3'-P	8.61	1.74	1.61
11	AB	3888	DG	O3'-P	8.61	1.74	1.61
11	AB	4154	DG	O3'-P	8.61	1.74	1.61
125	L1	39	DA	O3'-P	8.61	1.74	1.61
11	AB	5277	DG	O3'-P	8.61	1.74	1.61
11	AB	5483	DG	O3'-P	8.61	1.74	1.61
11	AB	5548	DG	O3'-P	8.61	1.74	1.61
11	AB	5756	DG	O3'-P	8.61	1.74	1.61
11	AB	6705	DA	O3'-P	8.61	1.74	1.61
11	AB	6918	DG	O3'-P	8.61	1.74	1.61
11	AB	6997	DG	O3'-P	8.61	1.74	1.61
38	D2	11	DG	O3'-P	8.61	1.74	1.61
54	E8	26	DG	O3'-P	8.61	1.74	1.61
60	F2	33	DA	O3'-P	8.61	1.74	1.61
69	FD	31	DG	O3'-P	8.61	1.74	1.61
115	K2	33	DT	O3'-P	8.61	1.74	1.61
116	K3	11	DT	O3'-P	8.61	1.74	1.61
121	K9	29	DA	O3'-P	8.61	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
123	KC	22	DG	O3'-P	8.61	1.74	1.61
125	L1	12	DG	O3'-P	8.61	1.74	1.61
132	L9	12	DG	O3'-P	8.61	1.74	1.61
153	NA	15	DG	O3'-P	8.61	1.74	1.61
156	O2	7	DA	O3'-P	8.61	1.74	1.61
186	R3	11	DG	O3'-P	8.61	1.74	1.61
195	S3	2	DG	O3'-P	8.61	1.74	1.61
200	SA	11	DG	O3'-P	8.61	1.74	1.61
204	T3	24	DG	O3'-P	8.61	1.74	1.61
204	T3	6	DC	O3'-P	8.61	1.74	1.61
216	U8	19	DG	O3'-P	8.61	1.74	1.61
3	A3	6	DA	O3'-P	8.61	1.74	1.61
8	A8	20	DA	O3'-P	8.61	1.74	1.61
11	AB	148	DA	O3'-P	8.61	1.74	1.61
11	AB	461	DT	O3'-P	8.61	1.74	1.61
11	AB	780	DG	O3'-P	8.61	1.74	1.61
11	AB	1366	DC	O3'-P	8.61	1.74	1.61
11	AB	1469	DG	O3'-P	8.61	1.74	1.61
11	AB	1493	DG	O3'-P	8.61	1.74	1.61
11	AB	1535	DG	O3'-P	8.61	1.74	1.61
11	AB	1609	DT	O3'-P	8.61	1.74	1.61
11	AB	1776	DT	O3'-P	8.61	1.74	1.61
11	AB	1868	DT	O3'-P	8.61	1.74	1.61
11	AB	2072	DG	O3'-P	8.61	1.74	1.61
11	AB	2470	DT	O3'-P	8.61	1.74	1.61
11	AB	6036	DT	O3'-P	8.61	1.74	1.61
96	I6	3	DG	O3'-P	8.61	1.74	1.61
11	AB	2037	DG	O3'-P	8.61	1.74	1.61
11	AB	2106	DG	O3'-P	8.61	1.74	1.61
11	AB	2339	DG	O3'-P	8.61	1.74	1.61
11	AB	2654	DG	O3'-P	8.61	1.74	1.61
11	AB	2750	DT	O3'-P	8.61	1.74	1.61
11	AB	2894	DT	O3'-P	8.61	1.74	1.61
11	AB	3093	DT	O3'-P	8.61	1.74	1.61
11	AB	6440	DT	O3'-P	8.61	1.74	1.61
11	AB	6630	DG	O3'-P	8.61	1.74	1.61
11	AB	3184	DA	O3'-P	8.61	1.74	1.61
11	AB	3190	DA	O3'-P	8.61	1.74	1.61
11	AB	3255	DT	O3'-P	8.61	1.74	1.61
11	AB	3642	DT	O3'-P	8.61	1.74	1.61
11	AB	5617	DT	O3'-P	8.61	1.74	1.61
11	AB	7217	DG	O3'-P	8.61	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	E2	35	DT	O3'-P	8.61	1.74	1.61
63	F6	18	DT	O3'-P	8.61	1.74	1.61
143	MA	14	DG	O3'-P	8.61	1.74	1.61
152	N9	36	DT	O3'-P	8.61	1.74	1.61
11	AB	3769	DG	O3'-P	8.61	1.74	1.61
11	AB	4063	DG	O3'-P	8.61	1.74	1.61
11	AB	4493	DG	O3'-P	8.61	1.74	1.61
11	AB	5050	DG	O3'-P	8.61	1.74	1.61
11	AB	5389	DG	O3'-P	8.61	1.74	1.61
11	AB	7200	DA	O3'-P	8.61	1.74	1.61
77	G9	3	DT	O3'-P	8.61	1.74	1.61
52	E6	10	DT	O3'-P	8.61	1.74	1.61
63	F6	11	DG	O3'-P	8.61	1.74	1.61
79	GC	17	DG	O3'-P	8.61	1.74	1.61
94	I3	47	DG	O3'-P	8.61	1.74	1.61
104	J2	26	DG	O3'-P	8.61	1.74	1.61
109	J8	27	DG	O3'-P	8.61	1.74	1.61
131	L8	28	DT	O3'-P	8.61	1.74	1.61
109	J8	53	DG	O3'-P	8.61	1.74	1.61
113	JD	10	DG	O3'-P	8.61	1.74	1.61
122	KA	47	DT	O3'-P	8.61	1.74	1.61
143	MA	21	DC	O3'-P	8.61	1.74	1.61
139	M6	4	DG	O3'-P	8.61	1.74	1.61
145	MD	50	DC	O3'-P	8.61	1.74	1.61
148	N5	25	DT	O3'-P	8.61	1.74	1.61
154	NC	34	DG	O3'-P	8.61	1.74	1.61
155	ND	1	DT	O3'-P	8.61	1.74	1.61
161	O8	29	DA	O3'-P	8.61	1.74	1.61
183	QC	21	DG	O3'-P	8.61	1.74	1.61
201	SC	5	DG	O3'-P	8.61	1.74	1.61
204	T3	3	DG	O3'-P	8.61	1.74	1.61
204	T3	17	DG	O3'-P	8.61	1.74	1.61
209	TA	16	DG	O3'-P	8.61	1.74	1.61
214	U5	11	DT	O3'-P	8.61	1.74	1.61
11	AB	20	DG	O3'-P	8.61	1.74	1.61
11	AB	457	DG	O3'-P	8.61	1.74	1.61
11	AB	1042	DT	O3'-P	8.61	1.74	1.61
11	AB	1284	DG	O3'-P	8.61	1.74	1.61
11	AB	1459	DG	O3'-P	8.61	1.74	1.61
11	AB	2729	DG	O3'-P	8.61	1.74	1.61
11	AB	4295	DG	O3'-P	8.61	1.74	1.61
11	AB	4580	DT	O3'-P	8.61	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	E6	30	DG	O3'-P	8.61	1.74	1.61
10	AA	17	DG	O3'-P	8.61	1.74	1.61
11	AB	1126	DG	O3'-P	8.61	1.74	1.61
11	AB	1422	DT	O3'-P	8.61	1.74	1.61
11	AB	1611	DG	O3'-P	8.61	1.74	1.61
11	AB	1789	DG	O3'-P	8.61	1.74	1.61
11	AB	2255	DT	O3'-P	8.61	1.74	1.61
11	AB	2538	DG	O3'-P	8.61	1.74	1.61
11	AB	2934	DT	O3'-P	8.61	1.74	1.61
11	AB	3022	DG	O3'-P	8.61	1.74	1.61
11	AB	3369	DG	O3'-P	8.61	1.74	1.61
11	AB	3461	DG	O3'-P	8.61	1.74	1.61
11	AB	3917	DG	O3'-P	8.61	1.74	1.61
11	AB	4699	DT	O3'-P	8.61	1.74	1.61
11	AB	4786	DT	O3'-P	8.61	1.74	1.61
11	AB	5113	DG	O3'-P	8.61	1.74	1.61
158	O5	5	DG	O3'-P	8.61	1.74	1.61
11	AB	4048	DG	O3'-P	8.61	1.74	1.61
11	AB	4428	DG	O3'-P	8.61	1.74	1.61
11	AB	4550	DG	O3'-P	8.61	1.74	1.61
11	AB	5058	DG	O3'-P	8.61	1.74	1.61
99	I9	25	DG	O3'-P	8.61	1.74	1.61
11	AB	5749	DG	O3'-P	8.61	1.74	1.61
11	AB	5824	DG	O3'-P	8.61	1.74	1.61
11	AB	5832	DT	O3'-P	8.61	1.74	1.61
11	AB	6743	DA	O3'-P	8.61	1.74	1.61
11	AB	6907	DG	O3'-P	8.61	1.74	1.61
11	AB	7050	DG	O3'-P	8.61	1.74	1.61
22	B9	39	DT	O3'-P	8.61	1.74	1.61
28	C3	18	DG	O3'-P	8.61	1.74	1.61
29	C5	30	DT	O3'-P	8.61	1.74	1.61
34	CA	3	DT	O3'-P	8.61	1.74	1.61
37	D1	8	DC	O3'-P	8.61	1.74	1.61
51	E5	31	DT	O3'-P	8.61	1.74	1.61
94	I3	32	DG	O3'-P	8.61	1.74	1.61
119	K7	27	DG	O3'-P	8.61	1.74	1.61
147	N3	4	DG	O3'-P	8.61	1.74	1.61
47	DD	38	DG	O3'-P	8.61	1.74	1.61
49	E2	6	DG	O3'-P	8.61	1.74	1.61
60	F2	22	DG	O3'-P	8.61	1.74	1.61
67	FA	18	DG	O3'-P	8.61	1.74	1.61
69	FD	44	DG	O3'-P	8.61	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	H6	34	DA	O3'-P	8.61	1.74	1.61
115	K2	20	DG	O3'-P	8.61	1.74	1.61
157	O3	18	DG	O3'-P	8.61	1.74	1.61
75	G7	7	DT	O3'-P	8.61	1.74	1.61
83	H3	37	DG	O3'-P	8.61	1.74	1.61
97	I7	15	DT	O3'-P	8.61	1.74	1.61
109	J8	26	DG	O3'-P	8.61	1.74	1.61
116	K3	19	DA	O3'-P	8.61	1.74	1.61
120	K8	6	DG	O3'-P	8.61	1.74	1.61
122	KA	13	DG	O3'-P	8.61	1.74	1.61
125	L1	25	DG	O3'-P	8.61	1.74	1.61
153	NA	14	DG	O3'-P	8.61	1.74	1.61
154	NC	26	DG	O3'-P	8.61	1.74	1.61
169	P6	18	DG	O3'-P	8.61	1.74	1.61
211	TD	2	DT	O3'-P	8.61	1.74	1.61
222	V3	10	DG	O3'-P	8.61	1.74	1.61
238	X9	58	DA	O3'-P	8.61	1.74	1.61
6	A6	28	DG	O3'-P	8.60	1.74	1.61
11	AB	497	DG	O3'-P	8.60	1.74	1.61
11	AB	593	DT	O3'-P	8.60	1.74	1.61
11	AB	785	DT	O3'-P	8.60	1.74	1.61
11	AB	842	DT	O3'-P	8.60	1.74	1.61
11	AB	1086	DT	O3'-P	8.60	1.74	1.61
11	AB	1592	DG	O3'-P	8.60	1.74	1.61
11	AB	2081	DG	O3'-P	8.60	1.74	1.61
11	AB	3072	DT	O3'-P	8.60	1.74	1.61
11	AB	4025	DG	O3'-P	8.60	1.74	1.61
11	AB	5028	DG	O3'-P	8.60	1.74	1.61
11	AB	5126	DT	O3'-P	8.60	1.74	1.61
11	AB	5568	DT	O3'-P	8.60	1.74	1.61
11	AB	7160	DG	O3'-P	8.60	1.74	1.61
13	AD	43	DG	O3'-P	8.60	1.74	1.61
30	C6	17	DG	O3'-P	8.60	1.74	1.61
11	AB	909	DG	O3'-P	8.60	1.74	1.61
11	AB	992	DG	O3'-P	8.60	1.74	1.61
11	AB	1318	DA	O3'-P	8.60	1.74	1.61
11	AB	3579	DT	O3'-P	8.60	1.74	1.61
11	AB	4055	DT	O3'-P	8.60	1.74	1.61
11	AB	4175	DG	O3'-P	8.60	1.74	1.61
11	AB	4815	DT	O3'-P	8.60	1.74	1.61
11	AB	4858	DG	O3'-P	8.60	1.74	1.61
11	AB	4967	DG	O3'-P	8.60	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5083	DG	O3'-P	8.60	1.74	1.61
11	AB	5238	DG	O3'-P	8.60	1.74	1.61
11	AB	6102	DA	O3'-P	8.60	1.74	1.61
11	AB	6123	DG	O3'-P	8.60	1.74	1.61
11	AB	6298	DG	O3'-P	8.60	1.74	1.61
11	AB	6524	DT	O3'-P	8.60	1.74	1.61
11	AB	6762	DT	O3'-P	8.60	1.74	1.61
11	AB	6783	DT	O3'-P	8.60	1.74	1.61
31	C7	4	DT	O3'-P	8.60	1.74	1.61
38	D2	14	DG	O3'-P	8.60	1.74	1.61
44	D9	23	DG	O3'-P	8.60	1.74	1.61
68	FC	5	DG	O3'-P	8.60	1.74	1.61
69	FD	37	DG	O3'-P	8.60	1.74	1.61
79	GC	12	DG	O3'-P	8.60	1.74	1.61
84	H5	1	DA	O3'-P	8.60	1.74	1.61
99	I9	21	DG	O3'-P	8.60	1.74	1.61
126	L2	11	DT	O3'-P	8.60	1.74	1.61
141	M8	12	DT	O3'-P	8.60	1.74	1.61
160	O7	9	DT	O3'-P	8.60	1.74	1.61
162	O9	6	DA	O3'-P	8.60	1.74	1.61
163	OA	13	DT	O3'-P	8.60	1.74	1.61
164	OC	27	DT	O3'-P	8.60	1.74	1.61
165	OD	53	DT	O3'-P	8.60	1.74	1.61
166	P2	26	DT	O3'-P	8.60	1.74	1.61
169	P6	5	DG	O3'-P	8.60	1.74	1.61
173	PA	32	DT	O3'-P	8.60	1.74	1.61
236	X5	5	DG	O3'-P	8.60	1.74	1.61
11	AB	1745	DT	O3'-P	8.60	1.74	1.61
11	AB	2917	DG	O3'-P	8.60	1.74	1.61
11	AB	3811	DG	O3'-P	8.60	1.74	1.61
11	AB	4133	DG	O3'-P	8.60	1.74	1.61
11	AB	4566	DA	O3'-P	8.60	1.74	1.61
11	AB	4846	DG	O3'-P	8.60	1.74	1.61
11	AB	6447	DG	O3'-P	8.60	1.74	1.61
11	AB	6456	DT	O3'-P	8.60	1.74	1.61
11	AB	6622	DT	O3'-P	8.60	1.74	1.61
11	AB	6933	DG	O3'-P	8.60	1.74	1.61
14	B1	1	DG	O3'-P	8.60	1.74	1.61
14	B1	20	DG	O3'-P	8.60	1.74	1.61
28	C3	14	DG	O3'-P	8.60	1.74	1.61
85	H6	23	DC	O3'-P	8.60	1.74	1.61
143	MA	11	DG	O3'-P	8.60	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
158	O5	6	DG	O3'-P	8.60	1.74	1.61
217	U9	5	DT	O3'-P	8.60	1.74	1.61
35	CC	30	DG	O3'-P	8.60	1.74	1.61
50	E3	4	DG	O3'-P	8.60	1.74	1.61
53	E7	22	DT	O3'-P	8.60	1.74	1.61
54	E8	28	DG	O3'-P	8.60	1.74	1.61
84	H5	20	DG	O3'-P	8.60	1.74	1.61
89	HA	11	DG	O3'-P	8.60	1.74	1.61
98	I8	33	DG	O3'-P	8.60	1.74	1.61
145	MD	38	DG	O3'-P	8.60	1.74	1.61
150	N7	17	DA	O3'-P	8.60	1.74	1.61
161	O8	47	DT	O3'-P	8.60	1.74	1.61
168	P5	3	DG	O3'-P	8.60	1.74	1.61
185	R2	12	DC	O3'-P	8.60	1.74	1.61
191	RA	11	DC	O3'-P	8.60	1.74	1.61
211	TD	10	DG	O3'-P	8.60	1.74	1.61
213	U3	13	DG	O3'-P	8.60	1.74	1.61
230	W3	34	DA	O3'-P	8.60	1.74	1.61
7	A7	14	DG	O3'-P	8.60	1.74	1.61
11	AB	126	DG	O3'-P	8.60	1.74	1.61
11	AB	1359	DT	O3'-P	8.60	1.74	1.61
11	AB	1819	DG	O3'-P	8.60	1.74	1.61
11	AB	2762	DT	O3'-P	8.60	1.74	1.61
11	AB	3248	DT	O3'-P	8.60	1.74	1.61
11	AB	3456	DG	O3'-P	8.60	1.74	1.61
61	F3	15	DG	O3'-P	8.60	1.74	1.61
11	AB	2476	DT	O3'-P	8.60	1.74	1.61
11	AB	2478	DG	O3'-P	8.60	1.74	1.61
11	AB	2639	DT	O3'-P	8.60	1.74	1.61
11	AB	3269	DC	O3'-P	8.60	1.74	1.61
11	AB	3472	DG	O3'-P	8.60	1.74	1.61
11	AB	3795	DG	O3'-P	8.60	1.74	1.61
11	AB	4096	DG	O3'-P	8.60	1.74	1.61
11	AB	4728	DT	O3'-P	8.60	1.74	1.61
11	AB	5375	DT	O3'-P	8.60	1.74	1.61
11	AB	5584	DA	O3'-P	8.60	1.74	1.61
11	AB	5700	DT	O3'-P	8.60	1.74	1.61
11	AB	5721	DT	O3'-P	8.60	1.74	1.61
11	AB	6831	DG	O3'-P	8.60	1.74	1.61
11	AB	6947	DT	O3'-P	8.60	1.74	1.61
11	AB	7072	DG	O3'-P	8.60	1.74	1.61
116	K3	7	DA	O3'-P	8.60	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
203	T2	10	DG	O3'-P	8.60	1.74	1.61
11	AB	5651	DT	O3'-P	8.60	1.74	1.61
11	AB	5745	DT	O3'-P	8.60	1.74	1.61
11	AB	5925	DT	O3'-P	8.60	1.74	1.61
11	AB	6108	DT	O3'-P	8.60	1.74	1.61
11	AB	7195	DG	O3'-P	8.60	1.74	1.61
11	AB	6818	DT	O3'-P	8.60	1.74	1.61
15	B2	20	DG	O3'-P	8.60	1.74	1.61
43	D8	25	DG	O3'-P	8.60	1.74	1.61
63	F6	20	DA	O3'-P	8.60	1.74	1.61
70	G1	17	DT	O3'-P	8.60	1.74	1.61
73	G5	17	DT	O3'-P	8.60	1.74	1.61
106	J5	6	DG	O3'-P	8.60	1.74	1.61
107	J6	24	DT	O3'-P	8.60	1.74	1.61
150	N7	22	DG	O3'-P	8.60	1.74	1.61
171	P8	18	DT	O3'-P	8.60	1.74	1.61
108	J7	25	DT	O3'-P	8.60	1.74	1.61
109	J8	42	DG	O3'-P	8.60	1.74	1.61
109	J8	51	DT	O3'-P	8.60	1.74	1.61
130	L7	4	DT	O3'-P	8.60	1.74	1.61
134	LC	20	DT	O3'-P	8.60	1.74	1.61
151	N8	8	DT	O3'-P	8.60	1.74	1.61
168	P5	9	DG	O3'-P	8.60	1.74	1.61
185	R2	15	DG	O3'-P	8.60	1.74	1.61
9	A9	16	DT	O3'-P	8.60	1.74	1.61
11	AB	42	DG	O3'-P	8.60	1.74	1.61
11	AB	4665	DG	O3'-P	8.60	1.74	1.61
11	AB	5242	DG	O3'-P	8.60	1.74	1.61
11	AB	86	DG	O3'-P	8.60	1.74	1.61
11	AB	240	DA	O3'-P	8.60	1.74	1.61
11	AB	324	DA	O3'-P	8.60	1.74	1.61
11	AB	993	DG	O3'-P	8.60	1.74	1.61
11	AB	334	DT	O3'-P	8.60	1.74	1.61
11	AB	415	DG	O3'-P	8.60	1.74	1.61
11	AB	1267	DG	O3'-P	8.60	1.74	1.61
11	AB	2018	DG	O3'-P	8.60	1.74	1.61
11	AB	509	DT	O3'-P	8.60	1.74	1.61
11	AB	858	DG	O3'-P	8.60	1.74	1.61
11	AB	1703	DG	O3'-P	8.60	1.74	1.61
11	AB	2052	DA	O3'-P	8.60	1.74	1.61
11	AB	2126	DT	O3'-P	8.60	1.74	1.61
11	AB	2227	DT	O3'-P	8.60	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2733	DG	O3'-P	8.60	1.74	1.61
11	AB	4470	DG	O3'-P	8.60	1.74	1.61
11	AB	2577	DA	O3'-P	8.60	1.74	1.61
11	AB	2630	DT	O3'-P	8.60	1.74	1.61
11	AB	2722	DT	O3'-P	8.60	1.74	1.61
11	AB	5512	DT	O3'-P	8.60	1.74	1.61
51	E5	23	DG	O3'-P	8.60	1.74	1.61
119	K7	30	DT	O3'-P	8.60	1.74	1.61
11	AB	2774	DT	O3'-P	8.60	1.74	1.61
11	AB	3295	DT	O3'-P	8.60	1.74	1.61
11	AB	3676	DG	O3'-P	8.60	1.74	1.61
11	AB	3742	DG	O3'-P	8.60	1.74	1.61
11	AB	4216	DG	O3'-P	8.60	1.74	1.61
164	OC	18	DT	O3'-P	8.60	1.74	1.61
11	AB	4472	DG	O3'-P	8.60	1.74	1.61
11	AB	4489	DG	O3'-P	8.60	1.74	1.61
11	AB	4510	DG	O3'-P	8.60	1.74	1.61
11	AB	4629	DG	O3'-P	8.60	1.74	1.61
160	O7	22	DT	O3'-P	8.60	1.74	1.61
11	AB	4711	DG	O3'-P	8.60	1.74	1.61
11	AB	5672	DT	O3'-P	8.60	1.74	1.61
11	AB	5753	DT	O3'-P	8.60	1.74	1.61
11	AB	6181	DT	O3'-P	8.60	1.74	1.61
11	AB	6211	DG	O3'-P	8.60	1.74	1.61
11	AB	6369	DT	O3'-P	8.60	1.74	1.61
11	AB	6924	DT	O3'-P	8.60	1.74	1.61
11	AB	6942	DG	O3'-P	8.60	1.74	1.61
11	AB	6963	DG	O3'-P	8.60	1.74	1.61
14	B1	33	DG	O3'-P	8.60	1.74	1.61
18	B5	8	DG	O3'-P	8.60	1.74	1.61
24	BC	18	DT	O3'-P	8.60	1.74	1.61
43	D8	16	DA	O3'-P	8.60	1.74	1.61
55	E9	18	DG	O3'-P	8.60	1.74	1.61
56	EA	20	DG	O3'-P	8.60	1.74	1.61
58	ED	21	DG	O3'-P	8.60	1.74	1.61
74	G6	29	DG	O3'-P	8.60	1.74	1.61
82	H2	43	DG	O3'-P	8.60	1.74	1.61
82	H2	54	DG	O3'-P	8.60	1.74	1.61
102	ID	30	DG	O3'-P	8.60	1.74	1.61
112	JC	12	DG	O3'-P	8.60	1.74	1.61
145	MD	24	DG	O3'-P	8.60	1.74	1.61
154	NC	13	DT	O3'-P	8.60	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
167	P3	27	DT	O3'-P	8.60	1.74	1.61
171	P8	19	DT	O3'-P	8.60	1.74	1.61
210	TC	18	DT	O3'-P	8.60	1.74	1.61
11	AB	501	DT	O3'-P	8.59	1.74	1.61
11	AB	2146	DA	O3'-P	8.59	1.74	1.61
11	AB	2399	DT	O3'-P	8.59	1.74	1.61
11	AB	3139	DT	O3'-P	8.59	1.74	1.61
11	AB	3428	DT	O3'-P	8.59	1.74	1.61
11	AB	4525	DG	O3'-P	8.59	1.74	1.61
11	AB	5219	DA	O3'-P	8.59	1.74	1.61
11	AB	6347	DA	O3'-P	8.59	1.74	1.61
67	FA	28	DA	O3'-P	8.59	1.74	1.61
11	AB	1520	DG	O3'-P	8.59	1.74	1.61
11	AB	2877	DG	O3'-P	8.59	1.74	1.61
11	AB	3283	DT	O3'-P	8.59	1.74	1.61
11	AB	3418	DG	O3'-P	8.59	1.74	1.61
11	AB	3673	DA	O3'-P	8.59	1.74	1.61
11	AB	3922	DA	O3'-P	8.59	1.74	1.61
11	AB	5142	DA	O3'-P	8.59	1.74	1.61
11	AB	5266	DT	O3'-P	8.59	1.74	1.61
11	AB	5588	DT	O3'-P	8.59	1.74	1.61
11	AB	5772	DG	O3'-P	8.59	1.74	1.61
11	AB	6050	DG	O3'-P	8.59	1.74	1.61
11	AB	6693	DG	O3'-P	8.59	1.74	1.61
11	AB	6755	DG	O3'-P	8.59	1.74	1.61
11	AB	6825	DG	O3'-P	8.59	1.74	1.61
11	AB	7012	DG	O3'-P	8.59	1.74	1.61
11	AB	7154	DG	O3'-P	8.59	1.74	1.61
17	B4	11	DG	O3'-P	8.59	1.74	1.61
20	B7	16	DT	O3'-P	8.59	1.74	1.61
99	I9	2	DA	O3'-P	8.59	1.74	1.61
28	C3	13	DG	O3'-P	8.59	1.74	1.61
65	F8	3	DG	O3'-P	8.59	1.74	1.61
69	FD	16	DC	O3'-P	8.59	1.74	1.61
104	J2	36	DA	O3'-P	8.59	1.74	1.61
106	J5	29	DG	O3'-P	8.59	1.74	1.61
109	J8	34	DG	O3'-P	8.59	1.74	1.61
111	JA	14	DA	O3'-P	8.59	1.74	1.61
117	K5	27	DG	O3'-P	8.59	1.74	1.61
170	P7	15	DT	O3'-P	8.59	1.74	1.61
124	KD	13	DA	O3'-P	8.59	1.74	1.61
125	L1	35	DA	O3'-P	8.59	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
130	L7	18	DT	O3'-P	8.59	1.74	1.61
158	O5	49	DG	O3'-P	8.59	1.74	1.61
171	P8	16	DA	O3'-P	8.59	1.74	1.61
183	QC	17	DA	O3'-P	8.59	1.74	1.61
230	W3	41	DG	O3'-P	8.59	1.74	1.61
178	Q5	25	DT	O3'-P	8.59	1.74	1.61
181	Q9	14	DT	O3'-P	8.59	1.74	1.61
194	S2	14	DG	O3'-P	8.59	1.74	1.61
198	S8	13	DT	O3'-P	8.59	1.74	1.61
209	TA	27	DG	O3'-P	8.59	1.74	1.61
217	U9	11	DG	O3'-P	8.59	1.74	1.61
219	UC	23	DT	O3'-P	8.59	1.74	1.61
223	V5	21	DG	O3'-P	8.59	1.74	1.61
11	AB	345	DG	O3'-P	8.59	1.74	1.61
11	AB	394	DT	O3'-P	8.59	1.74	1.61
11	AB	1832	DT	O3'-P	8.59	1.74	1.61
11	AB	2723	DA	O3'-P	8.59	1.74	1.61
11	AB	3227	DT	O3'-P	8.59	1.74	1.61
11	AB	3669	DT	O3'-P	8.59	1.74	1.61
11	AB	3688	DG	O3'-P	8.59	1.74	1.61
11	AB	5112	DG	O3'-P	8.59	1.74	1.61
11	AB	5407	DA	O3'-P	8.59	1.74	1.61
35	CC	25	DT	O3'-P	8.59	1.74	1.61
97	I7	25	DG	O3'-P	8.59	1.74	1.61
141	M8	25	DT	O3'-P	8.59	1.74	1.61
164	OC	19	DT	O3'-P	8.59	1.74	1.61
10	AA	7	DT	O3'-P	8.59	1.74	1.61
11	AB	67	DT	O3'-P	8.59	1.74	1.61
11	AB	234	DT	O3'-P	8.59	1.74	1.61
109	J8	23	DT	O3'-P	8.59	1.74	1.61
228	VC	29	DG	O3'-P	8.59	1.74	1.61
11	AB	569	DT	O3'-P	8.59	1.74	1.61
11	AB	931	DG	O3'-P	8.59	1.74	1.61
11	AB	1541	DG	O3'-P	8.59	1.74	1.61
11	AB	1879	DT	O3'-P	8.59	1.74	1.61
11	AB	2315	DT	O3'-P	8.59	1.74	1.61
11	AB	2741	DA	O3'-P	8.59	1.74	1.61
11	AB	2996	DG	O3'-P	8.59	1.74	1.61
11	AB	3165	DT	O3'-P	8.59	1.74	1.61
11	AB	3879	DG	O3'-P	8.59	1.74	1.61
11	AB	4608	DG	O3'-P	8.59	1.74	1.61
11	AB	5482	DG	O3'-P	8.59	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5524	DA	O3'-P	8.59	1.74	1.61
11	AB	5938	DA	O3'-P	8.59	1.74	1.61
11	AB	6024	DG	O3'-P	8.59	1.74	1.61
14	B1	21	DG	O3'-P	8.59	1.74	1.61
132	L9	8	DT	O3'-P	8.59	1.74	1.61
11	AB	6899	DC	O3'-P	8.59	1.74	1.61
32	C8	2	DT	O3'-P	8.59	1.74	1.61
35	CC	14	DT	O3'-P	8.59	1.74	1.61
37	D1	41	DA	O3'-P	8.59	1.74	1.61
42	D7	7	DG	O3'-P	8.59	1.74	1.61
42	D7	8	DG	O3'-P	8.59	1.74	1.61
43	D8	1	DT	O3'-P	8.59	1.74	1.61
58	ED	7	DG	O3'-P	8.59	1.74	1.61
196	S5	12	DG	O3'-P	8.59	1.74	1.61
209	TA	38	DA	O3'-P	8.59	1.74	1.61
60	F2	3	DA	O3'-P	8.59	1.74	1.61
64	F7	25	DT	O3'-P	8.59	1.74	1.61
67	FA	16	DT	O3'-P	8.59	1.74	1.61
71	G2	14	DT	O3'-P	8.59	1.74	1.61
77	G9	10	DG	O3'-P	8.59	1.74	1.61
91	HD	17	DG	O3'-P	8.59	1.74	1.61
92	I1	17	DG	O3'-P	8.59	1.74	1.61
98	I8	32	DG	O3'-P	8.59	1.74	1.61
109	J8	36	DT	O3'-P	8.59	1.74	1.61
114	K1	4	DA	O3'-P	8.59	1.74	1.61
104	J2	41	DT	O3'-P	8.59	1.74	1.61
133	LA	16	DA	O3'-P	8.59	1.74	1.61
139	M6	21	DG	O3'-P	8.59	1.74	1.61
147	N3	9	DA	O3'-P	8.59	1.74	1.61
154	NC	30	DG	O3'-P	8.59	1.74	1.61
181	Q9	16	DG	O3'-P	8.59	1.74	1.61
186	R3	6	DG	O3'-P	8.59	1.74	1.61
192	RC	15	DT	O3'-P	8.59	1.74	1.61
189	R8	28	DG	O3'-P	8.59	1.74	1.61
202	SD	18	DA	O3'-P	8.59	1.74	1.61
209	TA	23	DT	O3'-P	8.59	1.74	1.61
220	UD	19	DG	O3'-P	8.59	1.74	1.61
228	VC	12	DG	O3'-P	8.59	1.74	1.61
11	AB	745	DG	O3'-P	8.59	1.74	1.61
55	E9	22	DG	O3'-P	8.59	1.74	1.61
84	H5	21	DC	O3'-P	8.59	1.74	1.61
4	A4	11	DG	O3'-P	8.59	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	AA	20	DG	O3'-P	8.59	1.74	1.61
11	AB	639	DG	O3'-P	8.59	1.74	1.61
11	AB	1694	DT	O3'-P	8.59	1.74	1.61
11	AB	3036	DT	O3'-P	8.59	1.74	1.61
11	AB	5360	DT	O3'-P	8.59	1.74	1.61
11	AB	5653	DT	O3'-P	8.59	1.74	1.61
11	AB	195	DT	O3'-P	8.59	1.74	1.61
11	AB	294	DG	O3'-P	8.59	1.74	1.61
11	AB	536	DG	O3'-P	8.59	1.74	1.61
11	AB	1026	DG	O3'-P	8.59	1.74	1.61
11	AB	1561	DT	O3'-P	8.59	1.74	1.61
11	AB	2189	DA	O3'-P	8.59	1.74	1.61
11	AB	2567	DT	O3'-P	8.59	1.74	1.61
11	AB	3258	DT	O3'-P	8.59	1.74	1.61
11	AB	3826	DT	O3'-P	8.59	1.74	1.61
11	AB	3952	DG	O3'-P	8.59	1.74	1.61
11	AB	4312	DA	O3'-P	8.59	1.74	1.61
11	AB	4420	DG	O3'-P	8.59	1.74	1.61
11	AB	4443	DA	O3'-P	8.59	1.74	1.61
11	AB	4656	DG	O3'-P	8.59	1.74	1.61
11	AB	4657	DG	O3'-P	8.59	1.74	1.61
11	AB	4701	DG	O3'-P	8.59	1.74	1.61
11	AB	5053	DG	O3'-P	8.59	1.74	1.61
11	AB	5674	DT	O3'-P	8.59	1.74	1.61
11	AB	6198	DT	O3'-P	8.59	1.74	1.61
11	AB	6579	DT	O3'-P	8.59	1.74	1.61
11	AB	6999	DG	O3'-P	8.59	1.74	1.61
18	B5	36	DT	O3'-P	8.59	1.74	1.61
48	E1	8	DC	O3'-P	8.59	1.74	1.61
62	F5	18	DG	O3'-P	8.59	1.74	1.61
65	F8	11	DG	O3'-P	8.59	1.74	1.61
120	K8	13	DA	O3'-P	8.59	1.74	1.61
186	R3	17	DT	O3'-P	8.59	1.74	1.61
11	AB	575	DT	O3'-P	8.59	1.74	1.61
11	AB	2288	DA	O3'-P	8.59	1.74	1.61
11	AB	2668	DG	O3'-P	8.59	1.74	1.61
11	AB	3106	DC	O3'-P	8.59	1.74	1.61
11	AB	3214	DG	O3'-P	8.59	1.74	1.61
11	AB	3316	DG	O3'-P	8.59	1.74	1.61
11	AB	3491	DG	O3'-P	8.59	1.74	1.61
11	AB	3566	DG	O3'-P	8.59	1.74	1.61
11	AB	3775	DG	O3'-P	8.59	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3838	DG	O3'-P	8.59	1.74	1.61
80	GD	20	DG	O3'-P	8.59	1.74	1.61
111	JA	16	DT	O3'-P	8.59	1.74	1.61
149	N6	29	DT	O3'-P	8.59	1.74	1.61
165	OD	55	DG	O3'-P	8.59	1.74	1.61
11	AB	3986	DG	O3'-P	8.59	1.74	1.61
11	AB	4649	DG	O3'-P	8.59	1.74	1.61
11	AB	5167	DG	O3'-P	8.59	1.74	1.61
11	AB	5439	DA	O3'-P	8.59	1.74	1.61
11	AB	6752	DG	O3'-P	8.59	1.74	1.61
149	N6	18	DA	O3'-P	8.59	1.74	1.61
156	O2	22	DT	O3'-P	8.59	1.74	1.61
205	T5	7	DT	O3'-P	8.59	1.74	1.61
11	AB	6917	DG	O3'-P	8.59	1.74	1.61
11	AB	7069	DG	O3'-P	8.59	1.74	1.61
32	C8	8	DG	O3'-P	8.59	1.74	1.61
32	C8	39	DG	O3'-P	8.59	1.74	1.61
36	CD	5	DG	O3'-P	8.59	1.74	1.61
42	D7	12	DA	O3'-P	8.59	1.74	1.61
48	E1	12	DG	O3'-P	8.59	1.74	1.61
50	E3	1	DG	O3'-P	8.59	1.74	1.61
85	H6	27	DA	O3'-P	8.59	1.74	1.61
104	J2	31	DT	O3'-P	8.59	1.74	1.61
99	I9	17	DG	O3'-P	8.59	1.74	1.61
115	K2	17	DG	O3'-P	8.59	1.74	1.61
139	M6	19	DG	O3'-P	8.59	1.74	1.61
148	N5	15	DA	O3'-P	8.59	1.74	1.61
159	O6	5	DG	O3'-P	8.59	1.74	1.61
160	O7	39	DA	O3'-P	8.59	1.74	1.61
167	P3	29	DG	O3'-P	8.59	1.74	1.61
179	Q7	10	DT	O3'-P	8.59	1.74	1.61
198	S8	36	DA	O3'-P	8.59	1.74	1.61
201	SC	11	DG	O3'-P	8.59	1.74	1.61
227	VA	7	DG	O3'-P	8.59	1.74	1.61
200	SA	5	DG	O3'-P	8.59	1.74	1.61
202	SD	11	DA	O3'-P	8.59	1.74	1.61
206	T7	29	DA	O3'-P	8.59	1.74	1.61
212	U2	10	DG	O3'-P	8.59	1.74	1.61
229	VD	14	DA	O3'-P	8.59	1.74	1.61
231	W5	33	DA	O3'-P	8.59	1.74	1.61
238	X9	4	DG	O3'-P	8.59	1.74	1.61
238	X9	43	DC	O3'-P	8.59	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	114	DG	O3'-P	8.58	1.74	1.61
11	AB	190	DT	O3'-P	8.58	1.74	1.61
11	AB	327	DG	O3'-P	8.58	1.74	1.61
11	AB	3087	DG	O3'-P	8.58	1.74	1.61
11	AB	499	DG	O3'-P	8.58	1.74	1.61
11	AB	715	DT	O3'-P	8.58	1.74	1.61
11	AB	901	DG	O3'-P	8.58	1.74	1.61
11	AB	1250	DT	O3'-P	8.58	1.74	1.61
11	AB	1595	DT	O3'-P	8.58	1.74	1.61
11	AB	3449	DG	O3'-P	8.58	1.74	1.61
11	AB	4951	DG	O3'-P	8.58	1.74	1.61
11	AB	5070	DG	O3'-P	8.58	1.74	1.61
11	AB	5641	DG	O3'-P	8.58	1.74	1.61
46	DC	20	DG	O3'-P	8.58	1.74	1.61
47	DD	36	DT	O3'-P	8.58	1.74	1.61
153	NA	13	DG	O3'-P	8.58	1.74	1.61
11	AB	2215	DA	O3'-P	8.58	1.74	1.61
11	AB	3653	DG	O3'-P	8.58	1.74	1.61
11	AB	3834	DT	O3'-P	8.58	1.74	1.61
11	AB	5350	DA	O3'-P	8.58	1.74	1.61
11	AB	5734	DG	O3'-P	8.58	1.74	1.61
11	AB	5886	DT	O3'-P	8.58	1.74	1.61
11	AB	6057	DG	O3'-P	8.58	1.74	1.61
11	AB	6185	DT	O3'-P	8.58	1.74	1.61
11	AB	6875	DT	O3'-P	8.58	1.74	1.61
11	AB	6837	DG	O3'-P	8.58	1.74	1.61
11	AB	6940	DG	O3'-P	8.58	1.74	1.61
11	AB	7134	DT	O3'-P	8.58	1.74	1.61
16	B3	20	DT	O3'-P	8.58	1.74	1.61
48	E1	27	DT	O3'-P	8.58	1.74	1.61
104	J2	38	DT	O3'-P	8.58	1.74	1.61
52	E6	19	DA	O3'-P	8.58	1.74	1.61
53	E7	16	DG	O3'-P	8.58	1.74	1.61
55	E9	16	DT	O3'-P	8.58	1.74	1.61
64	F7	14	DG	O3'-P	8.58	1.74	1.61
73	G5	19	DA	O3'-P	8.58	1.74	1.61
109	J8	11	DG	O3'-P	8.58	1.74	1.61
75	G7	2	DA	O3'-P	8.58	1.74	1.61
95	I5	26	DT	O3'-P	8.58	1.74	1.61
102	ID	11	DA	O3'-P	8.58	1.74	1.61
107	J6	33	DA	O3'-P	8.58	1.74	1.61
108	J7	41	DA	O3'-P	8.58	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
122	KA	50	DT	O3'-P	8.58	1.74	1.61
128	L5	17	DA	O3'-P	8.58	1.74	1.61
143	MA	23	DA	O3'-P	8.58	1.74	1.61
189	R8	9	DT	O3'-P	8.58	1.74	1.61
211	TD	7	DT	O3'-P	8.58	1.74	1.61
223	V5	9	DG	O3'-P	8.58	1.74	1.61
224	V7	19	DT	O3'-P	8.58	1.74	1.61
228	VC	4	DA	O3'-P	8.58	1.74	1.61
231	W5	23	DG	O3'-P	8.58	1.74	1.61
11	AB	77	DA	O3'-P	8.58	1.74	1.61
11	AB	210	DA	O3'-P	8.58	1.74	1.61
11	AB	553	DA	O3'-P	8.58	1.74	1.61
11	AB	5460	DT	O3'-P	8.58	1.74	1.61
11	AB	5826	DT	O3'-P	8.58	1.74	1.61
11	AB	377	DT	O3'-P	8.58	1.74	1.61
11	AB	585	DT	O3'-P	8.58	1.74	1.61
11	AB	634	DG	O3'-P	8.58	1.74	1.61
11	AB	836	DT	O3'-P	8.58	1.74	1.61
11	AB	942	DG	O3'-P	8.58	1.74	1.61
11	AB	1213	DT	O3'-P	8.58	1.74	1.61
11	AB	1639	DG	O3'-P	8.58	1.74	1.61
11	AB	2263	DG	O3'-P	8.58	1.74	1.61
11	AB	4372	DA	O3'-P	8.58	1.74	1.61
11	AB	4402	DT	O3'-P	8.58	1.74	1.61
11	AB	1347	DG	O3'-P	8.58	1.74	1.61
11	AB	2323	DT	O3'-P	8.58	1.74	1.61
11	AB	2345	DG	O3'-P	8.58	1.74	1.61
11	AB	2367	DT	O3'-P	8.58	1.74	1.61
11	AB	2991	DT	O3'-P	8.58	1.74	1.61
11	AB	3105	DG	O3'-P	8.58	1.74	1.61
11	AB	4777	DG	O3'-P	8.58	1.74	1.61
11	AB	5646	DT	O3'-P	8.58	1.74	1.61
23	BA	16	DG	O3'-P	8.58	1.74	1.61
11	AB	3535	DT	O3'-P	8.58	1.74	1.61
11	AB	4006	DT	O3'-P	8.58	1.74	1.61
11	AB	5203	DG	O3'-P	8.58	1.74	1.61
11	AB	7076	DT	O3'-P	8.58	1.74	1.61
141	M8	16	DA	O3'-P	8.58	1.74	1.61
11	AB	5402	DT	O3'-P	8.58	1.74	1.61
11	AB	5563	DT	O3'-P	8.58	1.74	1.61
11	AB	5618	DT	O3'-P	8.58	1.74	1.61
11	AB	6930	DG	O3'-P	8.58	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	7005	DT	O3'-P	8.58	1.74	1.61
11	AB	7084	DG	O3'-P	8.58	1.74	1.61
18	B5	16	DA	O3'-P	8.58	1.74	1.61
26	C1	10	DA	O3'-P	8.58	1.74	1.61
27	C2	10	DA	O3'-P	8.58	1.74	1.61
48	E1	23	DA	O3'-P	8.58	1.74	1.61
67	FA	20	DT	O3'-P	8.58	1.74	1.61
50	E3	12	DT	O3'-P	8.58	1.74	1.61
54	E8	7	DT	O3'-P	8.58	1.74	1.61
96	I6	16	DA	O3'-P	8.58	1.74	1.61
134	LC	6	DA	O3'-P	8.58	1.74	1.61
100	IA	15	DT	O3'-P	8.58	1.74	1.61
122	KA	9	DT	O3'-P	8.58	1.74	1.61
122	KA	39	DA	O3'-P	8.58	1.74	1.61
123	KC	19	DG	O3'-P	8.58	1.74	1.61
125	L1	27	DA	O3'-P	8.58	1.74	1.61
137	M3	28	DT	O3'-P	8.58	1.74	1.61
171	P8	13	DT	O3'-P	8.58	1.74	1.61
147	N3	22	DA	O3'-P	8.58	1.74	1.61
158	O5	18	DA	O3'-P	8.58	1.74	1.61
161	O8	7	DT	O3'-P	8.58	1.74	1.61
184	QD	27	DT	O3'-P	8.58	1.74	1.61
212	U2	15	DT	O3'-P	8.58	1.74	1.61
224	V7	14	DT	O3'-P	8.58	1.74	1.61
227	VA	2	DA	O3'-P	8.58	1.74	1.61
231	W5	31	DT	O3'-P	8.58	1.74	1.61
1	A1	6	DA	O3'-P	8.58	1.74	1.61
11	AB	563	DT	O3'-P	8.58	1.74	1.61
11	AB	611	DT	O3'-P	8.58	1.74	1.61
11	AB	669	DA	O3'-P	8.58	1.74	1.61
11	AB	693	DA	O3'-P	8.58	1.74	1.61
11	AB	5418	DT	O3'-P	8.58	1.74	1.61
11	AB	847	DT	O3'-P	8.58	1.74	1.61
11	AB	1017	DA	O3'-P	8.58	1.74	1.61
11	AB	1051	DA	O3'-P	8.58	1.74	1.61
11	AB	1650	DT	O3'-P	8.58	1.74	1.61
11	AB	1891	DA	O3'-P	8.58	1.74	1.61
11	AB	1949	DG	O3'-P	8.58	1.74	1.61
11	AB	2162	DT	O3'-P	8.58	1.74	1.61
11	AB	2384	DT	O3'-P	8.58	1.74	1.61
11	AB	2457	DT	O3'-P	8.58	1.74	1.61
11	AB	2496	DA	O3'-P	8.58	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2975	DA	O3'-P	8.58	1.74	1.61
187	R5	32	DT	O3'-P	8.58	1.74	1.61
11	AB	2608	DT	O3'-P	8.58	1.74	1.61
11	AB	2910	DG	O3'-P	8.58	1.74	1.61
88	H9	2	DT	O3'-P	8.58	1.74	1.61
190	R9	29	DC	O3'-P	8.58	1.74	1.61
11	AB	3144	DT	O3'-P	8.58	1.74	1.61
11	AB	3186	DT	O3'-P	8.58	1.74	1.61
11	AB	3393	DG	O3'-P	8.58	1.74	1.61
11	AB	3514	DG	O3'-P	8.58	1.74	1.61
11	AB	3523	DT	O3'-P	8.58	1.74	1.61
18	B5	12	DG	O3'-P	8.58	1.74	1.61
19	B6	23	DT	O3'-P	8.58	1.74	1.61
11	AB	3779	DG	O3'-P	8.58	1.74	1.61
11	AB	3901	DA	O3'-P	8.58	1.74	1.61
11	AB	4322	DG	O3'-P	8.58	1.74	1.61
11	AB	4378	DA	O3'-P	8.58	1.74	1.61
11	AB	4689	DG	O3'-P	8.58	1.74	1.61
11	AB	4725	DG	O3'-P	8.58	1.74	1.61
11	AB	4757	DG	O3'-P	8.58	1.74	1.61
11	AB	4764	DA	O3'-P	8.58	1.74	1.61
11	AB	4820	DG	O3'-P	8.58	1.74	1.61
11	AB	4882	DT	O3'-P	8.58	1.74	1.61
11	AB	5144	DA	O3'-P	8.58	1.74	1.61
92	I1	10	DT	O3'-P	8.58	1.74	1.61
11	AB	5217	DT	O3'-P	8.58	1.74	1.61
11	AB	5310	DA	O3'-P	8.58	1.74	1.61
11	AB	5430	DG	O3'-P	8.58	1.74	1.61
11	AB	5862	DT	O3'-P	8.58	1.74	1.61
11	AB	6400	DG	O3'-P	8.58	1.74	1.61
11	AB	6484	DT	O3'-P	8.58	1.74	1.61
11	AB	6502	DT	O3'-P	8.58	1.74	1.61
11	AB	6722	DT	O3'-P	8.58	1.74	1.61
11	AB	6986	DT	O3'-P	8.58	1.74	1.61
15	B2	7	DA	O3'-P	8.58	1.74	1.61
26	C1	21	DT	O3'-P	8.58	1.74	1.61
11	AB	7181	DT	O3'-P	8.58	1.74	1.61
30	C6	25	DG	O3'-P	8.58	1.74	1.61
32	C8	28	DG	O3'-P	8.58	1.74	1.61
32	C8	43	DT	O3'-P	8.58	1.74	1.61
41	D6	3	DG	O3'-P	8.58	1.74	1.61
45	DA	24	DT	O3'-P	8.58	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	DD	32	DA	O3'-P	8.58	1.74	1.61
67	FA	11	DT	O3'-P	8.58	1.74	1.61
74	G6	10	DT	O3'-P	8.58	1.74	1.61
78	GA	5	DA	O3'-P	8.58	1.74	1.61
82	H2	50	DT	O3'-P	8.58	1.74	1.61
99	I9	10	DG	O3'-P	8.58	1.74	1.61
83	H3	5	DG	O3'-P	8.58	1.74	1.61
101	IC	21	DA	O3'-P	8.58	1.74	1.61
115	K2	28	DA	O3'-P	8.58	1.74	1.61
122	KA	1	DA	O3'-P	8.58	1.74	1.61
125	L1	19	DT	O3'-P	8.58	1.74	1.61
126	L2	18	DT	O3'-P	8.58	1.74	1.61
128	L5	5	DT	O3'-P	8.58	1.74	1.61
132	L9	15	DA	O3'-P	8.58	1.74	1.61
142	M9	5	DG	O3'-P	8.58	1.74	1.61
147	N3	5	DG	O3'-P	8.58	1.74	1.61
160	O7	44	DT	O3'-P	8.58	1.74	1.61
164	OC	7	DA	O3'-P	8.58	1.74	1.61
164	OC	22	DA	O3'-P	8.58	1.74	1.61
186	R3	14	DT	O3'-P	8.58	1.74	1.61
188	R7	22	DA	O3'-P	8.58	1.74	1.61
192	RC	19	DA	O3'-P	8.58	1.74	1.61
198	S8	44	DA	O3'-P	8.58	1.74	1.61
200	SA	24	DT	O3'-P	8.58	1.74	1.61
204	T3	1	DG	O3'-P	8.58	1.74	1.61
211	TD	39	DG	O3'-P	8.58	1.74	1.61
213	U3	19	DG	O3'-P	8.58	1.74	1.61
223	V5	4	DT	O3'-P	8.58	1.74	1.61
227	VA	22	DG	O3'-P	8.58	1.74	1.61
230	W3	5	DT	O3'-P	8.58	1.74	1.61
7	A7	5	DT	O3'-P	8.57	1.74	1.61
11	AB	173	DT	O3'-P	8.57	1.74	1.61
11	AB	625	DT	O3'-P	8.57	1.74	1.61
11	AB	1202	DT	O3'-P	8.57	1.74	1.61
11	AB	648	DA	O3'-P	8.57	1.74	1.61
11	AB	766	DG	O3'-P	8.57	1.74	1.61
11	AB	1225	DT	O3'-P	8.57	1.74	1.61
11	AB	1357	DT	O3'-P	8.57	1.74	1.61
11	AB	2562	DA	O3'-P	8.57	1.74	1.61
11	AB	2851	DG	O3'-P	8.57	1.74	1.61
11	AB	3318	DT	O3'-P	8.57	1.74	1.61
11	AB	3451	DT	O3'-P	8.57	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4879	DA	O3'-P	8.57	1.74	1.61
62	F5	15	DA	O3'-P	8.57	1.74	1.61
153	NA	5	DA	O3'-P	8.57	1.74	1.61
11	AB	1578	DA	O3'-P	8.57	1.74	1.61
11	AB	1800	DT	O3'-P	8.57	1.74	1.61
11	AB	2129	DT	O3'-P	8.57	1.74	1.61
11	AB	2204	DT	O3'-P	8.57	1.74	1.61
11	AB	2433	DA	O3'-P	8.57	1.74	1.61
11	AB	2582	DA	O3'-P	8.57	1.74	1.61
11	AB	2716	DA	O3'-P	8.57	1.74	1.61
11	AB	2781	DG	O3'-P	8.57	1.74	1.61
11	AB	3259	DA	O3'-P	8.57	1.74	1.61
11	AB	4251	DA	O3'-P	8.57	1.74	1.61
11	AB	4383	DA	O3'-P	8.57	1.74	1.61
11	AB	4799	DA	O3'-P	8.57	1.74	1.61
11	AB	5396	DT	O3'-P	8.57	1.74	1.61
11	AB	5533	DG	O3'-P	8.57	1.74	1.61
11	AB	5623	DA	O3'-P	8.57	1.74	1.61
11	AB	5629	DT	O3'-P	8.57	1.74	1.61
11	AB	6385	DG	O3'-P	8.57	1.74	1.61
11	AB	6590	DA	O3'-P	8.57	1.74	1.61
11	AB	6680	DT	O3'-P	8.57	1.74	1.61
11	AB	6774	DG	O3'-P	8.57	1.74	1.61
13	AD	33	DG	O3'-P	8.57	1.74	1.61
25	BD	5	DA	O3'-P	8.57	1.74	1.61
39	D3	32	DG	O3'-P	8.57	1.74	1.61
108	J7	55	DG	O3'-P	8.57	1.74	1.61
197	S7	1	DA	O3'-P	8.57	1.74	1.61
28	C3	5	DA	O3'-P	8.57	1.74	1.61
29	C5	25	DA	O3'-P	8.57	1.74	1.61
32	C8	21	DA	O3'-P	8.57	1.74	1.61
32	C8	36	DG	O3'-P	8.57	1.74	1.61
41	D6	25	DA	O3'-P	8.57	1.74	1.61
106	J5	1	DA	O3'-P	8.57	1.74	1.61
124	KD	3	DA	O3'-P	8.57	1.74	1.61
131	L8	6	DT	O3'-P	8.57	1.74	1.61
47	DD	7	DT	O3'-P	8.57	1.74	1.61
61	F3	3	DT	O3'-P	8.57	1.74	1.61
87	H8	10	DA	O3'-P	8.57	1.74	1.61
129	L6	23	DG	O3'-P	8.57	1.74	1.61
143	MA	37	DA	O3'-P	8.57	1.74	1.61
147	N3	12	DG	O3'-P	8.57	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
232	W7	19	DG	O3'-P	8.57	1.74	1.61
151	N8	19	DG	O3'-P	8.57	1.74	1.61
158	O5	44	DT	O3'-P	8.57	1.74	1.61
161	O8	15	DT	O3'-P	8.57	1.74	1.61
164	OC	9	DA	O3'-P	8.57	1.74	1.61
167	P3	7	DT	O3'-P	8.57	1.74	1.61
172	P9	20	DG	O3'-P	8.57	1.74	1.61
176	Q2	13	DA	O3'-P	8.57	1.74	1.61
177	Q3	25	DT	O3'-P	8.57	1.74	1.61
181	Q9	21	DA	O3'-P	8.57	1.74	1.61
183	QC	6	DT	O3'-P	8.57	1.74	1.61
198	S8	16	DA	O3'-P	8.57	1.74	1.61
203	T2	27	DA	O3'-P	8.57	1.74	1.61
204	T3	5	DG	O3'-P	8.57	1.74	1.61
232	W7	14	DT	O3'-P	8.57	1.74	1.61
238	X9	53	DG	O3'-P	8.57	1.74	1.61
234	W9	4	DA	O3'-P	8.57	1.74	1.61
237	X7	11	DT	O3'-P	8.57	1.74	1.61
1	A1	41	DG	O3'-P	8.57	1.74	1.61
11	AB	47	DA	O3'-P	8.57	1.74	1.61
11	AB	255	DA	O3'-P	8.57	1.74	1.61
11	AB	839	DA	O3'-P	8.57	1.74	1.61
11	AB	997	DA	O3'-P	8.57	1.74	1.61
11	AB	1064	DA	O3'-P	8.57	1.74	1.61
11	AB	2424	DT	O3'-P	8.57	1.74	1.61
11	AB	2968	DT	O3'-P	8.57	1.74	1.61
11	AB	3453	DT	O3'-P	8.57	1.74	1.61
91	HD	7	DT	O3'-P	8.57	1.74	1.61
11	AB	486	DA	O3'-P	8.57	1.74	1.61
11	AB	3377	DA	O3'-P	8.57	1.74	1.61
11	AB	3559	DT	O3'-P	8.57	1.74	1.61
11	AB	5943	DT	O3'-P	8.57	1.74	1.61
159	O6	17	DT	O3'-P	8.57	1.74	1.61
209	TA	15	DG	O3'-P	8.57	1.74	1.61
11	AB	528	DA	O3'-P	8.57	1.74	1.61
11	AB	1167	DT	O3'-P	8.57	1.74	1.61
11	AB	3469	DG	O3'-P	8.57	1.74	1.61
11	AB	4058	DT	O3'-P	8.57	1.74	1.61
11	AB	4398	DG	O3'-P	8.57	1.74	1.61
11	AB	4600	DG	O3'-P	8.57	1.74	1.61
11	AB	5967	DT	O3'-P	8.57	1.74	1.61
17	B4	19	DT	O3'-P	8.57	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	C6	39	DA	O3'-P	8.57	1.74	1.61
38	D2	2	DA	O3'-P	8.57	1.74	1.61
105	J3	14	DA	O3'-P	8.57	1.74	1.61
107	J6	22	DG	O3'-P	8.57	1.74	1.61
117	K5	18	DA	O3'-P	8.57	1.74	1.61
175	PD	5	DG	O3'-P	8.57	1.74	1.61
11	AB	1254	DT	O3'-P	8.57	1.74	1.61
11	AB	2565	DT	O3'-P	8.57	1.74	1.61
11	AB	2571	DT	O3'-P	8.57	1.74	1.61
11	AB	2683	DT	O3'-P	8.57	1.74	1.61
11	AB	3342	DT	O3'-P	8.57	1.74	1.61
11	AB	3553	DG	O3'-P	8.57	1.74	1.61
11	AB	3564	DT	O3'-P	8.57	1.74	1.61
11	AB	3625	DT	O3'-P	8.57	1.74	1.61
11	AB	3774	DG	O3'-P	8.57	1.74	1.61
11	AB	3816	DT	O3'-P	8.57	1.74	1.61
11	AB	3980	DT	O3'-P	8.57	1.74	1.61
11	AB	3989	DT	O3'-P	8.57	1.74	1.61
11	AB	4123	DA	O3'-P	8.57	1.74	1.61
11	AB	4486	DA	O3'-P	8.57	1.74	1.61
11	AB	4514	DG	O3'-P	8.57	1.74	1.61
11	AB	5123	DG	O3'-P	8.57	1.74	1.61
11	AB	7185	DT	O3'-P	8.57	1.74	1.61
11	AB	4440	DA	O3'-P	8.57	1.74	1.61
11	AB	4625	DG	O3'-P	8.57	1.74	1.61
11	AB	5599	DT	O3'-P	8.57	1.74	1.61
11	AB	6230	DA	O3'-P	8.57	1.74	1.61
32	C8	33	DA	O3'-P	8.57	1.74	1.61
104	J2	24	DA	O3'-P	8.57	1.74	1.61
11	AB	5715	DA	O3'-P	8.57	1.74	1.61
11	AB	6251	DA	O3'-P	8.57	1.74	1.61
11	AB	6294	DT	O3'-P	8.57	1.74	1.61
11	AB	6720	DT	O3'-P	8.57	1.74	1.61
11	AB	6741	DT	O3'-P	8.57	1.74	1.61
11	AB	7015	DG	O3'-P	8.57	1.74	1.61
43	D8	3	DT	O3'-P	8.57	1.74	1.61
51	E5	7	DG	O3'-P	8.57	1.74	1.61
97	I7	9	DA	O3'-P	8.57	1.74	1.61
106	J5	33	DG	O3'-P	8.57	1.74	1.61
115	K2	35	DA	O3'-P	8.57	1.74	1.61
120	K8	9	DG	O3'-P	8.57	1.74	1.61
122	KA	11	DG	O3'-P	8.57	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
177	Q3	14	DA	O3'-P	8.57	1.74	1.61
11	AB	7152	DT	O3'-P	8.57	1.74	1.61
11	AB	7187	DG	O3'-P	8.57	1.74	1.61
11	AB	7238	DT	O3'-P	8.57	1.74	1.61
13	AD	8	DT	O3'-P	8.57	1.74	1.61
13	AD	32	DG	O3'-P	8.57	1.74	1.61
22	B9	41	DG	O3'-P	8.57	1.74	1.61
44	D9	9	DA	O3'-P	8.57	1.74	1.61
44	D9	12	DA	O3'-P	8.57	1.74	1.61
48	E1	29	DA	O3'-P	8.57	1.74	1.61
61	F3	19	DA	O3'-P	8.57	1.74	1.61
72	G3	9	DT	O3'-P	8.57	1.74	1.61
88	H9	21	DG	O3'-P	8.57	1.74	1.61
106	J5	7	DG	O3'-P	8.57	1.74	1.61
117	K5	9	DA	O3'-P	8.57	1.74	1.61
119	K7	39	DG	O3'-P	8.57	1.74	1.61
136	M2	13	DT	O3'-P	8.57	1.74	1.61
143	MA	25	DA	O3'-P	8.57	1.74	1.61
166	P2	9	DG	O3'-P	8.57	1.74	1.61
174	PC	10	DG	O3'-P	8.57	1.74	1.61
177	Q3	7	DA	O3'-P	8.57	1.74	1.61
179	Q7	14	DT	O3'-P	8.57	1.74	1.61
180	Q8	20	DT	O3'-P	8.57	1.74	1.61
188	R7	7	DG	O3'-P	8.57	1.74	1.61
184	QD	19	DT	O3'-P	8.57	1.74	1.61
194	S2	1	DT	O3'-P	8.57	1.74	1.61
204	T3	38	DG	O3'-P	8.57	1.74	1.61
225	V8	25	DA	O3'-P	8.57	1.74	1.61
11	AB	98	DA	O3'-P	8.57	1.74	1.61
11	AB	323	DT	O3'-P	8.57	1.74	1.61
11	AB	491	DT	O3'-P	8.57	1.74	1.61
11	AB	526	DG	O3'-P	8.57	1.74	1.61
11	AB	817	DG	O3'-P	8.57	1.74	1.61
11	AB	958	DG	O3'-P	8.57	1.74	1.61
11	AB	1287	DG	O3'-P	8.57	1.74	1.61
11	AB	3937	DA	O3'-P	8.57	1.74	1.61
153	NA	21	DG	O3'-P	8.57	1.74	1.61
11	AB	1547	DT	O3'-P	8.57	1.74	1.61
11	AB	2062	DG	O3'-P	8.57	1.74	1.61
11	AB	2223	DA	O3'-P	8.57	1.74	1.61
11	AB	2691	DT	O3'-P	8.57	1.74	1.61
11	AB	2736	DT	O3'-P	8.57	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3445	DG	O3'-P	8.57	1.74	1.61
11	AB	3606	DG	O3'-P	8.57	1.74	1.61
11	AB	3858	DT	O3'-P	8.57	1.74	1.61
11	AB	4016	DA	O3'-P	8.57	1.74	1.61
11	AB	5884	DG	O3'-P	8.57	1.74	1.61
11	AB	5940	DT	O3'-P	8.57	1.74	1.61
29	C5	18	DA	O3'-P	8.57	1.74	1.61
96	I6	13	DT	O3'-P	8.57	1.74	1.61
195	S3	20	DT	O3'-P	8.57	1.74	1.61
207	T8	20	DT	O3'-P	8.57	1.74	1.61
11	AB	4105	DG	O3'-P	8.57	1.74	1.61
11	AB	4297	DG	O3'-P	8.57	1.74	1.61
11	AB	5659	DG	O3'-P	8.57	1.74	1.61
11	AB	6136	DG	O3'-P	8.57	1.74	1.61
11	AB	6372	DT	O3'-P	8.57	1.74	1.61
11	AB	6652	DG	O3'-P	8.57	1.74	1.61
11	AB	6701	DT	O3'-P	8.57	1.74	1.61
11	AB	7208	DG	O3'-P	8.57	1.74	1.61
36	CD	25	DT	O3'-P	8.57	1.74	1.61
40	D5	22	DT	O3'-P	8.57	1.74	1.61
43	D8	8	DG	O3'-P	8.57	1.74	1.61
44	D9	18	DG	O3'-P	8.57	1.74	1.61
52	E6	5	DA	O3'-P	8.57	1.74	1.61
76	G8	3	DG	O3'-P	8.57	1.74	1.61
95	I5	2	DA	O3'-P	8.57	1.74	1.61
91	HD	27	DT	O3'-P	8.57	1.74	1.61
113	JD	3	DG	O3'-P	8.57	1.74	1.61
118	K6	21	DT	O3'-P	8.57	1.74	1.61
216	U8	15	DA	O3'-P	8.57	1.74	1.61
126	L2	25	DA	O3'-P	8.57	1.74	1.61
127	L3	18	DT	O3'-P	8.57	1.74	1.61
141	M8	26	DA	O3'-P	8.57	1.74	1.61
143	MA	45	DG	O3'-P	8.57	1.74	1.61
156	O2	55	DA	O3'-P	8.57	1.74	1.61
160	O7	13	DG	O3'-P	8.57	1.74	1.61
164	OC	5	DT	O3'-P	8.57	1.74	1.61
169	P6	21	DT	O3'-P	8.57	1.74	1.61
188	R7	29	DG	O3'-P	8.57	1.74	1.61
219	UC	29	DA	O3'-P	8.57	1.74	1.61
220	UD	21	DA	O3'-P	8.57	1.74	1.61
229	VD	2	DA	O3'-P	8.57	1.74	1.61
233	W8	14	DG	O3'-P	8.57	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
237	X7	6	DA	O3'-P	8.57	1.74	1.61
11	AB	1555	DT	O3'-P	8.56	1.74	1.61
11	AB	1663	DT	O3'-P	8.56	1.74	1.61
3	A3	1	DT	O3'-P	8.56	1.74	1.61
11	AB	75	DT	O3'-P	8.56	1.74	1.61
11	AB	682	DA	O3'-P	8.56	1.74	1.61
11	AB	2303	DT	O3'-P	8.56	1.74	1.61
11	AB	3158	DT	O3'-P	8.56	1.74	1.61
11	AB	498	DG	O3'-P	8.56	1.74	1.61
11	AB	859	DG	O3'-P	8.56	1.74	1.61
11	AB	912	DG	O3'-P	8.56	1.74	1.61
11	AB	1007	DG	O3'-P	8.56	1.74	1.61
11	AB	1282	DG	O3'-P	8.56	1.74	1.61
11	AB	1403	DA	O3'-P	8.56	1.74	1.61
11	AB	1406	DG	O3'-P	8.56	1.74	1.61
11	AB	1505	DA	O3'-P	8.56	1.74	1.61
11	AB	1809	DA	O3'-P	8.56	1.74	1.61
11	AB	1922	DG	O3'-P	8.56	1.74	1.61
11	AB	2102	DA	O3'-P	8.56	1.74	1.61
11	AB	2371	DA	O3'-P	8.56	1.74	1.61
11	AB	2845	DT	O3'-P	8.56	1.74	1.61
11	AB	3300	DT	O3'-P	8.56	1.74	1.61
11	AB	3582	DT	O3'-P	8.56	1.74	1.61
11	AB	3644	DT	O3'-P	8.56	1.74	1.61
11	AB	3935	DA	O3'-P	8.56	1.74	1.61
130	L7	24	DT	O3'-P	8.56	1.74	1.61
11	AB	4107	DG	O3'-P	8.56	1.74	1.61
11	AB	4702	DG	O3'-P	8.56	1.74	1.61
11	AB	4861	DA	O3'-P	8.56	1.74	1.61
11	AB	5990	DA	O3'-P	8.56	1.74	1.61
11	AB	6528	DT	O3'-P	8.56	1.74	1.61
146	N2	12	DT	O3'-P	8.56	1.74	1.61
11	AB	5132	DG	O3'-P	8.56	1.74	1.61
11	AB	5215	DG	O3'-P	8.56	1.74	1.61
11	AB	5453	DT	O3'-P	8.56	1.74	1.61
11	AB	5475	DA	O3'-P	8.56	1.74	1.61
30	C6	10	DT	O3'-P	8.56	1.74	1.61
11	AB	5510	DT	O3'-P	8.56	1.74	1.61
11	AB	5681	DG	O3'-P	8.56	1.74	1.61
11	AB	5946	DG	O3'-P	8.56	1.74	1.61
11	AB	5972	DG	O3'-P	8.56	1.74	1.61
11	AB	6240	DT	O3'-P	8.56	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6325	DT	O3'-P	8.56	1.74	1.61
11	AB	6734	DG	O3'-P	8.56	1.74	1.61
11	AB	6964	DG	O3'-P	8.56	1.74	1.61
11	AB	7098	DA	O3'-P	8.56	1.74	1.61
55	E9	39	DA	O3'-P	8.56	1.74	1.61
70	G1	9	DA	O3'-P	8.56	1.74	1.61
11	AB	7226	DT	O3'-P	8.56	1.74	1.61
21	B8	7	DT	O3'-P	8.56	1.74	1.61
22	B9	4	DG	O3'-P	8.56	1.74	1.61
39	D3	2	DG	O3'-P	8.56	1.74	1.61
89	HA	21	DA	O3'-P	8.56	1.74	1.61
174	PC	23	DG	O3'-P	8.56	1.74	1.61
205	T5	13	DA	O3'-P	8.56	1.74	1.61
219	UC	19	DT	O3'-P	8.56	1.74	1.61
42	D7	16	DA	O3'-P	8.56	1.74	1.61
83	H3	27	DT	O3'-P	8.56	1.74	1.61
93	I2	8	DT	O3'-P	8.56	1.74	1.61
93	I2	45	DG	O3'-P	8.56	1.74	1.61
105	J3	29	DA	O3'-P	8.56	1.74	1.61
124	KD	6	DG	O3'-P	8.56	1.74	1.61
139	M6	16	DA	O3'-P	8.56	1.74	1.61
160	O7	1	DG	O3'-P	8.56	1.74	1.61
161	O8	46	DT	O3'-P	8.56	1.74	1.61
167	P3	1	DA	O3'-P	8.56	1.74	1.61
167	P3	20	DA	O3'-P	8.56	1.74	1.61
169	P6	10	DG	O3'-P	8.56	1.74	1.61
175	PD	17	DG	O3'-P	8.56	1.74	1.61
184	QD	1	DA	O3'-P	8.56	1.74	1.61
187	R5	8	DA	O3'-P	8.56	1.74	1.61
213	U3	12	DG	O3'-P	8.56	1.74	1.61
215	U7	11	DG	O3'-P	8.56	1.74	1.61
237	X7	16	DA	O3'-P	8.56	1.74	1.61
11	AB	514	DA	O3'-P	8.56	1.74	1.61
139	M6	9	DT	O3'-P	8.56	1.74	1.61
5	A5	6	DT	O3'-P	8.56	1.74	1.61
11	AB	199	DA	O3'-P	8.56	1.74	1.61
11	AB	600	DA	O3'-P	8.56	1.74	1.61
11	AB	642	DG	O3'-P	8.56	1.74	1.61
11	AB	700	DA	O3'-P	8.56	1.74	1.61
11	AB	750	DG	O3'-P	8.56	1.74	1.61
11	AB	870	DG	O3'-P	8.56	1.74	1.61
11	AB	1621	DA	O3'-P	8.56	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1992	DT	O3'-P	8.56	1.74	1.61
11	AB	2460	DT	O3'-P	8.56	1.74	1.61
11	AB	3463	DA	O3'-P	8.56	1.74	1.61
11	AB	5301	DG	O3'-P	8.56	1.74	1.61
226	V9	15	DG	O3'-P	8.56	1.74	1.61
11	AB	736	DA	O3'-P	8.56	1.74	1.61
11	AB	825	DT	O3'-P	8.56	1.74	1.61
11	AB	885	DG	O3'-P	8.56	1.74	1.61
11	AB	1047	DT	O3'-P	8.56	1.74	1.61
11	AB	1368	DA	O3'-P	8.56	1.74	1.61
11	AB	1389	DA	O3'-P	8.56	1.74	1.61
11	AB	1755	DG	O3'-P	8.56	1.74	1.61
11	AB	1797	DG	O3'-P	8.56	1.74	1.61
11	AB	2326	DG	O3'-P	8.56	1.74	1.61
11	AB	2900	DG	O3'-P	8.56	1.74	1.61
11	AB	3527	DT	O3'-P	8.56	1.74	1.61
11	AB	3551	DT	O3'-P	8.56	1.74	1.61
11	AB	3577	DA	O3'-P	8.56	1.74	1.61
11	AB	4933	DT	O3'-P	8.56	1.74	1.61
209	TA	30	DG	O3'-P	8.56	1.74	1.61
11	AB	2953	DA	O3'-P	8.56	1.74	1.61
11	AB	3080	DA	O3'-P	8.56	1.74	1.61
11	AB	4145	DG	O3'-P	8.56	1.74	1.61
11	AB	4178	DA	O3'-P	8.56	1.74	1.61
11	AB	4335	DG	O3'-P	8.56	1.74	1.61
11	AB	4614	DT	O3'-P	8.56	1.74	1.61
11	AB	4667	DG	O3'-P	8.56	1.74	1.61
11	AB	4876	DA	O3'-P	8.56	1.74	1.61
11	AB	5189	DA	O3'-P	8.56	1.74	1.61
11	AB	5258	DA	O3'-P	8.56	1.74	1.61
11	AB	5391	DG	O3'-P	8.56	1.74	1.61
11	AB	5415	DA	O3'-P	8.56	1.74	1.61
11	AB	5575	DG	O3'-P	8.56	1.74	1.61
11	AB	5935	DT	O3'-P	8.56	1.74	1.61
11	AB	6376	DA	O3'-P	8.56	1.74	1.61
11	AB	6413	DG	O3'-P	8.56	1.74	1.61
11	AB	6683	DA	O3'-P	8.56	1.74	1.61
11	AB	6763	DA	O3'-P	8.56	1.74	1.61
11	AB	6960	DT	O3'-P	8.56	1.74	1.61
35	CC	9	DA	O3'-P	8.56	1.74	1.61
54	E8	33	DT	O3'-P	8.56	1.74	1.61
59	F1	16	DA	O3'-P	8.56	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
82	H2	31	DA	O3'-P	8.56	1.74	1.61
21	B8	2	DA	O3'-P	8.56	1.74	1.61
40	D5	18	DG	O3'-P	8.56	1.74	1.61
42	D7	18	DG	O3'-P	8.56	1.74	1.61
43	D8	38	DA	O3'-P	8.56	1.74	1.61
75	G7	5	DA	O3'-P	8.56	1.74	1.61
88	H9	18	DA	O3'-P	8.56	1.74	1.61
94	I3	18	DA	O3'-P	8.56	1.74	1.61
156	O2	13	DT	O3'-P	8.56	1.74	1.61
213	U3	3	DT	O3'-P	8.56	1.74	1.61
93	I2	1	DA	O3'-P	8.56	1.74	1.61
94	I3	4	DA	O3'-P	8.56	1.74	1.61
98	I8	34	DG	O3'-P	8.56	1.74	1.61
103	J1	1	DA	O3'-P	8.56	1.74	1.61
112	JC	2	DG	O3'-P	8.56	1.74	1.61
114	K1	23	DT	O3'-P	8.56	1.74	1.61
127	L3	16	DA	O3'-P	8.56	1.74	1.61
140	M7	7	DA	O3'-P	8.56	1.74	1.61
156	O2	16	DA	O3'-P	8.56	1.74	1.61
157	O3	5	DA	O3'-P	8.56	1.74	1.61
165	OD	19	DA	O3'-P	8.56	1.74	1.61
182	QA	22	DA	O3'-P	8.56	1.74	1.61
190	R9	40	DA	O3'-P	8.56	1.74	1.61
192	RC	33	DG	O3'-P	8.56	1.74	1.61
196	S5	19	DA	O3'-P	8.56	1.74	1.61
197	S7	14	DT	O3'-P	8.56	1.74	1.61
209	TA	29	DG	O3'-P	8.56	1.74	1.61
211	TD	8	DA	O3'-P	8.56	1.74	1.61
238	X9	34	DA	O3'-P	8.56	1.74	1.61
2	A2	3	DG	O3'-P	8.56	1.74	1.61
11	AB	53	DG	O3'-P	8.56	1.74	1.61
11	AB	1916	DT	O3'-P	8.56	1.74	1.61
11	AB	5077	DT	O3'-P	8.56	1.74	1.61
11	AB	6064	DG	O3'-P	8.56	1.74	1.61
11	AB	6429	DT	O3'-P	8.56	1.74	1.61
11	AB	467	DA	O3'-P	8.56	1.74	1.61
11	AB	1208	DA	O3'-P	8.56	1.74	1.61
11	AB	2713	DG	O3'-P	8.56	1.74	1.61
11	AB	6537	DA	O3'-P	8.56	1.74	1.61
11	AB	6617	DA	O3'-P	8.56	1.74	1.61
69	FD	42	DA	O3'-P	8.56	1.74	1.61
11	AB	3494	DT	O3'-P	8.56	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3916	DG	O3'-P	8.56	1.74	1.61
11	AB	4215	DG	O3'-P	8.56	1.74	1.61
11	AB	4821	DG	O3'-P	8.56	1.74	1.61
24	BC	29	DA	O3'-P	8.56	1.74	1.61
11	AB	4838	DA	O3'-P	8.56	1.74	1.61
11	AB	4947	DG	O3'-P	8.56	1.74	1.61
11	AB	5017	DG	O3'-P	8.56	1.74	1.61
11	AB	5038	DA	O3'-P	8.56	1.74	1.61
11	AB	5497	DG	O3'-P	8.56	1.74	1.61
11	AB	5603	DA	O3'-P	8.56	1.74	1.61
11	AB	5737	DA	O3'-P	8.56	1.74	1.61
11	AB	5866	DG	O3'-P	8.56	1.74	1.61
11	AB	5988	DA	O3'-P	8.56	1.74	1.61
11	AB	6133	DT	O3'-P	8.56	1.74	1.61
11	AB	6288	DA	O3'-P	8.56	1.74	1.61
11	AB	6660	DA	O3'-P	8.56	1.74	1.61
11	AB	6804	DA	O3'-P	8.56	1.74	1.61
11	AB	7214	DG	O3'-P	8.56	1.74	1.61
22	B9	31	DA	O3'-P	8.56	1.74	1.61
41	D6	15	DA	O3'-P	8.56	1.74	1.61
54	E8	20	DA	O3'-P	8.56	1.74	1.61
97	I7	6	DA	O3'-P	8.56	1.74	1.61
106	J5	19	DA	O3'-P	8.56	1.74	1.61
106	J5	22	DA	O3'-P	8.56	1.74	1.61
109	J8	2	DG	O3'-P	8.56	1.74	1.61
182	QA	16	DA	O3'-P	8.56	1.74	1.61
113	JD	27	DA	O3'-P	8.56	1.74	1.61
123	KC	18	DG	O3'-P	8.56	1.74	1.61
125	L1	55	DG	O3'-P	8.56	1.74	1.61
145	MD	11	DT	O3'-P	8.56	1.74	1.61
145	MD	48	DA	O3'-P	8.56	1.74	1.61
166	P2	21	DG	O3'-P	8.56	1.74	1.61
189	R8	18	DA	O3'-P	8.56	1.74	1.61
197	S7	3	DA	O3'-P	8.56	1.74	1.61
203	T2	19	DT	O3'-P	8.56	1.74	1.61
220	UD	9	DG	O3'-P	8.56	1.74	1.61
222	V3	15	DA	O3'-P	8.56	1.74	1.61
11	AB	354	DA	O3'-P	8.55	1.74	1.61
11	AB	573	DT	O3'-P	8.56	1.74	1.61
11	AB	873	DG	O3'-P	8.55	1.74	1.61
11	AB	882	DG	O3'-P	8.56	1.74	1.61
11	AB	1399	DA	O3'-P	8.56	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1442	DG	O3'-P	8.55	1.74	1.61
11	AB	1722	DA	O3'-P	8.56	1.74	1.61
11	AB	2144	DG	O3'-P	8.56	1.74	1.61
11	AB	2310	DG	O3'-P	8.56	1.74	1.61
11	AB	2449	DA	O3'-P	8.56	1.74	1.61
11	AB	2610	DT	O3'-P	8.56	1.74	1.61
11	AB	3293	DG	O3'-P	8.56	1.74	1.61
11	AB	4115	DA	O3'-P	8.56	1.74	1.61
11	AB	4734	DT	O3'-P	8.56	1.74	1.61
16	B3	16	DG	O3'-P	8.56	1.74	1.61
30	C6	31	DG	O3'-P	8.55	1.74	1.61
94	I3	37	DG	O3'-P	8.56	1.74	1.61
107	J6	17	DA	O3'-P	8.55	1.74	1.61
182	QA	20	DG	O3'-P	8.56	1.74	1.61
11	AB	298	DA	O3'-P	8.55	1.74	1.61
11	AB	752	DT	O3'-P	8.55	1.74	1.61
11	AB	1713	DT	O3'-P	8.55	1.74	1.61
11	AB	1729	DA	O3'-P	8.55	1.74	1.61
11	AB	2169	DG	O3'-P	8.55	1.74	1.61
11	AB	2382	DA	O3'-P	8.55	1.74	1.61
11	AB	2902	DT	O3'-P	8.55	1.74	1.61
11	AB	3953	DG	O3'-P	8.55	1.74	1.61
11	AB	4212	DG	O3'-P	8.55	1.74	1.61
11	AB	4593	DT	O3'-P	8.56	1.74	1.61
76	G8	6	DG	O3'-P	8.56	1.74	1.61
109	J8	40	DG	O3'-P	8.56	1.74	1.61
117	K5	6	DT	O3'-P	8.56	1.74	1.61
125	L1	4	DA	O3'-P	8.56	1.74	1.61
139	M6	15	DT	O3'-P	8.56	1.74	1.61
11	AB	3646	DT	O3'-P	8.55	1.74	1.61
11	AB	3942	DT	O3'-P	8.55	1.74	1.61
11	AB	4359	DA	O3'-P	8.55	1.74	1.61
11	AB	4388	DA	O3'-P	8.55	1.74	1.61
11	AB	4451	DA	O3'-P	8.55	1.74	1.61
11	AB	4710	DG	O3'-P	8.55	1.74	1.61
11	AB	4943	DG	O3'-P	8.55	1.74	1.61
11	AB	5323	DG	O3'-P	8.55	1.74	1.61
52	E6	12	DA	O3'-P	8.55	1.74	1.61
60	F2	19	DG	O3'-P	8.55	1.74	1.61
11	AB	4869	DT	O3'-P	8.55	1.74	1.61
11	AB	4890	DG	O3'-P	8.55	1.74	1.61
11	AB	5148	DA	O3'-P	8.55	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5458	DT	O3'-P	8.55	1.74	1.61
11	AB	5619	DA	O3'-P	8.55	1.74	1.61
11	AB	5763	DG	O3'-P	8.55	1.74	1.61
11	AB	5955	DG	O3'-P	8.55	1.74	1.61
11	AB	6471	DT	O3'-P	8.55	1.74	1.61
11	AB	6570	DT	O3'-P	8.55	1.74	1.61
22	B9	37	DA	O3'-P	8.55	1.74	1.61
33	C9	3	DT	O3'-P	8.55	1.74	1.61
33	C9	11	DA	O3'-P	8.55	1.74	1.61
60	F2	28	DA	O3'-P	8.55	1.74	1.61
74	G6	11	DA	O3'-P	8.55	1.74	1.61
99	I9	6	DA	O3'-P	8.55	1.74	1.61
101	IC	26	DT	O3'-P	8.55	1.74	1.61
108	J7	45	DA	O3'-P	8.55	1.74	1.61
113	JD	16	DT	O3'-P	8.55	1.74	1.61
123	KC	21	DG	O3'-P	8.55	1.74	1.61
143	MA	9	DG	O3'-P	8.55	1.74	1.61
187	R5	20	DG	O3'-P	8.55	1.74	1.61
191	RA	9	DG	O3'-P	8.55	1.74	1.61
105	J3	22	DA	O3'-P	8.55	1.74	1.61
133	LA	12	DG	O3'-P	8.55	1.74	1.61
143	MA	30	DG	O3'-P	8.55	1.74	1.61
144	MC	5	DG	O3'-P	8.55	1.74	1.61
144	MC	6	DG	O3'-P	8.55	1.74	1.61
173	PA	25	DT	O3'-P	8.55	1.74	1.61
182	QA	4	DA	O3'-P	8.55	1.74	1.61
196	S5	23	DA	O3'-P	8.55	1.74	1.61
199	S9	8	DA	O3'-P	8.55	1.74	1.61
214	U5	17	DG	O3'-P	8.55	1.74	1.61
227	VA	15	DA	O3'-P	8.55	1.74	1.61
238	X9	41	DT	O3'-P	8.55	1.74	1.61
1	A1	9	DA	O3'-P	8.55	1.74	1.61
4	A4	16	DT	O3'-P	8.55	1.74	1.61
11	AB	249	DT	O3'-P	8.55	1.74	1.61
11	AB	427	DG	O3'-P	8.55	1.74	1.61
11	AB	442	DG	O3'-P	8.55	1.74	1.61
11	AB	663	DA	O3'-P	8.55	1.74	1.61
11	AB	829	DA	O3'-P	8.55	1.74	1.61
11	AB	1246	DT	O3'-P	8.55	1.74	1.61
11	AB	4020	DG	O3'-P	8.55	1.74	1.61
11	AB	960	DT	O3'-P	8.55	1.74	1.61
11	AB	1395	DG	O3'-P	8.55	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1501	DG	O3'-P	8.55	1.74	1.61
11	AB	1979	DG	O3'-P	8.55	1.74	1.61
11	AB	2207	DT	O3'-P	8.55	1.74	1.61
11	AB	3810	DG	O3'-P	8.55	1.74	1.61
205	T5	5	DA	O3'-P	8.55	1.74	1.61
11	AB	1855	DG	O3'-P	8.55	1.74	1.61
11	AB	3568	DG	O3'-P	8.55	1.74	1.61
11	AB	3949	DT	O3'-P	8.55	1.74	1.61
11	AB	4071	DG	O3'-P	8.55	1.74	1.61
11	AB	4103	DA	O3'-P	8.55	1.74	1.61
11	AB	4896	DA	O3'-P	8.55	1.74	1.61
11	AB	3697	DG	O3'-P	8.55	1.74	1.61
11	AB	4301	DT	O3'-P	8.55	1.74	1.61
11	AB	4385	DT	O3'-P	8.55	1.74	1.61
11	AB	4928	DG	O3'-P	8.55	1.74	1.61
11	AB	4998	DG	O3'-P	8.55	1.74	1.61
11	AB	5074	DT	O3'-P	8.55	1.74	1.61
11	AB	5127	DA	O3'-P	8.55	1.74	1.61
11	AB	5165	DA	O3'-P	8.55	1.74	1.61
11	AB	5252	DG	O3'-P	8.55	1.74	1.61
11	AB	5521	DG	O3'-P	8.55	1.74	1.61
11	AB	5601	DT	O3'-P	8.55	1.74	1.61
164	OC	11	DG	O3'-P	8.55	1.74	1.61
205	T5	2	DG	O3'-P	8.55	1.74	1.61
11	AB	5543	DT	O3'-P	8.55	1.74	1.61
11	AB	5698	DT	O3'-P	8.55	1.74	1.61
11	AB	5740	DA	O3'-P	8.55	1.74	1.61
11	AB	5788	DT	O3'-P	8.55	1.74	1.61
11	AB	6443	DA	O3'-P	8.55	1.74	1.61
11	AB	6477	DT	O3'-P	8.55	1.74	1.61
37	D1	20	DA	O3'-P	8.55	1.74	1.61
58	ED	38	DT	O3'-P	8.55	1.74	1.61
91	HD	19	DG	O3'-P	8.55	1.74	1.61
11	AB	6492	DG	O3'-P	8.55	1.74	1.61
11	AB	6505	DG	O3'-P	8.55	1.74	1.61
11	AB	6609	DA	O3'-P	8.55	1.74	1.61
11	AB	6806	DT	O3'-P	8.55	1.74	1.61
163	OA	9	DA	O3'-P	8.55	1.74	1.61
11	AB	6620	DG	O3'-P	8.55	1.74	1.61
11	AB	6730	DG	O3'-P	8.55	1.74	1.61
11	AB	6821	DG	O3'-P	8.55	1.74	1.61
11	AB	7235	DG	O3'-P	8.55	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B9	8	DG	O3'-P	8.55	1.74	1.61
27	C2	20	DG	O3'-P	8.55	1.74	1.61
38	D2	17	DG	O3'-P	8.55	1.74	1.61
39	D3	5	DT	O3'-P	8.55	1.74	1.61
47	DD	18	DA	O3'-P	8.55	1.74	1.61
49	E2	42	DA	O3'-P	8.55	1.74	1.61
51	E5	33	DA	O3'-P	8.55	1.74	1.61
54	E8	17	DT	O3'-P	8.55	1.74	1.61
57	EC	14	DG	O3'-P	8.55	1.74	1.61
61	F3	6	DG	O3'-P	8.55	1.74	1.61
62	F5	46	DT	O3'-P	8.55	1.74	1.61
79	GC	23	DA	O3'-P	8.55	1.74	1.61
234	W9	17	DA	O3'-P	8.55	1.74	1.61
64	F7	8	DT	O3'-P	8.55	1.74	1.61
72	G3	23	DA	O3'-P	8.55	1.74	1.61
86	H7	5	DA	O3'-P	8.55	1.74	1.61
104	J2	6	DA	O3'-P	8.55	1.74	1.61
114	K1	41	DT	O3'-P	8.55	1.74	1.61
122	KA	45	DA	O3'-P	8.55	1.74	1.61
117	K5	3	DG	O3'-P	8.55	1.74	1.61
137	M3	23	DA	O3'-P	8.55	1.74	1.61
148	N5	23	DA	O3'-P	8.55	1.74	1.61
149	N6	10	DT	O3'-P	8.55	1.74	1.61
151	N8	4	DA	O3'-P	8.55	1.74	1.61
166	P2	11	DG	O3'-P	8.55	1.74	1.61
187	R5	30	DT	O3'-P	8.55	1.74	1.61
190	R9	45	DG	O3'-P	8.55	1.74	1.61
193	RD	7	DA	O3'-P	8.55	1.74	1.61
204	T3	23	DG	O3'-P	8.55	1.74	1.61
213	U3	11	DG	O3'-P	8.55	1.74	1.61
218	UA	6	DG	O3'-P	8.55	1.74	1.61
221	V2	18	DT	O3'-P	8.55	1.74	1.61
238	X9	25	DG	O3'-P	8.55	1.74	1.61
238	X9	32	DT	O3'-P	8.55	1.74	1.61
11	AB	417	DT	O3'-P	8.55	1.74	1.61
11	AB	2923	DT	O3'-P	8.55	1.74	1.61
11	AB	4121	DA	O3'-P	8.55	1.74	1.61
3	A3	11	DT	O3'-P	8.55	1.74	1.61
11	AB	25	DG	O3'-P	8.55	1.74	1.61
11	AB	540	DG	O3'-P	8.55	1.74	1.61
11	AB	558	DG	O3'-P	8.55	1.74	1.61
11	AB	5450	DT	O3'-P	8.55	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	748	DA	O3'-P	8.55	1.74	1.61
11	AB	1281	DG	O3'-P	8.55	1.74	1.61
11	AB	1940	DA	O3'-P	8.55	1.74	1.61
11	AB	6725	DT	O3'-P	8.55	1.74	1.61
104	J2	12	DG	O3'-P	8.55	1.74	1.61
165	OD	26	DA	O3'-P	8.55	1.74	1.61
11	AB	1441	DG	O3'-P	8.55	1.74	1.61
11	AB	1882	DG	O3'-P	8.55	1.74	1.61
11	AB	1996	DA	O3'-P	8.55	1.74	1.61
11	AB	2522	DT	O3'-P	8.55	1.74	1.61
11	AB	3484	DA	O3'-P	8.55	1.74	1.61
11	AB	3762	DT	O3'-P	8.55	1.74	1.61
11	AB	3877	DA	O3'-P	8.55	1.74	1.61
11	AB	5084	DG	O3'-P	8.55	1.74	1.61
11	AB	5153	DA	O3'-P	8.55	1.74	1.61
11	AB	6865	DT	O3'-P	8.55	1.74	1.61
11	AB	7244	DA	O3'-P	8.55	1.74	1.61
11	AB	5590	DT	O3'-P	8.55	1.74	1.61
11	AB	5793	DG	O3'-P	8.55	1.74	1.61
11	AB	6411	DT	O3'-P	8.55	1.74	1.61
11	AB	6898	DA	O3'-P	8.55	1.74	1.61
16	B3	17	DG	O3'-P	8.55	1.74	1.61
36	CD	22	DT	O3'-P	8.55	1.74	1.61
19	B6	11	DA	O3'-P	8.55	1.74	1.61
23	BA	23	DA	O3'-P	8.55	1.74	1.61
99	I9	20	DG	O3'-P	8.55	1.74	1.61
102	ID	23	DG	O3'-P	8.55	1.74	1.61
103	J1	16	DT	O3'-P	8.55	1.74	1.61
104	J2	17	DA	O3'-P	8.55	1.74	1.61
211	TD	37	DT	O3'-P	8.55	1.74	1.61
214	U5	8	DG	O3'-P	8.55	1.74	1.61
122	KA	12	DG	O3'-P	8.55	1.74	1.61
125	L1	54	DG	O3'-P	8.55	1.74	1.61
126	L2	7	DA	O3'-P	8.55	1.74	1.61
147	N3	16	DT	O3'-P	8.55	1.74	1.61
147	N3	20	DG	O3'-P	8.55	1.74	1.61
186	R3	19	DG	O3'-P	8.55	1.74	1.61
195	S3	10	DA	O3'-P	8.55	1.74	1.61
201	SC	17	DA	O3'-P	8.55	1.74	1.61
213	U3	10	DG	O3'-P	8.55	1.74	1.61
2	A2	29	DT	O3'-P	8.54	1.74	1.61
11	AB	137	DG	O3'-P	8.55	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2842	DT	O3'-P	8.55	1.74	1.61
11	AB	3636	DG	O3'-P	8.55	1.74	1.61
11	AB	4543	DT	O3'-P	8.55	1.74	1.61
98	I8	25	DG	O3'-P	8.55	1.74	1.61
11	AB	44	DG	O3'-P	8.54	1.74	1.61
11	AB	49	DT	O3'-P	8.54	1.74	1.61
11	AB	822	DT	O3'-P	8.54	1.74	1.61
11	AB	5983	DT	O3'-P	8.55	1.74	1.61
11	AB	6952	DA	O3'-P	8.55	1.74	1.61
11	AB	879	DG	O3'-P	8.54	1.74	1.61
11	AB	933	DT	O3'-P	8.54	1.74	1.61
11	AB	1242	DT	O3'-P	8.54	1.74	1.61
11	AB	2994	DA	O3'-P	8.55	1.74	1.61
11	AB	1573	DG	O3'-P	8.54	1.74	1.61
11	AB	1750	DG	O3'-P	8.54	1.74	1.61
11	AB	1905	DG	O3'-P	8.54	1.74	1.61
11	AB	2044	DG	O3'-P	8.54	1.74	1.61
11	AB	2099	DT	O3'-P	8.54	1.74	1.61
11	AB	2451	DG	O3'-P	8.54	1.74	1.61
11	AB	2637	DA	O3'-P	8.54	1.74	1.61
11	AB	3018	DA	O3'-P	8.55	1.74	1.61
11	AB	4131	DG	O3'-P	8.55	1.74	1.61
11	AB	5211	DA	O3'-P	8.55	1.74	1.61
82	H2	33	DT	O3'-P	8.55	1.74	1.61
11	AB	3212	DG	O3'-P	8.54	1.74	1.61
11	AB	3408	DG	O3'-P	8.54	1.74	1.61
11	AB	4085	DG	O3'-P	8.54	1.74	1.61
11	AB	4110	DG	O3'-P	8.54	1.74	1.61
11	AB	4532	DG	O3'-P	8.54	1.74	1.61
11	AB	5333	DA	O3'-P	8.54	1.74	1.61
11	AB	5371	DA	O3'-P	8.54	1.74	1.61
11	AB	5827	DA	O3'-P	8.54	1.74	1.61
11	AB	5962	DA	O3'-P	8.54	1.74	1.61
11	AB	6034	DT	O3'-P	8.54	1.74	1.61
11	AB	6104	DT	O3'-P	8.54	1.74	1.61
160	O7	32	DA	O3'-P	8.55	1.74	1.61
184	QD	3	DA	O3'-P	8.55	1.74	1.61
11	AB	6844	DA	O3'-P	8.54	1.74	1.61
11	AB	7089	DA	O3'-P	8.54	1.74	1.61
11	AB	7204	DT	O3'-P	8.54	1.74	1.61
27	C2	5	DG	O3'-P	8.54	1.74	1.61
58	ED	29	DG	O3'-P	8.54	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
94	I3	26	DA	O3'-P	8.55	1.74	1.61
60	F2	24	DG	O3'-P	8.54	1.74	1.61
93	I2	17	DA	O3'-P	8.54	1.74	1.61
103	J1	13	DG	O3'-P	8.54	1.74	1.61
115	K2	15	DG	O3'-P	8.54	1.74	1.61
119	K7	10	DA	O3'-P	8.55	1.74	1.61
122	KA	27	DG	O3'-P	8.54	1.74	1.61
143	MA	40	DG	O3'-P	8.54	1.74	1.61
152	N9	23	DG	O3'-P	8.54	1.74	1.61
174	PC	19	DG	O3'-P	8.54	1.74	1.61
206	T7	12	DG	O3'-P	8.55	1.74	1.61
179	Q7	21	DG	O3'-P	8.54	1.74	1.61
214	U5	2	DT	O3'-P	8.54	1.74	1.61
227	VA	26	DA	O3'-P	8.54	1.74	1.61
6	A6	13	DA	O3'-P	8.54	1.74	1.61
10	AA	11	DG	O3'-P	8.54	1.74	1.61
11	AB	95	DT	O3'-P	8.54	1.74	1.61
11	AB	104	DA	O3'-P	8.54	1.74	1.61
11	AB	113	DG	O3'-P	8.54	1.74	1.61
11	AB	271	DA	O3'-P	8.54	1.74	1.61
11	AB	279	DA	O3'-P	8.54	1.74	1.61
11	AB	292	DA	O3'-P	8.54	1.74	1.61
11	AB	386	DG	O3'-P	8.54	1.74	1.61
11	AB	590	DG	O3'-P	8.54	1.74	1.61
11	AB	833	DG	O3'-P	8.54	1.74	1.61
11	AB	893	DG	O3'-P	8.54	1.74	1.61
11	AB	900	DG	O3'-P	8.54	1.74	1.61
11	AB	1043	DA	O3'-P	8.54	1.74	1.61
11	AB	1866	DA	O3'-P	8.54	1.74	1.61
11	AB	1981	DG	O3'-P	8.54	1.74	1.61
11	AB	2331	DA	O3'-P	8.54	1.74	1.61
11	AB	2352	DA	O3'-P	8.54	1.74	1.61
11	AB	6116	DA	O3'-P	8.54	1.74	1.61
11	AB	6349	DG	O3'-P	8.54	1.74	1.61
11	AB	6773	DG	O3'-P	8.54	1.74	1.61
11	AB	7018	DG	O3'-P	8.54	1.74	1.61
117	K5	7	DA	O3'-P	8.54	1.74	1.61
123	KC	24	DA	O3'-P	8.54	1.74	1.61
128	L5	10	DG	O3'-P	8.54	1.74	1.61
187	R5	10	DG	O3'-P	8.54	1.74	1.61
210	TC	26	DA	O3'-P	8.54	1.74	1.61
218	UA	7	DG	O3'-P	8.54	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	525	DG	O3'-P	8.54	1.74	1.61
11	AB	1510	DT	O3'-P	8.54	1.74	1.61
11	AB	2210	DT	O3'-P	8.54	1.74	1.61
11	AB	2758	DT	O3'-P	8.54	1.74	1.61
11	AB	2763	DA	O3'-P	8.54	1.74	1.61
11	AB	3142	DG	O3'-P	8.54	1.74	1.61
11	AB	3219	DG	O3'-P	8.54	1.74	1.61
11	AB	3621	DG	O3'-P	8.54	1.74	1.61
11	AB	4127	DG	O3'-P	8.54	1.74	1.61
11	AB	4249	DG	O3'-P	8.54	1.74	1.61
11	AB	4547	DA	O3'-P	8.54	1.74	1.61
11	AB	4805	DT	O3'-P	8.54	1.74	1.61
11	AB	5554	DA	O3'-P	8.54	1.74	1.61
129	L6	27	DA	O3'-P	8.54	1.74	1.61
187	R5	38	DA	O3'-P	8.54	1.74	1.61
11	AB	5658	DG	O3'-P	8.54	1.74	1.61
11	AB	5798	DG	O3'-P	8.54	1.74	1.61
11	AB	7017	DG	O3'-P	8.54	1.74	1.61
11	AB	7241	DG	O3'-P	8.54	1.74	1.61
21	B8	15	DG	O3'-P	8.54	1.74	1.61
26	C1	13	DT	O3'-P	8.54	1.74	1.61
37	D1	31	DG	O3'-P	8.54	1.74	1.61
43	D8	22	DA	O3'-P	8.54	1.74	1.61
44	D9	3	DA	O3'-P	8.54	1.74	1.61
52	E6	16	DG	O3'-P	8.54	1.74	1.61
63	F6	9	DG	O3'-P	8.54	1.74	1.61
144	MC	4	DG	O3'-P	8.54	1.74	1.61
214	U5	21	DG	O3'-P	8.54	1.74	1.61
227	VA	20	DG	O3'-P	8.54	1.74	1.61
63	F6	14	DA	O3'-P	8.54	1.74	1.61
83	H3	9	DT	O3'-P	8.54	1.74	1.61
86	H7	21	DG	O3'-P	8.54	1.74	1.61
118	K6	9	DG	O3'-P	8.54	1.74	1.61
126	L2	41	DA	O3'-P	8.54	1.74	1.61
143	MA	35	DA	O3'-P	8.54	1.74	1.61
143	MA	43	DG	O3'-P	8.54	1.74	1.61
152	N9	33	DA	O3'-P	8.54	1.74	1.61
192	RC	26	DT	O3'-P	8.54	1.74	1.61
221	V2	5	DA	O3'-P	8.54	1.74	1.61
223	V5	37	DG	O3'-P	8.54	1.74	1.61
235	WD	15	DA	O3'-P	8.54	1.74	1.61
11	AB	228	DG	O3'-P	8.54	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1706	DG	O3'-P	8.54	1.74	1.61
11	AB	2455	DG	O3'-P	8.54	1.74	1.61
11	AB	4118	DG	O3'-P	8.54	1.74	1.61
68	FC	17	DG	O3'-P	8.54	1.74	1.61
11	AB	456	DG	O3'-P	8.54	1.74	1.61
11	AB	1075	DT	O3'-P	8.54	1.74	1.61
11	AB	1769	DG	O3'-P	8.54	1.74	1.61
11	AB	2040	DA	O3'-P	8.54	1.74	1.61
11	AB	2175	DT	O3'-P	8.54	1.74	1.61
11	AB	2265	DT	O3'-P	8.54	1.74	1.61
11	AB	3832	DA	O3'-P	8.54	1.74	1.61
11	AB	4214	DG	O3'-P	8.54	1.74	1.61
11	AB	4747	DG	O3'-P	8.54	1.74	1.61
11	AB	4859	DG	O3'-P	8.54	1.74	1.61
11	AB	5830	DA	O3'-P	8.54	1.74	1.61
11	AB	5851	DA	O3'-P	8.54	1.74	1.61
11	AB	6448	DG	O3'-P	8.54	1.74	1.61
64	F7	19	DG	O3'-P	8.54	1.74	1.61
84	H5	16	DT	O3'-P	8.54	1.74	1.61
88	H9	27	DG	O3'-P	8.54	1.74	1.61
90	HC	8	DG	O3'-P	8.54	1.74	1.61
90	HC	18	DA	O3'-P	8.54	1.74	1.61
133	LA	6	DG	O3'-P	8.54	1.74	1.61
163	OA	2	DG	O3'-P	8.54	1.74	1.61
173	PA	8	DA	O3'-P	8.54	1.74	1.61
190	R9	43	DA	O3'-P	8.54	1.74	1.61
233	W8	13	DG	O3'-P	8.54	1.74	1.61
11	AB	1692	DT	O3'-P	8.54	1.74	1.61
11	AB	1959	DT	O3'-P	8.54	1.74	1.61
11	AB	2839	DT	O3'-P	8.54	1.74	1.61
11	AB	2959	DA	O3'-P	8.54	1.74	1.61
11	AB	2971	DT	O3'-P	8.54	1.74	1.61
11	AB	3043	DG	O3'-P	8.54	1.74	1.61
11	AB	3213	DG	O3'-P	8.54	1.74	1.61
11	AB	3652	DG	O3'-P	8.54	1.74	1.61
11	AB	4545	DT	O3'-P	8.54	1.74	1.61
11	AB	4634	DA	O3'-P	8.54	1.74	1.61
11	AB	4637	DG	O3'-P	8.54	1.74	1.61
11	AB	5504	DT	O3'-P	8.54	1.74	1.61
107	J6	43	DG	O3'-P	8.54	1.74	1.61
11	AB	4670	DA	O3'-P	8.54	1.74	1.61
11	AB	4845	DG	O3'-P	8.54	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5001	DG	O3'-P	8.54	1.74	1.61
11	AB	5121	DA	O3'-P	8.54	1.74	1.61
11	AB	5139	DT	O3'-P	8.54	1.74	1.61
11	AB	5276	DG	O3'-P	8.54	1.74	1.61
11	AB	5860	DG	O3'-P	8.54	1.74	1.61
11	AB	7109	DG	O3'-P	8.54	1.74	1.61
45	DA	17	DA	O3'-P	8.54	1.74	1.61
47	DD	9	DA	O3'-P	8.54	1.74	1.61
101	IC	18	DG	O3'-P	8.54	1.74	1.61
181	Q9	6	DA	O3'-P	8.54	1.74	1.61
108	J7	7	DG	O3'-P	8.54	1.74	1.61
122	KA	5	DG	O3'-P	8.54	1.74	1.61
173	PA	34	DA	O3'-P	8.54	1.74	1.61
174	PC	5	DA	O3'-P	8.54	1.74	1.61
186	R3	5	DG	O3'-P	8.54	1.74	1.61
189	R8	27	DG	O3'-P	8.54	1.74	1.61
11	AB	305	DG	O3'-P	8.54	1.74	1.61
11	AB	676	DG	O3'-P	8.54	1.74	1.61
11	AB	3721	DA	O3'-P	8.54	1.74	1.61
11	AB	3874	DA	O3'-P	8.54	1.74	1.61
11	AB	4920	DG	O3'-P	8.54	1.74	1.61
11	AB	5410	DG	O3'-P	8.54	1.74	1.61
13	AD	14	DG	O3'-P	8.54	1.74	1.61
46	DC	12	DA	O3'-P	8.54	1.74	1.61
57	EC	3	DA	O3'-P	8.54	1.74	1.61
7	A7	15	DG	O3'-P	8.53	1.74	1.61
11	AB	657	DA	O3'-P	8.53	1.74	1.61
11	AB	856	DG	O3'-P	8.54	1.74	1.61
11	AB	3050	DA	O3'-P	8.54	1.74	1.61
136	M2	16	DG	O3'-P	8.54	1.74	1.61
136	M2	17	DG	O3'-P	8.54	1.74	1.61
11	AB	894	DG	O3'-P	8.53	1.74	1.61
11	AB	908	DG	O3'-P	8.53	1.74	1.61
11	AB	915	DG	O3'-P	8.53	1.74	1.61
11	AB	1559	DG	O3'-P	8.53	1.74	1.61
11	AB	1920	DA	O3'-P	8.54	1.74	1.61
11	AB	2011	DA	O3'-P	8.53	1.74	1.61
11	AB	3168	DG	O3'-P	8.54	1.74	1.61
11	AB	3228	DA	O3'-P	8.54	1.74	1.61
11	AB	4631	DA	O3'-P	8.54	1.74	1.61
93	I2	25	DG	O3'-P	8.54	1.74	1.61
94	I3	39	DG	O3'-P	8.54	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
212	U2	18	DT	O3'-P	8.54	1.74	1.61
11	AB	3615	DT	O3'-P	8.53	1.74	1.61
11	AB	4073	DG	O3'-P	8.53	1.74	1.61
11	AB	4887	DA	O3'-P	8.54	1.74	1.61
11	AB	5019	DG	O3'-P	8.53	1.74	1.61
11	AB	5411	DG	O3'-P	8.53	1.74	1.61
11	AB	5929	DA	O3'-P	8.54	1.74	1.61
203	T2	23	DT	O3'-P	8.54	1.74	1.61
11	AB	6141	DG	O3'-P	8.53	1.74	1.61
11	AB	6520	DG	O3'-P	8.53	1.74	1.61
45	DA	14	DG	O3'-P	8.53	1.74	1.61
108	J7	11	DG	O3'-P	8.53	1.74	1.61
113	JD	23	DA	O3'-P	8.54	1.74	1.61
128	L5	13	DT	O3'-P	8.54	1.74	1.61
137	M3	31	DA	O3'-P	8.54	1.74	1.61
205	T5	15	DA	O3'-P	8.54	1.74	1.61
231	W5	15	DT	O3'-P	8.54	1.74	1.61
234	W9	7	DG	O3'-P	8.54	1.74	1.61
138	M5	3	DA	O3'-P	8.53	1.74	1.61
152	N9	26	DG	O3'-P	8.53	1.74	1.61
201	SC	8	DA	O3'-P	8.53	1.74	1.61
11	AB	2952	DT	O3'-P	8.53	1.74	1.61
5	A5	8	DG	O3'-P	8.53	1.74	1.61
11	AB	4	DT	O3'-P	8.53	1.74	1.61
11	AB	1011	DG	O3'-P	8.53	1.74	1.61
11	AB	1756	DG	O3'-P	8.53	1.74	1.61
11	AB	1967	DG	O3'-P	8.53	1.74	1.61
11	AB	2950	DG	O3'-P	8.53	1.74	1.61
11	AB	3046	DT	O3'-P	8.53	1.74	1.61
11	AB	3394	DG	O3'-P	8.53	1.74	1.61
11	AB	3511	DT	O3'-P	8.53	1.74	1.61
11	AB	3541	DG	O3'-P	8.53	1.74	1.61
11	AB	3637	DG	O3'-P	8.53	1.74	1.61
11	AB	4813	DG	O3'-P	8.53	1.74	1.61
11	AB	4622	DG	O3'-P	8.53	1.74	1.61
11	AB	4628	DG	O3'-P	8.53	1.74	1.61
11	AB	4865	DG	O3'-P	8.53	1.74	1.61
11	AB	4901	DG	O3'-P	8.53	1.74	1.61
11	AB	4925	DG	O3'-P	8.53	1.74	1.61
11	AB	5594	DG	O3'-P	8.53	1.74	1.61
11	AB	5241	DG	O3'-P	8.53	1.74	1.61
11	AB	5468	DG	O3'-P	8.53	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5695	DG	O3'-P	8.53	1.74	1.61
11	AB	5889	DA	O3'-P	8.53	1.74	1.61
11	AB	6004	DG	O3'-P	8.53	1.74	1.61
11	AB	6474	DG	O3'-P	8.53	1.74	1.61
11	AB	6796	DT	O3'-P	8.53	1.74	1.61
11	AB	7010	DT	O3'-P	8.53	1.74	1.61
11	AB	7224	DA	O3'-P	8.53	1.74	1.61
31	C7	19	DG	O3'-P	8.53	1.74	1.61
88	H9	4	DT	O3'-P	8.53	1.74	1.61
102	ID	4	DG	O3'-P	8.53	1.74	1.61
143	MA	17	DA	O3'-P	8.53	1.74	1.61
148	N5	10	DT	O3'-P	8.53	1.74	1.61
149	N6	50	DG	O3'-P	8.53	1.74	1.61
174	PC	26	DG	O3'-P	8.53	1.74	1.61
11	AB	19	DG	O3'-P	8.53	1.74	1.61
11	AB	3956	DT	O3'-P	8.53	1.74	1.61
11	AB	6995	DT	O3'-P	8.53	1.74	1.61
35	CC	26	DA	O3'-P	8.53	1.74	1.61
1	A1	27	DA	O3'-P	8.53	1.74	1.61
11	AB	369	DA	O3'-P	8.53	1.74	1.61
11	AB	447	DT	O3'-P	8.53	1.74	1.61
11	AB	480	DG	O3'-P	8.53	1.74	1.61
11	AB	791	DG	O3'-P	8.53	1.74	1.61
11	AB	1095	DG	O3'-P	8.53	1.74	1.61
11	AB	1165	DG	O3'-P	8.53	1.74	1.61
11	AB	1184	DT	O3'-P	8.53	1.74	1.61
11	AB	1883	DG	O3'-P	8.53	1.74	1.61
11	AB	4850	DG	O3'-P	8.53	1.74	1.61
11	AB	1182	DG	O3'-P	8.53	1.74	1.61
11	AB	2588	DG	O3'-P	8.53	1.74	1.61
23	BA	17	DG	O3'-P	8.53	1.74	1.61
11	AB	2836	DT	O3'-P	8.53	1.74	1.61
11	AB	3002	DT	O3'-P	8.53	1.74	1.61
11	AB	5530	DT	O3'-P	8.53	1.74	1.61
11	AB	3662	DT	O3'-P	8.53	1.74	1.61
11	AB	3717	DT	O3'-P	8.53	1.74	1.61
11	AB	3940	DT	O3'-P	8.53	1.74	1.61
11	AB	4161	DT	O3'-P	8.53	1.74	1.61
11	AB	4213	DG	O3'-P	8.53	1.74	1.61
11	AB	4508	DG	O3'-P	8.53	1.74	1.61
11	AB	4563	DA	O3'-P	8.53	1.74	1.61
11	AB	4716	DA	O3'-P	8.53	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4891	DG	O3'-P	8.53	1.74	1.61
11	AB	4990	DA	O3'-P	8.53	1.74	1.61
11	AB	5035	DG	O3'-P	8.53	1.74	1.61
171	P8	6	DT	O3'-P	8.53	1.74	1.61
11	AB	5917	DT	O3'-P	8.53	1.74	1.61
11	AB	6073	DA	O3'-P	8.53	1.74	1.61
11	AB	6409	DT	O3'-P	8.53	1.74	1.61
11	AB	6950	DA	O3'-P	8.53	1.74	1.61
43	D8	30	DT	O3'-P	8.53	1.74	1.61
49	E2	4	DG	O3'-P	8.53	1.74	1.61
54	E8	14	DT	O3'-P	8.53	1.74	1.61
73	G5	11	DA	O3'-P	8.53	1.74	1.61
91	HD	23	DA	O3'-P	8.53	1.74	1.61
92	I1	14	DG	O3'-P	8.53	1.74	1.61
100	IA	10	DA	O3'-P	8.53	1.74	1.61
156	O2	18	DG	O3'-P	8.53	1.74	1.61
170	P7	6	DT	O3'-P	8.53	1.74	1.61
171	P8	10	DT	O3'-P	8.53	1.74	1.61
178	Q5	2	DA	O3'-P	8.53	1.74	1.61
188	R7	2	DG	O3'-P	8.53	1.74	1.61
198	S8	32	DA	O3'-P	8.53	1.74	1.61
211	TD	41	DG	O3'-P	8.53	1.74	1.61
238	X9	13	DA	O3'-P	8.53	1.74	1.61
11	AB	948	DT	O3'-P	8.53	1.74	1.61
11	AB	1305	DT	O3'-P	8.53	1.74	1.61
11	AB	1521	DG	O3'-P	8.53	1.74	1.61
11	AB	1640	DG	O3'-P	8.53	1.74	1.61
11	AB	2465	DA	O3'-P	8.53	1.74	1.61
11	AB	3206	DA	O3'-P	8.53	1.74	1.61
11	AB	3897	DA	O3'-P	8.53	1.74	1.61
11	AB	3957	DA	O3'-P	8.53	1.74	1.61
30	C6	16	DG	O3'-P	8.53	1.74	1.61
108	J7	20	DG	O3'-P	8.53	1.74	1.61
11	AB	57	DT	O3'-P	8.53	1.74	1.61
11	AB	349	DA	O3'-P	8.53	1.74	1.61
11	AB	726	DG	O3'-P	8.53	1.74	1.61
11	AB	1122	DT	O3'-P	8.53	1.74	1.61
11	AB	2024	DT	O3'-P	8.53	1.74	1.61
11	AB	1498	DT	O3'-P	8.53	1.74	1.61
11	AB	2435	DG	O3'-P	8.53	1.74	1.61
11	AB	5445	DA	O3'-P	8.53	1.74	1.61
226	V9	29	DA	O3'-P	8.53	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2745	DA	O3'-P	8.53	1.74	1.61
11	AB	3442	DG	O3'-P	8.53	1.74	1.61
11	AB	3903	DT	O3'-P	8.53	1.74	1.61
11	AB	4027	DA	O3'-P	8.53	1.74	1.61
11	AB	4034	DA	O3'-P	8.53	1.74	1.61
11	AB	4267	DA	O3'-P	8.53	1.74	1.61
11	AB	4342	DA	O3'-P	8.53	1.74	1.61
11	AB	4704	DA	O3'-P	8.53	1.74	1.61
11	AB	5158	DT	O3'-P	8.53	1.74	1.61
11	AB	5213	DT	O3'-P	8.53	1.74	1.61
11	AB	5470	DT	O3'-P	8.53	1.74	1.61
11	AB	5630	DA	O3'-P	8.53	1.74	1.61
11	AB	5864	DG	O3'-P	8.53	1.74	1.61
11	AB	6363	DA	O3'-P	8.53	1.74	1.61
11	AB	6370	DA	O3'-P	8.53	1.74	1.61
11	AB	6391	DA	O3'-P	8.53	1.74	1.61
11	AB	6553	DA	O3'-P	8.53	1.74	1.61
11	AB	6885	DT	O3'-P	8.53	1.74	1.61
11	AB	6972	DA	O3'-P	8.53	1.74	1.61
13	AD	28	DG	O3'-P	8.53	1.74	1.61
14	B1	4	DT	O3'-P	8.53	1.74	1.61
71	G2	7	DT	O3'-P	8.53	1.74	1.61
62	F5	32	DT	O3'-P	8.53	1.74	1.61
72	G3	1	DT	O3'-P	8.53	1.74	1.61
82	H2	24	DA	O3'-P	8.53	1.74	1.61
95	I5	36	DG	O3'-P	8.53	1.74	1.61
103	J1	6	DA	O3'-P	8.53	1.74	1.61
109	J8	17	DT	O3'-P	8.53	1.74	1.61
117	K5	12	DT	O3'-P	8.53	1.74	1.61
131	L8	26	DG	O3'-P	8.53	1.74	1.61
144	MC	2	DA	O3'-P	8.53	1.74	1.61
156	O2	37	DA	O3'-P	8.53	1.74	1.61
156	O2	51	DA	O3'-P	8.53	1.74	1.61
170	P7	12	DG	O3'-P	8.53	1.74	1.61
164	OC	14	DG	O3'-P	8.53	1.74	1.61
178	Q5	41	DA	O3'-P	8.53	1.74	1.61
188	R7	19	DT	O3'-P	8.53	1.74	1.61
194	S2	10	DA	O3'-P	8.53	1.74	1.61
202	SD	25	DA	O3'-P	8.53	1.74	1.61
217	U9	21	DG	O3'-P	8.53	1.74	1.61
220	UD	12	DT	O3'-P	8.53	1.74	1.61
224	V7	11	DA	O3'-P	8.53	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2	DT	O3'-P	8.52	1.74	1.61
11	AB	274	DA	O3'-P	8.52	1.74	1.61
11	AB	478	DA	O3'-P	8.52	1.74	1.61
11	AB	2171	DG	O3'-P	8.52	1.74	1.61
11	AB	3010	DT	O3'-P	8.52	1.74	1.61
11	AB	4774	DA	O3'-P	8.52	1.74	1.61
11	AB	5900	DA	O3'-P	8.52	1.74	1.61
199	S9	14	DT	O3'-P	8.52	1.74	1.61
11	AB	678	DA	O3'-P	8.52	1.74	1.61
11	AB	738	DG	O3'-P	8.52	1.74	1.61
11	AB	1229	DT	O3'-P	8.52	1.74	1.61
11	AB	2238	DG	O3'-P	8.52	1.74	1.61
11	AB	4088	DG	O3'-P	8.52	1.74	1.61
11	AB	6936	DG	O3'-P	8.52	1.74	1.61
22	B9	19	DT	O3'-P	8.52	1.74	1.61
24	BC	22	DG	O3'-P	8.52	1.74	1.61
59	F1	6	DT	O3'-P	8.52	1.74	1.61
85	H6	16	DG	O3'-P	8.52	1.74	1.61
117	K5	43	DG	O3'-P	8.52	1.74	1.61
128	L5	2	DT	O3'-P	8.52	1.74	1.61
148	N5	29	DG	O3'-P	8.52	1.74	1.61
209	TA	14	DG	O3'-P	8.52	1.74	1.61
223	V5	22	DG	O3'-P	8.52	1.74	1.61
11	AB	1848	DG	O3'-P	8.52	1.74	1.61
11	AB	2397	DT	O3'-P	8.52	1.74	1.61
11	AB	3338	DA	O3'-P	8.52	1.74	1.61
11	AB	3694	DT	O3'-P	8.52	1.74	1.61
11	AB	3913	DG	O3'-P	8.52	1.74	1.61
11	AB	4004	DG	O3'-P	8.52	1.74	1.61
11	AB	4187	DG	O3'-P	8.52	1.74	1.61
11	AB	4254	DT	O3'-P	8.52	1.74	1.61
11	AB	4303	DG	O3'-P	8.52	1.74	1.61
11	AB	4941	DT	O3'-P	8.52	1.74	1.61
11	AB	5191	DG	O3'-P	8.52	1.74	1.61
11	AB	5892	DG	O3'-P	8.52	1.74	1.61
113	JD	12	DG	O3'-P	8.52	1.74	1.61
11	AB	4314	DG	O3'-P	8.52	1.74	1.61
11	AB	4517	DG	O3'-P	8.52	1.74	1.61
11	AB	6130	DG	O3'-P	8.52	1.74	1.61
11	AB	6646	DG	O3'-P	8.52	1.74	1.61
11	AB	6702	DA	O3'-P	8.52	1.74	1.61
11	AB	7177	DG	O3'-P	8.52	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	B7	7	DA	O3'-P	8.52	1.74	1.61
62	F5	6	DT	O3'-P	8.52	1.74	1.61
65	F8	5	DT	O3'-P	8.52	1.74	1.61
165	OD	43	DT	O3'-P	8.52	1.74	1.61
72	G3	12	DT	O3'-P	8.52	1.74	1.61
76	G8	13	DA	O3'-P	8.52	1.74	1.61
82	H2	17	DT	O3'-P	8.52	1.74	1.61
92	I1	7	DT	O3'-P	8.52	1.74	1.61
94	I3	20	DG	O3'-P	8.52	1.74	1.61
109	J8	25	DG	O3'-P	8.52	1.74	1.61
132	L9	11	DG	O3'-P	8.52	1.74	1.61
149	N6	6	DT	O3'-P	8.52	1.74	1.61
160	O7	28	DA	O3'-P	8.52	1.74	1.61
165	OD	15	DA	O3'-P	8.52	1.74	1.61
177	Q3	19	DG	O3'-P	8.52	1.74	1.61
196	S5	15	DA	O3'-P	8.52	1.74	1.61
203	T2	20	DA	O3'-P	8.52	1.74	1.61
213	U3	21	DT	O3'-P	8.52	1.74	1.61
215	U7	17	DT	O3'-P	8.52	1.74	1.61
231	W5	13	DG	O3'-P	8.52	1.74	1.61
1	A1	25	DA	O3'-P	8.52	1.74	1.61
1	A1	44	DA	O3'-P	8.52	1.74	1.61
5	A5	23	DG	O3'-P	8.52	1.74	1.61
1	A1	51	DT	O3'-P	8.52	1.74	1.61
9	A9	18	DG	O3'-P	8.52	1.74	1.61
11	AB	287	DT	O3'-P	8.52	1.74	1.61
11	AB	3039	DG	O3'-P	8.52	1.74	1.61
11	AB	4257	DA	O3'-P	8.52	1.74	1.61
119	K7	7	DT	O3'-P	8.52	1.74	1.61
197	S7	19	DT	O3'-P	8.52	1.74	1.61
207	T8	15	DA	O3'-P	8.52	1.74	1.61
11	AB	123	DG	O3'-P	8.52	1.74	1.61
11	AB	604	DT	O3'-P	8.52	1.74	1.61
11	AB	1464	DT	O3'-P	8.52	1.74	1.61
11	AB	3084	DT	O3'-P	8.52	1.74	1.61
11	AB	3373	DA	O3'-P	8.52	1.74	1.61
11	AB	4147	DT	O3'-P	8.52	1.74	1.61
11	AB	5412	DG	O3'-P	8.52	1.74	1.61
11	AB	4912	DA	O3'-P	8.52	1.74	1.61
11	AB	5528	DT	O3'-P	8.52	1.74	1.61
11	AB	5632	DT	O3'-P	8.52	1.74	1.61
11	AB	6313	DT	O3'-P	8.52	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6329	DA	O3'-P	8.52	1.74	1.61
31	C7	32	DA	O3'-P	8.52	1.74	1.61
35	CC	33	DA	O3'-P	8.52	1.74	1.61
47	DD	43	DA	O3'-P	8.52	1.74	1.61
55	E9	24	DT	O3'-P	8.52	1.74	1.61
75	G7	21	DA	O3'-P	8.52	1.74	1.61
82	H2	11	DT	O3'-P	8.52	1.74	1.61
82	H2	28	DT	O3'-P	8.52	1.74	1.61
92	I1	13	DG	O3'-P	8.52	1.74	1.61
131	L8	23	DA	O3'-P	8.52	1.74	1.61
95	I5	37	DG	O3'-P	8.52	1.74	1.61
149	N6	31	DT	O3'-P	8.52	1.74	1.61
156	O2	29	DG	O3'-P	8.52	1.74	1.61
156	O2	32	DA	O3'-P	8.52	1.74	1.61
208	T9	20	DT	O3'-P	8.52	1.74	1.61
209	TA	40	DT	O3'-P	8.52	1.74	1.61
217	U9	15	DT	O3'-P	8.52	1.74	1.61
11	AB	201	DT	O3'-P	8.52	1.74	1.61
11	AB	259	DA	O3'-P	8.52	1.74	1.61
11	AB	543	DA	O3'-P	8.52	1.74	1.61
11	AB	671	DT	O3'-P	8.52	1.74	1.61
11	AB	717	DT	O3'-P	8.52	1.74	1.61
11	AB	897	DG	O3'-P	8.52	1.74	1.61
11	AB	923	DG	O3'-P	8.52	1.74	1.61
11	AB	1036	DA	O3'-P	8.52	1.74	1.61
11	AB	1238	DA	O3'-P	8.52	1.74	1.61
11	AB	2412	DT	O3'-P	8.52	1.74	1.61
11	AB	3711	DT	O3'-P	8.52	1.74	1.61
11	AB	6987	DA	O3'-P	8.52	1.74	1.61
11	AB	1386	DT	O3'-P	8.52	1.74	1.61
11	AB	1629	DA	O3'-P	8.52	1.74	1.61
11	AB	1645	DT	O3'-P	8.52	1.74	1.61
11	AB	1690	DT	O3'-P	8.52	1.74	1.61
11	AB	1737	DT	O3'-P	8.52	1.74	1.61
11	AB	1785	DA	O3'-P	8.52	1.74	1.61
11	AB	2013	DG	O3'-P	8.52	1.74	1.61
11	AB	2387	DA	O3'-P	8.52	1.74	1.61
11	AB	4230	DT	O3'-P	8.52	1.74	1.61
11	AB	5281	DT	O3'-P	8.52	1.74	1.61
11	AB	5378	DT	O3'-P	8.52	1.74	1.61
18	B5	24	DA	O3'-P	8.52	1.74	1.61
11	AB	5339	DT	O3'-P	8.52	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5995	DA	O3'-P	8.52	1.74	1.61
11	AB	7105	DT	O3'-P	8.52	1.74	1.61
11	AB	7113	DA	O3'-P	8.52	1.74	1.61
49	E2	12	DT	O3'-P	8.52	1.74	1.61
89	HA	31	DT	O3'-P	8.52	1.74	1.61
175	PD	9	DA	O3'-P	8.52	1.74	1.61
37	D1	27	DT	O3'-P	8.52	1.74	1.61
41	D6	41	DT	O3'-P	8.52	1.74	1.61
59	F1	12	DT	O3'-P	8.52	1.74	1.61
64	F7	16	DT	O3'-P	8.52	1.74	1.61
77	G9	4	DA	O3'-P	8.52	1.74	1.61
84	H5	30	DT	O3'-P	8.52	1.74	1.61
90	HC	15	DG	O3'-P	8.52	1.74	1.61
91	HD	10	DT	O3'-P	8.52	1.74	1.61
109	J8	8	DA	O3'-P	8.52	1.74	1.61
118	K6	14	DT	O3'-P	8.52	1.74	1.61
122	KA	17	DT	O3'-P	8.52	1.74	1.61
131	L8	25	DG	O3'-P	8.52	1.74	1.61
149	N6	2	DG	O3'-P	8.52	1.74	1.61
204	T3	42	DA	O3'-P	8.52	1.74	1.61
11	AB	316	DG	O3'-P	8.51	1.74	1.61
11	AB	1524	DT	O3'-P	8.51	1.74	1.61
11	AB	3148	DT	O3'-P	8.51	1.74	1.61
11	AB	3589	DT	O3'-P	8.51	1.74	1.61
11	AB	4501	DT	O3'-P	8.51	1.74	1.61
11	AB	5545	DT	O3'-P	8.51	1.74	1.61
11	AB	7053	DT	O3'-P	8.51	1.74	1.61
11	AB	7057	DT	O3'-P	8.51	1.74	1.61
11	AB	2108	DT	O3'-P	8.51	1.74	1.61
11	AB	3112	DT	O3'-P	8.51	1.74	1.61
11	AB	4288	DA	O3'-P	8.51	1.74	1.61
11	AB	4587	DA	O3'-P	8.51	1.74	1.61
11	AB	6081	DT	O3'-P	8.51	1.74	1.61
37	D1	23	DA	O3'-P	8.51	1.74	1.61
106	J5	15	DT	O3'-P	8.51	1.74	1.61
11	AB	5010	DG	O3'-P	8.51	1.74	1.61
11	AB	5426	DA	O3'-P	8.51	1.74	1.61
61	F3	9	DG	O3'-P	8.51	1.74	1.61
93	I2	47	DT	O3'-P	8.51	1.74	1.61
95	I5	6	DT	O3'-P	8.51	1.74	1.61
104	J2	9	DA	O3'-P	8.51	1.74	1.61
130	L7	31	DT	O3'-P	8.51	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
148	N5	20	DA	O3'-P	8.51	1.74	1.61
180	Q8	10	DG	O3'-P	8.51	1.74	1.61
226	V9	20	DA	O3'-P	8.51	1.74	1.61
199	S9	10	DG	O3'-P	8.51	1.74	1.61
11	AB	306	DG	O3'-P	8.51	1.74	1.61
11	AB	1060	DG	O3'-P	8.51	1.74	1.61
11	AB	1080	DA	O3'-P	8.51	1.74	1.61
11	AB	2184	DG	O3'-P	8.51	1.74	1.61
11	AB	708	DA	O3'-P	8.51	1.74	1.61
11	AB	862	DG	O3'-P	8.51	1.74	1.61
11	AB	1092	DG	O3'-P	8.51	1.74	1.61
11	AB	1599	DT	O3'-P	8.51	1.74	1.61
11	AB	1467	DT	O3'-P	8.51	1.74	1.61
11	AB	1788	DG	O3'-P	8.51	1.74	1.61
11	AB	4040	DT	O3'-P	8.51	1.74	1.61
111	JA	8	DA	O3'-P	8.51	1.74	1.61
11	AB	1906	DG	O3'-P	8.51	1.74	1.61
11	AB	2822	DT	O3'-P	8.51	1.74	1.61
11	AB	4184	DG	O3'-P	8.51	1.74	1.61
11	AB	5134	DG	O3'-P	8.51	1.74	1.61
11	AB	5704	DG	O3'-P	8.51	1.74	1.61
11	AB	6138	DT	O3'-P	8.51	1.74	1.61
11	AB	6550	DT	O3'-P	8.51	1.74	1.61
41	D6	19	DG	O3'-P	8.51	1.74	1.61
11	AB	7148	DT	O3'-P	8.51	1.74	1.61
30	C6	22	DA	O3'-P	8.51	1.74	1.61
32	C8	18	DG	O3'-P	8.51	1.74	1.61
41	D6	5	DG	O3'-P	8.51	1.74	1.61
58	ED	35	DT	O3'-P	8.51	1.74	1.61
60	F2	12	DG	O3'-P	8.51	1.74	1.61
64	F7	21	DT	O3'-P	8.51	1.74	1.61
94	I3	57	DG	O3'-P	8.51	1.74	1.61
70	G1	13	DT	O3'-P	8.51	1.74	1.61
79	GC	1	DT	O3'-P	8.51	1.74	1.61
87	H8	23	DA	O3'-P	8.51	1.74	1.61
90	HC	22	DA	O3'-P	8.51	1.74	1.61
93	I2	12	DA	O3'-P	8.51	1.74	1.61
156	O2	4	DT	O3'-P	8.51	1.74	1.61
103	J1	22	DT	O3'-P	8.51	1.74	1.61
107	J6	40	DG	O3'-P	8.51	1.74	1.61
146	N2	22	DG	O3'-P	8.51	1.74	1.61
156	O2	47	DA	O3'-P	8.51	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
173	PA	27	DA	O3'-P	8.51	1.74	1.61
181	Q9	24	DA	O3'-P	8.51	1.74	1.61
230	W3	45	DT	O3'-P	8.51	1.74	1.61
233	W8	7	DT	O3'-P	8.51	1.74	1.61
10	AA	9	DA	O3'-P	8.51	1.74	1.61
11	AB	777	DT	O3'-P	8.51	1.74	1.61
11	AB	2447	DA	O3'-P	8.51	1.74	1.61
11	AB	3508	DT	O3'-P	8.51	1.74	1.61
11	AB	4152	DT	O3'-P	8.51	1.74	1.61
2	A2	25	DG	O3'-P	8.51	1.74	1.61
11	AB	5109	DA	O3'-P	8.51	1.74	1.61
11	AB	6689	DT	O3'-P	8.51	1.74	1.61
237	X7	14	DA	O3'-P	8.51	1.74	1.61
11	AB	390	DG	O3'-P	8.51	1.74	1.61
11	AB	1117	DA	O3'-P	8.51	1.74	1.61
11	AB	1149	DA	O3'-P	8.51	1.74	1.61
11	AB	2178	DG	O3'-P	8.51	1.74	1.61
11	AB	2672	DT	O3'-P	8.51	1.74	1.61
11	AB	6791	DT	O3'-P	8.51	1.74	1.61
11	AB	6846	DA	O3'-P	8.51	1.74	1.61
29	C5	22	DA	O3'-P	8.51	1.74	1.61
120	K8	1	DT	O3'-P	8.51	1.74	1.61
163	OA	17	DT	O3'-P	8.51	1.74	1.61
214	U5	25	DT	O3'-P	8.51	1.74	1.61
11	AB	1425	DT	O3'-P	8.51	1.74	1.61
11	AB	1477	DT	O3'-P	8.51	1.74	1.61
11	AB	1656	DT	O3'-P	8.51	1.74	1.61
11	AB	2390	DG	O3'-P	8.51	1.74	1.61
11	AB	3628	DG	O3'-P	8.51	1.74	1.61
11	AB	4051	DA	O3'-P	8.51	1.74	1.61
11	AB	4083	DG	O3'-P	8.51	1.74	1.61
11	AB	4590	DG	O3'-P	8.51	1.74	1.61
11	AB	6707	DT	O3'-P	8.51	1.74	1.61
36	CD	10	DA	O3'-P	8.51	1.74	1.61
79	GC	15	DT	O3'-P	8.51	1.74	1.61
122	KA	24	DA	O3'-P	8.51	1.74	1.61
160	O7	10	DA	O3'-P	8.51	1.74	1.61
178	Q5	11	DT	O3'-P	8.51	1.74	1.61
11	AB	4286	DT	O3'-P	8.51	1.74	1.61
11	AB	6106	DT	O3'-P	8.51	1.74	1.61
23	BA	7	DT	O3'-P	8.51	1.74	1.61
25	BD	8	DA	O3'-P	8.51	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	D3	12	DT	O3'-P	8.51	1.74	1.61
41	D6	12	DA	O3'-P	8.51	1.74	1.61
45	DA	6	DT	O3'-P	8.51	1.74	1.61
51	E5	25	DG	O3'-P	8.51	1.74	1.61
52	E6	36	DA	O3'-P	8.51	1.74	1.61
115	K2	9	DG	O3'-P	8.51	1.74	1.61
119	K7	16	DA	O3'-P	8.51	1.74	1.61
141	M8	8	DA	O3'-P	8.51	1.74	1.61
162	O9	15	DA	O3'-P	8.51	1.74	1.61
189	R8	36	DA	O3'-P	8.51	1.74	1.61
195	S3	1	DG	O3'-P	8.51	1.74	1.61
5	A5	29	DA	O3'-P	8.50	1.74	1.61
11	AB	504	DA	O3'-P	8.50	1.74	1.61
11	AB	4330	DA	O3'-P	8.50	1.74	1.61
11	AB	928	DG	O3'-P	8.50	1.74	1.61
11	AB	1338	DG	O3'-P	8.50	1.74	1.61
11	AB	1591	DG	O3'-P	8.50	1.74	1.61
11	AB	1654	DT	O3'-P	8.50	1.74	1.61
11	AB	2445	DT	O3'-P	8.50	1.74	1.61
11	AB	2520	DT	O3'-P	8.50	1.74	1.61
11	AB	3732	DT	O3'-P	8.50	1.74	1.61
11	AB	4173	DT	O3'-P	8.50	1.74	1.61
11	AB	2896	DA	O3'-P	8.50	1.74	1.61
11	AB	3829	DT	O3'-P	8.50	1.74	1.61
11	AB	4460	DT	O3'-P	8.50	1.74	1.61
11	AB	4581	DA	O3'-P	8.50	1.74	1.61
11	AB	4822	DG	O3'-P	8.50	1.74	1.61
11	AB	5094	DT	O3'-P	8.50	1.74	1.61
11	AB	6076	DT	O3'-P	8.50	1.74	1.61
11	AB	6880	DT	O3'-P	8.50	1.74	1.61
11	AB	7003	DG	O3'-P	8.50	1.74	1.61
11	AB	7190	DG	O3'-P	8.50	1.74	1.61
18	B5	3	DG	O3'-P	8.50	1.74	1.61
46	DC	16	DG	O3'-P	8.50	1.74	1.61
64	F7	28	DT	O3'-P	8.50	1.74	1.61
69	FD	33	DT	O3'-P	8.50	1.74	1.61
82	H2	7	DT	O3'-P	8.50	1.74	1.61
99	I9	15	DT	O3'-P	8.50	1.74	1.61
134	LC	16	DG	O3'-P	8.50	1.74	1.61
151	N8	20	DG	O3'-P	8.50	1.74	1.61
187	R5	15	DT	O3'-P	8.50	1.74	1.61
209	TA	20	DT	O3'-P	8.50	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
223	V5	24	DT	O3'-P	8.50	1.74	1.61
11	AB	661	DG	O3'-P	8.50	1.74	1.61
11	AB	852	DG	O3'-P	8.50	1.74	1.61
11	AB	1811	DG	O3'-P	8.50	1.73	1.61
11	AB	1813	DT	O3'-P	8.50	1.74	1.61
11	AB	3488	DA	O3'-P	8.50	1.74	1.61
11	AB	4816	DA	O3'-P	8.50	1.74	1.61
11	AB	5508	DT	O3'-P	8.50	1.74	1.61
11	AB	6168	DG	O3'-P	8.50	1.74	1.61
11	AB	6192	DT	O3'-P	8.50	1.74	1.61
11	AB	6687	DT	O3'-P	8.50	1.73	1.61
11	AB	6861	DT	O3'-P	8.50	1.73	1.61
70	G1	2	DA	O3'-P	8.50	1.74	1.61
190	R9	16	DT	O3'-P	8.50	1.74	1.61
210	TC	21	DA	O3'-P	8.50	1.73	1.61
230	W3	30	DT	O3'-P	8.50	1.74	1.61
11	AB	41	DG	O3'-P	8.50	1.73	1.61
11	AB	185	DT	O3'-P	8.50	1.73	1.61
11	AB	488	DA	O3'-P	8.50	1.73	1.61
11	AB	1099	DT	O3'-P	8.50	1.73	1.61
11	AB	2674	DG	O3'-P	8.50	1.73	1.61
11	AB	5062	DG	O3'-P	8.50	1.73	1.61
13	AD	17	DA	O3'-P	8.50	1.73	1.61
53	E7	11	DG	O3'-P	8.50	1.73	1.61
11	AB	2644	DA	O3'-P	8.50	1.73	1.61
11	AB	4480	DG	O3'-P	8.50	1.73	1.61
11	AB	4770	DT	O3'-P	8.50	1.73	1.61
11	AB	5047	DG	O3'-P	8.50	1.73	1.61
11	AB	5173	DT	O3'-P	8.50	1.73	1.61
38	D2	8	DA	O3'-P	8.50	1.73	1.61
11	AB	6271	DT	O3'-P	8.50	1.73	1.61
18	B5	11	DG	O3'-P	8.50	1.73	1.61
84	H5	28	DA	O3'-P	8.50	1.73	1.61
94	I3	51	DA	O3'-P	8.50	1.73	1.61
34	CA	18	DT	O3'-P	8.50	1.73	1.61
39	D3	7	DT	O3'-P	8.50	1.73	1.61
48	E1	15	DA	O3'-P	8.50	1.73	1.61
144	MC	18	DT	O3'-P	8.50	1.73	1.61
155	ND	4	DT	O3'-P	8.50	1.73	1.61
158	O5	25	DA	O3'-P	8.50	1.73	1.61
179	Q7	5	DT	O3'-P	8.50	1.73	1.61
216	U8	12	DA	O3'-P	8.50	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
145	MD	13	DG	O3'-P	8.49	1.73	1.61
5	A5	33	DT	O3'-P	8.49	1.73	1.61
7	A7	36	DT	O3'-P	8.49	1.73	1.61
11	AB	462	DA	O3'-P	8.49	1.73	1.61
11	AB	886	DG	O3'-P	8.49	1.73	1.61
11	AB	1146	DG	O3'-P	8.49	1.73	1.61
11	AB	2480	DT	O3'-P	8.49	1.73	1.61
11	AB	3345	DT	O3'-P	8.49	1.73	1.61
11	AB	4854	DG	O3'-P	8.49	1.73	1.61
11	AB	6406	DG	O3'-P	8.49	1.73	1.61
11	AB	6644	DT	O3'-P	8.49	1.73	1.61
30	C6	13	DT	O3'-P	8.49	1.73	1.61
41	D6	43	DA	O3'-P	8.49	1.73	1.61
48	E1	1	DT	O3'-P	8.49	1.73	1.61
69	FD	15	DA	O3'-P	8.49	1.73	1.61
161	O8	19	DA	O3'-P	8.49	1.73	1.61
167	P3	18	DA	O3'-P	8.49	1.73	1.61
11	AB	511	DT	O3'-P	8.49	1.73	1.61
11	AB	763	DA	O3'-P	8.49	1.73	1.61
11	AB	1181	DG	O3'-P	8.49	1.73	1.61
11	AB	1494	DG	O3'-P	8.49	1.73	1.61
11	AB	2259	DA	O3'-P	8.49	1.73	1.61
11	AB	2853	DT	O3'-P	8.49	1.73	1.61
11	AB	4435	DT	O3'-P	8.49	1.73	1.61
11	AB	6188	DG	O3'-P	8.49	1.73	1.61
11	AB	6215	DT	O3'-P	8.49	1.73	1.61
11	AB	6546	DT	O3'-P	8.49	1.73	1.61
11	AB	6938	DT	O3'-P	8.49	1.73	1.61
97	I7	30	DG	O3'-P	8.49	1.73	1.61
149	N6	45	DA	O3'-P	8.49	1.73	1.61
154	NC	22	DA	O3'-P	8.49	1.73	1.61
11	AB	197	DT	O3'-P	8.49	1.73	1.61
11	AB	3358	DA	O3'-P	8.49	1.73	1.61
11	AB	4339	DT	O3'-P	8.49	1.73	1.61
11	AB	4781	DA	O3'-P	8.49	1.73	1.61
11	AB	262	DT	O3'-P	8.49	1.73	1.61
11	AB	4930	DA	O3'-P	8.49	1.73	1.61
11	AB	6039	DT	O3'-P	8.49	1.73	1.61
94	I3	58	DG	O3'-P	8.49	1.73	1.61
177	Q3	17	DT	O3'-P	8.49	1.73	1.61
178	Q5	38	DG	O3'-P	8.49	1.73	1.61
191	RA	26	DG	O3'-P	8.49	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
192	RC	22	DT	O3'-P	8.49	1.73	1.61
206	T7	19	DA	O3'-P	8.49	1.73	1.61
7	A7	22	DT	O3'-P	8.49	1.73	1.61
11	AB	520	DT	O3'-P	8.49	1.73	1.61
11	AB	2914	DT	O3'-P	8.49	1.73	1.61
11	AB	5344	DA	O3'-P	8.49	1.73	1.61
11	AB	1953	DT	O3'-P	8.49	1.73	1.61
11	AB	3120	DT	O3'-P	8.49	1.73	1.61
11	AB	3436	DT	O3'-P	8.49	1.73	1.61
11	AB	6269	DG	O3'-P	8.49	1.73	1.61
11	AB	6465	DT	O3'-P	8.49	1.73	1.61
11	AB	6658	DT	O3'-P	8.49	1.73	1.61
29	C5	32	DG	O3'-P	8.49	1.73	1.61
128	L5	19	DA	O3'-P	8.49	1.73	1.61
14	B1	30	DA	O3'-P	8.49	1.73	1.61
93	I2	39	DT	O3'-P	8.49	1.73	1.61
192	RC	10	DG	O3'-P	8.49	1.73	1.61
223	V5	29	DA	O3'-P	8.49	1.73	1.61
6	A6	15	DT	O3'-P	8.48	1.73	1.61
11	AB	39	DT	O3'-P	8.48	1.73	1.61
7	A7	30	DA	O3'-P	8.48	1.73	1.61
11	AB	720	DT	O3'-P	8.48	1.73	1.61
11	AB	1419	DT	O3'-P	8.48	1.73	1.61
11	AB	1580	DT	O3'-P	8.48	1.73	1.61
11	AB	1742	DT	O3'-P	8.48	1.73	1.61
11	AB	2245	DT	O3'-P	8.48	1.73	1.61
11	AB	2982	DA	O3'-P	8.48	1.73	1.61
11	AB	3619	DA	O3'-P	8.48	1.73	1.61
159	O6	15	DT	O3'-P	8.48	1.73	1.61
11	AB	4059	DA	O3'-P	8.48	1.73	1.61
11	AB	4978	DT	O3'-P	8.48	1.73	1.61
11	AB	6432	DT	O3'-P	8.48	1.73	1.61
11	AB	6469	DA	O3'-P	8.48	1.73	1.61
18	B5	1	DT	O3'-P	8.48	1.73	1.61
204	T3	12	DT	O3'-P	8.48	1.73	1.61
79	GC	10	DA	O3'-P	8.48	1.73	1.61
114	K1	38	DA	O3'-P	8.48	1.73	1.61
121	K9	23	DA	O3'-P	8.48	1.73	1.61
147	N3	25	DG	O3'-P	8.48	1.73	1.61
153	NA	8	DT	O3'-P	8.48	1.73	1.61
226	V9	17	DT	O3'-P	8.48	1.73	1.61
230	W3	15	DA	O3'-P	8.48	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
238	X9	42	DA	O3'-P	8.48	1.73	1.61
11	AB	812	DT	O3'-P	8.48	1.73	1.61
11	AB	2165	DA	O3'-P	8.48	1.73	1.61
11	AB	2316	DT	O3'-P	8.48	1.73	1.61
11	AB	3974	DT	O3'-P	8.48	1.73	1.61
11	AB	2241	DA	O3'-P	8.48	1.73	1.61
11	AB	2649	DT	O3'-P	8.48	1.73	1.61
122	KA	30	DT	O3'-P	8.48	1.73	1.61
184	QD	6	DA	O3'-P	8.48	1.73	1.61
218	UA	13	DG	O3'-P	8.48	1.73	1.61
11	AB	356	DT	O3'-P	8.48	1.73	1.61
11	AB	943	DG	O3'-P	8.48	1.73	1.61
11	AB	1473	DT	O3'-P	8.48	1.73	1.61
11	AB	2250	DT	O3'-P	8.48	1.73	1.61
11	AB	4602	DG	O3'-P	8.48	1.73	1.61
11	AB	4672	DG	O3'-P	8.48	1.73	1.61
11	AB	5185	DT	O3'-P	8.48	1.73	1.61
93	I2	24	DG	O3'-P	8.48	1.73	1.61
11	AB	1484	DA	O3'-P	8.48	1.73	1.61
11	AB	3055	DT	O3'-P	8.48	1.73	1.61
11	AB	4394	DT	O3'-P	8.48	1.73	1.61
165	OD	38	DA	O3'-P	8.48	1.73	1.61
11	AB	4484	DG	O3'-P	8.48	1.73	1.61
11	AB	4499	DA	O3'-P	8.48	1.73	1.61
11	AB	5204	DG	O3'-P	8.48	1.73	1.61
11	AB	5534	DG	O3'-P	8.48	1.73	1.61
11	AB	5980	DA	O3'-P	8.48	1.73	1.61
11	AB	7020	DT	O3'-P	8.48	1.73	1.61
11	AB	7171	DT	O3'-P	8.48	1.73	1.61
26	C1	26	DA	O3'-P	8.48	1.73	1.61
58	ED	16	DA	O3'-P	8.48	1.73	1.61
73	G5	4	DT	O3'-P	8.48	1.73	1.61
112	JC	4	DG	O3'-P	8.48	1.73	1.61
130	L7	41	DA	O3'-P	8.48	1.73	1.61
11	AB	757	DT	O3'-P	8.47	1.73	1.61
11	AB	710	DT	O3'-P	8.47	1.73	1.61
11	AB	1197	DG	O3'-P	8.47	1.73	1.61
11	AB	1672	DT	O3'-P	8.47	1.73	1.61
11	AB	4182	DT	O3'-P	8.47	1.73	1.61
11	AB	5024	DG	O3'-P	8.47	1.73	1.61
19	B6	21	DT	O3'-P	8.47	1.73	1.61
33	C9	13	DG	O3'-P	8.47	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
159	O6	10	DG	O3'-P	8.47	1.73	1.61
204	T3	20	DG	O3'-P	8.47	1.73	1.61
11	AB	903	DT	O3'-P	8.47	1.73	1.61
11	AB	1265	DT	O3'-P	8.47	1.73	1.61
11	AB	1931	DT	O3'-P	8.47	1.73	1.61
11	AB	2635	DT	O3'-P	8.47	1.73	1.61
11	AB	6015	DA	O3'-P	8.47	1.73	1.61
11	AB	3911	DT	O3'-P	8.47	1.73	1.61
11	AB	3967	DT	O3'-P	8.47	1.73	1.61
11	AB	5032	DT	O3'-P	8.47	1.73	1.61
11	AB	5758	DT	O3'-P	8.47	1.73	1.61
11	AB	7140	DT	O3'-P	8.47	1.73	1.61
34	CA	14	DT	O3'-P	8.47	1.73	1.61
166	P2	23	DT	O3'-P	8.47	1.73	1.61
181	Q9	36	DT	O3'-P	8.47	1.73	1.61
11	AB	6	DT	O3'-P	8.47	1.73	1.61
11	AB	311	DT	O3'-P	8.47	1.73	1.61
11	AB	867	DG	O3'-P	8.47	1.73	1.61
11	AB	1585	DT	O3'-P	8.47	1.73	1.61
11	AB	2236	DT	O3'-P	8.47	1.73	1.61
11	AB	2743	DT	O3'-P	8.47	1.73	1.61
11	AB	2787	DT	O3'-P	8.47	1.73	1.61
11	AB	3109	DT	O3'-P	8.47	1.73	1.61
11	AB	3210	DT	O3'-P	8.47	1.73	1.61
11	AB	3271	DT	O3'-P	8.47	1.73	1.61
11	AB	6061	DT	O3'-P	8.47	1.73	1.61
21	B8	19	DT	O3'-P	8.47	1.73	1.61
56	EA	17	DT	O3'-P	8.47	1.73	1.61
145	MD	3	DT	O3'-P	8.47	1.73	1.61
11	AB	5197	DT	O3'-P	8.47	1.73	1.61
11	AB	6612	DT	O3'-P	8.47	1.73	1.61
11	AB	6839	DT	O3'-P	8.47	1.73	1.61
51	E5	9	DT	O3'-P	8.47	1.73	1.61
133	LA	14	DT	O3'-P	8.47	1.73	1.61
179	Q7	17	DT	O3'-P	8.47	1.73	1.61
195	S3	13	DT	O3'-P	8.47	1.73	1.61
208	T9	17	DT	O3'-P	8.47	1.73	1.61
11	AB	2534	DT	O3'-P	8.47	1.73	1.61
11	AB	2651	DT	O3'-P	8.47	1.73	1.61
11	AB	3555	DG	O3'-P	8.47	1.73	1.61
11	AB	5100	DT	O3'-P	8.47	1.73	1.61
150	N7	8	DT	O3'-P	8.47	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A1	30	DT	O3'-P	8.46	1.73	1.61
11	AB	918	DT	O3'-P	8.46	1.73	1.61
11	AB	1189	DT	O3'-P	8.46	1.73	1.61
149	N6	34	DA	O3'-P	8.46	1.73	1.61
228	VC	17	DT	O3'-P	8.46	1.73	1.61
11	AB	2528	DT	O3'-P	8.46	1.73	1.61
11	AB	3601	DT	O3'-P	8.46	1.73	1.61
11	AB	4505	DT	O3'-P	8.46	1.73	1.61
11	AB	6914	DT	O3'-P	8.46	1.73	1.61
126	L2	38	DA	O3'-P	8.46	1.73	1.61
11	AB	1108	DT	O3'-P	8.46	1.73	1.61
11	AB	2769	DT	O3'-P	8.46	1.73	1.61
11	AB	2875	DT	O3'-P	8.46	1.73	1.61
11	AB	4641	DT	O3'-P	8.46	1.73	1.61
11	AB	7044	DT	O3'-P	8.46	1.73	1.61
204	T3	27	DT	O3'-P	8.46	1.73	1.61
11	AB	5404	DT	O3'-P	8.46	1.73	1.61
11	AB	6711	DT	O3'-P	8.46	1.73	1.61
84	H5	37	DT	O3'-P	8.46	1.73	1.61
93	I2	4	DT	O3'-P	8.46	1.73	1.61
98	I8	20	DT	O3'-P	8.46	1.73	1.61
178	Q5	21	DT	O3'-P	8.46	1.73	1.61
97	I7	19	DA	O3'-P	8.46	1.73	1.61
108	J7	27	DT	O3'-P	8.46	1.73	1.61
130	L7	20	DT	O3'-P	8.46	1.73	1.61
140	M7	1	DT	O3'-P	8.46	1.73	1.61
142	M9	17	DT	O3'-P	8.46	1.73	1.61
171	P8	26	DT	O3'-P	8.46	1.73	1.61
191	RA	24	DT	O3'-P	8.46	1.73	1.61
178	Q5	36	DT	O3'-P	8.46	1.73	1.61
11	AB	1352	DT	O3'-P	8.46	1.73	1.61
11	AB	2058	DT	O3'-P	8.46	1.73	1.61
11	AB	2318	DT	O3'-P	8.46	1.73	1.61
11	AB	2657	DT	O3'-P	8.46	1.73	1.61
11	AB	3253	DT	O3'-P	8.46	1.73	1.61
11	AB	3920	DT	O3'-P	8.46	1.73	1.61
11	AB	4192	DT	O3'-P	8.46	1.73	1.61
11	AB	4691	DT	O3'-P	8.46	1.73	1.61
11	AB	4918	DT	O3'-P	8.46	1.73	1.61
11	AB	5105	DT	O3'-P	8.46	1.73	1.61
11	AB	5489	DA	O3'-P	8.46	1.73	1.61
101	IC	16	DT	O3'-P	8.46	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
184	QD	22	DT	O3'-P	8.46	1.73	1.61
11	AB	6334	DT	O3'-P	8.46	1.73	1.61
11	AB	7116	DT	O3'-P	8.46	1.73	1.61
14	B1	40	DT	O3'-P	8.46	1.73	1.61
98	I8	11	DT	O3'-P	8.46	1.73	1.61
121	K9	6	DT	O3'-P	8.46	1.73	1.61
166	P2	19	DT	O3'-P	8.46	1.73	1.61
11	AB	1292	DA	O3'-P	8.46	1.73	1.61
11	AB	2739	DT	O3'-P	8.46	1.73	1.61
11	AB	1625	DT	O3'-P	8.45	1.73	1.61
11	AB	1925	DT	O3'-P	8.46	1.73	1.61
11	AB	2646	DT	O3'-P	8.46	1.73	1.61
11	AB	4828	DT	O3'-P	8.46	1.73	1.61
11	AB	6201	DT	O3'-P	8.46	1.73	1.61
11	AB	6277	DT	O3'-P	8.46	1.73	1.61
52	E6	25	DT	O3'-P	8.46	1.73	1.61
147	N3	33	DT	O3'-P	8.46	1.73	1.61
161	O8	42	DT	O3'-P	8.46	1.73	1.61
220	UD	17	DT	O3'-P	8.46	1.73	1.61
11	AB	2453	DT	O3'-P	8.45	1.73	1.61
11	AB	3411	DT	O3'-P	8.45	1.73	1.61
14	B1	37	DT	O3'-P	8.45	1.73	1.61
21	B8	10	DT	O3'-P	8.45	1.73	1.61
49	E2	18	DT	O3'-P	8.45	1.73	1.61
11	AB	116	DT	O3'-P	8.45	1.73	1.61
11	AB	145	DT	O3'-P	8.45	1.73	1.61
11	AB	166	DT	O3'-P	8.45	1.73	1.61
11	AB	518	DT	O3'-P	8.45	1.73	1.61
11	AB	533	DT	O3'-P	8.45	1.73	1.61
11	AB	587	DT	O3'-P	8.45	1.73	1.61
11	AB	3748	DT	O3'-P	8.45	1.73	1.61
11	AB	6382	DT	O3'-P	8.45	1.73	1.61
11	AB	6851	DT	O3'-P	8.45	1.73	1.61
11	AB	2141	DT	O3'-P	8.45	1.73	1.61
11	AB	2252	DT	O3'-P	8.45	1.73	1.61
11	AB	4166	DT	O3'-P	8.45	1.73	1.61
11	AB	4171	DT	O3'-P	8.45	1.73	1.61
11	AB	4346	DT	O3'-P	8.45	1.73	1.61
11	AB	6052	DT	O3'-P	8.45	1.73	1.61
11	AB	6283	DT	O3'-P	8.45	1.73	1.61
11	AB	6532	DT	O3'-P	8.45	1.73	1.61
167	P3	15	DT	O3'-P	8.45	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
179	Q7	11	DT	O3'-P	8.45	1.73	1.61
11	AB	4447	DT	O3'-P	8.45	1.73	1.61
11	AB	6111	DT	O3'-P	8.45	1.73	1.61
11	AB	6144	DT	O3'-P	8.45	1.73	1.61
11	AB	6195	DT	O3'-P	8.45	1.73	1.61
11	AB	7167	DT	O3'-P	8.45	1.73	1.61
31	C7	16	DT	O3'-P	8.45	1.73	1.61
149	N6	38	DT	O3'-P	8.45	1.73	1.61
161	O8	49	DT	O3'-P	8.45	1.73	1.61
180	Q8	15	DT	O3'-P	8.45	1.73	1.61
208	T9	14	DT	O3'-P	8.45	1.73	1.61
232	W7	24	DT	O3'-P	8.45	1.73	1.61
11	AB	772	DT	O3'-P	8.45	1.73	1.61
11	AB	876	DT	O3'-P	8.45	1.73	1.61
11	AB	1173	DT	O3'-P	8.45	1.73	1.61
11	AB	1206	DT	O3'-P	8.45	1.73	1.61
11	AB	1435	DT	O3'-P	8.45	1.73	1.61
11	AB	1491	DT	O3'-P	8.45	1.73	1.61
11	AB	1871	DT	O3'-P	8.45	1.73	1.61
11	AB	1903	DT	O3'-P	8.45	1.73	1.61
11	AB	4210	DT	O3'-P	8.45	1.73	1.61
11	AB	5676	DT	O3'-P	8.45	1.73	1.61
11	AB	1636	DT	O3'-P	8.45	1.73	1.61
11	AB	1912	DT	O3'-P	8.45	1.73	1.61
11	AB	2880	DT	O3'-P	8.45	1.73	1.61
11	AB	5248	DG	O3'-P	8.45	1.73	1.61
11	AB	6275	DT	O3'-P	8.45	1.73	1.61
23	BA	14	DT	O3'-P	8.45	1.73	1.61
33	C9	18	DT	O3'-P	8.45	1.73	1.61
57	EC	1	DT	O3'-P	8.45	1.73	1.61
62	F5	13	DT	O3'-P	8.45	1.73	1.61
83	H3	14	DT	O3'-P	8.45	1.73	1.61
205	T5	19	DT	O3'-P	8.45	1.73	1.61
235	WD	21	DT	O3'-P	8.45	1.73	1.61
11	AB	4985	DT	O3'-P	8.45	1.73	1.61
202	SD	22	DT	O3'-P	8.45	1.73	1.61
11	AB	1333	DT	O3'-P	8.45	1.73	1.61
11	AB	1615	DT	O3'-P	8.45	1.73	1.61
11	AB	1886	DT	O3'-P	8.45	1.73	1.61
11	AB	2026	DT	O3'-P	8.45	1.73	1.61
11	AB	2461	DT	O3'-P	8.45	1.73	1.61
11	AB	2553	DT	O3'-P	8.45	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2663	DT	O3'-P	8.45	1.73	1.61
11	AB	4198	DT	O3'-P	8.45	1.73	1.61
26	C1	24	DT	O3'-P	8.45	1.73	1.61
145	MD	26	DT	O3'-P	8.45	1.73	1.61
11	AB	3262	DT	O3'-P	8.44	1.73	1.61
11	AB	6358	DT	O3'-P	8.44	1.73	1.61
11	AB	6910	DT	O3'-P	8.45	1.73	1.61
11	AB	7119	DT	O3'-P	8.45	1.73	1.61
11	AB	7137	DT	O3'-P	8.45	1.73	1.61
72	G3	18	DT	O3'-P	8.45	1.73	1.61
75	G7	14	DT	O3'-P	8.45	1.73	1.61
100	IA	7	DT	O3'-P	8.45	1.73	1.61
117	K5	45	DT	O3'-P	8.45	1.73	1.61
158	O5	47	DT	O3'-P	8.45	1.73	1.61
167	P3	34	DT	O3'-P	8.45	1.73	1.61
218	UA	5	DG	O3'-P	8.45	1.73	1.61
11	AB	1447	DT	O3'-P	8.44	1.73	1.61
11	AB	1661	DT	O3'-P	8.44	1.73	1.61
11	AB	1894	DT	O3'-P	8.44	1.73	1.61
11	AB	3063	DT	O3'-P	8.44	1.73	1.61
11	AB	3236	DT	O3'-P	8.44	1.73	1.61
11	AB	4012	DT	O3'-P	8.44	1.73	1.61
11	AB	6156	DT	O3'-P	8.44	1.73	1.61
11	AB	6785	DT	O3'-P	8.44	1.73	1.61
11	AB	6854	DT	O3'-P	8.44	1.73	1.61
11	AB	6979	DT	O3'-P	8.44	1.73	1.61
194	S2	21	DT	O3'-P	8.44	1.73	1.61
11	AB	80	DT	O3'-P	8.44	1.73	1.61
11	AB	888	DT	O3'-P	8.44	1.73	1.61
11	AB	4396	DT	O3'-P	8.44	1.73	1.61
11	AB	4595	DT	O3'-P	8.44	1.73	1.61
11	AB	4825	DT	O3'-P	8.44	1.73	1.61
107	J6	26	DT	O3'-P	8.44	1.73	1.61
218	UA	9	DT	O3'-P	8.44	1.73	1.61
11	AB	6902	DT	O3'-P	8.44	1.73	1.61
36	CD	8	DT	O3'-P	8.44	1.73	1.61
211	TD	29	DT	O3'-P	8.44	1.73	1.61
226	V9	12	DT	O3'-P	8.44	1.73	1.61
232	W7	16	DT	O3'-P	8.44	1.73	1.61
232	W7	21	DT	O3'-P	8.44	1.73	1.61
238	X9	11	DT	O3'-P	8.44	1.73	1.61
11	AB	1597	DT	O3'-P	8.44	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
75	G7	9	DA	O3'-P	8.44	1.73	1.61
138	M5	29	DT	O3'-P	8.44	1.73	1.61
127	L3	10	DT	O3'-P	8.44	1.73	1.61
220	UD	5	DT	O3'-P	8.44	1.73	1.61
11	AB	494	DT	O3'-P	8.43	1.73	1.61
11	AB	3075	DT	O3'-P	8.43	1.73	1.61
135	LD	16	DT	O3'-P	8.43	1.73	1.61
140	M7	5	DT	O3'-P	8.43	1.73	1.61
7	A7	40	DT	O3'-P	8.43	1.73	1.61
11	AB	1601	DT	O3'-P	8.43	1.73	1.61
11	AB	3268	DT	O3'-P	8.43	1.73	1.61
11	AB	4204	DT	O3'-P	8.43	1.73	1.61
11	AB	4367	DT	O3'-P	8.43	1.73	1.61
11	AB	4529	DT	O3'-P	8.43	1.73	1.61
94	I3	13	DT	O3'-P	8.43	1.73	1.61
145	MD	21	DT	O3'-P	8.43	1.73	1.61
209	TA	3	DT	O3'-P	8.43	1.73	1.61
11	AB	33	DT	O3'-P	8.43	1.73	1.61
11	AB	4405	DT	O3'-P	8.43	1.73	1.61
11	AB	1195	DA	O3'-P	8.43	1.73	1.61
11	AB	3640	DT	O3'-P	8.43	1.73	1.61
11	AB	2151	DT	O3'-P	8.43	1.73	1.61
11	AB	3962	DT	O3'-P	8.43	1.73	1.61
11	AB	4158	DT	O3'-P	8.43	1.73	1.61
161	O8	33	DA	O3'-P	8.43	1.73	1.61
161	O8	37	DT	O3'-P	8.43	1.73	1.61
11	AB	6525	DT	O3'-P	8.43	1.73	1.61
193	RD	18	DT	O3'-P	8.43	1.73	1.61
187	R5	40	DT	O3'-P	8.42	1.73	1.61
204	T3	40	DT	O3'-P	8.42	1.73	1.61
11	AB	4043	DT	O3'-P	8.42	1.73	1.61
11	AB	5097	DT	O3'-P	8.42	1.73	1.61
11	AB	5662	DT	O3'-P	8.42	1.73	1.61
234	W9	9	DT	O3'-P	8.42	1.73	1.61
11	AB	6394	DT	O3'-P	8.42	1.73	1.61
51	E5	5	DT	O3'-P	8.42	1.73	1.61
11	AB	3499	DT	O3'-P	8.42	1.73	1.61
112	JC	9	DA	O3'-P	8.42	1.73	1.61
11	AB	4835	DT	O3'-P	8.41	1.73	1.61
11	AB	5477	DT	O3'-P	8.41	1.73	1.61
11	AB	5119	DG	O3'-P	8.41	1.73	1.61
11	AB	6534	DT	O3'-P	8.41	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	51	DT	O3'-P	8.41	1.73	1.61
11	AB	3792	DT	O3'-P	8.41	1.73	1.61
11	AB	6977	DT	O3'-P	8.41	1.73	1.61
11	AB	3630	DT	O3'-P	8.40	1.73	1.61
11	AB	2935	DT	O3'-P	8.40	1.73	1.61
100	IA	20	DT	O3'-P	8.40	1.73	1.61
149	N6	41	DT	O3'-P	8.40	1.73	1.61
11	AB	2905	DT	O3'-P	8.40	1.73	1.61
11	AB	2937	DT	O3'-P	8.40	1.73	1.61
11	AB	4695	DT	O3'-P	8.40	1.73	1.61
11	AB	5479	DT	O3'-P	8.40	1.73	1.61
11	AB	6604	DT	O3'-P	8.40	1.73	1.61
62	F5	42	DT	O3'-P	8.40	1.73	1.61
11	AB	2135	DT	O3'-P	8.40	1.73	1.61
11	AB	3350	DT	O3'-P	8.40	1.73	1.61
11	AB	4503	DT	O3'-P	8.39	1.73	1.61
11	AB	1276	DT	O3'-P	8.39	1.73	1.61
11	AB	2276	DT	O3'-P	8.39	1.73	1.61
11	AB	4811	DT	O3'-P	8.38	1.73	1.61
176	Q2	10	DT	O3'-P	8.38	1.73	1.61
11	AB	470	DT	O3'-P	8.38	1.73	1.61
11	AB	6353	DT	O3'-P	8.38	1.73	1.61
11	AB	4218	DT	O3'-P	8.38	1.73	1.61
58	ED	10	DT	O3'-P	8.38	1.73	1.61
11	AB	4646	DA	O3'-P	8.38	1.73	1.61
11	AB	5565	DT	O3'-P	8.38	1.73	1.61
11	AB	5959	DT	O3'-P	8.38	1.73	1.61
189	R8	34	DT	O3'-P	8.38	1.73	1.61
11	AB	1342	DT	O3'-P	8.37	1.73	1.61
64	F7	6	DT	O3'-P	8.37	1.73	1.61
11	AB	5944	DT	O3'-P	8.37	1.73	1.61
158	O5	40	DT	O3'-P	8.37	1.73	1.61
11	AB	7130	DT	O3'-P	8.37	1.73	1.61
138	M5	12	DT	O3'-P	8.36	1.73	1.61
11	AB	5066	DG	O3'-P	8.29	1.73	1.61
17	B4	14	DG	O3'-P	8.27	1.73	1.61
18	B5	15	DG	O3'-P	8.27	1.73	1.61
150	N7	20	DG	O3'-P	8.27	1.73	1.61
217	U9	24	DG	O3'-P	8.27	1.73	1.61
11	AB	2592	DG	O3'-P	8.26	1.73	1.61
137	M3	13	DG	O3'-P	8.26	1.73	1.61
150	N7	6	DG	O3'-P	8.26	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
61	F3	23	DG	O3'-P	8.25	1.73	1.61
148	N5	5	DG	O3'-P	8.25	1.73	1.61
11	AB	936	DG	O3'-P	8.24	1.73	1.61
11	AB	6813	DG	O3'-P	8.24	1.73	1.61
103	J1	9	DG	O3'-P	8.24	1.73	1.61
138	M5	6	DG	O3'-P	8.24	1.73	1.61
233	W8	21	DG	O3'-P	8.24	1.73	1.61
53	E7	13	DG	O3'-P	8.24	1.73	1.61
220	UD	7	DG	O3'-P	8.24	1.73	1.61
12	AC	5	DG	O3'-P	8.23	1.73	1.61
11	AB	582	DG	O3'-P	8.23	1.73	1.61
206	T7	15	DG	O3'-P	8.23	1.73	1.61
82	H2	14	DG	O3'-P	8.22	1.73	1.61
125	L1	50	DG	O3'-P	8.22	1.73	1.61
67	FA	32	DG	O3'-P	8.22	1.73	1.61
49	E2	28	DG	O3'-P	8.22	1.73	1.61
77	G9	8	DG	O3'-P	8.22	1.73	1.61
111	JA	4	DG	O3'-P	8.22	1.73	1.61
122	KA	33	DG	O3'-P	8.22	1.73	1.61
57	EC	21	DG	O3'-P	8.22	1.73	1.61
150	N7	3	DG	O3'-P	8.22	1.73	1.61
236	X5	19	DG	O3'-P	8.22	1.73	1.61
11	AB	2091	DG	O3'-P	8.21	1.73	1.61
11	AB	6229	DG	O3'-P	8.22	1.73	1.61
11	AB	2337	DG	O3'-P	8.21	1.73	1.61
11	AB	4233	DG	O3'-P	8.21	1.73	1.61
11	AB	4280	DG	O3'-P	8.21	1.73	1.61
28	C3	24	DG	O3'-P	8.21	1.73	1.61
104	J2	16	DG	O3'-P	8.21	1.73	1.61
227	VA	5	DG	O3'-P	8.21	1.73	1.61
11	AB	735	DG	O3'-P	8.21	1.73	1.61
11	AB	1260	DG	O3'-P	8.21	1.73	1.61
11	AB	3175	DG	O3'-P	8.21	1.73	1.61
11	AB	972	DG	O3'-P	8.21	1.73	1.61
7	A7	8	DG	O3'-P	8.21	1.73	1.61
11	AB	3691	DG	O3'-P	8.21	1.73	1.61
86	H7	11	DG	O3'-P	8.21	1.73	1.61
198	S8	29	DG	O3'-P	8.21	1.73	1.61
229	VD	8	DG	O3'-P	8.21	1.73	1.61
3	A3	14	DG	O3'-P	8.21	1.73	1.61
11	AB	1998	DG	O3'-P	8.21	1.73	1.61
11	AB	5072	DG	O3'-P	8.21	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
91	HD	22	DG	O3'-P	8.21	1.73	1.61
4	A4	8	DG	O3'-P	8.20	1.73	1.61
41	D6	1	DG	O3'-P	8.21	1.73	1.61
60	F2	27	DG	O3'-P	8.20	1.73	1.61
107	J6	15	DG	O3'-P	8.21	1.73	1.61
130	L7	36	DG	O3'-P	8.21	1.73	1.61
139	M6	13	DG	O3'-P	8.20	1.73	1.61
228	VC	33	DG	O3'-P	8.20	1.73	1.61
11	AB	1068	DG	O3'-P	8.20	1.73	1.61
11	AB	6177	DG	O3'-P	8.20	1.73	1.61
11	AB	5441	DG	O3'-P	8.20	1.73	1.61
81	H1	6	DG	O3'-P	8.20	1.73	1.61
175	PD	21	DG	O3'-P	8.20	1.73	1.61
191	RA	7	DG	O3'-P	8.20	1.73	1.61
11	AB	4431	DG	O3'-P	8.20	1.73	1.61
206	T7	40	DG	O3'-P	8.20	1.73	1.61
11	AB	1016	DG	O3'-P	8.20	1.73	1.61
11	AB	1944	DG	O3'-P	8.19	1.73	1.61
11	AB	3289	DG	O3'-P	8.20	1.73	1.61
11	AB	6750	DG	O3'-P	8.19	1.73	1.61
11	AB	7202	DG	O3'-P	8.19	1.73	1.61
16	B3	6	DG	O3'-P	8.19	1.73	1.61
152	N9	43	DG	O3'-P	8.20	1.73	1.61
11	AB	450	DG	O3'-P	8.19	1.73	1.61
11	AB	1317	DG	O3'-P	8.19	1.73	1.61
11	AB	2615	DG	O3'-P	8.19	1.73	1.61
11	AB	1808	DG	O3'-P	8.19	1.73	1.61
11	AB	1829	DG	O3'-P	8.19	1.73	1.61
11	AB	3334	DG	O3'-P	8.19	1.73	1.61
11	AB	6304	DG	O3'-P	8.19	1.73	1.61
105	J3	33	DG	O3'-P	8.19	1.73	1.61
162	O9	5	DG	O3'-P	8.19	1.73	1.61
47	DD	25	DG	O3'-P	8.19	1.73	1.61
94	I3	50	DG	O3'-P	8.19	1.73	1.61
14	B1	9	DG	O3'-P	8.19	1.73	1.61
24	BC	28	DG	O3'-P	8.19	1.73	1.61
73	G5	8	DG	O3'-P	8.19	1.73	1.61
78	GA	13	DG	O3'-P	8.19	1.73	1.61
93	I2	15	DG	O3'-P	8.19	1.73	1.61
129	L6	25	DG	O3'-P	8.19	1.73	1.61
142	M9	1	DG	O3'-P	8.19	1.73	1.61
202	SD	16	DG	O3'-P	8.19	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1050	DG	O3'-P	8.19	1.73	1.61
11	AB	5012	DG	O3'-P	8.19	1.73	1.61
29	C5	35	DG	O3'-P	8.19	1.73	1.61
11	AB	1299	DG	O3'-P	8.19	1.73	1.61
11	AB	1531	DG	O3'-P	8.19	1.73	1.61
45	DA	22	DG	O3'-P	8.19	1.73	1.61
55	E9	13	DG	O3'-P	8.19	1.73	1.61
99	I9	29	DG	O3'-P	8.19	1.73	1.61
117	K5	17	DG	O3'-P	8.19	1.73	1.61
11	AB	579	DG	O3'-P	8.18	1.73	1.61
11	AB	5399	DG	O3'-P	8.18	1.73	1.61
70	G1	8	DG	O3'-P	8.18	1.73	1.61
11	AB	2360	DG	O3'-P	8.18	1.73	1.61
11	AB	3130	DG	O3'-P	8.18	1.73	1.61
11	AB	5815	DG	O3'-P	8.18	1.73	1.61
106	J5	12	DG	O3'-P	8.18	1.73	1.61
11	AB	5087	DG	O3'-P	8.18	1.73	1.61
30	C6	41	DG	O3'-P	8.18	1.73	1.61
151	N8	11	DG	O3'-P	8.18	1.73	1.61
152	N9	47	DG	O3'-P	8.18	1.73	1.61
66	F9	5	DG	O3'-P	8.18	1.73	1.61
168	P5	7	DG	O3'-P	8.18	1.73	1.61
11	AB	4438	DG	O3'-P	8.18	1.73	1.61
11	AB	7193	DG	O3'-P	8.18	1.73	1.61
43	D8	33	DG	O3'-P	8.18	1.73	1.61
89	HA	20	DG	O3'-P	8.18	1.73	1.61
119	K7	35	DG	O3'-P	8.18	1.73	1.61
11	AB	435	DG	O3'-P	8.18	1.73	1.61
11	AB	681	DG	O3'-P	8.18	1.73	1.61
11	AB	4271	DG	O3'-P	8.18	1.73	1.61
11	AB	6810	DG	O3'-P	8.18	1.73	1.61
13	AD	26	DG	O3'-P	8.18	1.73	1.61
66	F9	19	DG	O3'-P	8.18	1.73	1.61
147	N3	2	DG	O3'-P	8.18	1.73	1.61
165	OD	35	DG	O3'-P	8.18	1.73	1.61
182	QA	2	DG	O3'-P	8.18	1.73	1.61
212	U2	13	DG	O3'-P	8.18	1.73	1.61
11	AB	1936	DG	O3'-P	8.18	1.73	1.61
11	AB	2028	DG	O3'-P	8.18	1.73	1.61
11	AB	2510	DG	O3'-P	8.18	1.73	1.61
11	AB	2793	DG	O3'-P	8.18	1.73	1.61
11	AB	6595	DG	O3'-P	8.18	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	243	DG	O3'-P	8.18	1.73	1.61
11	AB	5304	DG	O3'-P	8.18	1.73	1.61
11	AB	6540	DG	O3'-P	8.18	1.73	1.61
88	H9	23	DG	O3'-P	8.18	1.73	1.61
104	J2	13	DG	O3'-P	8.18	1.73	1.61
151	N8	2	DG	O3'-P	8.18	1.73	1.61
11	AB	420	DG	O3'-P	8.17	1.73	1.61
11	AB	978	DG	O3'-P	8.17	1.73	1.61
11	AB	2986	DG	O3'-P	8.17	1.73	1.61
11	AB	5005	DG	O3'-P	8.17	1.73	1.61
94	I3	33	DG	O3'-P	8.17	1.73	1.61
234	W9	16	DG	O3'-P	8.17	1.73	1.61
238	X9	20	DG	O3'-P	8.17	1.73	1.61
79	GC	5	DG	O3'-P	8.17	1.73	1.61
156	O2	26	DG	O3'-P	8.17	1.73	1.61
4	A4	23	DG	O3'-P	8.17	1.73	1.61
11	AB	399	DG	O3'-P	8.17	1.73	1.61
11	AB	1989	DG	O3'-P	8.17	1.73	1.61
11	AB	2486	DG	O3'-P	8.17	1.73	1.61
11	AB	2489	DG	O3'-P	8.17	1.73	1.61
11	AB	3896	DG	O3'-P	8.17	1.73	1.61
49	E2	7	DG	O3'-P	8.17	1.73	1.61
93	I2	19	DG	O3'-P	8.17	1.73	1.61
11	AB	4009	DG	O3'-P	8.17	1.73	1.61
11	AB	4376	DG	O3'-P	8.17	1.73	1.61
11	AB	6262	DG	O3'-P	8.17	1.73	1.61
11	AB	6949	DG	O3'-P	8.17	1.73	1.61
12	AC	20	DG	O3'-P	8.17	1.73	1.61
16	B3	12	DG	O3'-P	8.17	1.73	1.61
17	B4	16	DG	O3'-P	8.17	1.73	1.61
137	M3	34	DG	O3'-P	8.17	1.73	1.61
138	M5	16	DG	O3'-P	8.17	1.73	1.61
206	T7	55	DG	O3'-P	8.17	1.73	1.61
222	V3	21	DG	O3'-P	8.17	1.73	1.61
235	WD	5	DG	O3'-P	8.17	1.73	1.61
11	AB	82	DG	O3'-P	8.17	1.73	1.61
11	AB	2031	DG	O3'-P	8.17	1.73	1.61
11	AB	2295	DG	O3'-P	8.17	1.73	1.61
11	AB	3946	DG	O3'-P	8.17	1.73	1.61
11	AB	4358	DG	O3'-P	8.17	1.73	1.61
11	AB	6310	DG	O3'-P	8.17	1.73	1.61
98	I8	35	DG	O3'-P	8.17	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
113	JD	26	DG	O3'-P	8.17	1.73	1.61
156	O2	40	DG	O3'-P	8.17	1.73	1.61
11	AB	1836	DG	O3'-P	8.16	1.73	1.61
11	AB	6800	DG	O3'-P	8.16	1.73	1.61
32	C8	15	DG	O3'-P	8.16	1.73	1.61
160	O7	36	DG	O3'-P	8.16	1.73	1.61
11	AB	789	DG	O3'-P	8.16	1.73	1.61
11	AB	3325	DG	O3'-P	8.16	1.73	1.61
11	AB	5806	DG	O3'-P	8.16	1.73	1.61
11	AB	7174	DG	O3'-P	8.16	1.73	1.61
23	BA	30	DG	O3'-P	8.16	1.73	1.61
58	ED	19	DG	O3'-P	8.16	1.73	1.61
61	F3	17	DG	O3'-P	8.16	1.73	1.61
83	H3	24	DG	O3'-P	8.16	1.73	1.61
179	Q7	7	DG	O3'-P	8.16	1.73	1.61
180	Q8	24	DG	O3'-P	8.16	1.73	1.61
188	R7	5	DG	O3'-P	8.16	1.73	1.61
10	AA	21	DG	O3'-P	8.16	1.73	1.61
11	AB	2409	DG	O3'-P	8.16	1.73	1.61
11	AB	3399	DG	O3'-P	8.16	1.73	1.61
11	AB	3421	DG	O3'-P	8.16	1.73	1.61
11	AB	6665	DG	O3'-P	8.16	1.73	1.61
22	B9	50	DG	O3'-P	8.16	1.73	1.61
40	D5	6	DG	O3'-P	8.16	1.73	1.61
81	H1	14	DG	O3'-P	8.16	1.73	1.61
161	O8	28	DG	O3'-P	8.16	1.73	1.61
11	AB	3487	DG	O3'-P	8.16	1.73	1.61
11	AB	5231	DG	O3'-P	8.16	1.73	1.61
11	AB	6943	DG	O3'-P	8.16	1.73	1.61
106	J5	4	DG	O3'-P	8.16	1.73	1.61
169	P6	7	DG	O3'-P	8.16	1.73	1.61
225	V8	22	DG	O3'-P	8.16	1.73	1.61
234	W9	12	DG	O3'-P	8.16	1.73	1.61
11	AB	1962	DG	O3'-P	8.15	1.73	1.61
43	D8	37	DG	O3'-P	8.15	1.73	1.61
59	F1	2	DG	O3'-P	8.15	1.73	1.61
11	AB	828	DG	O3'-P	8.15	1.73	1.61
11	AB	4256	DG	O3'-P	8.15	1.73	1.61
11	AB	4422	DG	O3'-P	8.15	1.73	1.61
11	AB	7243	DG	O3'-P	8.15	1.73	1.61
84	H5	9	DG	O3'-P	8.15	1.73	1.61
99	I9	27	DG	O3'-P	8.15	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
110	J9	10	DG	O3'-P	8.15	1.73	1.61
28	C3	21	DG	O3'-P	8.15	1.73	1.61
52	E6	4	DG	O3'-P	8.15	1.73	1.61
74	G6	7	DG	O3'-P	8.15	1.73	1.61
109	J8	29	DG	O3'-P	8.15	1.73	1.61
114	K1	10	DG	O3'-P	8.15	1.73	1.61
116	K3	16	DG	O3'-P	8.15	1.73	1.61
131	L8	11	DG	O3'-P	8.15	1.73	1.61
152	N9	29	DG	O3'-P	8.15	1.73	1.61
165	OD	22	DG	O3'-P	8.15	1.73	1.61
225	V8	13	DG	O3'-P	8.15	1.73	1.61
11	AB	405	DG	O3'-P	8.15	1.73	1.61
11	AB	1804	DG	O3'-P	8.15	1.73	1.61
11	AB	2698	DG	O3'-P	8.15	1.73	1.61
11	AB	4760	DG	O3'-P	8.15	1.73	1.61
11	AB	6124	DG	O3'-P	8.15	1.73	1.61
11	AB	7247	DG	O3'-P	8.15	1.73	1.61
18	B5	29	DG	O3'-P	8.15	1.73	1.61
36	CD	3	DG	O3'-P	8.15	1.73	1.61
49	E2	40	DG	O3'-P	8.15	1.73	1.61
82	H2	30	DG	O3'-P	8.15	1.73	1.61
105	J3	9	DG	O3'-P	8.15	1.73	1.61
119	K7	9	DG	O3'-P	8.15	1.73	1.61
155	ND	7	DG	O3'-P	8.15	1.73	1.61
160	O7	16	DG	O3'-P	8.15	1.73	1.61
167	P3	4	DG	O3'-P	8.15	1.73	1.61
198	S8	27	DG	O3'-P	8.15	1.73	1.61
199	S9	6	DG	O3'-P	8.15	1.73	1.61
213	U3	1	DG	O3'-P	8.15	1.73	1.61
238	X9	55	DG	O3'-P	8.15	1.73	1.61
11	AB	4807	DG	O3'-P	8.15	1.73	1.61
11	AB	807	DG	O3'-P	8.15	1.73	1.61
11	AB	906	DG	O3'-P	8.15	1.73	1.61
11	AB	7123	DG	O3'-P	8.15	1.73	1.61
11	AB	2084	DG	O3'-P	8.15	1.73	1.61
11	AB	2868	DG	O3'-P	8.15	1.73	1.61
58	ED	32	DG	O3'-P	8.15	1.73	1.61
238	X9	7	DG	O3'-P	8.15	1.73	1.61
11	AB	2826	DG	O3'-P	8.15	1.73	1.61
11	AB	2974	DG	O3'-P	8.15	1.73	1.61
11	AB	3034	DG	O3'-P	8.15	1.73	1.61
11	AB	5840	DG	O3'-P	8.15	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6969	DG	O3'-P	8.15	1.73	1.61
154	NC	8	DG	O3'-P	8.15	1.73	1.61
11	AB	7199	DG	O3'-P	8.15	1.73	1.61
22	B9	45	DG	O3'-P	8.15	1.73	1.61
23	BA	10	DG	O3'-P	8.15	1.73	1.61
44	D9	24	DG	O3'-P	8.15	1.73	1.61
61	F3	13	DG	O3'-P	8.15	1.73	1.61
76	G8	20	DG	O3'-P	8.15	1.73	1.61
109	J8	49	DG	O3'-P	8.15	1.73	1.61
115	K2	27	DG	O3'-P	8.15	1.73	1.61
119	K7	22	DG	O3'-P	8.15	1.73	1.61
125	L1	2	DG	O3'-P	8.15	1.73	1.61
165	OD	51	DG	O3'-P	8.15	1.73	1.61
210	TC	24	DG	O3'-P	8.15	1.73	1.61
173	PA	4	DG	O3'-P	8.15	1.73	1.61
206	T7	42	DG	O3'-P	8.15	1.73	1.61
11	AB	348	DG	O3'-P	8.14	1.73	1.61
11	AB	4114	DG	O3'-P	8.14	1.73	1.61
11	AB	4801	DG	O3'-P	8.14	1.73	1.61
11	AB	5611	DG	O3'-P	8.14	1.73	1.61
11	AB	6768	DG	O3'-P	8.14	1.73	1.61
24	BC	6	DG	O3'-P	8.14	1.73	1.61
47	DD	15	DG	O3'-P	8.14	1.73	1.61
87	H8	21	DG	O3'-P	8.14	1.73	1.61
106	J5	34	DG	O3'-P	8.14	1.73	1.61
116	K3	6	DG	O3'-P	8.14	1.73	1.61
182	QA	18	DG	O3'-P	8.14	1.73	1.61
183	QC	11	DG	O3'-P	8.14	1.73	1.61
190	R9	8	DG	O3'-P	8.14	1.73	1.61
191	RA	15	DG	O3'-P	8.14	1.73	1.61
230	W3	39	DG	O3'-P	8.14	1.73	1.61
11	AB	1155	DG	O3'-P	8.14	1.73	1.61
18	B5	33	DG	O3'-P	8.14	1.73	1.61
83	H3	19	DG	O3'-P	8.14	1.73	1.61
93	I2	22	DG	O3'-P	8.14	1.73	1.61
147	N3	7	DG	O3'-P	8.14	1.73	1.61
157	O3	1	DG	O3'-P	8.14	1.73	1.61
230	W3	19	DG	O3'-P	8.14	1.73	1.61
11	AB	1721	DG	O3'-P	8.14	1.73	1.61
11	AB	1757	DG	O3'-P	8.14	1.73	1.61
11	AB	3133	DG	O3'-P	8.14	1.73	1.61
11	AB	6072	DG	O3'-P	8.14	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6346	DG	O3'-P	8.14	1.73	1.61
29	C5	3	DG	O3'-P	8.14	1.73	1.61
76	G8	12	DG	O3'-P	8.14	1.73	1.61
90	HC	25	DG	O3'-P	8.14	1.73	1.61
154	NC	4	DG	O3'-P	8.14	1.73	1.61
154	NC	6	DG	O3'-P	8.14	1.73	1.61
11	AB	4778	DG	O3'-P	8.14	1.73	1.61
24	BC	12	DG	O3'-P	8.14	1.73	1.61
86	H7	14	DG	O3'-P	8.14	1.73	1.61
1	A1	23	DG	O3'-P	8.14	1.73	1.61
11	AB	2001	DG	O3'-P	8.14	1.73	1.61
11	AB	5299	DG	O3'-P	8.14	1.73	1.61
11	AB	6250	DG	O3'-P	8.14	1.73	1.61
11	AB	6255	DG	O3'-P	8.14	1.73	1.61
60	F2	20	DG	O3'-P	8.14	1.73	1.61
127	L3	15	DG	O3'-P	8.14	1.73	1.61
148	N5	18	DG	O3'-P	8.14	1.73	1.61
219	UC	31	DG	O3'-P	8.14	1.73	1.61
222	V3	12	DG	O3'-P	8.14	1.73	1.61
222	V3	17	DG	O3'-P	8.14	1.73	1.61
229	VD	5	DG	O3'-P	8.14	1.73	1.61
2	A2	23	DG	O3'-P	8.13	1.73	1.61
11	AB	2119	DG	O3'-P	8.13	1.73	1.61
11	AB	2187	DG	O3'-P	8.13	1.73	1.61
11	AB	2688	DG	O3'-P	8.13	1.73	1.61
11	AB	2863	DG	O3'-P	8.13	1.73	1.61
11	AB	3124	DG	O3'-P	8.13	1.73	1.61
11	AB	6318	DG	O3'-P	8.13	1.73	1.61
39	D3	29	DG	O3'-P	8.13	1.73	1.61
67	FA	27	DG	O3'-P	8.13	1.73	1.61
182	QA	15	DG	O3'-P	8.14	1.73	1.61
195	S3	22	DG	O3'-P	8.14	1.73	1.61
155	ND	14	DG	O3'-P	8.13	1.73	1.61
158	O5	32	DG	O3'-P	8.13	1.73	1.61
160	O7	48	DG	O3'-P	8.13	1.73	1.61
163	OA	4	DG	O3'-P	8.13	1.73	1.61
165	OD	11	DG	O3'-P	8.13	1.73	1.61
185	R2	5	DG	O3'-P	8.13	1.73	1.61
199	S9	3	DG	O3'-P	8.13	1.73	1.61
230	W3	48	DG	O3'-P	8.13	1.73	1.61
11	AB	2483	DG	O3'-P	8.13	1.73	1.61
159	O6	20	DG	O3'-P	8.13	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4611	DG	O3'-P	8.13	1.73	1.61
11	AB	5081	DG	O3'-P	8.13	1.73	1.61
39	D3	20	DG	O3'-P	8.13	1.73	1.61
145	MD	53	DG	O3'-P	8.13	1.73	1.61
148	N5	30	DG	O3'-P	8.13	1.73	1.61
39	D3	26	DG	O3'-P	8.13	1.73	1.61
114	K1	26	DG	O3'-P	8.13	1.73	1.61
11	AB	207	DG	O3'-P	8.13	1.73	1.61
11	AB	614	DG	O3'-P	8.13	1.73	1.61
11	AB	4520	DG	O3'-P	8.13	1.73	1.61
11	AB	4683	DG	O3'-P	8.13	1.73	1.61
11	AB	2267	DG	O3'-P	8.13	1.73	1.61
33	C9	6	DG	O3'-P	8.13	1.73	1.61
34	CA	11	DG	O3'-P	8.13	1.73	1.61
89	HA	13	DG	O3'-P	8.13	1.73	1.61
157	O3	12	DG	O3'-P	8.13	1.73	1.61
185	R2	20	DG	O3'-P	8.13	1.73	1.61
196	S5	9	DG	O3'-P	8.13	1.73	1.61
214	U5	27	DG	O3'-P	8.13	1.73	1.61
11	AB	216	DG	O3'-P	8.13	1.73	1.61
11	AB	3844	DG	O3'-P	8.13	1.73	1.61
11	AB	4755	DG	O3'-P	8.13	1.73	1.61
11	AB	5152	DG	O3'-P	8.13	1.73	1.61
37	D1	12	DG	O3'-P	8.13	1.73	1.61
71	G2	10	DG	O3'-P	8.13	1.73	1.61
89	HA	25	DG	O3'-P	8.13	1.73	1.61
154	NC	21	DG	O3'-P	8.12	1.73	1.61
167	P3	37	DG	O3'-P	8.13	1.73	1.61
209	TA	9	DG	O3'-P	8.13	1.73	1.61
226	V9	24	DG	O3'-P	8.13	1.73	1.61
211	TD	23	DG	O3'-P	8.12	1.73	1.61
11	AB	4018	DG	O3'-P	8.12	1.73	1.61
11	AB	1032	DG	O3'-P	8.12	1.73	1.61
11	AB	2063	DG	O3'-P	8.12	1.73	1.61
11	AB	4100	DG	O3'-P	8.12	1.73	1.61
11	AB	5455	DG	O3'-P	8.12	1.73	1.61
11	AB	6170	DG	O3'-P	8.12	1.73	1.61
28	C3	15	DG	O3'-P	8.12	1.73	1.61
95	I5	30	DG	O3'-P	8.12	1.73	1.61
111	JA	13	DG	O3'-P	8.12	1.73	1.61
11	AB	5205	DG	O3'-P	8.12	1.73	1.61
42	D7	15	DG	O3'-P	8.12	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
134	LC	12	DG	O3'-P	8.12	1.73	1.61
30	C6	37	DG	O3'-P	8.12	1.73	1.61
185	R2	8	DG	O3'-P	8.12	1.73	1.61
55	E9	11	DG	O3'-P	8.12	1.73	1.61
175	PD	8	DG	O3'-P	8.12	1.73	1.61
190	R9	13	DG	O3'-P	8.12	1.73	1.61
195	S3	26	DG	O3'-P	8.12	1.73	1.61
209	TA	6	DG	O3'-P	8.12	1.73	1.61
215	U7	21	DG	O3'-P	8.12	1.73	1.61
228	VC	35	DG	O3'-P	8.12	1.73	1.61
11	AB	2857	DG	O3'-P	8.12	1.73	1.61
11	AB	3638	DG	O3'-P	8.12	1.73	1.61
11	AB	4964	DG	O3'-P	8.12	1.73	1.61
11	AB	4795	DG	O3'-P	8.11	1.73	1.61
123	KC	23	DG	O3'-P	8.11	1.73	1.61
130	L7	38	DG	O3'-P	8.12	1.73	1.61
161	O8	14	DG	O3'-P	8.11	1.73	1.61
219	UC	13	DG	O3'-P	8.12	1.73	1.61
232	W7	6	DG	O3'-P	8.12	1.73	1.61
11	AB	93	DG	O3'-P	8.11	1.73	1.61
11	AB	628	DG	O3'-P	8.11	1.73	1.61
11	AB	2067	DG	O3'-P	8.11	1.73	1.61
11	AB	2077	DG	O3'-P	8.11	1.73	1.61
11	AB	3684	DG	O3'-P	8.11	1.73	1.61
130	L7	56	DG	O3'-P	8.11	1.73	1.61
11	AB	2145	DG	O3'-P	8.11	1.73	1.61
11	AB	3238	DG	O3'-P	8.11	1.73	1.61
11	AB	3576	DG	O3'-P	8.11	1.73	1.61
11	AB	5587	DG	O3'-P	8.11	1.73	1.61
108	J7	53	DG	O3'-P	8.11	1.73	1.61
226	V9	28	DG	O3'-P	8.11	1.73	1.61
11	AB	5583	DG	O3'-P	8.11	1.73	1.61
11	AB	5761	DG	O3'-P	8.11	1.73	1.61
13	AD	16	DG	O3'-P	8.11	1.73	1.61
111	JA	6	DG	O3'-P	8.11	1.73	1.61
187	R5	21	DG	O3'-P	8.11	1.73	1.61
119	K7	1	DG	O3'-P	8.11	1.73	1.61
203	T2	26	DG	O3'-P	8.11	1.73	1.61
206	T7	7	DG	O3'-P	8.11	1.73	1.61
11	AB	1311	DG	O3'-P	8.11	1.73	1.61
11	AB	2622	DG	O3'-P	8.11	1.73	1.61
11	AB	3863	DG	O3'-P	8.11	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4336	DG	O3'-P	8.11	1.73	1.61
11	AB	5129	DG	O3'-P	8.11	1.73	1.61
19	B6	15	DG	O3'-P	8.11	1.73	1.61
51	E5	28	DG	O3'-P	8.11	1.73	1.61
63	F6	6	DG	O3'-P	8.11	1.73	1.61
67	FA	1	DG	O3'-P	8.11	1.73	1.61
177	Q3	5	DG	O3'-P	8.11	1.73	1.61
216	U8	11	DG	O3'-P	8.11	1.73	1.61
9	A9	8	DG	O3'-P	8.11	1.73	1.61
11	AB	3900	DG	O3'-P	8.11	1.73	1.61
11	AB	4558	DG	O3'-P	8.11	1.73	1.61
11	AB	4832	DG	O3'-P	8.11	1.73	1.61
11	AB	6088	DG	O3'-P	8.11	1.73	1.61
11	AB	7157	DG	O3'-P	8.11	1.73	1.61
32	C8	53	DG	O3'-P	8.11	1.73	1.61
22	B9	24	DG	O3'-P	8.11	1.73	1.61
45	DA	11	DG	O3'-P	8.11	1.73	1.61
108	J7	31	DG	O3'-P	8.11	1.73	1.61
135	LD	7	DG	O3'-P	8.11	1.73	1.61
194	S2	12	DG	O3'-P	8.11	1.73	1.61
227	VA	12	DG	O3'-P	8.11	1.73	1.61
224	V7	21	DG	O3'-P	8.11	1.73	1.61
11	AB	1782	DG	O3'-P	8.10	1.73	1.61
11	AB	3892	DG	O3'-P	8.10	1.73	1.61
45	DA	20	DG	O3'-P	8.10	1.73	1.61
126	L2	51	DG	O3'-P	8.10	1.73	1.61
219	UC	27	DG	O3'-P	8.10	1.73	1.61
6	A6	21	DG	O3'-P	8.10	1.73	1.61
11	AB	138	DG	O3'-P	8.10	1.73	1.61
11	AB	6208	DG	O3'-P	8.10	1.73	1.61
11	AB	6454	DG	O3'-P	8.10	1.73	1.61
11	AB	6893	DG	O3'-P	8.10	1.73	1.61
37	D1	15	DG	O3'-P	8.10	1.73	1.61
85	H6	26	DG	O3'-P	8.10	1.73	1.61
228	VC	24	DG	O3'-P	8.10	1.73	1.61
11	AB	474	DG	O3'-P	8.10	1.73	1.61
11	AB	1336	DG	O3'-P	8.10	1.73	1.61
11	AB	3381	DG	O3'-P	8.10	1.73	1.61
11	AB	5200	DG	O3'-P	8.10	1.73	1.61
11	AB	6158	DG	O3'-P	8.10	1.73	1.61
90	HC	21	DG	O3'-P	8.10	1.73	1.61
103	J1	4	DG	O3'-P	8.10	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
108	J7	5	DG	O3'-P	8.10	1.73	1.61
114	K1	44	DG	O3'-P	8.10	1.73	1.61
137	M3	5	DG	O3'-P	8.10	1.73	1.61
145	MD	33	DG	O3'-P	8.10	1.73	1.61
156	O2	54	DG	O3'-P	8.10	1.73	1.61
236	X5	9	DG	O3'-P	8.10	1.73	1.61
174	PC	14	DG	O3'-P	8.10	1.73	1.61
181	Q9	2	DG	O3'-P	8.10	1.73	1.61
195	S3	24	DG	O3'-P	8.10	1.73	1.61
206	T7	21	DG	O3'-P	8.10	1.73	1.61
225	V8	11	DG	O3'-P	8.10	1.73	1.61
230	W3	9	DG	O3'-P	8.10	1.73	1.61
11	AB	140	DG	O3'-P	8.10	1.73	1.61
11	AB	270	DG	O3'-P	8.10	1.73	1.61
11	AB	273	DG	O3'-P	8.10	1.73	1.61
11	AB	1416	DG	O3'-P	8.10	1.73	1.61
11	AB	2124	DG	O3'-P	8.10	1.73	1.61
11	AB	2545	DG	O3'-P	8.10	1.73	1.61
11	AB	3391	DG	O3'-P	8.10	1.73	1.61
11	AB	4663	DG	O3'-P	8.10	1.73	1.61
11	AB	5262	DG	O3'-P	8.10	1.73	1.61
113	JD	5	DG	O3'-P	8.10	1.73	1.61
11	AB	4748	DG	O3'-P	8.10	1.73	1.61
22	B9	22	DG	O3'-P	8.10	1.73	1.61
32	C8	19	DG	O3'-P	8.10	1.73	1.61
89	HA	28	DG	O3'-P	8.10	1.73	1.61
119	K7	13	DG	O3'-P	8.10	1.73	1.61
121	K9	9	DG	O3'-P	8.10	1.73	1.61
137	M3	17	DG	O3'-P	8.10	1.73	1.61
206	T7	5	DG	O3'-P	8.10	1.73	1.61
216	U8	14	DG	O3'-P	8.10	1.73	1.61
8	A8	10	DG	O3'-P	8.10	1.73	1.61
33	C9	2	DG	O3'-P	8.10	1.73	1.61
11	AB	70	DG	O3'-P	8.10	1.73	1.61
11	AB	101	DG	O3'-P	8.10	1.73	1.61
11	AB	2920	DG	O3'-P	8.10	1.73	1.61
11	AB	2941	DG	O3'-P	8.10	1.73	1.61
11	AB	4411	DG	O3'-P	8.10	1.73	1.61
11	AB	5572	DG	O3'-P	8.10	1.73	1.61
11	AB	5909	DG	O3'-P	8.10	1.73	1.61
11	AB	5987	DG	O3'-P	8.10	1.73	1.61
11	AB	7110	DG	O3'-P	8.10	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	D8	40	DG	O3'-P	8.10	1.73	1.61
48	E1	5	DG	O3'-P	8.10	1.73	1.61
95	I5	12	DG	O3'-P	8.10	1.73	1.61
61	F3	10	DG	O3'-P	8.10	1.73	1.61
102	ID	24	DG	O3'-P	8.10	1.73	1.61
140	M7	22	DG	O3'-P	8.10	1.73	1.61
104	J2	1	DG	O3'-P	8.10	1.73	1.61
107	J6	12	DG	O3'-P	8.10	1.73	1.61
108	J7	8	DG	O3'-P	8.10	1.73	1.61
118	K6	18	DG	O3'-P	8.10	1.73	1.61
156	O2	19	DG	O3'-P	8.10	1.73	1.61
9	A9	6	DG	O3'-P	8.09	1.73	1.61
11	AB	1628	DG	O3'-P	8.09	1.73	1.61
11	AB	1821	DG	O3'-P	8.09	1.73	1.61
11	AB	2160	DG	O3'-P	8.09	1.73	1.61
11	AB	2887	DG	O3'-P	8.09	1.73	1.61
11	AB	3066	DG	O3'-P	8.09	1.73	1.61
11	AB	4892	DG	O3'-P	8.09	1.73	1.61
11	AB	4976	DG	O3'-P	8.09	1.73	1.61
11	AB	5425	DG	O3'-P	8.09	1.73	1.61
11	AB	5578	DG	O3'-P	8.09	1.73	1.61
11	AB	5949	DG	O3'-P	8.09	1.73	1.61
11	AB	6838	DG	O3'-P	8.09	1.73	1.61
22	B9	11	DG	O3'-P	8.09	1.73	1.61
94	I3	29	DG	O3'-P	8.09	1.73	1.61
114	K1	31	DG	O3'-P	8.09	1.73	1.61
125	L1	10	DG	O3'-P	8.09	1.73	1.61
29	C5	10	DG	O3'-P	8.09	1.73	1.61
136	M2	8	DG	O3'-P	8.09	1.73	1.61
7	A7	11	DG	O3'-P	8.09	1.73	1.61
11	AB	546	DG	O3'-P	8.09	1.73	1.61
11	AB	3727	DG	O3'-P	8.09	1.73	1.61
11	AB	6514	DG	O3'-P	8.09	1.73	1.61
33	C9	9	DG	O3'-P	8.09	1.73	1.61
46	DC	6	DG	O3'-P	8.09	1.73	1.61
201	SC	12	DG	O3'-P	8.09	1.73	1.61
206	T7	36	DG	O3'-P	8.09	1.73	1.61
226	V9	22	DG	O3'-P	8.09	1.73	1.61
9	A9	10	DG	O3'-P	8.09	1.73	1.61
11	AB	623	DG	O3'-P	8.09	1.73	1.61
11	AB	762	DG	O3'-P	8.09	1.73	1.61
11	AB	792	DG	O3'-P	8.09	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1264	DG	O3'-P	8.09	1.73	1.61
11	AB	4307	DG	O3'-P	8.09	1.73	1.61
11	AB	5116	DG	O3'-P	8.09	1.73	1.61
11	AB	6286	DG	O3'-P	8.09	1.73	1.61
206	T7	50	DG	O3'-P	8.09	1.73	1.61
11	AB	5845	DG	O3'-P	8.09	1.73	1.61
123	KC	12	DG	O3'-P	8.09	1.73	1.61
145	MD	55	DG	O3'-P	8.09	1.73	1.61
198	S8	34	DG	O3'-P	8.09	1.73	1.61
11	AB	4645	DG	O3'-P	8.09	1.73	1.61
11	AB	4823	DG	O3'-P	8.09	1.73	1.61
11	AB	483	DG	O3'-P	8.09	1.73	1.61
11	AB	1907	DG	O3'-P	8.09	1.73	1.61
11	AB	1875	DG	O3'-P	8.09	1.73	1.61
11	AB	2416	DG	O3'-P	8.09	1.73	1.61
11	AB	2718	DG	O3'-P	8.09	1.73	1.61
11	AB	5474	DG	O3'-P	8.09	1.73	1.61
11	AB	6445	DG	O3'-P	8.09	1.73	1.61
38	D2	6	DG	O3'-P	8.09	1.73	1.61
41	D6	9	DG	O3'-P	8.09	1.73	1.61
199	S9	18	DG	O3'-P	8.09	1.73	1.61
85	H6	5	DG	O3'-P	8.09	1.73	1.61
109	J8	44	DG	O3'-P	8.09	1.73	1.61
150	N7	15	DG	O3'-P	8.09	1.73	1.61
165	OD	29	DG	O3'-P	8.09	1.73	1.61
178	Q5	15	DG	O3'-P	8.09	1.73	1.61
221	V2	12	DG	O3'-P	8.09	1.73	1.61
179	Q7	25	DG	O3'-P	8.09	1.73	1.61
200	SA	8	DG	O3'-P	8.09	1.73	1.61
11	AB	303	DG	O3'-P	8.08	1.73	1.61
11	AB	22	DG	O3'-P	8.08	1.73	1.61
11	AB	1083	DG	O3'-P	8.08	1.73	1.61
11	AB	1751	DG	O3'-P	8.08	1.73	1.61
11	AB	2628	DG	O3'-P	8.08	1.73	1.61
11	AB	3230	DG	O3'-P	8.08	1.73	1.61
11	AB	3406	DG	O3'-P	8.08	1.73	1.61
11	AB	4329	DG	O3'-P	8.08	1.73	1.61
56	EA	5	DG	O3'-P	8.08	1.73	1.61
69	FD	40	DG	O3'-P	8.08	1.73	1.61
72	G3	11	DG	O3'-P	8.08	1.73	1.61
11	AB	3814	DG	O3'-P	8.08	1.73	1.61
11	AB	4311	DG	O3'-P	8.08	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5234	DG	O3'-P	8.08	1.73	1.61
11	AB	5488	DG	O3'-P	8.08	1.73	1.61
11	AB	6022	DG	O3'-P	8.08	1.73	1.61
11	AB	6151	DG	O3'-P	8.08	1.73	1.61
15	B2	16	DG	O3'-P	8.08	1.73	1.61
18	B5	13	DG	O3'-P	8.08	1.73	1.61
25	BD	10	DG	O3'-P	8.08	1.73	1.61
32	C8	32	DG	O3'-P	8.08	1.73	1.61
36	CD	19	DG	O3'-P	8.08	1.73	1.61
74	G6	5	DG	O3'-P	8.08	1.73	1.61
102	ID	21	DG	O3'-P	8.08	1.73	1.61
113	JD	1	DG	O3'-P	8.08	1.73	1.61
126	L2	48	DG	O3'-P	8.08	1.73	1.61
130	L7	1	DG	O3'-P	8.08	1.73	1.61
169	P6	16	DG	O3'-P	8.08	1.73	1.61
11	AB	687	DG	O3'-P	8.08	1.73	1.61
11	AB	984	DG	O3'-P	8.08	1.73	1.61
11	AB	2806	DG	O3'-P	8.08	1.73	1.61
11	AB	4057	DG	O3'-P	8.08	1.73	1.61
11	AB	4961	DG	O3'-P	8.08	1.73	1.61
11	AB	5720	DG	O3'-P	8.08	1.73	1.61
11	AB	4650	DG	O3'-P	8.08	1.73	1.61
11	AB	5683	DG	O3'-P	8.08	1.73	1.61
67	FA	3	DG	O3'-P	8.08	1.73	1.61
11	AB	6789	DG	O3'-P	8.08	1.73	1.61
122	KA	44	DG	O3'-P	8.08	1.73	1.61
130	L7	6	DG	O3'-P	8.08	1.73	1.61
130	L7	34	DG	O3'-P	8.08	1.73	1.61
161	O8	51	DG	O3'-P	8.08	1.73	1.61
189	R8	31	DG	O3'-P	8.08	1.73	1.61
197	S7	23	DG	O3'-P	8.08	1.73	1.61
170	P7	17	DG	O3'-P	8.08	1.73	1.61
11	AB	152	DG	O3'-P	8.08	1.73	1.61
11	AB	989	DG	O3'-P	8.08	1.73	1.61
11	AB	3796	DG	O3'-P	8.08	1.73	1.61
11	AB	6746	DG	O3'-P	8.08	1.73	1.61
25	BD	7	DG	O3'-P	8.08	1.73	1.61
52	E6	28	DG	O3'-P	8.08	1.73	1.61
11	AB	359	DG	O3'-P	8.08	1.73	1.61
11	AB	584	DG	O3'-P	8.08	1.73	1.61
11	AB	910	DG	O3'-P	8.08	1.73	1.61
11	AB	2754	DG	O3'-P	8.08	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5054	DG	O3'-P	8.08	1.73	1.61
11	AB	5743	DG	O3'-P	8.08	1.73	1.61
11	AB	5977	DG	O3'-P	8.08	1.73	1.61
26	C1	19	DG	O3'-P	8.08	1.73	1.61
32	C8	37	DG	O3'-P	8.08	1.73	1.61
11	AB	6628	DG	O3'-P	8.08	1.73	1.61
35	CC	7	DG	O3'-P	8.08	1.73	1.61
59	F1	18	DG	O3'-P	8.08	1.73	1.61
93	I2	41	DG	O3'-P	8.08	1.73	1.61
165	OD	32	DG	O3'-P	8.08	1.73	1.61
85	H6	29	DG	O3'-P	8.08	1.73	1.61
125	L1	33	DG	O3'-P	8.08	1.73	1.61
196	S5	22	DG	O3'-P	8.08	1.73	1.61
11	AB	746	DG	O3'-P	8.07	1.73	1.61
11	AB	2218	DG	O3'-P	8.07	1.73	1.61
11	AB	3100	DG	O3'-P	8.07	1.73	1.61
11	AB	3220	DG	O3'-P	8.07	1.73	1.61
126	L2	36	DG	O3'-P	8.07	1.73	1.61
153	NA	22	DG	O3'-P	8.07	1.73	1.61
1	A1	42	DG	O3'-P	8.07	1.73	1.61
3	A3	20	DG	O3'-P	8.07	1.73	1.61
11	AB	3115	DG	O3'-P	8.07	1.73	1.61
11	AB	3633	DG	O3'-P	8.07	1.73	1.61
11	AB	5042	DG	O3'-P	8.07	1.73	1.61
11	AB	5421	DG	O3'-P	8.07	1.73	1.61
16	B3	18	DG	O3'-P	8.07	1.73	1.61
31	C7	20	DG	O3'-P	8.07	1.73	1.61
38	D2	1	DG	O3'-P	8.07	1.73	1.61
49	E2	32	DG	O3'-P	8.07	1.73	1.61
55	E9	29	DG	O3'-P	8.07	1.73	1.61
55	E9	38	DG	O3'-P	8.07	1.73	1.61
87	H8	19	DG	O3'-P	8.07	1.73	1.61
102	ID	2	DG	O3'-P	8.07	1.73	1.61
141	M8	15	DG	O3'-P	8.07	1.73	1.61
144	MC	1	DG	O3'-P	8.07	1.73	1.61
181	Q9	20	DG	O3'-P	8.07	1.73	1.61
198	S8	8	DG	O3'-P	8.07	1.73	1.61
218	UA	11	DG	O3'-P	8.07	1.73	1.61
11	AB	3376	DG	O3'-P	8.07	1.73	1.61
11	AB	5656	DG	O3'-P	8.07	1.73	1.61
11	AB	5956	DG	O3'-P	8.07	1.73	1.61
11	AB	5973	DG	O3'-P	8.07	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	964	DG	O3'-P	8.07	1.73	1.61
11	AB	1105	DG	O3'-P	8.07	1.73	1.61
11	AB	1200	DG	O3'-P	8.07	1.73	1.61
11	AB	5194	DG	O3'-P	8.07	1.73	1.61
11	AB	5249	DG	O3'-P	8.07	1.73	1.61
11	AB	6494	DG	O3'-P	8.07	1.73	1.61
183	QC	19	DG	O3'-P	8.07	1.73	1.61
21	B8	16	DG	O3'-P	8.07	1.73	1.61
76	G8	15	DG	O3'-P	8.07	1.73	1.61
154	NC	35	DG	O3'-P	8.07	1.73	1.61
209	TA	31	DG	O3'-P	8.07	1.73	1.61
219	UC	8	DG	O3'-P	8.07	1.73	1.61
11	AB	285	DG	O3'-P	8.07	1.73	1.61
11	AB	336	DG	O3'-P	8.07	1.73	1.61
11	AB	921	DG	O3'-P	8.07	1.73	1.61
11	AB	2313	DG	O3'-P	8.07	1.73	1.61
11	AB	2540	DG	O3'-P	8.07	1.73	1.61
11	AB	6120	DG	O3'-P	8.07	1.73	1.61
11	AB	7025	DG	O3'-P	8.07	1.73	1.61
120	K8	10	DG	O3'-P	8.07	1.73	1.61
126	L2	24	DG	O3'-P	8.07	1.73	1.61
11	AB	1116	DG	O3'-P	8.07	1.73	1.61
11	AB	1194	DG	O3'-P	8.07	1.73	1.61
11	AB	2726	DG	O3'-P	8.07	1.73	1.61
11	AB	5560	DG	O3'-P	8.07	1.73	1.61
11	AB	6543	DG	O3'-P	8.07	1.73	1.61
11	AB	6634	DG	O3'-P	8.07	1.73	1.61
27	C2	9	DG	O3'-P	8.07	1.73	1.61
91	HD	15	DG	O3'-P	8.07	1.73	1.61
121	K9	27	DG	O3'-P	8.07	1.73	1.61
178	Q5	9	DG	O3'-P	8.07	1.73	1.61
212	U2	20	DG	O3'-P	8.07	1.73	1.61
11	AB	868	DG	O3'-P	8.06	1.73	1.61
11	AB	940	DG	O3'-P	8.06	1.73	1.61
11	AB	1192	DG	O3'-P	8.06	1.73	1.61
11	AB	3364	DG	O3'-P	8.06	1.73	1.61
11	AB	3518	DG	O3'-P	8.06	1.73	1.61
17	B4	18	DG	O3'-P	8.06	1.73	1.61
188	R7	25	DG	O3'-P	8.06	1.73	1.61
231	W5	24	DG	O3'-P	8.06	1.73	1.61
11	AB	351	DG	O3'-P	8.06	1.73	1.61
11	AB	361	DG	O3'-P	8.06	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5273	DG	O3'-P	8.06	1.73	1.61
83	H3	30	DG	O3'-P	8.06	1.73	1.61
11	AB	846	DG	O3'-P	8.06	1.73	1.61
11	AB	1604	DG	O3'-P	8.06	1.73	1.61
11	AB	1910	DG	O3'-P	8.06	1.73	1.61
11	AB	2203	DG	O3'-P	8.06	1.73	1.61
11	AB	3088	DG	O3'-P	8.06	1.73	1.61
11	AB	3682	DG	O3'-P	8.06	1.73	1.61
11	AB	4097	DG	O3'-P	8.06	1.73	1.61
11	AB	5899	DG	O3'-P	8.06	1.73	1.61
11	AB	6458	DG	O3'-P	8.06	1.73	1.61
31	C7	23	DG	O3'-P	8.06	1.73	1.61
111	JA	10	DG	O3'-P	8.06	1.73	1.61
205	T5	22	DG	O3'-P	8.06	1.73	1.61
14	B1	27	DG	O3'-P	8.06	1.73	1.61
128	L5	16	DG	O3'-P	8.06	1.73	1.61
11	AB	54	DG	O3'-P	8.06	1.73	1.61
11	AB	522	DG	O3'-P	8.06	1.73	1.61
11	AB	2073	DG	O3'-P	8.06	1.73	1.61
11	AB	2833	DG	O3'-P	8.06	1.73	1.61
11	AB	3387	DG	O3'-P	8.06	1.73	1.61
11	AB	4837	DG	O3'-P	8.06	1.73	1.61
11	AB	5493	DG	O3'-P	8.06	1.73	1.61
11	AB	7028	DG	O3'-P	8.06	1.73	1.61
22	B9	53	DG	O3'-P	8.06	1.73	1.61
57	EC	12	DG	O3'-P	8.06	1.73	1.61
187	R5	27	DG	O3'-P	8.06	1.73	1.61
202	SD	6	DG	O3'-P	8.06	1.73	1.61
141	M8	21	DG	O3'-P	8.06	1.73	1.61
155	ND	3	DG	O3'-P	8.06	1.73	1.61
157	O3	19	DG	O3'-P	8.06	1.73	1.61
11	AB	970	DG	O3'-P	8.06	1.73	1.61
11	AB	1845	DG	O3'-P	8.06	1.73	1.61
11	AB	3731	DG	O3'-P	8.06	1.73	1.61
11	AB	6760	DG	O3'-P	8.06	1.73	1.61
178	Q5	39	DG	O3'-P	8.06	1.73	1.61
2	A2	7	DG	O3'-P	8.05	1.73	1.61
11	AB	424	DG	O3'-P	8.05	1.73	1.61
11	AB	946	DG	O3'-P	8.05	1.73	1.61
11	AB	1020	DG	O3'-P	8.05	1.73	1.61
11	AB	1408	DG	O3'-P	8.05	1.73	1.61
11	AB	2715	DG	O3'-P	8.05	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3152	DG	O3'-P	8.05	1.73	1.61
11	AB	5942	DG	O3'-P	8.05	1.73	1.61
11	AB	5965	DG	O3'-P	8.05	1.73	1.61
19	B6	9	DG	O3'-P	8.05	1.73	1.61
29	C5	16	DG	O3'-P	8.05	1.73	1.61
39	D3	10	DG	O3'-P	8.05	1.73	1.61
95	I5	22	DG	O3'-P	8.05	1.73	1.61
177	Q3	22	DG	O3'-P	8.05	1.73	1.61
11	AB	180	DG	O3'-P	8.05	1.73	1.61
11	AB	651	DG	O3'-P	8.05	1.73	1.61
5	A5	3	DG	O3'-P	8.05	1.73	1.61
11	AB	454	DG	O3'-P	8.05	1.73	1.61
11	AB	608	DG	O3'-P	8.05	1.73	1.61
11	AB	1773	DG	O3'-P	8.05	1.73	1.61
11	AB	4092	DG	O3'-P	8.05	1.73	1.61
165	OD	6	DG	O3'-P	8.05	1.73	1.61
11	AB	1461	DG	O3'-P	8.05	1.73	1.61
11	AB	2761	DG	O3'-P	8.05	1.73	1.61
11	AB	2977	DG	O3'-P	8.05	1.73	1.61
11	AB	4293	DG	O3'-P	8.05	1.73	1.61
11	AB	6340	DG	O3'-P	8.05	1.73	1.61
11	AB	6577	DG	O3'-P	8.05	1.73	1.61
20	B7	21	DG	O3'-P	8.05	1.73	1.61
73	G5	16	DG	O3'-P	8.05	1.73	1.61
11	AB	7030	DG	O3'-P	8.05	1.73	1.61
11	AB	7151	DG	O3'-P	8.05	1.73	1.61
40	D5	19	DG	O3'-P	8.05	1.73	1.61
68	FC	14	DG	O3'-P	8.05	1.73	1.61
199	S9	22	DG	O3'-P	8.05	1.73	1.61
207	T8	23	DG	O3'-P	8.05	1.73	1.61
11	AB	314	DG	O3'-P	8.05	1.73	1.61
11	AB	1376	DG	O3'-P	8.05	1.73	1.61
11	AB	3562	DG	O3'-P	8.05	1.73	1.61
11	AB	3847	DG	O3'-P	8.05	1.73	1.61
11	AB	6592	DG	O3'-P	8.05	1.73	1.61
11	AB	6709	DG	O3'-P	8.05	1.73	1.61
11	AB	6901	DG	O3'-P	8.05	1.73	1.61
129	L6	6	DG	O3'-P	8.05	1.73	1.61
207	T8	19	DG	O3'-P	8.05	1.73	1.61
11	AB	2569	DG	O3'-P	8.05	1.73	1.61
11	AB	5552	DG	O3'-P	8.05	1.73	1.61
11	AB	6331	DG	O3'-P	8.05	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6883	DG	O3'-P	8.05	1.73	1.61
11	AB	7066	DG	O3'-P	8.05	1.73	1.61
66	F9	16	DG	O3'-P	8.05	1.73	1.61
78	GA	3	DG	O3'-P	8.05	1.73	1.61
97	I7	8	DG	O3'-P	8.05	1.73	1.61
97	I7	11	DG	O3'-P	8.05	1.73	1.61
130	L7	10	DG	O3'-P	8.05	1.73	1.61
204	T3	39	DG	O3'-P	8.05	1.73	1.61
130	L7	30	DG	O3'-P	8.05	1.73	1.61
202	SD	10	DG	O3'-P	8.05	1.73	1.61
11	AB	891	DG	O3'-P	8.05	1.73	1.61
11	AB	898	DG	O3'-P	8.04	1.73	1.61
11	AB	1228	DG	O3'-P	8.04	1.73	1.61
83	H3	11	DG	O3'-P	8.05	1.73	1.61
11	AB	1349	DG	O3'-P	8.04	1.73	1.61
11	AB	2196	DG	O3'-P	8.04	1.73	1.61
11	AB	2452	DG	O3'-P	8.05	1.73	1.61
11	AB	2799	DG	O3'-P	8.05	1.73	1.61
11	AB	2901	DG	O3'-P	8.05	1.73	1.61
11	AB	3782	DG	O3'-P	8.05	1.73	1.61
11	AB	2932	DG	O3'-P	8.04	1.73	1.61
11	AB	3818	DG	O3'-P	8.04	1.73	1.61
11	AB	4681	DG	O3'-P	8.05	1.73	1.61
11	AB	4740	DG	O3'-P	8.04	1.73	1.61
11	AB	5735	DG	O3'-P	8.04	1.73	1.61
11	AB	6795	DG	O3'-P	8.04	1.73	1.61
90	HC	27	DG	O3'-P	8.05	1.73	1.61
26	C1	4	DG	O3'-P	8.04	1.73	1.61
103	J1	26	DG	O3'-P	8.04	1.73	1.61
159	O6	11	DG	O3'-P	8.04	1.73	1.61
213	U3	16	DG	O3'-P	8.05	1.73	1.61
7	A7	35	DG	O3'-P	8.04	1.73	1.61
11	AB	1815	DG	O3'-P	8.04	1.73	1.61
8	A8	24	DG	O3'-P	8.04	1.73	1.61
11	AB	2366	DG	O3'-P	8.04	1.73	1.61
11	AB	5183	DG	O3'-P	8.04	1.73	1.61
11	AB	6966	DG	O3'-P	8.04	1.73	1.61
72	G3	4	DG	O3'-P	8.04	1.73	1.61
11	AB	4871	DG	O3'-P	8.04	1.73	1.61
11	AB	6985	DG	O3'-P	8.04	1.73	1.61
13	AD	22	DG	O3'-P	8.04	1.73	1.61
92	I1	15	DG	O3'-P	8.04	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
95	I5	38	DG	O3'-P	8.04	1.73	1.61
117	K5	44	DG	O3'-P	8.04	1.73	1.61
124	KD	19	DG	O3'-P	8.04	1.73	1.61
138	M5	23	DG	O3'-P	8.04	1.73	1.61
146	N2	8	DG	O3'-P	8.04	1.73	1.61
188	R7	10	DG	O3'-P	8.04	1.73	1.61
234	W9	8	DG	O3'-P	8.04	1.73	1.61
6	A6	6	DG	O3'-P	8.04	1.73	1.61
11	AB	1046	DG	O3'-P	8.04	1.73	1.61
11	AB	1339	DG	O3'-P	8.04	1.73	1.61
11	AB	1634	DG	O3'-P	8.04	1.73	1.61
43	D8	5	DG	O3'-P	8.04	1.73	1.61
11	AB	1641	DG	O3'-P	8.04	1.73	1.61
11	AB	2045	DG	O3'-P	8.04	1.73	1.61
11	AB	2193	DG	O3'-P	8.04	1.73	1.61
11	AB	3521	DG	O3'-P	8.04	1.73	1.61
11	AB	3661	DG	O3'-P	8.04	1.73	1.61
11	AB	3680	DG	O3'-P	8.04	1.73	1.61
11	AB	4365	DG	O3'-P	8.04	1.73	1.61
11	AB	4535	DG	O3'-P	8.04	1.73	1.61
11	AB	4638	DG	O3'-P	8.04	1.73	1.61
11	AB	5289	DG	O3'-P	8.04	1.73	1.61
11	AB	6001	DG	O3'-P	8.04	1.73	1.61
11	AB	6100	DG	O3'-P	8.04	1.73	1.61
11	AB	7081	DG	O3'-P	8.04	1.73	1.61
67	FA	22	DG	O3'-P	8.04	1.73	1.61
114	K1	22	DG	O3'-P	8.04	1.73	1.61
125	L1	29	DG	O3'-P	8.04	1.73	1.61
11	AB	5557	DG	O3'-P	8.04	1.73	1.61
11	AB	5875	DG	O3'-P	8.04	1.73	1.61
11	AB	6870	DG	O3'-P	8.04	1.73	1.61
25	BD	17	DG	O3'-P	8.04	1.73	1.61
39	D3	3	DG	O3'-P	8.04	1.73	1.61
46	DC	14	DG	O3'-P	8.04	1.73	1.61
53	E7	1	DG	O3'-P	8.04	1.73	1.61
58	ED	9	DG	O3'-P	8.04	1.73	1.61
75	G7	24	DG	O3'-P	8.04	1.73	1.61
133	LA	19	DG	O3'-P	8.04	1.73	1.61
152	N9	12	DG	O3'-P	8.04	1.73	1.61
192	RC	28	DG	O3'-P	8.04	1.73	1.61
196	S5	4	DG	O3'-P	8.04	1.73	1.61
214	U5	38	DG	O3'-P	8.04	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	32	DG	O3'-P	8.04	1.73	1.61
11	AB	124	DG	O3'-P	8.04	1.73	1.61
11	AB	223	DG	O3'-P	8.04	1.73	1.61
11	AB	1589	DG	O3'-P	8.04	1.73	1.61
11	AB	2782	DG	O3'-P	8.04	1.73	1.61
11	AB	3013	DG	O3'-P	8.04	1.73	1.61
11	AB	4338	DG	O3'-P	8.04	1.73	1.61
11	AB	4881	DG	O3'-P	8.04	1.73	1.61
11	AB	5257	DG	O3'-P	8.04	1.73	1.61
11	AB	6126	DG	O3'-P	8.04	1.73	1.61
11	AB	6357	DG	O3'-P	8.04	1.73	1.61
11	AB	6817	DG	O3'-P	8.04	1.73	1.61
14	B1	18	DG	O3'-P	8.04	1.73	1.61
93	I2	36	DG	O3'-P	8.04	1.73	1.61
22	B9	47	DG	O3'-P	8.03	1.73	1.61
94	I3	2	DG	O3'-P	8.04	1.73	1.61
128	L5	1	DG	O3'-P	8.04	1.73	1.61
155	ND	10	DG	O3'-P	8.03	1.73	1.61
180	Q8	26	DG	O3'-P	8.04	1.73	1.61
187	R5	25	DG	O3'-P	8.04	1.73	1.61
206	T7	34	DG	O3'-P	8.04	1.73	1.61
211	TD	13	DG	O3'-P	8.04	1.73	1.61
8	A8	5	DG	O3'-P	8.03	1.73	1.61
11	AB	367	DG	O3'-P	8.03	1.73	1.61
11	AB	1029	DG	O3'-P	8.03	1.73	1.61
11	AB	541	DG	O3'-P	8.03	1.73	1.61
11	AB	1341	DG	O3'-P	8.03	1.73	1.61
11	AB	1362	DG	O3'-P	8.03	1.73	1.61
11	AB	1739	DG	O3'-P	8.03	1.73	1.61
11	AB	2056	DG	O3'-P	8.03	1.73	1.61
11	AB	2214	DG	O3'-P	8.03	1.73	1.61
11	AB	2679	DG	O3'-P	8.03	1.73	1.61
11	AB	2926	DG	O3'-P	8.03	1.73	1.61
11	AB	4789	DG	O3'-P	8.03	1.73	1.61
149	N6	26	DG	O3'-P	8.03	1.73	1.61
11	AB	3208	DG	O3'-P	8.03	1.73	1.61
11	AB	4542	DG	O3'-P	8.03	1.73	1.61
11	AB	6616	DG	O3'-P	8.03	1.73	1.61
14	B1	3	DG	O3'-P	8.03	1.73	1.61
24	BC	23	DG	O3'-P	8.03	1.73	1.61
34	CA	13	DG	O3'-P	8.03	1.73	1.61
23	BA	34	DG	O3'-P	8.03	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	D6	27	DG	O3'-P	8.03	1.73	1.61
87	H8	15	DG	O3'-P	8.03	1.73	1.61
107	J6	41	DG	O3'-P	8.03	1.73	1.61
203	T2	22	DG	O3'-P	8.03	1.73	1.61
11	AB	1527	DG	O3'-P	8.03	1.73	1.61
11	AB	2643	DG	O3'-P	8.03	1.73	1.61
11	AB	3020	DG	O3'-P	8.03	1.73	1.61
11	AB	3604	DG	O3'-P	8.03	1.73	1.61
11	AB	3649	DG	O3'-P	8.03	1.73	1.61
11	AB	4029	DG	O3'-P	8.03	1.73	1.61
11	AB	4355	DG	O3'-P	8.03	1.73	1.61
11	AB	5168	DG	O3'-P	8.03	1.73	1.61
11	AB	317	DG	O3'-P	8.03	1.73	1.61
11	AB	2209	DG	O3'-P	8.03	1.73	1.61
11	AB	3880	DG	O3'-P	8.03	1.73	1.61
11	AB	3993	DG	O3'-P	8.03	1.73	1.61
11	AB	4344	DG	O3'-P	8.03	1.73	1.61
11	AB	5728	DG	O3'-P	8.03	1.73	1.61
11	AB	5818	DG	O3'-P	8.03	1.73	1.61
11	AB	6565	DG	O3'-P	8.03	1.73	1.61
149	N6	24	DG	O3'-P	8.03	1.73	1.61
11	AB	4036	DG	O3'-P	8.03	1.73	1.61
11	AB	4633	DG	O3'-P	8.03	1.73	1.61
11	AB	6479	DG	O3'-P	8.03	1.73	1.61
11	AB	6897	DG	O3'-P	8.03	1.73	1.61
13	AD	38	DG	O3'-P	8.03	1.73	1.61
48	E1	26	DG	O3'-P	8.03	1.73	1.61
91	HD	26	DG	O3'-P	8.03	1.73	1.61
97	I7	14	DG	O3'-P	8.03	1.73	1.61
126	L2	17	DG	O3'-P	8.03	1.73	1.61
173	PA	18	DG	O3'-P	8.03	1.73	1.61
187	R5	37	DG	O3'-P	8.03	1.73	1.61
218	UA	18	DG	O3'-P	8.03	1.73	1.61
221	V2	15	DG	O3'-P	8.03	1.73	1.61
233	W8	15	DG	O3'-P	8.03	1.73	1.61
235	WD	12	DG	O3'-P	8.03	1.73	1.61
3	A3	10	DG	O3'-P	8.03	1.73	1.61
5	A5	19	DG	O3'-P	8.03	1.73	1.61
11	AB	3822	DG	O3'-P	8.03	1.73	1.61
1	A1	29	DG	O3'-P	8.03	1.73	1.61
11	AB	29	DG	O3'-P	8.03	1.73	1.61
11	AB	3544	DG	O3'-P	8.03	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4021	DG	O3'-P	8.03	1.73	1.61
11	AB	340	DG	O3'-P	8.03	1.73	1.61
11	AB	1188	DG	O3'-P	8.03	1.73	1.61
11	AB	5434	DG	O3'-P	8.03	1.73	1.61
11	AB	6115	DG	O3'-P	8.03	1.73	1.61
11	AB	6568	DG	O3'-P	8.03	1.73	1.61
11	AB	6874	DG	O3'-P	8.03	1.73	1.61
11	AB	7078	DG	O3'-P	8.03	1.73	1.61
11	AB	7136	DG	O3'-P	8.03	1.73	1.61
47	DD	34	DG	O3'-P	8.03	1.73	1.61
101	IC	13	DG	O3'-P	8.03	1.73	1.61
102	ID	17	DG	O3'-P	8.03	1.73	1.61
146	N2	3	DG	O3'-P	8.03	1.73	1.61
148	N5	12	DG	O3'-P	8.03	1.73	1.61
166	P2	13	DG	O3'-P	8.03	1.73	1.61
11	AB	5150	DG	O3'-P	8.02	1.73	1.61
67	FA	6	DG	O3'-P	8.02	1.73	1.61
1	A1	53	DG	O3'-P	8.02	1.73	1.61
11	AB	64	DG	O3'-P	8.02	1.73	1.61
11	AB	183	DG	O3'-P	8.02	1.73	1.61
11	AB	1074	DG	O3'-P	8.02	1.73	1.61
11	AB	1380	DG	O3'-P	8.02	1.73	1.61
11	AB	1643	DG	O3'-P	8.02	1.73	1.61
11	AB	2206	DG	O3'-P	8.02	1.73	1.61
11	AB	2292	DG	O3'-P	8.02	1.73	1.61
11	AB	2356	DG	O3'-P	8.02	1.73	1.61
11	AB	4278	DG	O3'-P	8.02	1.73	1.61
11	AB	4284	DG	O3'-P	8.02	1.73	1.61
11	AB	5029	DG	O3'-P	8.02	1.73	1.61
11	AB	5124	DG	O3'-P	8.02	1.73	1.61
11	AB	5660	DG	O3'-P	8.02	1.73	1.61
11	AB	5802	DG	O3'-P	8.02	1.73	1.61
11	AB	6245	DG	O3'-P	8.02	1.73	1.61
11	AB	6439	DG	O3'-P	8.02	1.73	1.61
11	AB	6499	DG	O3'-P	8.02	1.73	1.61
11	AB	7197	DG	O3'-P	8.02	1.73	1.61
11	AB	6328	DG	O3'-P	8.02	1.73	1.61
11	AB	6672	DG	O3'-P	8.02	1.73	1.61
11	AB	6931	DG	O3'-P	8.02	1.73	1.61
11	AB	7091	DG	O3'-P	8.02	1.73	1.61
11	AB	7169	DG	O3'-P	8.02	1.73	1.61
28	C3	8	DG	O3'-P	8.02	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
56	EA	15	DG	O3'-P	8.02	1.73	1.61
64	F7	24	DG	O3'-P	8.02	1.73	1.61
83	H3	26	DG	O3'-P	8.02	1.73	1.61
102	ID	8	DG	O3'-P	8.02	1.73	1.61
137	M3	26	DG	O3'-P	8.02	1.73	1.61
190	R9	23	DG	O3'-P	8.02	1.73	1.61
94	I3	40	DG	O3'-P	8.02	1.73	1.61
94	I3	43	DG	O3'-P	8.02	1.73	1.61
153	NA	17	DG	O3'-P	8.02	1.73	1.61
194	S2	5	DG	O3'-P	8.02	1.73	1.61
207	T8	14	DG	O3'-P	8.02	1.73	1.61
2	A2	26	DG	O3'-P	8.02	1.73	1.61
11	AB	7102	DG	O3'-P	8.02	1.73	1.61
11	AB	430	DG	O3'-P	8.02	1.73	1.61
11	AB	2607	DG	O3'-P	8.02	1.73	1.61
11	AB	2818	DG	O3'-P	8.02	1.73	1.61
11	AB	3040	DG	O3'-P	8.02	1.73	1.61
11	AB	3502	DG	O3'-P	8.02	1.73	1.61
11	AB	4094	DG	O3'-P	8.02	1.73	1.61
11	AB	4290	DG	O3'-P	8.02	1.73	1.61
11	AB	5228	DG	O3'-P	8.02	1.73	1.61
11	AB	5710	DG	O3'-P	8.02	1.73	1.61
11	AB	6849	DG	O3'-P	8.02	1.73	1.61
56	EA	8	DG	O3'-P	8.02	1.73	1.61
108	J7	36	DG	O3'-P	8.02	1.73	1.61
116	K3	10	DG	O3'-P	8.02	1.73	1.61
134	LC	10	DG	O3'-P	8.02	1.73	1.61
223	V5	7	DG	O3'-P	8.02	1.73	1.61
117	K5	36	DG	O3'-P	8.02	1.73	1.61
161	O8	9	DG	O3'-P	8.02	1.73	1.61
211	TD	17	DG	O3'-P	8.02	1.73	1.61
214	U5	30	DG	O3'-P	8.02	1.73	1.61
232	W7	23	DG	O3'-P	8.02	1.73	1.61
11	AB	3723	DG	O3'-P	8.02	1.73	1.61
11	AB	3753	DG	O3'-P	8.02	1.73	1.61
11	AB	3766	DG	O3'-P	8.02	1.73	1.61
11	AB	6460	DG	O3'-P	8.02	1.73	1.61
11	AB	704	DG	O3'-P	8.02	1.73	1.61
11	AB	1552	DG	O3'-P	8.02	1.73	1.61
11	AB	2110	DG	O3'-P	8.02	1.73	1.61
11	AB	2379	DG	O3'-P	8.02	1.73	1.61
11	AB	2829	DG	O3'-P	8.02	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3069	DG	O3'-P	8.02	1.73	1.61
11	AB	3252	DG	O3'-P	8.02	1.73	1.61
11	AB	3960	DG	O3'-P	8.02	1.73	1.61
11	AB	4180	DG	O3'-P	8.02	1.73	1.61
11	AB	4551	DG	O3'-P	8.02	1.73	1.61
11	AB	4814	DG	O3'-P	8.02	1.73	1.61
11	AB	4904	DG	O3'-P	8.02	1.73	1.61
11	AB	5993	DG	O3'-P	8.02	1.73	1.61
11	AB	6142	DG	O3'-P	8.02	1.73	1.61
11	AB	6180	DG	O3'-P	8.02	1.73	1.61
11	AB	6717	DG	O3'-P	8.02	1.73	1.61
11	AB	6923	DG	O3'-P	8.02	1.73	1.61
11	AB	7038	DG	O3'-P	8.02	1.73	1.61
11	AB	7070	DG	O3'-P	8.02	1.73	1.61
19	B6	17	DG	O3'-P	8.02	1.73	1.61
31	C7	15	DG	O3'-P	8.02	1.73	1.61
49	E2	17	DG	O3'-P	8.02	1.73	1.61
218	UA	8	DG	O3'-P	8.02	1.73	1.61
11	AB	150	DG	O3'-P	8.01	1.73	1.61
11	AB	346	DG	O3'-P	8.01	1.73	1.61
11	AB	481	DG	O3'-P	8.01	1.73	1.61
11	AB	2962	DG	O3'-P	8.01	1.73	1.61
11	AB	3243	DG	O3'-P	8.01	1.73	1.61
11	AB	5192	DG	O3'-P	8.01	1.73	1.61
204	T3	31	DG	O3'-P	8.01	1.73	1.61
221	V2	7	DG	O3'-P	8.01	1.73	1.61
238	X9	26	DG	O3'-P	8.01	1.73	1.61
11	AB	220	DG	O3'-P	8.01	1.73	1.61
11	AB	666	DG	O3'-P	8.01	1.73	1.61
11	AB	1660	DG	O3'-P	8.01	1.73	1.61
11	AB	2139	DG	O3'-P	8.01	1.73	1.61
11	AB	6842	DG	O3'-P	8.01	1.73	1.61
21	B8	12	DG	O3'-P	8.01	1.73	1.61
84	H5	7	DG	O3'-P	8.01	1.73	1.61
122	KA	3	DG	O3'-P	8.01	1.73	1.61
3	A3	17	DG	O3'-P	8.01	1.73	1.61
5	A5	39	DG	O3'-P	8.01	1.73	1.61
11	AB	1724	DG	O3'-P	8.01	1.73	1.61
11	AB	1902	DG	O3'-P	8.01	1.73	1.61
11	AB	2418	DG	O3'-P	8.01	1.73	1.61
11	AB	3395	DG	O3'-P	8.01	1.73	1.61
11	AB	3419	DG	O3'-P	8.01	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3914	DG	O3'-P	8.01	1.73	1.61
11	AB	4485	DG	O3'-P	8.01	1.73	1.61
11	AB	4953	DG	O3'-P	8.01	1.73	1.61
47	DD	6	DG	O3'-P	8.01	1.73	1.61
56	EA	12	DG	O3'-P	8.01	1.73	1.61
11	AB	16	DG	O3'-P	8.01	1.73	1.61
11	AB	26	DG	O3'-P	8.01	1.73	1.61
11	AB	731	DG	O3'-P	8.01	1.73	1.61
11	AB	895	DG	O3'-P	8.01	1.73	1.61
11	AB	2301	DG	O3'-P	8.01	1.73	1.61
11	AB	4228	DG	O3'-P	8.01	1.73	1.61
11	AB	5325	DG	O3'-P	8.01	1.73	1.61
11	AB	5686	DG	O3'-P	8.01	1.73	1.61
11	AB	6557	DG	O3'-P	8.01	1.73	1.61
11	AB	7004	DG	O3'-P	8.01	1.73	1.61
11	AB	7180	DG	O3'-P	8.01	1.73	1.61
32	C8	42	DG	O3'-P	8.01	1.73	1.61
33	C9	20	DG	O3'-P	8.01	1.73	1.61
35	CC	22	DG	O3'-P	8.01	1.73	1.61
49	E2	34	DG	O3'-P	8.01	1.73	1.61
79	GC	18	DG	O3'-P	8.01	1.73	1.61
133	LA	13	DG	O3'-P	8.01	1.73	1.61
138	M5	32	DG	O3'-P	8.01	1.73	1.61
169	P6	12	DG	O3'-P	8.01	1.73	1.61
204	T3	44	DG	O3'-P	8.01	1.73	1.61
11	AB	5099	DG	O3'-P	8.01	1.73	1.61
11	AB	6449	DG	O3'-P	8.01	1.73	1.61
34	CA	17	DG	O3'-P	8.01	1.73	1.61
51	E5	8	DG	O3'-P	8.01	1.73	1.61
80	GD	16	DG	O3'-P	8.01	1.73	1.61
102	ID	26	DG	O3'-P	8.01	1.73	1.61
128	L5	4	DG	O3'-P	8.01	1.73	1.61
182	QA	9	DG	O3'-P	8.01	1.73	1.61
204	T3	18	DG	O3'-P	8.01	1.73	1.61
11	AB	1648	DG	O3'-P	8.00	1.73	1.61
11	AB	2893	DG	O3'-P	8.00	1.73	1.61
11	AB	439	DG	O3'-P	8.00	1.73	1.61
11	AB	1144	DG	O3'-P	8.00	1.73	1.61
11	AB	1288	DG	O3'-P	8.00	1.73	1.61
11	AB	3361	DG	O3'-P	8.00	1.73	1.61
11	AB	3547	DG	O3'-P	8.00	1.73	1.61
11	AB	6611	DG	O3'-P	8.00	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6621	DG	O3'-P	8.00	1.73	1.61
11	AB	6992	DG	O3'-P	8.00	1.73	1.61
11	AB	7059	DG	O3'-P	8.00	1.73	1.61
97	I7	33	DG	O3'-P	8.00	1.73	1.61
113	JD	33	DG	O3'-P	8.00	1.73	1.61
121	K9	25	DG	O3'-P	8.00	1.73	1.61
142	M9	21	DG	O3'-P	8.00	1.73	1.61
11	AB	2239	DG	O3'-P	8.00	1.73	1.61
11	AB	2298	DG	O3'-P	8.00	1.73	1.61
11	AB	2401	DG	O3'-P	8.00	1.73	1.61
11	AB	2479	DG	O3'-P	8.00	1.73	1.61
11	AB	3689	DG	O3'-P	8.00	1.73	1.61
11	AB	3757	DG	O3'-P	8.00	1.73	1.61
11	AB	3925	DG	O3'-P	8.00	1.73	1.61
11	AB	6239	DG	O3'-P	8.00	1.73	1.61
14	B1	39	DG	O3'-P	8.00	1.73	1.61
76	G8	1	DG	O3'-P	8.00	1.73	1.61
134	LC	19	DG	O3'-P	8.00	1.73	1.61
144	MC	13	DG	O3'-P	8.00	1.73	1.61
11	AB	1593	DG	O3'-P	8.00	1.73	1.61
11	AB	2456	DG	O3'-P	8.00	1.73	1.61
11	AB	3155	DG	O3'-P	8.00	1.73	1.61
11	AB	4239	DG	O3'-P	8.00	1.73	1.61
11	AB	5503	DG	O3'-P	8.00	1.73	1.61
11	AB	6279	DG	O3'-P	8.00	1.73	1.61
11	AB	6521	DG	O3'-P	8.00	1.73	1.61
11	AB	6982	DG	O3'-P	8.00	1.73	1.61
53	E7	20	DG	O3'-P	8.00	1.73	1.61
69	FD	9	DG	O3'-P	8.00	1.73	1.61
108	J7	12	DG	O3'-P	8.00	1.73	1.61
115	K2	11	DG	O3'-P	8.00	1.73	1.61
11	AB	460	DG	O3'-P	8.00	1.73	1.61
11	AB	874	DG	O3'-P	8.00	1.73	1.61
11	AB	3476	DG	O3'-P	8.00	1.73	1.61
11	AB	4068	DG	O3'-P	8.00	1.73	1.61
11	AB	6780	DG	O3'-P	8.00	1.73	1.61
22	B9	9	DG	O3'-P	8.00	1.73	1.61
67	FA	15	DG	O3'-P	8.00	1.73	1.61
196	S5	29	DG	O3'-P	8.00	1.73	1.61
11	AB	476	DG	O3'-P	8.00	1.73	1.61
41	D6	33	DG	O3'-P	8.00	1.73	1.61
84	H5	3	DG	O3'-P	8.00	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
99	I9	14	DG	O3'-P	8.00	1.73	1.61
148	N5	7	DG	O3'-P	8.00	1.73	1.61
178	Q5	30	DG	O3'-P	8.00	1.73	1.61
231	W5	8	DG	O3'-P	8.00	1.73	1.61
11	AB	261	DG	O3'-P	7.99	1.73	1.61
11	AB	1391	DG	O3'-P	7.99	1.73	1.61
11	AB	3430	DG	O3'-P	7.99	1.73	1.61
11	AB	3478	DG	O3'-P	7.99	1.73	1.61
11	AB	4661	DG	O3'-P	7.99	1.73	1.61
11	AB	5208	DG	O3'-P	7.99	1.73	1.61
29	C5	33	DG	O3'-P	7.99	1.73	1.61
29	C5	40	DG	O3'-P	7.99	1.73	1.61
119	K7	29	DG	O3'-P	7.99	1.73	1.61
182	QA	24	DG	O3'-P	7.99	1.73	1.61
218	UA	16	DG	O3'-P	7.99	1.73	1.61
97	I7	26	DG	O3'-P	7.99	1.73	1.61
5	A5	25	DG	O3'-P	7.99	1.73	1.61
11	AB	1138	DG	O3'-P	7.99	1.73	1.61
11	AB	1685	DG	O3'-P	7.99	1.73	1.61
11	AB	3310	DG	O3'-P	7.99	1.73	1.61
11	AB	5068	DG	O3'-P	7.99	1.73	1.61
11	AB	6765	DG	O3'-P	7.99	1.73	1.61
11	AB	7040	DG	O3'-P	7.99	1.73	1.61
11	AB	7129	DG	O3'-P	7.99	1.73	1.61
44	D9	7	DG	O3'-P	7.99	1.73	1.61
68	FC	11	DG	O3'-P	7.99	1.73	1.61
72	G3	20	DG	O3'-P	7.99	1.73	1.61
98	I8	39	DG	O3'-P	7.99	1.73	1.61
166	P2	6	DG	O3'-P	7.99	1.73	1.61
168	P5	10	DG	O3'-P	7.99	1.73	1.61
8	A8	7	DG	O3'-P	7.99	1.73	1.61
11	AB	916	DG	O3'-P	7.99	1.73	1.61
11	AB	925	DG	O3'-P	7.99	1.73	1.61
11	AB	2096	DG	O3'-P	7.99	1.73	1.61
11	AB	2235	DG	O3'-P	7.99	1.73	1.61
11	AB	3097	DG	O3'-P	7.99	1.73	1.61
11	AB	3314	DG	O3'-P	7.99	1.73	1.61
11	AB	4753	DG	O3'-P	7.99	1.73	1.61
11	AB	4993	DG	O3'-P	7.99	1.73	1.61
11	AB	5914	DG	O3'-P	7.99	1.73	1.61
11	AB	6270	DG	O3'-P	7.99	1.73	1.61
31	C7	13	DG	O3'-P	7.99	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
58	ED	37	DG	O3'-P	7.99	1.73	1.61
145	MD	46	DG	O3'-P	7.99	1.73	1.61
152	N9	4	DG	O3'-P	7.99	1.73	1.61
160	O7	8	DG	O3'-P	7.99	1.73	1.61
164	OC	26	DG	O3'-P	7.99	1.73	1.61
182	QA	6	DG	O3'-P	7.99	1.73	1.61
216	U8	5	DG	O3'-P	7.99	1.73	1.61
230	W3	13	DG	O3'-P	7.99	1.73	1.61
11	AB	1481	DG	O3'-P	7.99	1.73	1.61
160	O7	43	DG	O3'-P	7.99	1.73	1.61
5	A5	41	DG	O3'-P	7.99	1.73	1.61
11	AB	412	DG	O3'-P	7.99	1.73	1.61
11	AB	880	DG	O3'-P	7.99	1.73	1.61
11	AB	955	DG	O3'-P	7.99	1.73	1.61
11	AB	1697	DG	O3'-P	7.99	1.73	1.61
11	AB	2334	DG	O3'-P	7.99	1.73	1.61
11	AB	3232	DG	O3'-P	7.99	1.73	1.61
11	AB	5448	DG	O3'-P	7.99	1.73	1.61
35	CC	28	DG	O3'-P	7.99	1.73	1.61
48	E1	21	DG	O3'-P	7.99	1.73	1.61
84	H5	14	DG	O3'-P	7.99	1.73	1.61
133	LA	3	DG	O3'-P	7.99	1.73	1.61
161	O8	23	DG	O3'-P	7.99	1.73	1.61
179	Q7	13	DG	O3'-P	7.99	1.73	1.61
194	S2	25	DG	O3'-P	7.99	1.73	1.61
11	AB	2341	DG	O3'-P	7.98	1.73	1.61
11	AB	2944	DG	O3'-P	7.98	1.73	1.61
11	AB	3525	DG	O3'-P	7.98	1.73	1.61
11	AB	3611	DG	O3'-P	7.98	1.73	1.61
11	AB	4745	DG	O3'-P	7.98	1.73	1.61
11	AB	6019	DG	O3'-P	7.98	1.73	1.61
11	AB	6857	DG	O3'-P	7.98	1.73	1.61
45	DA	9	DG	O3'-P	7.98	1.73	1.61
79	GC	21	DG	O3'-P	7.98	1.73	1.61
161	O8	36	DG	O3'-P	7.98	1.73	1.61
207	T8	9	DG	O3'-P	7.98	1.73	1.61
215	U7	14	DG	O3'-P	7.98	1.73	1.61
5	A5	9	DG	O3'-P	7.98	1.73	1.61
11	AB	333	DG	O3'-P	7.98	1.73	1.61
11	AB	760	DG	O3'-P	7.98	1.73	1.61
11	AB	6573	DG	O3'-P	7.98	1.73	1.61
11	AB	6724	DG	O3'-P	7.98	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
149	N6	21	DG	O3'-P	7.98	1.73	1.61
149	N6	36	DG	O3'-P	7.98	1.73	1.61
168	P5	15	DG	O3'-P	7.98	1.73	1.61
187	R5	23	DG	O3'-P	7.98	1.73	1.61
11	AB	1929	DG	O3'-P	7.98	1.73	1.61
11	AB	3629	DG	O3'-P	7.98	1.73	1.61
11	AB	7032	DG	O3'-P	7.98	1.73	1.61
72	G3	26	DG	O3'-P	7.98	1.73	1.61
85	H6	31	DG	O3'-P	7.98	1.73	1.61
93	I2	38	DG	O3'-P	7.98	1.73	1.61
95	I5	18	DG	O3'-P	7.98	1.73	1.61
96	I6	5	DG	O3'-P	7.98	1.73	1.61
101	IC	25	DG	O3'-P	7.98	1.73	1.61
131	L8	27	DG	O3'-P	7.98	1.73	1.61
234	W9	1	DG	O3'-P	7.98	1.73	1.61
11	AB	2734	DG	O3'-P	7.98	1.73	1.61
11	AB	4743	DG	O3'-P	7.98	1.73	1.61
11	AB	5924	DG	O3'-P	7.98	1.73	1.61
13	AD	11	DG	O3'-P	7.98	1.73	1.61
11	AB	824	DG	O3'-P	7.98	1.73	1.61
11	AB	1677	DG	O3'-P	7.98	1.73	1.61
11	AB	2595	DG	O3'-P	7.98	1.73	1.61
11	AB	3277	DG	O3'-P	7.98	1.73	1.61
11	AB	6422	DG	O3'-P	7.98	1.73	1.61
11	AB	6715	DG	O3'-P	7.98	1.73	1.61
21	B8	26	DG	O3'-P	7.98	1.73	1.61
22	B9	34	DG	O3'-P	7.98	1.73	1.61
42	D7	9	DG	O3'-P	7.98	1.73	1.61
152	N9	45	DG	O3'-P	7.98	1.73	1.61
166	P2	22	DG	O3'-P	7.98	1.73	1.61
238	X9	37	DG	O3'-P	7.98	1.73	1.61
11	AB	310	DG	O3'-P	7.98	1.73	1.61
11	AB	1853	DG	O3'-P	7.98	1.73	1.61
11	AB	2526	DG	O3'-P	7.98	1.73	1.61
11	AB	4482	DG	O3'-P	7.98	1.73	1.61
11	AB	6937	DG	O3'-P	7.98	1.73	1.61
73	G5	22	DG	O3'-P	7.98	1.73	1.61
158	O5	7	DG	O3'-P	7.98	1.73	1.61
219	UC	18	DG	O3'-P	7.98	1.73	1.61
227	VA	24	DG	O3'-P	7.98	1.73	1.61
11	AB	714	DG	O3'-P	7.97	1.73	1.61
11	AB	1114	DG	O3'-P	7.97	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2656	DG	O3'-P	7.97	1.73	1.61
11	AB	3824	DG	O3'-P	7.97	1.73	1.61
11	AB	3890	DG	O3'-P	7.97	1.73	1.61
11	AB	7019	DG	O3'-P	7.97	1.73	1.61
22	B9	17	DG	O3'-P	7.97	1.73	1.61
78	GA	8	DG	O3'-P	7.97	1.73	1.61
161	O8	57	DG	O3'-P	7.97	1.73	1.61
4	A4	25	DG	O3'-P	7.97	1.73	1.61
6	A6	23	DG	O3'-P	7.97	1.73	1.61
11	AB	751	DG	O3'-P	7.97	1.73	1.61
11	AB	871	DG	O3'-P	7.97	1.73	1.61
11	AB	1825	DG	O3'-P	7.97	1.73	1.61
11	AB	2173	DG	O3'-P	7.97	1.73	1.61
11	AB	3181	DG	O3'-P	7.97	1.73	1.61
11	AB	3966	DG	O3'-P	7.97	1.73	1.61
11	AB	4315	DG	O3'-P	7.97	1.73	1.61
11	AB	5279	DG	O3'-P	7.97	1.73	1.61
11	AB	6653	DG	O3'-P	7.97	1.73	1.61
42	D7	4	DG	O3'-P	7.97	1.73	1.61
144	MC	10	DG	O3'-P	7.97	1.73	1.61
145	MD	15	DG	O3'-P	7.97	1.73	1.61
153	NA	7	DG	O3'-P	7.97	1.73	1.61
188	R7	3	DG	O3'-P	7.97	1.73	1.61
11	AB	3677	DG	O3'-P	7.97	1.73	1.61
33	C9	14	DG	O3'-P	7.97	1.73	1.61
70	G1	16	DG	O3'-P	7.97	1.73	1.61
100	IA	6	DG	O3'-P	7.97	1.73	1.61
102	ID	32	DG	O3'-P	7.97	1.73	1.61
11	AB	1470	DG	O3'-P	7.97	1.73	1.61
11	AB	5179	DG	O3'-P	7.97	1.73	1.61
207	T8	7	DG	O3'-P	7.97	1.73	1.61
11	AB	330	DG	O3'-P	7.97	1.73	1.61
11	AB	1275	DG	O3'-P	7.97	1.73	1.61
11	AB	1433	DG	O3'-P	7.97	1.73	1.61
11	AB	2022	DG	O3'-P	7.97	1.73	1.61
11	AB	3044	DG	O3'-P	7.97	1.73	1.61
11	AB	4112	DG	O3'-P	7.97	1.73	1.61
69	FD	26	DG	O3'-P	7.97	1.73	1.61
82	H2	36	DG	O3'-P	7.97	1.73	1.61
203	T2	14	DG	O3'-P	7.97	1.73	1.61
231	W5	18	DG	O3'-P	7.97	1.73	1.61
11	AB	38	DG	O3'-P	7.96	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2533	DG	O3'-P	7.96	1.73	1.61
11	AB	3163	DG	O3'-P	7.96	1.73	1.61
11	AB	6431	DG	O3'-P	7.96	1.73	1.61
64	F7	15	DG	O3'-P	7.96	1.73	1.61
172	P9	15	DG	O3'-P	7.96	1.73	1.61
11	AB	3409	DG	O3'-P	7.96	1.73	1.61
11	AB	4197	DG	O3'-P	7.96	1.73	1.61
11	AB	6434	DG	O3'-P	7.96	1.73	1.61
11	AB	6878	DG	O3'-P	7.96	1.73	1.61
11	AB	9	DG	O3'-P	7.96	1.73	1.61
11	AB	213	DG	O3'-P	7.96	1.73	1.61
11	AB	1418	DG	O3'-P	7.96	1.73	1.61
11	AB	3235	DG	O3'-P	7.96	1.73	1.61
11	AB	3466	DG	O3'-P	7.96	1.73	1.61
11	AB	4042	DG	O3'-P	7.96	1.73	1.61
11	AB	6518	DG	O3'-P	7.96	1.73	1.61
11	AB	4834	DG	O3'-P	7.96	1.73	1.61
194	S2	18	DG	O3'-P	7.96	1.73	1.61
11	AB	1257	DG	O3'-P	7.96	1.73	1.61
11	AB	1315	DG	O3'-P	7.96	1.73	1.61
11	AB	2604	DG	O3'-P	7.96	1.73	1.61
11	AB	4685	DG	O3'-P	7.96	1.73	1.61
11	AB	5048	DG	O3'-P	7.96	1.73	1.61
11	AB	5346	DG	O3'-P	7.96	1.73	1.61
11	AB	6775	DG	O3'-P	7.96	1.73	1.61
51	E5	16	DG	O3'-P	7.96	1.73	1.61
96	I6	10	DG	O3'-P	7.96	1.73	1.61
11	AB	1984	DG	O3'-P	7.96	1.73	1.61
11	AB	3247	DG	O3'-P	7.96	1.73	1.61
11	AB	5382	DG	O3'-P	7.96	1.73	1.61
24	BC	34	DG	O3'-P	7.96	1.73	1.61
182	QA	11	DG	O3'-P	7.96	1.73	1.61
223	V5	3	DG	O3'-P	7.96	1.73	1.61
228	VC	9	DG	O3'-P	7.96	1.73	1.61
23	BA	5	DG	O3'-P	7.96	1.73	1.61
30	C6	3	DG	O3'-P	7.96	1.73	1.61
64	F7	20	DG	O3'-P	7.96	1.73	1.61
11	AB	409	DG	O3'-P	7.95	1.73	1.61
11	AB	952	DG	O3'-P	7.95	1.73	1.61
11	AB	1443	DG	O3'-P	7.95	1.73	1.61
11	AB	4332	DG	O3'-P	7.95	1.73	1.61
11	AB	5464	DG	O3'-P	7.95	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5837	DG	O3'-P	7.95	1.73	1.61
11	AB	6912	DG	O3'-P	7.95	1.73	1.61
30	C6	33	DG	O3'-P	7.95	1.73	1.61
35	CC	18	DG	O3'-P	7.95	1.73	1.61
11	AB	1153	DG	O3'-P	7.95	1.73	1.61
11	AB	3743	DG	O3'-P	7.95	1.73	1.61
74	G6	33	DG	O3'-P	7.95	1.73	1.61
163	OA	12	DG	O3'-P	7.95	1.73	1.61
1	A1	4	DG	O3'-P	7.95	1.73	1.61
11	AB	1489	DG	O3'-P	7.95	1.73	1.61
11	AB	3307	DG	O3'-P	7.95	1.73	1.61
11	AB	3600	DG	O3'-P	7.95	1.73	1.61
11	AB	3739	DG	O3'-P	7.95	1.73	1.61
11	AB	3842	DG	O3'-P	7.95	1.73	1.61
11	AB	5413	DG	O3'-P	7.95	1.73	1.61
11	AB	5893	DG	O3'-P	7.95	1.73	1.61
63	F6	17	DG	O3'-P	7.95	1.73	1.61
11	AB	445	DG	O3'-P	7.95	1.73	1.61
11	AB	2038	DG	O3'-P	7.95	1.73	1.61
11	AB	3866	DG	O3'-P	7.95	1.73	1.61
11	AB	2951	DG	O3'-P	7.95	1.73	1.61
11	AB	4884	DG	O3'-P	7.95	1.73	1.61
11	AB	5093	DG	O3'-P	7.95	1.73	1.61
11	AB	6581	DG	O3'-P	7.95	1.73	1.61
56	EA	10	DG	O3'-P	7.95	1.73	1.61
176	Q2	15	DG	O3'-P	7.95	1.73	1.61
11	AB	1090	DG	O3'-P	7.94	1.73	1.61
11	AB	2766	DG	O3'-P	7.94	1.73	1.61
152	N9	41	DG	O3'-P	7.94	1.73	1.61
11	AB	3458	DG	O3'-P	7.94	1.73	1.61
156	O2	59	DG	O3'-P	7.94	1.73	1.61
11	AB	3703	DG	O3'-P	7.93	1.73	1.61
11	AB	2157	DG	O3'-P	7.93	1.73	1.61
11	AB	6291	DG	O3'-P	7.93	1.73	1.61
74	G6	9	DG	O3'-P	7.93	1.73	1.61
11	AB	805	DG	O3'-P	7.92	1.73	1.61
213	U3	6	DG	O3'-P	7.92	1.73	1.61
11	AB	375	DG	O3'-P	7.92	1.73	1.61
11	AB	4604	DG	O3'-P	7.92	1.73	1.61
95	I5	34	DG	O3'-P	7.92	1.73	1.61
178	Q5	24	DG	O3'-P	7.92	1.73	1.61
55	E9	43	DG	O3'-P	7.92	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6137	DG	O3'-P	7.92	1.73	1.61
125	L1	45	DG	O3'-P	7.92	1.73	1.61
31	C7	3	DG	O3'-P	7.92	1.73	1.61
161	O8	6	DG	O3'-P	7.91	1.73	1.61
11	AB	289	DG	O3'-P	7.91	1.73	1.61
223	V5	32	DG	O3'-P	7.91	1.73	1.61
11	AB	1450	DG	O3'-P	7.91	1.73	1.61
11	AB	2956	DG	O3'-P	7.91	1.73	1.61
11	AB	2516	DG	O3'-P	7.90	1.73	1.61
11	AB	4868	DG	O3'-P	7.90	1.73	1.61
226	V9	16	DG	O3'-P	7.90	1.73	1.61
11	AB	801	DG	O3'-P	7.89	1.73	1.61
232	W7	12	DG	O3'-P	7.89	1.73	1.61
11	AB	1198	DG	O3'-P	7.89	1.73	1.61

All (19511) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1971	DG	O3'-P-O5'	-13.99	83.01	104.00
143	MA	14	DG	O3'-P-O5'	-13.99	83.02	104.00
11	AB	4732	DG	O3'-P-O5'	-13.98	83.03	104.00
11	AB	4951	DG	O3'-P-O5'	-13.98	83.03	104.00
11	AB	5070	DG	O3'-P-O5'	-13.98	83.03	104.00
11	AB	5641	DG	O3'-P-O5'	-13.98	83.03	104.00
11	AB	1406	DG	O3'-P-O5'	-13.97	83.04	104.00
11	AB	2345	DG	O3'-P-O5'	-13.97	83.04	104.00
93	I2	30	DG	O3'-P-O5'	-13.97	83.04	104.00
203	T2	10	DG	O3'-P-O5'	-13.97	83.04	104.00
55	E9	18	DG	O3'-P-O5'	-13.97	83.04	104.00
11	AB	3514	DG	O3'-P-O5'	-13.97	83.05	104.00
11	AB	6474	DG	O3'-P-O5'	-13.97	83.05	104.00
188	R7	29	DG	O3'-P-O5'	-13.97	83.04	104.00
11	AB	2339	DG	O3'-P-O5'	-13.97	83.05	104.00
11	AB	5215	DG	O3'-P-O5'	-13.97	83.05	104.00
11	AB	1077	DG	O3'-P-O5'	-13.97	83.05	104.00
11	AB	3473	DG	O3'-P-O5'	-13.97	83.05	104.00
37	D1	17	DG	O3'-P-O5'	-13.97	83.05	104.00
106	J5	27	DG	O3'-P-O5'	-13.97	83.05	104.00
196	S5	13	DG	O3'-P-O5'	-13.97	83.05	104.00
11	AB	928	DG	O3'-P-O5'	-13.97	83.05	104.00
166	P2	28	DG	O3'-P-O5'	-13.97	83.05	104.00
11	AB	676	DG	O3'-P-O5'	-13.96	83.06	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	781	DG	O3'-P-O5'	-13.96	83.05	104.00
11	AB	4141	DG	O3'-P-O5'	-13.97	83.05	104.00
69	FD	46	DG	O3'-P-O5'	-13.97	83.05	104.00
11	AB	7217	DG	O3'-P-O5'	-13.96	83.05	104.00
61	F3	6	DG	O3'-P-O5'	-13.96	83.05	104.00
70	G1	6	DG	O3'-P-O5'	-13.97	83.05	104.00
63	F6	11	DG	O3'-P-O5'	-13.96	83.05	104.00
85	H6	17	DG	O3'-P-O5'	-13.96	83.05	104.00
185	R2	15	DG	O3'-P-O5'	-13.96	83.05	104.00
211	TD	39	DG	O3'-P-O5'	-13.96	83.05	104.00
233	W8	18	DG	O3'-P-O5'	-13.96	83.05	104.00
11	AB	931	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	1535	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	5884	DG	O3'-P-O5'	-13.96	83.06	104.00
32	C8	4	DG	O3'-P-O5'	-13.96	83.06	104.00
119	K7	39	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	228	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	1981	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	4625	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	5301	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	5782	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	6349	DG	O3'-P-O5'	-13.96	83.06	104.00
92	I1	23	DG	O3'-P-O5'	-13.96	83.06	104.00
110	J9	15	DG	O3'-P-O5'	-13.96	83.06	104.00
204	T3	20	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	1161	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	1459	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	3461	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	2263	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	3953	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	4538	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	4996	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	3998	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	5749	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	6050	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	7231	DG	O3'-P-O5'	-13.96	83.06	104.00
46	DC	20	DG	O3'-P-O5'	-13.96	83.06	104.00
57	EC	14	DG	O3'-P-O5'	-13.96	83.06	104.00
90	HC	8	DG	O3'-P-O5'	-13.96	83.06	104.00
109	J8	12	DG	O3'-P-O5'	-13.96	83.06	104.00
156	O2	11	DG	O3'-P-O5'	-13.96	83.06	104.00
175	PD	5	DG	O3'-P-O5'	-13.96	83.06	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
179	Q7	22	DG	O3'-P-O5'	-13.96	83.06	104.00
223	V5	37	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	204	DG	O3'-P-O5'	-13.96	83.07	104.00
11	AB	415	DG	O3'-P-O5'	-13.96	83.07	104.00
11	AB	3442	DG	O3'-P-O5'	-13.96	83.07	104.00
11	AB	4004	DG	O3'-P-O5'	-13.96	83.07	104.00
11	AB	999	DG	O3'-P-O5'	-13.95	83.07	104.00
11	AB	3568	DG	O3'-P-O5'	-13.96	83.07	104.00
11	AB	3775	DG	O3'-P-O5'	-13.96	83.07	104.00
11	AB	3986	DG	O3'-P-O5'	-13.96	83.07	104.00
11	AB	4928	DG	O3'-P-O5'	-13.96	83.06	104.00
11	AB	4998	DG	O3'-P-O5'	-13.96	83.07	104.00
91	HD	17	DG	O3'-P-O5'	-13.96	83.07	104.00
143	MA	30	DG	O3'-P-O5'	-13.96	83.07	104.00
11	AB	4608	DG	O3'-P-O5'	-13.95	83.07	104.00
24	BC	8	DG	O3'-P-O5'	-13.95	83.07	104.00
101	IC	19	DG	O3'-P-O5'	-13.96	83.07	104.00
110	J9	20	DG	O3'-P-O5'	-13.96	83.07	104.00
145	MD	13	DG	O3'-P-O5'	-13.96	83.07	104.00
164	OC	11	DG	O3'-P-O5'	-13.96	83.07	104.00
166	P2	11	DG	O3'-P-O5'	-13.96	83.07	104.00
191	RA	9	DG	O3'-P-O5'	-13.95	83.07	104.00
201	SC	5	DG	O3'-P-O5'	-13.95	83.07	104.00
11	AB	4133	DG	O3'-P-O5'	-13.95	83.07	104.00
11	AB	6505	DG	O3'-P-O5'	-13.95	83.07	104.00
45	DA	14	DG	O3'-P-O5'	-13.95	83.07	104.00
11	AB	321	DG	O3'-P-O5'	-13.95	83.07	104.00
11	AB	738	DG	O3'-P-O5'	-13.95	83.07	104.00
11	AB	1026	DG	O3'-P-O5'	-13.95	83.07	104.00
11	AB	2184	DG	O3'-P-O5'	-13.95	83.07	104.00
11	AB	2668	DG	O3'-P-O5'	-13.95	83.07	104.00
11	AB	3316	DG	O3'-P-O5'	-13.95	83.07	104.00
11	AB	3449	DG	O3'-P-O5'	-13.95	83.07	104.00
32	C8	39	DG	O3'-P-O5'	-13.95	83.07	104.00
94	I3	20	DG	O3'-P-O5'	-13.95	83.07	104.00
11	AB	4249	DG	O3'-P-O5'	-13.95	83.07	104.00
11	AB	4622	DG	O3'-P-O5'	-13.95	83.07	104.00
11	AB	5058	DG	O3'-P-O5'	-13.95	83.07	104.00
11	AB	5864	DG	O3'-P-O5'	-13.95	83.07	104.00
11	AB	6090	DG	O3'-P-O5'	-13.95	83.07	104.00
11	AB	7208	DG	O3'-P-O5'	-13.95	83.07	104.00
32	C8	28	DG	O3'-P-O5'	-13.95	83.07	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	E1	12	DG	O3'-P-O5'	-13.95	83.07	104.00
83	H3	37	DG	O3'-P-O5'	-13.95	83.07	104.00
104	J2	3	DG	O3'-P-O5'	-13.95	83.07	104.00
209	TA	16	DG	O3'-P-O5'	-13.95	83.07	104.00
113	JD	12	DG	O3'-P-O5'	-13.95	83.07	104.00
117	K5	3	DG	O3'-P-O5'	-13.95	83.07	104.00
169	P6	5	DG	O3'-P-O5'	-13.95	83.07	104.00
214	U5	17	DG	O3'-P-O5'	-13.95	83.07	104.00
231	W5	13	DG	O3'-P-O5'	-13.95	83.07	104.00
11	AB	3293	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	1060	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	1855	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	2524	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	4074	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	6964	DG	O3'-P-O5'	-13.95	83.08	104.00
13	AD	43	DG	O3'-P-O5'	-13.95	83.08	104.00
65	F8	11	DG	O3'-P-O5'	-13.95	83.08	104.00
205	T5	2	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	3456	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	3697	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	4583	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	4850	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	5521	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	6730	DG	O3'-P-O5'	-13.95	83.08	104.00
14	B1	33	DG	O3'-P-O5'	-13.95	83.08	104.00
22	B9	4	DG	O3'-P-O5'	-13.95	83.08	104.00
27	C2	20	DG	O3'-P-O5'	-13.95	83.08	104.00
30	C6	25	DG	O3'-P-O5'	-13.95	83.08	104.00
32	C8	25	DG	O3'-P-O5'	-13.95	83.08	104.00
52	E6	30	DG	O3'-P-O5'	-13.95	83.08	104.00
109	J8	2	DG	O3'-P-O5'	-13.95	83.08	104.00
227	VA	7	DG	O3'-P-O5'	-13.95	83.08	104.00
174	PC	23	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	856	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	2996	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	4428	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	4925	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	5113	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	7160	DG	O3'-P-O5'	-13.95	83.08	104.00
2	A2	11	DG	O3'-P-O5'	-13.94	83.08	104.00
11	AB	993	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	1126	DG	O3'-P-O5'	-13.95	83.08	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3168	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	3566	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	4076	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	4466	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	1429	DG	O3'-P-O5'	-13.94	83.08	104.00
11	AB	3806	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	4131	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	5468	DG	O3'-P-O5'	-13.95	83.08	104.00
12	AC	18	DG	O3'-P-O5'	-13.95	83.08	104.00
93	I2	45	DG	O3'-P-O5'	-13.95	83.08	104.00
124	KD	6	DG	O3'-P-O5'	-13.95	83.08	104.00
227	VA	22	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	3811	DG	O3'-P-O5'	-13.94	83.08	104.00
11	AB	4493	DG	O3'-P-O5'	-13.94	83.08	104.00
11	AB	4865	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	4959	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	5695	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	6298	DG	O3'-P-O5'	-13.94	83.08	104.00
11	AB	6752	DG	O3'-P-O5'	-13.95	83.08	104.00
11	AB	6997	DG	O3'-P-O5'	-13.95	83.08	104.00
15	B2	20	DG	O3'-P-O5'	-13.95	83.08	104.00
37	D1	36	DG	O3'-P-O5'	-13.95	83.08	104.00
54	E8	28	DG	O3'-P-O5'	-13.95	83.08	104.00
99	I9	25	DG	O3'-P-O5'	-13.95	83.08	104.00
143	MA	45	DG	O3'-P-O5'	-13.95	83.08	104.00
113	JD	30	DG	O3'-P-O5'	-13.94	83.08	104.00
114	K1	16	DG	O3'-P-O5'	-13.95	83.08	104.00
143	MA	11	DG	O3'-P-O5'	-13.94	83.08	104.00
149	N6	50	DG	O3'-P-O5'	-13.95	83.08	104.00
160	O7	1	DG	O3'-P-O5'	-13.95	83.08	104.00
169	P6	10	DG	O3'-P-O5'	-13.95	83.08	104.00
186	R3	19	DG	O3'-P-O5'	-13.94	83.08	104.00
217	U9	7	DG	O3'-P-O5'	-13.94	83.08	104.00
11	AB	913	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	1040	DG	O3'-P-O5'	-13.94	83.08	104.00
11	AB	1669	DG	O3'-P-O5'	-13.94	83.08	104.00
11	AB	2081	DG	O3'-P-O5'	-13.94	83.08	104.00
11	AB	2918	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	3214	DG	O3'-P-O5'	-13.94	83.08	104.00
11	AB	4107	DG	O3'-P-O5'	-13.94	83.09	104.00
74	G6	35	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	1011	DG	O3'-P-O5'	-13.94	83.09	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2296	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	4110	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	4139	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	4667	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	5636	DG	O3'-P-O5'	-13.94	83.09	104.00
109	J8	42	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	6386	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	6905	DG	O3'-P-O5'	-13.94	83.09	104.00
41	D6	3	DG	O3'-P-O5'	-13.94	83.09	104.00
147	N3	20	DG	O3'-P-O5'	-13.94	83.09	104.00
200	SA	26	DG	O3'-P-O5'	-13.94	83.08	104.00
220	UD	9	DG	O3'-P-O5'	-13.94	83.08	104.00
58	ED	29	DG	O3'-P-O5'	-13.94	83.09	104.00
61	F3	15	DG	O3'-P-O5'	-13.94	83.09	104.00
74	G6	29	DG	O3'-P-O5'	-13.94	83.09	104.00
82	H2	38	DG	O3'-P-O5'	-13.94	83.09	104.00
98	I8	25	DG	O3'-P-O5'	-13.94	83.09	104.00
103	J1	13	DG	O3'-P-O5'	-13.94	83.09	104.00
108	J7	20	DG	O3'-P-O5'	-13.94	83.09	104.00
115	K2	15	DG	O3'-P-O5'	-13.94	83.09	104.00
115	K2	17	DG	O3'-P-O5'	-13.94	83.09	104.00
150	N7	22	DG	O3'-P-O5'	-13.94	83.09	104.00
166	P2	9	DG	O3'-P-O5'	-13.94	83.09	104.00
188	R7	14	DG	O3'-P-O5'	-13.94	83.09	104.00
194	S2	29	DG	O3'-P-O5'	-13.94	83.09	104.00
206	T7	2	DG	O3'-P-O5'	-13.94	83.09	104.00
228	VC	12	DG	O3'-P-O5'	-13.94	83.09	104.00
238	X9	4	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	558	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	766	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	2018	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	4574	DG	O3'-P-O5'	-13.94	83.09	104.00
181	Q9	16	DG	O3'-P-O5'	-13.94	83.09	104.00
232	W7	19	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	833	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	862	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	1131	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	2851	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	1165	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	1521	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	4154	DG	O3'-P-O5'	-13.94	83.09	104.00
126	L2	45	DG	O3'-P-O5'	-13.94	83.09	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2326	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	2713	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	4083	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	4188	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	4145	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	4665	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	4757	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	4842	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	6130	DG	O3'-P-O5'	-13.94	83.09	104.00
109	J8	34	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	5242	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	5548	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	6211	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	6693	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	7241	DG	O3'-P-O5'	-13.94	83.09	104.00
47	DD	41	DG	O3'-P-O5'	-13.94	83.09	104.00
51	E5	11	DG	O3'-P-O5'	-13.94	83.09	104.00
77	G9	10	DG	O3'-P-O5'	-13.94	83.09	104.00
103	J1	24	DG	O3'-P-O5'	-13.94	83.09	104.00
110	J9	18	DG	O3'-P-O5'	-13.94	83.09	104.00
112	JC	2	DG	O3'-P-O5'	-13.94	83.09	104.00
122	KA	5	DG	O3'-P-O5'	-13.94	83.09	104.00
125	L1	55	DG	O3'-P-O5'	-13.94	83.09	104.00
127	L3	4	DG	O3'-P-O5'	-13.94	83.09	104.00
129	L6	23	DG	O3'-P-O5'	-13.94	83.09	104.00
139	M6	4	DG	O3'-P-O5'	-13.94	83.09	104.00
143	MA	43	DG	O3'-P-O5'	-13.94	83.09	104.00
149	N6	2	DG	O3'-P-O5'	-13.94	83.09	104.00
154	NC	30	DG	O3'-P-O5'	-13.94	83.09	104.00
195	S3	5	DG	O3'-P-O5'	-13.94	83.09	104.00
199	S9	20	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	642	DG	O3'-P-O5'	-13.94	83.10	104.00
11	AB	2035	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	5238	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	4071	DG	O3'-P-O5'	-13.94	83.10	104.00
11	AB	4532	DG	O3'-P-O5'	-13.94	83.10	104.00
11	AB	4590	DG	O3'-P-O5'	-13.94	83.10	104.00
11	AB	4600	DG	O3'-P-O5'	-13.94	83.10	104.00
11	AB	4971	DG	O3'-P-O5'	-13.94	83.10	104.00
11	AB	5253	DG	O3'-P-O5'	-13.94	83.10	104.00
11	AB	5323	DG	O3'-P-O5'	-13.94	83.09	104.00
11	AB	5391	DG	O3'-P-O5'	-13.94	83.10	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6413	DG	O3'-P-O5'	-13.94	83.10	104.00
11	AB	6463	DG	O3'-P-O5'	-13.94	83.10	104.00
11	AB	7214	DG	O3'-P-O5'	-13.94	83.10	104.00
44	D9	27	DG	O3'-P-O5'	-13.94	83.10	104.00
52	E6	16	DG	O3'-P-O5'	-13.94	83.10	104.00
101	IC	5	DG	O3'-P-O5'	-13.94	83.09	104.00
54	E8	26	DG	O3'-P-O5'	-13.94	83.10	104.00
69	FD	31	DG	O3'-P-O5'	-13.94	83.10	104.00
84	H5	20	DG	O3'-P-O5'	-13.94	83.10	104.00
94	I3	47	DG	O3'-P-O5'	-13.94	83.10	104.00
99	I9	10	DG	O3'-P-O5'	-13.94	83.10	104.00
109	J8	53	DG	O3'-P-O5'	-13.94	83.09	104.00
115	K2	9	DG	O3'-P-O5'	-13.94	83.09	104.00
119	K7	3	DG	O3'-P-O5'	-13.94	83.10	104.00
128	L5	10	DG	O3'-P-O5'	-13.94	83.10	104.00
192	RC	33	DG	O3'-P-O5'	-13.94	83.09	104.00
204	T3	1	DG	O3'-P-O5'	-13.94	83.09	104.00
216	U8	19	DG	O3'-P-O5'	-13.94	83.09	104.00
187	R5	18	DG	O3'-P-O5'	-13.94	83.10	104.00
206	T7	12	DG	O3'-P-O5'	-13.94	83.10	104.00
215	U7	11	DG	O3'-P-O5'	-13.94	83.10	104.00
11	AB	20	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	386	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	590	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	3917	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	4654	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	7190	DG	O3'-P-O5'	-13.93	83.10	104.00
88	H9	16	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	457	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	1095	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	1395	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	1703	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	1770	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	1914	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	2550	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	6042	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	6218	DG	O3'-P-O5'	-13.93	83.10	104.00
69	FD	2	DG	O3'-P-O5'	-13.93	83.10	104.00
187	R5	10	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	3769	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	4085	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	4525	DG	O3'-P-O5'	-13.93	83.10	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4689	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	5534	DG	O3'-P-O5'	-13.93	83.10	104.00
66	F9	7	DG	O3'-P-O5'	-13.93	83.10	104.00
72	G3	14	DG	O3'-P-O5'	-13.93	83.10	104.00
80	GD	21	DG	O3'-P-O5'	-13.93	83.10	104.00
112	JC	4	DG	O3'-P-O5'	-13.93	83.10	104.00
94	I3	55	DG	O3'-P-O5'	-13.93	83.10	104.00
147	N3	5	DG	O3'-P-O5'	-13.93	83.10	104.00
167	P3	9	DG	O3'-P-O5'	-13.93	83.10	104.00
172	P9	20	DG	O3'-P-O5'	-13.93	83.10	104.00
188	R7	8	DG	O3'-P-O5'	-13.93	83.10	104.00
192	RC	7	DG	O3'-P-O5'	-13.93	83.10	104.00
195	S3	2	DG	O3'-P-O5'	-13.93	83.10	104.00
195	S3	7	DG	O3'-P-O5'	-13.93	83.10	104.00
200	SA	12	DG	O3'-P-O5'	-13.93	83.10	104.00
213	U3	19	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	61	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	427	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	1146	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	1347	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	1706	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	4202	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	4854	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	5045	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	6400	DG	O3'-P-O5'	-13.93	83.10	104.00
106	J5	7	DG	O3'-P-O5'	-13.93	83.10	104.00
190	R9	28	DG	O3'-P-O5'	-13.93	83.10	104.00
190	R9	45	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	442	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	635	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	3491	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	4063	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	4400	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	5365	DG	O3'-P-O5'	-13.93	83.10	104.00
63	F6	9	DG	O3'-P-O5'	-13.93	83.11	104.00
142	M9	5	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	726	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	817	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	958	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	1092	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	1501	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	1848	DG	O3'-P-O5'	-13.93	83.11	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1863	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	1979	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	2169	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	2883	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	3414	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	3584	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	4572	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	6146	DG	O3'-P-O5'	-13.93	83.10	104.00
11	AB	6646	DG	O3'-P-O5'	-13.93	83.11	104.00
92	I1	17	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	4303	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	6168	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	6406	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	7050	DG	O3'-P-O5'	-13.93	83.11	104.00
13	AD	33	DG	O3'-P-O5'	-13.93	83.11	104.00
18	B5	8	DG	O3'-P-O5'	-13.93	83.11	104.00
115	K2	20	DG	O3'-P-O5'	-13.93	83.11	104.00
119	K7	27	DG	O3'-P-O5'	-13.93	83.11	104.00
37	D1	31	DG	O3'-P-O5'	-13.93	83.11	104.00
41	D6	19	DG	O3'-P-O5'	-13.93	83.11	104.00
52	E6	33	DG	O3'-P-O5'	-13.93	83.11	104.00
53	E7	11	DG	O3'-P-O5'	-13.93	83.11	104.00
86	H7	21	DG	O3'-P-O5'	-13.93	83.11	104.00
174	PC	7	DG	O3'-P-O5'	-13.93	83.11	104.00
187	R5	4	DG	O3'-P-O5'	-13.93	83.11	104.00
206	T7	9	DG	O3'-P-O5'	-13.93	83.10	104.00
206	T7	23	DG	O3'-P-O5'	-13.93	83.11	104.00
93	I2	25	DG	O3'-P-O5'	-13.93	83.11	104.00
123	KC	19	DG	O3'-P-O5'	-13.93	83.11	104.00
143	MA	9	DG	O3'-P-O5'	-13.93	83.11	104.00
145	MD	24	DG	O3'-P-O5'	-13.93	83.11	104.00
147	N3	25	DG	O3'-P-O5'	-13.93	83.11	104.00
158	O5	50	DG	O3'-P-O5'	-13.93	83.11	104.00
186	R3	6	DG	O3'-P-O5'	-13.93	83.11	104.00
194	S2	15	DG	O3'-P-O5'	-13.93	83.11	104.00
238	X9	53	DG	O3'-P-O5'	-13.93	83.11	104.00
118	K6	9	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	852	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	859	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	1798	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	2171	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	2273	DG	O3'-P-O5'	-13.93	83.11	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2538	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	3142	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	3555	DG	O3'-P-O5'	-13.93	83.11	104.00
13	AD	28	DG	O3'-P-O5'	-13.93	83.11	104.00
41	D6	5	DG	O3'-P-O5'	-13.93	83.11	104.00
82	H2	21	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	3779	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	4088	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	4127	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	4496	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	4515	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	4859	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	4920	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	5134	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	5176	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	5704	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	6064	DG	O3'-P-O5'	-13.93	83.11	104.00
27	C2	6	DG	O3'-P-O5'	-13.93	83.11	104.00
58	ED	7	DG	O3'-P-O5'	-13.93	83.11	104.00
62	F5	18	DG	O3'-P-O5'	-13.93	83.11	104.00
68	FC	17	DG	O3'-P-O5'	-13.93	83.11	104.00
76	G8	7	DG	O3'-P-O5'	-13.93	83.11	104.00
83	H3	5	DG	O3'-P-O5'	-13.93	83.11	104.00
85	H6	21	DG	O3'-P-O5'	-13.93	83.11	104.00
94	I3	37	DG	O3'-P-O5'	-13.93	83.11	104.00
88	H9	27	DG	O3'-P-O5'	-13.93	83.11	104.00
125	L1	25	DG	O3'-P-O5'	-13.93	83.11	104.00
136	M2	6	DG	O3'-P-O5'	-13.93	83.11	104.00
140	M7	13	DG	O3'-P-O5'	-13.93	83.11	104.00
182	QA	20	DG	O3'-P-O5'	-13.93	83.11	104.00
238	X9	49	DG	O3'-P-O5'	-13.93	83.11	104.00
140	M7	16	DG	O3'-P-O5'	-13.93	83.11	104.00
156	O2	45	DG	O3'-P-O5'	-13.93	83.11	104.00
159	O6	5	DG	O3'-P-O5'	-13.93	83.11	104.00
160	O7	13	DG	O3'-P-O5'	-13.93	83.11	104.00
168	P5	3	DG	O3'-P-O5'	-13.93	83.11	104.00
175	PD	17	DG	O3'-P-O5'	-13.93	83.11	104.00
178	Q5	5	DG	O3'-P-O5'	-13.93	83.11	104.00
197	S7	6	DG	O3'-P-O5'	-13.93	83.11	104.00
209	TA	33	DG	O3'-P-O5'	-13.93	83.11	104.00
11	AB	768	DG	O3'-P-O5'	-13.92	83.11	104.00
11	AB	1494	DG	O3'-P-O5'	-13.92	83.11	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1949	DG	O3'-P-O5'	-13.92	83.11	104.00
11	AB	6999	DG	O3'-P-O5'	-13.92	83.11	104.00
79	GC	12	DG	O3'-P-O5'	-13.92	83.11	104.00
147	N3	12	DG	O3'-P-O5'	-13.92	83.11	104.00
5	A5	23	DG	O3'-P-O5'	-13.92	83.12	104.00
6	A6	28	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	307	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	1559	DG	O3'-P-O5'	-13.92	83.11	104.00
11	AB	4048	DG	O3'-P-O5'	-13.92	83.11	104.00
11	AB	4105	DG	O3'-P-O5'	-13.92	83.11	104.00
11	AB	6821	DG	O3'-P-O5'	-13.92	83.11	104.00
35	CC	31	DG	O3'-P-O5'	-13.92	83.11	104.00
11	AB	2014	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	2556	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	3606	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	4297	DG	O3'-P-O5'	-13.92	83.11	104.00
11	AB	6492	DG	O3'-P-O5'	-13.92	83.11	104.00
11	AB	4175	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	4725	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	5010	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	5497	DG	O3'-P-O5'	-13.92	83.11	104.00
11	AB	5594	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	5824	DG	O3'-P-O5'	-13.92	83.11	104.00
11	AB	6734	DG	O3'-P-O5'	-13.92	83.11	104.00
11	AB	7235	DG	O3'-P-O5'	-13.92	83.12	104.00
24	BC	15	DG	O3'-P-O5'	-13.92	83.11	104.00
32	C8	8	DG	O3'-P-O5'	-13.92	83.12	104.00
39	D3	32	DG	O3'-P-O5'	-13.92	83.11	104.00
42	D7	19	DG	O3'-P-O5'	-13.92	83.12	104.00
43	D8	9	DG	O3'-P-O5'	-13.92	83.11	104.00
173	PA	36	DG	O3'-P-O5'	-13.92	83.11	104.00
47	DD	38	DG	O3'-P-O5'	-13.92	83.12	104.00
50	E3	4	DG	O3'-P-O5'	-13.92	83.12	104.00
54	E8	5	DG	O3'-P-O5'	-13.92	83.12	104.00
67	FA	18	DG	O3'-P-O5'	-13.92	83.11	104.00
68	FC	5	DG	O3'-P-O5'	-13.92	83.12	104.00
91	HD	19	DG	O3'-P-O5'	-13.92	83.12	104.00
99	I9	21	DG	O3'-P-O5'	-13.92	83.11	104.00
217	U9	21	DG	O3'-P-O5'	-13.92	83.11	104.00
134	LC	16	DG	O3'-P-O5'	-13.92	83.12	104.00
146	N2	22	DG	O3'-P-O5'	-13.92	83.12	104.00
152	N9	26	DG	O3'-P-O5'	-13.92	83.11	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
156	O2	29	DG	O3'-P-O5'	-13.92	83.11	104.00
163	OA	2	DG	O3'-P-O5'	-13.92	83.12	104.00
174	PC	26	DG	O3'-P-O5'	-13.92	83.12	104.00
204	T3	5	DG	O3'-P-O5'	-13.92	83.12	104.00
209	TA	12	DG	O3'-P-O5'	-13.92	83.11	104.00
225	V8	20	DG	O3'-P-O5'	-13.92	83.12	104.00
4	A4	11	DG	O3'-P-O5'	-13.92	83.12	104.00
6	A6	9	DG	O3'-P-O5'	-13.92	83.12	104.00
7	A7	15	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	90	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	5277	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	943	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	1613	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	3022	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	4025	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	4809	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	4947	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	5017	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	5866	DG	O3'-P-O5'	-13.92	83.12	104.00
151	N8	20	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	5907	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	6004	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	6933	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	7072	DG	O3'-P-O5'	-13.92	83.12	104.00
24	BC	39	DG	O3'-P-O5'	-13.92	83.12	104.00
32	C8	47	DG	O3'-P-O5'	-13.92	83.12	104.00
38	D2	14	DG	O3'-P-O5'	-13.92	83.12	104.00
109	J8	40	DG	O3'-P-O5'	-13.92	83.12	104.00
125	L1	12	DG	O3'-P-O5'	-13.92	83.12	104.00
132	L9	12	DG	O3'-P-O5'	-13.92	83.12	104.00
151	N8	15	DG	O3'-P-O5'	-13.92	83.12	104.00
153	NA	15	DG	O3'-P-O5'	-13.92	83.12	104.00
164	OC	14	DG	O3'-P-O5'	-13.92	83.12	104.00
186	R3	11	DG	O3'-P-O5'	-13.92	83.12	104.00
220	UD	19	DG	O3'-P-O5'	-13.92	83.12	104.00
236	X5	5	DG	O3'-P-O5'	-13.92	83.12	104.00
2	A2	3	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	2588	DG	O3'-P-O5'	-13.92	83.12	104.00
10	AA	11	DG	O3'-P-O5'	-13.92	83.13	104.00
11	AB	126	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	883	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	1053	DG	O3'-P-O5'	-13.92	83.12	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4510	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	5132	DG	O3'-P-O5'	-13.92	83.12	104.00
211	TD	41	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	1927	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	2654	DG	O3'-P-O5'	-13.92	83.13	104.00
11	AB	3871	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	3888	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	4480	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	4489	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	4629	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	4784	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	4980	DG	O3'-P-O5'	-13.92	83.13	104.00
11	AB	5430	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	5756	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	5848	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	6940	DG	O3'-P-O5'	-13.92	83.12	104.00
13	AD	14	DG	O3'-P-O5'	-13.92	83.12	104.00
43	D8	25	DG	O3'-P-O5'	-13.92	83.12	104.00
50	E3	2	DG	O3'-P-O5'	-13.92	83.12	104.00
69	FD	37	DG	O3'-P-O5'	-13.92	83.12	104.00
74	G6	21	DG	O3'-P-O5'	-13.92	83.12	104.00
167	P3	29	DG	O3'-P-O5'	-13.92	83.12	104.00
44	D9	18	DG	O3'-P-O5'	-13.92	83.13	104.00
47	DD	29	DG	O3'-P-O5'	-13.92	83.12	104.00
99	I9	17	DG	O3'-P-O5'	-13.92	83.12	104.00
144	MC	6	DG	O3'-P-O5'	-13.92	83.12	104.00
211	TD	10	DG	O3'-P-O5'	-13.92	83.12	104.00
82	H2	5	DG	O3'-P-O5'	-13.92	83.12	104.00
139	M6	19	DG	O3'-P-O5'	-13.92	83.13	104.00
183	QC	21	DG	O3'-P-O5'	-13.92	83.12	104.00
212	U2	10	DG	O3'-P-O5'	-13.92	83.12	104.00
11	AB	42	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	44	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	114	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	328	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	4602	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	5798	DG	O3'-P-O5'	-13.91	83.13	104.00
104	J2	26	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	86	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	901	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	1284	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	1541	DG	O3'-P-O5'	-13.91	83.13	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1667	DG	O3'-P-O5'	-13.91	83.13	104.00
53	E7	16	DG	O3'-P-O5'	-13.91	83.13	104.00
108	J7	55	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	1038	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	1967	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	2178	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	2391	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	3653	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	4216	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	3621	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	4672	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	4711	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	5001	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	5764	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	6057	DG	O3'-P-O5'	-13.91	83.13	104.00
38	D2	11	DG	O3'-P-O5'	-13.91	83.13	104.00
56	EA	20	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	6024	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	6337	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	6833	DG	O3'-P-O5'	-13.91	83.13	104.00
31	C7	30	DG	O3'-P-O5'	-13.91	83.13	104.00
40	D5	24	DG	O3'-P-O5'	-13.91	83.13	104.00
65	F8	3	DG	O3'-P-O5'	-13.91	83.13	104.00
88	H9	11	DG	O3'-P-O5'	-13.91	83.13	104.00
102	ID	30	DG	O3'-P-O5'	-13.91	83.13	104.00
82	H2	43	DG	O3'-P-O5'	-13.91	83.13	104.00
82	H2	47	DG	O3'-P-O5'	-13.91	83.13	104.00
145	MD	38	DG	O3'-P-O5'	-13.91	83.13	104.00
170	P7	12	DG	O3'-P-O5'	-13.91	83.13	104.00
97	I7	31	DG	O3'-P-O5'	-13.91	83.13	104.00
199	S9	10	DG	O3'-P-O5'	-13.91	83.13	104.00
200	SA	6	DG	O3'-P-O5'	-13.91	83.13	104.00
209	TA	27	DG	O3'-P-O5'	-13.91	83.13	104.00
214	U5	21	DG	O3'-P-O5'	-13.91	83.13	104.00
227	VA	20	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	1573	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	2106	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	2674	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	4061	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	5024	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	6907	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	6918	DG	O3'-P-O5'	-13.91	83.13	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	B9	41	DG	O3'-P-O5'	-13.91	83.13	104.00
122	KA	13	DG	O3'-P-O5'	-13.91	83.13	104.00
139	M6	21	DG	O3'-P-O5'	-13.91	83.13	104.00
174	PC	11	DG	O3'-P-O5'	-13.91	83.13	104.00
192	RC	11	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	1898	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	3424	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	3469	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	3542	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	4322	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	4943	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	5036	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	5483	DG	O3'-P-O5'	-13.91	83.13	104.00
11	AB	5793	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	6030	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	7012	DG	O3'-P-O5'	-13.91	83.14	104.00
14	B1	21	DG	O3'-P-O5'	-13.91	83.14	104.00
58	ED	21	DG	O3'-P-O5'	-13.91	83.14	104.00
88	H9	14	DG	O3'-P-O5'	-13.91	83.14	104.00
152	N9	18	DG	O3'-P-O5'	-13.91	83.13	104.00
112	JC	12	DG	O3'-P-O5'	-13.91	83.14	104.00
161	O8	53	DG	O3'-P-O5'	-13.91	83.14	104.00
165	OD	55	DG	O3'-P-O5'	-13.91	83.14	104.00
169	P6	18	DG	O3'-P-O5'	-13.91	83.14	104.00
180	Q8	5	DG	O3'-P-O5'	-13.91	83.14	104.00
185	R2	11	DG	O3'-P-O5'	-13.91	83.14	104.00
228	VC	29	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	14	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	3105	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	4118	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	4902	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	5084	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	5260	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	6189	DG	O3'-P-O5'	-13.91	83.14	104.00
30	C6	31	DG	O3'-P-O5'	-13.91	83.14	104.00
38	D2	17	DG	O3'-P-O5'	-13.91	83.14	104.00
60	F2	12	DG	O3'-P-O5'	-13.91	83.14	104.00
75	G7	26	DG	O3'-P-O5'	-13.91	83.14	104.00
223	V5	10	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	5062	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	6755	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	6825	DG	O3'-P-O5'	-13.91	83.14	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7145	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	7154	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	7187	DG	O3'-P-O5'	-13.91	83.14	104.00
46	DC	8	DG	O3'-P-O5'	-13.91	83.14	104.00
60	F2	5	DG	O3'-P-O5'	-13.91	83.14	104.00
117	K5	27	DG	O3'-P-O5'	-13.91	83.14	104.00
117	K5	40	DG	O3'-P-O5'	-13.91	83.14	104.00
204	T3	24	DG	O3'-P-O5'	-13.91	83.14	104.00
217	U9	11	DG	O3'-P-O5'	-13.91	83.14	104.00
223	V5	22	DG	O3'-P-O5'	-13.91	83.14	104.00
11	AB	536	DG	O3'-P-O5'	-13.90	83.14	104.00
11	AB	1282	DG	O3'-P-O5'	-13.90	83.14	104.00
11	AB	1611	DG	O3'-P-O5'	-13.90	83.14	104.00
11	AB	1922	DG	O3'-P-O5'	-13.90	83.14	104.00
11	AB	2910	DG	O3'-P-O5'	-13.90	83.14	104.00
11	AB	3369	DG	O3'-P-O5'	-13.90	83.14	104.00
11	AB	4967	DG	O3'-P-O5'	-13.90	83.14	104.00
11	AB	5772	DG	O3'-P-O5'	-13.90	83.14	104.00
60	F2	22	DG	O3'-P-O5'	-13.90	83.14	104.00
120	K8	6	DG	O3'-P-O5'	-13.90	83.14	104.00
11	AB	3445	DG	O3'-P-O5'	-13.90	83.14	104.00
11	AB	4472	DG	O3'-P-O5'	-13.90	83.14	104.00
11	AB	6154	DG	O3'-P-O5'	-13.90	83.14	104.00
11	AB	6630	DG	O3'-P-O5'	-13.90	83.14	104.00
17	B4	11	DG	O3'-P-O5'	-13.90	83.15	104.00
49	E2	4	DG	O3'-P-O5'	-13.90	83.14	104.00
69	FD	44	DG	O3'-P-O5'	-13.90	83.14	104.00
96	I6	3	DG	O3'-P-O5'	-13.90	83.14	104.00
154	NC	26	DG	O3'-P-O5'	-13.90	83.15	104.00
189	R8	28	DG	O3'-P-O5'	-13.90	83.15	104.00
11	AB	1789	DG	O3'-P-O5'	-13.90	83.15	104.00
11	AB	1811	DG	O3'-P-O5'	-13.90	83.15	104.00
11	AB	2311	DG	O3'-P-O5'	-13.90	83.15	104.00
11	AB	2729	DG	O3'-P-O5'	-13.90	83.15	104.00
11	AB	5681	DG	O3'-P-O5'	-13.90	83.15	104.00
51	E5	25	DG	O3'-P-O5'	-13.90	83.15	104.00
11	AB	5019	DG	O3'-P-O5'	-13.90	83.15	104.00
11	AB	6831	DG	O3'-P-O5'	-13.90	83.15	104.00
11	AB	7177	DG	O3'-P-O5'	-13.90	83.15	104.00
18	B5	3	DG	O3'-P-O5'	-13.90	83.15	104.00
133	LA	6	DG	O3'-P-O5'	-13.90	83.15	104.00
11	AB	294	DG	O3'-P-O5'	-13.90	83.15	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	548	DG	O3'-P-O5'	-13.90	83.15	104.00
11	AB	2373	DG	O3'-P-O5'	-13.90	83.15	104.00
11	AB	5946	DG	O3'-P-O5'	-13.90	83.15	104.00
55	E9	22	DG	O3'-P-O5'	-13.90	83.15	104.00
11	AB	886	DG	O3'-P-O5'	-13.90	83.16	104.00
11	AB	1819	DG	O3'-P-O5'	-13.90	83.16	104.00
11	AB	5050	DG	O3'-P-O5'	-13.90	83.15	104.00
30	C6	17	DG	O3'-P-O5'	-13.90	83.16	104.00
90	HC	15	DG	O3'-P-O5'	-13.90	83.15	104.00
46	DC	16	DG	O3'-P-O5'	-13.90	83.16	104.00
106	J5	30	DG	O3'-P-O5'	-13.90	83.16	104.00
107	J6	22	DG	O3'-P-O5'	-13.90	83.16	104.00
11	AB	3838	DG	O3'-P-O5'	-13.89	83.16	104.00
11	AB	4038	DG	O3'-P-O5'	-13.89	83.16	104.00
1	A1	15	DG	O3'-P-O5'	-13.89	83.16	104.00
10	AA	17	DG	O3'-P-O5'	-13.89	83.16	104.00
11	AB	499	DG	O3'-P-O5'	-13.89	83.16	104.00
11	AB	2877	DG	O3'-P-O5'	-13.89	83.16	104.00
11	AB	2885	DG	O3'-P-O5'	-13.89	83.16	104.00
20	B7	9	DG	O3'-P-O5'	-13.89	83.16	104.00
180	Q8	10	DG	O3'-P-O5'	-13.89	83.16	104.00
11	AB	1267	DG	O3'-P-O5'	-13.89	83.17	104.00
11	AB	3729	DG	O3'-P-O5'	-13.89	83.17	104.00
11	AB	4846	DG	O3'-P-O5'	-13.89	83.17	104.00
11	AB	4702	DG	O3'-P-O5'	-13.89	83.17	104.00
23	BA	17	DG	O3'-P-O5'	-13.89	83.17	104.00
214	U5	8	DG	O3'-P-O5'	-13.89	83.17	104.00
11	AB	1182	DG	O3'-P-O5'	-13.89	83.17	104.00
11	AB	4241	DG	O3'-P-O5'	-13.88	83.17	104.00
11	AB	7084	DG	O3'-P-O5'	-13.89	83.17	104.00
136	M2	18	DG	O3'-P-O5'	-13.88	83.17	104.00
11	AB	2435	DG	O3'-P-O5'	-13.88	83.17	104.00
222	V3	10	DG	O3'-P-O5'	-13.88	83.18	104.00
11	AB	1883	DG	O3'-P-O5'	-13.87	83.19	104.00
11	AB	390	DG	O3'-P-O5'	-13.85	83.22	104.00
11	AB	526	DG	O3'-P-O5'	-13.84	83.24	104.00
11	AB	6223	DG	O3'-P-O5'	-13.83	83.25	104.00
11	AB	5860	DG	O3'-P-O5'	-13.82	83.27	104.00
11	AB	661	DG	O3'-P-O5'	-13.82	83.27	104.00
11	AB	4184	DG	O3'-P-O5'	-13.73	83.40	104.00
11	AB	5119	DG	O3'-P-O5'	-13.68	83.48	104.00
11	AB	6789	DG	O3'-P-O5'	-12.92	84.63	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2096	DG	O3'-P-O5'	-12.91	84.64	104.00
11	AB	651	DG	O3'-P-O5'	-12.90	84.64	104.00
11	AB	964	DG	O3'-P-O5'	-12.90	84.64	104.00
11	AB	5068	DG	O3'-P-O5'	-12.90	84.64	104.00
160	O7	43	DG	O3'-P-O5'	-12.90	84.64	104.00
97	I7	26	DG	O3'-P-O5'	-12.90	84.65	104.00
11	AB	666	DG	O3'-P-O5'	-12.90	84.66	104.00
11	AB	1845	DG	O3'-P-O5'	-12.90	84.65	104.00
11	AB	3518	DG	O3'-P-O5'	-12.90	84.66	104.00
11	AB	3562	DG	O3'-P-O5'	-12.90	84.65	104.00
11	AB	4881	DG	O3'-P-O5'	-12.90	84.65	104.00
11	AB	5720	DG	O3'-P-O5'	-12.90	84.65	104.00
11	AB	6817	DG	O3'-P-O5'	-12.90	84.65	104.00
154	NC	35	DG	O3'-P-O5'	-12.90	84.65	104.00
198	S8	8	DG	O3'-P-O5'	-12.90	84.66	104.00
11	AB	2799	DG	O3'-P-O5'	-12.89	84.66	104.00
11	AB	3689	DG	O3'-P-O5'	-12.89	84.66	104.00
204	T3	31	DG	O3'-P-O5'	-12.89	84.66	104.00
11	AB	4290	DG	O3'-P-O5'	-12.89	84.66	104.00
11	AB	623	DG	O3'-P-O5'	-12.89	84.67	104.00
11	AB	1376	DG	O3'-P-O5'	-12.89	84.67	104.00
11	AB	4661	DG	O3'-P-O5'	-12.89	84.66	104.00
11	AB	6568	DG	O3'-P-O5'	-12.89	84.67	104.00
11	AB	7078	DG	O3'-P-O5'	-12.89	84.66	104.00
11	AB	7091	DG	O3'-P-O5'	-12.89	84.67	104.00
13	AD	38	DG	O3'-P-O5'	-12.89	84.66	104.00
79	GC	18	DG	O3'-P-O5'	-12.89	84.66	104.00
84	H5	7	DG	O3'-P-O5'	-12.89	84.67	104.00
128	L5	1	DG	O3'-P-O5'	-12.89	84.66	104.00
157	O3	19	DG	O3'-P-O5'	-12.89	84.66	104.00
161	O8	14	DG	O3'-P-O5'	-12.89	84.67	104.00
11	AB	359	DG	O3'-P-O5'	-12.89	84.67	104.00
11	AB	1138	DG	O3'-P-O5'	-12.89	84.67	104.00
11	AB	4097	DG	O3'-P-O5'	-12.89	84.67	104.00
57	EC	12	DG	O3'-P-O5'	-12.89	84.67	104.00
76	G8	15	DG	O3'-P-O5'	-12.89	84.67	104.00
196	S5	4	DG	O3'-P-O5'	-12.89	84.67	104.00
231	W5	18	DG	O3'-P-O5'	-12.89	84.67	104.00
11	AB	367	DG	O3'-P-O5'	-12.88	84.67	104.00
55	E9	43	DG	O3'-P-O5'	-12.89	84.67	104.00
11	AB	805	DG	O3'-P-O5'	-12.88	84.67	104.00
11	AB	1153	DG	O3'-P-O5'	-12.88	84.67	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3782	DG	O3'-P-O5'	-12.88	84.67	104.00
11	AB	4092	DG	O3'-P-O5'	-12.88	84.67	104.00
11	AB	5228	DG	O3'-P-O5'	-12.88	84.67	104.00
11	AB	5710	DG	O3'-P-O5'	-12.88	84.67	104.00
11	AB	6180	DG	O3'-P-O5'	-12.88	84.67	104.00
11	AB	6577	DG	O3'-P-O5'	-12.88	84.67	104.00
11	AB	220	DG	O3'-P-O5'	-12.88	84.68	104.00
11	AB	5150	DG	O3'-P-O5'	-12.88	84.67	104.00
11	AB	5993	DG	O3'-P-O5'	-12.88	84.68	104.00
11	AB	6494	DG	O3'-P-O5'	-12.88	84.67	104.00
72	G3	4	DG	O3'-P-O5'	-12.88	84.67	104.00
11	AB	2857	DG	O3'-P-O5'	-12.88	84.68	104.00
11	AB	4100	DG	O3'-P-O5'	-12.88	84.68	104.00
11	AB	4681	DG	O3'-P-O5'	-12.88	84.68	104.00
20	B7	21	DG	O3'-P-O5'	-12.88	84.68	104.00
29	C5	16	DG	O3'-P-O5'	-12.88	84.68	104.00
68	FC	11	DG	O3'-P-O5'	-12.88	84.68	104.00
76	G8	1	DG	O3'-P-O5'	-12.88	84.68	104.00
188	R7	10	DG	O3'-P-O5'	-12.88	84.68	104.00
72	G3	20	DG	O3'-P-O5'	-12.88	84.68	104.00
215	U7	21	DG	O3'-P-O5'	-12.88	84.68	104.00
1	A1	53	DG	O3'-P-O5'	-12.88	84.68	104.00
5	A5	39	DG	O3'-P-O5'	-12.88	84.68	104.00
5	A5	41	DG	O3'-P-O5'	-12.88	84.68	104.00
11	AB	183	DG	O3'-P-O5'	-12.88	84.68	104.00
11	AB	361	DG	O3'-P-O5'	-12.88	84.68	104.00
11	AB	375	DG	O3'-P-O5'	-12.88	84.68	104.00
17	B4	18	DG	O3'-P-O5'	-12.88	84.68	104.00
11	AB	3013	DG	O3'-P-O5'	-12.88	84.69	104.00
11	AB	3649	DG	O3'-P-O5'	-12.88	84.68	104.00
11	AB	4355	DG	O3'-P-O5'	-12.88	84.69	104.00
11	AB	4482	DG	O3'-P-O5'	-12.88	84.68	104.00
11	AB	5289	DG	O3'-P-O5'	-12.88	84.68	104.00
11	AB	6724	DG	O3'-P-O5'	-12.88	84.69	104.00
67	FA	22	DG	O3'-P-O5'	-12.88	84.69	104.00
87	H8	15	DG	O3'-P-O5'	-12.88	84.68	104.00
135	LD	7	DG	O3'-P-O5'	-12.88	84.68	104.00
188	R7	25	DG	O3'-P-O5'	-12.88	84.68	104.00
11	AB	454	DG	O3'-P-O5'	-12.88	84.69	104.00
11	AB	925	DG	O3'-P-O5'	-12.88	84.69	104.00
11	AB	1527	DG	O3'-P-O5'	-12.88	84.69	104.00
66	F9	16	DG	O3'-P-O5'	-12.88	84.69	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
69	FD	26	DG	O3'-P-O5'	-12.88	84.69	104.00
148	N5	12	DG	O3'-P-O5'	-12.88	84.69	104.00
207	T8	19	DG	O3'-P-O5'	-12.88	84.69	104.00
11	AB	946	DG	O3'-P-O5'	-12.87	84.69	104.00
11	AB	2526	DG	O3'-P-O5'	-12.87	84.69	104.00
32	C8	42	DG	O3'-P-O5'	-12.87	84.69	104.00
204	T3	18	DG	O3'-P-O5'	-12.88	84.69	104.00
212	U2	20	DG	O3'-P-O5'	-12.87	84.69	104.00
5	A5	19	DG	O3'-P-O5'	-12.87	84.69	104.00
11	AB	3163	DG	O3'-P-O5'	-12.87	84.69	104.00
5	A5	3	DG	O3'-P-O5'	-12.87	84.69	104.00
11	AB	687	DG	O3'-P-O5'	-12.87	84.69	104.00
11	AB	2977	DG	O3'-P-O5'	-12.87	84.69	104.00
11	AB	1853	DG	O3'-P-O5'	-12.87	84.69	104.00
11	AB	3521	DG	O3'-P-O5'	-12.87	84.69	104.00
11	AB	4228	DG	O3'-P-O5'	-12.87	84.69	104.00
11	AB	4953	DG	O3'-P-O5'	-12.87	84.69	104.00
11	AB	5208	DG	O3'-P-O5'	-12.87	84.69	104.00
11	AB	5168	DG	O3'-P-O5'	-12.87	84.69	104.00
11	AB	6001	DG	O3'-P-O5'	-12.87	84.69	104.00
11	AB	6100	DG	O3'-P-O5'	-12.87	84.69	104.00
11	AB	6434	DG	O3'-P-O5'	-12.87	84.69	104.00
46	DC	14	DG	O3'-P-O5'	-12.87	84.69	104.00
95	I5	34	DG	O3'-P-O5'	-12.87	84.69	104.00
102	ID	8	DG	O3'-P-O5'	-12.87	84.69	104.00
125	L1	29	DG	O3'-P-O5'	-12.87	84.69	104.00
130	L7	10	DG	O3'-P-O5'	-12.87	84.69	104.00
144	MC	13	DG	O3'-P-O5'	-12.87	84.69	104.00
169	P6	12	DG	O3'-P-O5'	-12.87	84.69	104.00
173	PA	18	DG	O3'-P-O5'	-12.87	84.69	104.00
215	U7	14	DG	O3'-P-O5'	-12.87	84.69	104.00
11	AB	584	DG	O3'-P-O5'	-12.87	84.69	104.00
11	AB	1408	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	2056	DG	O3'-P-O5'	-12.87	84.69	104.00
11	AB	6592	DG	O3'-P-O5'	-12.87	84.70	104.00
8	A8	24	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	424	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	439	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	2962	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	4278	DG	O3'-P-O5'	-12.87	84.70	104.00
29	C5	40	DG	O3'-P-O5'	-12.87	84.70	104.00
114	K1	22	DG	O3'-P-O5'	-12.87	84.69	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
152	N9	47	DG	O3'-P-O5'	-12.87	84.69	104.00
182	QA	24	DG	O3'-P-O5'	-12.87	84.69	104.00
11	AB	2206	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	2818	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	3310	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	3525	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	3604	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	4284	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	4293	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	6581	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	6874	DG	O3'-P-O5'	-12.87	84.70	104.00
36	CD	19	DG	O3'-P-O5'	-12.87	84.70	104.00
203	T2	14	DG	O3'-P-O5'	-12.87	84.70	104.00
101	IC	25	DG	O3'-P-O5'	-12.87	84.70	104.00
223	V5	3	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	430	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	970	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	1685	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	2110	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	2203	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	2595	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	3703	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	5802	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	6672	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	7066	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	2298	DG	O3'-P-O5'	-12.86	84.70	104.00
11	AB	2416	DG	O3'-P-O5'	-12.86	84.70	104.00
11	AB	3476	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	4740	DG	O3'-P-O5'	-12.86	84.70	104.00
11	AB	5434	DG	O3'-P-O5'	-12.86	84.70	104.00
11	AB	6611	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	6870	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	7032	DG	O3'-P-O5'	-12.87	84.70	104.00
11	AB	7038	DG	O3'-P-O5'	-12.87	84.70	104.00
39	D3	10	DG	O3'-P-O5'	-12.86	84.70	104.00
68	FC	14	DG	O3'-P-O5'	-12.87	84.70	104.00
145	MD	33	DG	O3'-P-O5'	-12.87	84.70	104.00
78	GA	3	DG	O3'-P-O5'	-12.86	84.70	104.00
145	MD	46	DG	O3'-P-O5'	-12.87	84.70	104.00
207	T8	23	DG	O3'-P-O5'	-12.87	84.70	104.00
218	UA	16	DG	O3'-P-O5'	-12.87	84.70	104.00
218	UA	18	DG	O3'-P-O5'	-12.87	84.70	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
182	QA	6	DG	O3'-P-O5'	-12.86	84.70	104.00
230	W3	13	DG	O3'-P-O5'	-12.86	84.70	104.00
11	AB	5914	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	6760	DG	O3'-P-O5'	-12.86	84.70	104.00
11	AB	7193	DG	O3'-P-O5'	-12.86	84.70	104.00
42	D7	4	DG	O3'-P-O5'	-12.86	84.70	104.00
149	N6	36	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	955	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	1984	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	2196	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	2679	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	2806	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	3152	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	3478	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	4993	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	6239	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	6565	DG	O3'-P-O5'	-12.86	84.71	104.00
22	B9	17	DG	O3'-P-O5'	-12.86	84.71	104.00
23	BA	34	DG	O3'-P-O5'	-12.86	84.71	104.00
58	ED	37	DG	O3'-P-O5'	-12.86	84.71	104.00
72	G3	11	DG	O3'-P-O5'	-12.86	84.71	104.00
216	U8	5	DG	O3'-P-O5'	-12.86	84.71	104.00
91	HD	22	DG	O3'-P-O5'	-12.86	84.71	104.00
152	N9	45	DG	O3'-P-O5'	-12.86	84.71	104.00
231	W5	8	DG	O3'-P-O5'	-12.86	84.71	104.00
7	A7	8	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	314	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	1380	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	1677	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	2341	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	3289	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	3757	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	3960	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	4868	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	6621	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	6813	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	6883	DG	O3'-P-O5'	-12.86	84.71	104.00
33	C9	2	DG	O3'-P-O5'	-12.86	84.71	104.00
78	GA	8	DG	O3'-P-O5'	-12.86	84.71	104.00
80	GD	16	DG	O3'-P-O5'	-12.86	84.71	104.00
122	KA	33	DG	O3'-P-O5'	-12.86	84.71	104.00
190	R9	23	DG	O3'-P-O5'	-12.86	84.71	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
220	UD	7	DG	O3'-P-O5'	-12.86	84.71	104.00
44	D9	7	DG	O3'-P-O5'	-12.86	84.71	104.00
47	DD	6	DG	O3'-P-O5'	-12.86	84.71	104.00
83	H3	26	DG	O3'-P-O5'	-12.86	84.71	104.00
122	KA	3	DG	O3'-P-O5'	-12.86	84.71	104.00
128	L5	4	DG	O3'-P-O5'	-12.86	84.71	104.00
137	M3	26	DG	O3'-P-O5'	-12.86	84.71	104.00
148	N5	7	DG	O3'-P-O5'	-12.86	84.71	104.00
180	Q8	26	DG	O3'-P-O5'	-12.86	84.71	104.00
192	RC	28	DG	O3'-P-O5'	-12.86	84.71	104.00
228	VC	9	DG	O3'-P-O5'	-12.86	84.71	104.00
1	A1	29	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	412	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	6245	DG	O3'-P-O5'	-12.86	84.72	104.00
13	AD	11	DG	O3'-P-O5'	-12.86	84.71	104.00
28	C3	24	DG	O3'-P-O5'	-12.86	84.72	104.00
133	LA	19	DG	O3'-P-O5'	-12.86	84.72	104.00
5	A5	25	DG	O3'-P-O5'	-12.86	84.72	104.00
11	AB	409	DG	O3'-P-O5'	-12.86	84.72	104.00
11	AB	1552	DG	O3'-P-O5'	-12.86	84.72	104.00
11	AB	2209	DG	O3'-P-O5'	-12.86	84.72	104.00
11	AB	1821	DG	O3'-P-O5'	-12.86	84.72	104.00
11	AB	2292	DG	O3'-P-O5'	-12.86	84.72	104.00
214	U5	38	DG	O3'-P-O5'	-12.86	84.71	104.00
227	VA	24	DG	O3'-P-O5'	-12.86	84.71	104.00
11	AB	2607	DG	O3'-P-O5'	-12.86	84.72	104.00
11	AB	3993	DG	O3'-P-O5'	-12.86	84.72	104.00
11	AB	4256	DG	O3'-P-O5'	-12.86	84.72	104.00
11	AB	4638	DG	O3'-P-O5'	-12.86	84.72	104.00
11	AB	4685	DG	O3'-P-O5'	-12.86	84.72	104.00
11	AB	5382	DG	O3'-P-O5'	-12.86	84.72	104.00
11	AB	5587	DG	O3'-P-O5'	-12.86	84.72	104.00
11	AB	5728	DG	O3'-P-O5'	-12.86	84.72	104.00
11	AB	5818	DG	O3'-P-O5'	-12.86	84.72	104.00
11	AB	6229	DG	O3'-P-O5'	-12.86	84.72	104.00
11	AB	6177	DG	O3'-P-O5'	-12.86	84.72	104.00
11	AB	7070	DG	O3'-P-O5'	-12.86	84.72	104.00
11	AB	7243	DG	O3'-P-O5'	-12.86	84.72	104.00
19	B6	9	DG	O3'-P-O5'	-12.86	84.72	104.00
40	D5	6	DG	O3'-P-O5'	-12.86	84.72	104.00
45	DA	9	DG	O3'-P-O5'	-12.86	84.72	104.00
69	FD	9	DG	O3'-P-O5'	-12.86	84.72	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
95	I5	22	DG	O3'-P-O5'	-12.86	84.72	104.00
119	K7	29	DG	O3'-P-O5'	-12.86	84.72	104.00
115	K2	11	DG	O3'-P-O5'	-12.86	84.72	104.00
134	LC	19	DG	O3'-P-O5'	-12.86	84.72	104.00
145	MD	15	DG	O3'-P-O5'	-12.86	84.72	104.00
150	N7	15	DG	O3'-P-O5'	-12.86	84.72	104.00
177	Q3	5	DG	O3'-P-O5'	-12.86	84.72	104.00
11	AB	1046	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	1090	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	1144	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	1228	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	1391	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	2833	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	4239	DG	O3'-P-O5'	-12.85	84.72	104.00
43	D8	33	DG	O3'-P-O5'	-12.85	84.72	104.00
49	E2	28	DG	O3'-P-O5'	-12.85	84.72	104.00
72	G3	26	DG	O3'-P-O5'	-12.85	84.72	104.00
94	I3	2	DG	O3'-P-O5'	-12.85	84.72	104.00
123	KC	12	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	273	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	1697	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	2483	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	3020	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	3314	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	3611	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	3842	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	4094	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	4280	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	4332	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	6795	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	7030	DG	O3'-P-O5'	-12.85	84.72	104.00
98	I8	39	DG	O3'-P-O5'	-12.85	84.72	104.00
144	MC	10	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	6357	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	6499	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	6557	DG	O3'-P-O5'	-12.85	84.72	104.00
51	E5	16	DG	O3'-P-O5'	-12.85	84.72	104.00
102	ID	26	DG	O3'-P-O5'	-12.85	84.72	104.00
213	U3	16	DG	O3'-P-O5'	-12.85	84.72	104.00
25	BD	17	DG	O3'-P-O5'	-12.85	84.72	104.00
41	D6	33	DG	O3'-P-O5'	-12.85	84.72	104.00
58	ED	32	DG	O3'-P-O5'	-12.85	84.72	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
152	N9	29	DG	O3'-P-O5'	-12.85	84.72	104.00
99	I9	29	DG	O3'-P-O5'	-12.85	84.72	104.00
125	L1	45	DG	O3'-P-O5'	-12.85	84.72	104.00
138	M5	23	DG	O3'-P-O5'	-12.85	84.72	104.00
152	N9	12	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	213	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	261	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	608	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	731	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	3766	DG	O3'-P-O5'	-12.85	84.72	104.00
67	FA	1	DG	O3'-P-O5'	-12.85	84.72	104.00
111	JA	4	DG	O3'-P-O5'	-12.85	84.72	104.00
117	K5	36	DG	O3'-P-O5'	-12.85	84.72	104.00
125	L1	2	DG	O3'-P-O5'	-12.85	84.73	104.00
133	LA	3	DG	O3'-P-O5'	-12.85	84.72	104.00
134	LC	10	DG	O3'-P-O5'	-12.85	84.72	104.00
11	AB	1341	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	2022	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	2893	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	4057	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	4336	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	4542	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	6340	DG	O3'-P-O5'	-12.85	84.73	104.00
18	B5	33	DG	O3'-P-O5'	-12.85	84.72	104.00
14	B1	9	DG	O3'-P-O5'	-12.85	84.73	104.00
39	D3	3	DG	O3'-P-O5'	-12.85	84.73	104.00
76	G8	20	DG	O3'-P-O5'	-12.85	84.73	104.00
126	L2	17	DG	O3'-P-O5'	-12.85	84.73	104.00
166	P2	13	DG	O3'-P-O5'	-12.85	84.73	104.00
213	U3	6	DG	O3'-P-O5'	-12.85	84.73	104.00
227	VA	12	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	223	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	1050	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	1910	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	3232	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	180	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	1288	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	1315	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	1815	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	3661	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	4871	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	6479	DG	O3'-P-O5'	-12.85	84.73	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2193	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	2356	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	4112	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	6126	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	6653	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	7059	DG	O3'-P-O5'	-12.85	84.73	104.00
79	GC	21	DG	O3'-P-O5'	-12.85	84.73	104.00
166	P2	6	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	7151	DG	O3'-P-O5'	-12.85	84.73	104.00
130	L7	56	DG	O3'-P-O5'	-12.85	84.73	104.00
178	Q5	30	DG	O3'-P-O5'	-12.85	84.73	104.00
206	T7	40	DG	O3'-P-O5'	-12.85	84.73	104.00
207	T8	9	DG	O3'-P-O5'	-12.85	84.73	104.00
228	VC	33	DG	O3'-P-O5'	-12.85	84.73	104.00
235	WD	12	DG	O3'-P-O5'	-12.85	84.73	104.00
11	AB	846	DG	O3'-P-O5'	-12.84	84.73	104.00
11	AB	2782	DG	O3'-P-O5'	-12.84	84.73	104.00
11	AB	3395	DG	O3'-P-O5'	-12.84	84.73	104.00
11	AB	4029	DG	O3'-P-O5'	-12.84	84.73	104.00
11	AB	7081	DG	O3'-P-O5'	-12.84	84.73	104.00
42	D7	9	DG	O3'-P-O5'	-12.84	84.73	104.00
105	J3	9	DG	O3'-P-O5'	-12.84	84.73	104.00
185	R2	5	DG	O3'-P-O5'	-12.84	84.73	104.00
11	AB	952	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	1068	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	2956	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	3175	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	5012	DG	O3'-P-O5'	-12.84	84.74	104.00
31	C7	13	DG	O3'-P-O5'	-12.84	84.74	104.00
39	D3	20	DG	O3'-P-O5'	-12.84	84.74	104.00
41	D6	1	DG	O3'-P-O5'	-12.84	84.74	104.00
53	E7	1	DG	O3'-P-O5'	-12.84	84.73	104.00
57	EC	21	DG	O3'-P-O5'	-12.84	84.73	104.00
64	F7	15	DG	O3'-P-O5'	-12.84	84.74	104.00
119	K7	35	DG	O3'-P-O5'	-12.84	84.74	104.00
168	P5	15	DG	O3'-P-O5'	-12.84	84.74	104.00
173	PA	4	DG	O3'-P-O5'	-12.84	84.74	104.00
209	TA	6	DG	O3'-P-O5'	-12.84	84.74	104.00
221	V2	15	DG	O3'-P-O5'	-12.84	84.74	104.00
229	VD	8	DG	O3'-P-O5'	-12.84	84.74	104.00
7	A7	11	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	972	DG	O3'-P-O5'	-12.84	84.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1336	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	2944	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	3040	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	3547	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	2452	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	3466	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	5735	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	6279	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	6346	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	6422	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	7040	DG	O3'-P-O5'	-12.84	84.74	104.00
79	GC	5	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	3677	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	3731	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	3818	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	4365	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	4745	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	5464	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	5583	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	5924	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	6992	DG	O3'-P-O5'	-12.84	84.74	104.00
22	B9	47	DG	O3'-P-O5'	-12.84	84.74	104.00
91	HD	26	DG	O3'-P-O5'	-12.84	84.74	104.00
125	L1	50	DG	O3'-P-O5'	-12.84	84.74	104.00
225	V8	11	DG	O3'-P-O5'	-12.84	84.74	104.00
3	A3	10	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	1825	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	2235	DG	O3'-P-O5'	-12.84	84.74	104.00
7	A7	35	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	1299	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	2829	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	3361	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	5441	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	6715	DG	O3'-P-O5'	-12.84	84.74	104.00
238	X9	37	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	1155	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	1461	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	1724	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	1836	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	1962	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	2067	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	2510	DG	O3'-P-O5'	-12.84	84.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2793	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	3847	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	5072	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	6943	DG	O3'-P-O5'	-12.84	84.75	104.00
75	G7	24	DG	O3'-P-O5'	-12.84	84.74	104.00
111	JA	6	DG	O3'-P-O5'	-12.84	84.74	104.00
141	M8	21	DG	O3'-P-O5'	-12.84	84.74	104.00
168	P5	10	DG	O3'-P-O5'	-12.84	84.74	104.00
227	VA	5	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	2418	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	2863	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	2901	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	3277	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	3487	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	5660	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	6142	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	3892	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	4535	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	5029	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	6595	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	6985	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	7110	DG	O3'-P-O5'	-12.84	84.74	104.00
16	B3	18	DG	O3'-P-O5'	-12.84	84.74	104.00
22	B9	34	DG	O3'-P-O5'	-12.84	84.75	104.00
67	FA	32	DG	O3'-P-O5'	-12.84	84.74	104.00
11	AB	5087	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	7180	DG	O3'-P-O5'	-12.84	84.75	104.00
13	AD	22	DG	O3'-P-O5'	-12.84	84.75	104.00
14	B1	3	DG	O3'-P-O5'	-12.84	84.75	104.00
61	F3	23	DG	O3'-P-O5'	-12.84	84.75	104.00
82	H2	14	DG	O3'-P-O5'	-12.84	84.74	104.00
103	J1	26	DG	O3'-P-O5'	-12.84	84.74	104.00
199	S9	6	DG	O3'-P-O5'	-12.84	84.74	104.00
233	W8	21	DG	O3'-P-O5'	-12.84	84.74	104.00
24	BC	34	DG	O3'-P-O5'	-12.84	84.75	104.00
49	E2	7	DG	O3'-P-O5'	-12.84	84.75	104.00
52	E6	4	DG	O3'-P-O5'	-12.84	84.75	104.00
53	E7	13	DG	O3'-P-O5'	-12.84	84.75	104.00
86	H7	11	DG	O3'-P-O5'	-12.84	84.75	104.00
94	I3	40	DG	O3'-P-O5'	-12.84	84.75	104.00
104	J2	16	DG	O3'-P-O5'	-12.84	84.75	104.00
109	J8	49	DG	O3'-P-O5'	-12.84	84.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
158	O5	32	DG	O3'-P-O5'	-12.84	84.75	104.00
221	V2	12	DG	O3'-P-O5'	-12.84	84.74	104.00
129	L6	25	DG	O3'-P-O5'	-12.84	84.75	104.00
166	P2	22	DG	O3'-P-O5'	-12.84	84.75	104.00
234	W9	1	DG	O3'-P-O5'	-12.84	84.74	104.00
198	S8	29	DG	O3'-P-O5'	-12.84	84.75	104.00
11	AB	3252	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	3307	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	6982	DG	O3'-P-O5'	-12.83	84.75	104.00
234	W9	8	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	681	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	1481	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	1739	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	1929	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	2409	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	2761	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	3130	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	3576	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	3638	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	4329	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	5279	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	3682	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	3896	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	4197	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	4551	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	6431	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	6717	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	6901	DG	O3'-P-O5'	-12.83	84.75	104.00
13	AD	26	DG	O3'-P-O5'	-12.83	84.75	104.00
23	BA	30	DG	O3'-P-O5'	-12.83	84.75	104.00
32	C8	15	DG	O3'-P-O5'	-12.83	84.75	104.00
36	CD	3	DG	O3'-P-O5'	-12.83	84.75	104.00
61	F3	17	DG	O3'-P-O5'	-12.83	84.75	104.00
81	H1	14	DG	O3'-P-O5'	-12.83	84.75	104.00
89	HA	13	DG	O3'-P-O5'	-12.83	84.75	104.00
99	I9	14	DG	O3'-P-O5'	-12.83	84.75	104.00
106	J5	4	DG	O3'-P-O5'	-12.83	84.75	104.00
106	J5	12	DG	O3'-P-O5'	-12.83	84.75	104.00
130	L7	36	DG	O3'-P-O5'	-12.83	84.75	104.00
139	M6	13	DG	O3'-P-O5'	-12.83	84.75	104.00
148	N5	5	DG	O3'-P-O5'	-12.83	84.75	104.00
149	N6	21	DG	O3'-P-O5'	-12.83	84.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
213	U3	1	DG	O3'-P-O5'	-12.83	84.75	104.00
147	N3	2	DG	O3'-P-O5'	-12.83	84.75	104.00
150	N7	3	DG	O3'-P-O5'	-12.83	84.75	104.00
150	N7	6	DG	O3'-P-O5'	-12.83	84.75	104.00
167	P3	4	DG	O3'-P-O5'	-12.83	84.75	104.00
169	P6	16	DG	O3'-P-O5'	-12.83	84.75	104.00
178	Q5	15	DG	O3'-P-O5'	-12.83	84.75	104.00
198	S8	27	DG	O3'-P-O5'	-12.83	84.75	104.00
206	T7	7	DG	O3'-P-O5'	-12.83	84.75	104.00
216	U8	14	DG	O3'-P-O5'	-12.83	84.75	104.00
236	X5	9	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	1362	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	2456	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	2698	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	4438	DG	O3'-P-O5'	-12.83	84.75	104.00
84	H5	3	DG	O3'-P-O5'	-12.83	84.75	104.00
214	U5	27	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	150	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	346	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	880	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	1192	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	1531	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	2084	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	2366	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	3155	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	1264	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	1804	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	2337	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	2401	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	7199	DG	O3'-P-O5'	-12.83	84.75	104.00
81	H1	6	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	2533	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	2932	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	3181	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	3243	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	3502	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	4271	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	4884	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	5093	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	5448	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	6124	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	6573	DG	O3'-P-O5'	-12.83	84.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6857	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	6878	DG	O3'-P-O5'	-12.83	84.75	104.00
11	AB	7004	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	7247	DG	O3'-P-O5'	-12.83	84.75	104.00
12	AC	5	DG	O3'-P-O5'	-12.83	84.75	104.00
17	B4	14	DG	O3'-P-O5'	-12.83	84.76	104.00
28	C3	21	DG	O3'-P-O5'	-12.83	84.75	104.00
56	EA	5	DG	O3'-P-O5'	-12.83	84.76	104.00
95	I5	30	DG	O3'-P-O5'	-12.83	84.75	104.00
99	I9	27	DG	O3'-P-O5'	-12.83	84.75	104.00
107	J6	41	DG	O3'-P-O5'	-12.83	84.76	104.00
154	NC	4	DG	O3'-P-O5'	-12.83	84.75	104.00
160	O7	36	DG	O3'-P-O5'	-12.83	84.75	104.00
228	VC	35	DG	O3'-P-O5'	-12.83	84.76	104.00
236	X5	19	DG	O3'-P-O5'	-12.83	84.76	104.00
238	X9	55	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	1433	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	1641	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	2516	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	6120	DG	O3'-P-O5'	-12.83	84.76	104.00
2	A2	23	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	29	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	336	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	1105	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	1782	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	3208	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	4233	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	4814	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	7129	DG	O3'-P-O5'	-12.83	84.76	104.00
56	EA	10	DG	O3'-P-O5'	-12.83	84.76	104.00
138	M5	6	DG	O3'-P-O5'	-12.83	84.76	104.00
152	N9	41	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	704	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	936	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	2091	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	3034	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	4807	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	5005	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	5455	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	5942	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	6923	DG	O3'-P-O5'	-12.83	84.76	104.00
11	AB	7019	DG	O3'-P-O5'	-12.83	84.76	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	B8	26	DG	O3'-P-O5'	-12.83	84.76	104.00
24	BC	28	DG	O3'-P-O5'	-12.83	84.76	104.00
108	J7	8	DG	O3'-P-O5'	-12.83	84.76	104.00
149	N6	24	DG	O3'-P-O5'	-12.83	84.76	104.00
175	PD	21	DG	O3'-P-O5'	-12.83	84.76	104.00
181	Q9	2	DG	O3'-P-O5'	-12.83	84.76	104.00
206	T7	15	DG	O3'-P-O5'	-12.83	84.76	104.00
232	W7	6	DG	O3'-P-O5'	-12.83	84.76	104.00
41	D6	27	DG	O3'-P-O5'	-12.83	84.76	104.00
47	DD	25	DG	O3'-P-O5'	-12.83	84.76	104.00
49	E2	17	DG	O3'-P-O5'	-12.83	84.76	104.00
66	F9	19	DG	O3'-P-O5'	-12.83	84.76	104.00
77	G9	8	DG	O3'-P-O5'	-12.83	84.76	104.00
84	H5	14	DG	O3'-P-O5'	-12.83	84.76	104.00
89	HA	25	DG	O3'-P-O5'	-12.83	84.76	104.00
161	O8	36	DG	O3'-P-O5'	-12.83	84.76	104.00
111	JA	13	DG	O3'-P-O5'	-12.83	84.76	104.00
114	K1	31	DG	O3'-P-O5'	-12.83	84.76	104.00
163	OA	12	DG	O3'-P-O5'	-12.83	84.76	104.00
179	Q7	13	DG	O3'-P-O5'	-12.83	84.76	104.00
202	SD	16	DG	O3'-P-O5'	-12.83	84.76	104.00
209	TA	9	DG	O3'-P-O5'	-12.83	84.76	104.00
222	V3	17	DG	O3'-P-O5'	-12.83	84.76	104.00
229	VD	5	DG	O3'-P-O5'	-12.83	84.76	104.00
1	A1	23	DG	O3'-P-O5'	-12.82	84.76	104.00
3	A3	17	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	871	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	2334	DG	O3'-P-O5'	-12.82	84.76	104.00
49	E2	34	DG	O3'-P-O5'	-12.82	84.76	104.00
67	FA	6	DG	O3'-P-O5'	-12.82	84.76	104.00
70	G1	16	DG	O3'-P-O5'	-12.82	84.76	104.00
117	K5	44	DG	O3'-P-O5'	-12.82	84.76	104.00
11	AB	1634	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	1829	DG	O3'-P-O5'	-12.82	84.76	104.00
11	AB	1902	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	1998	DG	O3'-P-O5'	-12.82	84.76	104.00
11	AB	2063	DG	O3'-P-O5'	-12.82	84.76	104.00
11	AB	2604	DG	O3'-P-O5'	-12.82	84.76	104.00
11	AB	2622	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	3044	DG	O3'-P-O5'	-12.82	84.76	104.00
11	AB	3124	DG	O3'-P-O5'	-12.82	84.76	104.00
11	AB	4180	DG	O3'-P-O5'	-12.82	84.76	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4338	DG	O3'-P-O5'	-12.82	84.76	104.00
11	AB	5893	DG	O3'-P-O5'	-12.82	84.76	104.00
16	B3	6	DG	O3'-P-O5'	-12.82	84.76	104.00
42	D7	15	DG	O3'-P-O5'	-12.82	84.76	104.00
162	O9	5	DG	O3'-P-O5'	-12.82	84.76	104.00
191	RA	7	DG	O3'-P-O5'	-12.82	84.76	104.00
11	AB	4036	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	4795	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	6019	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	6255	DG	O3'-P-O5'	-12.82	84.76	104.00
11	AB	6849	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	7102	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	7136	DG	O3'-P-O5'	-12.82	84.77	104.00
18	B5	29	DG	O3'-P-O5'	-12.82	84.77	104.00
19	B6	17	DG	O3'-P-O5'	-12.82	84.77	104.00
31	C7	15	DG	O3'-P-O5'	-12.82	84.77	104.00
48	E1	21	DG	O3'-P-O5'	-12.82	84.77	104.00
78	GA	13	DG	O3'-P-O5'	-12.82	84.76	104.00
94	I3	50	DG	O3'-P-O5'	-12.82	84.77	104.00
114	K1	10	DG	O3'-P-O5'	-12.82	84.77	104.00
146	N2	3	DG	O3'-P-O5'	-12.82	84.77	104.00
155	ND	10	DG	O3'-P-O5'	-12.82	84.77	104.00
182	QA	9	DG	O3'-P-O5'	-12.82	84.76	104.00
203	T2	22	DG	O3'-P-O5'	-12.82	84.77	104.00
211	TD	17	DG	O3'-P-O5'	-12.82	84.77	104.00
214	U5	30	DG	O3'-P-O5'	-12.82	84.76	104.00
11	AB	481	DG	O3'-P-O5'	-12.82	84.77	104.00
172	P9	15	DG	O3'-P-O5'	-12.82	84.77	104.00
191	RA	15	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	824	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	978	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	1757	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	5683	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	1016	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	1349	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	1643	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	1808	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	1936	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	1944	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	2486	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	3814	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	4604	DG	O3'-P-O5'	-12.82	84.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5124	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	5129	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	5399	DG	O3'-P-O5'	-12.82	84.77	104.00
31	C7	3	DG	O3'-P-O5'	-12.82	84.77	104.00
37	D1	12	DG	O3'-P-O5'	-12.82	84.77	104.00
155	ND	3	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	2160	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	2267	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	2926	DG	O3'-P-O5'	-12.82	84.77	104.00
17	B4	16	DG	O3'-P-O5'	-12.82	84.77	104.00
24	BC	12	DG	O3'-P-O5'	-12.82	84.77	104.00
34	CA	17	DG	O3'-P-O5'	-12.82	84.77	104.00
47	DD	15	DG	O3'-P-O5'	-12.82	84.77	104.00
55	E9	13	DG	O3'-P-O5'	-12.82	84.77	104.00
187	R5	23	DG	O3'-P-O5'	-12.82	84.77	104.00
194	S2	25	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	3863	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	3880	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	4344	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	4760	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	5200	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	5205	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	5578	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	7157	DG	O3'-P-O5'	-12.82	84.77	104.00
45	DA	11	DG	O3'-P-O5'	-12.82	84.77	104.00
60	F2	27	DG	O3'-P-O5'	-12.82	84.77	104.00
63	F6	17	DG	O3'-P-O5'	-12.82	84.77	104.00
67	FA	27	DG	O3'-P-O5'	-12.82	84.77	104.00
71	G2	10	DG	O3'-P-O5'	-12.82	84.77	104.00
86	H7	14	DG	O3'-P-O5'	-12.82	84.77	104.00
94	I3	33	DG	O3'-P-O5'	-12.82	84.77	104.00
100	IA	6	DG	O3'-P-O5'	-12.82	84.77	104.00
110	J9	10	DG	O3'-P-O5'	-12.82	84.77	104.00
129	L6	6	DG	O3'-P-O5'	-12.82	84.77	104.00
169	P6	7	DG	O3'-P-O5'	-12.82	84.77	104.00
125	L1	33	DG	O3'-P-O5'	-12.82	84.77	104.00
142	M9	21	DG	O3'-P-O5'	-12.82	84.77	104.00
145	MD	53	DG	O3'-P-O5'	-12.82	84.77	104.00
226	V9	22	DG	O3'-P-O5'	-12.82	84.77	104.00
151	N8	2	DG	O3'-P-O5'	-12.82	84.77	104.00
185	R2	8	DG	O3'-P-O5'	-12.82	84.77	104.00
185	R2	20	DG	O3'-P-O5'	-12.82	84.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
210	TC	24	DG	O3'-P-O5'	-12.82	84.77	104.00
219	UC	18	DG	O3'-P-O5'	-12.82	84.77	104.00
238	X9	20	DG	O3'-P-O5'	-12.82	84.77	104.00
2	A2	26	DG	O3'-P-O5'	-12.82	84.78	104.00
11	AB	614	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	1648	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	3334	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	4743	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	5493	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	6838	DG	O3'-P-O5'	-12.82	84.77	104.00
85	H6	26	DG	O3'-P-O5'	-12.82	84.77	104.00
156	O2	59	DG	O3'-P-O5'	-12.82	84.77	104.00
219	UC	8	DG	O3'-P-O5'	-12.82	84.77	104.00
230	W3	9	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	207	DG	O3'-P-O5'	-12.82	84.78	104.00
11	AB	801	DG	O3'-P-O5'	-12.82	84.78	104.00
11	AB	895	DG	O3'-P-O5'	-12.82	84.78	104.00
11	AB	1114	DG	O3'-P-O5'	-12.82	84.78	104.00
11	AB	1317	DG	O3'-P-O5'	-12.82	84.78	104.00
11	AB	1660	DG	O3'-P-O5'	-12.82	84.78	104.00
11	AB	2119	DG	O3'-P-O5'	-12.82	84.78	104.00
11	AB	2145	DG	O3'-P-O5'	-12.82	84.78	104.00
11	AB	2187	DG	O3'-P-O5'	-12.82	84.78	104.00
11	AB	3381	DG	O3'-P-O5'	-12.82	84.78	104.00
11	AB	3680	DG	O3'-P-O5'	-12.82	84.78	104.00
11	AB	3866	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	3914	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	4683	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	4755	DG	O3'-P-O5'	-12.82	84.78	104.00
11	AB	5965	DG	O3'-P-O5'	-12.82	84.78	104.00
11	AB	6088	DG	O3'-P-O5'	-12.82	84.78	104.00
11	AB	6170	DG	O3'-P-O5'	-12.82	84.78	104.00
11	AB	6208	DG	O3'-P-O5'	-12.82	84.78	104.00
117	K5	17	DG	O3'-P-O5'	-12.82	84.77	104.00
11	AB	6709	DG	O3'-P-O5'	-12.82	84.78	104.00
11	AB	6937	DG	O3'-P-O5'	-12.82	84.78	104.00
11	AB	7169	DG	O3'-P-O5'	-12.82	84.78	104.00
21	B8	12	DG	O3'-P-O5'	-12.82	84.78	104.00
33	C9	20	DG	O3'-P-O5'	-12.82	84.78	104.00
45	DA	22	DG	O3'-P-O5'	-12.82	84.78	104.00
59	F1	2	DG	O3'-P-O5'	-12.82	84.78	104.00
84	H5	9	DG	O3'-P-O5'	-12.82	84.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
111	JA	10	DG	O3'-P-O5'	-12.82	84.78	104.00
113	JD	33	DG	O3'-P-O5'	-12.82	84.77	104.00
156	O2	54	DG	O3'-P-O5'	-12.82	84.78	104.00
160	O7	16	DG	O3'-P-O5'	-12.82	84.77	104.00
165	OD	35	DG	O3'-P-O5'	-12.82	84.77	104.00
178	Q5	39	DG	O3'-P-O5'	-12.82	84.78	104.00
182	QA	18	DG	O3'-P-O5'	-12.82	84.78	104.00
200	SA	8	DG	O3'-P-O5'	-12.82	84.77	104.00
188	R7	3	DG	O3'-P-O5'	-12.82	84.78	104.00
190	R9	8	DG	O3'-P-O5'	-12.82	84.78	104.00
211	TD	13	DG	O3'-P-O5'	-12.82	84.77	104.00
225	V8	22	DG	O3'-P-O5'	-12.82	84.77	104.00
226	V9	24	DG	O3'-P-O5'	-12.82	84.78	104.00
4	A4	8	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	340	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	1773	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	3824	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	4801	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	5611	DG	O3'-P-O5'	-12.81	84.78	104.00
73	G5	16	DG	O3'-P-O5'	-12.81	84.78	104.00
4	A4	23	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	140	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	460	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	628	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	5761	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	6810	DG	O3'-P-O5'	-12.81	84.78	104.00
16	B3	12	DG	O3'-P-O5'	-12.81	84.78	104.00
93	I2	36	DG	O3'-P-O5'	-12.81	84.78	104.00
115	K2	27	DG	O3'-P-O5'	-12.81	84.78	104.00
119	K7	22	DG	O3'-P-O5'	-12.81	84.78	104.00
137	M3	34	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	2045	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	2139	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	2615	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	2766	DG	O3'-P-O5'	-12.81	84.78	104.00
160	O7	8	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	2826	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	3629	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	3691	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	3743	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	3966	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	4358	DG	O3'-P-O5'	-12.81	84.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5837	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	6310	DG	O3'-P-O5'	-12.81	84.78	104.00
158	O5	7	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	4376	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	4892	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	4904	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	5304	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	6022	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	6250	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	6262	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	6318	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	6328	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	6750	DG	O3'-P-O5'	-12.81	84.78	104.00
28	C3	15	DG	O3'-P-O5'	-12.81	84.78	104.00
34	CA	13	DG	O3'-P-O5'	-12.81	84.78	104.00
60	F2	20	DG	O3'-P-O5'	-12.81	84.78	104.00
73	G5	22	DG	O3'-P-O5'	-12.81	84.78	104.00
82	H2	36	DG	O3'-P-O5'	-12.81	84.78	104.00
109	J8	29	DG	O3'-P-O5'	-12.81	84.78	104.00
116	K3	16	DG	O3'-P-O5'	-12.81	84.78	104.00
204	T3	39	DG	O3'-P-O5'	-12.81	84.78	104.00
204	T3	44	DG	O3'-P-O5'	-12.81	84.78	104.00
126	L2	51	DG	O3'-P-O5'	-12.81	84.78	104.00
127	L3	15	DG	O3'-P-O5'	-12.81	84.78	104.00
148	N5	18	DG	O3'-P-O5'	-12.81	84.78	104.00
155	ND	7	DG	O3'-P-O5'	-12.81	84.78	104.00
233	W8	15	DG	O3'-P-O5'	-12.81	84.78	104.00
156	O2	26	DG	O3'-P-O5'	-12.81	84.78	104.00
164	OC	26	DG	O3'-P-O5'	-12.81	84.78	104.00
195	S3	24	DG	O3'-P-O5'	-12.81	84.78	104.00
199	S9	3	DG	O3'-P-O5'	-12.81	84.78	104.00
199	S9	18	DG	O3'-P-O5'	-12.81	84.78	104.00
206	T7	42	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	270	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	405	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	3247	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	5815	DG	O3'-P-O5'	-12.81	84.78	104.00
183	QC	11	DG	O3'-P-O5'	-12.81	84.78	104.00
217	U9	24	DG	O3'-P-O5'	-12.81	84.78	104.00
4	A4	25	DG	O3'-P-O5'	-12.81	84.78	104.00
6	A6	23	DG	O3'-P-O5'	-12.81	84.78	104.00
9	A9	6	DG	O3'-P-O5'	-12.81	84.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	9	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	64	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	910	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	1275	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	1311	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	5152	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	6304	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	6460	DG	O3'-P-O5'	-12.81	84.78	104.00
83	H3	30	DG	O3'-P-O5'	-12.81	84.78	104.00
97	I7	11	DG	O3'-P-O5'	-12.81	84.78	104.00
113	JD	26	DG	O3'-P-O5'	-12.81	84.78	104.00
202	SD	6	DG	O3'-P-O5'	-12.81	84.78	104.00
221	V2	7	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	2688	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	2974	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	4068	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	5987	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	6270	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	6775	DG	O3'-P-O5'	-12.81	84.78	104.00
55	E9	11	DG	O3'-P-O5'	-12.81	84.78	104.00
107	J6	15	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	6842	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	6969	DG	O3'-P-O5'	-12.81	84.78	104.00
28	C3	8	DG	O3'-P-O5'	-12.81	84.78	104.00
38	D2	6	DG	O3'-P-O5'	-12.81	84.78	104.00
39	D3	29	DG	O3'-P-O5'	-12.81	84.78	104.00
41	D6	9	DG	O3'-P-O5'	-12.81	84.78	104.00
49	E2	40	DG	O3'-P-O5'	-12.81	84.78	104.00
56	EA	12	DG	O3'-P-O5'	-12.81	84.78	104.00
82	H2	30	DG	O3'-P-O5'	-12.81	84.78	104.00
88	H9	23	DG	O3'-P-O5'	-12.81	84.78	104.00
93	I2	19	DG	O3'-P-O5'	-12.81	84.78	104.00
96	I6	10	DG	O3'-P-O5'	-12.81	84.78	104.00
105	J3	33	DG	O3'-P-O5'	-12.81	84.78	104.00
106	J5	34	DG	O3'-P-O5'	-12.81	84.78	104.00
116	K3	10	DG	O3'-P-O5'	-12.81	84.78	104.00
121	K9	25	DG	O3'-P-O5'	-12.81	84.78	104.00
159	O6	11	DG	O3'-P-O5'	-12.81	84.78	104.00
160	O7	48	DG	O3'-P-O5'	-12.81	84.78	104.00
161	O8	23	DG	O3'-P-O5'	-12.81	84.78	104.00
165	OD	11	DG	O3'-P-O5'	-12.81	84.79	104.00
198	S8	34	DG	O3'-P-O5'	-12.81	84.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
206	T7	5	DG	O3'-P-O5'	-12.81	84.78	104.00
222	V3	12	DG	O3'-P-O5'	-12.81	84.78	104.00
232	W7	23	DG	O3'-P-O5'	-12.81	84.78	104.00
11	AB	1589	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	6454	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	7202	DG	O3'-P-O5'	-12.81	84.79	104.00
131	L8	11	DG	O3'-P-O5'	-12.81	84.79	104.00
137	M3	5	DG	O3'-P-O5'	-12.81	84.79	104.00
196	S5	9	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	54	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	921	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	1020	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	2001	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	1257	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	1418	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	2031	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	2173	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	2726	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	2301	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	2479	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	3069	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	4645	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	6765	DG	O3'-P-O5'	-12.81	84.79	104.00
30	C6	41	DG	O3'-P-O5'	-12.81	84.79	104.00
37	D1	15	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	4834	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	4961	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	5557	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	5806	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	7123	DG	O3'-P-O5'	-12.81	84.79	104.00
15	B2	16	DG	O3'-P-O5'	-12.81	84.79	104.00
22	B9	53	DG	O3'-P-O5'	-12.81	84.79	104.00
29	C5	3	DG	O3'-P-O5'	-12.81	84.79	104.00
35	CC	28	DG	O3'-P-O5'	-12.81	84.79	104.00
46	DC	6	DG	O3'-P-O5'	-12.81	84.79	104.00
67	FA	3	DG	O3'-P-O5'	-12.81	84.79	104.00
189	R8	31	DG	O3'-P-O5'	-12.81	84.79	104.00
56	EA	15	DG	O3'-P-O5'	-12.81	84.79	104.00
58	ED	9	DG	O3'-P-O5'	-12.81	84.79	104.00
70	G1	8	DG	O3'-P-O5'	-12.81	84.79	104.00
93	I2	15	DG	O3'-P-O5'	-12.81	84.79	104.00
103	J1	9	DG	O3'-P-O5'	-12.81	84.79	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
108	J7	12	DG	O3'-P-O5'	-12.81	84.79	104.00
108	J7	31	DG	O3'-P-O5'	-12.81	84.79	104.00
142	M9	1	DG	O3'-P-O5'	-12.81	84.79	104.00
156	O2	40	DG	O3'-P-O5'	-12.81	84.79	104.00
161	O8	6	DG	O3'-P-O5'	-12.81	84.79	104.00
148	N5	30	DG	O3'-P-O5'	-12.81	84.79	104.00
157	O3	12	DG	O3'-P-O5'	-12.81	84.79	104.00
161	O8	57	DG	O3'-P-O5'	-12.81	84.79	104.00
165	OD	22	DG	O3'-P-O5'	-12.81	84.79	104.00
174	PC	14	DG	O3'-P-O5'	-12.81	84.79	104.00
226	V9	28	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	22	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	6137	DG	O3'-P-O5'	-12.81	84.79	104.00
2	A2	7	DG	O3'-P-O5'	-12.80	84.79	104.00
11	AB	216	DG	O3'-P-O5'	-12.80	84.79	104.00
11	AB	330	DG	O3'-P-O5'	-12.80	84.79	104.00
11	AB	450	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	828	DG	O3'-P-O5'	-12.80	84.79	104.00
11	AB	1339	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	4422	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	5840	DG	O3'-P-O5'	-12.81	84.79	104.00
3	A3	14	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	399	DG	O3'-P-O5'	-12.80	84.79	104.00
11	AB	435	DG	O3'-P-O5'	-12.80	84.79	104.00
11	AB	476	DG	O3'-P-O5'	-12.80	84.79	104.00
11	AB	546	DG	O3'-P-O5'	-12.80	84.79	104.00
11	AB	2073	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	4753	DG	O3'-P-O5'	-12.81	84.79	104.00
22	B9	45	DG	O3'-P-O5'	-12.81	84.79	104.00
29	C5	35	DG	O3'-P-O5'	-12.81	84.79	104.00
83	H3	11	DG	O3'-P-O5'	-12.81	84.79	104.00
91	HD	15	DG	O3'-P-O5'	-12.81	84.79	104.00
151	N8	11	DG	O3'-P-O5'	-12.81	84.79	104.00
182	QA	2	DG	O3'-P-O5'	-12.81	84.79	104.00
225	V8	13	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	1593	DG	O3'-P-O5'	-12.80	84.79	104.00
11	AB	1875	DG	O3'-P-O5'	-12.80	84.79	104.00
11	AB	2028	DG	O3'-P-O5'	-12.80	84.79	104.00
11	AB	2545	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	3235	DG	O3'-P-O5'	-12.80	84.79	104.00
11	AB	3325	DG	O3'-P-O5'	-12.80	84.79	104.00
11	AB	4307	DG	O3'-P-O5'	-12.80	84.79	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4411	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	4611	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	4832	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	5116	DG	O3'-P-O5'	-12.80	84.79	104.00
11	AB	5234	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	5656	DG	O3'-P-O5'	-12.80	84.79	104.00
11	AB	6291	DG	O3'-P-O5'	-12.80	84.79	104.00
11	AB	6521	DG	O3'-P-O5'	-12.80	84.79	104.00
32	C8	19	DG	O3'-P-O5'	-12.81	84.79	104.00
76	G8	12	DG	O3'-P-O5'	-12.81	84.79	104.00
119	K7	13	DG	O3'-P-O5'	-12.81	84.79	104.00
179	Q7	7	DG	O3'-P-O5'	-12.81	84.79	104.00
222	V3	21	DG	O3'-P-O5'	-12.81	84.79	104.00
11	AB	5973	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	6072	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	6439	DG	O3'-P-O5'	-12.80	84.80	104.00
13	AD	16	DG	O3'-P-O5'	-12.80	84.79	104.00
14	B1	39	DG	O3'-P-O5'	-12.80	84.79	104.00
26	C1	4	DG	O3'-P-O5'	-12.80	84.80	104.00
30	C6	3	DG	O3'-P-O5'	-12.80	84.80	104.00
53	E7	20	DG	O3'-P-O5'	-12.80	84.79	104.00
61	F3	10	DG	O3'-P-O5'	-12.80	84.80	104.00
187	R5	25	DG	O3'-P-O5'	-12.80	84.79	104.00
73	G5	8	DG	O3'-P-O5'	-12.80	84.80	104.00
83	H3	24	DG	O3'-P-O5'	-12.80	84.80	104.00
89	HA	20	DG	O3'-P-O5'	-12.80	84.80	104.00
95	I5	12	DG	O3'-P-O5'	-12.80	84.79	104.00
114	K1	26	DG	O3'-P-O5'	-12.80	84.79	104.00
124	KD	19	DG	O3'-P-O5'	-12.80	84.79	104.00
119	K7	1	DG	O3'-P-O5'	-12.80	84.80	104.00
133	LA	13	DG	O3'-P-O5'	-12.80	84.79	104.00
137	M3	13	DG	O3'-P-O5'	-12.80	84.79	104.00
152	N9	4	DG	O3'-P-O5'	-12.80	84.79	104.00
167	P3	37	DG	O3'-P-O5'	-12.80	84.79	104.00
176	Q2	15	DG	O3'-P-O5'	-12.80	84.79	104.00
238	X9	26	DG	O3'-P-O5'	-12.80	84.79	104.00
195	S3	26	DG	O3'-P-O5'	-12.80	84.80	104.00
224	V7	21	DG	O3'-P-O5'	-12.80	84.79	104.00
11	AB	420	DG	O3'-P-O5'	-12.80	84.80	104.00
102	ID	32	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	16	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	541	DG	O3'-P-O5'	-12.80	84.80	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	582	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	3822	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	807	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	1074	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	1416	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	1489	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	1628	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	1989	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	2239	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	3600	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	5845	DG	O3'-P-O5'	-12.80	84.80	104.00
22	B9	11	DG	O3'-P-O5'	-12.80	84.80	104.00
97	I7	14	DG	O3'-P-O5'	-12.80	84.80	104.00
219	UC	13	DG	O3'-P-O5'	-12.80	84.80	104.00
228	VC	24	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	2157	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	2569	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	2656	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	3115	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	3220	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	3900	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	6949	DG	O3'-P-O5'	-12.80	84.80	104.00
118	K6	18	DG	O3'-P-O5'	-12.80	84.80	104.00
218	UA	8	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	4018	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	4778	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	6449	DG	O3'-P-O5'	-12.80	84.80	104.00
63	F6	6	DG	O3'-P-O5'	-12.80	84.80	104.00
64	F7	24	DG	O3'-P-O5'	-12.80	84.80	104.00
85	H6	31	DG	O3'-P-O5'	-12.80	84.80	104.00
90	HC	27	DG	O3'-P-O5'	-12.80	84.80	104.00
123	KC	23	DG	O3'-P-O5'	-12.80	84.80	104.00
125	L1	10	DG	O3'-P-O5'	-12.80	84.80	104.00
138	M5	16	DG	O3'-P-O5'	-12.80	84.80	104.00
138	M5	32	DG	O3'-P-O5'	-12.80	84.80	104.00
153	NA	17	DG	O3'-P-O5'	-12.80	84.80	104.00
168	P5	7	DG	O3'-P-O5'	-12.80	84.80	104.00
180	Q8	24	DG	O3'-P-O5'	-12.80	84.80	104.00
206	T7	50	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	152	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	333	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	579	DG	O3'-P-O5'	-12.80	84.80	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	746	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	874	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	3066	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	3739	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	4663	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	5099	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	5413	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	7028	DG	O3'-P-O5'	-12.80	84.80	104.00
12	AC	20	DG	O3'-P-O5'	-12.80	84.80	104.00
23	BA	5	DG	O3'-P-O5'	-12.80	84.80	104.00
51	E5	28	DG	O3'-P-O5'	-12.80	84.80	104.00
113	JD	5	DG	O3'-P-O5'	-12.80	84.80	104.00
195	S3	22	DG	O3'-P-O5'	-12.80	84.80	104.00
203	T2	26	DG	O3'-P-O5'	-12.80	84.80	104.00
207	T8	14	DG	O3'-P-O5'	-12.80	84.80	104.00
8	A8	7	DG	O3'-P-O5'	-12.80	84.81	104.00
11	AB	285	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	751	DG	O3'-P-O5'	-12.80	84.81	104.00
11	AB	2038	DG	O3'-P-O5'	-12.80	84.81	104.00
11	AB	3391	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	3890	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	5081	DG	O3'-P-O5'	-12.80	84.81	104.00
11	AB	5299	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	5503	DG	O3'-P-O5'	-12.80	84.80	104.00
130	L7	30	DG	O3'-P-O5'	-12.80	84.80	104.00
11	AB	6966	DG	O3'-P-O5'	-12.80	84.81	104.00
18	B5	15	DG	O3'-P-O5'	-12.80	84.80	104.00
22	B9	24	DG	O3'-P-O5'	-12.80	84.80	104.00
22	B9	50	DG	O3'-P-O5'	-12.80	84.80	104.00
23	BA	10	DG	O3'-P-O5'	-12.80	84.80	104.00
35	CC	18	DG	O3'-P-O5'	-12.80	84.80	104.00
39	D3	26	DG	O3'-P-O5'	-12.80	84.81	104.00
49	E2	32	DG	O3'-P-O5'	-12.80	84.80	104.00
51	E5	8	DG	O3'-P-O5'	-12.80	84.80	104.00
74	G6	33	DG	O3'-P-O5'	-12.80	84.80	104.00
87	H8	19	DG	O3'-P-O5'	-12.80	84.81	104.00
109	J8	44	DG	O3'-P-O5'	-12.80	84.80	104.00
126	L2	36	DG	O3'-P-O5'	-12.80	84.80	104.00
182	QA	15	DG	O3'-P-O5'	-12.80	84.80	104.00
152	N9	43	DG	O3'-P-O5'	-12.80	84.80	104.00
196	S5	29	DG	O3'-P-O5'	-12.80	84.80	104.00
234	W9	16	DG	O3'-P-O5'	-12.80	84.80	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
218	UA	11	DG	O3'-P-O5'	-12.80	84.80	104.00
219	UC	31	DG	O3'-P-O5'	-12.80	84.81	104.00
11	AB	310	DG	O3'-P-O5'	-12.80	84.81	104.00
11	AB	1200	DG	O3'-P-O5'	-12.80	84.81	104.00
11	AB	4837	DG	O3'-P-O5'	-12.80	84.81	104.00
223	V5	7	DG	O3'-P-O5'	-12.80	84.81	104.00
1	A1	4	DG	O3'-P-O5'	-12.79	84.81	104.00
6	A6	21	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	101	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	243	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	348	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	474	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	760	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	984	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	1116	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	2218	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	2941	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	2986	DG	O3'-P-O5'	-12.80	84.81	104.00
11	AB	3406	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	3844	DG	O3'-P-O5'	-12.80	84.81	104.00
11	AB	4009	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	4431	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	5179	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	5474	DG	O3'-P-O5'	-12.80	84.81	104.00
30	C6	37	DG	O3'-P-O5'	-12.80	84.81	104.00
98	I8	35	DG	O3'-P-O5'	-12.80	84.81	104.00
230	W3	48	DG	O3'-P-O5'	-12.80	84.81	104.00
11	AB	5183	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	5875	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	5899	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	5949	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	5977	DG	O3'-P-O5'	-12.79	84.81	104.00
130	L7	38	DG	O3'-P-O5'	-12.80	84.81	104.00
11	AB	6634	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	7174	DG	O3'-P-O5'	-12.79	84.81	104.00
32	C8	53	DG	O3'-P-O5'	-12.79	84.81	104.00
56	EA	8	DG	O3'-P-O5'	-12.79	84.81	104.00
61	F3	13	DG	O3'-P-O5'	-12.79	84.81	104.00
108	J7	5	DG	O3'-P-O5'	-12.79	84.81	104.00
114	K1	44	DG	O3'-P-O5'	-12.79	84.81	104.00
130	L7	6	DG	O3'-P-O5'	-12.79	84.81	104.00
154	NC	8	DG	O3'-P-O5'	-12.80	84.81	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
147	N3	7	DG	O3'-P-O5'	-12.79	84.81	104.00
165	OD	51	DG	O3'-P-O5'	-12.79	84.81	104.00
178	Q5	24	DG	O3'-P-O5'	-12.79	84.81	104.00
181	Q9	20	DG	O3'-P-O5'	-12.79	84.81	104.00
207	T8	7	DG	O3'-P-O5'	-12.79	84.81	104.00
216	U8	11	DG	O3'-P-O5'	-12.80	84.81	104.00
1	A1	42	DG	O3'-P-O5'	-12.79	84.81	104.00
8	A8	10	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	82	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	1188	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	1443	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	4633	DG	O3'-P-O5'	-12.79	84.81	104.00
179	Q7	25	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	714	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	1751	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	1907	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	2124	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	2379	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	2489	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	2868	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	2920	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	3133	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	4021	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	4315	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	4748	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	5231	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	6543	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	6746	DG	O3'-P-O5'	-12.79	84.81	104.00
197	S7	23	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	6893	DG	O3'-P-O5'	-12.79	84.81	104.00
32	C8	32	DG	O3'-P-O5'	-12.79	84.81	104.00
33	C9	14	DG	O3'-P-O5'	-12.79	84.81	104.00
45	DA	20	DG	O3'-P-O5'	-12.79	84.81	104.00
108	J7	36	DG	O3'-P-O5'	-12.79	84.81	104.00
67	FA	15	DG	O3'-P-O5'	-12.79	84.81	104.00
94	I3	29	DG	O3'-P-O5'	-12.79	84.81	104.00
161	O8	9	DG	O3'-P-O5'	-12.79	84.81	104.00
188	R7	5	DG	O3'-P-O5'	-12.79	84.81	104.00
230	W3	39	DG	O3'-P-O5'	-12.79	84.81	104.00
235	WD	5	DG	O3'-P-O5'	-12.79	84.81	104.00
9	A9	8	DG	O3'-P-O5'	-12.79	84.81	104.00
11	AB	351	DG	O3'-P-O5'	-12.79	84.81	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	906	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	2754	DG	O3'-P-O5'	-12.79	84.81	104.00
32	C8	37	DG	O3'-P-O5'	-12.79	84.81	104.00
43	D8	40	DG	O3'-P-O5'	-12.79	84.81	104.00
202	SD	10	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	916	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	989	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	1198	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	2077	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	2715	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	6540	DG	O3'-P-O5'	-12.79	84.82	104.00
40	D5	19	DG	O3'-P-O5'	-12.79	84.82	104.00
126	L2	48	DG	O3'-P-O5'	-12.79	84.81	104.00
165	OD	32	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	3376	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	3399	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	3421	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	3925	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	4520	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	4789	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	5194	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	5262	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	6800	DG	O3'-P-O5'	-12.79	84.82	104.00
74	G6	7	DG	O3'-P-O5'	-12.79	84.81	104.00
93	I2	41	DG	O3'-P-O5'	-12.79	84.81	104.00
238	X9	7	DG	O3'-P-O5'	-12.79	84.82	104.00
64	F7	20	DG	O3'-P-O5'	-12.79	84.82	104.00
108	J7	53	DG	O3'-P-O5'	-12.79	84.82	104.00
119	K7	9	DG	O3'-P-O5'	-12.79	84.82	104.00
121	K9	9	DG	O3'-P-O5'	-12.79	84.82	104.00
126	L2	24	DG	O3'-P-O5'	-12.79	84.82	104.00
134	LC	12	DG	O3'-P-O5'	-12.79	84.82	104.00
136	M2	8	DG	O3'-P-O5'	-12.79	84.82	104.00
150	N7	20	DG	O3'-P-O5'	-12.79	84.82	104.00
155	ND	14	DG	O3'-P-O5'	-12.79	84.82	104.00
154	NC	6	DG	O3'-P-O5'	-12.79	84.82	104.00
157	O3	1	DG	O3'-P-O5'	-12.79	84.82	104.00
196	S5	22	DG	O3'-P-O5'	-12.79	84.82	104.00
163	OA	4	DG	O3'-P-O5'	-12.79	84.82	104.00
234	W9	12	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	3633	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	6768	DG	O3'-P-O5'	-12.79	84.82	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	E1	26	DG	O3'-P-O5'	-12.79	84.82	104.00
59	F1	18	DG	O3'-P-O5'	-12.79	84.82	104.00
161	O8	28	DG	O3'-P-O5'	-12.79	84.82	104.00
190	R9	13	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	891	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	3409	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	3684	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	3946	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	4650	DG	O3'-P-O5'	-12.78	84.82	104.00
11	AB	4823	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	5249	DG	O3'-P-O5'	-12.79	84.82	104.00
11	AB	5743	DG	O3'-P-O5'	-12.79	84.82	104.00
14	B1	27	DG	O3'-P-O5'	-12.79	84.82	104.00
55	E9	29	DG	O3'-P-O5'	-12.79	84.82	104.00
34	CA	11	DG	O3'-P-O5'	-12.78	84.82	104.00
74	G6	9	DG	O3'-P-O5'	-12.79	84.82	104.00
113	JD	1	DG	O3'-P-O5'	-12.79	84.82	104.00
90	HC	25	DG	O3'-P-O5'	-12.78	84.82	104.00
95	I5	38	DG	O3'-P-O5'	-12.78	84.82	104.00
102	ID	24	DG	O3'-P-O5'	-12.79	84.82	104.00
107	J6	12	DG	O3'-P-O5'	-12.79	84.82	104.00
153	NA	7	DG	O3'-P-O5'	-12.79	84.82	104.00
187	R5	37	DG	O3'-P-O5'	-12.79	84.82	104.00
145	MD	55	DG	O3'-P-O5'	-12.78	84.82	104.00
175	PD	8	DG	O3'-P-O5'	-12.78	84.83	104.00
194	S2	12	DG	O3'-P-O5'	-12.78	84.82	104.00
206	T7	21	DG	O3'-P-O5'	-12.79	84.82	104.00
6	A6	6	DG	O3'-P-O5'	-12.78	84.83	104.00
9	A9	10	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	38	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	124	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	4042	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	4114	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	5048	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	138	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	289	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	303	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	940	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	1029	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	1194	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	1450	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	1470	DG	O3'-P-O5'	-12.78	84.83	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1721	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	5346	DG	O3'-P-O5'	-12.78	84.83	104.00
93	I2	38	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	2951	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	3100	DG	O3'-P-O5'	-12.78	84.83	104.00
187	R5	21	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	3230	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	5425	DG	O3'-P-O5'	-12.78	84.83	104.00
21	B8	16	DG	O3'-P-O5'	-12.78	84.83	104.00
24	BC	6	DG	O3'-P-O5'	-12.78	84.83	104.00
25	BD	10	DG	O3'-P-O5'	-12.78	84.83	104.00
31	C7	20	DG	O3'-P-O5'	-12.78	84.83	104.00
121	K9	27	DG	O3'-P-O5'	-12.78	84.83	104.00
87	H8	21	DG	O3'-P-O5'	-12.78	84.83	104.00
122	KA	44	DG	O3'-P-O5'	-12.78	84.83	104.00
131	L8	27	DG	O3'-P-O5'	-12.78	84.83	104.00
153	NA	22	DG	O3'-P-O5'	-12.78	84.83	104.00
154	NC	21	DG	O3'-P-O5'	-12.78	84.83	104.00
170	P7	17	DG	O3'-P-O5'	-12.78	84.83	104.00
212	U2	13	DG	O3'-P-O5'	-12.78	84.83	104.00
226	V9	16	DG	O3'-P-O5'	-12.78	84.83	104.00
231	W5	24	DG	O3'-P-O5'	-12.78	84.83	104.00
232	W7	12	DG	O3'-P-O5'	-12.78	84.83	104.00
3	A3	20	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	3419	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	4976	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	5273	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	5421	DG	O3'-P-O5'	-12.78	84.83	104.00
156	O2	19	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	32	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	70	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	3238	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	3544	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	3753	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	5909	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	4558	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	5042	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	5956	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	6518	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	6616	DG	O3'-P-O5'	-12.78	84.83	104.00
18	B5	13	DG	O3'-P-O5'	-12.78	84.83	104.00
31	C7	23	DG	O3'-P-O5'	-12.78	84.83	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	D8	5	DG	O3'-P-O5'	-12.78	84.83	104.00
83	H3	19	DG	O3'-P-O5'	-12.78	84.83	104.00
93	I2	22	DG	O3'-P-O5'	-12.78	84.83	104.00
102	ID	17	DG	O3'-P-O5'	-12.78	84.83	104.00
137	M3	17	DG	O3'-P-O5'	-12.78	84.83	104.00
159	O6	20	DG	O3'-P-O5'	-12.78	84.83	104.00
182	QA	11	DG	O3'-P-O5'	-12.78	84.83	104.00
183	QC	19	DG	O3'-P-O5'	-12.78	84.83	104.00
205	T5	22	DG	O3'-P-O5'	-12.78	84.83	104.00
206	T7	34	DG	O3'-P-O5'	-12.78	84.83	104.00
230	W3	19	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	26	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	2643	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	3097	DG	O3'-P-O5'	-12.78	84.84	104.00
11	AB	3723	DG	O3'-P-O5'	-12.78	84.84	104.00
11	AB	5686	DG	O3'-P-O5'	-12.78	84.83	104.00
11	AB	6115	DG	O3'-P-O5'	-12.78	84.84	104.00
11	AB	6151	DG	O3'-P-O5'	-12.78	84.84	104.00
11	AB	6665	DG	O3'-P-O5'	-12.78	84.84	104.00
19	B6	15	DG	O3'-P-O5'	-12.78	84.83	104.00
96	I6	5	DG	O3'-P-O5'	-12.78	84.83	104.00
128	L5	16	DG	O3'-P-O5'	-12.78	84.83	104.00
24	BC	23	DG	O3'-P-O5'	-12.78	84.84	104.00
29	C5	10	DG	O3'-P-O5'	-12.78	84.84	104.00
33	C9	6	DG	O3'-P-O5'	-12.78	84.84	104.00
55	E9	38	DG	O3'-P-O5'	-12.78	84.84	104.00
89	HA	28	DG	O3'-P-O5'	-12.78	84.84	104.00
95	I5	18	DG	O3'-P-O5'	-12.78	84.84	104.00
165	OD	29	DG	O3'-P-O5'	-12.78	84.84	104.00
178	Q5	9	DG	O3'-P-O5'	-12.78	84.84	104.00
194	S2	18	DG	O3'-P-O5'	-12.78	84.84	104.00
199	S9	22	DG	O3'-P-O5'	-12.78	84.84	104.00
206	T7	36	DG	O3'-P-O5'	-12.78	84.83	104.00
211	TD	23	DG	O3'-P-O5'	-12.78	84.84	104.00
11	AB	3088	DG	O3'-P-O5'	-12.77	84.84	104.00
11	AB	522	DG	O3'-P-O5'	-12.77	84.84	104.00
11	AB	762	DG	O3'-P-O5'	-12.77	84.84	104.00
11	AB	789	DG	O3'-P-O5'	-12.77	84.84	104.00
11	AB	2718	DG	O3'-P-O5'	-12.77	84.84	104.00
11	AB	3430	DG	O3'-P-O5'	-12.77	84.84	104.00
11	AB	4485	DG	O3'-P-O5'	-12.77	84.84	104.00
22	B9	22	DG	O3'-P-O5'	-12.77	84.84	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	H6	5	DG	O3'-P-O5'	-12.77	84.84	104.00
140	M7	22	DG	O3'-P-O5'	-12.77	84.84	104.00
11	AB	3796	DG	O3'-P-O5'	-12.77	84.84	104.00
11	AB	4311	DG	O3'-P-O5'	-12.77	84.84	104.00
11	AB	5488	DG	O3'-P-O5'	-12.77	84.84	104.00
11	AB	6445	DG	O3'-P-O5'	-12.77	84.84	104.00
11	AB	6514	DG	O3'-P-O5'	-12.77	84.84	104.00
11	AB	7025	DG	O3'-P-O5'	-12.77	84.84	104.00
33	C9	9	DG	O3'-P-O5'	-12.77	84.84	104.00
35	CC	7	DG	O3'-P-O5'	-12.77	84.84	104.00
74	G6	5	DG	O3'-P-O5'	-12.77	84.84	104.00
11	AB	6286	DG	O3'-P-O5'	-12.77	84.84	104.00
35	CC	22	DG	O3'-P-O5'	-12.77	84.84	104.00
38	D2	1	DG	O3'-P-O5'	-12.77	84.84	104.00
43	D8	37	DG	O3'-P-O5'	-12.77	84.84	104.00
52	E6	28	DG	O3'-P-O5'	-12.77	84.84	104.00
69	FD	40	DG	O3'-P-O5'	-12.77	84.84	104.00
102	ID	2	DG	O3'-P-O5'	-12.77	84.84	104.00
149	N6	26	DG	O3'-P-O5'	-12.77	84.84	104.00
201	SC	12	DG	O3'-P-O5'	-12.77	84.84	104.00
48	E1	5	DG	O3'-P-O5'	-12.77	84.84	104.00
90	HC	21	DG	O3'-P-O5'	-12.77	84.84	104.00
97	I7	8	DG	O3'-P-O5'	-12.77	84.84	104.00
130	L7	34	DG	O3'-P-O5'	-12.77	84.84	104.00
165	OD	6	DG	O3'-P-O5'	-12.77	84.84	104.00
219	UC	27	DG	O3'-P-O5'	-12.77	84.84	104.00
11	AB	2214	DG	O3'-P-O5'	-12.77	84.84	104.00
130	L7	1	DG	O3'-P-O5'	-12.77	84.84	104.00
11	AB	2540	DG	O3'-P-O5'	-12.77	84.85	104.00
11	AB	2628	DG	O3'-P-O5'	-12.77	84.85	104.00
11	AB	4964	DG	O3'-P-O5'	-12.77	84.84	104.00
11	AB	5560	DG	O3'-P-O5'	-12.77	84.84	104.00
27	C2	9	DG	O3'-P-O5'	-12.77	84.84	104.00
30	C6	33	DG	O3'-P-O5'	-12.77	84.85	104.00
47	DD	34	DG	O3'-P-O5'	-12.77	84.84	104.00
102	ID	21	DG	O3'-P-O5'	-12.77	84.84	104.00
146	N2	8	DG	O3'-P-O5'	-12.77	84.84	104.00
177	Q3	22	DG	O3'-P-O5'	-12.77	84.84	104.00
11	AB	3387	DG	O3'-P-O5'	-12.77	84.85	104.00
11	AB	3727	DG	O3'-P-O5'	-12.77	84.85	104.00
11	AB	5572	DG	O3'-P-O5'	-12.77	84.85	104.00
44	D9	24	DG	O3'-P-O5'	-12.77	84.85	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
206	T7	55	DG	O3'-P-O5'	-12.77	84.85	104.00
8	A8	5	DG	O3'-P-O5'	-12.77	84.85	104.00
11	AB	6931	DG	O3'-P-O5'	-12.77	84.85	104.00
10	AA	21	DG	O3'-P-O5'	-12.77	84.85	104.00
11	AB	93	DG	O3'-P-O5'	-12.77	84.85	104.00
11	AB	792	DG	O3'-P-O5'	-12.77	84.85	104.00
11	AB	1604	DG	O3'-P-O5'	-12.77	84.85	104.00
11	AB	1083	DG	O3'-P-O5'	-12.77	84.85	104.00
11	AB	5325	DG	O3'-P-O5'	-12.77	84.85	104.00
11	AB	6158	DG	O3'-P-O5'	-12.77	84.85	104.00
26	C1	19	DG	O3'-P-O5'	-12.77	84.85	104.00
66	F9	5	DG	O3'-P-O5'	-12.77	84.85	104.00
97	I7	33	DG	O3'-P-O5'	-12.77	84.85	104.00
104	J2	1	DG	O3'-P-O5'	-12.77	84.85	104.00
223	V5	32	DG	O3'-P-O5'	-12.77	84.85	104.00
141	M8	15	DG	O3'-P-O5'	-12.76	84.85	104.00
11	AB	1032	DG	O3'-P-O5'	-12.76	84.86	104.00
11	AB	5066	DG	O3'-P-O5'	-12.76	84.86	104.00
11	AB	5192	DG	O3'-P-O5'	-12.76	84.85	104.00
58	ED	19	DG	O3'-P-O5'	-12.76	84.85	104.00
92	I1	15	DG	O3'-P-O5'	-12.76	84.85	104.00
120	K8	10	DG	O3'-P-O5'	-12.76	84.85	104.00
14	B1	18	DG	O3'-P-O5'	-12.76	84.86	104.00
22	B9	9	DG	O3'-P-O5'	-12.76	84.86	104.00
29	C5	33	DG	O3'-P-O5'	-12.76	84.86	104.00
209	TA	31	DG	O3'-P-O5'	-12.76	84.85	104.00
5	A5	9	DG	O3'-P-O5'	-12.76	84.86	104.00
11	AB	2313	DG	O3'-P-O5'	-12.76	84.86	104.00
11	AB	5257	DG	O3'-P-O5'	-12.76	84.86	104.00
11	AB	6628	DG	O3'-P-O5'	-12.76	84.86	104.00
103	J1	4	DG	O3'-P-O5'	-12.76	84.86	104.00
194	S2	5	DG	O3'-P-O5'	-12.76	84.86	104.00
11	AB	6897	DG	O3'-P-O5'	-12.76	84.86	104.00
187	R5	27	DG	O3'-P-O5'	-12.76	84.86	104.00
11	AB	6458	DG	O3'-P-O5'	-12.76	84.86	104.00
101	IC	13	DG	O3'-P-O5'	-12.76	84.86	104.00
11	AB	483	DG	O3'-P-O5'	-12.76	84.87	104.00
11	AB	5552	DG	O3'-P-O5'	-12.76	84.87	104.00
85	H6	29	DG	O3'-P-O5'	-12.76	84.87	104.00
11	AB	3364	DG	O3'-P-O5'	-12.75	84.87	104.00
25	BD	7	DG	O3'-P-O5'	-12.75	84.87	104.00
116	K3	6	DG	O3'-P-O5'	-12.75	84.87	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
144	MC	1	DG	O3'-P-O5'	-12.75	84.87	104.00
11	AB	868	DG	O3'-P-O5'	-12.75	84.87	104.00
11	AB	2887	DG	O3'-P-O5'	-12.75	84.88	104.00
11	AB	6331	DG	O3'-P-O5'	-12.75	84.88	104.00
94	I3	43	DG	O3'-P-O5'	-12.75	84.88	104.00
161	O8	51	DG	O3'-P-O5'	-12.75	84.87	104.00
104	J2	13	DG	O3'-P-O5'	-12.75	84.88	104.00
11	AB	7197	DG	O3'-P-O5'	-12.75	84.88	104.00
11	AB	3458	DG	O3'-P-O5'	-12.74	84.90	104.00
11	AB	6780	DG	O3'-P-O5'	-12.73	84.90	104.00
11	AB	5054	DG	O3'-P-O5'	-12.73	84.91	104.00
11	AB	6912	DG	O3'-P-O5'	-12.72	84.92	104.00
11	AB	445	DG	O3'-P-O5'	-12.72	84.92	104.00
11	AB	2592	DG	O3'-P-O5'	-12.72	84.92	104.00
11	AB	898	DG	O3'-P-O5'	-12.71	84.94	104.00
11	AB	2734	DG	O3'-P-O5'	-12.71	84.94	104.00
11	AB	735	DG	O3'-P-O5'	-12.70	84.95	104.00
11	AB	317	DG	O3'-P-O5'	-12.68	84.98	104.00
11	AB	2360	DG	O3'-P-O5'	-12.68	84.98	104.00
11	AB	1260	DG	O3'-P-O5'	-12.66	85.01	104.00
229	VD	2	DA	O3'-P-O5'	-12.58	85.13	104.00
11	AB	3901	DA	O3'-P-O5'	-12.58	85.14	104.00
217	U9	18	DA	O3'-P-O5'	-12.57	85.14	104.00
116	K3	19	DA	O3'-P-O5'	-12.57	85.14	104.00
82	H2	31	DA	O3'-P-O5'	-12.57	85.15	104.00
213	U3	24	DA	O3'-P-O5'	-12.56	85.15	104.00
23	BA	23	DA	O3'-P-O5'	-12.56	85.16	104.00
182	QA	22	DA	O3'-P-O5'	-12.56	85.16	104.00
190	R9	40	DA	O3'-P-O5'	-12.56	85.16	104.00
125	L1	35	DA	O3'-P-O5'	-12.56	85.16	104.00
96	I6	16	DA	O3'-P-O5'	-12.56	85.16	104.00
161	O8	29	DA	O3'-P-O5'	-12.56	85.16	104.00
168	P5	17	DA	O3'-P-O5'	-12.56	85.16	104.00
11	AB	6590	DA	O3'-P-O5'	-12.56	85.16	104.00
238	X9	21	DA	O3'-P-O5'	-12.56	85.16	104.00
1	A1	6	DA	O3'-P-O5'	-12.56	85.16	104.00
11	AB	364	DA	O3'-P-O5'	-12.56	85.16	104.00
61	F3	24	DA	O3'-P-O5'	-12.56	85.16	104.00
71	G2	12	DA	O3'-P-O5'	-12.56	85.16	104.00
210	TC	5	DA	O3'-P-O5'	-12.56	85.17	104.00
110	J9	6	DA	O3'-P-O5'	-12.56	85.17	104.00
188	R7	22	DA	O3'-P-O5'	-12.56	85.17	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4330	DA	O3'-P-O5'	-12.55	85.17	104.00
167	P3	20	DA	O3'-P-O5'	-12.55	85.17	104.00
206	T7	29	DA	O3'-P-O5'	-12.55	85.17	104.00
72	G3	23	DA	O3'-P-O5'	-12.55	85.17	104.00
105	J3	14	DA	O3'-P-O5'	-12.55	85.17	104.00
135	LD	11	DA	O3'-P-O5'	-12.55	85.17	104.00
196	S5	23	DA	O3'-P-O5'	-12.55	85.17	104.00
11	AB	553	DA	O3'-P-O5'	-12.55	85.17	104.00
11	AB	4764	DA	O3'-P-O5'	-12.55	85.17	104.00
11	AB	5439	DA	O3'-P-O5'	-12.55	85.17	104.00
11	AB	5625	DA	O3'-P-O5'	-12.55	85.17	104.00
163	OA	9	DA	O3'-P-O5'	-12.55	85.17	104.00
11	AB	7200	DA	O3'-P-O5'	-12.55	85.17	104.00
87	H8	10	DA	O3'-P-O5'	-12.55	85.17	104.00
202	SD	18	DA	O3'-P-O5'	-12.55	85.17	104.00
237	X7	6	DA	O3'-P-O5'	-12.55	85.17	104.00
238	X9	58	DA	O3'-P-O5'	-12.55	85.17	104.00
11	AB	5165	DA	O3'-P-O5'	-12.55	85.18	104.00
75	G7	2	DA	O3'-P-O5'	-12.55	85.18	104.00
104	J2	17	DA	O3'-P-O5'	-12.55	85.18	104.00
108	J7	45	DA	O3'-P-O5'	-12.55	85.18	104.00
111	JA	14	DA	O3'-P-O5'	-12.55	85.18	104.00
210	TC	11	DA	O3'-P-O5'	-12.55	85.18	104.00
226	V9	20	DA	O3'-P-O5'	-12.55	85.18	104.00
2	A2	20	DA	O3'-P-O5'	-12.54	85.18	104.00
11	AB	4443	DA	O3'-P-O5'	-12.55	85.18	104.00
11	AB	5938	DA	O3'-P-O5'	-12.55	85.18	104.00
47	DD	18	DA	O3'-P-O5'	-12.55	85.18	104.00
60	F2	3	DA	O3'-P-O5'	-12.55	85.18	104.00
124	KD	3	DA	O3'-P-O5'	-12.55	85.18	104.00
11	AB	657	DA	O3'-P-O5'	-12.54	85.18	104.00
11	AB	2259	DA	O3'-P-O5'	-12.54	85.18	104.00
28	C3	22	DA	O3'-P-O5'	-12.54	85.18	104.00
81	H1	9	DA	O3'-P-O5'	-12.54	85.18	104.00
113	JD	23	DA	O3'-P-O5'	-12.54	85.19	104.00
126	L2	57	DA	O3'-P-O5'	-12.54	85.18	104.00
129	L6	27	DA	O3'-P-O5'	-12.54	85.18	104.00
148	N5	15	DA	O3'-P-O5'	-12.54	85.18	104.00
177	Q3	14	DA	O3'-P-O5'	-12.54	85.18	104.00
196	S5	6	DA	O3'-P-O5'	-12.55	85.18	104.00
231	W5	33	DA	O3'-P-O5'	-12.54	85.18	104.00
234	W9	17	DA	O3'-P-O5'	-12.54	85.18	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5929	DA	O3'-P-O5'	-12.54	85.19	104.00
52	E6	19	DA	O3'-P-O5'	-12.54	85.19	104.00
11	AB	1399	DA	O3'-P-O5'	-12.54	85.19	104.00
11	AB	5144	DA	O3'-P-O5'	-12.54	85.19	104.00
60	F2	28	DA	O3'-P-O5'	-12.54	85.19	104.00
90	HC	11	DA	O3'-P-O5'	-12.54	85.19	104.00
99	I9	2	DA	O3'-P-O5'	-12.54	85.19	104.00
125	L1	4	DA	O3'-P-O5'	-12.54	85.19	104.00
212	U2	24	DA	O3'-P-O5'	-12.54	85.19	104.00
130	L7	59	DA	O3'-P-O5'	-12.54	85.19	104.00
160	O7	39	DA	O3'-P-O5'	-12.54	85.19	104.00
164	OC	9	DA	O3'-P-O5'	-12.54	85.19	104.00
11	AB	742	DA	O3'-P-O5'	-12.54	85.19	104.00
11	AB	1064	DA	O3'-P-O5'	-12.54	85.19	104.00
11	AB	7098	DA	O3'-P-O5'	-12.54	85.19	104.00
22	B9	31	DA	O3'-P-O5'	-12.54	85.19	104.00
10	AA	9	DA	O3'-P-O5'	-12.54	85.19	104.00
11	AB	1051	DA	O3'-P-O5'	-12.54	85.19	104.00
11	AB	1327	DA	O3'-P-O5'	-12.54	85.19	104.00
11	AB	2577	DA	O3'-P-O5'	-12.54	85.19	104.00
11	AB	3050	DA	O3'-P-O5'	-12.54	85.19	104.00
11	AB	4581	DA	O3'-P-O5'	-12.54	85.19	104.00
11	AB	3935	DA	O3'-P-O5'	-12.54	85.19	104.00
11	AB	4115	DA	O3'-P-O5'	-12.54	85.19	104.00
11	AB	5407	DA	O3'-P-O5'	-12.54	85.19	104.00
18	B5	16	DA	O3'-P-O5'	-12.54	85.19	104.00
52	E6	5	DA	O3'-P-O5'	-12.54	85.19	104.00
67	FA	28	DA	O3'-P-O5'	-12.54	85.19	104.00
88	H9	18	DA	O3'-P-O5'	-12.54	85.19	104.00
125	L1	39	DA	O3'-P-O5'	-12.54	85.19	104.00
156	O2	7	DA	O3'-P-O5'	-12.54	85.19	104.00
171	P8	16	DA	O3'-P-O5'	-12.54	85.19	104.00
127	L3	16	DA	O3'-P-O5'	-12.54	85.19	104.00
143	MA	23	DA	O3'-P-O5'	-12.54	85.19	104.00
226	V9	29	DA	O3'-P-O5'	-12.54	85.19	104.00
237	X7	14	DA	O3'-P-O5'	-12.54	85.19	104.00
1	A1	49	DA	O3'-P-O5'	-12.54	85.20	104.00
11	AB	682	DA	O3'-P-O5'	-12.54	85.20	104.00
11	AB	839	DA	O3'-P-O5'	-12.54	85.20	104.00
11	AB	1505	DA	O3'-P-O5'	-12.54	85.20	104.00
11	AB	1722	DA	O3'-P-O5'	-12.54	85.20	104.00
11	AB	4876	DA	O3'-P-O5'	-12.54	85.20	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	E6	36	DA	O3'-P-O5'	-12.54	85.20	104.00
11	AB	210	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	693	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	829	DA	O3'-P-O5'	-12.54	85.20	104.00
11	AB	1389	DA	O3'-P-O5'	-12.54	85.20	104.00
11	AB	5310	DA	O3'-P-O5'	-12.54	85.20	104.00
11	AB	2975	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	4246	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	5603	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	5623	DA	O3'-P-O5'	-12.54	85.20	104.00
11	AB	5980	DA	O3'-P-O5'	-12.54	85.20	104.00
78	GA	15	DA	O3'-P-O5'	-12.54	85.20	104.00
106	J5	1	DA	O3'-P-O5'	-12.54	85.19	104.00
107	J6	33	DA	O3'-P-O5'	-12.54	85.19	104.00
85	H6	8	DA	O3'-P-O5'	-12.53	85.20	104.00
101	IC	21	DA	O3'-P-O5'	-12.53	85.20	104.00
105	J3	22	DA	O3'-P-O5'	-12.53	85.20	104.00
126	L2	7	DA	O3'-P-O5'	-12.54	85.20	104.00
140	M7	7	DA	O3'-P-O5'	-12.54	85.20	104.00
147	N3	22	DA	O3'-P-O5'	-12.53	85.20	104.00
156	O2	51	DA	O3'-P-O5'	-12.54	85.20	104.00
162	O9	6	DA	O3'-P-O5'	-12.54	85.20	104.00
219	UC	29	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	240	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	4907	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	255	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	1238	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	1578	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	2052	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	4440	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	4547	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	4670	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	4861	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	5090	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	5990	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	6230	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	7224	DA	O3'-P-O5'	-12.53	85.20	104.00
27	C2	15	DA	O3'-P-O5'	-12.53	85.20	104.00
43	D8	16	DA	O3'-P-O5'	-12.53	85.20	104.00
198	S8	44	DA	O3'-P-O5'	-12.53	85.20	104.00
30	C6	39	DA	O3'-P-O5'	-12.53	85.20	104.00
73	G5	11	DA	O3'-P-O5'	-12.53	85.20	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
145	MD	31	DA	O3'-P-O5'	-12.53	85.20	104.00
195	S3	10	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	523	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	6617	DA	O3'-P-O5'	-12.53	85.20	104.00
42	D7	12	DA	O3'-P-O5'	-12.53	85.20	104.00
78	GA	5	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	342	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	736	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	1080	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	1809	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	2331	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	2582	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	3673	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	4799	DA	O3'-P-O5'	-12.53	85.21	104.00
177	Q3	7	DA	O3'-P-O5'	-12.53	85.20	104.00
11	AB	4930	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	5153	DA	O3'-P-O5'	-12.53	85.21	104.00
24	BC	29	DA	O3'-P-O5'	-12.53	85.21	104.00
30	C6	22	DA	O3'-P-O5'	-12.53	85.21	104.00
151	N8	4	DA	O3'-P-O5'	-12.53	85.21	104.00
158	O5	18	DA	O3'-P-O5'	-12.53	85.21	104.00
184	QD	1	DA	O3'-P-O5'	-12.53	85.21	104.00
187	R5	8	DA	O3'-P-O5'	-12.53	85.21	104.00
208	T9	8	DA	O3'-P-O5'	-12.53	85.21	104.00
214	U5	4	DA	O3'-P-O5'	-12.53	85.21	104.00
227	VA	26	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	324	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	2496	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	3184	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	4381	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	1996	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	4359	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	4388	DA	O3'-P-O5'	-12.53	85.21	104.00
70	G1	9	DA	O3'-P-O5'	-12.53	85.21	104.00
79	GC	23	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	4781	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	6015	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	6251	DA	O3'-P-O5'	-12.53	85.21	104.00
160	O7	32	DA	O3'-P-O5'	-12.53	85.21	104.00
194	S2	10	DA	O3'-P-O5'	-12.53	85.21	104.00
11	AB	6952	DA	O3'-P-O5'	-12.53	85.21	104.00
76	G8	13	DA	O3'-P-O5'	-12.53	85.21	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	J6	17	DA	O3'-P-O5'	-12.53	85.21	104.00
109	J8	46	DA	O3'-P-O5'	-12.53	85.21	104.00
156	O2	55	DA	O3'-P-O5'	-12.53	85.21	104.00
164	OC	7	DA	O3'-P-O5'	-12.53	85.21	104.00
235	WD	7	DA	O3'-P-O5'	-12.53	85.21	104.00
238	X9	13	DA	O3'-P-O5'	-12.53	85.21	104.00
7	A7	30	DA	O3'-P-O5'	-12.52	85.22	104.00
8	A8	20	DA	O3'-P-O5'	-12.52	85.21	104.00
11	AB	600	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	4838	DA	O3'-P-O5'	-12.52	85.21	104.00
15	B2	7	DA	O3'-P-O5'	-12.52	85.21	104.00
84	H5	1	DA	O3'-P-O5'	-12.52	85.22	104.00
94	I3	4	DA	O3'-P-O5'	-12.52	85.21	104.00
117	K5	18	DA	O3'-P-O5'	-12.52	85.22	104.00
145	MD	48	DA	O3'-P-O5'	-12.52	85.21	104.00
149	N6	34	DA	O3'-P-O5'	-12.52	85.21	104.00
182	QA	16	DA	O3'-P-O5'	-12.52	85.22	104.00
199	S9	8	DA	O3'-P-O5'	-12.52	85.21	104.00
1	A1	9	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	700	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	1940	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	2189	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	3338	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	5584	DA	O3'-P-O5'	-12.52	85.21	104.00
11	AB	5715	DA	O3'-P-O5'	-12.52	85.22	104.00
190	R9	43	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	2616	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	2959	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	3484	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	3496	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	3609	DA	O3'-P-O5'	-12.52	85.22	104.00
31	C7	32	DA	O3'-P-O5'	-12.52	85.21	104.00
54	E8	20	DA	O3'-P-O5'	-12.52	85.21	104.00
57	EC	3	DA	O3'-P-O5'	-12.52	85.21	104.00
221	V2	26	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	3577	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	3853	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	4034	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	4451	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	4887	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	5524	DA	O3'-P-O5'	-12.52	85.22	104.00
149	N6	18	DA	O3'-P-O5'	-12.52	85.22	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5142	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	6102	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	6166	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	6363	DA	O3'-P-O5'	-12.52	85.22	104.00
19	B6	11	DA	O3'-P-O5'	-12.52	85.22	104.00
99	I9	6	DA	O3'-P-O5'	-12.52	85.22	104.00
29	C5	25	DA	O3'-P-O5'	-12.52	85.22	104.00
44	D9	9	DA	O3'-P-O5'	-12.52	85.22	104.00
61	F3	19	DA	O3'-P-O5'	-12.52	85.22	104.00
91	HD	23	DA	O3'-P-O5'	-12.52	85.22	104.00
237	X7	19	DA	O3'-P-O5'	-12.52	85.22	104.00
120	K8	13	DA	O3'-P-O5'	-12.52	85.22	104.00
120	K8	16	DA	O3'-P-O5'	-12.52	85.22	104.00
132	L9	15	DA	O3'-P-O5'	-12.52	85.22	104.00
167	P3	18	DA	O3'-P-O5'	-12.52	85.22	104.00
178	Q5	2	DA	O3'-P-O5'	-12.52	85.22	104.00
182	QA	4	DA	O3'-P-O5'	-12.52	85.22	104.00
183	QC	17	DA	O3'-P-O5'	-12.52	85.22	104.00
224	V7	11	DA	O3'-P-O5'	-12.52	85.22	104.00
238	X9	34	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	1149	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	1318	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	1920	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	2465	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	3802	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	4123	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	4267	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	5988	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	5219	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	6073	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	6804	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	6950	DA	O3'-P-O5'	-12.52	85.22	104.00
44	D9	12	DA	O3'-P-O5'	-12.52	85.22	104.00
45	DA	17	DA	O3'-P-O5'	-12.52	85.22	104.00
59	F1	16	DA	O3'-P-O5'	-12.52	85.22	104.00
85	H6	34	DA	O3'-P-O5'	-12.52	85.22	104.00
114	K1	4	DA	O3'-P-O5'	-12.52	85.22	104.00
128	L5	17	DA	O3'-P-O5'	-12.52	85.22	104.00
137	M3	31	DA	O3'-P-O5'	-12.52	85.22	104.00
147	N3	9	DA	O3'-P-O5'	-12.52	85.22	104.00
189	R8	18	DA	O3'-P-O5'	-12.52	85.22	104.00
93	I2	17	DA	O3'-P-O5'	-12.52	85.22	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
95	I5	2	DA	O3'-P-O5'	-12.52	85.22	104.00
178	Q5	41	DA	O3'-P-O5'	-12.52	85.22	104.00
198	S8	36	DA	O3'-P-O5'	-12.52	85.22	104.00
209	TA	38	DA	O3'-P-O5'	-12.52	85.22	104.00
237	X7	16	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	1729	DA	O3'-P-O5'	-12.52	85.23	104.00
11	AB	1891	DA	O3'-P-O5'	-12.52	85.23	104.00
11	AB	2215	DA	O3'-P-O5'	-12.52	85.23	104.00
11	AB	2382	DA	O3'-P-O5'	-12.52	85.23	104.00
11	AB	3463	DA	O3'-P-O5'	-12.52	85.23	104.00
11	AB	4051	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	4103	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	5426	DA	O3'-P-O5'	-12.52	85.22	104.00
11	AB	4027	DA	O3'-P-O5'	-12.52	85.23	104.00
11	AB	5619	DA	O3'-P-O5'	-12.52	85.23	104.00
11	AB	7244	DA	O3'-P-O5'	-12.52	85.22	104.00
12	AC	6	DA	O3'-P-O5'	-12.52	85.22	104.00
69	FD	42	DA	O3'-P-O5'	-12.52	85.22	104.00
32	C8	33	DA	O3'-P-O5'	-12.52	85.23	104.00
60	F2	33	DA	O3'-P-O5'	-12.52	85.22	104.00
84	H5	28	DA	O3'-P-O5'	-12.52	85.23	104.00
86	H7	5	DA	O3'-P-O5'	-12.52	85.22	104.00
93	I2	1	DA	O3'-P-O5'	-12.52	85.23	104.00
105	J3	29	DA	O3'-P-O5'	-12.52	85.22	104.00
115	K2	28	DA	O3'-P-O5'	-12.52	85.23	104.00
139	M6	16	DA	O3'-P-O5'	-12.52	85.23	104.00
143	MA	17	DA	O3'-P-O5'	-12.52	85.23	104.00
161	O8	33	DA	O3'-P-O5'	-12.52	85.23	104.00
173	PA	27	DA	O3'-P-O5'	-12.52	85.23	104.00
173	PA	34	DA	O3'-P-O5'	-12.52	85.22	104.00
198	S8	16	DA	O3'-P-O5'	-12.52	85.22	104.00
222	V3	15	DA	O3'-P-O5'	-12.52	85.23	104.00
225	V8	25	DA	O3'-P-O5'	-12.52	85.23	104.00
238	X9	42	DA	O3'-P-O5'	-12.52	85.23	104.00
3	A3	6	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	528	DA	O3'-P-O5'	-12.51	85.23	104.00
205	T5	13	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	669	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	2146	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	2223	DA	O3'-P-O5'	-12.51	85.23	104.00
14	B1	30	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	2433	DA	O3'-P-O5'	-12.51	85.23	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2953	DA	O3'-P-O5'	-12.51	85.23	104.00
156	O2	37	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	4178	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	4342	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	4973	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	6027	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	6347	DA	O3'-P-O5'	-12.51	85.23	104.00
35	CC	9	DA	O3'-P-O5'	-12.51	85.23	104.00
48	E1	29	DA	O3'-P-O5'	-12.51	85.23	104.00
63	F6	14	DA	O3'-P-O5'	-12.51	85.23	104.00
75	G7	5	DA	O3'-P-O5'	-12.51	85.23	104.00
93	I2	12	DA	O3'-P-O5'	-12.51	85.23	104.00
94	I3	18	DA	O3'-P-O5'	-12.51	85.23	104.00
173	PA	8	DA	O3'-P-O5'	-12.51	85.23	104.00
113	JD	27	DA	O3'-P-O5'	-12.51	85.23	104.00
157	O3	5	DA	O3'-P-O5'	-12.51	85.23	104.00
187	R5	38	DA	O3'-P-O5'	-12.51	85.23	104.00
189	R8	36	DA	O3'-P-O5'	-12.51	85.23	104.00
211	TD	8	DA	O3'-P-O5'	-12.51	85.23	104.00
235	WD	15	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	514	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	678	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	1208	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	1292	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	1403	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	1785	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	2352	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	3832	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	3897	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	4378	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	4486	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	4879	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	5201	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	5445	DA	O3'-P-O5'	-12.51	85.23	104.00
13	AD	17	DA	O3'-P-O5'	-12.51	85.23	104.00
210	TC	26	DA	O3'-P-O5'	-12.51	85.23	104.00
11	AB	6116	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	6763	DA	O3'-P-O5'	-12.51	85.23	104.00
29	C5	22	DA	O3'-P-O5'	-12.51	85.24	104.00
35	CC	26	DA	O3'-P-O5'	-12.51	85.23	104.00
43	D8	38	DA	O3'-P-O5'	-12.51	85.23	104.00
89	HA	21	DA	O3'-P-O5'	-12.51	85.23	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
94	I3	51	DA	O3'-P-O5'	-12.51	85.23	104.00
103	J1	1	DA	O3'-P-O5'	-12.51	85.24	104.00
122	KA	1	DA	O3'-P-O5'	-12.51	85.23	104.00
124	KD	13	DA	O3'-P-O5'	-12.51	85.23	104.00
125	L1	27	DA	O3'-P-O5'	-12.51	85.23	104.00
156	O2	16	DA	O3'-P-O5'	-12.51	85.23	104.00
193	RD	7	DA	O3'-P-O5'	-12.51	85.23	104.00
197	S7	3	DA	O3'-P-O5'	-12.51	85.23	104.00
141	M8	16	DA	O3'-P-O5'	-12.51	85.24	104.00
184	QD	3	DA	O3'-P-O5'	-12.51	85.23	104.00
203	T2	20	DA	O3'-P-O5'	-12.51	85.24	104.00
205	T5	5	DA	O3'-P-O5'	-12.51	85.24	104.00
216	U8	15	DA	O3'-P-O5'	-12.51	85.24	104.00
227	VA	2	DA	O3'-P-O5'	-12.51	85.24	104.00
227	VA	15	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	369	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	648	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	663	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	1043	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	1368	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	2040	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	2288	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	2723	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	3190	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	4634	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	6743	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	7089	DA	O3'-P-O5'	-12.51	85.24	104.00
18	B5	24	DA	O3'-P-O5'	-12.51	85.24	104.00
46	DC	12	DA	O3'-P-O5'	-12.51	85.24	104.00
69	FD	15	DA	O3'-P-O5'	-12.51	85.24	104.00
111	JA	8	DA	O3'-P-O5'	-12.51	85.24	104.00
6	A6	13	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	104	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	259	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	2449	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	3619	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	4121	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	4288	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	4774	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	5995	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	6391	DA	O3'-P-O5'	-12.51	85.24	104.00
44	D9	3	DA	O3'-P-O5'	-12.51	85.24	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
143	MA	37	DA	O3'-P-O5'	-12.51	85.24	104.00
150	N7	17	DA	O3'-P-O5'	-12.51	85.24	104.00
29	C5	18	DA	O3'-P-O5'	-12.51	85.24	104.00
33	C9	11	DA	O3'-P-O5'	-12.51	85.24	104.00
47	DD	43	DA	O3'-P-O5'	-12.51	85.24	104.00
49	E2	42	DA	O3'-P-O5'	-12.51	85.24	104.00
104	J2	6	DA	O3'-P-O5'	-12.51	85.24	104.00
131	L8	23	DA	O3'-P-O5'	-12.51	85.24	104.00
149	N6	45	DA	O3'-P-O5'	-12.51	85.24	104.00
152	N9	33	DA	O3'-P-O5'	-12.51	85.24	104.00
184	QD	6	DA	O3'-P-O5'	-12.51	85.24	104.00
204	T3	42	DA	O3'-P-O5'	-12.51	85.24	104.00
11	AB	708	DA	O3'-P-O5'	-12.50	85.24	104.00
11	AB	3080	DA	O3'-P-O5'	-12.50	85.24	104.00
41	D6	43	DA	O3'-P-O5'	-12.50	85.24	104.00
230	W3	34	DA	O3'-P-O5'	-12.50	85.24	104.00
11	AB	349	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	1621	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	2644	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	2763	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	3259	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	3373	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	3488	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	3874	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	3922	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	3937	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	3957	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	5554	DA	O3'-P-O5'	-12.50	85.24	104.00
20	B7	7	DA	O3'-P-O5'	-12.50	85.24	104.00
51	E5	33	DA	O3'-P-O5'	-12.50	85.24	104.00
62	F5	15	DA	O3'-P-O5'	-12.50	85.24	104.00
114	K1	38	DA	O3'-P-O5'	-12.50	85.24	104.00
196	S5	19	DA	O3'-P-O5'	-12.50	85.24	104.00
11	AB	4631	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	4896	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	5211	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	6443	DA	O3'-P-O5'	-12.50	85.24	104.00
11	AB	5740	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	6609	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	6660	DA	O3'-P-O5'	-12.50	85.25	104.00
37	D1	23	DA	O3'-P-O5'	-12.50	85.25	104.00
47	DD	9	DA	O3'-P-O5'	-12.50	85.25	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	E1	31	DA	O3'-P-O5'	-12.50	85.25	104.00
55	E9	39	DA	O3'-P-O5'	-12.50	85.25	104.00
85	H6	27	DA	O3'-P-O5'	-12.50	85.24	104.00
189	R8	22	DA	O3'-P-O5'	-12.50	85.24	104.00
90	HC	18	DA	O3'-P-O5'	-12.50	85.25	104.00
130	L7	41	DA	O3'-P-O5'	-12.50	85.25	104.00
143	MA	35	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	199	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	488	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	1117	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	2102	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	2562	DA	O3'-P-O5'	-12.50	85.25	104.00
94	I3	26	DA	O3'-P-O5'	-12.50	85.25	104.00
126	L2	41	DA	O3'-P-O5'	-12.50	85.25	104.00
160	O7	28	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	2371	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	2716	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	2745	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	4251	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	4563	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	6370	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	6469	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	6702	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	6898	DA	O3'-P-O5'	-12.50	85.25	104.00
26	C1	10	DA	O3'-P-O5'	-12.50	85.25	104.00
47	DD	32	DA	O3'-P-O5'	-12.50	85.25	104.00
117	K5	9	DA	O3'-P-O5'	-12.50	85.25	104.00
134	LC	6	DA	O3'-P-O5'	-12.50	85.25	104.00
48	E1	23	DA	O3'-P-O5'	-12.50	85.25	104.00
71	G2	19	DA	O3'-P-O5'	-12.50	85.25	104.00
143	MA	25	DA	O3'-P-O5'	-12.50	85.25	104.00
156	O2	47	DA	O3'-P-O5'	-12.50	85.25	104.00
158	O5	35	DA	O3'-P-O5'	-12.50	85.25	104.00
167	P3	1	DA	O3'-P-O5'	-12.50	85.25	104.00
197	S7	1	DA	O3'-P-O5'	-12.50	85.25	104.00
201	SC	17	DA	O3'-P-O5'	-12.50	85.25	104.00
5	A5	29	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	47	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	292	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	298	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	486	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	2741	DA	O3'-P-O5'	-12.50	85.25	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3018	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	5737	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	6376	DA	O3'-P-O5'	-12.50	85.25	104.00
73	G5	19	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	1629	DA	O3'-P-O5'	-12.50	85.26	104.00
11	AB	4383	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	4912	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	4990	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	4499	DA	O3'-P-O5'	-12.50	85.26	104.00
11	AB	5333	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	6288	DA	O3'-P-O5'	-12.50	85.25	104.00
38	D2	2	DA	O3'-P-O5'	-12.50	85.25	104.00
41	D6	15	DA	O3'-P-O5'	-12.50	85.25	104.00
87	H8	23	DA	O3'-P-O5'	-12.50	85.25	104.00
97	I7	19	DA	O3'-P-O5'	-12.50	85.25	104.00
119	K7	10	DA	O3'-P-O5'	-12.50	85.25	104.00
121	K9	29	DA	O3'-P-O5'	-12.50	85.25	104.00
122	KA	45	DA	O3'-P-O5'	-12.50	85.25	104.00
126	L2	25	DA	O3'-P-O5'	-12.50	85.25	104.00
181	Q9	24	DA	O3'-P-O5'	-12.50	85.25	104.00
141	M8	8	DA	O3'-P-O5'	-12.50	85.25	104.00
202	SD	25	DA	O3'-P-O5'	-12.50	85.26	104.00
205	T5	15	DA	O3'-P-O5'	-12.50	85.25	104.00
206	T7	19	DA	O3'-P-O5'	-12.50	85.26	104.00
220	UD	21	DA	O3'-P-O5'	-12.50	85.25	104.00
221	V2	5	DA	O3'-P-O5'	-12.50	85.25	104.00
11	AB	467	DA	O3'-P-O5'	-12.49	85.26	104.00
11	AB	5148	DA	O3'-P-O5'	-12.49	85.26	104.00
11	AB	5350	DA	O3'-P-O5'	-12.49	85.26	104.00
102	ID	11	DA	O3'-P-O5'	-12.49	85.26	104.00
1	A1	44	DA	O3'-P-O5'	-12.49	85.26	104.00
11	AB	274	DA	O3'-P-O5'	-12.49	85.26	104.00
11	AB	478	DA	O3'-P-O5'	-12.49	85.26	104.00
11	AB	504	DA	O3'-P-O5'	-12.49	85.26	104.00
11	AB	1017	DA	O3'-P-O5'	-12.49	85.26	104.00
11	AB	3206	DA	O3'-P-O5'	-12.49	85.26	104.00
11	AB	5889	DA	O3'-P-O5'	-12.49	85.26	104.00
11	AB	6537	DA	O3'-P-O5'	-12.49	85.26	104.00
32	C8	21	DA	O3'-P-O5'	-12.49	85.26	104.00
104	J2	24	DA	O3'-P-O5'	-12.49	85.26	104.00
203	T2	27	DA	O3'-P-O5'	-12.49	85.26	104.00
228	VC	4	DA	O3'-P-O5'	-12.49	85.26	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5475	DA	O3'-P-O5'	-12.49	85.26	104.00
11	AB	5489	DA	O3'-P-O5'	-12.49	85.26	104.00
52	E6	12	DA	O3'-P-O5'	-12.49	85.26	104.00
58	ED	16	DA	O3'-P-O5'	-12.49	85.26	104.00
133	LA	16	DA	O3'-P-O5'	-12.49	85.26	104.00
229	VD	14	DA	O3'-P-O5'	-12.49	85.26	104.00
11	AB	6553	DA	O3'-P-O5'	-12.49	85.26	104.00
27	C2	10	DA	O3'-P-O5'	-12.49	85.26	104.00
37	D1	41	DA	O3'-P-O5'	-12.49	85.26	104.00
41	D6	25	DA	O3'-P-O5'	-12.49	85.26	104.00
48	E1	15	DA	O3'-P-O5'	-12.49	85.26	104.00
63	F6	20	DA	O3'-P-O5'	-12.49	85.26	104.00
106	J5	19	DA	O3'-P-O5'	-12.49	85.26	104.00
112	JC	9	DA	O3'-P-O5'	-12.49	85.26	104.00
141	M8	26	DA	O3'-P-O5'	-12.49	85.26	104.00
156	O2	32	DA	O3'-P-O5'	-12.49	85.26	104.00
122	KA	39	DA	O3'-P-O5'	-12.49	85.26	104.00
161	O8	19	DA	O3'-P-O5'	-12.49	85.26	104.00
165	OD	15	DA	O3'-P-O5'	-12.49	85.26	104.00
201	SC	8	DA	O3'-P-O5'	-12.49	85.26	104.00
202	SD	11	DA	O3'-P-O5'	-12.49	85.26	104.00
207	T8	15	DA	O3'-P-O5'	-12.49	85.26	104.00
1	A1	27	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	1036	DA	O3'-P-O5'	-12.49	85.26	104.00
11	AB	1195	DA	O3'-P-O5'	-12.49	85.26	104.00
11	AB	4059	DA	O3'-P-O5'	-12.49	85.26	104.00
11	AB	5121	DA	O3'-P-O5'	-12.49	85.26	104.00
11	AB	5127	DA	O3'-P-O5'	-12.49	85.26	104.00
106	J5	22	DA	O3'-P-O5'	-12.49	85.26	104.00
11	AB	77	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	462	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	748	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	1484	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	3358	DA	O3'-P-O5'	-12.49	85.26	104.00
11	AB	3877	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	4257	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	4312	DA	O3'-P-O5'	-12.49	85.26	104.00
11	AB	5415	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	5900	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	6846	DA	O3'-P-O5'	-12.49	85.26	104.00
21	B8	2	DA	O3'-P-O5'	-12.49	85.27	104.00
70	G1	2	DA	O3'-P-O5'	-12.49	85.26	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
174	PC	5	DA	O3'-P-O5'	-12.49	85.26	104.00
26	C1	26	DA	O3'-P-O5'	-12.49	85.27	104.00
38	D2	8	DA	O3'-P-O5'	-12.49	85.27	104.00
104	J2	36	DA	O3'-P-O5'	-12.49	85.27	104.00
137	M3	23	DA	O3'-P-O5'	-12.49	85.27	104.00
138	M5	3	DA	O3'-P-O5'	-12.49	85.27	104.00
1	A1	25	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	354	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	763	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	997	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	5038	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	5630	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	6972	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	7113	DA	O3'-P-O5'	-12.49	85.27	104.00
77	G9	4	DA	O3'-P-O5'	-12.49	85.27	104.00
82	H2	24	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	2447	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	2982	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	4716	DA	O3'-P-O5'	-12.49	85.27	104.00
116	K3	7	DA	O3'-P-O5'	-12.49	85.27	104.00
117	K5	7	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	6329	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	6683	DA	O3'-P-O5'	-12.49	85.27	104.00
165	OD	26	DA	O3'-P-O5'	-12.49	85.27	104.00
165	OD	38	DA	O3'-P-O5'	-12.49	85.27	104.00
192	RC	19	DA	O3'-P-O5'	-12.49	85.27	104.00
216	U8	12	DA	O3'-P-O5'	-12.49	85.27	104.00
11	AB	3228	DA	O3'-P-O5'	-12.48	85.27	104.00
11	AB	3721	DA	O3'-P-O5'	-12.48	85.27	104.00
11	AB	5189	DA	O3'-P-O5'	-12.48	85.27	104.00
11	AB	6987	DA	O3'-P-O5'	-12.48	85.28	104.00
181	Q9	6	DA	O3'-P-O5'	-12.48	85.27	104.00
22	B9	37	DA	O3'-P-O5'	-12.48	85.28	104.00
66	F9	11	DA	O3'-P-O5'	-12.48	85.27	104.00
75	G7	9	DA	O3'-P-O5'	-12.48	85.28	104.00
79	GC	10	DA	O3'-P-O5'	-12.48	85.27	104.00
98	I8	8	DA	O3'-P-O5'	-12.48	85.27	104.00
126	L2	38	DA	O3'-P-O5'	-12.48	85.27	104.00
148	N5	20	DA	O3'-P-O5'	-12.48	85.28	104.00
154	NC	22	DA	O3'-P-O5'	-12.48	85.28	104.00
159	O6	22	DA	O3'-P-O5'	-12.48	85.28	104.00
165	OD	19	DA	O3'-P-O5'	-12.48	85.27	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
198	S8	32	DA	O3'-P-O5'	-12.48	85.27	104.00
11	AB	1866	DA	O3'-P-O5'	-12.48	85.28	104.00
11	AB	5258	DA	O3'-P-O5'	-12.48	85.28	104.00
36	CD	10	DA	O3'-P-O5'	-12.48	85.28	104.00
207	T8	11	DA	O3'-P-O5'	-12.48	85.28	104.00
223	V5	29	DA	O3'-P-O5'	-12.48	85.28	104.00
11	AB	2637	DA	O3'-P-O5'	-12.48	85.28	104.00
11	AB	2896	DA	O3'-P-O5'	-12.48	85.28	104.00
11	AB	3290	DA	O3'-P-O5'	-12.48	85.28	104.00
11	AB	4372	DA	O3'-P-O5'	-12.48	85.28	104.00
11	AB	6705	DA	O3'-P-O5'	-12.48	85.28	104.00
37	D1	20	DA	O3'-P-O5'	-12.48	85.28	104.00
42	D7	16	DA	O3'-P-O5'	-12.48	85.28	104.00
97	I7	9	DA	O3'-P-O5'	-12.48	85.28	104.00
119	K7	16	DA	O3'-P-O5'	-12.48	85.28	104.00
153	NA	5	DA	O3'-P-O5'	-12.48	85.28	104.00
160	O7	10	DA	O3'-P-O5'	-12.48	85.28	104.00
176	Q2	13	DA	O3'-P-O5'	-12.48	85.28	104.00
11	AB	543	DA	O3'-P-O5'	-12.48	85.28	104.00
11	AB	2011	DA	O3'-P-O5'	-12.48	85.28	104.00
11	AB	2387	DA	O3'-P-O5'	-12.48	85.28	104.00
121	K9	23	DA	O3'-P-O5'	-12.48	85.28	104.00
11	AB	2994	DA	O3'-P-O5'	-12.48	85.29	104.00
11	AB	4704	DA	O3'-P-O5'	-12.48	85.28	104.00
11	AB	4816	DA	O3'-P-O5'	-12.48	85.28	104.00
11	AB	5344	DA	O3'-P-O5'	-12.48	85.28	104.00
11	AB	5827	DA	O3'-P-O5'	-12.48	85.28	104.00
11	AB	5851	DA	O3'-P-O5'	-12.48	85.28	104.00
25	BD	5	DA	O3'-P-O5'	-12.48	85.28	104.00
158	O5	25	DA	O3'-P-O5'	-12.48	85.28	104.00
11	AB	5830	DA	O3'-P-O5'	-12.48	85.29	104.00
11	AB	6926	DA	O3'-P-O5'	-12.48	85.28	104.00
75	G7	21	DA	O3'-P-O5'	-12.48	85.28	104.00
108	J7	41	DA	O3'-P-O5'	-12.48	85.29	104.00
122	KA	24	DA	O3'-P-O5'	-12.48	85.28	104.00
144	MC	2	DA	O3'-P-O5'	-12.48	85.29	104.00
175	PD	9	DA	O3'-P-O5'	-12.48	85.28	104.00
181	Q9	21	DA	O3'-P-O5'	-12.48	85.28	104.00
234	W9	4	DA	O3'-P-O5'	-12.48	85.28	104.00
97	I7	6	DA	O3'-P-O5'	-12.47	85.29	104.00
100	IA	10	DA	O3'-P-O5'	-12.47	85.29	104.00
103	J1	6	DA	O3'-P-O5'	-12.47	85.29	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2165	DA	O3'-P-O5'	-12.47	85.29	104.00
11	AB	5109	DA	O3'-P-O5'	-12.47	85.29	104.00
25	BD	8	DA	O3'-P-O5'	-12.47	85.29	104.00
210	TC	21	DA	O3'-P-O5'	-12.47	85.29	104.00
11	AB	98	DA	O3'-P-O5'	-12.47	85.29	104.00
11	AB	271	DA	O3'-P-O5'	-12.47	85.29	104.00
11	AB	279	DA	O3'-P-O5'	-12.47	85.30	104.00
11	AB	4566	DA	O3'-P-O5'	-12.47	85.29	104.00
11	AB	4587	DA	O3'-P-O5'	-12.47	85.29	104.00
11	AB	6844	DA	O3'-P-O5'	-12.47	85.30	104.00
41	D6	12	DA	O3'-P-O5'	-12.47	85.29	104.00
90	HC	22	DA	O3'-P-O5'	-12.47	85.29	104.00
104	J2	9	DA	O3'-P-O5'	-12.47	85.30	104.00
230	W3	15	DA	O3'-P-O5'	-12.47	85.30	104.00
11	AB	2241	DA	O3'-P-O5'	-12.47	85.30	104.00
11	AB	5962	DA	O3'-P-O5'	-12.47	85.30	104.00
35	CC	33	DA	O3'-P-O5'	-12.47	85.30	104.00
128	L5	19	DA	O3'-P-O5'	-12.47	85.30	104.00
162	O9	15	DA	O3'-P-O5'	-12.47	85.30	104.00
196	S5	15	DA	O3'-P-O5'	-12.47	85.30	104.00
11	AB	4016	DA	O3'-P-O5'	-12.47	85.30	104.00
28	C3	5	DA	O3'-P-O5'	-12.46	85.30	104.00
109	J8	8	DA	O3'-P-O5'	-12.47	85.30	104.00
164	OC	22	DA	O3'-P-O5'	-12.46	85.30	104.00
11	AB	3377	DA	O3'-P-O5'	-12.46	85.31	104.00
43	D8	22	DA	O3'-P-O5'	-12.46	85.31	104.00
123	KC	24	DA	O3'-P-O5'	-12.46	85.31	104.00
148	N5	23	DA	O3'-P-O5'	-12.46	85.31	104.00
74	G6	11	DA	O3'-P-O5'	-12.46	85.31	104.00
115	K2	35	DA	O3'-P-O5'	-12.46	85.31	104.00
11	AB	148	DA	O3'-P-O5'	-12.44	85.34	104.00
11	AB	4646	DA	O3'-P-O5'	-12.44	85.34	104.00
11	AB	5371	DA	O3'-P-O5'	-12.43	85.35	104.00
11	AB	2228	DA	O3'-P-O5'	-12.41	85.38	104.00
11	AB	5375	DT	O3'-P-O5'	-12.41	85.39	104.00
11	AB	706	DA	O3'-P-O5'	-12.41	85.39	104.00
11	AB	7163	DA	O3'-P-O5'	-12.40	85.40	104.00
11	AB	5935	DT	O3'-P-O5'	-12.39	85.41	104.00
10	AA	7	DT	O3'-P-O5'	-12.39	85.42	104.00
11	AB	6181	DT	O3'-P-O5'	-12.39	85.41	104.00
30	C6	13	DT	O3'-P-O5'	-12.39	85.42	104.00
11	AB	4728	DT	O3'-P-O5'	-12.38	85.42	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6570	DT	O3'-P-O5'	-12.38	85.42	104.00
11	AB	604	DT	O3'-P-O5'	-12.38	85.43	104.00
200	SA	24	DT	O3'-P-O5'	-12.38	85.43	104.00
11	AB	5510	DT	O3'-P-O5'	-12.38	85.43	104.00
11	AB	5530	DT	O3'-P-O5'	-12.38	85.43	104.00
11	AB	394	DT	O3'-P-O5'	-12.38	85.43	104.00
11	AB	842	DT	O3'-P-O5'	-12.38	85.43	104.00
11	AB	3165	DT	O3'-P-O5'	-12.38	85.43	104.00
45	DA	24	DT	O3'-P-O5'	-12.38	85.44	104.00
205	T5	7	DT	O3'-P-O5'	-12.38	85.43	104.00
11	AB	6720	DT	O3'-P-O5'	-12.38	85.44	104.00
11	AB	966	DT	O3'-P-O5'	-12.37	85.44	104.00
11	AB	2024	DT	O3'-P-O5'	-12.38	85.44	104.00
129	L6	20	DT	O3'-P-O5'	-12.38	85.44	104.00
134	LC	20	DT	O3'-P-O5'	-12.37	85.44	104.00
11	AB	234	DT	O3'-P-O5'	-12.37	85.44	104.00
11	AB	494	DT	O3'-P-O5'	-12.37	85.44	104.00
11	AB	720	DT	O3'-P-O5'	-12.37	85.44	104.00
11	AB	2651	DT	O3'-P-O5'	-12.37	85.44	104.00
11	AB	3300	DT	O3'-P-O5'	-12.37	85.44	104.00
11	AB	3511	DT	O3'-P-O5'	-12.37	85.44	104.00
11	AB	3826	DT	O3'-P-O5'	-12.37	85.44	104.00
11	AB	5139	DT	O3'-P-O5'	-12.37	85.44	104.00
11	AB	5396	DT	O3'-P-O5'	-12.37	85.44	104.00
11	AB	5721	DT	O3'-P-O5'	-12.37	85.44	104.00
82	H2	33	DT	O3'-P-O5'	-12.37	85.44	104.00
11	AB	5925	DT	O3'-P-O5'	-12.37	85.44	104.00
11	AB	6138	DT	O3'-P-O5'	-12.37	85.44	104.00
11	AB	6960	DT	O3'-P-O5'	-12.37	85.44	104.00
219	UC	23	DT	O3'-P-O5'	-12.37	85.44	104.00
11	AB	903	DT	O3'-P-O5'	-12.37	85.44	104.00
131	L8	6	DT	O3'-P-O5'	-12.37	85.45	104.00
5	A5	6	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	1122	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	1254	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	5698	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	6818	DT	O3'-P-O5'	-12.37	85.44	104.00
11	AB	2265	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	3112	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	5700	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	3342	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	6275	DT	O3'-P-O5'	-12.37	85.45	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6411	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	6477	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	7238	DT	O3'-P-O5'	-12.37	85.45	104.00
56	EA	17	DT	O3'-P-O5'	-12.37	85.45	104.00
145	MD	11	DT	O3'-P-O5'	-12.37	85.45	104.00
151	N8	8	DT	O3'-P-O5'	-12.37	85.45	104.00
161	O8	15	DT	O3'-P-O5'	-12.37	85.45	104.00
167	P3	7	DT	O3'-P-O5'	-12.37	85.45	104.00
217	U9	15	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	249	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	287	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	575	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	6432	DT	O3'-P-O5'	-12.37	85.45	104.00
61	F3	3	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	1225	DT	O3'-P-O5'	-12.36	85.45	104.00
11	AB	1694	DT	O3'-P-O5'	-12.36	85.45	104.00
11	AB	2608	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	3120	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	3318	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	3564	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	3662	DT	O3'-P-O5'	-12.37	85.45	104.00
13	AD	8	DT	O3'-P-O5'	-12.37	85.45	104.00
148	N5	10	DT	O3'-P-O5'	-12.37	85.45	104.00
171	P8	6	DT	O3'-P-O5'	-12.37	85.45	104.00
11	AB	4405	DT	O3'-P-O5'	-12.36	85.45	104.00
11	AB	4882	DT	O3'-P-O5'	-12.36	85.45	104.00
11	AB	5158	DT	O3'-P-O5'	-12.36	85.45	104.00
11	AB	6791	DT	O3'-P-O5'	-12.36	85.45	104.00
11	AB	6947	DT	O3'-P-O5'	-12.37	85.45	104.00
72	G3	12	DT	O3'-P-O5'	-12.36	85.45	104.00
84	H5	30	DT	O3'-P-O5'	-12.36	85.45	104.00
117	K5	12	DT	O3'-P-O5'	-12.36	85.45	104.00
156	O2	1	DT	O3'-P-O5'	-12.37	85.45	104.00
187	R5	32	DT	O3'-P-O5'	-12.36	85.45	104.00
4	A4	16	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	585	DT	O3'-P-O5'	-12.36	85.45	104.00
11	AB	1656	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	1832	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	2204	DT	O3'-P-O5'	-12.36	85.45	104.00
11	AB	2672	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	3186	DT	O3'-P-O5'	-12.36	85.45	104.00
11	AB	5528	DT	O3'-P-O5'	-12.36	85.46	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6689	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	7181	DT	O3'-P-O5'	-12.36	85.45	104.00
103	J1	16	DT	O3'-P-O5'	-12.36	85.45	104.00
215	U7	6	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	6722	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	6885	DT	O3'-P-O5'	-12.36	85.46	104.00
118	K6	14	DT	O3'-P-O5'	-12.36	85.46	104.00
172	P9	24	DT	O3'-P-O5'	-12.36	85.45	104.00
187	R5	30	DT	O3'-P-O5'	-12.36	85.45	104.00
148	N5	13	DT	O3'-P-O5'	-12.36	85.46	104.00
210	TC	7	DT	O3'-P-O5'	-12.36	85.46	104.00
224	V7	14	DT	O3'-P-O5'	-12.36	85.46	104.00
7	A7	5	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	190	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	3139	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	3974	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	195	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	847	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	4182	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	6550	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	1242	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	2397	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	2839	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	3046	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	3451	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	3527	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	3940	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	4593	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	4734	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	5173	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	5512	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	6409	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	6484	DT	O3'-P-O5'	-12.36	85.46	104.00
72	G3	9	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	6725	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	6806	DT	O3'-P-O5'	-12.36	85.46	104.00
22	B9	19	DT	O3'-P-O5'	-12.36	85.46	104.00
114	K1	41	DT	O3'-P-O5'	-12.36	85.46	104.00
171	P8	10	DT	O3'-P-O5'	-12.36	85.46	104.00
205	T5	19	DT	O3'-P-O5'	-12.36	85.46	104.00
3	A3	1	DT	O3'-P-O5'	-12.36	85.47	104.00
11	AB	1108	DT	O3'-P-O5'	-12.36	85.47	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1561	DT	O3'-P-O5'	-12.36	85.47	104.00
11	AB	1692	DT	O3'-P-O5'	-12.36	85.47	104.00
11	AB	2822	DT	O3'-P-O5'	-12.36	85.47	104.00
11	AB	2836	DT	O3'-P-O5'	-12.36	85.47	104.00
11	AB	3148	DT	O3'-P-O5'	-12.36	85.47	104.00
11	AB	3283	DT	O3'-P-O5'	-12.36	85.47	104.00
11	AB	4770	DT	O3'-P-O5'	-12.36	85.46	104.00
11	AB	6502	DT	O3'-P-O5'	-12.36	85.46	104.00
72	G3	1	DT	O3'-P-O5'	-12.36	85.47	104.00
126	L2	18	DT	O3'-P-O5'	-12.36	85.47	104.00
11	AB	3494	DT	O3'-P-O5'	-12.36	85.47	104.00
11	AB	4000	DT	O3'-P-O5'	-12.36	85.47	104.00
11	AB	4641	DT	O3'-P-O5'	-12.36	85.47	104.00
11	AB	5094	DT	O3'-P-O5'	-12.36	85.47	104.00
11	AB	6644	DT	O3'-P-O5'	-12.36	85.47	104.00
11	AB	6741	DT	O3'-P-O5'	-12.36	85.47	104.00
11	AB	7226	DT	O3'-P-O5'	-12.36	85.47	104.00
20	B7	16	DT	O3'-P-O5'	-12.36	85.47	104.00
93	I2	8	DT	O3'-P-O5'	-12.36	85.47	104.00
119	K7	7	DT	O3'-P-O5'	-12.36	85.47	104.00
163	OA	13	DT	O3'-P-O5'	-12.36	85.47	104.00
179	Q7	11	DT	O3'-P-O5'	-12.36	85.47	104.00
209	TA	23	DT	O3'-P-O5'	-12.36	85.46	104.00
211	TD	37	DT	O3'-P-O5'	-12.36	85.47	104.00
11	AB	520	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	933	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	1713	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	3453	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	3829	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	4543	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	5588	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	7020	DT	O3'-P-O5'	-12.35	85.47	104.00
32	C8	43	DT	O3'-P-O5'	-12.35	85.47	104.00
75	G7	14	DT	O3'-P-O5'	-12.35	85.47	104.00
164	OC	5	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	511	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	1498	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	1524	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	1737	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	3002	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	3268	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	3345	DT	O3'-P-O5'	-12.35	85.47	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4595	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	5599	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	5862	DT	O3'-P-O5'	-12.35	85.47	104.00
18	B5	36	DT	O3'-P-O5'	-12.35	85.47	104.00
23	BA	26	DT	O3'-P-O5'	-12.35	85.47	104.00
34	CA	14	DT	O3'-P-O5'	-12.35	85.47	104.00
49	E2	12	DT	O3'-P-O5'	-12.35	85.47	104.00
57	EC	1	DT	O3'-P-O5'	-12.35	85.47	104.00
58	ED	35	DT	O3'-P-O5'	-12.35	85.47	104.00
67	FA	11	DT	O3'-P-O5'	-12.35	85.47	104.00
156	O2	22	DT	O3'-P-O5'	-12.35	85.47	104.00
161	O8	42	DT	O3'-P-O5'	-12.35	85.47	104.00
167	P3	34	DT	O3'-P-O5'	-12.35	85.47	104.00
170	P7	6	DT	O3'-P-O5'	-12.35	85.47	104.00
177	Q3	17	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	1305	DT	O3'-P-O5'	-12.35	85.47	104.00
91	HD	10	DT	O3'-P-O5'	-12.35	85.47	104.00
5	A5	33	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	57	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	836	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	2612	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	671	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	1464	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	2210	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	2971	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	3295	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	4147	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	4933	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	5281	DT	O3'-P-O5'	-12.35	85.47	104.00
11	AB	4828	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	6271	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	7010	DT	O3'-P-O5'	-12.35	85.48	104.00
18	B5	1	DT	O3'-P-O5'	-12.35	85.48	104.00
33	C9	3	DT	O3'-P-O5'	-12.35	85.48	104.00
65	F8	5	DT	O3'-P-O5'	-12.35	85.48	104.00
83	H3	27	DT	O3'-P-O5'	-12.35	85.47	104.00
145	MD	3	DT	O3'-P-O5'	-12.35	85.47	104.00
155	ND	4	DT	O3'-P-O5'	-12.35	85.47	104.00
99	I9	15	DT	O3'-P-O5'	-12.35	85.48	104.00
103	J1	22	DT	O3'-P-O5'	-12.35	85.48	104.00
160	O7	44	DT	O3'-P-O5'	-12.35	85.47	104.00
128	L5	5	DT	O3'-P-O5'	-12.35	85.48	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
161	O8	37	DT	O3'-P-O5'	-12.35	85.48	104.00
183	QC	6	DT	O3'-P-O5'	-12.35	85.48	104.00
237	X7	11	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	417	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	569	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	777	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	1547	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	4346	DT	O3'-P-O5'	-12.35	85.48	104.00
36	CD	25	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	918	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	960	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	1229	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	1250	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	1265	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	1871	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	2250	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	2691	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	3858	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	3942	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	5460	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	5917	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	6839	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	3694	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	4254	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	5983	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	6104	DT	O3'-P-O5'	-12.35	85.48	104.00
54	E8	33	DT	O3'-P-O5'	-12.35	85.48	104.00
55	E9	16	DT	O3'-P-O5'	-12.35	85.48	104.00
111	JA	16	DT	O3'-P-O5'	-12.35	85.48	104.00
114	K1	23	DT	O3'-P-O5'	-12.35	85.48	104.00
127	L3	18	DT	O3'-P-O5'	-12.35	85.48	104.00
149	N6	10	DT	O3'-P-O5'	-12.35	85.48	104.00
156	O2	4	DT	O3'-P-O5'	-12.35	85.48	104.00
156	O2	13	DT	O3'-P-O5'	-12.35	85.48	104.00
207	T8	20	DT	O3'-P-O5'	-12.35	85.48	104.00
213	U3	3	DT	O3'-P-O5'	-12.35	85.48	104.00
210	TC	15	DT	O3'-P-O5'	-12.35	85.48	104.00
220	UD	12	DT	O3'-P-O5'	-12.35	85.48	104.00
220	UD	17	DT	O3'-P-O5'	-12.35	85.48	104.00
223	V5	4	DT	O3'-P-O5'	-12.35	85.48	104.00
11	AB	311	DT	O3'-P-O5'	-12.34	85.48	104.00
11	AB	1047	DT	O3'-P-O5'	-12.34	85.48	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2528	DT	O3'-P-O5'	-12.34	85.48	104.00
11	AB	2553	DT	O3'-P-O5'	-12.34	85.48	104.00
11	AB	2968	DT	O3'-P-O5'	-12.34	85.48	104.00
11	AB	948	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	1435	DT	O3'-P-O5'	-12.34	85.48	104.00
11	AB	3436	DT	O3'-P-O5'	-12.34	85.48	104.00
11	AB	3644	DT	O3'-P-O5'	-12.34	85.48	104.00
11	AB	5632	DT	O3'-P-O5'	-12.34	85.48	104.00
11	AB	6240	DT	O3'-P-O5'	-12.34	85.48	104.00
11	AB	6796	DT	O3'-P-O5'	-12.34	85.48	104.00
11	AB	6995	DT	O3'-P-O5'	-12.34	85.48	104.00
11	AB	7116	DT	O3'-P-O5'	-12.34	85.48	104.00
17	B4	19	DT	O3'-P-O5'	-12.34	85.48	104.00
26	C1	13	DT	O3'-P-O5'	-12.34	85.48	104.00
82	H2	17	DT	O3'-P-O5'	-12.34	85.48	104.00
230	W3	45	DT	O3'-P-O5'	-12.34	85.48	104.00
11	AB	1467	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	1580	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	1931	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	1953	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	2175	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	2845	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	3253	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	3834	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	3949	DT	O3'-P-O5'	-12.34	85.48	104.00
59	F1	12	DT	O3'-P-O5'	-12.34	85.48	104.00
11	AB	4941	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	5458	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	5470	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	6076	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	6612	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	7140	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	7167	DT	O3'-P-O5'	-12.34	85.48	104.00
21	B8	19	DT	O3'-P-O5'	-12.34	85.49	104.00
35	CC	14	DT	O3'-P-O5'	-12.34	85.49	104.00
36	CD	22	DT	O3'-P-O5'	-12.34	85.48	104.00
54	E8	14	DT	O3'-P-O5'	-12.34	85.49	104.00
146	N2	4	DT	O3'-P-O5'	-12.34	85.49	104.00
228	VC	17	DT	O3'-P-O5'	-12.34	85.48	104.00
231	W5	31	DT	O3'-P-O5'	-12.34	85.48	104.00
186	R3	17	DT	O3'-P-O5'	-12.34	85.49	104.00
1	A1	51	DT	O3'-P-O5'	-12.34	85.49	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	A7	40	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	185	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	7171	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	201	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	563	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	2058	DT	O3'-P-O5'	-12.34	85.49	104.00
198	S8	13	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	717	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	1555	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	1645	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	2099	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	2739	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	3920	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	4301	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	4695	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	5378	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	5479	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	6061	DT	O3'-P-O5'	-12.34	85.49	104.00
64	F7	16	DT	O3'-P-O5'	-12.34	85.49	104.00
137	M3	28	DT	O3'-P-O5'	-12.34	85.49	104.00
140	M7	5	DT	O3'-P-O5'	-12.34	85.49	104.00
214	U5	25	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	4385	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	4918	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	5032	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	5074	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	5213	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	5450	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	5601	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	6106	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	7057	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	7185	DT	O3'-P-O5'	-12.34	85.49	104.00
14	B1	40	DT	O3'-P-O5'	-12.34	85.49	104.00
62	F5	6	DT	O3'-P-O5'	-12.34	85.49	104.00
72	G3	18	DT	O3'-P-O5'	-12.34	85.49	104.00
95	I5	6	DT	O3'-P-O5'	-12.34	85.49	104.00
120	K8	20	DT	O3'-P-O5'	-12.34	85.49	104.00
197	S7	14	DT	O3'-P-O5'	-12.34	85.49	104.00
181	Q9	14	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	593	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	2520	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	4691	DT	O3'-P-O5'	-12.34	85.49	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5100	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	7053	DT	O3'-P-O5'	-12.34	85.49	104.00
54	E8	17	DT	O3'-P-O5'	-12.34	85.49	104.00
130	L7	31	DT	O3'-P-O5'	-12.34	85.50	104.00
171	P8	26	DT	O3'-P-O5'	-12.34	85.49	104.00
7	A7	36	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	1184	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	2026	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	4505	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	6534	DT	O3'-P-O5'	-12.34	85.49	104.00
11	AB	7076	DT	O3'-P-O5'	-12.34	85.49	104.00
47	DD	7	DT	O3'-P-O5'	-12.34	85.49	104.00
140	M7	1	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	1352	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	1491	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	1886	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	2683	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	2991	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	3523	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	3711	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	4210	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	4006	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	4040	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	4501	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	5545	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	5788	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	6133	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	6358	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	6851	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	6875	DT	O3'-P-O5'	-12.34	85.50	104.00
209	TA	40	DT	O3'-P-O5'	-12.34	85.50	104.00
39	D3	5	DT	O3'-P-O5'	-12.34	85.50	104.00
58	ED	10	DT	O3'-P-O5'	-12.34	85.50	104.00
184	QD	19	DT	O3'-P-O5'	-12.34	85.50	104.00
59	F1	6	DT	O3'-P-O5'	-12.34	85.50	104.00
82	H2	28	DT	O3'-P-O5'	-12.34	85.50	104.00
93	I2	47	DT	O3'-P-O5'	-12.34	85.50	104.00
107	J6	26	DT	O3'-P-O5'	-12.34	85.50	104.00
149	N6	6	DT	O3'-P-O5'	-12.34	85.50	104.00
180	Q8	20	DT	O3'-P-O5'	-12.34	85.50	104.00
212	U2	18	DT	O3'-P-O5'	-12.34	85.50	104.00
214	U5	2	DT	O3'-P-O5'	-12.34	85.50	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
221	V2	18	DT	O3'-P-O5'	-12.34	85.50	104.00
223	V5	24	DT	O3'-P-O5'	-12.34	85.50	104.00
230	W3	30	DT	O3'-P-O5'	-12.34	85.50	104.00
235	WD	21	DT	O3'-P-O5'	-12.34	85.50	104.00
238	X9	32	DT	O3'-P-O5'	-12.34	85.50	104.00
11	AB	80	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	447	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	1477	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	6604	DT	O3'-P-O5'	-12.33	85.50	104.00
199	S9	14	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	710	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	1071	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	1473	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	2276	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	2880	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	3615	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	5676	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	6465	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	3748	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	4529	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	6185	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	6313	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	6579	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	6865	DT	O3'-P-O5'	-12.33	85.50	104.00
31	C7	16	DT	O3'-P-O5'	-12.33	85.50	104.00
37	D1	27	DT	O3'-P-O5'	-12.33	85.50	104.00
82	H2	7	DT	O3'-P-O5'	-12.33	85.50	104.00
93	I2	39	DT	O3'-P-O5'	-12.33	85.50	104.00
128	L5	2	DT	O3'-P-O5'	-12.33	85.50	104.00
149	N6	38	DT	O3'-P-O5'	-12.33	85.50	104.00
164	OC	19	DT	O3'-P-O5'	-12.33	85.50	104.00
204	T3	12	DT	O3'-P-O5'	-12.33	85.50	104.00
208	T9	17	DT	O3'-P-O5'	-12.33	85.50	104.00
79	GC	15	DT	O3'-P-O5'	-12.33	85.50	104.00
104	J2	31	DT	O3'-P-O5'	-12.33	85.50	104.00
128	L5	13	DT	O3'-P-O5'	-12.33	85.50	104.00
178	Q5	36	DT	O3'-P-O5'	-12.33	85.50	104.00
192	RC	22	DT	O3'-P-O5'	-12.33	85.50	104.00
192	RC	26	DT	O3'-P-O5'	-12.33	85.50	104.00
197	S7	19	DT	O3'-P-O5'	-12.33	85.50	104.00
232	W7	16	DT	O3'-P-O5'	-12.33	85.50	104.00
238	X9	11	DT	O3'-P-O5'	-12.33	85.50	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	A7	22	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	6	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	825	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	1167	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	611	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	812	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	1690	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	1959	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	2108	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	3084	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	3158	DT	O3'-P-O5'	-12.33	85.50	104.00
82	H2	11	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	2424	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	2610	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	2646	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	2937	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	3144	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	3210	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	3989	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	4204	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	6334	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	6429	DT	O3'-P-O5'	-12.33	85.50	104.00
51	E5	9	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	3717	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	3903	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	4805	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	4869	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	4985	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	5508	DT	O3'-P-O5'	-12.33	85.50	104.00
11	AB	6192	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	6658	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	7204	DT	O3'-P-O5'	-12.33	85.51	104.00
14	B1	4	DT	O3'-P-O5'	-12.33	85.51	104.00
23	BA	7	DT	O3'-P-O5'	-12.33	85.50	104.00
39	D3	12	DT	O3'-P-O5'	-12.33	85.50	104.00
43	D8	30	DT	O3'-P-O5'	-12.33	85.51	104.00
62	F5	13	DT	O3'-P-O5'	-12.33	85.50	104.00
62	F5	32	DT	O3'-P-O5'	-12.33	85.51	104.00
133	LA	14	DT	O3'-P-O5'	-12.33	85.50	104.00
149	N6	41	DT	O3'-P-O5'	-12.33	85.51	104.00
215	U7	17	DT	O3'-P-O5'	-12.33	85.51	104.00
230	W3	5	DT	O3'-P-O5'	-12.33	85.51	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2769	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	4173	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	4811	DT	O3'-P-O5'	-12.33	85.51	104.00
88	H9	4	DT	O3'-P-O5'	-12.33	85.51	104.00
125	L1	19	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	166	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	173	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	356	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	625	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	888	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	1510	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	2905	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	3010	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	5105	DT	O3'-P-O5'	-12.33	85.51	104.00
101	IC	26	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	1925	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	3589	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	3625	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	4320	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	5185	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	6144	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	6201	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	6353	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	6546	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	6938	DT	O3'-P-O5'	-12.33	85.51	104.00
11	AB	7044	DT	O3'-P-O5'	-12.33	85.51	104.00
30	C6	10	DT	O3'-P-O5'	-12.33	85.51	104.00
39	D3	7	DT	O3'-P-O5'	-12.33	85.51	104.00
43	D8	19	DT	O3'-P-O5'	-12.33	85.51	104.00
58	ED	38	DT	O3'-P-O5'	-12.33	85.51	104.00
79	GC	1	DT	O3'-P-O5'	-12.33	85.51	104.00
91	HD	27	DT	O3'-P-O5'	-12.33	85.51	104.00
93	I2	4	DT	O3'-P-O5'	-12.33	85.51	104.00
107	J6	6	DT	O3'-P-O5'	-12.33	85.51	104.00
122	KA	17	DT	O3'-P-O5'	-12.33	85.51	104.00
122	KA	30	DT	O3'-P-O5'	-12.33	85.51	104.00
130	L7	24	DT	O3'-P-O5'	-12.33	85.51	104.00
139	M6	9	DT	O3'-P-O5'	-12.33	85.51	104.00
142	M9	17	DT	O3'-P-O5'	-12.33	85.51	104.00
145	MD	21	DT	O3'-P-O5'	-12.33	85.51	104.00
194	S2	1	DT	O3'-P-O5'	-12.33	85.51	104.00
233	W8	7	DT	O3'-P-O5'	-12.33	85.51	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
158	O5	47	DT	O3'-P-O5'	-12.33	85.51	104.00
226	V9	12	DT	O3'-P-O5'	-12.33	85.51	104.00
3	A3	11	DT	O3'-P-O5'	-12.32	85.51	104.00
6	A6	15	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	145	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	377	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	1075	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	1597	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	772	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	1601	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	2252	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	2480	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	2635	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	2875	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	3055	DT	O3'-P-O5'	-12.32	85.51	104.00
138	M5	12	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	2914	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	3109	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	3601	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	3762	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	4396	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	4447	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	4460	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	4835	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	5217	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	5404	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	5590	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	7148	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	6052	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	6081	DT	O3'-P-O5'	-12.32	85.51	104.00
14	B1	37	DT	O3'-P-O5'	-12.32	85.51	104.00
98	I8	20	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	6532	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	6711	DT	O3'-P-O5'	-12.32	85.52	104.00
19	B6	21	DT	O3'-P-O5'	-12.32	85.52	104.00
34	CA	18	DT	O3'-P-O5'	-12.32	85.51	104.00
108	J7	27	DT	O3'-P-O5'	-12.32	85.51	104.00
109	J8	17	DT	O3'-P-O5'	-12.32	85.51	104.00
120	K8	1	DT	O3'-P-O5'	-12.32	85.51	104.00
147	N3	33	DT	O3'-P-O5'	-12.32	85.52	104.00
163	OA	17	DT	O3'-P-O5'	-12.32	85.51	104.00
165	OD	43	DT	O3'-P-O5'	-12.32	85.51	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
203	T2	23	DT	O3'-P-O5'	-12.32	85.51	104.00
195	S3	13	DT	O3'-P-O5'	-12.32	85.52	104.00
204	T3	40	DT	O3'-P-O5'	-12.32	85.51	104.00
231	W5	15	DT	O3'-P-O5'	-12.32	85.51	104.00
232	W7	24	DT	O3'-P-O5'	-12.32	85.51	104.00
11	AB	822	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	1099	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	1992	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	2316	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	3236	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	3508	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	3732	DT	O3'-P-O5'	-12.32	85.52	104.00
194	S2	21	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	533	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	573	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	1447	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	1625	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	1813	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	2236	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	2923	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	3559	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	6283	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	7130	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	2657	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	3646	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	4012	DT	O3'-P-O5'	-12.32	85.52	104.00
92	I1	7	DT	O3'-P-O5'	-12.32	85.52	104.00
147	N3	16	DT	O3'-P-O5'	-12.32	85.52	104.00
187	R5	40	DT	O3'-P-O5'	-12.32	85.52	104.00
209	TA	20	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	4192	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	4230	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	4339	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	4545	DT	O3'-P-O5'	-12.32	85.52	104.00
21	B8	7	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	4825	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	5453	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	5477	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	5758	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	5940	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	6195	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	6914	DT	O3'-P-O5'	-12.32	85.52	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
70	G1	13	DT	O3'-P-O5'	-12.32	85.52	104.00
89	HA	31	DT	O3'-P-O5'	-12.32	85.52	104.00
159	O6	15	DT	O3'-P-O5'	-12.32	85.52	104.00
161	O8	49	DT	O3'-P-O5'	-12.32	85.52	104.00
171	P8	13	DT	O3'-P-O5'	-12.32	85.52	104.00
181	Q9	36	DT	O3'-P-O5'	-12.32	85.52	104.00
209	TA	3	DT	O3'-P-O5'	-12.32	85.52	104.00
211	TD	29	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	51	DT	O3'-P-O5'	-12.32	85.52	104.00
193	RD	18	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	116	DT	O3'-P-O5'	-12.32	85.53	104.00
11	AB	470	DT	O3'-P-O5'	-12.32	85.53	104.00
11	AB	1672	DT	O3'-P-O5'	-12.32	85.53	104.00
71	G2	7	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	1800	DT	O3'-P-O5'	-12.32	85.53	104.00
11	AB	1903	DT	O3'-P-O5'	-12.32	85.53	104.00
11	AB	2141	DT	O3'-P-O5'	-12.32	85.53	104.00
11	AB	2445	DT	O3'-P-O5'	-12.32	85.53	104.00
11	AB	2461	DT	O3'-P-O5'	-12.32	85.53	104.00
11	AB	2743	DT	O3'-P-O5'	-12.32	85.52	104.00
188	R7	19	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	2534	DT	O3'-P-O5'	-12.32	85.53	104.00
11	AB	2787	DT	O3'-P-O5'	-12.32	85.53	104.00
11	AB	3271	DT	O3'-P-O5'	-12.32	85.53	104.00
11	AB	3962	DT	O3'-P-O5'	-12.32	85.53	104.00
11	AB	3967	DT	O3'-P-O5'	-12.32	85.53	104.00
11	AB	4043	DT	O3'-P-O5'	-12.32	85.53	104.00
11	AB	4152	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	4161	DT	O3'-P-O5'	-12.32	85.53	104.00
11	AB	4367	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	4435	DT	O3'-P-O5'	-12.32	85.53	104.00
11	AB	6880	DT	O3'-P-O5'	-12.32	85.53	104.00
21	B8	10	DT	O3'-P-O5'	-12.32	85.53	104.00
36	CD	8	DT	O3'-P-O5'	-12.32	85.53	104.00
49	E2	18	DT	O3'-P-O5'	-12.32	85.53	104.00
52	E6	25	DT	O3'-P-O5'	-12.32	85.52	104.00
84	H5	37	DT	O3'-P-O5'	-12.32	85.52	104.00
138	M5	29	DT	O3'-P-O5'	-12.32	85.52	104.00
149	N6	31	DT	O3'-P-O5'	-12.32	85.52	104.00
184	QD	22	DT	O3'-P-O5'	-12.32	85.52	104.00
101	IC	16	DT	O3'-P-O5'	-12.32	85.53	104.00
176	Q2	10	DT	O3'-P-O5'	-12.32	85.53	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
178	Q5	11	DT	O3'-P-O5'	-12.32	85.52	104.00
179	Q7	5	DT	O3'-P-O5'	-12.32	85.53	104.00
180	Q8	15	DT	O3'-P-O5'	-12.32	85.52	104.00
187	R5	15	DT	O3'-P-O5'	-12.32	85.53	104.00
208	T9	14	DT	O3'-P-O5'	-12.32	85.52	104.00
11	AB	1173	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	1386	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	2207	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	2842	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	3411	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	6861	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	757	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	1206	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	1425	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	4158	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	6902	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	6977	DT	O3'-P-O5'	-12.31	85.53	104.00
100	IA	7	DT	O3'-P-O5'	-12.31	85.53	104.00
117	K5	45	DT	O3'-P-O5'	-12.31	85.53	104.00
121	K9	6	DT	O3'-P-O5'	-12.31	85.53	104.00
150	N7	8	DT	O3'-P-O5'	-12.31	85.53	104.00
186	R3	14	DT	O3'-P-O5'	-12.31	85.53	104.00
204	T3	27	DT	O3'-P-O5'	-12.31	85.53	104.00
220	UD	5	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	33	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	75	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	1276	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	4166	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	1246	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	1661	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	3075	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	3911	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	4394	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	5944	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	6156	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	6707	DT	O3'-P-O5'	-12.31	85.53	104.00
62	F5	42	DT	O3'-P-O5'	-12.31	85.53	104.00
64	F7	21	DT	O3'-P-O5'	-12.31	85.53	104.00
98	I8	11	DT	O3'-P-O5'	-12.31	85.53	104.00
213	U3	21	DT	O3'-P-O5'	-12.31	85.53	104.00
33	C9	18	DT	O3'-P-O5'	-12.31	85.53	104.00
130	L7	20	DT	O3'-P-O5'	-12.31	85.54	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
189	R8	34	DT	O3'-P-O5'	-12.31	85.53	104.00
202	SD	22	DT	O3'-P-O5'	-12.31	85.53	104.00
11	AB	39	DT	O3'-P-O5'	-12.31	85.54	104.00
11	AB	1333	DT	O3'-P-O5'	-12.31	85.54	104.00
11	AB	4171	DT	O3'-P-O5'	-12.31	85.54	104.00
11	AB	4286	DT	O3'-P-O5'	-12.31	85.54	104.00
11	AB	7137	DT	O3'-P-O5'	-12.31	85.54	104.00
73	G5	4	DT	O3'-P-O5'	-12.31	85.54	104.00
11	AB	1654	DT	O3'-P-O5'	-12.31	85.54	104.00
11	AB	1894	DT	O3'-P-O5'	-12.31	85.54	104.00
11	AB	2853	DT	O3'-P-O5'	-12.31	85.54	104.00
11	AB	5197	DT	O3'-P-O5'	-12.31	85.54	104.00
11	AB	5662	DT	O3'-P-O5'	-12.31	85.54	104.00
11	AB	6039	DT	O3'-P-O5'	-12.31	85.54	104.00
11	AB	6215	DT	O3'-P-O5'	-12.31	85.54	104.00
11	AB	6394	DT	O3'-P-O5'	-12.31	85.54	104.00
11	AB	7119	DT	O3'-P-O5'	-12.31	85.54	104.00
45	DA	6	DT	O3'-P-O5'	-12.31	85.54	104.00
51	E5	5	DT	O3'-P-O5'	-12.31	85.54	104.00
64	F7	6	DT	O3'-P-O5'	-12.31	85.54	104.00
135	LD	16	DT	O3'-P-O5'	-12.31	85.54	104.00
145	MD	26	DT	O3'-P-O5'	-12.31	85.54	104.00
166	P2	19	DT	O3'-P-O5'	-12.31	85.54	104.00
232	W7	21	DT	O3'-P-O5'	-12.31	85.54	104.00
208	T9	20	DT	O3'-P-O5'	-12.31	85.54	104.00
218	UA	9	DT	O3'-P-O5'	-12.31	85.54	104.00
11	AB	197	DT	O3'-P-O5'	-12.30	85.54	104.00
11	AB	1636	DT	O3'-P-O5'	-12.31	85.54	104.00
11	AB	3630	DT	O3'-P-O5'	-12.31	85.54	104.00
11	AB	5077	DT	O3'-P-O5'	-12.31	85.54	104.00
144	MC	18	DT	O3'-P-O5'	-12.31	85.54	104.00
11	AB	518	DT	O3'-P-O5'	-12.30	85.55	104.00
11	AB	587	DT	O3'-P-O5'	-12.30	85.54	104.00
11	AB	876	DT	O3'-P-O5'	-12.30	85.54	104.00
11	AB	2453	DT	O3'-P-O5'	-12.30	85.54	104.00
11	AB	2649	DT	O3'-P-O5'	-12.30	85.54	104.00
11	AB	4614	DT	O3'-P-O5'	-12.31	85.54	104.00
191	RA	24	DT	O3'-P-O5'	-12.31	85.54	104.00
11	AB	2935	DT	O3'-P-O5'	-12.30	85.55	104.00
11	AB	3262	DT	O3'-P-O5'	-12.30	85.54	104.00
11	AB	4503	DT	O3'-P-O5'	-12.30	85.54	104.00
158	O5	40	DT	O3'-P-O5'	-12.30	85.54	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
166	P2	23	DT	O3'-P-O5'	-12.30	85.54	104.00
178	Q5	21	DT	O3'-P-O5'	-12.30	85.55	104.00
11	AB	1189	DT	O3'-P-O5'	-12.30	85.55	104.00
11	AB	1419	DT	O3'-P-O5'	-12.30	85.55	104.00
11	AB	1585	DT	O3'-P-O5'	-12.30	85.55	104.00
11	AB	1599	DT	O3'-P-O5'	-12.30	85.55	104.00
11	AB	2151	DT	O3'-P-O5'	-12.30	85.55	104.00
11	AB	2318	DT	O3'-P-O5'	-12.30	85.55	104.00
11	AB	6525	DT	O3'-P-O5'	-12.30	85.55	104.00
11	AB	1742	DT	O3'-P-O5'	-12.30	85.55	104.00
11	AB	6382	DT	O3'-P-O5'	-12.30	85.55	104.00
11	AB	6910	DT	O3'-P-O5'	-12.30	85.55	104.00
48	E1	1	DT	O3'-P-O5'	-12.30	85.55	104.00
100	IA	20	DT	O3'-P-O5'	-12.30	85.55	104.00
11	AB	1615	DT	O3'-P-O5'	-12.30	85.55	104.00
11	AB	6277	DT	O3'-P-O5'	-12.30	85.55	104.00
55	E9	24	DT	O3'-P-O5'	-12.30	85.55	104.00
1	A1	30	DT	O3'-P-O5'	-12.30	85.56	104.00
11	AB	2412	DT	O3'-P-O5'	-12.30	85.55	104.00
11	AB	3063	DT	O3'-P-O5'	-12.30	85.56	104.00
11	AB	4978	DT	O3'-P-O5'	-12.30	85.55	104.00
234	W9	9	DT	O3'-P-O5'	-12.30	85.55	104.00
11	AB	3792	DT	O3'-P-O5'	-12.30	85.56	104.00
127	L3	10	DT	O3'-P-O5'	-12.30	85.56	104.00
11	AB	1912	DT	O3'-P-O5'	-12.29	85.56	104.00
11	AB	3640	DT	O3'-P-O5'	-12.29	85.56	104.00
11	AB	5097	DT	O3'-P-O5'	-12.29	85.56	104.00
11	AB	6111	DT	O3'-P-O5'	-12.29	85.56	104.00
11	AB	6687	DT	O3'-P-O5'	-12.30	85.56	104.00
23	BA	14	DT	O3'-P-O5'	-12.30	85.56	104.00
179	Q7	17	DT	O3'-P-O5'	-12.29	85.56	104.00
226	V9	17	DT	O3'-P-O5'	-12.29	85.56	104.00
11	AB	2663	DT	O3'-P-O5'	-12.29	85.56	104.00
11	AB	6854	DT	O3'-P-O5'	-12.29	85.56	104.00
26	C1	24	DT	O3'-P-O5'	-12.29	85.56	104.00
83	H3	14	DT	O3'-P-O5'	-12.29	85.56	104.00
11	AB	4198	DT	O3'-P-O5'	-12.29	85.56	104.00
11	AB	6785	DT	O3'-P-O5'	-12.29	85.56	104.00
94	I3	13	DT	O3'-P-O5'	-12.29	85.56	104.00
153	NA	8	DT	O3'-P-O5'	-12.29	85.56	104.00
11	AB	5959	DT	O3'-P-O5'	-12.29	85.57	104.00
167	P3	15	DT	O3'-P-O5'	-12.29	85.57	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4218	DT	O3'-P-O5'	-12.28	85.57	104.00
11	AB	5565	DT	O3'-P-O5'	-12.29	85.57	104.00
11	AB	262	DT	O3'-P-O5'	-12.28	85.58	104.00
11	AB	6979	DT	O3'-P-O5'	-12.27	85.60	104.00
11	AB	1342	DT	O3'-P-O5'	-12.27	85.60	104.00
11	AB	432	DT	O3'-P-O5'	-12.24	85.63	104.00
11	AB	2135	DT	O3'-P-O5'	-12.24	85.64	104.00
11	AB	3350	DT	O3'-P-O5'	-12.23	85.66	104.00
11	AB	2522	DT	O3'-P-O5'	-12.22	85.67	104.00
11	AB	3499	DT	O3'-P-O5'	-12.17	85.75	104.00
53	E7	4	DA	O3'-P-O5'	-11.54	86.68	104.00
191	RA	16	DA	O3'-P-O5'	-11.54	86.68	104.00
138	M5	19	DA	O3'-P-O5'	-11.54	86.69	104.00
11	AB	4620	DA	O3'-P-O5'	-11.54	86.69	104.00
11	AB	5507	DA	O3'-P-O5'	-11.54	86.69	104.00
11	AB	5816	DA	O3'-P-O5'	-11.54	86.69	104.00
94	I3	6	DA	O3'-P-O5'	-11.54	86.70	104.00
102	ID	6	DA	O3'-P-O5'	-11.54	86.70	104.00
11	AB	2085	DA	O3'-P-O5'	-11.53	86.70	104.00
11	AB	1963	DA	O3'-P-O5'	-11.53	86.70	104.00
11	AB	5369	DA	O3'-P-O5'	-11.53	86.70	104.00
51	E5	20	DA	O3'-P-O5'	-11.53	86.70	104.00
206	T7	25	DA	O3'-P-O5'	-11.53	86.70	104.00
11	AB	655	DA	O3'-P-O5'	-11.53	86.70	104.00
11	AB	850	DA	O3'-P-O5'	-11.53	86.71	104.00
149	N6	15	DA	O3'-P-O5'	-11.53	86.70	104.00
11	AB	1990	DA	O3'-P-O5'	-11.53	86.71	104.00
11	AB	2506	DA	O3'-P-O5'	-11.53	86.71	104.00
226	V9	26	DA	O3'-P-O5'	-11.53	86.70	104.00
11	AB	3303	DA	O3'-P-O5'	-11.53	86.71	104.00
228	VC	26	DA	O3'-P-O5'	-11.53	86.71	104.00
11	AB	2702	DA	O3'-P-O5'	-11.53	86.71	104.00
11	AB	1945	DA	O3'-P-O5'	-11.53	86.71	104.00
66	F9	20	DA	O3'-P-O5'	-11.53	86.71	104.00
80	GD	6	DA	O3'-P-O5'	-11.53	86.71	104.00
11	AB	3119	DA	O3'-P-O5'	-11.52	86.72	104.00
23	BA	31	DA	O3'-P-O5'	-11.52	86.72	104.00
188	R7	18	DA	O3'-P-O5'	-11.52	86.72	104.00
10	AA	6	DA	O3'-P-O5'	-11.52	86.72	104.00
11	AB	2350	DA	O3'-P-O5'	-11.52	86.72	104.00
11	AB	2804	DA	O3'-P-O5'	-11.52	86.72	104.00
11	AB	3857	DA	O3'-P-O5'	-11.52	86.72	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4793	DA	O3'-P-O5'	-11.52	86.72	104.00
11	AB	5726	DA	O3'-P-O5'	-11.52	86.72	104.00
11	AB	5811	DA	O3'-P-O5'	-11.52	86.72	104.00
11	AB	5934	DA	O3'-P-O5'	-11.52	86.72	104.00
23	BA	21	DA	O3'-P-O5'	-11.52	86.72	104.00
55	E9	8	DA	O3'-P-O5'	-11.52	86.72	104.00
107	J6	30	DA	O3'-P-O5'	-11.52	86.72	104.00
160	O7	49	DA	O3'-P-O5'	-11.52	86.72	104.00
225	V8	7	DA	O3'-P-O5'	-11.52	86.72	104.00
11	AB	193	DA	O3'-P-O5'	-11.52	86.72	104.00
11	AB	2088	DA	O3'-P-O5'	-11.52	86.72	104.00
11	AB	3029	DA	O3'-P-O5'	-11.52	86.72	104.00
30	C6	9	DA	O3'-P-O5'	-11.52	86.72	104.00
72	G3	17	DA	O3'-P-O5'	-11.52	86.72	104.00
89	HA	14	DA	O3'-P-O5'	-11.52	86.72	104.00
105	J3	11	DA	O3'-P-O5'	-11.52	86.72	104.00
123	KC	5	DA	O3'-P-O5'	-11.52	86.72	104.00
208	T9	5	DA	O3'-P-O5'	-11.52	86.72	104.00
211	TD	24	DA	O3'-P-O5'	-11.52	86.72	104.00
222	V3	1	DA	O3'-P-O5'	-11.52	86.72	104.00
11	AB	1222	DA	O3'-P-O5'	-11.52	86.72	104.00
7	A7	12	DA	O3'-P-O5'	-11.52	86.73	104.00
11	AB	606	DA	O3'-P-O5'	-11.52	86.73	104.00
11	AB	644	DA	O3'-P-O5'	-11.52	86.73	104.00
11	AB	1024	DA	O3'-P-O5'	-11.52	86.72	104.00
11	AB	2440	DA	O3'-P-O5'	-11.52	86.73	104.00
11	AB	2866	DA	O3'-P-O5'	-11.52	86.73	104.00
11	AB	3714	DA	O3'-P-O5'	-11.52	86.72	104.00
11	AB	4679	DA	O3'-P-O5'	-11.52	86.72	104.00
11	AB	3482	DA	O3'-P-O5'	-11.52	86.73	104.00
11	AB	4616	DA	O3'-P-O5'	-11.52	86.73	104.00
11	AB	5305	DA	O3'-P-O5'	-11.52	86.73	104.00
44	D9	5	DA	O3'-P-O5'	-11.52	86.73	104.00
58	ED	40	DA	O3'-P-O5'	-11.52	86.73	104.00
74	G6	24	DA	O3'-P-O5'	-11.52	86.73	104.00
146	N2	17	DA	O3'-P-O5'	-11.52	86.72	104.00
199	S9	13	DA	O3'-P-O5'	-11.52	86.72	104.00
178	Q5	10	DA	O3'-P-O5'	-11.52	86.73	104.00
182	QA	26	DA	O3'-P-O5'	-11.52	86.73	104.00
213	U3	2	DA	O3'-P-O5'	-11.52	86.73	104.00
11	AB	811	DA	O3'-P-O5'	-11.51	86.73	104.00
11	AB	1312	DA	O3'-P-O5'	-11.51	86.73	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1999	DA	O3'-P-O5'	-11.51	86.73	104.00
11	AB	2029	DA	O3'-P-O5'	-11.51	86.73	104.00
11	AB	2362	DA	O3'-P-O5'	-11.51	86.73	104.00
11	AB	2809	DA	O3'-P-O5'	-11.51	86.73	104.00
11	AB	2827	DA	O3'-P-O5'	-11.51	86.73	104.00
11	AB	3326	DA	O3'-P-O5'	-11.51	86.73	104.00
11	AB	3007	DA	O3'-P-O5'	-11.51	86.73	104.00
11	AB	3710	DA	O3'-P-O5'	-11.51	86.73	104.00
11	AB	3947	DA	O3'-P-O5'	-11.51	86.73	104.00
11	AB	6070	DA	O3'-P-O5'	-11.51	86.73	104.00
11	AB	6342	DA	O3'-P-O5'	-11.51	86.73	104.00
11	AB	6482	DA	O3'-P-O5'	-11.51	86.73	104.00
152	N9	39	DA	O3'-P-O5'	-11.51	86.73	104.00
173	PA	15	DA	O3'-P-O5'	-11.51	86.73	104.00
152	N9	16	DA	O3'-P-O5'	-11.51	86.73	104.00
157	O3	22	DA	O3'-P-O5'	-11.51	86.73	104.00
11	AB	4796	DA	O3'-P-O5'	-11.51	86.73	104.00
61	F3	2	DA	O3'-P-O5'	-11.51	86.73	104.00
11	AB	371	DA	O3'-P-O5'	-11.51	86.74	104.00
11	AB	393	DA	O3'-P-O5'	-11.51	86.74	104.00
11	AB	2502	DA	O3'-P-O5'	-11.51	86.73	104.00
11	AB	2966	DA	O3'-P-O5'	-11.51	86.73	104.00
138	M5	25	DA	O3'-P-O5'	-11.51	86.73	104.00
11	AB	6320	DA	O3'-P-O5'	-11.51	86.74	104.00
11	AB	6560	DA	O3'-P-O5'	-11.51	86.73	104.00
13	AD	7	DA	O3'-P-O5'	-11.51	86.74	104.00
40	D5	11	DA	O3'-P-O5'	-11.51	86.74	104.00
45	DA	23	DA	O3'-P-O5'	-11.51	86.74	104.00
117	K5	33	DA	O3'-P-O5'	-11.51	86.73	104.00
183	QC	8	DA	O3'-P-O5'	-11.51	86.73	104.00
229	VD	19	DA	O3'-P-O5'	-11.51	86.74	104.00
237	X7	21	DA	O3'-P-O5'	-11.51	86.73	104.00
7	A7	18	DA	O3'-P-O5'	-11.51	86.74	104.00
11	AB	6080	DA	O3'-P-O5'	-11.51	86.74	104.00
62	F5	5	DA	O3'-P-O5'	-11.51	86.74	104.00
1	A1	55	DA	O3'-P-O5'	-11.51	86.74	104.00
2	A2	9	DA	O3'-P-O5'	-11.51	86.74	104.00
11	AB	1219	DA	O3'-P-O5'	-11.51	86.74	104.00
81	H1	7	DA	O3'-P-O5'	-11.51	86.74	104.00
119	K7	36	DA	O3'-P-O5'	-11.51	86.74	104.00
5	A5	5	DA	O3'-P-O5'	-11.51	86.74	104.00
11	AB	2428	DA	O3'-P-O5'	-11.51	86.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2964	DA	O3'-P-O5'	-11.51	86.74	104.00
11	AB	4675	DA	O3'-P-O5'	-11.51	86.74	104.00
86	H7	7	DA	O3'-P-O5'	-11.51	86.74	104.00
11	AB	3279	DA	O3'-P-O5'	-11.51	86.74	104.00
11	AB	3701	DA	O3'-P-O5'	-11.51	86.74	104.00
11	AB	3929	DA	O3'-P-O5'	-11.51	86.74	104.00
11	AB	6311	DA	O3'-P-O5'	-11.51	86.74	104.00
11	AB	6656	DA	O3'-P-O5'	-11.51	86.74	104.00
11	AB	6801	DA	O3'-P-O5'	-11.51	86.74	104.00
11	AB	6894	DA	O3'-P-O5'	-11.51	86.74	104.00
11	AB	7093	DA	O3'-P-O5'	-11.51	86.74	104.00
82	H2	15	DA	O3'-P-O5'	-11.51	86.74	104.00
45	DA	5	DA	O3'-P-O5'	-11.51	86.74	104.00
98	I8	41	DA	O3'-P-O5'	-11.51	86.74	104.00
112	JC	16	DA	O3'-P-O5'	-11.51	86.74	104.00
112	JC	25	DA	O3'-P-O5'	-11.51	86.74	104.00
120	K8	18	DA	O3'-P-O5'	-11.51	86.74	104.00
126	L2	30	DA	O3'-P-O5'	-11.51	86.74	104.00
142	M9	9	DA	O3'-P-O5'	-11.51	86.74	104.00
143	MA	7	DA	O3'-P-O5'	-11.51	86.74	104.00
150	N7	7	DA	O3'-P-O5'	-11.51	86.74	104.00
162	O9	12	DA	O3'-P-O5'	-11.51	86.74	104.00
198	S8	42	DA	O3'-P-O5'	-11.51	86.74	104.00
158	O5	29	DA	O3'-P-O5'	-11.51	86.74	104.00
217	U9	25	DA	O3'-P-O5'	-11.51	86.74	104.00
221	V2	21	DA	O3'-P-O5'	-11.51	86.74	104.00
223	V5	39	DA	O3'-P-O5'	-11.51	86.74	104.00
11	AB	2487	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	238	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	1069	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	3507	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	2410	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	2706	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	2838	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	2870	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	3772	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	6891	DA	O3'-P-O5'	-11.50	86.74	104.00
40	D5	8	DA	O3'-P-O5'	-11.50	86.75	104.00
43	D8	43	DA	O3'-P-O5'	-11.50	86.74	104.00
200	SA	22	DA	O3'-P-O5'	-11.50	86.74	104.00
215	U7	8	DA	O3'-P-O5'	-11.50	86.74	104.00
11	AB	3785	DA	O3'-P-O5'	-11.50	86.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4300	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	4767	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	5073	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	5374	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	5579	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	5627	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	5879	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	6171	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	6955	DA	O3'-P-O5'	-11.50	86.75	104.00
29	C5	36	DA	O3'-P-O5'	-11.50	86.75	104.00
67	FA	9	DA	O3'-P-O5'	-11.50	86.75	104.00
69	FD	12	DA	O3'-P-O5'	-11.50	86.75	104.00
119	K7	23	DA	O3'-P-O5'	-11.50	86.75	104.00
138	M5	17	DA	O3'-P-O5'	-11.50	86.75	104.00
165	OD	46	DA	O3'-P-O5'	-11.50	86.74	104.00
177	Q3	16	DA	O3'-P-O5'	-11.50	86.75	104.00
193	RD	9	DA	O3'-P-O5'	-11.50	86.74	104.00
184	QD	18	DA	O3'-P-O5'	-11.50	86.75	104.00
193	RD	11	DA	O3'-P-O5'	-11.50	86.75	104.00
206	T7	44	DA	O3'-P-O5'	-11.50	86.75	104.00
238	X9	8	DA	O3'-P-O5'	-11.50	86.74	104.00
219	UC	22	DA	O3'-P-O5'	-11.50	86.75	104.00
7	A7	9	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	1688	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	2120	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	3335	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	3787	DA	O3'-P-O5'	-11.50	86.75	104.00
140	M7	4	DA	O3'-P-O5'	-11.50	86.75	104.00
217	U9	17	DA	O3'-P-O5'	-11.50	86.75	104.00
5	A5	16	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	1014	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	1709	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	2285	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	2999	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	3328	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	3348	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	4272	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	4281	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	4612	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	5088	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	6173	DA	O3'-P-O5'	-11.50	86.75	104.00
129	L6	18	DA	O3'-P-O5'	-11.50	86.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
155	ND	16	DA	O3'-P-O5'	-11.50	86.75	104.00
198	S8	39	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	6263	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	6663	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	7086	DA	O3'-P-O5'	-11.50	86.75	104.00
112	JC	18	DA	O3'-P-O5'	-11.50	86.75	104.00
125	L1	18	DA	O3'-P-O5'	-11.50	86.75	104.00
139	M6	8	DA	O3'-P-O5'	-11.50	86.75	104.00
190	R9	35	DA	O3'-P-O5'	-11.50	86.75	104.00
121	K9	15	DA	O3'-P-O5'	-11.50	86.75	104.00
160	O7	18	DA	O3'-P-O5'	-11.50	86.75	104.00
211	TD	36	DA	O3'-P-O5'	-11.50	86.75	104.00
225	V8	15	DA	O3'-P-O5'	-11.50	86.75	104.00
10	AA	15	DA	O3'-P-O5'	-11.50	86.76	104.00
11	AB	616	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	631	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	809	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	1830	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	2813	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	3026	DA	O3'-P-O5'	-11.50	86.76	104.00
11	AB	4723	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	4803	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	5157	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	5613	DA	O3'-P-O5'	-11.50	86.75	104.00
115	K2	25	DA	O3'-P-O5'	-11.50	86.75	104.00
208	T9	11	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	5638	DA	O3'-P-O5'	-11.50	86.76	104.00
11	AB	6501	DA	O3'-P-O5'	-11.50	86.76	104.00
11	AB	6648	DA	O3'-P-O5'	-11.50	86.75	104.00
16	B3	7	DA	O3'-P-O5'	-11.50	86.76	104.00
62	F5	37	DA	O3'-P-O5'	-11.50	86.75	104.00
115	K2	5	DA	O3'-P-O5'	-11.50	86.76	104.00
189	R8	5	DA	O3'-P-O5'	-11.50	86.75	104.00
222	V3	18	DA	O3'-P-O5'	-11.50	86.75	104.00
230	W3	10	DA	O3'-P-O5'	-11.50	86.75	104.00
236	X5	22	DA	O3'-P-O5'	-11.50	86.75	104.00
11	AB	247	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	979	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	1382	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	3286	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	5316	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	5921	DA	O3'-P-O5'	-11.49	86.76	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	E2	8	DA	O3'-P-O5'	-11.49	86.76	104.00
64	F7	3	DA	O3'-P-O5'	-11.49	86.76	104.00
75	G7	13	DA	O3'-P-O5'	-11.49	86.76	104.00
86	H7	15	DA	O3'-P-O5'	-11.49	86.76	104.00
99	I9	12	DA	O3'-P-O5'	-11.49	86.76	104.00
103	J1	10	DA	O3'-P-O5'	-11.49	86.76	104.00
128	L5	12	DA	O3'-P-O5'	-11.49	86.76	104.00
130	L7	53	DA	O3'-P-O5'	-11.49	86.76	104.00
219	UC	35	DA	O3'-P-O5'	-11.49	86.76	104.00
221	V2	3	DA	O3'-P-O5'	-11.49	86.76	104.00
230	W3	27	DA	O3'-P-O5'	-11.49	86.76	104.00
237	X7	2	DA	O3'-P-O5'	-11.49	86.76	104.00
1	A1	37	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	233	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	381	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	403	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	1021	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	1234	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	1837	DA	O3'-P-O5'	-11.49	86.76	104.00
122	KA	19	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	1308	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	1378	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	1683	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	2065	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	2092	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	2271	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	3126	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	3282	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	4848	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	5881	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	6008	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	6596	DA	O3'-P-O5'	-11.49	86.76	104.00
31	C7	10	DA	O3'-P-O5'	-11.49	86.76	104.00
39	D3	21	DA	O3'-P-O5'	-11.49	86.76	104.00
57	EC	19	DA	O3'-P-O5'	-11.49	86.76	104.00
62	F5	35	DA	O3'-P-O5'	-11.49	86.76	104.00
152	N9	49	DA	O3'-P-O5'	-11.49	86.76	104.00
220	UD	4	DA	O3'-P-O5'	-11.49	86.76	104.00
74	G6	27	DA	O3'-P-O5'	-11.49	86.76	104.00
109	J8	16	DA	O3'-P-O5'	-11.49	86.76	104.00
132	L9	17	DA	O3'-P-O5'	-11.49	86.76	104.00
190	R9	33	DA	O3'-P-O5'	-11.49	86.76	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
195	S3	27	DA	O3'-P-O5'	-11.49	86.76	104.00
210	TC	14	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	1156	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	1232	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	1532	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	3845	DA	O3'-P-O5'	-11.49	86.76	104.00
114	K1	36	DA	O3'-P-O5'	-11.49	86.76	104.00
142	M9	2	DA	O3'-P-O5'	-11.49	86.76	104.00
170	P7	5	DA	O3'-P-O5'	-11.49	86.76	104.00
3	A3	15	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	598	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	729	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	1715	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	1956	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	2200	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	2574	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	3128	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	3299	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	4352	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	4528	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	5221	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	6316	DA	O3'-P-O5'	-11.49	86.76	104.00
13	AD	19	DA	O3'-P-O5'	-11.49	86.76	104.00
11	AB	6428	DA	O3'-P-O5'	-11.49	86.77	104.00
36	CD	24	DA	O3'-P-O5'	-11.49	86.77	104.00
98	I8	28	DA	O3'-P-O5'	-11.49	86.77	104.00
125	L1	42	DA	O3'-P-O5'	-11.49	86.76	104.00
126	L2	14	DA	O3'-P-O5'	-11.49	86.76	104.00
163	OA	16	DA	O3'-P-O5'	-11.49	86.76	104.00
165	OD	48	DA	O3'-P-O5'	-11.49	86.76	104.00
109	J8	20	DA	O3'-P-O5'	-11.49	86.77	104.00
149	N6	33	DA	O3'-P-O5'	-11.49	86.77	104.00
226	V9	32	DA	O3'-P-O5'	-11.49	86.76	104.00
156	O2	3	DA	O3'-P-O5'	-11.49	86.77	104.00
156	O2	36	DA	O3'-P-O5'	-11.49	86.77	104.00
165	OD	24	DA	O3'-P-O5'	-11.49	86.77	104.00
167	P3	5	DA	O3'-P-O5'	-11.49	86.77	104.00
4	A4	15	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	562	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	973	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	1098	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	2404	DA	O3'-P-O5'	-11.49	86.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2492	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	2710	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	5226	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	1297	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	2989	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	3131	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	3613	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	5518	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	5536	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	5873	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	6944	DA	O3'-P-O5'	-11.49	86.77	104.00
55	E9	15	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	3134	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	3659	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	3693	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	5162	DA	O3'-P-O5'	-11.49	86.77	104.00
12	AC	9	DA	O3'-P-O5'	-11.49	86.77	104.00
47	DD	13	DA	O3'-P-O5'	-11.49	86.77	104.00
36	CD	21	DA	O3'-P-O5'	-11.49	86.77	104.00
58	ED	25	DA	O3'-P-O5'	-11.49	86.77	104.00
88	H9	8	DA	O3'-P-O5'	-11.49	86.77	104.00
112	JC	24	DA	O3'-P-O5'	-11.49	86.77	104.00
119	K7	5	DA	O3'-P-O5'	-11.49	86.77	104.00
142	M9	11	DA	O3'-P-O5'	-11.49	86.77	104.00
156	O2	24	DA	O3'-P-O5'	-11.49	86.77	104.00
157	O3	21	DA	O3'-P-O5'	-11.49	86.77	104.00
157	O3	3	DA	O3'-P-O5'	-11.49	86.77	104.00
222	V3	22	DA	O3'-P-O5'	-11.49	86.77	104.00
226	V9	10	DA	O3'-P-O5'	-11.49	86.77	104.00
11	AB	171	DA	O3'-P-O5'	-11.48	86.77	104.00
11	AB	692	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	821	DA	O3'-P-O5'	-11.48	86.77	104.00
11	AB	1401	DA	O3'-P-O5'	-11.48	86.77	104.00
11	AB	3125	DA	O3'-P-O5'	-11.48	86.77	104.00
226	V9	8	DA	O3'-P-O5'	-11.48	86.77	104.00
11	AB	1544	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	1549	DA	O3'-P-O5'	-11.48	86.77	104.00
11	AB	1582	DA	O3'-P-O5'	-11.48	86.77	104.00
11	AB	1842	DA	O3'-P-O5'	-11.48	86.77	104.00
11	AB	2104	DA	O3'-P-O5'	-11.48	86.77	104.00
11	AB	1860	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	2422	DA	O3'-P-O5'	-11.48	86.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3176	DA	O3'-P-O5'	-11.48	86.77	104.00
11	AB	3438	DA	O3'-P-O5'	-11.48	86.77	104.00
11	AB	4761	DA	O3'-P-O5'	-11.48	86.77	104.00
11	AB	5285	DA	O3'-P-O5'	-11.48	86.77	104.00
11	AB	5807	DA	O3'-P-O5'	-11.48	86.77	104.00
22	B9	1	DA	O3'-P-O5'	-11.48	86.77	104.00
11	AB	5452	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	5708	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	6006	DA	O3'-P-O5'	-11.48	86.77	104.00
11	AB	6068	DA	O3'-P-O5'	-11.48	86.77	104.00
11	AB	6236	DA	O3'-P-O5'	-11.48	86.77	104.00
11	AB	6507	DA	O3'-P-O5'	-11.48	86.77	104.00
40	D5	14	DA	O3'-P-O5'	-11.48	86.77	104.00
109	J8	31	DA	O3'-P-O5'	-11.48	86.77	104.00
114	K1	12	DA	O3'-P-O5'	-11.48	86.77	104.00
161	O8	3	DA	O3'-P-O5'	-11.48	86.77	104.00
180	Q8	17	DA	O3'-P-O5'	-11.48	86.77	104.00
11	AB	6643	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	6748	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	7203	DA	O3'-P-O5'	-11.48	86.78	104.00
40	D5	13	DA	O3'-P-O5'	-11.48	86.78	104.00
53	E7	8	DA	O3'-P-O5'	-11.48	86.78	104.00
55	E9	31	DA	O3'-P-O5'	-11.48	86.78	104.00
73	G5	9	DA	O3'-P-O5'	-11.48	86.77	104.00
92	I1	19	DA	O3'-P-O5'	-11.48	86.78	104.00
93	I2	32	DA	O3'-P-O5'	-11.48	86.77	104.00
158	O5	15	DA	O3'-P-O5'	-11.48	86.78	104.00
181	Q9	27	DA	O3'-P-O5'	-11.48	86.77	104.00
223	V5	14	DA	O3'-P-O5'	-11.48	86.77	104.00
183	QC	12	DA	O3'-P-O5'	-11.48	86.78	104.00
228	VC	36	DA	O3'-P-O5'	-11.48	86.78	104.00
8	A8	17	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	647	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	1301	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	1568	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	1805	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	2068	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	2600	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	3024	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	3481	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	5516	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	2677	DA	O3'-P-O5'	-11.48	86.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2796	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	3850	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	5689	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	3173	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	3179	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	3337	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	3570	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	3558	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	4010	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	4669	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	5456	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	6160	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	6322	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	6811	DA	O3'-P-O5'	-11.48	86.78	104.00
18	B5	34	DA	O3'-P-O5'	-11.48	86.78	104.00
14	B1	13	DA	O3'-P-O5'	-11.48	86.78	104.00
36	CD	15	DA	O3'-P-O5'	-11.48	86.78	104.00
41	D6	30	DA	O3'-P-O5'	-11.48	86.78	104.00
49	E2	10	DA	O3'-P-O5'	-11.48	86.78	104.00
75	G7	16	DA	O3'-P-O5'	-11.48	86.78	104.00
106	J5	25	DA	O3'-P-O5'	-11.48	86.78	104.00
145	MD	36	DA	O3'-P-O5'	-11.48	86.78	104.00
221	V2	25	DA	O3'-P-O5'	-11.48	86.78	104.00
89	HA	5	DA	O3'-P-O5'	-11.48	86.78	104.00
118	K6	5	DA	O3'-P-O5'	-11.48	86.78	104.00
149	N6	8	DA	O3'-P-O5'	-11.48	86.78	104.00
157	O3	2	DA	O3'-P-O5'	-11.48	86.78	104.00
180	Q8	19	DA	O3'-P-O5'	-11.48	86.78	104.00
221	V2	13	DA	O3'-P-O5'	-11.48	86.78	104.00
237	X7	18	DA	O3'-P-O5'	-11.48	86.78	104.00
233	W8	24	DA	O3'-P-O5'	-11.48	86.78	104.00
3	A3	3	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	251	DA	O3'-P-O5'	-11.48	86.78	104.00
10	AA	13	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	1141	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	1253	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	1565	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	1986	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	2860	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	4521	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	5400	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	5712	DA	O3'-P-O5'	-11.48	86.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5804	DA	O3'-P-O5'	-11.48	86.78	104.00
54	E8	10	DA	O3'-P-O5'	-11.48	86.78	104.00
88	H9	6	DA	O3'-P-O5'	-11.48	86.78	104.00
215	U7	3	DA	O3'-P-O5'	-11.48	86.78	104.00
230	W3	4	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	568	DA	O3'-P-O5'	-11.48	86.79	104.00
11	AB	723	DA	O3'-P-O5'	-11.48	86.79	104.00
11	AB	1374	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	2490	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	2689	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	3178	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	4423	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	4674	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	5138	DA	O3'-P-O5'	-11.48	86.79	104.00
11	AB	5540	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	6165	DA	O3'-P-O5'	-11.48	86.78	104.00
44	D9	2	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	6012	DA	O3'-P-O5'	-11.48	86.79	104.00
11	AB	6248	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	6416	DA	O3'-P-O5'	-11.48	86.78	104.00
109	J8	4	DA	O3'-P-O5'	-11.48	86.78	104.00
25	BD	22	DA	O3'-P-O5'	-11.48	86.79	104.00
43	D8	41	DA	O3'-P-O5'	-11.48	86.78	104.00
110	J9	12	DA	O3'-P-O5'	-11.48	86.78	104.00
149	N6	13	DA	O3'-P-O5'	-11.48	86.78	104.00
170	P7	9	DA	O3'-P-O5'	-11.48	86.78	104.00
181	Q9	13	DA	O3'-P-O5'	-11.48	86.78	104.00
216	U8	8	DA	O3'-P-O5'	-11.48	86.78	104.00
72	G3	8	DA	O3'-P-O5'	-11.48	86.79	104.00
126	L2	33	DA	O3'-P-O5'	-11.48	86.79	104.00
160	O7	17	DA	O3'-P-O5'	-11.48	86.78	104.00
215	U7	5	DA	O3'-P-O5'	-11.48	86.78	104.00
237	X7	9	DA	O3'-P-O5'	-11.48	86.78	104.00
11	AB	5786	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	1321	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	2358	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	2407	DA	O3'-P-O5'	-11.47	86.79	104.00
152	N9	51	DA	O3'-P-O5'	-11.47	86.79	104.00
185	R2	21	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	2903	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	2970	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	3118	DA	O3'-P-O5'	-11.47	86.79	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3137	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	3771	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	7042	DA	O3'-P-O5'	-11.47	86.79	104.00
51	E5	18	DA	O3'-P-O5'	-11.47	86.79	104.00
182	QA	3	DA	O3'-P-O5'	-11.47	86.79	104.00
224	V7	13	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	3932	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	5692	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	6641	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	6666	DA	O3'-P-O5'	-11.47	86.79	104.00
50	E3	18	DA	O3'-P-O5'	-11.47	86.79	104.00
60	F2	15	DA	O3'-P-O5'	-11.47	86.79	104.00
64	F7	2	DA	O3'-P-O5'	-11.47	86.79	104.00
93	I2	10	DA	O3'-P-O5'	-11.47	86.79	104.00
94	I3	8	DA	O3'-P-O5'	-11.47	86.79	104.00
94	I3	23	DA	O3'-P-O5'	-11.47	86.79	104.00
130	L7	12	DA	O3'-P-O5'	-11.47	86.79	104.00
130	L7	26	DA	O3'-P-O5'	-11.47	86.79	104.00
130	L7	27	DA	O3'-P-O5'	-11.47	86.79	104.00
152	N9	15	DA	O3'-P-O5'	-11.47	86.79	104.00
136	M2	20	DA	O3'-P-O5'	-11.47	86.79	104.00
146	N2	19	DA	O3'-P-O5'	-11.47	86.79	104.00
146	N2	20	DA	O3'-P-O5'	-11.47	86.79	104.00
219	UC	32	DA	O3'-P-O5'	-11.47	86.79	104.00
233	W8	22	DA	O3'-P-O5'	-11.47	86.79	104.00
235	WD	9	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	567	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	619	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	1497	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	1857	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	4432	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	5007	DA	O3'-P-O5'	-11.47	86.79	104.00
29	C5	7	DA	O3'-P-O5'	-11.47	86.79	104.00
89	HA	8	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	2191	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	2504	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	2772	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	3196	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	5014	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	6093	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	5723	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	6563	DA	O3'-P-O5'	-11.47	86.80	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6798	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	6959	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	7211	DA	O3'-P-O5'	-11.47	86.80	104.00
12	AC	11	DA	O3'-P-O5'	-11.47	86.79	104.00
71	G2	11	DA	O3'-P-O5'	-11.47	86.79	104.00
94	I3	9	DA	O3'-P-O5'	-11.47	86.79	104.00
26	C1	17	DA	O3'-P-O5'	-11.47	86.80	104.00
30	C6	8	DA	O3'-P-O5'	-11.47	86.80	104.00
47	DD	17	DA	O3'-P-O5'	-11.47	86.79	104.00
47	DD	21	DA	O3'-P-O5'	-11.47	86.80	104.00
47	DD	23	DA	O3'-P-O5'	-11.47	86.80	104.00
53	E7	7	DA	O3'-P-O5'	-11.47	86.80	104.00
101	IC	11	DA	O3'-P-O5'	-11.47	86.79	104.00
103	J1	15	DA	O3'-P-O5'	-11.47	86.79	104.00
105	J3	5	DA	O3'-P-O5'	-11.47	86.80	104.00
122	KA	16	DA	O3'-P-O5'	-11.47	86.79	104.00
198	S8	30	DA	O3'-P-O5'	-11.47	86.79	104.00
206	T7	16	DA	O3'-P-O5'	-11.47	86.79	104.00
142	M9	7	DA	O3'-P-O5'	-11.47	86.80	104.00
183	QC	14	DA	O3'-P-O5'	-11.47	86.80	104.00
229	VD	9	DA	O3'-P-O5'	-11.47	86.79	104.00
11	AB	2112	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	4932	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	5296	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	5373	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	6739	DA	O3'-P-O5'	-11.47	86.80	104.00
120	K8	22	DA	O3'-P-O5'	-11.47	86.80	104.00
124	KD	11	DA	O3'-P-O5'	-11.47	86.80	104.00
155	ND	15	DA	O3'-P-O5'	-11.47	86.80	104.00
211	TD	27	DA	O3'-P-O5'	-11.47	86.80	104.00
4	A4	21	DA	O3'-P-O5'	-11.47	86.80	104.00
8	A8	19	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	1538	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	5707	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	2709	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	2719	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	2841	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	3172	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	3189	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	4234	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	4416	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	7212	DA	O3'-P-O5'	-11.47	86.80	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5236	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	5442	DA	O3'-P-O5'	-11.47	86.80	104.00
15	B2	11	DA	O3'-P-O5'	-11.47	86.80	104.00
39	D3	24	DA	O3'-P-O5'	-11.47	86.80	104.00
99	I9	4	DA	O3'-P-O5'	-11.47	86.80	104.00
49	E2	14	DA	O3'-P-O5'	-11.47	86.80	104.00
58	ED	34	DA	O3'-P-O5'	-11.47	86.80	104.00
105	J3	10	DA	O3'-P-O5'	-11.47	86.80	104.00
178	Q5	34	DA	O3'-P-O5'	-11.47	86.80	104.00
82	H2	49	DA	O3'-P-O5'	-11.47	86.80	104.00
107	J6	29	DA	O3'-P-O5'	-11.47	86.80	104.00
108	J7	47	DA	O3'-P-O5'	-11.47	86.80	104.00
190	R9	42	DA	O3'-P-O5'	-11.47	86.80	104.00
130	L7	44	DA	O3'-P-O5'	-11.47	86.80	104.00
138	M5	8	DA	O3'-P-O5'	-11.47	86.80	104.00
191	RA	30	DA	O3'-P-O5'	-11.47	86.80	104.00
199	S9	1	DA	O3'-P-O5'	-11.47	86.80	104.00
225	V8	14	DA	O3'-P-O5'	-11.47	86.80	104.00
229	VD	18	DA	O3'-P-O5'	-11.47	86.80	104.00
236	X5	24	DA	O3'-P-O5'	-11.47	86.80	104.00
238	X9	56	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	532	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	5232	DA	O3'-P-O5'	-11.47	86.80	104.00
1	A1	8	DA	O3'-P-O5'	-11.46	86.80	104.00
1	A1	36	DA	O3'-P-O5'	-11.46	86.81	104.00
4	A4	19	DA	O3'-P-O5'	-11.46	86.80	104.00
5	A5	27	DA	O3'-P-O5'	-11.46	86.80	104.00
11	AB	797	DA	O3'-P-O5'	-11.46	86.80	104.00
11	AB	2737	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	6256	DA	O3'-P-O5'	-11.47	86.80	104.00
181	Q9	12	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	1841	DA	O3'-P-O5'	-11.46	86.80	104.00
11	AB	1947	DA	O3'-P-O5'	-11.46	86.80	104.00
11	AB	4439	DA	O3'-P-O5'	-11.47	86.80	104.00
222	V3	13	DA	O3'-P-O5'	-11.47	86.80	104.00
228	VC	6	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	2150	DA	O3'-P-O5'	-11.46	86.80	104.00
11	AB	2270	DA	O3'-P-O5'	-11.46	86.80	104.00
11	AB	2929	DA	O3'-P-O5'	-11.46	86.80	104.00
83	H3	40	DA	O3'-P-O5'	-11.47	86.80	104.00
11	AB	3707	DA	O3'-P-O5'	-11.46	86.80	104.00
11	AB	4380	DA	O3'-P-O5'	-11.46	86.80	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4450	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	5312	DA	O3'-P-O5'	-11.46	86.80	104.00
11	AB	5878	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	6092	DA	O3'-P-O5'	-11.46	86.80	104.00
11	AB	6315	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	6497	DA	O3'-P-O5'	-11.46	86.80	104.00
11	AB	6640	DA	O3'-P-O5'	-11.46	86.80	104.00
11	AB	6670	DA	O3'-P-O5'	-11.46	86.80	104.00
26	C1	20	DA	O3'-P-O5'	-11.46	86.80	104.00
58	ED	33	DA	O3'-P-O5'	-11.46	86.80	104.00
65	F8	15	DA	O3'-P-O5'	-11.46	86.80	104.00
88	H9	1	DA	O3'-P-O5'	-11.46	86.80	104.00
93	I2	3	DA	O3'-P-O5'	-11.46	86.80	104.00
111	JA	7	DA	O3'-P-O5'	-11.46	86.80	104.00
115	K2	24	DA	O3'-P-O5'	-11.46	86.80	104.00
116	K3	18	DA	O3'-P-O5'	-11.46	86.80	104.00
131	L8	12	DA	O3'-P-O5'	-11.47	86.80	104.00
187	R5	29	DA	O3'-P-O5'	-11.47	86.80	104.00
130	L7	23	DA	O3'-P-O5'	-11.46	86.80	104.00
184	QD	30	DA	O3'-P-O5'	-11.46	86.81	104.00
189	R8	1	DA	O3'-P-O5'	-11.46	86.80	104.00
210	TC	9	DA	O3'-P-O5'	-11.46	86.80	104.00
213	U3	23	DA	O3'-P-O5'	-11.46	86.81	104.00
214	U5	1	DA	O3'-P-O5'	-11.46	86.80	104.00
235	WD	10	DA	O3'-P-O5'	-11.46	86.80	104.00
236	X5	20	DA	O3'-P-O5'	-11.46	86.80	104.00
2	A2	8	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	2180	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	2499	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	2699	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	4802	DA	O3'-P-O5'	-11.46	86.81	104.00
29	C5	4	DA	O3'-P-O5'	-11.46	86.81	104.00
65	F8	16	DA	O3'-P-O5'	-11.46	86.81	104.00
94	I3	35	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	56	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	2306	DA	O3'-P-O5'	-11.46	86.81	104.00
110	J9	11	DA	O3'-P-O5'	-11.46	86.81	104.00
221	V2	24	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	102	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	402	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	724	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	733	DA	O3'-P-O5'	-11.46	86.81	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1323	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	1858	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	2513	DA	O3'-P-O5'	-11.46	86.81	104.00
137	M3	11	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	775	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	820	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	1005	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	4456	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	1134	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	1171	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	1218	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	1358	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	1827	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	2432	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	2685	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	2808	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	2990	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	5932	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	6642	DA	O3'-P-O5'	-11.46	86.81	104.00
21	B8	9	DA	O3'-P-O5'	-11.46	86.81	104.00
43	D8	2	DA	O3'-P-O5'	-11.46	86.81	104.00
83	H3	22	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	4527	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	5877	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	6402	DA	O3'-P-O5'	-11.46	86.81	104.00
39	D3	30	DA	O3'-P-O5'	-11.46	86.81	104.00
50	E3	16	DA	O3'-P-O5'	-11.46	86.81	104.00
68	FC	8	DA	O3'-P-O5'	-11.46	86.81	104.00
125	L1	15	DA	O3'-P-O5'	-11.46	86.81	104.00
72	G3	7	DA	O3'-P-O5'	-11.46	86.81	104.00
94	I3	34	DA	O3'-P-O5'	-11.46	86.81	104.00
101	IC	7	DA	O3'-P-O5'	-11.46	86.81	104.00
103	J1	19	DA	O3'-P-O5'	-11.46	86.81	104.00
130	L7	57	DA	O3'-P-O5'	-11.46	86.81	104.00
188	R7	16	DA	O3'-P-O5'	-11.46	86.81	104.00
190	R9	10	DA	O3'-P-O5'	-11.46	86.81	104.00
196	S5	27	DA	O3'-P-O5'	-11.46	86.81	104.00
198	S8	12	DA	O3'-P-O5'	-11.46	86.81	104.00
226	V9	6	DA	O3'-P-O5'	-11.46	86.81	104.00
109	J8	19	DA	O3'-P-O5'	-11.46	86.81	104.00
123	KC	9	DA	O3'-P-O5'	-11.46	86.81	104.00
125	L1	51	DA	O3'-P-O5'	-11.46	86.81	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
139	M6	11	DA	O3'-P-O5'	-11.46	86.81	104.00
189	R8	20	DA	O3'-P-O5'	-11.46	86.81	104.00
192	RC	25	DA	O3'-P-O5'	-11.46	86.81	104.00
202	SD	27	DA	O3'-P-O5'	-11.46	86.81	104.00
228	VC	25	DA	O3'-P-O5'	-11.46	86.81	104.00
230	W3	1	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	319	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	3322	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	4446	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	5872	DA	O3'-P-O5'	-11.46	86.81	104.00
107	J6	20	DA	O3'-P-O5'	-11.46	86.81	104.00
2	A2	1	DA	O3'-P-O5'	-11.46	86.81	104.00
2	A2	19	DA	O3'-P-O5'	-11.46	86.81	104.00
10	AA	14	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	597	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	1022	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	3815	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	1731	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	1937	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	1974	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	2114	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	2268	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	2491	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	2795	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	3856	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	4264	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	3934	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	4449	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	4852	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	5871	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	6662	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	7210	DA	O3'-P-O5'	-11.46	86.81	104.00
14	B1	10	DA	O3'-P-O5'	-11.46	86.81	104.00
24	BC	36	DA	O3'-P-O5'	-11.46	86.81	104.00
27	C2	18	DA	O3'-P-O5'	-11.46	86.81	104.00
43	D8	15	DA	O3'-P-O5'	-11.46	86.81	104.00
50	E3	10	DA	O3'-P-O5'	-11.46	86.81	104.00
50	E3	17	DA	O3'-P-O5'	-11.46	86.81	104.00
55	E9	7	DA	O3'-P-O5'	-11.46	86.81	104.00
60	F2	17	DA	O3'-P-O5'	-11.46	86.81	104.00
77	G9	13	DA	O3'-P-O5'	-11.46	86.81	104.00
93	I2	16	DA	O3'-P-O5'	-11.46	86.81	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
61	F3	18	DA	O3'-P-O5'	-11.46	86.81	104.00
80	GD	10	DA	O3'-P-O5'	-11.46	86.81	104.00
162	O9	10	DA	O3'-P-O5'	-11.46	86.81	104.00
230	W3	3	DA	O3'-P-O5'	-11.46	86.81	104.00
230	W3	23	DA	O3'-P-O5'	-11.46	86.81	104.00
108	J7	32	DA	O3'-P-O5'	-11.46	86.81	104.00
123	KC	7	DA	O3'-P-O5'	-11.46	86.81	104.00
126	L2	52	DA	O3'-P-O5'	-11.46	86.81	104.00
154	NC	14	DA	O3'-P-O5'	-11.46	86.81	104.00
162	O9	11	DA	O3'-P-O5'	-11.46	86.81	104.00
174	PC	17	DA	O3'-P-O5'	-11.46	86.81	104.00
180	Q8	8	DA	O3'-P-O5'	-11.46	86.81	104.00
185	R2	17	DA	O3'-P-O5'	-11.46	86.81	104.00
196	S5	2	DA	O3'-P-O5'	-11.46	86.81	104.00
216	U8	7	DA	O3'-P-O5'	-11.46	86.81	104.00
229	VD	1	DA	O3'-P-O5'	-11.46	86.81	104.00
237	X7	8	DA	O3'-P-O5'	-11.46	86.81	104.00
238	X9	57	DA	O3'-P-O5'	-11.46	86.81	104.00
3	A3	5	DA	O3'-P-O5'	-11.46	86.82	104.00
4	A4	18	DA	O3'-P-O5'	-11.46	86.82	104.00
7	A7	17	DA	O3'-P-O5'	-11.46	86.82	104.00
11	AB	510	DA	O3'-P-O5'	-11.46	86.82	104.00
11	AB	1140	DA	O3'-P-O5'	-11.46	86.82	104.00
11	AB	1201	DA	O3'-P-O5'	-11.46	86.82	104.00
11	AB	1231	DA	O3'-P-O5'	-11.46	86.82	104.00
11	AB	1445	DA	O3'-P-O5'	-11.46	86.82	104.00
11	AB	1700	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	2113	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	2566	DA	O3'-P-O5'	-11.46	86.82	104.00
11	AB	2671	DA	O3'-P-O5'	-11.46	86.82	104.00
11	AB	4266	DA	O3'-P-O5'	-11.46	86.82	104.00
11	AB	5958	DA	O3'-P-O5'	-11.46	86.82	104.00
145	MD	28	DA	O3'-P-O5'	-11.46	86.82	104.00
11	AB	1517	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	2188	DA	O3'-P-O5'	-11.46	86.82	104.00
11	AB	6536	DA	O3'-P-O5'	-11.46	86.81	104.00
130	L7	40	DA	O3'-P-O5'	-11.46	86.82	104.00
11	AB	2321	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	2495	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	2888	DA	O3'-P-O5'	-11.46	86.82	104.00
11	AB	3199	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	3323	DA	O3'-P-O5'	-11.46	86.82	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4393	DA	O3'-P-O5'	-11.46	86.82	104.00
11	AB	4619	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	5297	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	6084	DA	O3'-P-O5'	-11.46	86.82	104.00
11	AB	6110	DA	O3'-P-O5'	-11.46	86.82	104.00
13	AD	6	DA	O3'-P-O5'	-11.46	86.81	104.00
11	AB	6559	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	6586	DA	O3'-P-O5'	-11.46	86.82	104.00
11	AB	6669	DA	O3'-P-O5'	-11.45	86.82	104.00
42	D7	11	DA	O3'-P-O5'	-11.46	86.82	104.00
49	E2	41	DA	O3'-P-O5'	-11.46	86.82	104.00
53	E7	14	DA	O3'-P-O5'	-11.45	86.82	104.00
57	EC	18	DA	O3'-P-O5'	-11.46	86.82	104.00
64	F7	26	DA	O3'-P-O5'	-11.46	86.82	104.00
74	G6	18	DA	O3'-P-O5'	-11.46	86.82	104.00
74	G6	26	DA	O3'-P-O5'	-11.46	86.82	104.00
84	H5	11	DA	O3'-P-O5'	-11.46	86.82	104.00
84	H5	17	DA	O3'-P-O5'	-11.46	86.82	104.00
107	J6	5	DA	O3'-P-O5'	-11.46	86.82	104.00
108	J7	23	DA	O3'-P-O5'	-11.46	86.81	104.00
116	K3	17	DA	O3'-P-O5'	-11.46	86.82	104.00
117	K5	5	DA	O3'-P-O5'	-11.46	86.82	104.00
122	KA	15	DA	O3'-P-O5'	-11.46	86.82	104.00
123	KC	8	DA	O3'-P-O5'	-11.46	86.82	104.00
131	L8	9	DA	O3'-P-O5'	-11.46	86.82	104.00
132	L9	5	DA	O3'-P-O5'	-11.45	86.82	104.00
138	M5	21	DA	O3'-P-O5'	-11.46	86.82	104.00
148	N5	27	DA	O3'-P-O5'	-11.45	86.82	104.00
149	N6	17	DA	O3'-P-O5'	-11.46	86.82	104.00
161	O8	2	DA	O3'-P-O5'	-11.45	86.82	104.00
165	OD	12	DA	O3'-P-O5'	-11.46	86.82	104.00
165	OD	33	DA	O3'-P-O5'	-11.46	86.82	104.00
173	PA	1	DA	O3'-P-O5'	-11.46	86.82	104.00
173	PA	20	DA	O3'-P-O5'	-11.46	86.82	104.00
175	PD	3	DA	O3'-P-O5'	-11.46	86.82	104.00
184	QD	16	DA	O3'-P-O5'	-11.46	86.82	104.00
189	R8	4	DA	O3'-P-O5'	-11.46	86.82	104.00
193	RD	14	DA	O3'-P-O5'	-11.45	86.82	104.00
194	S2	7	DA	O3'-P-O5'	-11.46	86.82	104.00
196	S5	1	DA	O3'-P-O5'	-11.46	86.82	104.00
206	T7	43	DA	O3'-P-O5'	-11.46	86.82	104.00
215	U7	2	DA	O3'-P-O5'	-11.46	86.82	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
219	UC	34	DA	O3'-P-O5'	-11.45	86.82	104.00
222	V3	3	DA	O3'-P-O5'	-11.45	86.82	104.00
222	V3	14	DA	O3'-P-O5'	-11.46	86.82	104.00
1	A1	39	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	630	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	849	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	1135	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	1300	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	1840	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	1938	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	2859	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	5654	DA	O3'-P-O5'	-11.45	86.82	104.00
17	B4	5	DA	O3'-P-O5'	-11.45	86.82	104.00
25	BD	21	DA	O3'-P-O5'	-11.45	86.82	104.00
4	A4	31	DA	O3'-P-O5'	-11.45	86.82	104.00
10	AA	24	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	94	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	217	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	244	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	1410	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	5876	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	673	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	1398	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	1732	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	1784	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	2003	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	2248	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	2514	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	2802	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	2872	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	2980	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	3203	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	4377	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	5515	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	5652	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	5920	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	6013	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	6069	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	6404	DA	O3'-P-O5'	-11.45	86.82	104.00
29	C5	38	DA	O3'-P-O5'	-11.45	86.82	104.00
44	D9	15	DA	O3'-P-O5'	-11.45	86.82	104.00
47	DD	12	DA	O3'-P-O5'	-11.45	86.82	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
67	FA	13	DA	O3'-P-O5'	-11.45	86.82	104.00
118	K6	19	DA	O3'-P-O5'	-11.45	86.82	104.00
147	N3	8	DA	O3'-P-O5'	-11.45	86.82	104.00
151	N8	3	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	6678	DA	O3'-P-O5'	-11.45	86.82	104.00
15	B2	17	DA	O3'-P-O5'	-11.45	86.82	104.00
26	C1	6	DA	O3'-P-O5'	-11.45	86.82	104.00
31	C7	9	DA	O3'-P-O5'	-11.45	86.82	104.00
46	DC	11	DA	O3'-P-O5'	-11.45	86.82	104.00
130	L7	52	DA	O3'-P-O5'	-11.45	86.82	104.00
130	L7	58	DA	O3'-P-O5'	-11.45	86.82	104.00
47	DD	35	DA	O3'-P-O5'	-11.45	86.82	104.00
55	E9	30	DA	O3'-P-O5'	-11.45	86.82	104.00
58	ED	24	DA	O3'-P-O5'	-11.45	86.82	104.00
93	I2	34	DA	O3'-P-O5'	-11.45	86.82	104.00
108	J7	26	DA	O3'-P-O5'	-11.45	86.82	104.00
141	M8	6	DA	O3'-P-O5'	-11.45	86.82	104.00
152	N9	48	DA	O3'-P-O5'	-11.45	86.82	104.00
156	O2	6	DA	O3'-P-O5'	-11.45	86.82	104.00
158	O5	22	DA	O3'-P-O5'	-11.45	86.82	104.00
160	O7	34	DA	O3'-P-O5'	-11.45	86.82	104.00
161	O8	31	DA	O3'-P-O5'	-11.45	86.82	104.00
163	OA	8	DA	O3'-P-O5'	-11.45	86.82	104.00
174	PC	15	DA	O3'-P-O5'	-11.45	86.82	104.00
192	RC	24	DA	O3'-P-O5'	-11.45	86.82	104.00
194	S2	20	DA	O3'-P-O5'	-11.45	86.82	104.00
223	V5	16	DA	O3'-P-O5'	-11.45	86.82	104.00
210	TC	10	DA	O3'-P-O5'	-11.45	86.82	104.00
214	U5	12	DA	O3'-P-O5'	-11.45	86.82	104.00
225	V8	9	DA	O3'-P-O5'	-11.45	86.82	104.00
228	VC	22	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	1	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	232	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	3692	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	4370	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	5417	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	1221	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	2283	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	2586	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	2581	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	2601	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	2694	DA	O3'-P-O5'	-11.45	86.83	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2755	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	3089	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	3170	DA	O3'-P-O5'	-11.45	86.83	104.00
22	B9	30	DA	O3'-P-O5'	-11.45	86.83	104.00
55	E9	14	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	3574	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	5292	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	6481	DA	O3'-P-O5'	-11.45	86.83	104.00
43	D8	13	DA	O3'-P-O5'	-11.45	86.83	104.00
89	HA	9	DA	O3'-P-O5'	-11.45	86.83	104.00
201	SC	2	DA	O3'-P-O5'	-11.45	86.83	104.00
228	VC	15	DA	O3'-P-O5'	-11.45	86.82	104.00
11	AB	5665	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	5669	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	5691	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	5706	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	5744	DA	O3'-P-O5'	-11.45	86.83	104.00
35	CC	8	DA	O3'-P-O5'	-11.45	86.83	104.00
81	H1	17	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	5896	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	5970	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	6778	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	6782	DA	O3'-P-O5'	-11.45	86.83	104.00
12	AC	8	DA	O3'-P-O5'	-11.45	86.83	104.00
14	B1	29	DA	O3'-P-O5'	-11.45	86.83	104.00
15	B2	9	DA	O3'-P-O5'	-11.45	86.83	104.00
27	C2	14	DA	O3'-P-O5'	-11.45	86.83	104.00
30	C6	38	DA	O3'-P-O5'	-11.45	86.83	104.00
40	D5	7	DA	O3'-P-O5'	-11.45	86.83	104.00
47	DD	16	DA	O3'-P-O5'	-11.45	86.83	104.00
65	F8	14	DA	O3'-P-O5'	-11.45	86.83	104.00
78	GA	17	DA	O3'-P-O5'	-11.45	86.83	104.00
85	H6	1	DA	O3'-P-O5'	-11.45	86.83	104.00
94	I3	22	DA	O3'-P-O5'	-11.45	86.83	104.00
104	J2	34	DA	O3'-P-O5'	-11.45	86.83	104.00
116	K3	12	DA	O3'-P-O5'	-11.45	86.83	104.00
146	N2	10	DA	O3'-P-O5'	-11.45	86.83	104.00
146	N2	16	DA	O3'-P-O5'	-11.45	86.83	104.00
154	NC	37	DA	O3'-P-O5'	-11.45	86.83	104.00
158	O5	17	DA	O3'-P-O5'	-11.45	86.83	104.00
203	T2	17	DA	O3'-P-O5'	-11.45	86.83	104.00
158	O5	43	DA	O3'-P-O5'	-11.45	86.83	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
181	Q9	31	DA	O3'-P-O5'	-11.45	86.83	104.00
190	R9	9	DA	O3'-P-O5'	-11.45	86.83	104.00
199	S9	7	DA	O3'-P-O5'	-11.45	86.83	104.00
225	V8	6	DA	O3'-P-O5'	-11.45	86.83	104.00
226	V9	25	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	615	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	691	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	2220	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	2558	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	4763	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	6365	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	23	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	110	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	755	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	793	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	2599	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	3025	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	4697	DA	O3'-P-O5'	-11.45	86.83	104.00
13	AD	24	DA	O3'-P-O5'	-11.45	86.83	104.00
19	B6	6	DA	O3'-P-O5'	-11.45	86.83	104.00
25	BD	11	DA	O3'-P-O5'	-11.45	86.83	104.00
29	C5	20	DA	O3'-P-O5'	-11.45	86.83	104.00
109	J8	38	DA	O3'-P-O5'	-11.45	86.83	104.00
143	MA	6	DA	O3'-P-O5'	-11.45	86.83	104.00
235	WD	18	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	158	DA	O3'-P-O5'	-11.44	86.83	104.00
11	AB	208	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	808	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	1515	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	1733	DA	O3'-P-O5'	-11.44	86.83	104.00
11	AB	2633	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	2751	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	2785	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	4262	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	5130	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	6403	DA	O3'-P-O5'	-11.45	86.83	104.00
16	B3	10	DA	O3'-P-O5'	-11.45	86.83	104.00
45	DA	26	DA	O3'-P-O5'	-11.45	86.83	104.00
215	U7	1	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	2907	DA	O3'-P-O5'	-11.44	86.83	104.00
11	AB	3422	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	4263	DA	O3'-P-O5'	-11.44	86.83	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4403	DA	O3'-P-O5'	-11.44	86.83	104.00
11	AB	4738	DA	O3'-P-O5'	-11.44	86.83	104.00
11	AB	5225	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	5514	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	5567	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	5688	DA	O3'-P-O5'	-11.44	86.83	104.00
11	AB	6097	DA	O3'-P-O5'	-11.44	86.83	104.00
11	AB	6200	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	6273	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	7006	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	7107	DA	O3'-P-O5'	-11.45	86.83	104.00
50	E3	13	DA	O3'-P-O5'	-11.45	86.83	104.00
97	I7	17	DA	O3'-P-O5'	-11.45	86.83	104.00
26	C1	22	DA	O3'-P-O5'	-11.44	86.83	104.00
58	ED	14	DA	O3'-P-O5'	-11.44	86.83	104.00
62	F5	41	DA	O3'-P-O5'	-11.45	86.83	104.00
83	H3	39	DA	O3'-P-O5'	-11.45	86.83	104.00
98	I8	10	DA	O3'-P-O5'	-11.45	86.83	104.00
124	KD	12	DA	O3'-P-O5'	-11.45	86.83	104.00
130	L7	16	DA	O3'-P-O5'	-11.45	86.83	104.00
141	M8	10	DA	O3'-P-O5'	-11.45	86.83	104.00
160	O7	37	DA	O3'-P-O5'	-11.45	86.83	104.00
160	O7	38	DA	O3'-P-O5'	-11.45	86.83	104.00
216	U8	3	DA	O3'-P-O5'	-11.45	86.83	104.00
224	V7	8	DA	O3'-P-O5'	-11.45	86.83	104.00
64	F7	1	DA	O3'-P-O5'	-11.44	86.83	104.00
79	GC	6	DA	O3'-P-O5'	-11.44	86.83	104.00
89	HA	26	DA	O3'-P-O5'	-11.44	86.83	104.00
91	HD	8	DA	O3'-P-O5'	-11.44	86.83	104.00
95	I5	8	DA	O3'-P-O5'	-11.45	86.83	104.00
95	I5	24	DA	O3'-P-O5'	-11.44	86.83	104.00
108	J7	2	DA	O3'-P-O5'	-11.44	86.83	104.00
125	L1	16	DA	O3'-P-O5'	-11.45	86.83	104.00
129	L6	13	DA	O3'-P-O5'	-11.44	86.83	104.00
130	L7	8	DA	O3'-P-O5'	-11.45	86.83	104.00
130	L7	39	DA	O3'-P-O5'	-11.45	86.83	104.00
131	L8	15	DA	O3'-P-O5'	-11.45	86.83	104.00
151	N8	12	DA	O3'-P-O5'	-11.44	86.83	104.00
155	ND	18	DA	O3'-P-O5'	-11.45	86.83	104.00
158	O5	33	DA	O3'-P-O5'	-11.44	86.83	104.00
158	O5	39	DA	O3'-P-O5'	-11.44	86.83	104.00
160	O7	27	DA	O3'-P-O5'	-11.44	86.83	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
162	O9	21	DA	O3'-P-O5'	-11.45	86.83	104.00
165	OD	9	DA	O3'-P-O5'	-11.44	86.83	104.00
165	OD	23	DA	O3'-P-O5'	-11.44	86.83	104.00
179	Q7	16	DA	O3'-P-O5'	-11.45	86.83	104.00
185	R2	23	DA	O3'-P-O5'	-11.45	86.83	104.00
200	SA	19	DA	O3'-P-O5'	-11.45	86.83	104.00
202	SD	17	DA	O3'-P-O5'	-11.44	86.83	104.00
207	T8	25	DA	O3'-P-O5'	-11.45	86.83	104.00
210	TC	25	DA	O3'-P-O5'	-11.44	86.83	104.00
223	V5	15	DA	O3'-P-O5'	-11.45	86.83	104.00
224	V7	9	DA	O3'-P-O5'	-11.44	86.83	104.00
224	V7	17	DA	O3'-P-O5'	-11.44	86.83	104.00
228	VC	16	DA	O3'-P-O5'	-11.44	86.83	104.00
231	W5	25	DA	O3'-P-O5'	-11.45	86.83	104.00
11	AB	3	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	246	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	618	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2444	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	3933	DA	O3'-P-O5'	-11.44	86.83	104.00
212	U2	14	DA	O3'-P-O5'	-11.44	86.84	104.00
237	X7	5	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	401	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	1110	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	1326	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	1793	DA	O3'-P-O5'	-11.44	86.83	104.00
11	AB	1529	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	1727	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2246	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	6247	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	1736	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2598	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2869	DA	O3'-P-O5'	-11.44	86.83	104.00
11	AB	3108	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	3188	DA	O3'-P-O5'	-11.44	86.83	104.00
21	B8	18	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2629	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2666	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2701	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2803	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2912	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	3028	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	3061	DA	O3'-P-O5'	-11.44	86.84	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3171	DA	O3'-P-O5'	-11.44	86.84	104.00
125	L1	34	DA	O3'-P-O5'	-11.44	86.83	104.00
141	M8	23	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	3347	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	3400	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	3573	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	6096	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	3587	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	3931	DA	O3'-P-O5'	-11.44	86.84	104.00
34	CA	7	DA	O3'-P-O5'	-11.44	86.83	104.00
11	AB	4032	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	4766	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	4787	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	5295	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	5315	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	6209	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	6319	DA	O3'-P-O5'	-11.44	86.84	104.00
52	E6	9	DA	O3'-P-O5'	-11.44	86.84	104.00
193	RD	6	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	6623	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	7233	DA	O3'-P-O5'	-11.44	86.84	104.00
25	BD	20	DA	O3'-P-O5'	-11.44	86.84	104.00
42	D7	2	DA	O3'-P-O5'	-11.44	86.84	104.00
63	F6	7	DA	O3'-P-O5'	-11.44	86.84	104.00
74	G6	31	DA	O3'-P-O5'	-11.44	86.84	104.00
80	GD	9	DA	O3'-P-O5'	-11.44	86.84	104.00
85	H6	12	DA	O3'-P-O5'	-11.44	86.84	104.00
91	HD	5	DA	O3'-P-O5'	-11.44	86.84	104.00
200	SA	9	DA	O3'-P-O5'	-11.44	86.83	104.00
212	U2	8	DA	O3'-P-O5'	-11.44	86.84	104.00
124	KD	20	DA	O3'-P-O5'	-11.44	86.84	104.00
142	M9	15	DA	O3'-P-O5'	-11.44	86.84	104.00
153	NA	10	DA	O3'-P-O5'	-11.44	86.84	104.00
161	O8	1	DA	O3'-P-O5'	-11.44	86.84	104.00
165	OD	13	DA	O3'-P-O5'	-11.44	86.84	104.00
170	P7	21	DA	O3'-P-O5'	-11.44	86.84	104.00
175	PD	22	DA	O3'-P-O5'	-11.44	86.84	104.00
179	Q7	19	DA	O3'-P-O5'	-11.44	86.84	104.00
188	R7	17	DA	O3'-P-O5'	-11.44	86.84	104.00
192	RC	16	DA	O3'-P-O5'	-11.44	86.84	104.00
195	S3	18	DA	O3'-P-O5'	-11.44	86.84	104.00
197	S7	16	DA	O3'-P-O5'	-11.44	86.84	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
207	T8	26	DA	O3'-P-O5'	-11.44	86.84	104.00
223	V5	17	DA	O3'-P-O5'	-11.44	86.84	104.00
236	X5	10	DA	O3'-P-O5'	-11.44	86.84	104.00
1	A1	35	DA	O3'-P-O5'	-11.44	86.84	104.00
5	A5	10	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	561	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	1859	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2463	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	50	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	258	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	286	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	690	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	753	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	786	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	1179	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	1215	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2511	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2662	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	3893	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	4078	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	5785	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	7026	DA	O3'-P-O5'	-11.44	86.84	104.00
33	C9	25	DA	O3'-P-O5'	-11.44	86.84	104.00
72	G3	6	DA	O3'-P-O5'	-11.44	86.84	104.00
207	T8	5	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	1261	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	1262	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	1331	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	1427	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	1876	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	1987	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2865	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	3700	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	4351	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	4412	DA	O3'-P-O5'	-11.44	86.84	104.00
109	J8	30	DA	O3'-P-O5'	-11.44	86.84	104.00
198	S8	15	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2705	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	3111	DA	O3'-P-O5'	-11.44	86.84	104.00
62	F5	23	DA	O3'-P-O5'	-11.44	86.84	104.00
170	P7	10	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	3136	DA	O3'-P-O5'	-11.44	86.84	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3298	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	3402	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	3658	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	3705	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	4678	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	5006	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	5274	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	5403	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	5517	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	5539	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	5968	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	6085	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	6163	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	6516	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	6589	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	6867	DA	O3'-P-O5'	-11.44	86.84	104.00
176	Q2	21	DA	O3'-P-O5'	-11.44	86.84	104.00
18	B5	31	DA	O3'-P-O5'	-11.44	86.84	104.00
41	D6	29	DA	O3'-P-O5'	-11.44	86.84	104.00
68	FC	2	DA	O3'-P-O5'	-11.44	86.84	104.00
103	J1	18	DA	O3'-P-O5'	-11.44	86.84	104.00
114	K1	2	DA	O3'-P-O5'	-11.44	86.84	104.00
69	FD	34	DA	O3'-P-O5'	-11.44	86.84	104.00
88	H9	25	DA	O3'-P-O5'	-11.44	86.84	104.00
98	I8	19	DA	O3'-P-O5'	-11.44	86.84	104.00
98	I8	29	DA	O3'-P-O5'	-11.44	86.84	104.00
105	J3	24	DA	O3'-P-O5'	-11.44	86.84	104.00
112	JC	23	DA	O3'-P-O5'	-11.44	86.84	104.00
149	N6	40	DA	O3'-P-O5'	-11.44	86.84	104.00
137	M3	20	DA	O3'-P-O5'	-11.44	86.84	104.00
140	M7	20	DA	O3'-P-O5'	-11.44	86.84	104.00
149	N6	28	DA	O3'-P-O5'	-11.44	86.84	104.00
157	O3	8	DA	O3'-P-O5'	-11.44	86.84	104.00
161	O8	12	DA	O3'-P-O5'	-11.44	86.84	104.00
200	SA	21	DA	O3'-P-O5'	-11.44	86.84	104.00
210	TC	17	DA	O3'-P-O5'	-11.44	86.84	104.00
211	TD	15	DA	O3'-P-O5'	-11.44	86.84	104.00
214	U5	36	DA	O3'-P-O5'	-11.44	86.84	104.00
223	V5	19	DA	O3'-P-O5'	-11.44	86.84	104.00
226	V9	2	DA	O3'-P-O5'	-11.44	86.84	104.00
236	X5	14	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	722	DA	O3'-P-O5'	-11.44	86.84	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1062	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2007	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2074	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2512	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2913	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2981	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	5293	DA	O3'-P-O5'	-11.44	86.84	104.00
184	QD	24	DA	O3'-P-O5'	-11.44	86.84	104.00
223	V5	18	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	353	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	1102	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	1577	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	1728	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	1752	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	2127	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	2284	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	1839	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	2484	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	2747	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	3273	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	3709	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	3840	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	3745	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	3784	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	3861	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	3884	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	4418	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	4977	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	5056	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	5267	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	5294	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	5320	DA	O3'-P-O5'	-11.44	86.84	104.00
123	KC	26	DA	O3'-P-O5'	-11.44	86.84	104.00
166	P2	25	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	5361	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	5650	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	5928	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	5978	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	6037	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	6067	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	6686	DA	O3'-P-O5'	-11.44	86.84	104.00
72	G3	22	DA	O3'-P-O5'	-11.44	86.84	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6267	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	6928	DA	O3'-P-O5'	-11.44	86.84	104.00
11	AB	6954	DA	O3'-P-O5'	-11.44	86.85	104.00
18	B5	26	DA	O3'-P-O5'	-11.44	86.84	104.00
27	C2	17	DA	O3'-P-O5'	-11.44	86.85	104.00
31	C7	21	DA	O3'-P-O5'	-11.44	86.85	104.00
33	C9	7	DA	O3'-P-O5'	-11.44	86.84	104.00
37	D1	3	DA	O3'-P-O5'	-11.44	86.84	104.00
103	J1	20	DA	O3'-P-O5'	-11.44	86.84	104.00
137	M3	9	DA	O3'-P-O5'	-11.44	86.84	104.00
152	N9	14	DA	O3'-P-O5'	-11.44	86.84	104.00
171	P8	15	DA	O3'-P-O5'	-11.44	86.84	104.00
171	P8	25	DA	O3'-P-O5'	-11.44	86.84	104.00
209	TA	2	DA	O3'-P-O5'	-11.44	86.84	104.00
232	W7	15	DA	O3'-P-O5'	-11.44	86.84	104.00
37	D1	13	DA	O3'-P-O5'	-11.44	86.85	104.00
57	EC	5	DA	O3'-P-O5'	-11.44	86.85	104.00
59	F1	19	DA	O3'-P-O5'	-11.44	86.85	104.00
183	QC	13	DA	O3'-P-O5'	-11.44	86.84	104.00
75	G7	17	DA	O3'-P-O5'	-11.44	86.85	104.00
87	H8	22	DA	O3'-P-O5'	-11.44	86.85	104.00
89	HA	30	DA	O3'-P-O5'	-11.44	86.85	104.00
100	IA	19	DA	O3'-P-O5'	-11.44	86.85	104.00
104	J2	40	DA	O3'-P-O5'	-11.44	86.85	104.00
107	J6	4	DA	O3'-P-O5'	-11.44	86.85	104.00
107	J6	19	DA	O3'-P-O5'	-11.44	86.84	104.00
108	J7	1	DA	O3'-P-O5'	-11.44	86.85	104.00
135	LD	15	DA	O3'-P-O5'	-11.44	86.84	104.00
238	X9	23	DA	O3'-P-O5'	-11.44	86.84	104.00
109	J8	37	DA	O3'-P-O5'	-11.44	86.85	104.00
109	J8	50	DA	O3'-P-O5'	-11.44	86.85	104.00
114	K1	34	DA	O3'-P-O5'	-11.44	86.85	104.00
135	LD	21	DA	O3'-P-O5'	-11.44	86.85	104.00
137	M3	10	DA	O3'-P-O5'	-11.44	86.84	104.00
140	M7	23	DA	O3'-P-O5'	-11.44	86.85	104.00
142	M9	8	DA	O3'-P-O5'	-11.44	86.85	104.00
158	O5	12	DA	O3'-P-O5'	-11.44	86.85	104.00
163	OA	5	DA	O3'-P-O5'	-11.44	86.84	104.00
165	OD	45	DA	O3'-P-O5'	-11.44	86.85	104.00
184	QD	17	DA	O3'-P-O5'	-11.44	86.84	104.00
181	Q9	4	DA	O3'-P-O5'	-11.44	86.85	104.00
189	R8	2	DA	O3'-P-O5'	-11.44	86.85	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
202	SD	21	DA	O3'-P-O5'	-11.44	86.85	104.00
208	T9	7	DA	O3'-P-O5'	-11.44	86.85	104.00
211	TD	32	DA	O3'-P-O5'	-11.44	86.85	104.00
214	U5	34	DA	O3'-P-O5'	-11.44	86.85	104.00
216	U8	2	DA	O3'-P-O5'	-11.44	86.85	104.00
219	UC	14	DA	O3'-P-O5'	-11.44	86.85	104.00
224	V7	10	DA	O3'-P-O5'	-11.44	86.85	104.00
233	W8	5	DA	O3'-P-O5'	-11.44	86.85	104.00
11	AB	161	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	5338	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	6562	DA	O3'-P-O5'	-11.43	86.85	104.00
206	T7	27	DA	O3'-P-O5'	-11.43	86.85	104.00
1	A1	24	DA	O3'-P-O5'	-11.43	86.85	104.00
9	A9	11	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	170	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	209	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	267	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	400	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	492	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	787	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	1023	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	1699	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	2572	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	2576	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	2700	DA	O3'-P-O5'	-11.43	86.85	104.00
29	C5	5	DA	O3'-P-O5'	-11.43	86.85	104.00
58	ED	13	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	1325	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	2269	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	2500	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	2640	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	2759	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	2794	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	2864	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	2988	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	5235	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	5359	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	3098	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	3267	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	3545	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	3797	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	4308	DA	O3'-P-O5'	-11.43	86.85	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5313	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	5485	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	5544	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	5754	DA	O3'-P-O5'	-11.43	86.85	104.00
52	E6	11	DA	O3'-P-O5'	-11.43	86.85	104.00
140	M7	18	DA	O3'-P-O5'	-11.43	86.85	104.00
161	O8	39	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	5564	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	6152	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	6829	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	7111	DA	O3'-P-O5'	-11.43	86.85	104.00
18	B5	30	DA	O3'-P-O5'	-11.43	86.85	104.00
19	B6	3	DA	O3'-P-O5'	-11.43	86.85	104.00
29	C5	29	DA	O3'-P-O5'	-11.43	86.85	104.00
40	D5	20	DA	O3'-P-O5'	-11.43	86.85	104.00
47	DD	26	DA	O3'-P-O5'	-11.43	86.85	104.00
65	F8	13	DA	O3'-P-O5'	-11.43	86.85	104.00
69	FD	23	DA	O3'-P-O5'	-11.43	86.85	104.00
76	G8	21	DA	O3'-P-O5'	-11.43	86.85	104.00
83	H3	13	DA	O3'-P-O5'	-11.43	86.85	104.00
91	HD	12	DA	O3'-P-O5'	-11.43	86.85	104.00
98	I8	14	DA	O3'-P-O5'	-11.43	86.85	104.00
108	J7	48	DA	O3'-P-O5'	-11.43	86.85	104.00
114	K1	6	DA	O3'-P-O5'	-11.43	86.85	104.00
122	KA	34	DA	O3'-P-O5'	-11.43	86.85	104.00
129	L6	11	DA	O3'-P-O5'	-11.43	86.85	104.00
145	MD	2	DA	O3'-P-O5'	-11.43	86.85	104.00
155	ND	8	DA	O3'-P-O5'	-11.43	86.85	104.00
158	O5	28	DA	O3'-P-O5'	-11.43	86.85	104.00
165	OD	8	DA	O3'-P-O5'	-11.43	86.85	104.00
165	OD	30	DA	O3'-P-O5'	-11.43	86.85	104.00
222	V3	5	DA	O3'-P-O5'	-11.43	86.85	104.00
176	Q2	19	DA	O3'-P-O5'	-11.43	86.85	104.00
185	R2	6	DA	O3'-P-O5'	-11.43	86.85	104.00
208	T9	16	DA	O3'-P-O5'	-11.43	86.85	104.00
209	TA	7	DA	O3'-P-O5'	-11.43	86.85	104.00
228	VC	1	DA	O3'-P-O5'	-11.43	86.85	104.00
234	W9	3	DA	O3'-P-O5'	-11.43	86.85	104.00
230	W3	20	DA	O3'-P-O5'	-11.43	86.85	104.00
235	WD	6	DA	O3'-P-O5'	-11.43	86.85	104.00
1	A1	17	DA	O3'-P-O5'	-11.43	86.85	104.00
6	A6	18	DA	O3'-P-O5'	-11.43	86.85	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	218	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	230	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	1002	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	2375	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	2987	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	3083	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	3868	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	3981	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	5842	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	6014	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	6060	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	6655	DA	O3'-P-O5'	-11.43	86.85	104.00
14	B1	15	DA	O3'-P-O5'	-11.43	86.85	104.00
81	H1	15	DA	O3'-P-O5'	-11.43	86.86	104.00
164	OC	21	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	5	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	164	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	231	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	1758	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	1918	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	2308	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	2380	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	3372	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	4579	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	5013	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	5725	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	5927	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	6925	DA	O3'-P-O5'	-11.43	86.86	104.00
14	B1	25	DA	O3'-P-O5'	-11.43	86.86	104.00
39	D3	16	DA	O3'-P-O5'	-11.43	86.85	104.00
106	J5	36	DA	O3'-P-O5'	-11.43	86.85	104.00
109	J8	6	DA	O3'-P-O5'	-11.43	86.85	104.00
113	JD	36	DA	O3'-P-O5'	-11.43	86.86	104.00
122	KA	23	DA	O3'-P-O5'	-11.43	86.85	104.00
125	L1	3	DA	O3'-P-O5'	-11.43	86.85	104.00
206	T7	51	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	2314	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	2749	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	3037	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	3221	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	5337	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	5739	DA	O3'-P-O5'	-11.43	86.86	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5911	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	5950	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	6032	DA	O3'-P-O5'	-11.43	86.85	104.00
11	AB	6373	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	6455	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	6472	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	6545	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	6732	DA	O3'-P-O5'	-11.43	86.86	104.00
190	R9	39	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	6976	DA	O3'-P-O5'	-11.43	86.86	104.00
15	B2	6	DA	O3'-P-O5'	-11.43	86.86	104.00
34	CA	9	DA	O3'-P-O5'	-11.43	86.86	104.00
62	F5	39	DA	O3'-P-O5'	-11.43	86.86	104.00
68	FC	1	DA	O3'-P-O5'	-11.43	86.86	104.00
220	UD	15	DA	O3'-P-O5'	-11.43	86.86	104.00
226	V9	19	DA	O3'-P-O5'	-11.43	86.86	104.00
69	FD	11	DA	O3'-P-O5'	-11.43	86.86	104.00
69	FD	24	DA	O3'-P-O5'	-11.43	86.86	104.00
88	H9	24	DA	O3'-P-O5'	-11.43	86.86	104.00
219	UC	28	DA	O3'-P-O5'	-11.43	86.86	104.00
227	VA	14	DA	O3'-P-O5'	-11.43	86.85	104.00
233	W8	9	DA	O3'-P-O5'	-11.43	86.85	104.00
238	X9	45	DA	O3'-P-O5'	-11.43	86.86	104.00
91	HD	6	DA	O3'-P-O5'	-11.43	86.86	104.00
94	I3	12	DA	O3'-P-O5'	-11.43	86.86	104.00
95	I5	9	DA	O3'-P-O5'	-11.43	86.86	104.00
104	J2	33	DA	O3'-P-O5'	-11.43	86.86	104.00
107	J6	16	DA	O3'-P-O5'	-11.43	86.86	104.00
107	J6	32	DA	O3'-P-O5'	-11.43	86.86	104.00
130	L7	48	DA	O3'-P-O5'	-11.43	86.86	104.00
170	P7	14	DA	O3'-P-O5'	-11.43	86.86	104.00
171	P8	20	DA	O3'-P-O5'	-11.43	86.86	104.00
175	PD	2	DA	O3'-P-O5'	-11.43	86.86	104.00
176	Q2	22	DA	O3'-P-O5'	-11.43	86.86	104.00
189	R8	11	DA	O3'-P-O5'	-11.43	86.86	104.00
191	RA	23	DA	O3'-P-O5'	-11.43	86.86	104.00
200	SA	20	DA	O3'-P-O5'	-11.43	86.86	104.00
209	TA	36	DA	O3'-P-O5'	-11.43	86.86	104.00
219	UC	33	DA	O3'-P-O5'	-11.43	86.86	104.00
230	W3	29	DA	O3'-P-O5'	-11.43	86.86	104.00
1	A1	2	DA	O3'-P-O5'	-11.43	86.86	104.00
1	A1	48	DA	O3'-P-O5'	-11.43	86.86	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	A6	26	DA	O3'-P-O5'	-11.43	86.86	104.00
7	A7	33	DA	O3'-P-O5'	-11.43	86.86	104.00
7	A7	32	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	12	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	73	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	502	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	629	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	814	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	1320	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	1360	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	1424	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	1761	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	2552	DA	O3'-P-O5'	-11.43	86.86	104.00
162	O9	20	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	1665	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	1806	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	1888	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	2130	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	2256	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	2290	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	2473	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	2546	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	2631	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	2921	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	2998	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	3198	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	3384	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	3532	DA	O3'-P-O5'	-11.43	86.86	104.00
33	C9	22	DA	O3'-P-O5'	-11.43	86.86	104.00
85	H6	13	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	3706	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	3799	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	3973	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	5314	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	5340	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	5647	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	6681	DA	O3'-P-O5'	-11.43	86.86	104.00
29	C5	21	DA	O3'-P-O5'	-11.43	86.86	104.00
81	H1	20	DA	O3'-P-O5'	-11.43	86.86	104.00
189	R8	32	DA	O3'-P-O5'	-11.43	86.86	104.00
210	TC	28	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	4824	DA	O3'-P-O5'	-11.43	86.86	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5171	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	5327	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	5675	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	5975	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	6287	DA	O3'-P-O5'	-11.43	86.86	104.00
11	AB	6332	DA	O3'-P-O5'	-11.43	86.86	104.00
14	B1	36	DA	O3'-P-O5'	-11.43	86.86	104.00
19	B6	20	DA	O3'-P-O5'	-11.43	86.86	104.00
24	BC	19	DA	O3'-P-O5'	-11.43	86.86	104.00
32	C8	16	DA	O3'-P-O5'	-11.43	86.86	104.00
62	F5	26	DA	O3'-P-O5'	-11.43	86.86	104.00
48	E1	19	DA	O3'-P-O5'	-11.43	86.86	104.00
51	E5	19	DA	O3'-P-O5'	-11.43	86.86	104.00
61	F3	11	DA	O3'-P-O5'	-11.43	86.86	104.00
62	F5	11	DA	O3'-P-O5'	-11.43	86.86	104.00
71	G2	17	DA	O3'-P-O5'	-11.43	86.86	104.00
82	H2	9	DA	O3'-P-O5'	-11.43	86.86	104.00
84	H5	10	DA	O3'-P-O5'	-11.43	86.86	104.00
93	I2	6	DA	O3'-P-O5'	-11.43	86.86	104.00
98	I8	15	DA	O3'-P-O5'	-11.43	86.86	104.00
98	I8	22	DA	O3'-P-O5'	-11.43	86.86	104.00
99	I9	5	DA	O3'-P-O5'	-11.43	86.86	104.00
113	JD	8	DA	O3'-P-O5'	-11.43	86.86	104.00
129	L6	17	DA	O3'-P-O5'	-11.43	86.86	104.00
130	L7	19	DA	O3'-P-O5'	-11.43	86.86	104.00
136	M2	4	DA	O3'-P-O5'	-11.43	86.86	104.00
137	M3	15	DA	O3'-P-O5'	-11.43	86.86	104.00
138	M5	41	DA	O3'-P-O5'	-11.43	86.86	104.00
141	M8	13	DA	O3'-P-O5'	-11.43	86.86	104.00
158	O5	46	DA	O3'-P-O5'	-11.43	86.86	104.00
177	Q3	26	DA	O3'-P-O5'	-11.43	86.86	104.00
180	Q8	7	DA	O3'-P-O5'	-11.43	86.86	104.00
184	QD	25	DA	O3'-P-O5'	-11.43	86.86	104.00
184	QD	28	DA	O3'-P-O5'	-11.43	86.86	104.00
186	R3	8	DA	O3'-P-O5'	-11.43	86.86	104.00
190	R9	14	DA	O3'-P-O5'	-11.43	86.86	104.00
190	R9	15	DA	O3'-P-O5'	-11.43	86.86	104.00
197	S7	18	DA	O3'-P-O5'	-11.43	86.86	104.00
201	SC	15	DA	O3'-P-O5'	-11.43	86.86	104.00
202	SD	24	DA	O3'-P-O5'	-11.43	86.86	104.00
7	A7	21	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	465	DA	O3'-P-O5'	-11.42	86.86	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	982	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	1030	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	2070	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	2620	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	3071	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	5172	DA	O3'-P-O5'	-11.42	86.86	104.00
129	L6	12	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	466	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	1413	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	1514	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	1516	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	1618	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	1746	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	2541	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	3067	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	7008	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	2458	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	3102	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	3226	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	3581	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	3670	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	3751	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	4045	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	4209	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	4387	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	4585	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	4749	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	5117	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	5264	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	5343	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	5821	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	5841	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	5912	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	6035	DA	O3'-P-O5'	-11.42	86.86	104.00
35	CC	20	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	6083	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	6214	DA	O3'-P-O5'	-11.42	86.86	104.00
11	AB	6784	DA	O3'-P-O5'	-11.42	86.86	104.00
15	B2	10	DA	O3'-P-O5'	-11.42	86.86	104.00
70	G1	12	DA	O3'-P-O5'	-11.42	86.86	104.00
34	CA	5	DA	O3'-P-O5'	-11.42	86.87	104.00
70	G1	18	DA	O3'-P-O5'	-11.42	86.86	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
87	H8	8	DA	O3'-P-O5'	-11.42	86.86	104.00
94	I3	15	DA	O3'-P-O5'	-11.42	86.87	104.00
100	IA	17	DA	O3'-P-O5'	-11.42	86.87	104.00
104	J2	39	DA	O3'-P-O5'	-11.42	86.86	104.00
106	J5	17	DA	O3'-P-O5'	-11.42	86.86	104.00
114	K1	33	DA	O3'-P-O5'	-11.42	86.86	104.00
122	KA	48	DA	O3'-P-O5'	-11.42	86.86	104.00
131	L8	21	DA	O3'-P-O5'	-11.42	86.86	104.00
132	L9	6	DA	O3'-P-O5'	-11.42	86.86	104.00
134	LC	14	DA	O3'-P-O5'	-11.42	86.87	104.00
156	O2	15	DA	O3'-P-O5'	-11.42	86.86	104.00
165	OD	37	DA	O3'-P-O5'	-11.42	86.87	104.00
172	P9	9	DA	O3'-P-O5'	-11.42	86.86	104.00
184	QD	26	DA	O3'-P-O5'	-11.42	86.86	104.00
188	R7	21	DA	O3'-P-O5'	-11.42	86.86	104.00
194	S2	23	DA	O3'-P-O5'	-11.42	86.87	104.00
198	S8	20	DA	O3'-P-O5'	-11.42	86.86	104.00
206	T7	28	DA	O3'-P-O5'	-11.42	86.87	104.00
209	TA	10	DA	O3'-P-O5'	-11.42	86.87	104.00
226	V9	7	DA	O3'-P-O5'	-11.42	86.87	104.00
232	W7	9	DA	O3'-P-O5'	-11.42	86.86	104.00
233	W8	11	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	1204	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	3240	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	3539	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	5643	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	6235	DA	O3'-P-O5'	-11.42	86.87	104.00
24	BC	17	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	35	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	245	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	5569	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	301	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	716	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	2004	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	2632	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	2791	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	2922	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	3735	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	3883	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	4750	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	3357	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	3737	DA	O3'-P-O5'	-11.42	86.87	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4022	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	4555	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	4917	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	4955	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	6697	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	5196	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	5406	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	6625	DA	O3'-P-O5'	-11.42	86.87	104.00
15	B2	5	DA	O3'-P-O5'	-11.42	86.87	104.00
62	F5	27	DA	O3'-P-O5'	-11.42	86.87	104.00
44	D9	14	DA	O3'-P-O5'	-11.42	86.87	104.00
54	E8	8	DA	O3'-P-O5'	-11.42	86.87	104.00
62	F5	34	DA	O3'-P-O5'	-11.42	86.87	104.00
74	G6	17	DA	O3'-P-O5'	-11.42	86.87	104.00
75	G7	1	DA	O3'-P-O5'	-11.42	86.87	104.00
103	J1	5	DA	O3'-P-O5'	-11.42	86.87	104.00
107	J6	37	DA	O3'-P-O5'	-11.42	86.87	104.00
124	KD	2	DA	O3'-P-O5'	-11.42	86.87	104.00
126	L2	49	DA	O3'-P-O5'	-11.42	86.87	104.00
129	L6	15	DA	O3'-P-O5'	-11.42	86.87	104.00
129	L6	26	DA	O3'-P-O5'	-11.42	86.87	104.00
130	L7	47	DA	O3'-P-O5'	-11.42	86.87	104.00
145	MD	43	DA	O3'-P-O5'	-11.42	86.87	104.00
148	N5	19	DA	O3'-P-O5'	-11.42	86.87	104.00
154	NC	11	DA	O3'-P-O5'	-11.42	86.87	104.00
163	OA	6	DA	O3'-P-O5'	-11.42	86.87	104.00
165	OD	52	DA	O3'-P-O5'	-11.42	86.87	104.00
170	P7	18	DA	O3'-P-O5'	-11.42	86.87	104.00
178	Q5	17	DA	O3'-P-O5'	-11.42	86.87	104.00
201	SC	16	DA	O3'-P-O5'	-11.42	86.87	104.00
205	T5	10	DA	O3'-P-O5'	-11.42	86.87	104.00
158	O5	9	DA	O3'-P-O5'	-11.42	86.87	104.00
161	O8	41	DA	O3'-P-O5'	-11.42	86.87	104.00
165	OD	3	DA	O3'-P-O5'	-11.42	86.87	104.00
173	PA	5	DA	O3'-P-O5'	-11.42	86.87	104.00
176	Q2	5	DA	O3'-P-O5'	-11.42	86.87	104.00
176	Q2	9	DA	O3'-P-O5'	-11.42	86.87	104.00
178	Q5	1	DA	O3'-P-O5'	-11.42	86.87	104.00
178	Q5	26	DA	O3'-P-O5'	-11.42	86.87	104.00
178	Q5	40	DA	O3'-P-O5'	-11.42	86.87	104.00
179	Q7	9	DA	O3'-P-O5'	-11.42	86.87	104.00
181	Q9	5	DA	O3'-P-O5'	-11.42	86.87	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
184	QD	9	DA	O3'-P-O5'	-11.42	86.87	104.00
189	R8	3	DA	O3'-P-O5'	-11.42	86.87	104.00
189	R8	10	DA	O3'-P-O5'	-11.42	86.87	104.00
198	S8	21	DA	O3'-P-O5'	-11.42	86.87	104.00
226	V9	5	DA	O3'-P-O5'	-11.42	86.87	104.00
238	X9	16	DA	O3'-P-O5'	-11.42	86.87	104.00
238	X9	28	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	995	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	1084	DA	O3'-P-O5'	-11.42	86.88	104.00
11	AB	1762	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	2779	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	3101	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	3202	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	3257	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	3388	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	3597	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	3926	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	4586	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	4895	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	5309	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	5612	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	5961	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	6530	DA	O3'-P-O5'	-11.42	86.87	104.00
28	C3	10	DA	O3'-P-O5'	-11.42	86.87	104.00
41	D6	42	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	2125	DA	O3'-P-O5'	-11.42	86.88	104.00
11	AB	2154	DA	O3'-P-O5'	-11.42	86.88	104.00
11	AB	2161	DA	O3'-P-O5'	-11.42	86.88	104.00
11	AB	2812	DA	O3'-P-O5'	-11.42	86.88	104.00
11	AB	3074	DA	O3'-P-O5'	-11.42	86.88	104.00
11	AB	4207	DA	O3'-P-O5'	-11.42	86.88	104.00
11	AB	4560	DA	O3'-P-O5'	-11.42	86.88	104.00
11	AB	4878	DA	O3'-P-O5'	-11.42	86.88	104.00
11	AB	5335	DA	O3'-P-O5'	-11.42	86.88	104.00
11	AB	5353	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	5573	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	5776	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	5833	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	5951	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	6066	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	6523	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	6921	DA	O3'-P-O5'	-11.42	86.88	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6967	DA	O3'-P-O5'	-11.42	86.87	104.00
11	AB	6975	DA	O3'-P-O5'	-11.42	86.88	104.00
26	C1	9	DA	O3'-P-O5'	-11.42	86.87	104.00
31	C7	25	DA	O3'-P-O5'	-11.42	86.87	104.00
34	CA	2	DA	O3'-P-O5'	-11.42	86.88	104.00
35	CC	24	DA	O3'-P-O5'	-11.42	86.87	104.00
40	D5	10	DA	O3'-P-O5'	-11.42	86.88	104.00
55	E9	26	DA	O3'-P-O5'	-11.42	86.87	104.00
64	F7	5	DA	O3'-P-O5'	-11.42	86.87	104.00
65	F8	7	DA	O3'-P-O5'	-11.42	86.88	104.00
78	GA	14	DA	O3'-P-O5'	-11.42	86.88	104.00
82	H2	23	DA	O3'-P-O5'	-11.42	86.87	104.00
87	H8	9	DA	O3'-P-O5'	-11.42	86.87	104.00
94	I3	30	DA	O3'-P-O5'	-11.42	86.87	104.00
95	I5	19	DA	O3'-P-O5'	-11.42	86.87	104.00
132	L9	7	DA	O3'-P-O5'	-11.42	86.87	104.00
106	J5	16	DA	O3'-P-O5'	-11.42	86.88	104.00
107	J6	38	DA	O3'-P-O5'	-11.42	86.87	104.00
114	K1	11	DA	O3'-P-O5'	-11.42	86.87	104.00
193	RD	20	DA	O3'-P-O5'	-11.42	86.87	104.00
121	K9	5	DA	O3'-P-O5'	-11.42	86.88	104.00
127	L3	8	DA	O3'-P-O5'	-11.42	86.87	104.00
130	L7	43	DA	O3'-P-O5'	-11.42	86.88	104.00
148	N5	31	DA	O3'-P-O5'	-11.42	86.87	104.00
181	Q9	3	DA	O3'-P-O5'	-11.42	86.87	104.00
148	N5	32	DA	O3'-P-O5'	-11.42	86.88	104.00
161	O8	40	DA	O3'-P-O5'	-11.42	86.88	104.00
165	OD	17	DA	O3'-P-O5'	-11.42	86.88	104.00
173	PA	31	DA	O3'-P-O5'	-11.42	86.88	104.00
176	Q2	7	DA	O3'-P-O5'	-11.42	86.88	104.00
191	RA	21	DA	O3'-P-O5'	-11.42	86.88	104.00
193	RD	16	DA	O3'-P-O5'	-11.42	86.87	104.00
198	S8	22	DA	O3'-P-O5'	-11.42	86.88	104.00
214	U5	32	DA	O3'-P-O5'	-11.42	86.88	104.00
221	V2	10	DA	O3'-P-O5'	-11.42	86.87	104.00
229	VD	12	DA	O3'-P-O5'	-11.42	86.88	104.00
230	W3	44	DA	O3'-P-O5'	-11.42	86.87	104.00
238	X9	30	DA	O3'-P-O5'	-11.42	86.88	104.00
3	A3	21	DA	O3'-P-O5'	-11.41	86.88	104.00
6	A6	11	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	97	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	154	DA	O3'-P-O5'	-11.41	86.88	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	484	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	1456	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	1652	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	1765	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	1870	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	3094	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	4474	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	5846	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	6361	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	6650	DA	O3'-P-O5'	-11.41	86.88	104.00
23	BA	13	DA	O3'-P-O5'	-11.41	86.88	104.00
84	H5	18	DA	O3'-P-O5'	-11.41	86.88	104.00
92	I1	9	DA	O3'-P-O5'	-11.41	86.88	104.00
126	L2	54	DA	O3'-P-O5'	-11.41	86.88	104.00
136	M2	14	DA	O3'-P-O5'	-11.41	86.88	104.00
157	O3	14	DA	O3'-P-O5'	-11.41	86.88	104.00
195	S3	16	DA	O3'-P-O5'	-11.41	86.88	104.00
6	A6	12	DA	O3'-P-O5'	-11.41	86.88	104.00
7	A7	26	DA	O3'-P-O5'	-11.41	86.88	104.00
9	A9	13	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	838	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	986	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	2386	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	2377	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	2564	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	3239	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	5326	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	5419	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	6044	DA	O3'-P-O5'	-11.41	86.88	104.00
170	P7	20	DA	O3'-P-O5'	-11.41	86.88	104.00
174	PC	16	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	3592	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	3595	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	3808	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	4578	DA	O3'-P-O5'	-11.41	86.88	104.00
52	E6	8	DA	O3'-P-O5'	-11.41	86.88	104.00
193	RD	15	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	4651	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	4989	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	5769	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	5903	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	5933	DA	O3'-P-O5'	-11.41	86.88	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6970	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	6178	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	6441	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	6529	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	6676	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	6698	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	7223	DA	O3'-P-O5'	-11.41	86.88	104.00
14	B1	16	DA	O3'-P-O5'	-11.41	86.88	104.00
25	BD	19	DA	O3'-P-O5'	-11.41	86.88	104.00
37	D1	6	DA	O3'-P-O5'	-11.41	86.88	104.00
39	D3	14	DA	O3'-P-O5'	-11.41	86.88	104.00
55	E9	35	DA	O3'-P-O5'	-11.41	86.88	104.00
69	FD	4	DA	O3'-P-O5'	-11.41	86.88	104.00
71	G2	18	DA	O3'-P-O5'	-11.41	86.88	104.00
85	H6	32	DA	O3'-P-O5'	-11.41	86.88	104.00
87	H8	25	DA	O3'-P-O5'	-11.41	86.88	104.00
145	MD	7	DA	O3'-P-O5'	-11.41	86.88	104.00
167	P3	26	DA	O3'-P-O5'	-11.41	86.88	104.00
238	X9	18	DA	O3'-P-O5'	-11.41	86.88	104.00
16	B3	21	DA	O3'-P-O5'	-11.41	86.88	104.00
21	B8	21	DA	O3'-P-O5'	-11.41	86.88	104.00
22	B9	26	DA	O3'-P-O5'	-11.41	86.88	104.00
24	BC	37	DA	O3'-P-O5'	-11.41	86.88	104.00
48	E1	28	DA	O3'-P-O5'	-11.41	86.88	104.00
59	F1	5	DA	O3'-P-O5'	-11.41	86.88	104.00
62	F5	12	DA	O3'-P-O5'	-11.41	86.88	104.00
64	F7	10	DA	O3'-P-O5'	-11.41	86.88	104.00
159	O6	13	DA	O3'-P-O5'	-11.41	86.88	104.00
79	GC	9	DA	O3'-P-O5'	-11.41	86.88	104.00
83	H3	34	DA	O3'-P-O5'	-11.41	86.88	104.00
100	IA	16	DA	O3'-P-O5'	-11.41	86.88	104.00
114	K1	32	DA	O3'-P-O5'	-11.41	86.88	104.00
132	L9	2	DA	O3'-P-O5'	-11.41	86.88	104.00
140	M7	25	DA	O3'-P-O5'	-11.41	86.88	104.00
161	O8	45	DA	O3'-P-O5'	-11.41	86.88	104.00
163	OA	7	DA	O3'-P-O5'	-11.41	86.88	104.00
165	OD	2	DA	O3'-P-O5'	-11.41	86.88	104.00
167	P3	11	DA	O3'-P-O5'	-11.41	86.88	104.00
179	Q7	26	DA	O3'-P-O5'	-11.41	86.88	104.00
181	Q9	26	DA	O3'-P-O5'	-11.41	86.88	104.00
189	R8	24	DA	O3'-P-O5'	-11.41	86.88	104.00
196	S5	18	DA	O3'-P-O5'	-11.41	86.88	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
196	S5	26	DA	O3'-P-O5'	-11.41	86.88	104.00
220	UD	14	DA	O3'-P-O5'	-11.41	86.88	104.00
236	X5	12	DA	O3'-P-O5'	-11.41	86.88	104.00
204	T3	10	DA	O3'-P-O5'	-11.41	86.88	104.00
211	TD	4	DA	O3'-P-O5'	-11.41	86.88	104.00
1	A1	32	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	141	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	268	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	278	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	551	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	747	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	1322	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	2164	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	2361	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	3073	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	6682	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	7125	DA	O3'-P-O5'	-11.41	86.88	104.00
23	BA	19	DA	O3'-P-O5'	-11.41	86.88	104.00
25	BD	14	DA	O3'-P-O5'	-11.41	86.88	104.00
69	FD	35	DA	O3'-P-O5'	-11.41	86.88	104.00
113	JD	19	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	1605	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	1651	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	2219	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	2385	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	2324	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	2942	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	2947	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	4780	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	3058	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	3431	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	3594	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	5562	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	6769	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	3724	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	3982	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	5486	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	5649	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	6045	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	6109	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	6199	DA	O3'-P-O5'	-11.41	86.88	104.00
11	AB	6326	DA	O3'-P-O5'	-11.41	86.88	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6747	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	6868	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	7023	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	7142	DA	O3'-P-O5'	-11.41	86.89	104.00
25	BD	13	DA	O3'-P-O5'	-11.41	86.89	104.00
28	C3	11	DA	O3'-P-O5'	-11.41	86.89	104.00
30	C6	5	DA	O3'-P-O5'	-11.41	86.89	104.00
30	C6	34	DA	O3'-P-O5'	-11.41	86.89	104.00
33	C9	24	DA	O3'-P-O5'	-11.41	86.89	104.00
48	E1	3	DA	O3'-P-O5'	-11.41	86.89	104.00
69	FD	6	DA	O3'-P-O5'	-11.41	86.89	104.00
75	G7	8	DA	O3'-P-O5'	-11.41	86.89	104.00
130	L7	2	DA	O3'-P-O5'	-11.41	86.88	104.00
83	H3	31	DA	O3'-P-O5'	-11.41	86.89	104.00
92	I1	6	DA	O3'-P-O5'	-11.41	86.88	104.00
95	I5	39	DA	O3'-P-O5'	-11.41	86.88	104.00
98	I8	7	DA	O3'-P-O5'	-11.41	86.89	104.00
101	IC	15	DA	O3'-P-O5'	-11.41	86.89	104.00
107	J6	10	DA	O3'-P-O5'	-11.41	86.89	104.00
122	KA	22	DA	O3'-P-O5'	-11.41	86.89	104.00
132	L9	9	DA	O3'-P-O5'	-11.41	86.88	104.00
131	L8	19	DA	O3'-P-O5'	-11.41	86.89	104.00
137	M3	3	DA	O3'-P-O5'	-11.41	86.89	104.00
143	MA	28	DA	O3'-P-O5'	-11.41	86.89	104.00
160	O7	6	DA	O3'-P-O5'	-11.41	86.89	104.00
177	Q3	23	DA	O3'-P-O5'	-11.41	86.89	104.00
179	Q7	15	DA	O3'-P-O5'	-11.41	86.89	104.00
186	R3	9	DA	O3'-P-O5'	-11.41	86.88	104.00
212	U2	7	DA	O3'-P-O5'	-11.41	86.88	104.00
194	S2	19	DA	O3'-P-O5'	-11.41	86.89	104.00
195	S3	9	DA	O3'-P-O5'	-11.41	86.89	104.00
211	TD	3	DA	O3'-P-O5'	-11.41	86.89	104.00
230	W3	43	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	157	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	990	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	3416	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	6814	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	996	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	1063	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	1767	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	2304	DA	O3'-P-O5'	-11.41	86.89	104.00
17	B4	9	DA	O3'-P-O5'	-11.41	86.89	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
63	F6	19	DA	O3'-P-O5'	-11.41	86.89	104.00
98	I8	18	DA	O3'-P-O5'	-11.41	86.89	104.00
106	J5	18	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	1777	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	1958	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	2010	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	3092	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	3275	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	3382	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	3970	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	3971	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	4894	DA	O3'-P-O5'	-11.41	86.89	104.00
106	J5	35	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	5055	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	5494	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	5957	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	6213	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	6531	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	6691	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	7009	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	7126	DA	O3'-P-O5'	-11.41	86.89	104.00
11	AB	7175	DA	O3'-P-O5'	-11.41	86.89	104.00
24	BC	24	DA	O3'-P-O5'	-11.41	86.89	104.00
141	M8	7	DA	O3'-P-O5'	-11.41	86.89	104.00
141	M8	24	DA	O3'-P-O5'	-11.41	86.89	104.00
17	B4	8	DA	O3'-P-O5'	-11.41	86.89	104.00
19	B6	19	DA	O3'-P-O5'	-11.41	86.89	104.00
29	C5	12	DA	O3'-P-O5'	-11.41	86.89	104.00
33	C9	16	DA	O3'-P-O5'	-11.41	86.89	104.00
50	E3	6	DA	O3'-P-O5'	-11.41	86.89	104.00
97	I7	18	DA	O3'-P-O5'	-11.41	86.89	104.00
137	M3	19	DA	O3'-P-O5'	-11.41	86.89	104.00
152	N9	8	DA	O3'-P-O5'	-11.41	86.89	104.00
171	P8	28	DA	O3'-P-O5'	-11.41	86.89	104.00
173	PA	12	DA	O3'-P-O5'	-11.41	86.89	104.00
173	PA	30	DA	O3'-P-O5'	-11.41	86.89	104.00
178	Q5	16	DA	O3'-P-O5'	-11.41	86.89	104.00
179	Q7	8	DA	O3'-P-O5'	-11.41	86.89	104.00
191	RA	22	DA	O3'-P-O5'	-11.41	86.89	104.00
214	U5	33	DA	O3'-P-O5'	-11.41	86.89	104.00
233	W8	10	DA	O3'-P-O5'	-11.41	86.89	104.00
8	A8	11	DA	O3'-P-O5'	-11.40	86.89	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	513	DA	O3'-P-O5'	-11.40	86.89	104.00
11	AB	1617	DA	O3'-P-O5'	-11.40	86.89	104.00
11	AB	2468	DA	O3'-P-O5'	-11.40	86.89	104.00
11	AB	2908	DA	O3'-P-O5'	-11.40	86.89	104.00
89	HA	29	DA	O3'-P-O5'	-11.40	86.89	104.00
97	I7	16	DA	O3'-P-O5'	-11.40	86.89	104.00
209	TA	37	DA	O3'-P-O5'	-11.40	86.89	104.00
231	W5	21	DA	O3'-P-O5'	-11.40	86.89	104.00
11	AB	84	DA	O3'-P-O5'	-11.40	86.89	104.00
11	AB	147	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	352	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	1003	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	1764	DA	O3'-P-O5'	-11.40	86.89	104.00
11	AB	2002	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	2049	DA	O3'-P-O5'	-11.40	86.89	104.00
11	AB	2075	DA	O3'-P-O5'	-11.40	86.89	104.00
11	AB	2731	DA	O3'-P-O5'	-11.40	86.89	104.00
11	AB	3249	DA	O3'-P-O5'	-11.40	86.89	104.00
11	AB	3250	DA	O3'-P-O5'	-11.40	86.89	104.00
11	AB	4893	DA	O3'-P-O5'	-11.40	86.89	104.00
11	AB	3876	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	4916	DA	O3'-P-O5'	-11.40	86.89	104.00
11	AB	6388	DA	O3'-P-O5'	-11.40	86.89	104.00
11	AB	6626	DA	O3'-P-O5'	-11.40	86.89	104.00
11	AB	4962	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	6452	DA	O3'-P-O5'	-11.40	86.89	104.00
11	AB	6777	DA	O3'-P-O5'	-11.40	86.89	104.00
11	AB	7143	DA	O3'-P-O5'	-11.40	86.89	104.00
23	BA	11	DA	O3'-P-O5'	-11.40	86.89	104.00
23	BA	12	DA	O3'-P-O5'	-11.40	86.89	104.00
67	FA	4	DA	O3'-P-O5'	-11.40	86.89	104.00
22	B9	51	DA	O3'-P-O5'	-11.40	86.89	104.00
38	D2	4	DA	O3'-P-O5'	-11.40	86.89	104.00
41	D6	10	DA	O3'-P-O5'	-11.40	86.89	104.00
50	E3	9	DA	O3'-P-O5'	-11.40	86.89	104.00
51	E5	29	DA	O3'-P-O5'	-11.40	86.89	104.00
66	F9	10	DA	O3'-P-O5'	-11.40	86.89	104.00
76	G8	10	DA	O3'-P-O5'	-11.40	86.89	104.00
102	ID	18	DA	O3'-P-O5'	-11.40	86.89	104.00
69	FD	20	DA	O3'-P-O5'	-11.40	86.89	104.00
87	H8	13	DA	O3'-P-O5'	-11.40	86.89	104.00
102	ID	19	DA	O3'-P-O5'	-11.40	86.89	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
101	IC	10	DA	O3'-P-O5'	-11.40	86.89	104.00
108	J7	39	DA	O3'-P-O5'	-11.40	86.89	104.00
109	J8	45	DA	O3'-P-O5'	-11.40	86.89	104.00
113	JD	18	DA	O3'-P-O5'	-11.40	86.89	104.00
121	K9	11	DA	O3'-P-O5'	-11.40	86.89	104.00
113	JD	35	DA	O3'-P-O5'	-11.40	86.89	104.00
126	L2	55	DA	O3'-P-O5'	-11.40	86.90	104.00
127	L3	12	DA	O3'-P-O5'	-11.40	86.89	104.00
137	M3	2	DA	O3'-P-O5'	-11.40	86.89	104.00
135	LD	20	DA	O3'-P-O5'	-11.40	86.89	104.00
142	M9	19	DA	O3'-P-O5'	-11.40	86.89	104.00
145	MD	5	DA	O3'-P-O5'	-11.40	86.90	104.00
145	MD	20	DA	O3'-P-O5'	-11.40	86.90	104.00
192	RC	14	DA	O3'-P-O5'	-11.40	86.89	104.00
195	S3	15	DA	O3'-P-O5'	-11.40	86.89	104.00
202	SD	7	DA	O3'-P-O5'	-11.40	86.90	104.00
226	V9	1	DA	O3'-P-O5'	-11.40	86.89	104.00
238	X9	15	DA	O3'-P-O5'	-11.40	86.89	104.00
11	AB	68	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	2464	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	2776	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	6608	DA	O3'-P-O5'	-11.40	86.90	104.00
34	CA	8	DA	O3'-P-O5'	-11.40	86.90	104.00
85	H6	33	DA	O3'-P-O5'	-11.40	86.90	104.00
145	MD	18	DA	O3'-P-O5'	-11.40	86.90	104.00
145	MD	57	DA	O3'-P-O5'	-11.40	86.90	104.00
175	PD	12	DA	O3'-P-O5'	-11.40	86.90	104.00
2	A2	30	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	985	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	1186	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	1607	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	1664	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	2163	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	3365	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	4015	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	4371	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	4475	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	4561	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	4652	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	6164	DA	O3'-P-O5'	-11.40	86.90	104.00
114	K1	29	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	4911	DA	O3'-P-O5'	-11.40	86.90	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5668	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	6515	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	7121	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	7127	DA	O3'-P-O5'	-11.40	86.90	104.00
19	B6	5	DA	O3'-P-O5'	-11.40	86.90	104.00
49	E2	36	DA	O3'-P-O5'	-11.40	86.90	104.00
82	H2	41	DA	O3'-P-O5'	-11.40	86.90	104.00
102	ID	28	DA	O3'-P-O5'	-11.40	86.90	104.00
104	J2	23	DA	O3'-P-O5'	-11.40	86.90	104.00
121	K9	10	DA	O3'-P-O5'	-11.40	86.90	104.00
137	M3	1	DA	O3'-P-O5'	-11.40	86.90	104.00
145	MD	6	DA	O3'-P-O5'	-11.40	86.90	104.00
145	MD	8	DA	O3'-P-O5'	-11.40	86.90	104.00
152	N9	35	DA	O3'-P-O5'	-11.40	86.90	104.00
190	R9	26	DA	O3'-P-O5'	-11.40	86.90	104.00
157	O3	15	DA	O3'-P-O5'	-11.40	86.90	104.00
158	O5	45	DA	O3'-P-O5'	-11.40	86.90	104.00
176	Q2	18	DA	O3'-P-O5'	-11.40	86.90	104.00
198	S8	35	DA	O3'-P-O5'	-11.40	86.90	104.00
201	SC	7	DA	O3'-P-O5'	-11.40	86.90	104.00
202	SD	8	DA	O3'-P-O5'	-11.40	86.90	104.00
235	WD	14	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	59	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	72	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	1170	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	96	DA	O3'-P-O5'	-11.40	86.91	104.00
11	AB	156	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	1178	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	1453	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	1889	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	1917	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	4562	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	5263	DA	O3'-P-O5'	-11.40	86.90	104.00
37	D1	40	DA	O3'-P-O5'	-11.40	86.90	104.00
161	O8	21	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	1033	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	2009	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	2472	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	2777	DA	O3'-P-O5'	-11.40	86.90	104.00
43	D8	6	DA	O3'-P-O5'	-11.40	86.90	104.00
228	VC	3	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	3078	DA	O3'-P-O5'	-11.40	86.91	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3217	DA	O3'-P-O5'	-11.40	86.91	104.00
11	AB	3256	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	3634	DA	O3'-P-O5'	-11.40	86.90	104.00
33	C9	17	DA	O3'-P-O5'	-11.40	86.90	104.00
101	IC	14	DA	O3'-P-O5'	-11.40	86.90	104.00
107	J6	25	DA	O3'-P-O5'	-11.40	86.90	104.00
147	N3	31	DA	O3'-P-O5'	-11.40	86.90	104.00
185	R2	9	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	3736	DA	O3'-P-O5'	-11.40	86.91	104.00
11	AB	4023	DA	O3'-P-O5'	-11.40	86.91	104.00
11	AB	5428	DA	O3'-P-O5'	-11.40	86.91	104.00
11	AB	7124	DA	O3'-P-O5'	-11.40	86.91	104.00
14	B1	24	DA	O3'-P-O5'	-11.40	86.91	104.00
24	BC	13	DA	O3'-P-O5'	-11.40	86.90	104.00
24	BC	20	DA	O3'-P-O5'	-11.40	86.90	104.00
32	C8	6	DA	O3'-P-O5'	-11.40	86.91	104.00
53	E7	23	DA	O3'-P-O5'	-11.40	86.90	104.00
126	L2	12	DA	O3'-P-O5'	-11.40	86.90	104.00
135	LD	18	DA	O3'-P-O5'	-11.40	86.90	104.00
137	M3	18	DA	O3'-P-O5'	-11.40	86.90	104.00
138	M5	33	DA	O3'-P-O5'	-11.40	86.90	104.00
159	O6	18	DA	O3'-P-O5'	-11.40	86.90	104.00
173	PA	13	DA	O3'-P-O5'	-11.40	86.90	104.00
180	Q8	14	DA	O3'-P-O5'	-11.40	86.90	104.00
238	X9	29	DA	O3'-P-O5'	-11.40	86.90	104.00
34	CA	4	DA	O3'-P-O5'	-11.40	86.91	104.00
47	DD	31	DA	O3'-P-O5'	-11.40	86.91	104.00
66	F9	9	DA	O3'-P-O5'	-11.40	86.91	104.00
70	G1	11	DA	O3'-P-O5'	-11.40	86.91	104.00
136	M2	9	DA	O3'-P-O5'	-11.40	86.90	104.00
206	T7	48	DA	O3'-P-O5'	-11.40	86.90	104.00
83	H3	32	DA	O3'-P-O5'	-11.40	86.91	104.00
83	H3	33	DA	O3'-P-O5'	-11.40	86.91	104.00
108	J7	9	DA	O3'-P-O5'	-11.40	86.91	104.00
108	J7	38	DA	O3'-P-O5'	-11.40	86.91	104.00
119	K7	14	DA	O3'-P-O5'	-11.40	86.90	104.00
121	K9	12	DA	O3'-P-O5'	-11.40	86.91	104.00
126	L2	56	DA	O3'-P-O5'	-11.40	86.91	104.00
131	L8	22	DA	O3'-P-O5'	-11.40	86.91	104.00
135	LD	14	DA	O3'-P-O5'	-11.40	86.90	104.00
137	M3	6	DA	O3'-P-O5'	-11.40	86.91	104.00
138	M5	34	DA	O3'-P-O5'	-11.40	86.90	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
145	MD	19	DA	O3'-P-O5'	-11.40	86.91	104.00
165	OD	41	DA	O3'-P-O5'	-11.40	86.90	104.00
192	RC	13	DA	O3'-P-O5'	-11.40	86.91	104.00
206	T7	18	DA	O3'-P-O5'	-11.40	86.91	104.00
221	V2	9	DA	O3'-P-O5'	-11.40	86.91	104.00
238	X9	39	DA	O3'-P-O5'	-11.40	86.90	104.00
11	AB	83	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	1890	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	2305	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	3079	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	7022	DA	O3'-P-O5'	-11.39	86.91	104.00
223	V5	28	DA	O3'-P-O5'	-11.39	86.91	104.00
1	A1	43	DA	O3'-P-O5'	-11.39	86.91	104.00
7	A7	24	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	155	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	508	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	1035	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	1290	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	2320	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	2790	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	2895	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	2948	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	3049	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	3082	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	3864	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	4208	DA	O3'-P-O5'	-11.39	86.91	104.00
19	B6	2	DA	O3'-P-O5'	-11.39	86.91	104.00
30	C6	1	DA	O3'-P-O5'	-11.39	86.91	104.00
51	E5	30	DA	O3'-P-O5'	-11.39	86.91	104.00
108	J7	40	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	5648	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	5888	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	6055	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	6781	DA	O3'-P-O5'	-11.39	86.91	104.00
35	CC	23	DA	O3'-P-O5'	-11.39	86.91	104.00
38	D2	7	DA	O3'-P-O5'	-11.39	86.91	104.00
41	D6	24	DA	O3'-P-O5'	-11.39	86.91	104.00
130	L7	15	DA	O3'-P-O5'	-11.39	86.91	104.00
49	E2	20	DA	O3'-P-O5'	-11.39	86.91	104.00
69	FD	5	DA	O3'-P-O5'	-11.39	86.91	104.00
73	G5	18	DA	O3'-P-O5'	-11.39	86.91	104.00
98	I8	17	DA	O3'-P-O5'	-11.39	86.91	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
121	K9	28	DA	O3'-P-O5'	-11.39	86.91	104.00
132	L9	4	DA	O3'-P-O5'	-11.39	86.91	104.00
145	MD	1	DA	O3'-P-O5'	-11.39	86.91	104.00
148	N5	26	DA	O3'-P-O5'	-11.39	86.91	104.00
152	N9	32	DA	O3'-P-O5'	-11.39	86.91	104.00
157	O3	13	DA	O3'-P-O5'	-11.39	86.91	104.00
173	PA	33	DA	O3'-P-O5'	-11.39	86.91	104.00
177	Q3	24	DA	O3'-P-O5'	-11.39	86.91	104.00
190	R9	17	DA	O3'-P-O5'	-11.39	86.91	104.00
196	S5	10	DA	O3'-P-O5'	-11.39	86.91	104.00
201	SC	14	DA	O3'-P-O5'	-11.39	86.91	104.00
210	TC	20	DA	O3'-P-O5'	-11.39	86.91	104.00
229	VD	11	DA	O3'-P-O5'	-11.39	86.91	104.00
235	WD	17	DA	O3'-P-O5'	-11.39	86.91	104.00
236	X5	13	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	106	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	1869	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	3205	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	5250	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	6544	DA	O3'-P-O5'	-11.39	86.91	104.00
75	G7	20	DA	O3'-P-O5'	-11.39	86.91	104.00
205	T5	23	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	297	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	1483	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	1735	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	1791	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	2784	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	3225	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	3274	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	3538	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	5974	DA	O3'-P-O5'	-11.39	86.91	104.00
11	AB	6296	DA	O3'-P-O5'	-11.39	86.92	104.00
21	B8	17	DA	O3'-P-O5'	-11.39	86.91	104.00
29	C5	11	DA	O3'-P-O5'	-11.39	86.92	104.00
41	D6	23	DA	O3'-P-O5'	-11.39	86.92	104.00
81	H1	16	DA	O3'-P-O5'	-11.39	86.91	104.00
82	H2	52	DA	O3'-P-O5'	-11.39	86.91	104.00
83	H3	20	DA	O3'-P-O5'	-11.39	86.92	104.00
152	N9	7	DA	O3'-P-O5'	-11.39	86.91	104.00
158	O5	10	DA	O3'-P-O5'	-11.39	86.92	104.00
158	O5	24	DA	O3'-P-O5'	-11.39	86.91	104.00
158	O5	38	DA	O3'-P-O5'	-11.39	86.92	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
159	O6	21	DA	O3'-P-O5'	-11.39	86.92	104.00
165	OD	40	DA	O3'-P-O5'	-11.39	86.92	104.00
176	Q2	8	DA	O3'-P-O5'	-11.39	86.91	104.00
211	TD	31	DA	O3'-P-O5'	-11.39	86.92	104.00
229	VD	13	DA	O3'-P-O5'	-11.39	86.91	104.00
1	A1	46	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	111	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	277	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	318	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	1177	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	1596	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	1792	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	1880	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	1919	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	2370	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	3580	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	4498	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	4556	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	4559	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	5107	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	5422	DA	O3'-P-O5'	-11.39	86.92	104.00
71	G2	15	DA	O3'-P-O5'	-11.39	86.92	104.00
114	K1	18	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	4200	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	4779	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	5666	DA	O3'-P-O5'	-11.39	86.92	104.00
26	C1	8	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	5043	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	5667	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	5887	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	6362	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	6974	DA	O3'-P-O5'	-11.39	86.92	104.00
29	C5	28	DA	O3'-P-O5'	-11.39	86.92	104.00
92	I1	11	DA	O3'-P-O5'	-11.39	86.92	104.00
95	I5	16	DA	O3'-P-O5'	-11.39	86.92	104.00
107	J6	8	DA	O3'-P-O5'	-11.39	86.92	104.00
145	MD	56	DA	O3'-P-O5'	-11.39	86.92	104.00
153	NA	18	DA	O3'-P-O5'	-11.39	86.92	104.00
161	O8	10	DA	O3'-P-O5'	-11.39	86.92	104.00
167	P3	25	DA	O3'-P-O5'	-11.39	86.92	104.00
172	P9	7	DA	O3'-P-O5'	-11.39	86.92	104.00
194	S2	6	DA	O3'-P-O5'	-11.39	86.92	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2008	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	3216	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	6389	DA	O3'-P-O5'	-11.39	86.92	104.00
69	FD	18	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	88	DA	O3'-P-O5'	-11.38	86.92	104.00
11	AB	153	DA	O3'-P-O5'	-11.38	86.92	104.00
11	AB	276	DA	O3'-P-O5'	-11.38	86.92	104.00
11	AB	552	DA	O3'-P-O5'	-11.38	86.92	104.00
11	AB	1057	DA	O3'-P-O5'	-11.38	86.92	104.00
11	AB	1760	DA	O3'-P-O5'	-11.38	86.92	104.00
11	AB	2471	DA	O3'-P-O5'	-11.38	86.92	104.00
11	AB	2501	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	4050	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	6295	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	6390	DA	O3'-P-O5'	-11.39	86.92	104.00
100	IA	18	DA	O3'-P-O5'	-11.39	86.92	104.00
107	J6	9	DA	O3'-P-O5'	-11.39	86.92	104.00
205	T5	12	DA	O3'-P-O5'	-11.39	86.92	104.00
11	AB	2661	DA	O3'-P-O5'	-11.38	86.92	104.00
11	AB	2727	DA	O3'-P-O5'	-11.38	86.92	104.00
11	AB	3266	DA	O3'-P-O5'	-11.38	86.92	104.00
11	AB	5352	DA	O3'-P-O5'	-11.38	86.92	104.00
11	AB	5910	DA	O3'-P-O5'	-11.38	86.92	104.00
25	BD	15	DA	O3'-P-O5'	-11.38	86.92	104.00
32	C8	1	DA	O3'-P-O5'	-11.38	86.92	104.00
33	C9	23	DA	O3'-P-O5'	-11.38	86.92	104.00
39	D3	15	DA	O3'-P-O5'	-11.39	86.92	104.00
59	F1	15	DA	O3'-P-O5'	-11.39	86.92	104.00
158	O5	11	DA	O3'-P-O5'	-11.39	86.92	104.00
37	D1	39	DA	O3'-P-O5'	-11.38	86.92	104.00
76	G8	9	DA	O3'-P-O5'	-11.38	86.92	104.00
85	H6	3	DA	O3'-P-O5'	-11.38	86.92	104.00
113	JD	17	DA	O3'-P-O5'	-11.38	86.92	104.00
114	K1	19	DA	O3'-P-O5'	-11.38	86.92	104.00
119	K7	15	DA	O3'-P-O5'	-11.38	86.92	104.00
125	L1	8	DA	O3'-P-O5'	-11.38	86.92	104.00
126	L2	37	DA	O3'-P-O5'	-11.38	86.92	104.00
140	M7	24	DA	O3'-P-O5'	-11.38	86.92	104.00
213	U3	8	DA	O3'-P-O5'	-11.39	86.92	104.00
229	VD	16	DA	O3'-P-O5'	-11.38	86.92	104.00
11	AB	46	DA	O3'-P-O5'	-11.38	86.92	104.00
11	AB	71	DA	O3'-P-O5'	-11.38	86.93	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	697	DA	O3'-P-O5'	-11.38	86.92	104.00
11	AB	1214	DA	O3'-P-O5'	-11.38	86.93	104.00
11	AB	2775	DA	O3'-P-O5'	-11.38	86.93	104.00
11	AB	3593	DA	O3'-P-O5'	-11.38	86.93	104.00
11	AB	5108	DA	O3'-P-O5'	-11.38	86.93	104.00
11	AB	5332	DA	O3'-P-O5'	-11.38	86.92	104.00
11	AB	5553	DA	O3'-P-O5'	-11.38	86.93	104.00
11	AB	5561	DA	O3'-P-O5'	-11.38	86.92	104.00
11	AB	6677	DA	O3'-P-O5'	-11.38	86.93	104.00
14	B1	23	DA	O3'-P-O5'	-11.38	86.92	104.00
41	D6	11	DA	O3'-P-O5'	-11.38	86.92	104.00
69	FD	19	DA	O3'-P-O5'	-11.38	86.93	104.00
95	I5	20	DA	O3'-P-O5'	-11.38	86.93	104.00
112	JC	8	DA	O3'-P-O5'	-11.38	86.93	104.00
126	L2	6	DA	O3'-P-O5'	-11.38	86.93	104.00
140	M7	19	DA	O3'-P-O5'	-11.38	86.93	104.00
187	R5	2	DA	O3'-P-O5'	-11.38	86.92	104.00
11	AB	1291	DA	O3'-P-O5'	-11.38	86.93	104.00
11	AB	3972	DA	O3'-P-O5'	-11.38	86.93	104.00
11	AB	5357	DA	O3'-P-O5'	-11.38	86.93	104.00
11	AB	6442	DA	O3'-P-O5'	-11.38	86.93	104.00
18	B5	23	DA	O3'-P-O5'	-11.38	86.93	104.00
22	B9	25	DA	O3'-P-O5'	-11.38	86.93	104.00
82	H2	51	DA	O3'-P-O5'	-11.38	86.93	104.00
31	C7	1	DA	O3'-P-O5'	-11.38	86.93	104.00
53	E7	18	DA	O3'-P-O5'	-11.38	86.93	104.00
59	F1	14	DA	O3'-P-O5'	-11.38	86.93	104.00
62	F5	1	DA	O3'-P-O5'	-11.38	86.93	104.00
83	H3	12	DA	O3'-P-O5'	-11.38	86.93	104.00
195	S3	17	DA	O3'-P-O5'	-11.38	86.93	104.00
232	W7	8	DA	O3'-P-O5'	-11.38	86.93	104.00
6	A6	7	DA	O3'-P-O5'	-11.38	86.93	104.00
11	AB	1203	DA	O3'-P-O5'	-11.38	86.93	104.00
11	AB	1423	DA	O3'-P-O5'	-11.38	86.93	104.00
11	AB	2946	DA	O3'-P-O5'	-11.38	86.93	104.00
11	AB	3734	DA	O3'-P-O5'	-11.38	86.93	104.00
11	AB	5195	DA	O3'-P-O5'	-11.38	86.94	104.00
11	AB	5358	DA	O3'-P-O5'	-11.38	86.93	104.00
100	IA	13	DA	O3'-P-O5'	-11.38	86.93	104.00
115	K2	34	DA	O3'-P-O5'	-11.38	86.93	104.00
71	G2	16	DA	O3'-P-O5'	-11.38	86.93	104.00
95	I5	27	DA	O3'-P-O5'	-11.38	86.94	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
148	N5	22	DA	O3'-P-O5'	-11.38	86.93	104.00
153	NA	11	DA	O3'-P-O5'	-11.38	86.93	104.00
153	NA	19	DA	O3'-P-O5'	-11.38	86.93	104.00
158	O5	42	DA	O3'-P-O5'	-11.38	86.93	104.00
161	O8	44	DA	O3'-P-O5'	-11.38	86.94	104.00
201	SC	13	DA	O3'-P-O5'	-11.38	86.93	104.00
205	T5	11	DA	O3'-P-O5'	-11.38	86.93	104.00
11	AB	754	DA	O3'-P-O5'	-11.38	86.94	104.00
11	AB	987	DA	O3'-P-O5'	-11.38	86.94	104.00
11	AB	1900	DA	O3'-P-O5'	-11.38	86.94	104.00
11	AB	4046	DA	O3'-P-O5'	-11.38	86.94	104.00
107	J6	13	DA	O3'-P-O5'	-11.38	86.94	104.00
11	AB	1056	DA	O3'-P-O5'	-11.37	86.94	104.00
11	AB	4554	DA	O3'-P-O5'	-11.38	86.94	104.00
141	M8	5	DA	O3'-P-O5'	-11.38	86.94	104.00
11	AB	6048	DA	O3'-P-O5'	-11.37	86.94	104.00
11	AB	7106	DA	O3'-P-O5'	-11.37	86.94	104.00
146	N2	9	DA	O3'-P-O5'	-11.37	86.94	104.00
162	O9	14	DA	O3'-P-O5'	-11.38	86.94	104.00
190	R9	31	DA	O3'-P-O5'	-11.37	86.94	104.00
232	W7	7	DA	O3'-P-O5'	-11.38	86.94	104.00
32	C8	20	DA	O3'-P-O5'	-11.37	86.94	104.00
11	AB	2778	DA	O3'-P-O5'	-11.37	86.94	104.00
11	AB	7112	DA	O3'-P-O5'	-11.37	86.94	104.00
33	C9	10	DA	O3'-P-O5'	-11.37	86.94	104.00
11	AB	3265	DA	O3'-P-O5'	-11.37	86.95	104.00
69	FD	41	DA	O3'-P-O5'	-11.37	86.95	104.00
11	AB	550	DA	O3'-P-O5'	-11.37	86.95	104.00
11	AB	6853	DA	O3'-P-O5'	-11.37	86.95	104.00
24	BC	25	DA	O3'-P-O5'	-11.37	86.95	104.00
92	I1	5	DA	O3'-P-O5'	-11.37	86.95	104.00
113	JD	6	DA	O3'-P-O5'	-11.37	86.95	104.00
238	X9	51	DA	O3'-P-O5'	-11.37	86.95	104.00
149	N6	27	DA	O3'-P-O5'	-11.37	86.95	104.00
156	O2	20	DA	O3'-P-O5'	-11.37	86.95	104.00
210	TC	19	DA	O3'-P-O5'	-11.37	86.95	104.00
11	AB	2789	DA	O3'-P-O5'	-11.36	86.95	104.00
11	AB	3591	DA	O3'-P-O5'	-11.37	86.95	104.00
11	AB	5336	DA	O3'-P-O5'	-11.37	86.95	104.00
124	KD	17	DA	O3'-P-O5'	-11.37	86.95	104.00
149	N6	43	DA	O3'-P-O5'	-11.36	86.95	104.00
165	OD	36	DA	O3'-P-O5'	-11.36	86.95	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
173	PA	26	DA	O3'-P-O5'	-11.37	86.95	104.00
176	Q2	6	DA	O3'-P-O5'	-11.37	86.95	104.00
11	AB	1034	DA	O3'-P-O5'	-11.36	86.96	104.00
64	F7	9	DA	O3'-P-O5'	-11.36	86.96	104.00
172	P9	8	DA	O3'-P-O5'	-11.36	86.96	104.00
11	AB	5916	DA	O3'-P-O5'	-11.36	86.96	104.00
11	AB	1952	DT	O3'-P-O5'	-11.36	86.97	104.00
12	AC	15	DT	O3'-P-O5'	-11.35	86.97	104.00
76	G8	16	DT	O3'-P-O5'	-11.35	86.97	104.00
131	L8	20	DA	O3'-P-O5'	-11.35	86.97	104.00
11	AB	3030	DT	O3'-P-O5'	-11.35	86.98	104.00
11	AB	3939	DT	O3'-P-O5'	-11.35	86.98	104.00
11	AB	4940	DT	O3'-P-O5'	-11.35	86.98	104.00
11	AB	6424	DT	O3'-P-O5'	-11.35	86.97	104.00
95	I5	1	DA	O3'-P-O5'	-11.35	86.97	104.00
115	K2	12	DT	O3'-P-O5'	-11.35	86.98	104.00
11	AB	1393	DT	O3'-P-O5'	-11.35	86.98	104.00
11	AB	1509	DT	O3'-P-O5'	-11.35	86.98	104.00
11	AB	2703	DT	O3'-P-O5'	-11.35	86.98	104.00
11	AB	1569	DT	O3'-P-O5'	-11.35	86.98	104.00
11	AB	6301	DT	O3'-P-O5'	-11.35	86.98	104.00
23	BA	28	DT	O3'-P-O5'	-11.35	86.98	104.00
147	N3	15	DT	O3'-P-O5'	-11.35	86.98	104.00
42	D7	5	DT	O3'-P-O5'	-11.35	86.98	104.00
54	E8	32	DT	O3'-P-O5'	-11.35	86.98	104.00
168	P5	12	DT	O3'-P-O5'	-11.35	86.98	104.00
11	AB	214	DT	O3'-P-O5'	-11.34	86.98	104.00
11	AB	2623	DA	O3'-P-O5'	-11.34	86.98	104.00
11	AB	5290	DT	O3'-P-O5'	-11.34	86.99	104.00
105	J3	19	DT	O3'-P-O5'	-11.34	86.99	104.00
160	O7	50	DT	O3'-P-O5'	-11.34	86.99	104.00
168	P5	11	DT	O3'-P-O5'	-11.34	86.99	104.00
198	S8	40	DT	O3'-P-O5'	-11.34	86.99	104.00
11	AB	1223	DT	O3'-P-O5'	-11.34	86.99	104.00
11	AB	1385	DT	O3'-P-O5'	-11.34	86.99	104.00
11	AB	6667	DT	O3'-P-O5'	-11.34	86.99	104.00
11	AB	4222	DT	O3'-P-O5'	-11.34	86.99	104.00
11	AB	6161	DT	O3'-P-O5'	-11.34	86.99	104.00
11	AB	6719	DT	O3'-P-O5'	-11.34	86.99	104.00
148	N5	8	DT	O3'-P-O5'	-11.34	86.99	104.00
148	N5	9	DT	O3'-P-O5'	-11.34	86.99	104.00
173	PA	16	DT	O3'-P-O5'	-11.34	86.99	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
190	R9	36	DT	O3'-P-O5'	-11.34	86.99	104.00
212	U2	22	DT	O3'-P-O5'	-11.34	86.99	104.00
11	AB	610	DT	O3'-P-O5'	-11.34	86.99	104.00
11	AB	667	DT	O3'-P-O5'	-11.34	87.00	104.00
11	AB	2420	DT	O3'-P-O5'	-11.34	86.99	104.00
11	AB	4676	DT	O3'-P-O5'	-11.34	86.99	104.00
11	AB	4727	DT	O3'-P-O5'	-11.34	86.99	104.00
11	AB	6541	DA	O3'-P-O5'	-11.34	87.00	104.00
11	AB	7094	DT	O3'-P-O5'	-11.34	87.00	104.00
20	B7	14	DT	O3'-P-O5'	-11.34	86.99	104.00
11	AB	1512	DT	O3'-P-O5'	-11.34	87.00	104.00
11	AB	3623	DT	O3'-P-O5'	-11.34	87.00	104.00
11	AB	3761	DT	O3'-P-O5'	-11.34	87.00	104.00
11	AB	6312	DT	O3'-P-O5'	-11.34	87.00	104.00
11	AB	6597	DT	O3'-P-O5'	-11.34	87.00	104.00
106	J5	9	DT	O3'-P-O5'	-11.34	87.00	104.00
11	AB	107	DA	O3'-P-O5'	-11.33	87.00	104.00
11	AB	172	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	5607	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	446	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	1816	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	2023	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	3016	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	3287	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	3439	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	5021	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	4536	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	5580	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	5998	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	6584	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	6793	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	6094	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	6175	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	6574	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	7048	DT	O3'-P-O5'	-11.33	87.00	104.00
14	B1	11	DT	O3'-P-O5'	-11.33	87.00	104.00
29	C5	1	DT	O3'-P-O5'	-11.33	87.00	104.00
51	E5	21	DT	O3'-P-O5'	-11.33	87.00	104.00
115	K2	6	DT	O3'-P-O5'	-11.33	87.00	104.00
105	J3	17	DT	O3'-P-O5'	-11.33	87.00	104.00
105	J3	18	DT	O3'-P-O5'	-11.33	87.00	104.00
131	L8	13	DT	O3'-P-O5'	-11.33	87.00	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
149	N6	5	DT	O3'-P-O5'	-11.33	87.00	104.00
190	R9	20	DT	O3'-P-O5'	-11.33	87.00	104.00
222	V3	19	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	1235	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	1309	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	1371	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	1679	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	2426	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	2815	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	2844	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	3504	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	4244	DT	O3'-P-O5'	-11.33	87.00	104.00
18	B5	19	DT	O3'-P-O5'	-11.33	87.00	104.00
154	NC	19	DT	O3'-P-O5'	-11.33	87.00	104.00
11	AB	3851	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	6010	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	6184	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	7043	DT	O3'-P-O5'	-11.33	87.01	104.00
53	E7	5	DT	O3'-P-O5'	-11.33	87.01	104.00
190	R9	6	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	577	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	595	DT	O3'-P-O5'	-11.33	87.01	104.00
7	A7	19	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	653	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	1121	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	1384	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	2089	DT	O3'-P-O5'	-11.33	87.01	104.00
67	FA	23	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	2814	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	3435	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	4994	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	6802	DT	O3'-P-O5'	-11.33	87.01	104.00
128	L5	8	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	5597	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	6578	DT	O3'-P-O5'	-11.33	87.01	104.00
231	W5	30	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	6956	DT	O3'-P-O5'	-11.33	87.01	104.00
40	D5	15	DT	O3'-P-O5'	-11.33	87.01	104.00
130	L7	50	DT	O3'-P-O5'	-11.33	87.01	104.00
177	Q3	10	DT	O3'-P-O5'	-11.33	87.01	104.00
190	R9	19	DT	O3'-P-O5'	-11.33	87.01	104.00
11	AB	177	DT	O3'-P-O5'	-11.32	87.01	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	181	DT	O3'-P-O5'	-11.32	87.01	104.00
11	AB	1159	DT	O3'-P-O5'	-11.32	87.01	104.00
11	AB	2098	DT	O3'-P-O5'	-11.32	87.01	104.00
11	AB	2198	DT	O3'-P-O5'	-11.32	87.01	104.00
11	AB	5386	DT	O3'-P-O5'	-11.32	87.01	104.00
11	AB	3138	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	3192	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	3354	DT	O3'-P-O5'	-11.32	87.01	104.00
11	AB	4426	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	4856	DT	O3'-P-O5'	-11.32	87.01	104.00
11	AB	5443	DT	O3'-P-O5'	-11.32	87.01	104.00
11	AB	5729	DT	O3'-P-O5'	-11.32	87.01	104.00
11	AB	5791	DT	O3'-P-O5'	-11.32	87.01	104.00
11	AB	6002	DT	O3'-P-O5'	-11.32	87.01	104.00
11	AB	7096	DT	O3'-P-O5'	-11.32	87.01	104.00
23	BA	25	DT	O3'-P-O5'	-11.32	87.01	104.00
32	C8	11	DT	O3'-P-O5'	-11.32	87.01	104.00
133	LA	9	DT	O3'-P-O5'	-11.32	87.01	104.00
12	AC	13	DT	O3'-P-O5'	-11.32	87.02	104.00
18	B5	35	DT	O3'-P-O5'	-11.32	87.02	104.00
103	J1	11	DT	O3'-P-O5'	-11.32	87.02	104.00
126	L2	31	DT	O3'-P-O5'	-11.32	87.01	104.00
128	L5	7	DT	O3'-P-O5'	-11.32	87.02	104.00
175	PD	14	DT	O3'-P-O5'	-11.32	87.02	104.00
177	Q3	12	DT	O3'-P-O5'	-11.32	87.02	104.00
216	U8	9	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	2441	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	4273	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	7075	DT	O3'-P-O5'	-11.32	87.02	104.00
5	A5	20	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	974	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	1066	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	5222	DT	O3'-P-O5'	-11.32	87.02	104.00
53	E7	2	DT	O3'-P-O5'	-11.32	87.02	104.00
62	F5	21	DT	O3'-P-O5'	-11.32	87.02	104.00
78	GA	10	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	225	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	695	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	1930	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	1991	DT	O3'-P-O5'	-11.32	87.02	104.00
186	R3	16	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	2406	DT	O3'-P-O5'	-11.32	87.02	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2519	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	2810	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	2848	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	3147	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	4269	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	4617	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	3000	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	3009	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	3194	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	3349	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	3433	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	3614	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	4125	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	4768	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	5163	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	5229	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	5385	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	5457	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	6264	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	6483	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	6718	DT	O3'-P-O5'	-11.32	87.02	104.00
26	C1	12	DT	O3'-P-O5'	-11.32	87.02	104.00
191	RA	17	DT	O3'-P-O5'	-11.32	87.02	104.00
214	U5	39	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	5209	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	6582	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	6871	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	7095	DT	O3'-P-O5'	-11.32	87.02	104.00
191	RA	28	DT	O3'-P-O5'	-11.32	87.02	104.00
215	U7	15	DT	O3'-P-O5'	-11.32	87.02	104.00
231	W5	11	DT	O3'-P-O5'	-11.32	87.02	104.00
24	BC	32	DT	O3'-P-O5'	-11.32	87.02	104.00
124	KD	8	DT	O3'-P-O5'	-11.32	87.02	104.00
125	L1	46	DT	O3'-P-O5'	-11.32	87.02	104.00
177	Q3	11	DT	O3'-P-O5'	-11.32	87.02	104.00
221	V2	22	DT	O3'-P-O5'	-11.32	87.02	104.00
231	W5	9	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	184	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	194	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	740	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	1717	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	2020	DT	O3'-P-O5'	-11.32	87.02	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2197	DT	O3'-P-O5'	-11.32	87.03	104.00
11	AB	2342	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	2423	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	2800	DT	O3'-P-O5'	-11.32	87.03	104.00
11	AB	2824	DT	O3'-P-O5'	-11.32	87.03	104.00
11	AB	3001	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	4348	DT	O3'-P-O5'	-11.32	87.02	104.00
78	GA	9	DT	O3'-P-O5'	-11.32	87.02	104.00
111	JA	1	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	3182	DT	O3'-P-O5'	-11.32	87.03	104.00
11	AB	3308	DT	O3'-P-O5'	-11.32	87.03	104.00
11	AB	3311	DT	O3'-P-O5'	-11.32	87.03	104.00
11	AB	3905	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	3906	DT	O3'-P-O5'	-11.32	87.03	104.00
11	AB	5581	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	5982	DT	O3'-P-O5'	-11.32	87.02	104.00
13	AD	41	DT	O3'-P-O5'	-11.32	87.02	104.00
35	CC	13	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	4769	DT	O3'-P-O5'	-11.32	87.03	104.00
11	AB	5449	DT	O3'-P-O5'	-11.32	87.02	104.00
67	FA	10	DT	O3'-P-O5'	-11.32	87.02	104.00
98	I8	42	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	5780	DT	O3'-P-O5'	-11.32	87.03	104.00
11	AB	6343	DT	O3'-P-O5'	-11.32	87.03	104.00
11	AB	6508	DT	O3'-P-O5'	-11.32	87.03	104.00
11	AB	6884	DT	O3'-P-O5'	-11.32	87.03	104.00
11	AB	7183	DT	O3'-P-O5'	-11.32	87.03	104.00
11	AB	7184	DT	O3'-P-O5'	-11.32	87.03	104.00
119	K7	41	DT	O3'-P-O5'	-11.32	87.02	104.00
11	AB	7220	DT	O3'-P-O5'	-11.32	87.03	104.00
22	B9	2	DT	O3'-P-O5'	-11.32	87.03	104.00
188	R7	11	DT	O3'-P-O5'	-11.32	87.02	104.00
204	T3	33	DT	O3'-P-O5'	-11.32	87.02	104.00
114	K1	13	DT	O3'-P-O5'	-11.32	87.03	104.00
119	K7	24	DT	O3'-P-O5'	-11.32	87.03	104.00
121	K9	18	DT	O3'-P-O5'	-11.32	87.03	104.00
122	KA	29	DT	O3'-P-O5'	-11.32	87.02	104.00
138	M5	38	DT	O3'-P-O5'	-11.32	87.03	104.00
144	MC	20	DT	O3'-P-O5'	-11.32	87.03	104.00
166	P2	14	DT	O3'-P-O5'	-11.32	87.03	104.00
168	P5	16	DT	O3'-P-O5'	-11.32	87.03	104.00
190	R9	37	DT	O3'-P-O5'	-11.32	87.03	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A5	1	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	224	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	253	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	645	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	698	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	1678	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	2819	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	965	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	1329	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	1372	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	2690	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	2849	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	3617	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	4424	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	5466	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	1557	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	1969	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	2438	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	2861	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	2978	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	3157	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	3280	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	3759	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	4327	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	4613	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	5022	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	5384	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	5394	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	5307	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	5779	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	6233	DA	O3'-P-O5'	-11.31	87.03	104.00
11	AB	7062	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	6583	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	6863	DT	O3'-P-O5'	-11.31	87.03	104.00
36	CD	16	DT	O3'-P-O5'	-11.31	87.03	104.00
135	LD	9	DT	O3'-P-O5'	-11.31	87.03	104.00
192	RC	30	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	6945	DT	O3'-P-O5'	-11.31	87.03	104.00
13	AD	40	DT	O3'-P-O5'	-11.31	87.03	104.00
16	B3	8	DT	O3'-P-O5'	-11.31	87.03	104.00
31	C7	7	DT	O3'-P-O5'	-11.31	87.03	104.00
31	C7	11	DT	O3'-P-O5'	-11.31	87.03	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	E2	11	DT	O3'-P-O5'	-11.31	87.03	104.00
52	E6	1	DT	O3'-P-O5'	-11.31	87.03	104.00
82	H2	16	DT	O3'-P-O5'	-11.31	87.03	104.00
144	MC	16	DT	O3'-P-O5'	-11.31	87.03	104.00
185	R2	1	DT	O3'-P-O5'	-11.31	87.03	104.00
167	P3	6	DT	O3'-P-O5'	-11.31	87.03	104.00
190	R9	5	DT	O3'-P-O5'	-11.31	87.03	104.00
203	T2	7	DT	O3'-P-O5'	-11.31	87.03	104.00
211	TD	25	DT	O3'-P-O5'	-11.31	87.03	104.00
221	V2	17	DT	O3'-P-O5'	-11.31	87.03	104.00
237	X7	3	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	624	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	1158	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	1224	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	6183	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	6957	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	7034	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	1236	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	1252	DA	O3'-P-O5'	-11.31	87.03	104.00
11	AB	1546	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	2086	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	2347	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	2419	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	2430	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	2682	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	3005	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	3015	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	3304	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	4939	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	3032	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	3503	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	3571	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	3758	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	4229	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	4349	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	5697	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	5997	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	6009	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	6258	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	7047	DT	O3'-P-O5'	-11.31	87.03	104.00
119	K7	37	DT	O3'-P-O5'	-11.31	87.03	104.00
132	L9	18	DT	O3'-P-O5'	-11.31	87.03	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4243	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	4414	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	5462	DT	O3'-P-O5'	-11.31	87.03	104.00
12	AC	12	DT	O3'-P-O5'	-11.31	87.04	104.00
13	AD	39	DT	O3'-P-O5'	-11.31	87.03	104.00
22	B9	18	DT	O3'-P-O5'	-11.31	87.03	104.00
36	CD	17	DT	O3'-P-O5'	-11.31	87.03	104.00
87	H8	16	DT	O3'-P-O5'	-11.31	87.03	104.00
112	JC	21	DT	O3'-P-O5'	-11.31	87.03	104.00
112	JC	22	DT	O3'-P-O5'	-11.31	87.03	104.00
115	K2	13	DT	O3'-P-O5'	-11.31	87.03	104.00
114	K1	40	DT	O3'-P-O5'	-11.31	87.03	104.00
117	K5	15	DT	O3'-P-O5'	-11.31	87.03	104.00
145	MD	34	DT	O3'-P-O5'	-11.31	87.03	104.00
149	N6	4	DT	O3'-P-O5'	-11.31	87.04	104.00
162	O9	9	DT	O3'-P-O5'	-11.31	87.04	104.00
198	S8	25	DT	O3'-P-O5'	-11.31	87.03	104.00
200	SA	23	DT	O3'-P-O5'	-11.31	87.03	104.00
236	X5	23	DT	O3'-P-O5'	-11.31	87.03	104.00
11	AB	1241	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	1575	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	2181	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	2830	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	5076	DT	O3'-P-O5'	-11.31	87.04	104.00
102	ID	9	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	1211	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	1508	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	1843	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	2508	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	3708	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	5286	DT	O3'-P-O5'	-11.31	87.04	104.00
30	C6	27	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	2831	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	3031	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	3510	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	3563	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	5147	DA	O3'-P-O5'	-11.31	87.04	104.00
11	AB	5306	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	5367	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	5370	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	5377	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	5796	DT	O3'-P-O5'	-11.31	87.04	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6132	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	6323	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	6418	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	6425	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	6600	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	6638	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	6657	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	6895	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	6946	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	7033	DT	O3'-P-O5'	-11.31	87.04	104.00
58	ED	27	DT	O3'-P-O5'	-11.31	87.04	104.00
117	K5	37	DT	O3'-P-O5'	-11.31	87.04	104.00
118	K6	7	DT	O3'-P-O5'	-11.31	87.04	104.00
135	LD	8	DT	O3'-P-O5'	-11.31	87.04	104.00
144	MC	15	DT	O3'-P-O5'	-11.31	87.04	104.00
198	S8	9	DT	O3'-P-O5'	-11.31	87.04	104.00
212	U2	21	DT	O3'-P-O5'	-11.31	87.04	104.00
18	B5	20	DT	O3'-P-O5'	-11.31	87.04	104.00
60	F2	30	DT	O3'-P-O5'	-11.31	87.04	104.00
66	F9	17	DT	O3'-P-O5'	-11.31	87.04	104.00
86	H7	17	DT	O3'-P-O5'	-11.31	87.04	104.00
130	L7	13	DT	O3'-P-O5'	-11.31	87.04	104.00
145	MD	10	DT	O3'-P-O5'	-11.31	87.04	104.00
157	O3	23	DT	O3'-P-O5'	-11.31	87.04	104.00
193	RD	10	DT	O3'-P-O5'	-11.31	87.04	104.00
204	T3	32	DT	O3'-P-O5'	-11.31	87.04	104.00
230	W3	25	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	602	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	1550	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	2348	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	2431	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	2816	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	5778	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	6174	DT	O3'-P-O5'	-11.31	87.04	104.00
181	Q9	29	DT	O3'-P-O5'	-11.31	87.04	104.00
7	A7	28	DT	O3'-P-O5'	-11.30	87.04	104.00
11	AB	431	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	603	DT	O3'-P-O5'	-11.30	87.04	104.00
11	AB	1563	DT	O3'-P-O5'	-11.30	87.04	104.00
11	AB	1718	DT	O3'-P-O5'	-11.30	87.04	104.00
11	AB	2115	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	2194	DT	O3'-P-O5'	-11.31	87.04	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2429	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	2570	DT	O3'-P-O5'	-11.30	87.04	104.00
11	AB	3716	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	3767	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	3907	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	5609	DT	O3'-P-O5'	-11.31	87.04	104.00
49	E2	25	DT	O3'-P-O5'	-11.30	87.04	104.00
53	E7	9	DT	O3'-P-O5'	-11.31	87.04	104.00
125	L1	30	DT	O3'-P-O5'	-11.31	87.04	104.00
178	Q5	31	DT	O3'-P-O5'	-11.31	87.04	104.00
191	RA	18	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	688	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	1507	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	1689	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	2493	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	2681	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	2967	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	3353	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	3483	DT	O3'-P-O5'	-11.30	87.04	104.00
11	AB	3848	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	4054	DA	O3'-P-O5'	-11.30	87.04	104.00
11	AB	4686	DT	O3'-P-O5'	-11.30	87.04	104.00
11	AB	5383	DT	O3'-P-O5'	-11.30	87.04	104.00
11	AB	5437	DT	O3'-P-O5'	-11.30	87.04	104.00
11	AB	6259	DT	O3'-P-O5'	-11.30	87.04	104.00
11	AB	6260	DT	O3'-P-O5'	-11.30	87.04	104.00
11	AB	7087	DT	O3'-P-O5'	-11.31	87.04	104.00
62	F5	8	DT	O3'-P-O5'	-11.31	87.04	104.00
11	AB	6398	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	6889	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	7060	DT	O3'-P-O5'	-11.30	87.04	104.00
77	G9	14	DT	O3'-P-O5'	-11.30	87.04	104.00
86	H7	9	DT	O3'-P-O5'	-11.30	87.04	104.00
86	H7	16	DT	O3'-P-O5'	-11.31	87.04	104.00
108	J7	17	DT	O3'-P-O5'	-11.31	87.04	104.00
83	H3	3	DT	O3'-P-O5'	-11.30	87.05	104.00
99	I9	8	DT	O3'-P-O5'	-11.30	87.05	104.00
105	J3	7	DT	O3'-P-O5'	-11.30	87.04	104.00
112	JC	17	DT	O3'-P-O5'	-11.30	87.05	104.00
144	MC	21	DT	O3'-P-O5'	-11.30	87.04	104.00
121	K9	17	DT	O3'-P-O5'	-11.30	87.05	104.00
129	L6	19	DT	O3'-P-O5'	-11.30	87.05	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
133	LA	4	DT	O3'-P-O5'	-11.30	87.05	104.00
133	LA	20	DT	O3'-P-O5'	-11.30	87.04	104.00
138	M5	39	DT	O3'-P-O5'	-11.30	87.05	104.00
147	N3	14	DT	O3'-P-O5'	-11.30	87.04	104.00
174	PC	21	DT	O3'-P-O5'	-11.30	87.05	104.00
181	Q9	28	DT	O3'-P-O5'	-11.30	87.04	104.00
188	R7	26	DT	O3'-P-O5'	-11.30	87.05	104.00
214	U5	23	DT	O3'-P-O5'	-11.30	87.04	104.00
214	U5	40	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	1070	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	1383	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	1680	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	4434	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	5915	DT	O3'-P-O5'	-11.30	87.05	104.00
138	M5	9	DT	O3'-P-O5'	-11.30	87.05	104.00
200	SA	17	DT	O3'-P-O5'	-11.30	87.05	104.00
8	A8	26	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	1205	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	1523	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	1686	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	1719	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	2363	DT	O3'-P-O5'	-11.30	87.05	104.00
214	U5	24	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	1831	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	1965	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	2405	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	2820	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	2835	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	3164	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	3505	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	4150	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	4223	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	4326	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	4720	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	5393	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	5089	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	5639	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	5713	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	5808	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	6419	DT	O3'-P-O5'	-11.30	87.05	104.00
231	W5	28	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	6426	DT	O3'-P-O5'	-11.30	87.05	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6489	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	6495	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	6639	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	6790	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	6879	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	7067	DT	O3'-P-O5'	-11.30	87.05	104.00
20	B7	15	DT	O3'-P-O5'	-11.30	87.05	104.00
54	E8	31	DT	O3'-P-O5'	-11.30	87.05	104.00
58	ED	26	DT	O3'-P-O5'	-11.30	87.05	104.00
77	G9	15	DT	O3'-P-O5'	-11.30	87.05	104.00
87	H8	6	DT	O3'-P-O5'	-11.30	87.05	104.00
105	J3	12	DT	O3'-P-O5'	-11.30	87.05	104.00
231	W5	29	DT	O3'-P-O5'	-11.30	87.05	104.00
108	J7	18	DT	O3'-P-O5'	-11.30	87.05	104.00
123	KC	13	DT	O3'-P-O5'	-11.30	87.05	104.00
124	KD	9	DT	O3'-P-O5'	-11.30	87.05	104.00
133	LA	8	DT	O3'-P-O5'	-11.30	87.05	104.00
149	N6	9	DT	O3'-P-O5'	-11.30	87.05	104.00
163	OA	15	DT	O3'-P-O5'	-11.30	87.05	104.00
8	A8	25	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	1392	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	1712	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	3305	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	6864	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	7035	DT	O3'-P-O5'	-11.30	87.05	104.00
227	VA	9	DT	O3'-P-O5'	-11.30	87.05	104.00
1	A1	56	DT	O3'-P-O5'	-11.30	87.06	104.00
11	AB	248	DT	O3'-P-O5'	-11.30	87.06	104.00
11	AB	362	DT	O3'-P-O5'	-11.30	87.06	104.00
11	AB	1539	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	1711	DT	O3'-P-O5'	-11.30	87.06	104.00
11	AB	3715	DT	O3'-P-O5'	-11.30	87.06	104.00
11	AB	4804	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	6191	DT	O3'-P-O5'	-11.30	87.06	104.00
11	AB	7056	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	7061	DT	O3'-P-O5'	-11.30	87.05	104.00
26	C1	15	DT	O3'-P-O5'	-11.30	87.05	104.00
60	F2	31	DT	O3'-P-O5'	-11.30	87.05	104.00
89	HA	6	DT	O3'-P-O5'	-11.30	87.05	104.00
89	HA	16	DT	O3'-P-O5'	-11.30	87.05	104.00
106	J5	10	DT	O3'-P-O5'	-11.30	87.05	104.00
89	HA	17	DT	O3'-P-O5'	-11.30	87.05	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
112	JC	19	DT	O3'-P-O5'	-11.30	87.05	104.00
119	K7	19	DT	O3'-P-O5'	-11.30	87.06	104.00
130	L7	11	DT	O3'-P-O5'	-11.30	87.06	104.00
138	M5	24	DT	O3'-P-O5'	-11.30	87.05	104.00
159	O6	1	DT	O3'-P-O5'	-11.30	87.06	104.00
166	P2	7	DT	O3'-P-O5'	-11.30	87.05	104.00
220	UD	11	DT	O3'-P-O5'	-11.30	87.05	104.00
11	AB	252	DT	O3'-P-O5'	-11.30	87.06	104.00
11	AB	560	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	1496	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	1716	DT	O3'-P-O5'	-11.30	87.06	104.00
11	AB	2201	DT	O3'-P-O5'	-11.30	87.06	104.00
11	AB	2439	DT	O3'-P-O5'	-11.30	87.06	104.00
11	AB	3948	DT	O3'-P-O5'	-11.30	87.06	104.00
11	AB	5318	DT	O3'-P-O5'	-11.30	87.06	104.00
11	AB	1528	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	2093	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	3008	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	3161	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	3329	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	3341	DT	O3'-P-O5'	-11.30	87.06	104.00
11	AB	4285	DT	O3'-P-O5'	-11.30	87.06	104.00
11	AB	6585	DT	O3'-P-O5'	-11.30	87.06	104.00
11	AB	6740	DT	O3'-P-O5'	-11.30	87.06	104.00
11	AB	3434	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	3995	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	4101	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	4798	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	4873	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	5537	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	5608	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	5622	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	6423	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	6500	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	6566	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	6569	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	7046	DT	O3'-P-O5'	-11.29	87.06	104.00
62	F5	30	DT	O3'-P-O5'	-11.30	87.06	104.00
154	NC	18	DT	O3'-P-O5'	-11.30	87.06	104.00
24	BC	35	DT	O3'-P-O5'	-11.29	87.06	104.00
53	E7	3	DT	O3'-P-O5'	-11.29	87.06	104.00
80	GD	7	DT	O3'-P-O5'	-11.29	87.06	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	GD	8	DT	O3'-P-O5'	-11.29	87.06	104.00
108	J7	43	DT	O3'-P-O5'	-11.29	87.06	104.00
112	JC	20	DT	O3'-P-O5'	-11.30	87.06	104.00
115	K2	7	DT	O3'-P-O5'	-11.29	87.06	104.00
171	P8	9	DT	O3'-P-O5'	-11.29	87.06	104.00
172	P9	23	DT	O3'-P-O5'	-11.29	87.06	104.00
198	S8	10	DT	O3'-P-O5'	-11.29	87.06	104.00
203	T2	6	DT	O3'-P-O5'	-11.29	87.06	104.00
203	T2	8	DT	O3'-P-O5'	-11.29	87.06	104.00
220	UD	2	DT	O3'-P-O5'	-11.30	87.06	104.00
227	VA	25	DT	O3'-P-O5'	-11.29	87.06	104.00
231	W5	10	DT	O3'-P-O5'	-11.30	87.06	104.00
11	AB	188	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	572	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	609	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	689	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	1120	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	2134	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	3410	DT	O3'-P-O5'	-11.29	87.06	104.00
74	G6	15	DT	O3'-P-O5'	-11.29	87.06	104.00
111	JA	2	DT	O3'-P-O5'	-11.29	87.06	104.00
113	JD	22	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	975	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	1157	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	1487	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	1566	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	2707	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	3467	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	4235	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	1725	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	2097	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	2735	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	4265	DA	O3'-P-O5'	-11.29	87.06	104.00
11	AB	4605	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	4721	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	4797	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	5809	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	6128	DT	O3'-P-O5'	-11.29	87.06	104.00
191	RA	19	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	6427	DT	O3'-P-O5'	-11.29	87.06	104.00
39	D3	23	DT	O3'-P-O5'	-11.29	87.06	104.00
55	E9	5	DT	O3'-P-O5'	-11.29	87.06	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
62	F5	9	DT	O3'-P-O5'	-11.29	87.06	104.00
67	FA	24	DT	O3'-P-O5'	-11.29	87.06	104.00
81	H1	8	DT	O3'-P-O5'	-11.29	87.06	104.00
118	K6	6	DT	O3'-P-O5'	-11.29	87.06	104.00
119	K7	6	DT	O3'-P-O5'	-11.29	87.06	104.00
119	K7	42	DT	O3'-P-O5'	-11.29	87.06	104.00
142	M9	13	DT	O3'-P-O5'	-11.29	87.06	104.00
144	MC	22	DT	O3'-P-O5'	-11.29	87.06	104.00
149	N6	22	DT	O3'-P-O5'	-11.29	87.06	104.00
157	O3	20	DT	O3'-P-O5'	-11.29	87.06	104.00
159	O6	3	DT	O3'-P-O5'	-11.29	87.06	104.00
183	QC	26	DT	O3'-P-O5'	-11.29	87.06	104.00
216	U8	22	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	176	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	376	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	976	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	1302	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	1553	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	2680	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	6257	DT	O3'-P-O5'	-11.29	87.06	104.00
230	W3	11	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	189	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	221	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	2801	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	2834	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	3004	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	3612	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	3828	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	6237	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	6487	DT	O3'-P-O5'	-11.29	87.06	104.00
21	B8	23	DT	O3'-P-O5'	-11.29	87.07	104.00
32	C8	13	DT	O3'-P-O5'	-11.29	87.06	104.00
160	O7	51	DT	O3'-P-O5'	-11.29	87.06	104.00
192	RC	29	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	363	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	388	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	599	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	1097	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	1554	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	1933	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	2596	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	4236	DT	O3'-P-O5'	-11.29	87.07	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5164	DT	O3'-P-O5'	-11.29	87.07	104.00
55	E9	6	DT	O3'-P-O5'	-11.29	87.07	104.00
55	E9	9	DT	O3'-P-O5'	-11.29	87.06	104.00
68	FC	9	DT	O3'-P-O5'	-11.29	87.07	104.00
70	G1	1	DT	O3'-P-O5'	-11.29	87.06	104.00
105	J3	6	DT	O3'-P-O5'	-11.29	87.06	104.00
123	KC	14	DT	O3'-P-O5'	-11.29	87.06	104.00
145	MD	47	DT	O3'-P-O5'	-11.29	87.06	104.00
198	S8	11	DT	O3'-P-O5'	-11.29	87.06	104.00
11	AB	1710	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	1822	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	2368	DA	O3'-P-O5'	-11.29	87.07	104.00
11	AB	2821	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	2957	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	3330	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	5465	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	5523	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	5538	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	5787	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	6033	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	6417	DT	O3'-P-O5'	-11.29	87.07	104.00
32	C8	12	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	6599	DT	O3'-P-O5'	-11.29	87.07	104.00
55	E9	32	DT	O3'-P-O5'	-11.29	87.07	104.00
77	G9	6	DT	O3'-P-O5'	-11.29	87.07	104.00
125	L1	38	DT	O3'-P-O5'	-11.29	87.07	104.00
125	L1	43	DT	O3'-P-O5'	-11.29	87.06	104.00
144	MC	14	DT	O3'-P-O5'	-11.29	87.07	104.00
79	GC	19	DT	O3'-P-O5'	-11.29	87.07	104.00
117	K5	30	DT	O3'-P-O5'	-11.29	87.07	104.00
120	K8	19	DT	O3'-P-O5'	-11.29	87.07	104.00
121	K9	16	DT	O3'-P-O5'	-11.29	87.07	104.00
138	M5	20	DT	O3'-P-O5'	-11.29	87.07	104.00
159	O6	2	DT	O3'-P-O5'	-11.29	87.07	104.00
166	P2	15	DT	O3'-P-O5'	-11.29	87.07	104.00
192	RC	31	DT	O3'-P-O5'	-11.29	87.07	104.00
182	QA	25	DT	O3'-P-O5'	-11.29	87.07	104.00
190	R9	34	DT	O3'-P-O5'	-11.29	87.07	104.00
209	TA	19	DT	O3'-P-O5'	-11.29	87.07	104.00
214	U5	19	DT	O3'-P-O5'	-11.29	87.07	104.00
214	U5	41	DT	O3'-P-O5'	-11.29	87.07	104.00
217	U9	26	DT	O3'-P-O5'	-11.29	87.07	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	165	DT	O3'-P-O5'	-11.28	87.07	104.00
11	AB	178	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	382	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	1345	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	2505	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	3312	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	668	DT	O3'-P-O5'	-11.28	87.07	104.00
11	AB	1233	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	1681	DT	O3'-P-O5'	-11.28	87.07	104.00
11	AB	1964	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	2503	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	2676	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	2411	DT	O3'-P-O5'	-11.28	87.07	104.00
11	AB	2624	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	2693	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	5210	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	3994	DT	O3'-P-O5'	-11.28	87.07	104.00
11	AB	4404	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	4874	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	5244	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	5819	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	6990	DT	O3'-P-O5'	-11.29	87.07	104.00
89	HA	15	DT	O3'-P-O5'	-11.29	87.07	104.00
219	UC	9	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	4923	DT	O3'-P-O5'	-11.28	87.07	104.00
11	AB	5284	DT	O3'-P-O5'	-11.29	87.07	104.00
12	AC	14	DT	O3'-P-O5'	-11.29	87.07	104.00
11	AB	6078	DT	O3'-P-O5'	-11.28	87.08	104.00
25	BD	18	DT	O3'-P-O5'	-11.28	87.07	104.00
39	D3	22	DT	O3'-P-O5'	-11.28	87.07	104.00
41	D6	37	DT	O3'-P-O5'	-11.29	87.07	104.00
84	H5	27	DT	O3'-P-O5'	-11.29	87.07	104.00
86	H7	8	DT	O3'-P-O5'	-11.28	87.07	104.00
92	I1	20	DT	O3'-P-O5'	-11.29	87.07	104.00
117	K5	34	DT	O3'-P-O5'	-11.29	87.07	104.00
137	M3	27	DT	O3'-P-O5'	-11.29	87.07	104.00
138	M5	11	DT	O3'-P-O5'	-11.28	87.07	104.00
141	M8	11	DT	O3'-P-O5'	-11.29	87.07	104.00
147	N3	27	DT	O3'-P-O5'	-11.29	87.07	104.00
154	NC	16	DT	O3'-P-O5'	-11.29	87.07	104.00
180	Q8	27	DT	O3'-P-O5'	-11.29	87.07	104.00
215	U7	16	DT	O3'-P-O5'	-11.29	87.07	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
221	V2	16	DT	O3'-P-O5'	-11.29	87.07	104.00
183	QC	15	DT	O3'-P-O5'	-11.28	87.08	104.00
189	R8	33	DT	O3'-P-O5'	-11.28	87.07	104.00
208	T9	6	DT	O3'-P-O5'	-11.29	87.07	104.00
215	U7	9	DT	O3'-P-O5'	-11.28	87.07	104.00
217	U9	14	DT	O3'-P-O5'	-11.28	87.07	104.00
218	UA	3	DT	O3'-P-O5'	-11.29	87.07	104.00
219	UC	21	DT	O3'-P-O5'	-11.28	87.08	104.00
225	V8	8	DT	O3'-P-O5'	-11.28	87.07	104.00
11	AB	1129	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	1303	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	1304	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	1313	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	1409	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	1545	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	1795	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	2174	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	2979	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	3285	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	4350	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	6302	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	6593	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	6808	DT	O3'-P-O5'	-11.28	87.08	104.00
13	AD	5	DT	O3'-P-O5'	-11.28	87.08	104.00
104	J2	19	DT	O3'-P-O5'	-11.28	87.08	104.00
222	V3	8	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	2507	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	2585	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	2670	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	2786	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	2797	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	2993	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	3127	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	3200	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	3331	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	3522	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	3526	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	3550	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	3908	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	4762	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	5395	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	5690	DT	O3'-P-O5'	-11.28	87.08	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5731	DT	O3'-P-O5'	-11.28	87.08	104.00
41	D6	40	DT	O3'-P-O5'	-11.28	87.08	104.00
125	L1	17	DT	O3'-P-O5'	-11.28	87.08	104.00
196	S5	5	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	5790	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	6488	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	6603	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	6654	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	6958	DT	O3'-P-O5'	-11.28	87.08	104.00
49	E2	26	DT	O3'-P-O5'	-11.28	87.08	104.00
88	H9	7	DT	O3'-P-O5'	-11.28	87.08	104.00
136	M2	2	DT	O3'-P-O5'	-11.28	87.08	104.00
170	P7	8	DT	O3'-P-O5'	-11.28	87.08	104.00
178	Q5	32	DT	O3'-P-O5'	-11.28	87.08	104.00
206	T7	26	DT	O3'-P-O5'	-11.28	87.08	104.00
208	T9	12	DT	O3'-P-O5'	-11.28	87.08	104.00
211	TD	26	DT	O3'-P-O5'	-11.28	87.08	104.00
220	UD	3	DT	O3'-P-O5'	-11.28	87.08	104.00
230	W3	26	DT	O3'-P-O5'	-11.28	87.08	104.00
7	A7	29	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	632	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	732	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	2016	DT	O3'-P-O5'	-11.28	87.08	104.00
49	E2	22	DT	O3'-P-O5'	-11.28	87.08	104.00
236	X5	15	DT	O3'-P-O5'	-11.28	87.08	104.00
5	A5	26	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	281	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	331	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	652	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	1307	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	1402	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	5030	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	1350	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	1635	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	1687	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	1846	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	1957	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	1973	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	5598	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	7088	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	7222	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	2006	DT	O3'-P-O5'	-11.28	87.08	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2335	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	3672	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	4274	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	3760	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	3788	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	4677	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	5317	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	5812	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	5931	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	5999	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	6095	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	6415	DT	O3'-P-O5'	-11.28	87.08	104.00
54	E8	19	DT	O3'-P-O5'	-11.28	87.08	104.00
57	EC	17	DT	O3'-P-O5'	-11.28	87.08	104.00
58	ED	41	DT	O3'-P-O5'	-11.28	87.08	104.00
67	FA	8	DT	O3'-P-O5'	-11.28	87.08	104.00
98	I8	27	DT	O3'-P-O5'	-11.28	87.08	104.00
126	L2	32	DT	O3'-P-O5'	-11.28	87.08	104.00
144	MC	17	DT	O3'-P-O5'	-11.28	87.08	104.00
146	N2	11	DT	O3'-P-O5'	-11.28	87.08	104.00
155	ND	17	DT	O3'-P-O5'	-11.28	87.08	104.00
171	P8	8	DT	O3'-P-O5'	-11.28	87.08	104.00
178	Q5	33	DT	O3'-P-O5'	-11.28	87.08	104.00
181	Q9	30	DT	O3'-P-O5'	-11.28	87.08	104.00
190	R9	21	DT	O3'-P-O5'	-11.28	87.08	104.00
203	T2	18	DT	O3'-P-O5'	-11.28	87.08	104.00
222	V3	6	DT	O3'-P-O5'	-11.28	87.08	104.00
237	X7	4	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	1726	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	3006	DT	O3'-P-O5'	-11.28	87.08	104.00
143	MA	5	DT	O3'-P-O5'	-11.28	87.08	104.00
7	A7	38	DT	O3'-P-O5'	-11.28	87.09	104.00
9	A9	15	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	134	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	1220	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	1381	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	1471	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	1817	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	2087	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	2518	DT	O3'-P-O5'	-11.28	87.08	104.00
68	FC	15	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	2243	DT	O3'-P-O5'	-11.28	87.09	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2517	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	2597	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	3183	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	3480	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	3747	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	3800	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	3928	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	4433	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	5224	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	6994	DT	O3'-P-O5'	-11.28	87.08	104.00
40	D5	12	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	5438	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	5444	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	5519	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	5730	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	5752	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	5803	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	6011	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	6396	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	6232	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	6598	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	7055	DT	O3'-P-O5'	-11.28	87.08	104.00
11	AB	7115	DT	O3'-P-O5'	-11.28	87.09	104.00
14	B1	12	DT	O3'-P-O5'	-11.28	87.09	104.00
31	C7	28	DT	O3'-P-O5'	-11.28	87.08	104.00
43	D8	44	DT	O3'-P-O5'	-11.28	87.08	104.00
68	FC	12	DT	O3'-P-O5'	-11.28	87.09	104.00
154	NC	13	DT	O3'-P-O5'	-11.28	87.09	104.00
158	O5	16	DT	O3'-P-O5'	-11.28	87.09	104.00
183	QC	24	DT	O3'-P-O5'	-11.28	87.09	104.00
206	T7	46	DT	O3'-P-O5'	-11.28	87.09	104.00
238	X9	46	DT	O3'-P-O5'	-11.28	87.09	104.00
11	AB	132	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	226	DT	O3'-P-O5'	-11.27	87.09	104.00
2	A2	15	DT	O3'-P-O5'	-11.27	87.09	104.00
4	A4	29	DT	O3'-P-O5'	-11.27	87.09	104.00
8	A8	13	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	530	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	794	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	1013	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	1388	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	2721	DT	O3'-P-O5'	-11.27	87.09	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5671	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	6983	DT	O3'-P-O5'	-11.27	87.09	104.00
25	BD	12	DT	O3'-P-O5'	-11.27	87.09	104.00
35	CC	5	DT	O3'-P-O5'	-11.27	87.09	104.00
207	T8	24	DT	O3'-P-O5'	-11.27	87.09	104.00
222	V3	2	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	771	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	799	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	1148	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	1504	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	1513	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	4137	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	1619	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	1632	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	1747	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	2111	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	2474	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	2494	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	2548	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	2963	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	3156	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	3160	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	3222	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	3336	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	3397	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	4291	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	5156	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	6480	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	6496	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	6587	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	6737	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	7092	DT	O3'-P-O5'	-11.27	87.09	104.00
18	B5	18	DT	O3'-P-O5'	-11.27	87.09	104.00
49	E2	15	DT	O3'-P-O5'	-11.27	87.09	104.00
62	F5	45	DT	O3'-P-O5'	-11.27	87.09	104.00
95	I5	25	DT	O3'-P-O5'	-11.27	87.09	104.00
165	OD	47	DT	O3'-P-O5'	-11.27	87.09	104.00
168	P5	13	DT	O3'-P-O5'	-11.27	87.09	104.00
230	W3	24	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	2847	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	3440	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	3886	DT	O3'-P-O5'	-11.27	87.09	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4318	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	4698	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	4722	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	4751	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	4957	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	6321	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	6558	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	6575	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	6803	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	6828	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	7104	DT	O3'-P-O5'	-11.27	87.09	104.00
23	BA	22	DT	O3'-P-O5'	-11.27	87.09	104.00
36	CD	20	DT	O3'-P-O5'	-11.27	87.09	104.00
51	E5	14	DT	O3'-P-O5'	-11.27	87.09	104.00
131	L8	14	DT	O3'-P-O5'	-11.27	87.09	104.00
72	G3	5	DT	O3'-P-O5'	-11.27	87.09	104.00
84	H5	15	DT	O3'-P-O5'	-11.27	87.09	104.00
98	I8	40	DT	O3'-P-O5'	-11.27	87.09	104.00
101	IC	8	DT	O3'-P-O5'	-11.27	87.09	104.00
108	J7	24	DT	O3'-P-O5'	-11.27	87.09	104.00
114	K1	37	DT	O3'-P-O5'	-11.27	87.09	104.00
146	N2	18	DT	O3'-P-O5'	-11.27	87.09	104.00
154	NC	36	DT	O3'-P-O5'	-11.27	87.09	104.00
185	R2	22	DT	O3'-P-O5'	-11.27	87.09	104.00
210	TC	13	DT	O3'-P-O5'	-11.27	87.09	104.00
123	KC	6	DT	O3'-P-O5'	-11.27	87.09	104.00
158	O5	30	DT	O3'-P-O5'	-11.27	87.09	104.00
173	PA	23	DT	O3'-P-O5'	-11.27	87.09	104.00
183	QC	25	DT	O3'-P-O5'	-11.27	87.09	104.00
211	TD	5	DT	O3'-P-O5'	-11.27	87.09	104.00
221	V2	23	DT	O3'-P-O5'	-11.27	87.09	104.00
223	V5	35	DT	O3'-P-O5'	-11.27	87.09	104.00
230	W3	22	DT	O3'-P-O5'	-11.27	87.09	104.00
235	WD	19	DT	O3'-P-O5'	-11.27	87.09	104.00
1	A1	54	DT	O3'-P-O5'	-11.27	87.10	104.00
5	A5	4	DT	O3'-P-O5'	-11.27	87.09	104.00
5	A5	13	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	163	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	506	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	3849	DT	O3'-P-O5'	-11.27	87.09	104.00
4	A4	26	DT	O3'-P-O5'	-11.27	87.10	104.00
4	A4	28	DT	O3'-P-O5'	-11.27	87.10	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	135	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	368	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	1139	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	1237	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	1608	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	2641	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	947	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	1543	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	1774	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	1776	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	1934	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	2498	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	3401	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	1576	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	1682	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	1779	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	2047	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	2199	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	2357	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	6007	DT	O3'-P-O5'	-11.27	87.10	104.00
201	SC	3	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	2934	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	3588	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	3704	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	3744	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	3930	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	5363	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	6246	DT	O3'-P-O5'	-11.27	87.09	104.00
54	E8	13	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	3624	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	3885	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	3961	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	5435	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	5820	DT	O3'-P-O5'	-11.27	87.09	104.00
108	J7	13	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	5810	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	5832	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	5882	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	6549	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	6649	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	6673	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	7063	DT	O3'-P-O5'	-11.27	87.10	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7079	DT	O3'-P-O5'	-11.27	87.10	104.00
16	B3	19	DT	O3'-P-O5'	-11.27	87.09	104.00
42	D7	10	DT	O3'-P-O5'	-11.27	87.09	104.00
11	AB	7097	DT	O3'-P-O5'	-11.27	87.10	104.00
37	D1	4	DT	O3'-P-O5'	-11.27	87.10	104.00
53	E7	22	DT	O3'-P-O5'	-11.27	87.10	104.00
54	E8	24	DT	O3'-P-O5'	-11.27	87.10	104.00
60	F2	32	DT	O3'-P-O5'	-11.27	87.10	104.00
61	F3	25	DC	O3'-P-O5'	-11.27	87.10	104.00
72	G3	21	DT	O3'-P-O5'	-11.27	87.10	104.00
84	H5	4	DT	O3'-P-O5'	-11.27	87.10	104.00
97	I7	12	DT	O3'-P-O5'	-11.27	87.10	104.00
105	J3	28	DT	O3'-P-O5'	-11.27	87.10	104.00
138	M5	18	DT	O3'-P-O5'	-11.27	87.10	104.00
148	N5	33	DT	O3'-P-O5'	-11.27	87.10	104.00
171	P8	21	DT	O3'-P-O5'	-11.27	87.10	104.00
172	P9	12	DT	O3'-P-O5'	-11.27	87.10	104.00
223	V5	40	DT	O3'-P-O5'	-11.27	87.09	104.00
186	R3	21	DT	O3'-P-O5'	-11.27	87.10	104.00
189	R8	13	DT	O3'-P-O5'	-11.27	87.10	104.00
189	R8	25	DT	O3'-P-O5'	-11.27	87.10	104.00
213	U3	17	DT	O3'-P-O5'	-11.27	87.10	104.00
219	UC	11	DT	O3'-P-O5'	-11.27	87.10	104.00
235	WD	20	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	257	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	380	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	1826	DT	O3'-P-O5'	-11.27	87.10	104.00
9	A9	1	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	131	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	617	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	810	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	1212	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	1437	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	1865	DA	O3'-P-O5'	-11.27	87.10	104.00
11	AB	1939	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	2249	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	3135	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	3223	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	3327	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	3668	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	4181	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	4732	DG	P-O3'-C3'	-11.27	103.30	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4872	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	6234	DT	O3'-P-O5'	-11.27	87.10	104.00
13	AD	20	DT	O3'-P-O5'	-11.27	87.10	104.00
26	C1	16	DT	O3'-P-O5'	-11.27	87.10	104.00
41	D6	39	DT	O3'-P-O5'	-11.27	87.10	104.00
43	D8	45	DT	O3'-P-O5'	-11.27	87.10	104.00
196	S5	25	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	2807	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	3027	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	3427	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	3618	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	4079	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	4120	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	4224	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	4316	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	4353	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	5270	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	5280	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	5328	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	5329	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	5767	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	6366	DT	O3'-P-O5'	-11.27	87.10	104.00
94	I3	7	DT	O3'-P-O5'	-11.27	87.10	104.00
161	O8	24	DT	O3'-P-O5'	-11.27	87.10	104.00
191	RA	29	DT	O3'-P-O5'	-11.27	87.10	104.00
224	V7	7	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	5854	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	5855	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	5880	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	6162	DT	O3'-P-O5'	-11.27	87.10	104.00
11	AB	6561	DT	O3'-P-O5'	-11.27	87.10	104.00
12	AC	10	DT	O3'-P-O5'	-11.27	87.10	104.00
29	C5	37	DT	O3'-P-O5'	-11.27	87.10	104.00
56	EA	16	DT	O3'-P-O5'	-11.27	87.10	104.00
62	F5	28	DT	O3'-P-O5'	-11.27	87.10	104.00
78	GA	4	DT	O3'-P-O5'	-11.27	87.10	104.00
89	HA	7	DT	O3'-P-O5'	-11.27	87.10	104.00
105	J3	25	DT	O3'-P-O5'	-11.27	87.10	104.00
105	J3	30	DC	O3'-P-O5'	-11.27	87.10	104.00
130	L7	17	DT	O3'-P-O5'	-11.27	87.10	104.00
142	M9	3	DT	O3'-P-O5'	-11.27	87.10	104.00
178	Q5	13	DT	O3'-P-O5'	-11.27	87.10	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
178	Q5	18	DT	O3'-P-O5'	-11.27	87.10	104.00
181	Q9	10	DT	O3'-P-O5'	-11.27	87.10	104.00
195	S3	12	DT	O3'-P-O5'	-11.27	87.10	104.00
203	T2	15	DT	O3'-P-O5'	-11.27	87.10	104.00
216	U8	1	DT	O3'-P-O5'	-11.27	87.10	104.00
237	X7	22	DT	O3'-P-O5'	-11.27	87.10	104.00
8	A8	27	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3059	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	4954	DT	O3'-P-O5'	-11.26	87.10	104.00
11	AB	5423	DT	O3'-P-O5'	-11.26	87.10	104.00
141	M8	29	DT	O3'-P-O5'	-11.26	87.10	104.00
195	S3	19	DT	O3'-P-O5'	-11.26	87.11	104.00
9	A9	3	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	239	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	620	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	776	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	1278	DT	O3'-P-O5'	-11.26	87.10	104.00
11	AB	2233	DT	O3'-P-O5'	-11.26	87.10	104.00
11	AB	2330	DT	O3'-P-O5'	-11.26	87.10	104.00
11	AB	2381	DT	O3'-P-O5'	-11.26	87.10	104.00
11	AB	1503	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	1708	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	1780	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	1955	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2051	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3572	DT	O3'-P-O5'	-11.26	87.10	104.00
11	AB	4687	DT	O3'-P-O5'	-11.26	87.10	104.00
11	AB	5291	DT	O3'-P-O5'	-11.26	87.10	104.00
11	AB	5319	DT	O3'-P-O5'	-11.26	87.10	104.00
11	AB	5617	DT	O3'-P-O5'	-11.26	87.10	104.00
32	C8	49	DT	O3'-P-O5'	-11.26	87.10	104.00
155	ND	11	DT	O3'-P-O5'	-11.26	87.10	104.00
187	R5	18	DG	P-O3'-C3'	-11.26	103.30	120.20
212	U2	23	DT	O3'-P-O5'	-11.26	87.10	104.00
11	AB	2232	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2254	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2475	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3177	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3244	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3473	DG	P-O3'-C3'	-11.26	103.31	120.20
11	AB	3536	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3869	DT	O3'-P-O5'	-11.26	87.11	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4317	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	4996	DG	P-O3'-C3'	-11.26	103.31	120.20
11	AB	5031	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	5181	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	5501	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	5711	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	5751	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	5856	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	6020	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	6127	DT	O3'-P-O5'	-11.26	87.11	104.00
115	K2	31	DT	O3'-P-O5'	-11.26	87.10	104.00
11	AB	6197	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	6204	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	7036	DT	O3'-P-O5'	-11.26	87.10	104.00
68	FC	3	DT	O3'-P-O5'	-11.26	87.10	104.00
11	AB	6588	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	6738	DT	O3'-P-O5'	-11.26	87.11	104.00
19	B6	10	DT	O3'-P-O5'	-11.26	87.11	104.00
22	B9	29	DT	O3'-P-O5'	-11.26	87.11	104.00
109	J8	5	DT	O3'-P-O5'	-11.26	87.11	104.00
112	JC	15	DT	O3'-P-O5'	-11.26	87.11	104.00
117	K5	1	DT	O3'-P-O5'	-11.26	87.11	104.00
129	L6	7	DT	O3'-P-O5'	-11.26	87.10	104.00
130	L7	45	DT	O3'-P-O5'	-11.26	87.11	104.00
136	M2	11	DT	O3'-P-O5'	-11.26	87.11	104.00
136	M2	12	DT	O3'-P-O5'	-11.26	87.11	104.00
143	MA	16	DT	O3'-P-O5'	-11.26	87.10	104.00
149	N6	14	DT	O3'-P-O5'	-11.26	87.11	104.00
150	N7	16	DT	O3'-P-O5'	-11.26	87.11	104.00
154	NC	15	DT	O3'-P-O5'	-11.26	87.11	104.00
160	O7	30	DC	O3'-P-O5'	-11.26	87.10	104.00
172	P9	11	DT	O3'-P-O5'	-11.26	87.11	104.00
176	Q2	16	DT	O3'-P-O5'	-11.26	87.11	104.00
180	Q8	18	DT	O3'-P-O5'	-11.26	87.11	104.00
184	QD	12	DT	O3'-P-O5'	-11.26	87.11	104.00
211	TD	6	DT	O3'-P-O5'	-11.26	87.10	104.00
215	U7	11	DG	P-O3'-C3'	-11.26	103.30	120.20
190	R9	2	DT	O3'-P-O5'	-11.26	87.11	104.00
8	A8	18	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	119	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2158	DT	O3'-P-O5'	-11.26	87.11	104.00
21	B8	6	DT	O3'-P-O5'	-11.26	87.11	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
177	Q3	6	DT	O3'-P-O5'	-11.26	87.11	104.00
5	A5	36	DT	O3'-P-O5'	-11.26	87.11	104.00
9	A9	4	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	392	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	696	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	1324	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	1356	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	1537	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	1946	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3195	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	5952	DT	O3'-P-O5'	-11.26	87.11	104.00
101	IC	9	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	1439	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	1457	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	1644	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	1671	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	1740	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	1985	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2101	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2858	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2048	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2393	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2626	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2752	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2889	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	5354	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2894	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3117	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3506	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3763	DC	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3852	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3996	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3987	DC	O3'-P-O5'	-11.26	87.11	104.00
11	AB	4102	DT	O3'-P-O5'	-11.26	87.11	104.00
16	B3	14	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	4408	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	4415	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	4425	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	5265	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	5784	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	5905	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	5994	DT	O3'-P-O5'	-11.26	87.11	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6225	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	6993	DT	O3'-P-O5'	-11.26	87.11	104.00
20	B7	5	DT	O3'-P-O5'	-11.26	87.11	104.00
105	J3	26	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	6293	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	6766	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	7001	DT	O3'-P-O5'	-11.26	87.11	104.00
16	B3	9	DT	O3'-P-O5'	-11.26	87.11	104.00
33	C9	26	DT	O3'-P-O5'	-11.26	87.11	104.00
44	D9	20	DT	O3'-P-O5'	-11.26	87.11	104.00
51	E5	17	DT	O3'-P-O5'	-11.26	87.11	104.00
62	F5	22	DT	O3'-P-O5'	-11.26	87.11	104.00
56	EA	13	DT	O3'-P-O5'	-11.26	87.11	104.00
66	F9	21	DT	O3'-P-O5'	-11.26	87.11	104.00
69	FD	13	DT	O3'-P-O5'	-11.26	87.11	104.00
102	ID	27	DT	O3'-P-O5'	-11.26	87.11	104.00
107	J6	31	DT	O3'-P-O5'	-11.26	87.11	104.00
110	J9	5	DT	O3'-P-O5'	-11.26	87.11	104.00
123	KC	27	DT	O3'-P-O5'	-11.26	87.11	104.00
131	L8	28	DT	O3'-P-O5'	-11.26	87.11	104.00
133	LA	21	DT	O3'-P-O5'	-11.26	87.11	104.00
138	M5	26	DT	O3'-P-O5'	-11.26	87.11	104.00
172	P9	13	DT	O3'-P-O5'	-11.26	87.11	104.00
211	TD	1	DT	O3'-P-O5'	-11.26	87.11	104.00
142	M9	10	DT	O3'-P-O5'	-11.26	87.11	104.00
157	O3	4	DT	O3'-P-O5'	-11.26	87.11	104.00
160	O7	23	DT	O3'-P-O5'	-11.26	87.11	104.00
165	OD	25	DT	O3'-P-O5'	-11.26	87.11	104.00
173	PA	22	DT	O3'-P-O5'	-11.26	87.11	104.00
175	PD	5	DG	P-O3'-C3'	-11.26	103.31	120.20
189	R8	12	DT	O3'-P-O5'	-11.26	87.11	104.00
190	R9	24	DT	O3'-P-O5'	-11.26	87.11	104.00
193	RD	12	DT	O3'-P-O5'	-11.26	87.11	104.00
215	U7	4	DT	O3'-P-O5'	-11.26	87.11	104.00
221	V2	2	DT	O3'-P-O5'	-11.26	87.11	104.00
231	W5	19	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	741	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2155	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2930	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	5125	DT	O3'-P-O5'	-11.26	87.11	104.00
3	A3	4	DT	O3'-P-O5'	-11.26	87.11	104.00
3	A3	18	DT	O3'-P-O5'	-11.26	87.11	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	27	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	36	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	143	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	144	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	334	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	1533	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2129	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2282	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2459	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2530	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2704	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2768	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2871	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2945	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	2958	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3103	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3209	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3233	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3321	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3746	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	4458	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	5684	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	5724	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	6101	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	6372	DT	O3'-P-O5'	-11.26	87.11	104.00
29	C5	17	DT	O3'-P-O5'	-11.26	87.11	104.00
52	E6	2	DT	O3'-P-O5'	-11.26	87.11	104.00
73	G5	10	DT	O3'-P-O5'	-11.26	87.11	104.00
74	G6	25	DT	O3'-P-O5'	-11.26	87.11	104.00
196	S5	30	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	66	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	507	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	566	DT	O3'-P-O5'	-11.26	87.12	104.00
37	D1	17	DG	P-O3'-C3'	-11.26	103.31	120.20
42	D7	1	DT	O3'-P-O5'	-11.26	87.11	104.00
52	E6	30	DG	P-O3'-C3'	-11.26	103.31	120.20
91	HD	9	DT	O3'-P-O5'	-11.26	87.11	104.00
96	I6	12	DT	O3'-P-O5'	-11.26	87.11	104.00
99	I9	1	DT	O3'-P-O5'	-11.26	87.11	104.00
125	L1	31	DT	O3'-P-O5'	-11.26	87.11	104.00
126	L2	9	DT	O3'-P-O5'	-11.26	87.11	104.00
130	L7	51	DT	O3'-P-O5'	-11.26	87.11	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
161	O8	48	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	796	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	1273	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	1332	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	1351	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	1584	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	1587	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	1995	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	2225	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	2257	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	2469	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	2560	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	3014	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	3017	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	5714	DT	O3'-P-O5'	-11.26	87.11	104.00
31	C7	8	DT	O3'-P-O5'	-11.26	87.11	104.00
149	N6	16	DT	O3'-P-O5'	-11.26	87.11	104.00
236	X5	21	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	3598	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	3666	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	3667	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	4245	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	4309	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	4407	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	5679	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	6143	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	6148	DT	O3'-P-O5'	-11.26	87.12	104.00
49	E2	9	DT	O3'-P-O5'	-11.26	87.11	104.00
117	K5	14	DT	O3'-P-O5'	-11.26	87.11	104.00
188	R7	30	DC	O3'-P-O5'	-11.26	87.11	104.00
11	AB	6206	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	6281	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	6393	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	6668	DT	O3'-P-O5'	-11.26	87.12	104.00
11	AB	7103	DT	O3'-P-O5'	-11.26	87.12	104.00
129	L6	9	DT	O3'-P-O5'	-11.26	87.11	104.00
152	N9	50	DT	O3'-P-O5'	-11.26	87.11	104.00
237	X7	1	DT	O3'-P-O5'	-11.26	87.11	104.00
11	AB	7133	DT	O3'-P-O5'	-11.26	87.12	104.00
21	B8	1	DT	O3'-P-O5'	-11.26	87.12	104.00
32	C8	51	DT	O3'-P-O5'	-11.26	87.12	104.00
50	E3	11	DT	O3'-P-O5'	-11.26	87.12	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	E9	36	DT	O3'-P-O5'	-11.26	87.12	104.00
58	ED	11	DC	O3'-P-O5'	-11.26	87.12	104.00
62	F5	36	DT	O3'-P-O5'	-11.26	87.12	104.00
77	G9	2	DT	O3'-P-O5'	-11.26	87.12	104.00
86	H7	18	DT	O3'-P-O5'	-11.26	87.12	104.00
94	I3	55	DG	P-O3'-C3'	-11.26	103.32	120.20
105	J3	13	DT	O3'-P-O5'	-11.26	87.12	104.00
126	L2	10	DT	O3'-P-O5'	-11.26	87.12	104.00
129	L6	8	DT	O3'-P-O5'	-11.26	87.12	104.00
141	M8	22	DT	O3'-P-O5'	-11.26	87.12	104.00
142	M9	12	DT	O3'-P-O5'	-11.26	87.12	104.00
152	N9	5	DT	O3'-P-O5'	-11.26	87.12	104.00
176	Q2	20	DT	O3'-P-O5'	-11.26	87.12	104.00
190	R9	1	DT	O3'-P-O5'	-11.26	87.11	104.00
218	UA	2	DT	O3'-P-O5'	-11.26	87.12	104.00
219	UC	10	DT	O3'-P-O5'	-11.26	87.12	104.00
228	VC	37	DT	O3'-P-O5'	-11.26	87.12	104.00
6	A6	19	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	130	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	159	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	1344	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	3396	DT	O3'-P-O5'	-11.25	87.12	104.00
172	P9	10	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	254	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	282	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	654	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	1279	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	1397	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	1631	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	1698	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	2182	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	3855	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	4191	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	5746	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	6351	DT	O3'-P-O5'	-11.25	87.12	104.00
54	E8	11	DT	O3'-P-O5'	-11.25	87.12	104.00
72	G3	16	DT	O3'-P-O5'	-11.25	87.12	104.00
228	VC	18	DC	O3'-P-O5'	-11.25	87.12	104.00
11	AB	684	DC	O3'-P-O5'	-11.25	87.12	104.00
11	AB	699	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	795	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	1079	DT	O3'-P-O5'	-11.25	87.12	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1296	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	1373	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	1377	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	1567	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	1873	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	2421	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	2427	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	2904	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	3385	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	3831	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	4417	DT	O3'-P-O5'	-11.25	87.12	104.00
69	FD	22	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	2708	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	3281	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	3302	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	3548	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	4830	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	5330	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	5644	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	5919	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	5937	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	6368	DT	O3'-P-O5'	-11.25	87.12	104.00
51	E5	31	DT	O3'-P-O5'	-11.25	87.12	104.00
82	H2	10	DT	O3'-P-O5'	-11.25	87.12	104.00
95	I5	40	DT	O3'-P-O5'	-11.25	87.12	104.00
166	P2	18	DT	O3'-P-O5'	-11.25	87.12	104.00
232	W7	13	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	5368	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	5432	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	5542	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	5595	DC	O3'-P-O5'	-11.25	87.12	104.00
11	AB	5661	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	6172	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	6606	DC	O3'-P-O5'	-11.25	87.12	104.00
11	AB	6699	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	6890	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	6913	DT	O3'-P-O5'	-11.25	87.12	104.00
13	AD	12	DT	O3'-P-O5'	-11.25	87.12	104.00
30	C6	20	DT	O3'-P-O5'	-11.25	87.12	104.00
44	D9	11	DT	O3'-P-O5'	-11.25	87.12	104.00
62	F5	44	DT	O3'-P-O5'	-11.25	87.12	104.00
43	D8	11	DT	O3'-P-O5'	-11.25	87.12	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
60	F2	16	DT	O3'-P-O5'	-11.25	87.12	104.00
85	H6	17	DG	P-O3'-C3'	-11.25	103.32	120.20
98	I8	6	DT	O3'-P-O5'	-11.25	87.12	104.00
108	J7	3	DT	O3'-P-O5'	-11.25	87.12	104.00
175	PD	15	DT	O3'-P-O5'	-11.25	87.12	104.00
109	J8	23	DT	O3'-P-O5'	-11.25	87.12	104.00
122	KA	49	DT	O3'-P-O5'	-11.25	87.12	104.00
125	L1	22	DT	O3'-P-O5'	-11.25	87.12	104.00
160	O7	24	DT	O3'-P-O5'	-11.25	87.12	104.00
178	Q5	19	DT	O3'-P-O5'	-11.25	87.12	104.00
184	QD	8	DT	O3'-P-O5'	-11.25	87.12	104.00
184	QD	10	DT	O3'-P-O5'	-11.25	87.12	104.00
185	R2	2	DT	O3'-P-O5'	-11.25	87.12	104.00
216	U8	6	DT	O3'-P-O5'	-11.25	87.12	104.00
225	V8	16	DT	O3'-P-O5'	-11.25	87.12	104.00
222	V3	7	DT	O3'-P-O5'	-11.25	87.12	104.00
227	VA	28	DT	O3'-P-O5'	-11.25	87.12	104.00
228	VC	10	DT	O3'-P-O5'	-11.25	87.12	104.00
237	X7	10	DT	O3'-P-O5'	-11.25	87.12	104.00
1	A1	38	DT	O3'-P-O5'	-11.25	87.12	104.00
4	A4	27	DT	O3'-P-O5'	-11.25	87.12	104.00
5	A5	12	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	10	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	503	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	1877	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	2630	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	4786	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	6679	DT	O3'-P-O5'	-11.25	87.12	104.00
47	DD	22	DT	O3'-P-O5'	-11.25	87.12	104.00
202	SD	29	DT	O3'-P-O5'	-11.25	87.12	104.00
2	A2	16	DT	O3'-P-O5'	-11.25	87.13	104.00
7	A7	15	DG	P-O3'-C3'	-11.25	103.33	120.20
11	AB	30	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	162	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	656	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	1914	DG	P-O3'-C3'	-11.25	103.32	120.20
11	AB	2349	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	1169	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	1363	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	1463	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	2133	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	2396	DT	O3'-P-O5'	-11.25	87.13	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2470	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	2736	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	2891	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	3332	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	4031	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	4190	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	4366	DT	O3'-P-O5'	-11.25	87.12	104.00
23	BA	6	DT	O3'-P-O5'	-11.25	87.12	104.00
48	E1	22	DT	O3'-P-O5'	-11.25	87.12	104.00
159	O6	12	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	3343	DC	O3'-P-O5'	-11.25	87.13	104.00
11	AB	3366	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	3725	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	3820	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	3881	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	3979	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	4409	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	4875	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	6770	DT	O3'-P-O5'	-11.25	87.12	104.00
53	E7	6	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	5308	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	5749	DG	P-O3'-C3'	-11.25	103.33	120.20
40	D5	21	DT	O3'-P-O5'	-11.25	87.12	104.00
58	ED	29	DG	P-O3'-C3'	-11.25	103.32	120.20
79	GC	22	DT	O3'-P-O5'	-11.25	87.12	104.00
11	AB	6552	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	6710	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	7170	DT	O3'-P-O5'	-11.25	87.13	104.00
13	AD	23	DT	O3'-P-O5'	-11.25	87.13	104.00
13	AD	36	DT	O3'-P-O5'	-11.25	87.13	104.00
21	B8	4	DT	O3'-P-O5'	-11.25	87.12	104.00
41	D6	31	DT	O3'-P-O5'	-11.25	87.13	104.00
41	D6	38	DT	O3'-P-O5'	-11.25	87.13	104.00
46	DC	20	DG	P-O3'-C3'	-11.25	103.32	120.20
75	G7	12	DT	O3'-P-O5'	-11.25	87.13	104.00
98	I8	5	DT	O3'-P-O5'	-11.25	87.13	104.00
102	ID	10	DT	O3'-P-O5'	-11.25	87.13	104.00
102	ID	14	DT	O3'-P-O5'	-11.25	87.12	104.00
104	J2	38	DT	O3'-P-O5'	-11.25	87.13	104.00
117	K5	20	DC	O3'-P-O5'	-11.25	87.12	104.00
124	KD	10	DT	O3'-P-O5'	-11.25	87.13	104.00
138	M5	40	DT	O3'-P-O5'	-11.25	87.13	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
141	M8	12	DT	O3'-P-O5'	-11.25	87.12	104.00
152	N9	6	DT	O3'-P-O5'	-11.25	87.13	104.00
160	O7	22	DT	O3'-P-O5'	-11.25	87.13	104.00
174	PC	23	DG	P-O3'-C3'	-11.25	103.33	120.20
177	Q3	13	DT	O3'-P-O5'	-11.25	87.13	104.00
181	Q9	9	DT	O3'-P-O5'	-11.25	87.12	104.00
181	Q9	34	DT	O3'-P-O5'	-11.25	87.12	104.00
194	S2	27	DT	O3'-P-O5'	-11.25	87.13	104.00
198	S8	43	DT	O3'-P-O5'	-11.25	87.13	104.00
208	T9	10	DT	O3'-P-O5'	-11.25	87.12	104.00
208	T9	19	DT	O3'-P-O5'	-11.25	87.13	104.00
223	V5	33	DT	O3'-P-O5'	-11.25	87.12	104.00
226	V9	9	DT	O3'-P-O5'	-11.25	87.12	104.00
238	X9	1	DC	O3'-P-O5'	-11.25	87.13	104.00
238	X9	40	DT	O3'-P-O5'	-11.25	87.13	104.00
4	A4	20	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	65	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	283	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	591	DC	O3'-P-O5'	-11.25	87.13	104.00
11	AB	798	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	1106	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	1744	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	2116	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	2132	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	2302	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	3557	DT	O3'-P-O5'	-11.25	87.13	104.00
120	K8	14	DC	O3'-P-O5'	-11.25	87.13	104.00
192	RC	17	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	395	DC	O3'-P-O5'	-11.25	87.13	104.00
11	AB	464	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	646	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	770	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	1490	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	1653	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	2222	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	2536	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	2542	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	2547	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	2738	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	3095	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	2767	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	2898	DT	O3'-P-O5'	-11.25	87.13	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3241	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	5616	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	6026	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	6341	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	6467	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	6989	DT	O3'-P-O5'	-11.25	87.13	104.00
21	B8	13	DT	O3'-P-O5'	-11.25	87.13	104.00
64	F7	27	DT	O3'-P-O5'	-11.25	87.13	104.00
67	FA	25	DT	O3'-P-O5'	-11.25	87.13	104.00
69	FD	10	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	3978	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	4984	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	5141	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	5269	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	5766	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	5768	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	5774	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	6758	DT	O3'-P-O5'	-11.25	87.13	104.00
109	J8	34	DG	P-O3'-C3'	-11.25	103.33	120.20
11	AB	6079	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	6221	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	6450	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	6761	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	6924	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	6986	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	7041	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	7117	DC	O3'-P-O5'	-11.25	87.13	104.00
29	C5	30	DT	O3'-P-O5'	-11.25	87.13	104.00
11	AB	7134	DT	O3'-P-O5'	-11.25	87.13	104.00
26	C1	23	DT	O3'-P-O5'	-11.25	87.13	104.00
49	E2	21	DT	O3'-P-O5'	-11.25	87.13	104.00
54	E8	12	DT	O3'-P-O5'	-11.25	87.13	104.00
54	E8	22	DT	O3'-P-O5'	-11.25	87.13	104.00
91	HD	13	DT	O3'-P-O5'	-11.25	87.13	104.00
95	I5	5	DT	O3'-P-O5'	-11.25	87.13	104.00
96	I6	1	DT	O3'-P-O5'	-11.25	87.13	104.00
103	J1	27	DT	O3'-P-O5'	-11.25	87.13	104.00
108	J7	44	DT	O3'-P-O5'	-11.25	87.13	104.00
118	K6	20	DT	O3'-P-O5'	-11.25	87.13	104.00
122	KA	37	DT	O3'-P-O5'	-11.25	87.13	104.00
232	W7	26	DT	O3'-P-O5'	-11.25	87.13	104.00
138	M5	36	DC	O3'-P-O5'	-11.25	87.13	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
145	MD	35	DT	O3'-P-O5'	-11.25	87.13	104.00
163	OA	10	DC	O3'-P-O5'	-11.25	87.13	104.00
154	NC	12	DT	O3'-P-O5'	-11.25	87.13	104.00
167	P3	14	DT	O3'-P-O5'	-11.25	87.13	104.00
184	QD	11	DT	O3'-P-O5'	-11.25	87.13	104.00
189	R8	6	DT	O3'-P-O5'	-11.25	87.13	104.00
189	R8	17	DT	O3'-P-O5'	-11.25	87.13	104.00
194	S2	9	DT	O3'-P-O5'	-11.25	87.13	104.00
206	T7	23	DG	P-O3'-C3'	-11.25	103.33	120.20
214	U5	11	DT	O3'-P-O5'	-11.25	87.13	104.00
215	U7	18	DC	O3'-P-O5'	-11.25	87.13	104.00
221	V2	8	DT	O3'-P-O5'	-11.25	87.13	104.00
224	V7	18	DT	O3'-P-O5'	-11.25	87.13	104.00
233	W8	6	DT	O3'-P-O5'	-11.25	87.13	104.00
2	A2	18	DT	O3'-P-O5'	-11.24	87.13	104.00
5	A5	17	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	323	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	1838	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	1878	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	2128	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	2890	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	3297	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	5829	DT	O3'-P-O5'	-11.24	87.13	104.00
31	C7	4	DT	O3'-P-O5'	-11.24	87.13	104.00
40	D5	9	DT	O3'-P-O5'	-11.24	87.13	104.00
55	E9	33	DT	O3'-P-O5'	-11.24	87.13	104.00
126	L2	53	DT	O3'-P-O5'	-11.24	87.13	104.00
137	M3	22	DT	O3'-P-O5'	-11.24	87.13	104.00
142	M9	14	DT	O3'-P-O5'	-11.24	87.13	104.00
2	A2	27	DT	O3'-P-O5'	-11.24	87.14	104.00
5	A5	11	DT	O3'-P-O5'	-11.24	87.14	104.00
5	A5	21	DT	O3'-P-O5'	-11.24	87.14	104.00
7	A7	39	DT	O3'-P-O5'	-11.24	87.14	104.00
9	A9	16	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	74	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	160	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	1482	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	3362	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	5180	DT	O3'-P-O5'	-11.24	87.13	104.00
135	LD	12	DC	O3'-P-O5'	-11.24	87.13	104.00
166	P2	26	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	103	DT	O3'-P-O5'	-11.24	87.14	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	531	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1357	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1476	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1564	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1649	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1775	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	2126	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	2327	DC	O3'-P-O5'	-11.24	87.13	104.00
11	AB	2720	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	2851	DG	P-O3'-C3'	-11.24	103.33	120.20
11	AB	4169	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	5843	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	6461	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	2140	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3819	DT	O3'-P-O5'	-11.24	87.14	104.00
60	F2	8	DT	O3'-P-O5'	-11.24	87.13	104.00
91	HD	7	DT	O3'-P-O5'	-11.24	87.13	104.00
181	Q9	23	DT	O3'-P-O5'	-11.24	87.13	104.00
214	U5	31	DT	O3'-P-O5'	-11.24	87.13	104.00
236	X5	11	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	2273	DG	P-O3'-C3'	-11.24	103.34	120.20
11	AB	2395	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	2575	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	2648	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3351	DC	O3'-P-O5'	-11.24	87.13	104.00
11	AB	5838	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	2660	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	2918	DG	P-O3'-C3'	-11.24	103.34	120.20
11	AB	2938	DC	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3533	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3596	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3783	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3798	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	4002	DC	O3'-P-O5'	-11.24	87.14	104.00
11	AB	6456	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	6509	DT	O3'-P-O5'	-11.24	87.14	104.00
141	M8	28	DT	O3'-P-O5'	-11.24	87.13	104.00
181	Q9	8	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	4511	DC	O3'-P-O5'	-11.24	87.14	104.00
11	AB	4639	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	4725	DG	P-O3'-C3'	-11.24	103.34	120.20
11	AB	5160	DC	O3'-P-O5'	-11.24	87.14	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5266	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	6280	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	5414	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	5848	DG	P-O3'-C3'	-11.24	103.33	120.20
11	AB	6282	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	6374	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	6522	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	7158	DT	O3'-P-O5'	-11.24	87.13	104.00
53	E7	21	DT	O3'-P-O5'	-11.24	87.13	104.00
93	I2	11	DT	O3'-P-O5'	-11.24	87.13	104.00
11	AB	6380	DC	O3'-P-O5'	-11.24	87.14	104.00
11	AB	6440	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	7100	DC	O3'-P-O5'	-11.24	87.13	104.00
22	B9	42	DC	O3'-P-O5'	-11.24	87.13	104.00
48	E1	12	DG	P-O3'-C3'	-11.24	103.33	120.20
67	FA	20	DT	O3'-P-O5'	-11.24	87.13	104.00
126	L2	22	DT	O3'-P-O5'	-11.24	87.13	104.00
150	N7	1	DT	O3'-P-O5'	-11.24	87.13	104.00
13	AD	35	DT	O3'-P-O5'	-11.24	87.14	104.00
20	B7	6	DT	O3'-P-O5'	-11.24	87.14	104.00
110	J9	8	DT	O3'-P-O5'	-11.24	87.14	104.00
194	S2	8	DT	O3'-P-O5'	-11.24	87.13	104.00
28	C3	6	DC	O3'-P-O5'	-11.24	87.14	104.00
37	D1	2	DT	O3'-P-O5'	-11.24	87.14	104.00
74	G6	19	DT	O3'-P-O5'	-11.24	87.14	104.00
147	N3	32	DT	O3'-P-O5'	-11.24	87.13	104.00
159	O6	14	DT	O3'-P-O5'	-11.24	87.14	104.00
75	G7	27	DC	O3'-P-O5'	-11.24	87.14	104.00
87	H8	7	DT	O3'-P-O5'	-11.24	87.14	104.00
89	HA	18	DT	O3'-P-O5'	-11.24	87.14	104.00
110	J9	16	DC	O3'-P-O5'	-11.24	87.14	104.00
122	KA	36	DT	O3'-P-O5'	-11.24	87.14	104.00
129	L6	14	DT	O3'-P-O5'	-11.24	87.13	104.00
164	OC	18	DT	O3'-P-O5'	-11.24	87.13	104.00
211	TD	18	DT	O3'-P-O5'	-11.24	87.13	104.00
211	TD	19	DT	O3'-P-O5'	-11.24	87.13	104.00
234	W9	2	DT	O3'-P-O5'	-11.24	87.13	104.00
122	KA	50	DT	O3'-P-O5'	-11.24	87.14	104.00
130	L7	46	DT	O3'-P-O5'	-11.24	87.14	104.00
161	O8	46	DT	O3'-P-O5'	-11.24	87.14	104.00
167	P3	9	DG	P-O3'-C3'	-11.24	103.34	120.20
173	PA	19	DT	O3'-P-O5'	-11.24	87.14	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
179	Q7	14	DT	O3'-P-O5'	-11.24	87.14	104.00
181	Q9	35	DT	O3'-P-O5'	-11.24	87.14	104.00
181	Q9	37	DC	O3'-P-O5'	-11.24	87.14	104.00
184	QD	29	DT	O3'-P-O5'	-11.24	87.14	104.00
193	RD	17	DT	O3'-P-O5'	-11.24	87.14	104.00
194	S2	26	DT	O3'-P-O5'	-11.24	87.14	104.00
200	SA	18	DT	O3'-P-O5'	-11.24	87.14	104.00
218	UA	1	DT	O3'-P-O5'	-11.24	87.13	104.00
1	A1	18	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	108	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	109	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	129	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	133	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	570	DC	O3'-P-O5'	-11.24	87.14	104.00
11	AB	705	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	783	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1172	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1594	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1741	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1911	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	2148	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3261	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3639	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	4392	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	5826	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	6205	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	6333	DT	O3'-P-O5'	-11.24	87.14	104.00
41	D6	3	DG	P-O3'-C3'	-11.24	103.34	120.20
11	AB	1060	DG	P-O3'-C3'	-11.24	103.34	120.20
11	AB	1272	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1462	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	2221	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	2323	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3426	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	2402	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3367	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3535	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3816	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3998	DG	P-O3'-C3'	-11.24	103.34	120.20
11	AB	4076	DG	P-O3'-C3'	-11.24	103.34	120.20
11	AB	4160	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	4429	DC	O3'-P-O5'	-11.24	87.14	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4457	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	5747	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	5894	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	4591	DC	O3'-P-O5'	-11.24	87.14	104.00
11	AB	4602	DG	P-O3'-C3'	-11.24	103.34	120.20
11	AB	4914	DT	O3'-P-O5'	-11.24	87.14	104.00
85	H6	2	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	5126	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	5184	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	5206	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	5490	DC	O3'-P-O5'	-11.24	87.14	104.00
11	AB	5500	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	5966	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	6036	DT	O3'-P-O5'	-11.24	87.14	104.00
46	DC	17	DC	O3'-P-O5'	-11.24	87.14	104.00
95	I5	23	DT	O3'-P-O5'	-11.24	87.14	104.00
96	I6	7	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	6463	DG	P-O3'-C3'	-11.24	103.34	120.20
11	AB	6915	DC	O3'-P-O5'	-11.24	87.14	104.00
17	B4	6	DT	O3'-P-O5'	-11.24	87.14	104.00
44	D9	8	DT	O3'-P-O5'	-11.24	87.14	104.00
60	F2	9	DT	O3'-P-O5'	-11.24	87.14	104.00
62	F5	40	DT	O3'-P-O5'	-11.24	87.14	104.00
63	F6	18	DT	O3'-P-O5'	-11.24	87.14	104.00
69	FD	27	DT	O3'-P-O5'	-11.24	87.14	104.00
94	I3	25	DT	O3'-P-O5'	-11.24	87.14	104.00
94	I3	41	DT	O3'-P-O5'	-11.24	87.14	104.00
98	I8	12	DC	O3'-P-O5'	-11.24	87.14	104.00
100	IA	14	DT	O3'-P-O5'	-11.24	87.14	104.00
102	ID	15	DT	O3'-P-O5'	-11.24	87.14	104.00
104	J2	3	DG	P-O3'-C3'	-11.24	103.34	120.20
127	L3	6	DT	O3'-P-O5'	-11.24	87.14	104.00
106	J5	31	DC	O3'-P-O5'	-11.24	87.14	104.00
115	K2	33	DT	O3'-P-O5'	-11.24	87.14	104.00
127	L3	9	DT	O3'-P-O5'	-11.24	87.14	104.00
139	M6	1	DC	O3'-P-O5'	-11.24	87.14	104.00
233	W8	23	DT	O3'-P-O5'	-11.24	87.14	104.00
141	M8	17	DC	O3'-P-O5'	-11.24	87.14	104.00
142	M9	22	DT	O3'-P-O5'	-11.24	87.14	104.00
165	OD	4	DT	O3'-P-O5'	-11.24	87.14	104.00
165	OD	57	DT	O3'-P-O5'	-11.24	87.14	104.00
171	P8	11	DC	O3'-P-O5'	-11.24	87.14	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
204	T3	11	DT	O3'-P-O5'	-11.24	87.14	104.00
207	T8	10	DT	O3'-P-O5'	-11.24	87.14	104.00
210	TC	18	DT	O3'-P-O5'	-11.24	87.14	104.00
213	U3	19	DG	P-O3'-C3'	-11.24	103.34	120.20
229	VD	20	DT	O3'-P-O5'	-11.24	87.14	104.00
238	X9	27	DT	O3'-P-O5'	-11.24	87.14	104.00
3	A3	8	DC	O3'-P-O5'	-11.24	87.14	104.00
6	A6	24	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	120	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	142	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1486	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1885	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	2226	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	2227	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3566	DG	P-O3'-C3'	-11.24	103.34	120.20
9	A9	14	DT	O3'-P-O5'	-11.24	87.15	104.00
11	AB	192	DT	O3'-P-O5'	-11.24	87.15	104.00
11	AB	396	DC	O3'-P-O5'	-11.24	87.14	104.00
11	AB	415	DG	P-O3'-C3'	-11.24	103.34	120.20
11	AB	2046	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	2757	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	2874	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	6771	DT	O3'-P-O5'	-11.24	87.14	104.00
156	O2	43	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	442	DG	P-O3'-C3'	-11.24	103.35	120.20
11	AB	1001	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1123	DC	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1258	DT	O3'-P-O5'	-11.24	87.15	104.00
11	AB	1369	DC	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1422	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1451	DT	O3'-P-O5'	-11.24	87.15	104.00
11	AB	1620	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1763	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1941	DC	O3'-P-O5'	-11.24	87.14	104.00
11	AB	1993	DC	O3'-P-O5'	-11.24	87.15	104.00
11	AB	2035	DG	P-O3'-C3'	-11.24	103.34	120.20
11	AB	2559	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	2069	DT	O3'-P-O5'	-11.24	87.15	104.00
11	AB	2565	DT	O3'-P-O5'	-11.24	87.15	104.00
11	AB	2748	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	2783	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3041	DT	O3'-P-O5'	-11.24	87.14	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4640	DT	O3'-P-O5'	-11.24	87.14	104.00
51	E5	32	DT	O3'-P-O5'	-11.24	87.14	104.00
97	I7	21	DC	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3204	DT	O3'-P-O5'	-11.24	87.15	104.00
11	AB	3404	DT	O3'-P-O5'	-11.24	87.15	104.00
11	AB	3531	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3549	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3769	DG	P-O3'-C3'	-11.24	103.34	120.20
11	AB	3801	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	4237	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	4618	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3786	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	3867	DT	O3'-P-O5'	-11.24	87.15	104.00
11	AB	4143	DC	O3'-P-O5'	-11.24	87.14	104.00
11	AB	5558	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	5745	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	4156	DT	O3'-P-O5'	-11.24	87.15	104.00
11	AB	5764	DG	P-O3'-C3'	-11.24	103.35	120.20
11	AB	5834	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	6377	DC	O3'-P-O5'	-11.24	87.14	104.00
11	AB	6512	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	6524	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	6971	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	6735	DC	O3'-P-O5'	-11.24	87.15	104.00
11	AB	6757	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	6847	DC	O3'-P-O5'	-11.24	87.14	104.00
26	C1	5	DT	O3'-P-O5'	-11.24	87.14	104.00
17	B4	7	DT	O3'-P-O5'	-11.24	87.14	104.00
29	C5	24	DT	O3'-P-O5'	-11.24	87.14	104.00
31	C7	26	DT	O3'-P-O5'	-11.24	87.14	104.00
47	DD	41	DG	P-O3'-C3'	-11.24	103.34	120.20
49	E2	38	DC	O3'-P-O5'	-11.24	87.14	104.00
50	E3	7	DT	O3'-P-O5'	-11.24	87.14	104.00
54	E8	34	DC	O3'-P-O5'	-11.24	87.15	104.00
74	G6	14	DT	O3'-P-O5'	-11.24	87.14	104.00
83	H3	15	DC	O3'-P-O5'	-11.24	87.14	104.00
96	I6	8	DT	O3'-P-O5'	-11.24	87.14	104.00
168	P5	3	DG	P-O3'-C3'	-11.24	103.34	120.20
226	V9	33	DT	O3'-P-O5'	-11.24	87.14	104.00
113	JD	16	DT	O3'-P-O5'	-11.24	87.15	104.00
115	K2	32	DT	O3'-P-O5'	-11.24	87.14	104.00
120	K8	12	DT	O3'-P-O5'	-11.24	87.14	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
130	L7	4	DT	O3'-P-O5'	-11.24	87.14	104.00
145	MD	17	DT	O3'-P-O5'	-11.24	87.14	104.00
146	N2	12	DT	O3'-P-O5'	-11.24	87.15	104.00
152	N9	13	DT	O3'-P-O5'	-11.24	87.15	104.00
154	NC	30	DG	P-O3'-C3'	-11.24	103.35	120.20
178	Q5	20	DT	O3'-P-O5'	-11.24	87.14	104.00
182	QA	27	DT	O3'-P-O5'	-11.24	87.14	104.00
196	S5	31	DT	O3'-P-O5'	-11.24	87.14	104.00
198	S8	41	DT	O3'-P-O5'	-11.24	87.15	104.00
202	SD	28	DT	O3'-P-O5'	-11.24	87.14	104.00
214	U5	5	DC	O3'-P-O5'	-11.24	87.15	104.00
217	U9	13	DT	O3'-P-O5'	-11.24	87.14	104.00
231	W5	26	DT	O3'-P-O5'	-11.24	87.14	104.00
11	AB	803	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	875	DT	O3'-P-O5'	-11.23	87.15	104.00
172	P9	5	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	785	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	1444	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	1446	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	1663	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	1753	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	2885	DG	P-O3'-C3'	-11.23	103.35	120.20
79	GC	24	DC	O3'-P-O5'	-11.23	87.15	104.00
11	AB	1783	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	2039	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	2247	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	2773	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	2965	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	3091	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	3779	DG	P-O3'-C3'	-11.23	103.35	120.20
11	AB	4080	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	4600	DG	P-O3'-C3'	-11.23	103.35	120.20
71	G2	14	DT	O3'-P-O5'	-11.23	87.15	104.00
158	O5	44	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	2299	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	2369	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	2384	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	2625	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	2634	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	3248	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	3963	DC	O3'-P-O5'	-11.23	87.15	104.00
11	AB	3986	DG	P-O3'-C3'	-11.23	103.35	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4063	DG	P-O3'-C3'	-11.23	103.35	120.20
11	AB	4363	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	4496	DG	P-O3'-C3'	-11.23	103.35	120.20
11	AB	4572	DG	P-O3'-C3'	-11.23	103.35	120.20
11	AB	4714	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	4741	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	5223	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	5271	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	5342	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	5391	DG	P-O3'-C3'	-11.23	103.35	120.20
11	AB	5645	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	5673	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	5897	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	5904	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	6349	DG	P-O3'-C3'	-11.23	103.35	120.20
16	B3	20	DT	O3'-P-O5'	-11.23	87.15	104.00
24	BC	39	DG	P-O3'-C3'	-11.23	103.35	120.20
57	EC	6	DT	O3'-P-O5'	-11.23	87.15	104.00
93	I2	33	DT	O3'-P-O5'	-11.23	87.15	104.00
143	MA	46	DC	O3'-P-O5'	-11.23	87.15	104.00
160	O7	9	DT	O3'-P-O5'	-11.23	87.15	104.00
171	P8	24	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	6776	DT	O3'-P-O5'	-11.23	87.15	104.00
26	C1	21	DT	O3'-P-O5'	-11.23	87.15	104.00
172	P9	6	DT	O3'-P-O5'	-11.23	87.15	104.00
32	C8	50	DT	O3'-P-O5'	-11.23	87.15	104.00
39	D3	17	DT	O3'-P-O5'	-11.23	87.15	104.00
44	D9	18	DG	P-O3'-C3'	-11.23	103.35	120.20
62	F5	29	DT	O3'-P-O5'	-11.23	87.15	104.00
85	H6	19	DT	O3'-P-O5'	-11.23	87.15	104.00
74	G6	12	DC	O3'-P-O5'	-11.23	87.15	104.00
81	H1	18	DT	O3'-P-O5'	-11.23	87.15	104.00
81	H1	21	DT	O3'-P-O5'	-11.23	87.15	104.00
82	H2	26	DT	O3'-P-O5'	-11.23	87.15	104.00
94	I3	53	DT	O3'-P-O5'	-11.23	87.15	104.00
96	I6	13	DT	O3'-P-O5'	-11.23	87.15	104.00
112	JC	5	DC	O3'-P-O5'	-11.23	87.15	104.00
113	JD	24	DC	O3'-P-O5'	-11.23	87.15	104.00
211	TD	14	DT	O3'-P-O5'	-11.23	87.15	104.00
115	K2	22	DT	O3'-P-O5'	-11.23	87.15	104.00
116	K3	11	DT	O3'-P-O5'	-11.23	87.15	104.00
116	K3	20	DC	O3'-P-O5'	-11.23	87.15	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
118	K6	10	DC	O3'-P-O5'	-11.23	87.15	104.00
118	K6	21	DT	O3'-P-O5'	-11.23	87.15	104.00
121	K9	22	DT	O3'-P-O5'	-11.23	87.15	104.00
135	LD	10	DT	O3'-P-O5'	-11.23	87.15	104.00
136	M2	3	DT	O3'-P-O5'	-11.23	87.15	104.00
136	M2	13	DT	O3'-P-O5'	-11.23	87.15	104.00
151	N8	6	DC	O3'-P-O5'	-11.23	87.15	104.00
195	S3	2	DG	P-O3'-C3'	-11.23	103.35	120.20
152	N9	21	DT	O3'-P-O5'	-11.23	87.15	104.00
156	O2	34	DT	O3'-P-O5'	-11.23	87.15	104.00
167	P3	12	DT	O3'-P-O5'	-11.23	87.15	104.00
176	Q2	12	DT	O3'-P-O5'	-11.23	87.15	104.00
193	RD	21	DT	O3'-P-O5'	-11.23	87.15	104.00
214	U5	13	DT	O3'-P-O5'	-11.23	87.15	104.00
219	UC	16	DT	O3'-P-O5'	-11.23	87.15	104.00
232	W7	10	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	1042	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	6112	DC	O3'-P-O5'	-11.23	87.15	104.00
19	B6	18	DT	O3'-P-O5'	-11.23	87.15	104.00
62	F5	16	DC	O3'-P-O5'	-11.23	87.15	104.00
80	GD	21	DG	P-O3'-C3'	-11.23	103.35	120.20
100	IA	12	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	121	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	186	DC	O3'-P-O5'	-11.23	87.16	104.00
11	AB	338	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	556	DC	O3'-P-O5'	-11.23	87.15	104.00
11	AB	1111	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	1355	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	2443	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	5132	DG	P-O3'-C3'	-11.23	103.35	120.20
127	L3	13	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	596	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	635	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	1133	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	1174	DC	O3'-P-O5'	-11.23	87.16	104.00
11	AB	1244	DC	O3'-P-O5'	-11.23	87.15	104.00
11	AB	1354	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	1421	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	1434	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	1452	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	1454	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	1455	DT	O3'-P-O5'	-11.23	87.15	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2060	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	2322	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	3838	DG	P-O3'-C3'	-11.23	103.35	120.20
11	AB	5651	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	6220	DT	O3'-P-O5'	-11.23	87.15	104.00
34	CA	1	DT	O3'-P-O5'	-11.23	87.15	104.00
204	T3	36	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	2153	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	2244	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	2274	DC	O3'-P-O5'	-11.23	87.16	104.00
11	AB	2307	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	2659	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	2756	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	2762	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	2811	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	2952	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	3045	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	5002	DC	O3'-P-O5'	-11.23	87.15	104.00
11	AB	3070	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	3389	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	5604	DC	O3'-P-O5'	-11.23	87.15	104.00
42	D7	20	DC	O3'-P-O5'	-11.23	87.15	104.00
11	AB	3584	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	4368	DC	O3'-P-O5'	-11.23	87.16	104.00
11	AB	4737	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	5341	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	5770	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	5775	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	6451	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	6850	DT	O3'-P-O5'	-11.23	87.15	104.00
11	AB	7164	DC	O3'-P-O5'	-11.23	87.15	104.00
11	AB	6859	DC	O3'-P-O5'	-11.23	87.15	104.00
11	AB	7221	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	7236	DC	O3'-P-O5'	-11.23	87.15	104.00
21	B8	5	DT	O3'-P-O5'	-11.23	87.15	104.00
21	B8	24	DT	O3'-P-O5'	-11.23	87.15	104.00
26	C1	7	DT	O3'-P-O5'	-11.23	87.16	104.00
43	D8	1	DT	O3'-P-O5'	-11.23	87.15	104.00
48	E1	17	DC	O3'-P-O5'	-11.23	87.15	104.00
132	L9	3	DT	O3'-P-O5'	-11.23	87.15	104.00
47	DD	38	DG	P-O3'-C3'	-11.23	103.36	120.20
48	E1	27	DT	O3'-P-O5'	-11.23	87.15	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	E9	19	DC	O3'-P-O5'	-11.23	87.16	104.00
69	FD	33	DT	O3'-P-O5'	-11.23	87.15	104.00
82	H2	43	DG	P-O3'-C3'	-11.23	103.35	120.20
83	H3	37	DG	P-O3'-C3'	-11.23	103.35	120.20
112	JC	4	DG	P-O3'-C3'	-11.23	103.36	120.20
113	JD	34	DT	O3'-P-O5'	-11.23	87.15	104.00
156	O2	30	DC	O3'-P-O5'	-11.23	87.15	104.00
189	R8	37	DC	O3'-P-O5'	-11.23	87.15	104.00
211	TD	10	DG	P-O3'-C3'	-11.23	103.35	120.20
119	K7	3	DG	P-O3'-C3'	-11.23	103.36	120.20
124	KD	21	DT	O3'-P-O5'	-11.23	87.16	104.00
126	L2	26	DC	O3'-P-O5'	-11.23	87.15	104.00
143	MA	31	DC	O3'-P-O5'	-11.23	87.16	104.00
152	N9	18	DG	P-O3'-C3'	-11.23	103.35	120.20
158	O5	36	DC	O3'-P-O5'	-11.23	87.15	104.00
161	O8	53	DG	P-O3'-C3'	-11.23	103.36	120.20
166	P2	28	DG	P-O3'-C3'	-11.23	103.35	120.20
168	P5	4	DC	O3'-P-O5'	-11.23	87.16	104.00
184	QD	27	DT	O3'-P-O5'	-11.23	87.15	104.00
191	RA	10	DC	O3'-P-O5'	-11.23	87.15	104.00
192	RC	18	DT	O3'-P-O5'	-11.23	87.15	104.00
211	TD	33	DT	O3'-P-O5'	-11.23	87.16	104.00
217	U9	5	DT	O3'-P-O5'	-11.23	87.15	104.00
227	VA	13	DT	O3'-P-O5'	-11.23	87.15	104.00
230	W3	2	DT	O3'-P-O5'	-11.23	87.16	104.00
10	AA	11	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	536	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	548	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	1085	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	1950	DC	O3'-P-O5'	-11.23	87.16	104.00
11	AB	2583	DC	O3'-P-O5'	-11.23	87.16	104.00
11	AB	4033	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	4048	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	5984	DC	O3'-P-O5'	-11.23	87.16	104.00
30	C6	4	DT	O3'-P-O5'	-11.23	87.16	104.00
33	C9	21	DT	O3'-P-O5'	-11.23	87.16	104.00
77	G9	11	DC	O3'-P-O5'	-11.23	87.16	104.00
80	GD	17	DT	O3'-P-O5'	-11.23	87.16	104.00
6	A6	25	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	489	DC	O3'-P-O5'	-11.23	87.16	104.00
11	AB	542	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	913	DG	P-O3'-C3'	-11.23	103.36	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1161	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	1927	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	2376	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	2460	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	2933	DT	O3'-P-O5'	-11.23	87.16	104.00
20	B7	17	DC	O3'-P-O5'	-11.23	87.16	104.00
35	CC	10	DC	O3'-P-O5'	-11.23	87.16	104.00
45	DA	15	DC	O3'-P-O5'	-11.23	87.16	104.00
125	L1	55	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	981	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	993	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	1271	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	1766	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	2878	DC	O3'-P-O5'	-11.23	87.16	104.00
11	AB	3449	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	3585	DC	O3'-P-O5'	-11.23	87.16	104.00
11	AB	3669	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	4055	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	4188	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	4463	DC	O3'-P-O5'	-11.23	87.16	104.00
11	AB	4707	DC	O3'-P-O5'	-11.23	87.16	104.00
11	AB	4784	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	5347	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	5483	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	5504	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	6274	DT	O3'-P-O5'	-11.23	87.16	104.00
56	EA	6	DT	O3'-P-O5'	-11.23	87.16	104.00
191	RA	12	DC	O3'-P-O5'	-11.23	87.16	104.00
11	AB	1535	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	1778	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	2106	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	2231	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	2367	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	2399	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	2722	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	3036	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	4249	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	4491	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	6266	DT	O3'-P-O5'	-11.23	87.16	104.00
35	CC	11	DC	O3'-P-O5'	-11.23	87.16	104.00
84	H5	20	DG	P-O3'-C3'	-11.23	103.36	120.20
94	I3	3	DT	O3'-P-O5'	-11.23	87.16	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3072	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	3090	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	3258	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	3461	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	3663	DC	O3'-P-O5'	-11.23	87.16	104.00
11	AB	3873	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	4345	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	4596	DC	O3'-P-O5'	-11.23	87.16	104.00
11	AB	6635	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	4699	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	4713	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	4826	DC	O3'-P-O5'	-11.23	87.16	104.00
11	AB	4947	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	5360	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	6252	DC	O3'-P-O5'	-11.23	87.16	104.00
11	AB	6292	DT	O3'-P-O5'	-11.23	87.16	104.00
52	E6	34	DC	O3'-P-O5'	-11.23	87.16	104.00
11	AB	5446	DC	O3'-P-O5'	-11.23	87.16	104.00
11	AB	5674	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	6375	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	6474	DG	P-O3'-C3'	-11.23	103.36	120.20
19	B6	4	DT	O3'-P-O5'	-11.23	87.16	104.00
32	C8	28	DG	P-O3'-C3'	-11.23	103.36	120.20
39	D3	32	DG	P-O3'-C3'	-11.23	103.36	120.20
39	D3	33	DC	O3'-P-O5'	-11.23	87.16	104.00
125	L1	23	DT	O3'-P-O5'	-11.23	87.16	104.00
161	O8	47	DT	O3'-P-O5'	-11.23	87.16	104.00
11	AB	5756	DG	P-O3'-C3'	-11.23	103.36	120.20
11	AB	6700	DT	O3'-P-O5'	-11.23	87.16	104.00
20	B7	9	DG	P-O3'-C3'	-11.23	103.36	120.20
34	CA	6	DT	O3'-P-O5'	-11.23	87.16	104.00
35	CC	25	DT	O3'-P-O5'	-11.23	87.16	104.00
93	I2	27	DT	O3'-P-O5'	-11.23	87.16	104.00
110	J9	18	DG	P-O3'-C3'	-11.23	103.36	120.20
147	N3	29	DC	O3'-P-O5'	-11.23	87.16	104.00
37	D1	33	DC	O3'-P-O5'	-11.23	87.16	104.00
43	D8	20	DC	O3'-P-O5'	-11.23	87.16	104.00
43	D8	26	DC	O3'-P-O5'	-11.23	87.16	104.00
58	ED	5	DT	O3'-P-O5'	-11.23	87.16	104.00
58	ED	15	DT	O3'-P-O5'	-11.23	87.16	104.00
69	FD	44	DG	P-O3'-C3'	-11.23	103.36	120.20
74	G6	16	DT	O3'-P-O5'	-11.23	87.16	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
82	H2	45	DT	O3'-P-O5'	-11.23	87.16	104.00
141	M8	25	DT	O3'-P-O5'	-11.23	87.16	104.00
166	P2	17	DT	O3'-P-O5'	-11.23	87.16	104.00
96	I6	6	DT	O3'-P-O5'	-11.23	87.16	104.00
103	J1	13	DG	P-O3'-C3'	-11.23	103.36	120.20
109	J8	22	DT	O3'-P-O5'	-11.23	87.16	104.00
110	J9	15	DG	P-O3'-C3'	-11.23	103.36	120.20
113	JD	15	DT	O3'-P-O5'	-11.23	87.16	104.00
117	K5	3	DG	P-O3'-C3'	-11.23	103.36	120.20
125	L1	12	DG	P-O3'-C3'	-11.23	103.36	120.20
143	MA	11	DG	P-O3'-C3'	-11.23	103.36	120.20
149	N6	46	DC	O3'-P-O5'	-11.23	87.16	104.00
150	N7	9	DC	O3'-P-O5'	-11.23	87.16	104.00
150	N7	10	DC	O3'-P-O5'	-11.23	87.16	104.00
152	N9	9	DT	O3'-P-O5'	-11.23	87.16	104.00
152	N9	20	DT	O3'-P-O5'	-11.23	87.16	104.00
165	OD	53	DT	O3'-P-O5'	-11.23	87.16	104.00
166	P2	9	DG	P-O3'-C3'	-11.23	103.36	120.20
166	P2	29	DC	O3'-P-O5'	-11.23	87.16	104.00
171	P8	22	DT	O3'-P-O5'	-11.23	87.16	104.00
173	PA	24	DT	O3'-P-O5'	-11.23	87.16	104.00
178	Q5	25	DT	O3'-P-O5'	-11.23	87.16	104.00
179	Q7	10	DT	O3'-P-O5'	-11.23	87.16	104.00
181	Q9	38	DC	O3'-P-O5'	-11.23	87.16	104.00
189	R8	28	DG	P-O3'-C3'	-11.23	103.36	120.20
192	RC	11	DG	P-O3'-C3'	-11.23	103.36	120.20
237	X7	12	DC	O3'-P-O5'	-11.23	87.16	104.00
2	A2	28	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	5036	DG	P-O3'-C3'	-11.22	103.36	120.20
2	A2	4	DC	O3'-P-O5'	-11.22	87.17	104.00
8	A8	12	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	174	DC	O3'-P-O5'	-11.22	87.16	104.00
11	AB	1606	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	1745	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	290	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	683	DC	O3'-P-O5'	-11.22	87.16	104.00
11	AB	802	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	1018	DC	O3'-P-O5'	-11.22	87.16	104.00
11	AB	1595	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	1650	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	1811	DG	P-O3'-C3'	-11.22	103.36	120.20
11	AB	1949	DG	P-O3'-C3'	-11.22	103.36	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2137	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	2293	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	2579	DC	O3'-P-O5'	-11.22	87.16	104.00
11	AB	3166	DC	O3'-P-O5'	-11.22	87.16	104.00
11	AB	3255	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	3497	DC	O3'-P-O5'	-11.22	87.16	104.00
11	AB	3514	DG	P-O3'-C3'	-11.22	103.36	120.20
11	AB	3642	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	3740	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	3980	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	4165	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	5548	DG	P-O3'-C3'	-11.22	103.36	120.20
11	AB	3990	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4025	DG	P-O3'-C3'	-11.22	103.36	120.20
11	AB	4902	DG	P-O3'-C3'	-11.22	103.36	120.20
11	AB	7231	DG	P-O3'-C3'	-11.22	103.36	120.20
11	AB	4304	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4905	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	5268	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	5362	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	5495	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	5563	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	6193	DC	O3'-P-O5'	-11.22	87.16	104.00
30	C6	31	DG	P-O3'-C3'	-11.22	103.36	120.20
73	G5	17	DT	O3'-P-O5'	-11.22	87.16	104.00
97	I7	15	DT	O3'-P-O5'	-11.22	87.16	104.00
130	L7	3	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	5864	DG	P-O3'-C3'	-11.22	103.37	120.20
11	AB	5943	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	6108	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	6360	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	6624	DT	O3'-P-O5'	-11.22	87.16	104.00
11	AB	7132	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	7218	DC	O3'-P-O5'	-11.22	87.16	104.00
11	AB	7228	DC	O3'-P-O5'	-11.22	87.17	104.00
13	AD	28	DG	P-O3'-C3'	-11.22	103.37	120.20
15	B2	12	DT	O3'-P-O5'	-11.22	87.16	104.00
18	B5	27	DT	O3'-P-O5'	-11.22	87.17	104.00
22	B9	48	DT	O3'-P-O5'	-11.22	87.17	104.00
24	BC	8	DG	P-O3'-C3'	-11.22	103.36	120.20
31	C7	27	DT	O3'-P-O5'	-11.22	87.16	104.00
29	C5	8	DT	O3'-P-O5'	-11.22	87.17	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	DD	19	DC	O3'-P-O5'	-11.22	87.16	104.00
50	E3	8	DT	O3'-P-O5'	-11.22	87.16	104.00
212	U2	15	DT	O3'-P-O5'	-11.22	87.16	104.00
52	E6	20	DC	O3'-P-O5'	-11.22	87.17	104.00
60	F2	10	DT	O3'-P-O5'	-11.22	87.17	104.00
65	F8	9	DC	O3'-P-O5'	-11.22	87.17	104.00
70	G1	17	DT	O3'-P-O5'	-11.22	87.17	104.00
73	G5	12	DC	O3'-P-O5'	-11.22	87.16	104.00
74	G6	10	DT	O3'-P-O5'	-11.22	87.17	104.00
74	G6	21	DG	P-O3'-C3'	-11.22	103.36	120.20
83	H3	8	DT	O3'-P-O5'	-11.22	87.16	104.00
90	HC	9	DC	O3'-P-O5'	-11.22	87.16	104.00
85	H6	9	DC	O3'-P-O5'	-11.22	87.17	104.00
106	J5	23	DC	O3'-P-O5'	-11.22	87.16	104.00
122	KA	41	DC	O3'-P-O5'	-11.22	87.17	104.00
139	M6	6	DT	O3'-P-O5'	-11.22	87.16	104.00
143	MA	12	DC	O3'-P-O5'	-11.22	87.17	104.00
145	MD	29	DT	O3'-P-O5'	-11.22	87.16	104.00
158	O5	8	DT	O3'-P-O5'	-11.22	87.17	104.00
167	P3	13	DT	O3'-P-O5'	-11.22	87.16	104.00
174	PC	7	DG	P-O3'-C3'	-11.22	103.37	120.20
174	PC	11	DG	P-O3'-C3'	-11.22	103.37	120.20
176	Q2	17	DT	O3'-P-O5'	-11.22	87.16	104.00
184	QD	20	DC	O3'-P-O5'	-11.22	87.16	104.00
192	RC	7	DG	P-O3'-C3'	-11.22	103.37	120.20
198	S8	18	DC	O3'-P-O5'	-11.22	87.16	104.00
200	SA	12	DG	P-O3'-C3'	-11.22	103.36	120.20
200	SA	13	DC	O3'-P-O5'	-11.22	87.17	104.00
200	SA	14	DC	O3'-P-O5'	-11.22	87.16	104.00
216	U8	20	DC	O3'-P-O5'	-11.22	87.17	104.00
219	UC	5	DC	O3'-P-O5'	-11.22	87.16	104.00
217	U9	8	DC	O3'-P-O5'	-11.22	87.17	104.00
219	UC	15	DT	O3'-P-O5'	-11.22	87.17	104.00
226	V9	30	DC	O3'-P-O5'	-11.22	87.17	104.00
228	VC	19	DC	O3'-P-O5'	-11.22	87.16	104.00
230	W3	32	DT	O3'-P-O5'	-11.22	87.16	104.00
8	A8	14	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	2	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	11	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	341	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	756	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	999	DG	P-O3'-C3'	-11.22	103.37	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3582	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	3882	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4163	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4459	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4609	DC	O3'-P-O5'	-11.22	87.17	104.00
154	NC	27	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	78	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	114	DG	P-O3'-C3'	-11.22	103.37	120.20
11	AB	501	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	917	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	1077	DG	P-O3'-C3'	-11.22	103.37	120.20
11	AB	1789	DG	P-O3'-C3'	-11.22	103.37	120.20
11	AB	1868	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	2391	DG	P-O3'-C3'	-11.22	103.37	120.20
11	AB	6367	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	1107	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	1209	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	1412	DT	O3'-P-O5'	-11.22	87.17	104.00
190	R9	38	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	1448	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	1967	DG	P-O3'-C3'	-11.22	103.37	120.20
11	AB	2928	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	3048	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	3093	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	3492	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4128	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4322	DG	P-O3'-C3'	-11.22	103.37	120.20
11	AB	3403	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	3534	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4058	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4154	DG	P-O3'-C3'	-11.22	103.37	120.20
11	AB	4567	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4583	DG	P-O3'-C3'	-11.22	103.37	120.20
11	AB	4643	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4982	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	5102	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	5174	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	5339	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	5629	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	5782	DG	P-O3'-C3'	-11.22	103.37	120.20
179	Q7	23	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	5753	DT	O3'-P-O5'	-11.22	87.17	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5793	DG	P-O3'-C3'	-11.22	103.37	120.20
11	AB	5835	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	7051	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	5867	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	6198	DT	O3'-P-O5'	-11.22	87.17	104.00
109	J8	36	DT	O3'-P-O5'	-11.22	87.17	104.00
154	NC	1	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	6622	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	6822	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	6833	DG	P-O3'-C3'	-11.22	103.37	120.20
11	AB	7187	DG	P-O3'-C3'	-11.22	103.37	120.20
20	B7	10	DC	O3'-P-O5'	-11.22	87.17	104.00
24	BC	18	DT	O3'-P-O5'	-11.22	87.17	104.00
31	C7	24	DT	O3'-P-O5'	-11.22	87.17	104.00
55	E9	18	DG	P-O3'-C3'	-11.22	103.37	120.20
32	C8	22	DC	O3'-P-O5'	-11.22	87.17	104.00
37	D1	8	DC	O3'-P-O5'	-11.22	87.17	104.00
37	D1	38	DT	O3'-P-O5'	-11.22	87.17	104.00
48	E1	8	DC	O3'-P-O5'	-11.22	87.17	104.00
50	E3	12	DT	O3'-P-O5'	-11.22	87.17	104.00
64	F7	25	DT	O3'-P-O5'	-11.22	87.17	104.00
75	G7	7	DT	O3'-P-O5'	-11.22	87.17	104.00
96	I6	17	DC	O3'-P-O5'	-11.22	87.17	104.00
74	G6	35	DG	P-O3'-C3'	-11.22	103.37	120.20
93	I2	30	DG	P-O3'-C3'	-11.22	103.37	120.20
98	I8	16	DT	O3'-P-O5'	-11.22	87.17	104.00
100	IA	15	DT	O3'-P-O5'	-11.22	87.17	104.00
101	IC	22	DC	O3'-P-O5'	-11.22	87.17	104.00
145	MD	49	DC	O3'-P-O5'	-11.22	87.17	104.00
209	TA	35	DT	O3'-P-O5'	-11.22	87.17	104.00
105	J3	15	DC	O3'-P-O5'	-11.22	87.17	104.00
106	J5	7	DG	P-O3'-C3'	-11.22	103.37	120.20
171	P8	19	DT	O3'-P-O5'	-11.22	87.17	104.00
178	Q5	5	DG	P-O3'-C3'	-11.22	103.37	120.20
189	R8	15	DC	O3'-P-O5'	-11.22	87.17	104.00
122	KA	38	DT	O3'-P-O5'	-11.22	87.17	104.00
122	KA	47	DT	O3'-P-O5'	-11.22	87.17	104.00
126	L2	11	DT	O3'-P-O5'	-11.22	87.17	104.00
126	L2	21	DT	O3'-P-O5'	-11.22	87.17	104.00
127	L3	7	DT	O3'-P-O5'	-11.22	87.17	104.00
136	M2	6	DG	P-O3'-C3'	-11.22	103.37	120.20
158	O5	23	DT	O3'-P-O5'	-11.22	87.17	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
143	MA	14	DG	P-O3'-C3'	-11.22	103.37	120.20
146	N2	22	DG	P-O3'-C3'	-11.22	103.37	120.20
165	OD	27	DC	O3'-P-O5'	-11.22	87.17	104.00
158	O5	50	DG	P-O3'-C3'	-11.22	103.37	120.20
171	P8	18	DT	O3'-P-O5'	-11.22	87.17	104.00
172	P9	25	DC	O3'-P-O5'	-11.22	87.17	104.00
175	PD	18	DC	O3'-P-O5'	-11.22	87.17	104.00
180	Q8	5	DG	P-O3'-C3'	-11.22	103.37	120.20
197	S7	4	DC	O3'-P-O5'	-11.22	87.17	104.00
188	R7	8	DG	P-O3'-C3'	-11.22	103.37	120.20
203	T2	10	DG	P-O3'-C3'	-11.22	103.37	120.20
206	T7	47	DT	O3'-P-O5'	-11.22	87.17	104.00
211	TD	7	DT	O3'-P-O5'	-11.22	87.17	104.00
228	VC	31	DC	O3'-P-O5'	-11.22	87.17	104.00
238	X9	47	DT	O3'-P-O5'	-11.22	87.17	104.00
3	A3	7	DC	O3'-P-O5'	-11.22	87.17	104.00
4	A4	11	DG	P-O3'-C3'	-11.22	103.37	120.20
4	A4	30	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	1086	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	3969	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4157	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4206	DT	O3'-P-O5'	-11.22	87.17	104.00
46	DC	10	DT	O3'-P-O5'	-11.22	87.17	104.00
48	E1	16	DC	O3'-P-O5'	-11.22	87.17	104.00
51	E5	11	DG	P-O3'-C3'	-11.22	103.37	120.20
153	NA	15	DG	P-O3'-C3'	-11.22	103.37	120.20
187	R5	4	DG	P-O3'-C3'	-11.22	103.37	120.20
192	RC	15	DT	O3'-P-O5'	-11.22	87.17	104.00
212	U2	10	DG	P-O3'-C3'	-11.22	103.37	120.20
228	VC	12	DG	P-O3'-C3'	-11.22	103.37	120.20
238	X9	41	DT	O3'-P-O5'	-11.22	87.17	104.00
8	A8	8	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	67	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	202	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	235	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	300	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	2351	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	471	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	949	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	1622	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	2042	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	2131	DT	O3'-P-O5'	-11.22	87.17	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2315	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	2328	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	2339	DG	P-O3'-C3'	-11.22	103.37	120.20
11	AB	2524	DG	P-O3'-C3'	-11.22	103.37	120.20
11	AB	4487	DC	O3'-P-O5'	-11.22	87.17	104.00
145	MD	40	DC	O3'-P-O5'	-11.22	87.17	104.00
146	N2	23	DC	O3'-P-O5'	-11.22	87.17	104.00
197	S7	6	DG	P-O3'-C3'	-11.22	103.37	120.20
11	AB	2578	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	2639	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	3264	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	3383	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	3698	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	3806	DG	P-O3'-C3'	-11.22	103.38	120.20
11	AB	4014	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4071	DG	P-O3'-C3'	-11.22	103.38	120.20
11	AB	4134	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4428	DG	P-O3'-C3'	-11.22	103.37	120.20
11	AB	4564	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4598	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4815	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4842	DG	P-O3'-C3'	-11.22	103.37	120.20
11	AB	4897	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	4974	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	5402	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	6325	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	5468	DG	P-O3'-C3'	-11.22	103.37	120.20
11	AB	5526	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	5605	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	5618	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	5646	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	5670	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	6034	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	6149	DT	O3'-P-O5'	-11.22	87.17	104.00
11	AB	6752	DG	P-O3'-C3'	-11.22	103.37	120.20
22	B9	5	DC	O3'-P-O5'	-11.22	87.17	104.00
11	AB	6755	DG	P-O3'-C3'	-11.22	103.38	120.20
11	AB	6783	DT	O3'-P-O5'	-11.22	87.17	104.00
13	AD	14	DG	P-O3'-C3'	-11.22	103.37	120.20
22	B9	39	DT	O3'-P-O5'	-11.22	87.17	104.00
35	CC	19	DT	O3'-P-O5'	-11.22	87.17	104.00
102	ID	30	DG	P-O3'-C3'	-11.22	103.37	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	B2	18	DT	O3'-P-O5'	-11.22	87.17	104.00
30	C6	11	DC	O3'-P-O5'	-11.22	87.17	104.00
38	D2	17	DG	P-O3'-C3'	-11.22	103.37	120.20
82	H2	50	DT	O3'-P-O5'	-11.22	87.17	104.00
138	M5	1	DC	O3'-P-O5'	-11.22	87.17	104.00
47	DD	10	DC	O3'-P-O5'	-11.22	87.17	104.00
52	E6	10	DT	O3'-P-O5'	-11.22	87.17	104.00
67	FA	18	DG	P-O3'-C3'	-11.22	103.37	120.20
149	N6	2	DG	P-O3'-C3'	-11.22	103.37	120.20
84	H5	16	DT	O3'-P-O5'	-11.22	87.17	104.00
84	H5	34	DC	O3'-P-O5'	-11.22	87.17	104.00
85	H6	10	DC	O3'-P-O5'	-11.22	87.17	104.00
103	J1	2	DC	O3'-P-O5'	-11.22	87.17	104.00
108	J7	25	DT	O3'-P-O5'	-11.22	87.17	104.00
108	J7	37	DT	O3'-P-O5'	-11.22	87.17	104.00
117	K5	47	DC	O3'-P-O5'	-11.22	87.17	104.00
137	M3	29	DC	O3'-P-O5'	-11.22	87.17	104.00
139	M6	22	DC	O3'-P-O5'	-11.22	87.17	104.00
142	M9	5	DG	P-O3'-C3'	-11.22	103.37	120.20
151	N8	13	DT	O3'-P-O5'	-11.22	87.17	104.00
156	O2	11	DG	P-O3'-C3'	-11.22	103.37	120.20
164	OC	15	DC	O3'-P-O5'	-11.22	87.17	104.00
166	P2	34	DT	O3'-P-O5'	-11.22	87.17	104.00
173	PA	25	DT	O3'-P-O5'	-11.22	87.17	104.00
181	Q9	33	DT	O3'-P-O5'	-11.22	87.17	104.00
182	QA	20	DG	P-O3'-C3'	-11.22	103.37	120.20
184	QD	4	DC	O3'-P-O5'	-11.22	87.17	104.00
185	R2	12	DC	O3'-P-O5'	-11.22	87.17	104.00
216	U8	19	DG	P-O3'-C3'	-11.22	103.37	120.20
227	VA	16	DC	O3'-P-O5'	-11.22	87.17	104.00
9	A9	2	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	55	DT	O3'-P-O5'	-11.22	87.18	104.00
11	AB	537	DC	O3'-P-O5'	-11.22	87.18	104.00
11	AB	4133	DG	P-O3'-C3'	-11.22	103.38	120.20
11	AB	5636	DG	P-O3'-C3'	-11.22	103.38	120.20
11	AB	7155	DC	O3'-P-O5'	-11.22	87.17	104.00
162	O9	7	DC	O3'-P-O5'	-11.22	87.18	104.00
190	R9	28	DG	P-O3'-C3'	-11.22	103.38	120.20
11	AB	42	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	49	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	86	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	204	DG	P-O3'-C3'	-11.21	103.38	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	228	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	515	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	711	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	818	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	1055	DT	O3'-P-O5'	-11.22	87.18	104.00
11	AB	1126	DG	P-O3'-C3'	-11.22	103.38	120.20
11	AB	1623	DC	O3'-P-O5'	-11.22	87.18	104.00
11	AB	1748	DT	O3'-P-O5'	-11.22	87.18	104.00
11	AB	2750	DT	O3'-P-O5'	-11.22	87.18	104.00
11	AB	1127	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	1293	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	1359	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	1798	DG	P-O3'-C3'	-11.22	103.38	120.20
11	AB	3145	DC	O3'-P-O5'	-11.22	87.18	104.00
11	AB	3791	DT	O3'-P-O5'	-11.22	87.18	104.00
11	AB	4065	DC	O3'-P-O5'	-11.22	87.18	104.00
11	AB	4175	DG	P-O3'-C3'	-11.22	103.38	120.20
11	AB	7005	DT	O3'-P-O5'	-11.22	87.18	104.00
33	C9	15	DT	O3'-P-O5'	-11.22	87.18	104.00
150	N7	11	DC	O3'-P-O5'	-11.22	87.18	104.00
11	AB	2014	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	2053	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	2255	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	2561	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	2883	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	3201	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	3653	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	3812	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	3888	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	4400	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	4715	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	4817	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	4980	DG	P-O3'-C3'	-11.22	103.38	120.20
11	AB	4967	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	5145	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	5176	DG	P-O3'-C3'	-11.21	103.38	120.20
88	H9	16	DG	P-O3'-C3'	-11.22	103.38	120.20
11	AB	5238	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	5349	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	5550	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	5570	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	5653	DT	O3'-P-O5'	-11.21	87.18	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6999	DG	P-O3'-C3'	-11.22	103.38	120.20
11	AB	5869	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	6038	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	6146	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	6471	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	6548	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	6821	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	6908	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	7007	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	7162	DT	O3'-P-O5'	-11.21	87.18	104.00
82	H2	18	DC	O3'-P-O5'	-11.22	87.18	104.00
95	I5	4	DT	O3'-P-O5'	-11.22	87.18	104.00
188	R7	14	DG	P-O3'-C3'	-11.22	103.38	120.20
14	B1	21	DG	P-O3'-C3'	-11.21	103.38	120.20
18	B5	5	DC	O3'-P-O5'	-11.21	87.18	104.00
22	B9	15	DC	O3'-P-O5'	-11.21	87.18	104.00
24	BC	40	DC	O3'-P-O5'	-11.21	87.18	104.00
69	FD	2	DG	P-O3'-C3'	-11.21	103.38	120.20
69	FD	46	DG	P-O3'-C3'	-11.21	103.38	120.20
83	H3	5	DG	P-O3'-C3'	-11.21	103.38	120.20
83	H3	17	DT	O3'-P-O5'	-11.21	87.18	104.00
89	HA	32	DC	O3'-P-O5'	-11.21	87.18	104.00
91	HD	19	DG	P-O3'-C3'	-11.21	103.38	120.20
92	I1	23	DG	P-O3'-C3'	-11.21	103.38	120.20
101	IC	5	DG	P-O3'-C3'	-11.22	103.38	120.20
96	I6	11	DT	O3'-P-O5'	-11.21	87.18	104.00
104	J2	41	DT	O3'-P-O5'	-11.21	87.18	104.00
107	J6	24	DT	O3'-P-O5'	-11.21	87.18	104.00
113	JD	31	DC	O3'-P-O5'	-11.21	87.18	104.00
121	K9	14	DT	O3'-P-O5'	-11.21	87.18	104.00
129	L6	23	DG	P-O3'-C3'	-11.21	103.38	120.20
138	M5	10	DT	O3'-P-O5'	-11.21	87.18	104.00
147	N3	23	DC	O3'-P-O5'	-11.21	87.18	104.00
156	O2	45	DG	P-O3'-C3'	-11.21	103.38	120.20
161	O8	26	DC	O3'-P-O5'	-11.21	87.18	104.00
162	O9	16	DC	O3'-P-O5'	-11.21	87.18	104.00
162	O9	17	DC	O3'-P-O5'	-11.22	87.18	104.00
162	O9	19	DT	O3'-P-O5'	-11.21	87.18	104.00
165	OD	18	DT	O3'-P-O5'	-11.21	87.18	104.00
168	P5	1	DC	O3'-P-O5'	-11.22	87.18	104.00
197	S7	11	DC	O3'-P-O5'	-11.22	87.18	104.00
204	T3	24	DG	P-O3'-C3'	-11.22	103.38	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
205	T5	3	DC	O3'-P-O5'	-11.22	87.18	104.00
167	P3	32	DC	O3'-P-O5'	-11.21	87.18	104.00
169	P6	21	DT	O3'-P-O5'	-11.21	87.18	104.00
200	SA	6	DG	P-O3'-C3'	-11.21	103.38	120.20
204	T3	25	DC	O3'-P-O5'	-11.22	87.17	104.00
212	U2	6	DT	O3'-P-O5'	-11.22	87.18	104.00
228	VC	2	DT	O3'-P-O5'	-11.21	87.18	104.00
228	VC	30	DC	O3'-P-O5'	-11.21	87.18	104.00
1	A1	15	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	61	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	491	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	564	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	1494	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	1863	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	3654	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	3976	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	4061	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	4135	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	6046	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	6335	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	7146	DC	O3'-P-O5'	-11.21	87.18	104.00
32	C8	4	DG	P-O3'-C3'	-11.21	103.38	120.20
72	G3	24	DC	O3'-P-O5'	-11.21	87.18	104.00
140	M7	8	DC	O3'-P-O5'	-11.21	87.18	104.00
159	O6	17	DT	O3'-P-O5'	-11.21	87.18	104.00
171	P8	23	DT	O3'-P-O5'	-11.21	87.18	104.00
191	RA	11	DC	O3'-P-O5'	-11.21	87.18	104.00
223	V5	1	DC	O3'-P-O5'	-11.21	87.18	104.00
1	A1	1	DT	O3'-P-O5'	-11.21	87.19	104.00
5	A5	31	DC	O3'-P-O5'	-11.21	87.19	104.00
7	A7	25	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	386	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	676	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	738	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	4194	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	642	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	840	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	958	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	1243	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	1247	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	1268	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	1438	DT	O3'-P-O5'	-11.21	87.18	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1895	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	1981	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	2229	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	1521	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	1609	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	1657	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	2287	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	2457	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	2605	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	3579	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	4818	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	4959	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	6701	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	6940	DG	P-O3'-C3'	-11.21	103.38	120.20
37	D1	5	DT	O3'-P-O5'	-11.21	87.18	104.00
83	H3	1	DC	O3'-P-O5'	-11.21	87.18	104.00
187	R5	6	DC	O3'-P-O5'	-11.21	87.18	104.00
189	R8	9	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	1759	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	1971	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	2162	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	2466	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	2996	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	3456	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	3542	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	3551	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	4258	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	3811	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	4004	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	4085	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	4148	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	5868	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	6468	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	6825	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	7154	DG	P-O3'-C3'	-11.21	103.38	120.20
62	F5	46	DT	O3'-P-O5'	-11.21	87.18	104.00
95	I5	26	DT	O3'-P-O5'	-11.21	87.18	104.00
107	J6	36	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	4216	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	4298	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	4706	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	5019	DG	P-O3'-C3'	-11.21	103.39	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5177	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	5186	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	5282	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	5331	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	5365	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	5498	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	5736	DT	O3'-P-O5'	-11.21	87.18	104.00
69	FD	31	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	5884	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	6054	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	6407	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	6734	DG	P-O3'-C3'	-11.21	103.38	120.20
11	AB	6786	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	6831	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	6887	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	7099	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	7105	DT	O3'-P-O5'	-11.21	87.18	104.00
11	AB	7245	DC	O3'-P-O5'	-11.21	87.19	104.00
13	AD	33	DG	P-O3'-C3'	-11.21	103.38	120.20
17	B4	11	DG	P-O3'-C3'	-11.21	103.38	120.20
22	B9	32	DC	O3'-P-O5'	-11.21	87.18	104.00
32	C8	26	DC	O3'-P-O5'	-11.21	87.18	104.00
88	H9	2	DT	O3'-P-O5'	-11.21	87.18	104.00
143	MA	9	DG	P-O3'-C3'	-11.21	103.38	120.20
19	B6	23	DT	O3'-P-O5'	-11.21	87.19	104.00
32	C8	2	DT	O3'-P-O5'	-11.21	87.18	104.00
38	D2	14	DG	P-O3'-C3'	-11.21	103.38	120.20
113	JD	12	DG	P-O3'-C3'	-11.21	103.38	120.20
117	K5	6	DT	O3'-P-O5'	-11.21	87.18	104.00
122	KA	20	DT	O3'-P-O5'	-11.21	87.18	104.00
147	N3	17	DC	O3'-P-O5'	-11.21	87.18	104.00
148	N5	25	DT	O3'-P-O5'	-11.21	87.18	104.00
181	Q9	16	DG	P-O3'-C3'	-11.21	103.38	120.20
41	D6	41	DT	O3'-P-O5'	-11.21	87.19	104.00
43	D8	3	DT	O3'-P-O5'	-11.21	87.19	104.00
49	E2	1	DC	O3'-P-O5'	-11.21	87.19	104.00
52	E6	33	DG	P-O3'-C3'	-11.21	103.39	120.20
54	E8	28	DG	P-O3'-C3'	-11.21	103.38	120.20
59	F1	10	DC	O3'-P-O5'	-11.21	87.18	104.00
67	FA	16	DT	O3'-P-O5'	-11.21	87.19	104.00
90	HC	12	DC	O3'-P-O5'	-11.21	87.19	104.00
93	I2	48	DC	O3'-P-O5'	-11.21	87.19	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
96	I6	3	DG	P-O3'-C3'	-11.21	103.39	120.20
98	I8	25	DG	P-O3'-C3'	-11.21	103.38	120.20
109	J8	2	DG	P-O3'-C3'	-11.21	103.38	120.20
117	K5	28	DC	O3'-P-O5'	-11.21	87.18	104.00
125	L1	40	DC	O3'-P-O5'	-11.21	87.18	104.00
131	L8	7	DC	O3'-P-O5'	-11.21	87.18	104.00
132	L9	1	DT	O3'-P-O5'	-11.21	87.18	104.00
143	MA	30	DG	P-O3'-C3'	-11.21	103.38	120.20
143	MA	38	DC	O3'-P-O5'	-11.21	87.18	104.00
229	VD	3	DC	O3'-P-O5'	-11.21	87.18	104.00
157	O3	6	DC	O3'-P-O5'	-11.21	87.19	104.00
173	PA	32	DT	O3'-P-O5'	-11.21	87.19	104.00
190	R9	45	DG	P-O3'-C3'	-11.21	103.38	120.20
196	S5	20	DC	O3'-P-O5'	-11.21	87.18	104.00
203	T2	19	DT	O3'-P-O5'	-11.21	87.18	104.00
211	TD	34	DT	O3'-P-O5'	-11.21	87.18	104.00
224	V7	19	DT	O3'-P-O5'	-11.21	87.18	104.00
230	W3	6	DC	O3'-P-O5'	-11.21	87.18	104.00
11	AB	291	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	307	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	1202	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	1366	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	4110	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	5187	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	6203	DT	O3'-P-O5'	-11.21	87.19	104.00
32	C8	29	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	4	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	457	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	461	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	931	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	1038	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	1239	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	1459	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	1658	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	1673	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	1975	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	2280	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	2556	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	4568	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	2588	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	2589	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	2758	DT	O3'-P-O5'	-11.21	87.19	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3339	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	3489	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	3491	DG	P-O3'-C3'	-11.21	103.39	120.20
37	D1	24	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	3537	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	3606	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	4193	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	4252	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	5301	DG	P-O3'-C3'	-11.21	103.39	120.20
38	D2	15	DC	O3'-P-O5'	-11.21	87.19	104.00
47	DD	44	DC	O3'-P-O5'	-11.21	87.19	104.00
178	Q5	6	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	4142	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	4162	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	4185	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	4297	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	4477	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	4480	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	4622	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	4925	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	4998	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	5418	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	6134	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	6920	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	6980	DC	O3'-P-O5'	-11.21	87.19	104.00
70	G1	6	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	4665	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	4809	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	4969	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	5024	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	5062	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	5078	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	5253	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	5355	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	5356	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	5521	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	5824	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	5568	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	5677	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	5799	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	6090	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	6189	DG	P-O3'-C3'	-11.21	103.39	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6378	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	6386	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	6528	DT	O3'-P-O5'	-11.21	87.19	104.00
145	MD	24	DG	P-O3'-C3'	-11.21	103.39	120.20
166	P2	30	DC	O3'-P-O5'	-11.21	87.19	104.00
211	TD	2	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	6605	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	6630	DG	P-O3'-C3'	-11.21	103.39	120.20
81	H1	19	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	6680	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	6762	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	6834	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	6905	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	7084	DG	P-O3'-C3'	-11.21	103.39	120.20
14	B1	33	DG	P-O3'-C3'	-11.21	103.39	120.20
37	D1	18	DC	O3'-P-O5'	-11.21	87.19	104.00
61	F3	20	DC	O3'-P-O5'	-11.21	87.19	104.00
73	G5	2	DC	O3'-P-O5'	-11.21	87.19	104.00
92	I1	10	DT	O3'-P-O5'	-11.21	87.19	104.00
135	LD	19	DT	O3'-P-O5'	-11.21	87.19	104.00
15	B2	21	DC	O3'-P-O5'	-11.21	87.19	104.00
24	BC	30	DC	O3'-P-O5'	-11.21	87.19	104.00
26	C1	1	DC	O3'-P-O5'	-11.21	87.19	104.00
27	C2	6	DG	P-O3'-C3'	-11.21	103.39	120.20
30	C6	17	DG	P-O3'-C3'	-11.21	103.39	120.20
31	C7	30	DG	P-O3'-C3'	-11.21	103.39	120.20
32	C8	39	DG	P-O3'-C3'	-11.21	103.39	120.20
37	D1	21	DC	O3'-P-O5'	-11.21	87.19	104.00
43	D8	9	DG	P-O3'-C3'	-11.21	103.39	120.20
47	DD	36	DT	O3'-P-O5'	-11.21	87.19	104.00
52	E6	23	DC	O3'-P-O5'	-11.21	87.19	104.00
56	EA	18	DC	O3'-P-O5'	-11.21	87.19	104.00
82	H2	5	DG	P-O3'-C3'	-11.21	103.39	120.20
82	H2	38	DG	P-O3'-C3'	-11.21	103.39	120.20
84	H5	23	DC	O3'-P-O5'	-11.21	87.19	104.00
86	H7	22	DC	O3'-P-O5'	-11.21	87.19	104.00
107	J6	2	DC	O3'-P-O5'	-11.21	87.19	104.00
126	L2	45	DG	P-O3'-C3'	-11.21	103.39	120.20
88	H9	14	DG	P-O3'-C3'	-11.21	103.39	120.20
111	JA	17	DC	O3'-P-O5'	-11.21	87.19	104.00
149	N6	50	DG	P-O3'-C3'	-11.21	103.39	120.20
122	KA	40	DC	O3'-P-O5'	-11.21	87.19	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
132	L9	12	DG	P-O3'-C3'	-11.21	103.39	120.20
136	M2	10	DT	O3'-P-O5'	-11.21	87.19	104.00
149	N6	11	DC	O3'-P-O5'	-11.21	87.19	104.00
152	N9	36	DT	O3'-P-O5'	-11.21	87.19	104.00
157	O3	16	DT	O3'-P-O5'	-11.21	87.19	104.00
161	O8	7	DT	O3'-P-O5'	-11.21	87.19	104.00
167	P3	22	DC	O3'-P-O5'	-11.21	87.19	104.00
173	PA	9	DC	O3'-P-O5'	-11.21	87.19	104.00
173	PA	36	DG	P-O3'-C3'	-11.21	103.39	120.20
179	Q7	22	DG	P-O3'-C3'	-11.21	103.39	120.20
211	TD	39	DG	P-O3'-C3'	-11.21	103.39	120.20
177	Q3	8	DC	O3'-P-O5'	-11.21	87.19	104.00
185	R2	11	DG	P-O3'-C3'	-11.21	103.39	120.20
194	S2	29	DG	P-O3'-C3'	-11.21	103.39	120.20
209	TA	21	DC	O3'-P-O5'	-11.21	87.19	104.00
211	TD	41	DG	P-O3'-C3'	-11.21	103.39	120.20
223	V5	37	DG	P-O3'-C3'	-11.21	103.39	120.20
4	A4	32	DT	O3'-P-O5'	-11.21	87.19	104.00
6	A6	9	DG	P-O3'-C3'	-11.21	103.39	120.20
9	A9	12	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	781	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	843	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	1289	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	2149	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	2373	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	2394	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	4167	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	4580	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	4987	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	5531	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	6369	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	6843	DT	O3'-P-O5'	-11.21	87.19	104.00
30	C6	18	DC	O3'-P-O5'	-11.21	87.19	104.00
61	F3	6	DG	P-O3'-C3'	-11.21	103.39	120.20
68	FC	17	DG	P-O3'-C3'	-11.21	103.39	120.20
115	K2	17	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	833	DG	P-O3'-C3'	-11.20	103.39	120.20
11	AB	1040	DG	P-O3'-C3'	-11.20	103.39	120.20
11	AB	1879	DT	O3'-P-O5'	-11.20	87.19	104.00
11	AB	2018	DG	P-O3'-C3'	-11.20	103.39	120.20
11	AB	2082	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	2476	DT	O3'-P-O5'	-11.21	87.19	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2939	DC	O3'-P-O5'	-11.21	87.19	104.00
11	AB	4608	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	5070	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	2571	DT	O3'-P-O5'	-11.20	87.19	104.00
11	AB	3054	DT	O3'-P-O5'	-11.20	87.19	104.00
11	AB	3060	DT	O3'-P-O5'	-11.20	87.19	104.00
11	AB	3227	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	3712	DC	O3'-P-O5'	-11.21	87.19	104.00
106	J5	15	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	4052	DC	O3'-P-O5'	-11.20	87.19	104.00
11	AB	4069	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	4444	DC	O3'-P-O5'	-11.20	87.19	104.00
11	AB	4850	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	4915	DT	O3'-P-O5'	-11.21	87.19	104.00
119	K7	30	DT	O3'-P-O5'	-11.21	87.19	104.00
11	AB	5025	DC	O3'-P-O5'	-11.20	87.19	104.00
11	AB	5033	DC	O3'-P-O5'	-11.20	87.19	104.00
11	AB	6030	DG	P-O3'-C3'	-11.20	103.39	120.20
11	AB	6730	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	6997	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	7152	DT	O3'-P-O5'	-11.21	87.19	104.00
24	BC	15	DG	P-O3'-C3'	-11.21	103.39	120.20
227	VA	7	DG	P-O3'-C3'	-11.21	103.39	120.20
11	AB	7214	DG	P-O3'-C3'	-11.20	103.39	120.20
11	AB	7227	DC	O3'-P-O5'	-11.21	87.19	104.00
37	D1	25	DC	O3'-P-O5'	-11.21	87.19	104.00
40	D5	24	DG	P-O3'-C3'	-11.21	103.39	120.20
48	E1	24	DC	O3'-P-O5'	-11.21	87.19	104.00
84	H5	24	DC	O3'-P-O5'	-11.21	87.19	104.00
104	J2	10	DC	O3'-P-O5'	-11.21	87.19	104.00
147	N3	12	DG	P-O3'-C3'	-11.21	103.39	120.20
54	E8	26	DG	P-O3'-C3'	-11.20	103.39	120.20
57	EC	14	DG	P-O3'-C3'	-11.20	103.39	120.20
59	F1	7	DC	O3'-P-O5'	-11.21	87.19	104.00
62	F5	18	DG	P-O3'-C3'	-11.20	103.39	120.20
77	G9	10	DG	P-O3'-C3'	-11.20	103.39	120.20
82	H2	21	DG	P-O3'-C3'	-11.21	103.39	120.20
88	H9	28	DC	O3'-P-O5'	-11.21	87.19	104.00
82	H2	47	DG	P-O3'-C3'	-11.20	103.39	120.20
92	I1	17	DG	P-O3'-C3'	-11.20	103.39	120.20
108	J7	55	DG	P-O3'-C3'	-11.20	103.39	120.20
109	J8	51	DT	O3'-P-O5'	-11.21	87.19	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
113	JD	20	DT	O3'-P-O5'	-11.21	87.19	104.00
117	K5	27	DG	P-O3'-C3'	-11.20	103.39	120.20
126	L2	39	DC	O3'-P-O5'	-11.20	87.19	104.00
141	M8	18	DC	O3'-P-O5'	-11.21	87.19	104.00
143	MA	21	DC	O3'-P-O5'	-11.21	87.19	104.00
149	N6	29	DT	O3'-P-O5'	-11.21	87.19	104.00
158	O5	19	DC	O3'-P-O5'	-11.20	87.19	104.00
166	P2	11	DG	P-O3'-C3'	-11.20	103.39	120.20
170	P7	15	DT	O3'-P-O5'	-11.21	87.19	104.00
172	P9	20	DG	P-O3'-C3'	-11.20	103.39	120.20
172	P9	21	DC	O3'-P-O5'	-11.20	87.19	104.00
175	PD	17	DG	P-O3'-C3'	-11.21	103.39	120.20
187	R5	11	DC	O3'-P-O5'	-11.20	87.19	104.00
209	TA	12	DG	P-O3'-C3'	-11.21	103.39	120.20
209	TA	33	DG	P-O3'-C3'	-11.21	103.39	120.20
214	U5	21	DG	P-O3'-C3'	-11.21	103.39	120.20
227	VA	20	DG	P-O3'-C3'	-11.21	103.39	120.20
228	VC	27	DT	O3'-P-O5'	-11.20	87.19	104.00
238	X9	35	DC	O3'-P-O5'	-11.20	87.19	104.00
238	X9	49	DG	P-O3'-C3'	-11.20	103.39	120.20
11	AB	493	DT	O3'-P-O5'	-11.20	87.19	104.00
11	AB	534	DC	O3'-P-O5'	-11.20	87.19	104.00
11	AB	1027	DC	O3'-P-O5'	-11.20	87.19	104.00
11	AB	5798	DG	P-O3'-C3'	-11.20	103.39	120.20
11	AB	378	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	1267	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	1573	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	1611	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	1819	DG	P-O3'-C3'	-11.20	103.39	120.20
11	AB	1979	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	2081	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	2303	DT	O3'-P-O5'	-11.20	87.20	104.00
11	AB	2263	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	2774	DT	O3'-P-O5'	-11.20	87.20	104.00
11	AB	2877	DG	P-O3'-C3'	-11.20	103.39	120.20
11	AB	3051	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	3056	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	3140	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	3369	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	3621	DG	P-O3'-C3'	-11.20	103.39	120.20
11	AB	3749	DC	O3'-P-O5'	-11.20	87.19	104.00
11	AB	5543	DT	O3'-P-O5'	-11.20	87.20	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	D8	23	DC	O3'-P-O5'	-11.20	87.19	104.00
187	R5	5	DC	O3'-P-O5'	-11.20	87.19	104.00
11	AB	3469	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	3956	DT	O3'-P-O5'	-11.20	87.20	104.00
11	AB	4001	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	4231	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	4525	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	4575	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	4667	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	4791	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	4859	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	4866	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	4934	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	5159	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	5242	DG	P-O3'-C3'	-11.20	103.39	120.20
40	D5	22	DT	O3'-P-O5'	-11.20	87.20	104.00
164	OC	27	DT	O3'-P-O5'	-11.20	87.20	104.00
11	AB	4968	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	5001	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	5017	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	6004	DG	P-O3'-C3'	-11.20	103.40	120.20
93	I2	25	DG	P-O3'-C3'	-11.20	103.39	120.20
11	AB	5103	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	5348	DT	O3'-P-O5'	-11.20	87.20	104.00
11	AB	5379	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	5741	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	5772	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	5886	DT	O3'-P-O5'	-11.20	87.20	104.00
11	AB	6074	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	6475	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	6505	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	6684	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	7073	DC	O3'-P-O5'	-11.20	87.19	104.00
11	AB	6899	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	7050	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	7217	DG	P-O3'-C3'	-11.20	103.40	120.20
15	B2	20	DG	P-O3'-C3'	-11.20	103.40	120.20
18	B5	4	DC	O3'-P-O5'	-11.20	87.20	104.00
22	B9	41	DG	P-O3'-C3'	-11.20	103.40	120.20
34	CA	3	DT	O3'-P-O5'	-11.20	87.20	104.00
43	D8	12	DT	O3'-P-O5'	-11.20	87.20	104.00
44	D9	27	DG	P-O3'-C3'	-11.20	103.40	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
50	E3	4	DG	P-O3'-C3'	-11.20	103.40	120.20
53	E7	16	DG	P-O3'-C3'	-11.20	103.40	120.20
79	GC	12	DG	P-O3'-C3'	-11.20	103.40	120.20
214	U5	8	DG	P-O3'-C3'	-11.20	103.40	120.20
52	E6	31	DC	O3'-P-O5'	-11.20	87.20	104.00
59	F1	8	DC	O3'-P-O5'	-11.20	87.20	104.00
60	F2	1	DC	O3'-P-O5'	-11.20	87.20	104.00
60	F2	13	DC	O3'-P-O5'	-11.20	87.20	104.00
69	FD	37	DG	P-O3'-C3'	-11.20	103.39	120.20
104	J2	7	DC	O3'-P-O5'	-11.20	87.20	104.00
112	JC	2	DG	P-O3'-C3'	-11.20	103.40	120.20
115	K2	15	DG	P-O3'-C3'	-11.20	103.40	120.20
132	L9	8	DT	O3'-P-O5'	-11.20	87.19	104.00
160	O7	13	DG	P-O3'-C3'	-11.20	103.40	120.20
187	R5	33	DC	O3'-P-O5'	-11.20	87.19	104.00
114	K1	16	DG	P-O3'-C3'	-11.20	103.40	120.20
115	K2	18	DC	O3'-P-O5'	-11.20	87.20	104.00
126	L2	28	DC	O3'-P-O5'	-11.20	87.20	104.00
127	L3	4	DG	P-O3'-C3'	-11.20	103.40	120.20
128	L5	20	DC	O3'-P-O5'	-11.20	87.20	104.00
133	LA	6	DG	P-O3'-C3'	-11.20	103.40	120.20
134	LC	7	DC	O3'-P-O5'	-11.20	87.20	104.00
145	MD	38	DG	P-O3'-C3'	-11.20	103.40	120.20
145	MD	50	DC	O3'-P-O5'	-11.20	87.20	104.00
147	N3	5	DG	P-O3'-C3'	-11.20	103.40	120.20
151	N8	5	DC	O3'-P-O5'	-11.20	87.20	104.00
155	ND	1	DT	O3'-P-O5'	-11.20	87.20	104.00
161	O8	16	DC	O3'-P-O5'	-11.20	87.20	104.00
169	P6	5	DG	P-O3'-C3'	-11.20	103.40	120.20
177	Q3	25	DT	O3'-P-O5'	-11.20	87.20	104.00
180	Q8	21	DC	O3'-P-O5'	-11.20	87.20	104.00
195	S3	20	DT	O3'-P-O5'	-11.20	87.20	104.00
206	T7	12	DG	P-O3'-C3'	-11.20	103.40	120.20
212	U2	25	DC	O3'-P-O5'	-11.20	87.20	104.00
230	W3	33	DT	O3'-P-O5'	-11.20	87.20	104.00
8	A8	21	DC	O3'-P-O5'	-11.20	87.20	104.00
10	AA	18	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	328	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	1092	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	1501	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	5277	DG	P-O3'-C3'	-11.20	103.40	120.20
20	B7	18	DC	O3'-P-O5'	-11.20	87.20	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	20	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	126	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	337	DT	O3'-P-O5'	-11.20	87.20	104.00
11	AB	427	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	773	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	859	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	2240	DT	O3'-P-O5'	-11.20	87.20	104.00
11	AB	2924	DC	O3'-P-O5'	-11.20	87.20	104.00
87	H8	11	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	495	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	554	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	555	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	817	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	834	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	928	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	1213	DT	O3'-P-O5'	-11.20	87.20	104.00
11	AB	1334	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	1541	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	2171	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	2245	DT	O3'-P-O5'	-11.20	87.20	104.00
11	AB	2296	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	2326	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	2345	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	2550	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	2770	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	3193	DT	O3'-P-O5'	-11.20	87.20	104.00
11	AB	3316	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	3445	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	3918	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	4729	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	6057	DG	P-O3'-C3'	-11.20	103.40	120.20
49	E2	35	DT	O3'-P-O5'	-11.20	87.20	104.00
11	AB	3958	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	4107	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	4116	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	4195	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	4202	DG	P-O3'-C3'	-11.20	103.40	120.20
105	J3	21	DT	O3'-P-O5'	-11.20	87.20	104.00
11	AB	4220	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	4757	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	4898	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	4935	DC	O3'-P-O5'	-11.20	87.20	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5430	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	6918	DG	P-O3'-C3'	-11.20	103.40	120.20
125	L1	25	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	5039	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	5084	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	5085	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	6379	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	5408	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	5794	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	6064	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	6485	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	6933	DG	P-O3'-C3'	-11.20	103.40	120.20
43	D8	17	DC	O3'-P-O5'	-11.20	87.20	104.00
77	G9	3	DT	O3'-P-O5'	-11.20	87.20	104.00
85	H6	22	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	7205	DC	O3'-P-O5'	-11.20	87.20	104.00
32	C8	25	DG	P-O3'-C3'	-11.20	103.40	120.20
36	CD	11	DC	O3'-P-O5'	-11.20	87.20	104.00
58	ED	22	DC	O3'-P-O5'	-11.20	87.20	104.00
83	H3	9	DT	O3'-P-O5'	-11.20	87.20	104.00
85	H6	23	DC	O3'-P-O5'	-11.20	87.20	104.00
91	HD	17	DG	P-O3'-C3'	-11.20	103.40	120.20
94	I3	27	DC	O3'-P-O5'	-11.20	87.20	104.00
93	I2	45	DG	P-O3'-C3'	-11.20	103.40	120.20
94	I3	47	DG	P-O3'-C3'	-11.20	103.40	120.20
104	J2	4	DC	O3'-P-O5'	-11.20	87.20	104.00
104	J2	29	DC	O3'-P-O5'	-11.20	87.20	104.00
106	J5	27	DG	P-O3'-C3'	-11.20	103.40	120.20
107	J6	1	DC	O3'-P-O5'	-11.20	87.20	104.00
107	J6	22	DG	P-O3'-C3'	-11.20	103.40	120.20
109	J8	53	DG	P-O3'-C3'	-11.20	103.40	120.20
114	K1	20	DT	O3'-P-O5'	-11.20	87.20	104.00
122	KA	5	DG	P-O3'-C3'	-11.20	103.40	120.20
122	KA	9	DT	O3'-P-O5'	-11.20	87.20	104.00
127	L3	1	DC	O3'-P-O5'	-11.20	87.20	104.00
137	M3	24	DC	O3'-P-O5'	-11.20	87.20	104.00
139	M6	15	DT	O3'-P-O5'	-11.20	87.20	104.00
139	M6	21	DG	P-O3'-C3'	-11.20	103.40	120.20
150	N7	18	DC	O3'-P-O5'	-11.20	87.20	104.00
156	O2	52	DC	O3'-P-O5'	-11.20	87.20	104.00
167	P3	21	DC	O3'-P-O5'	-11.20	87.20	104.00
169	P6	19	DC	O3'-P-O5'	-11.20	87.20	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
180	Q8	12	DC	O3'-P-O5'	-11.20	87.20	104.00
192	RC	33	DG	P-O3'-C3'	-11.20	103.40	120.20
194	S2	15	DG	P-O3'-C3'	-11.20	103.40	120.20
197	S7	12	DC	O3'-P-O5'	-11.20	87.20	104.00
199	S9	20	DG	P-O3'-C3'	-11.20	103.40	120.20
200	SA	26	DG	P-O3'-C3'	-11.20	103.40	120.20
204	T3	5	DG	P-O3'-C3'	-11.20	103.40	120.20
206	T7	2	DG	P-O3'-C3'	-11.20	103.40	120.20
220	UD	9	DG	P-O3'-C3'	-11.20	103.40	120.20
225	V8	18	DT	O3'-P-O5'	-11.20	87.20	104.00
225	V8	20	DG	P-O3'-C3'	-11.20	103.40	120.20
230	W3	16	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	99	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	294	DG	P-O3'-C3'	-11.20	103.41	120.20
11	AB	296	DT	O3'-P-O5'	-11.20	87.20	104.00
11	AB	1165	DG	P-O3'-C3'	-11.20	103.41	120.20
11	AB	4038	DG	P-O3'-C3'	-11.20	103.41	120.20
11	AB	4642	DC	O3'-P-O5'	-11.20	87.21	104.00
11	AB	4702	DG	P-O3'-C3'	-11.20	103.41	120.20
11	AB	4906	DT	O3'-P-O5'	-11.20	87.20	104.00
11	AB	6211	DG	P-O3'-C3'	-11.20	103.40	120.20
11	AB	6294	DT	O3'-P-O5'	-11.20	87.20	104.00
11	AB	6354	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	6886	DC	O3'-P-O5'	-11.20	87.20	104.00
11	AB	7138	DC	O3'-P-O5'	-11.20	87.20	104.00
37	D1	36	DG	P-O3'-C3'	-11.20	103.41	120.20
58	ED	7	DG	P-O3'-C3'	-11.20	103.41	120.20
62	F5	19	DC	O3'-P-O5'	-11.20	87.20	104.00
76	G8	7	DG	P-O3'-C3'	-11.20	103.40	120.20
94	I3	48	DC	O3'-P-O5'	-11.20	87.20	104.00
150	N7	22	DG	P-O3'-C3'	-11.20	103.40	120.20
156	O2	29	DG	P-O3'-C3'	-11.20	103.40	120.20
167	P3	27	DT	O3'-P-O5'	-11.20	87.20	104.00
170	P7	19	DT	O3'-P-O5'	-11.20	87.20	104.00
196	S5	13	DG	P-O3'-C3'	-11.20	103.41	120.20
197	S7	20	DC	O3'-P-O5'	-11.20	87.20	104.00
199	S9	11	DC	O3'-P-O5'	-11.20	87.20	104.00
4	A4	12	DC	O3'-P-O5'	-11.19	87.21	104.00
11	AB	558	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	1053	DG	P-O3'-C3'	-11.20	103.41	120.20
11	AB	1347	DG	P-O3'-C3'	-11.20	103.41	120.20
11	AB	1465	DC	O3'-P-O5'	-11.20	87.21	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
217	U9	21	DG	P-O3'-C3'	-11.20	103.41	120.20
11	AB	1706	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	1770	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	2311	DG	P-O3'-C3'	-11.20	103.41	120.20
11	AB	3022	DG	P-O3'-C3'	-11.20	103.41	120.20
11	AB	3414	DG	P-O3'-C3'	-11.20	103.41	120.20
11	AB	3428	DT	O3'-P-O5'	-11.20	87.21	104.00
11	AB	3775	DG	P-O3'-C3'	-11.20	103.41	120.20
11	AB	4074	DG	P-O3'-C3'	-11.20	103.41	120.20
11	AB	4711	DG	P-O3'-C3'	-11.20	103.41	120.20
11	AB	3975	DC	O3'-P-O5'	-11.19	87.21	104.00
11	AB	4141	DG	P-O3'-C3'	-11.20	103.41	120.20
11	AB	4260	DC	O3'-P-O5'	-11.20	87.21	104.00
11	AB	4324	DC	O3'-P-O5'	-11.20	87.21	104.00
11	AB	5260	DG	P-O3'-C3'	-11.20	103.41	120.20
11	AB	7172	DC	O3'-P-O5'	-11.20	87.21	104.00
71	G2	5	DC	O3'-P-O5'	-11.20	87.21	104.00
88	H9	11	DG	P-O3'-C3'	-11.20	103.41	120.20
115	K2	20	DG	P-O3'-C3'	-11.20	103.41	120.20
134	LC	21	DC	O3'-P-O5'	-11.20	87.21	104.00
147	N3	20	DG	P-O3'-C3'	-11.20	103.41	120.20
160	O7	20	DC	O3'-P-O5'	-11.20	87.21	104.00
11	AB	4472	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	5154	DC	O3'-P-O5'	-11.19	87.21	104.00
11	AB	5525	DC	O3'-P-O5'	-11.20	87.21	104.00
11	AB	5701	DC	O3'-P-O5'	-11.20	87.21	104.00
166	P2	32	DC	O3'-P-O5'	-11.20	87.20	104.00
190	R9	16	DT	O3'-P-O5'	-11.20	87.21	104.00
11	AB	5681	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	5907	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	5969	DT	O3'-P-O5'	-11.20	87.21	104.00
11	AB	6024	DG	P-O3'-C3'	-11.20	103.41	120.20
11	AB	6613	DC	O3'-P-O5'	-11.19	87.21	104.00
11	AB	7072	DG	P-O3'-C3'	-11.20	103.41	120.20
58	ED	21	DG	P-O3'-C3'	-11.20	103.41	120.20
72	G3	14	DG	P-O3'-C3'	-11.20	103.41	120.20
11	AB	7160	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	7241	DG	P-O3'-C3'	-11.19	103.41	120.20
23	BA	8	DC	O3'-P-O5'	-11.20	87.21	104.00
28	C3	9	DT	O3'-P-O5'	-11.20	87.21	104.00
74	G6	29	DG	P-O3'-C3'	-11.20	103.41	120.20
84	H5	21	DC	O3'-P-O5'	-11.20	87.21	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
139	M6	23	DC	O3'-P-O5'	-11.20	87.21	104.00
145	MD	41	DC	O3'-P-O5'	-11.20	87.21	104.00
90	HC	8	DG	P-O3'-C3'	-11.19	103.41	120.20
104	J2	26	DG	P-O3'-C3'	-11.20	103.41	120.20
110	J9	20	DG	P-O3'-C3'	-11.20	103.41	120.20
117	K5	21	DC	O3'-P-O5'	-11.20	87.20	104.00
109	J8	12	DG	P-O3'-C3'	-11.19	103.41	120.20
119	K7	39	DG	P-O3'-C3'	-11.19	103.41	120.20
139	M6	4	DG	P-O3'-C3'	-11.19	103.41	120.20
140	M7	16	DG	P-O3'-C3'	-11.20	103.41	120.20
196	S5	16	DC	O3'-P-O5'	-11.20	87.21	104.00
167	P3	29	DG	P-O3'-C3'	-11.19	103.41	120.20
173	PA	10	DC	O3'-P-O5'	-11.19	87.21	104.00
182	QA	12	DT	O3'-P-O5'	-11.19	87.21	104.00
206	T7	9	DG	P-O3'-C3'	-11.20	103.41	120.20
209	TA	16	DG	P-O3'-C3'	-11.20	103.41	120.20
217	U9	11	DG	P-O3'-C3'	-11.20	103.41	120.20
232	W7	19	DG	P-O3'-C3'	-11.20	103.41	120.20
2	A2	13	DC	O3'-P-O5'	-11.19	87.21	104.00
11	AB	90	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	477	DT	O3'-P-O5'	-11.19	87.21	104.00
11	AB	1284	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	3424	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	4105	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	4303	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	4937	DC	O3'-P-O5'	-11.19	87.21	104.00
11	AB	5058	DG	P-O3'-C3'	-11.19	103.41	120.20
44	D9	28	DC	O3'-P-O5'	-11.19	87.21	104.00
5	A5	23	DG	P-O3'-C3'	-11.19	103.41	120.20
6	A6	29	DC	O3'-P-O5'	-11.19	87.21	104.00
11	AB	95	DT	O3'-P-O5'	-11.19	87.21	104.00
11	AB	321	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	752	DT	O3'-P-O5'	-11.19	87.21	104.00
85	H6	21	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	883	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	1146	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	1175	DC	O3'-P-O5'	-11.19	87.21	104.00
11	AB	2169	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	2617	DC	O3'-P-O5'	-11.19	87.21	104.00
11	AB	3568	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	4402	DT	O3'-P-O5'	-11.19	87.21	104.00
11	AB	4908	DC	O3'-P-O5'	-11.19	87.21	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3607	DC	O3'-P-O5'	-11.19	87.21	104.00
11	AB	4088	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	4493	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	4540	DC	O3'-P-O5'	-11.19	87.21	104.00
11	AB	4515	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	4625	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	4839	DC	O3'-P-O5'	-11.19	87.21	104.00
11	AB	5010	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	4846	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	5050	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	5254	DC	O3'-P-O5'	-11.19	87.21	104.00
11	AB	5849	DC	O3'-P-O5'	-11.19	87.21	104.00
11	AB	6631	DC	O3'-P-O5'	-11.19	87.21	104.00
39	D3	8	DC	O3'-P-O5'	-11.19	87.21	104.00
54	E8	7	DT	O3'-P-O5'	-11.19	87.21	104.00
11	AB	7145	DG	P-O3'-C3'	-11.19	103.41	120.20
22	B9	4	DG	P-O3'-C3'	-11.19	103.41	120.20
32	C8	8	DG	P-O3'-C3'	-11.19	103.41	120.20
37	D1	9	DC	O3'-P-O5'	-11.19	87.21	104.00
45	DA	18	DC	O3'-P-O5'	-11.19	87.21	104.00
46	DC	8	DG	P-O3'-C3'	-11.19	103.41	120.20
51	E5	25	DG	P-O3'-C3'	-11.19	103.41	120.20
103	J1	24	DG	P-O3'-C3'	-11.19	103.41	120.20
53	E7	11	DG	P-O3'-C3'	-11.19	103.41	120.20
57	EC	15	DC	O3'-P-O5'	-11.19	87.21	104.00
59	F1	9	DC	O3'-P-O5'	-11.19	87.21	104.00
64	F7	8	DT	O3'-P-O5'	-11.19	87.21	104.00
64	F7	28	DT	O3'-P-O5'	-11.19	87.21	104.00
84	H5	35	DC	O3'-P-O5'	-11.19	87.21	104.00
99	I9	21	DG	P-O3'-C3'	-11.19	103.41	120.20
99	I9	25	DG	P-O3'-C3'	-11.19	103.41	120.20
117	K5	19	DC	O3'-P-O5'	-11.19	87.21	104.00
118	K6	9	DG	P-O3'-C3'	-11.19	103.41	120.20
120	K8	6	DG	P-O3'-C3'	-11.19	103.41	120.20
122	KA	13	DG	P-O3'-C3'	-11.19	103.41	120.20
166	P2	31	DC	O3'-P-O5'	-11.19	87.21	104.00
124	KD	6	DG	P-O3'-C3'	-11.19	103.41	120.20
128	L5	10	DG	P-O3'-C3'	-11.19	103.41	120.20
134	LC	16	DG	P-O3'-C3'	-11.19	103.41	120.20
143	MA	26	DC	O3'-P-O5'	-11.19	87.21	104.00
145	MD	13	DG	P-O3'-C3'	-11.19	103.41	120.20
164	OC	12	DC	O3'-P-O5'	-11.19	87.21	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
186	R3	19	DG	P-O3'-C3'	-11.19	103.41	120.20
199	S9	10	DG	P-O3'-C3'	-11.19	103.41	120.20
219	UC	19	DT	O3'-P-O5'	-11.19	87.21	104.00
224	V7	5	DC	O3'-P-O5'	-11.19	87.21	104.00
236	X5	6	DC	O3'-P-O5'	-11.19	87.21	104.00
2	A2	29	DT	O3'-P-O5'	-11.19	87.22	104.00
6	A6	28	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	117	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	509	DT	O3'-P-O5'	-11.19	87.21	104.00
11	AB	590	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	830	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	1095	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	1429	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	1613	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	1898	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	2184	DG	P-O3'-C3'	-11.19	103.42	120.20
50	E3	2	DG	P-O3'-C3'	-11.19	103.42	120.20
186	R3	11	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	1667	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	2538	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	2654	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	2668	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	2902	DT	O3'-P-O5'	-11.19	87.22	104.00
11	AB	3062	DT	O3'-P-O5'	-11.19	87.22	104.00
11	AB	3378	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	3442	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	3697	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	3953	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	4145	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	6117	DC	O3'-P-O5'	-11.19	87.22	104.00
126	L2	42	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	3729	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	3917	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	4510	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	4597	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	4654	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	4672	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	4943	DG	P-O3'-C3'	-11.19	103.41	120.20
11	AB	5045	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	4971	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	4986	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	5215	DG	P-O3'-C3'	-11.19	103.42	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5594	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	5895	DT	O3'-P-O5'	-11.19	87.22	104.00
11	AB	6216	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	6694	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	7206	DC	O3'-P-O5'	-11.19	87.22	104.00
41	D6	19	DG	P-O3'-C3'	-11.19	103.42	120.20
41	D6	44	DC	O3'-P-O5'	-11.19	87.22	104.00
63	F6	9	DG	P-O3'-C3'	-11.19	103.41	120.20
69	FD	16	DC	O3'-P-O5'	-11.19	87.21	104.00
70	G1	14	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	6554	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	7012	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	7165	DC	O3'-P-O5'	-11.19	87.22	104.00
13	AD	43	DG	P-O3'-C3'	-11.19	103.42	120.20
54	E8	9	DT	O3'-P-O5'	-11.19	87.22	104.00
61	F3	15	DG	P-O3'-C3'	-11.19	103.42	120.20
63	F6	11	DG	P-O3'-C3'	-11.19	103.42	120.20
65	F8	11	DG	P-O3'-C3'	-11.19	103.42	120.20
82	H2	19	DC	O3'-P-O5'	-11.19	87.22	104.00
106	J5	30	DG	P-O3'-C3'	-11.19	103.42	120.20
113	JD	30	DG	P-O3'-C3'	-11.19	103.42	120.20
136	M2	18	DG	P-O3'-C3'	-11.19	103.41	120.20
223	V5	10	DG	P-O3'-C3'	-11.19	103.42	120.20
84	H5	22	DC	O3'-P-O5'	-11.19	87.22	104.00
90	HC	13	DC	O3'-P-O5'	-11.19	87.22	104.00
117	K5	22	DC	O3'-P-O5'	-11.19	87.22	104.00
118	K6	15	DC	O3'-P-O5'	-11.19	87.22	104.00
130	L7	18	DT	O3'-P-O5'	-11.19	87.22	104.00
143	MA	45	DG	P-O3'-C3'	-11.19	103.42	120.20
151	N8	15	DG	P-O3'-C3'	-11.19	103.42	120.20
151	N8	16	DC	O3'-P-O5'	-11.19	87.22	104.00
152	N9	26	DG	P-O3'-C3'	-11.19	103.42	120.20
180	Q8	10	DG	P-O3'-C3'	-11.19	103.42	120.20
190	R9	3	DT	O3'-P-O5'	-11.19	87.22	104.00
190	R9	29	DC	O3'-P-O5'	-11.19	87.22	104.00
204	T3	6	DC	O3'-P-O5'	-11.19	87.22	104.00
205	T5	17	DC	O3'-P-O5'	-11.19	87.21	104.00
236	X5	17	DC	O3'-P-O5'	-11.19	87.21	104.00
204	T3	8	DC	O3'-P-O5'	-11.19	87.22	104.00
205	T5	16	DC	O3'-P-O5'	-11.19	87.22	104.00
214	U5	9	DC	O3'-P-O5'	-11.19	87.22	104.00
219	UC	24	DC	O3'-P-O5'	-11.19	87.22	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
238	X9	53	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	516	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	715	DT	O3'-P-O5'	-11.19	87.22	104.00
11	AB	727	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	768	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	1248	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	1395	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	2413	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	2910	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	4064	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	4532	DG	P-O3'-C3'	-11.19	103.42	120.20
159	O6	8	DC	O3'-P-O5'	-11.19	87.22	104.00
192	RC	34	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	766	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	1131	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	1474	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	1923	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	2054	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	3555	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	4219	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	4390	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	4920	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	4936	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	4981	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	5702	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	5591	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	5866	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	6042	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	7190	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	6058	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	6298	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	6337	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	6693	DG	P-O3'-C3'	-11.19	103.42	120.20
11	AB	6826	DC	O3'-P-O5'	-11.19	87.22	104.00
11	AB	7208	DG	P-O3'-C3'	-11.19	103.42	120.20
17	B4	12	DC	O3'-P-O5'	-11.19	87.22	104.00
23	BA	17	DG	P-O3'-C3'	-11.19	103.42	120.20
26	C1	2	DC	O3'-P-O5'	-11.19	87.22	104.00
46	DC	16	DG	P-O3'-C3'	-11.19	103.42	120.20
56	EA	21	DC	O3'-P-O5'	-11.19	87.22	104.00
60	F2	12	DG	P-O3'-C3'	-11.19	103.42	120.20
99	I9	17	DG	P-O3'-C3'	-11.19	103.42	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
221	V2	19	DC	O3'-P-O5'	-11.19	87.22	104.00
65	F8	3	DG	P-O3'-C3'	-11.19	103.42	120.20
94	I3	37	DG	P-O3'-C3'	-11.19	103.42	120.20
100	IA	8	DC	O3'-P-O5'	-11.19	87.22	104.00
114	K1	3	DT	O3'-P-O5'	-11.19	87.22	104.00
119	K7	17	DC	O3'-P-O5'	-11.19	87.22	104.00
178	Q5	3	DC	O3'-P-O5'	-11.19	87.22	104.00
140	M7	13	DG	P-O3'-C3'	-11.19	103.42	120.20
143	MA	43	DG	P-O3'-C3'	-11.19	103.42	120.20
183	QC	21	DG	P-O3'-C3'	-11.19	103.42	120.20
191	RA	13	DC	O3'-P-O5'	-11.19	87.22	104.00
197	S7	7	DC	O3'-P-O5'	-11.19	87.22	104.00
201	SC	5	DG	P-O3'-C3'	-11.19	103.42	120.20
228	VC	29	DG	P-O3'-C3'	-11.19	103.42	120.20
236	X5	5	DG	P-O3'-C3'	-11.19	103.42	120.20
1	A1	20	DC	O3'-P-O5'	-11.18	87.22	104.00
11	AB	967	DC	O3'-P-O5'	-11.18	87.22	104.00
11	AB	3168	DG	P-O3'-C3'	-11.18	103.42	120.20
11	AB	4928	DG	P-O3'-C3'	-11.18	103.42	120.20
11	AB	5620	DC	O3'-P-O5'	-11.18	87.22	104.00
154	NC	26	DG	P-O3'-C3'	-11.18	103.42	120.20
11	AB	127	DC	O3'-P-O5'	-11.18	87.23	104.00
11	AB	852	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	1011	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	1848	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	1855	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	3106	DC	O3'-P-O5'	-11.18	87.22	104.00
11	AB	3370	DC	O3'-P-O5'	-11.18	87.22	104.00
11	AB	3479	DT	O3'-P-O5'	-11.18	87.22	104.00
11	AB	3803	DC	O3'-P-O5'	-11.18	87.23	104.00
11	AB	4139	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	4489	DG	P-O3'-C3'	-11.18	103.42	120.20
11	AB	4574	DG	P-O3'-C3'	-11.18	103.42	120.20
11	AB	4629	DG	P-O3'-C3'	-11.18	103.42	120.20
11	AB	5113	DG	P-O3'-C3'	-11.18	103.42	120.20
11	AB	6526	DC	O3'-P-O5'	-11.18	87.22	104.00
11	AB	6704	DT	O3'-P-O5'	-11.18	87.22	104.00
187	R5	41	DC	O3'-P-O5'	-11.18	87.22	104.00
11	AB	5101	DC	O3'-P-O5'	-11.18	87.23	104.00
11	AB	5946	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	5967	DT	O3'-P-O5'	-11.18	87.23	104.00
11	AB	6047	DT	O3'-P-O5'	-11.18	87.23	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	AC	18	DG	P-O3'-C3'	-11.18	103.42	120.20
24	BC	9	DC	O3'-P-O5'	-11.18	87.23	104.00
27	C2	11	DC	O3'-P-O5'	-11.18	87.23	104.00
38	D2	11	DG	P-O3'-C3'	-11.18	103.43	120.20
45	DA	14	DG	P-O3'-C3'	-11.18	103.42	120.20
47	DD	29	DG	P-O3'-C3'	-11.18	103.43	120.20
52	E6	17	DC	O3'-P-O5'	-11.18	87.23	104.00
52	E6	22	DC	O3'-P-O5'	-11.18	87.23	104.00
60	F2	5	DG	P-O3'-C3'	-11.18	103.42	120.20
75	G7	26	DG	P-O3'-C3'	-11.18	103.42	120.20
82	H2	39	DC	O3'-P-O5'	-11.18	87.23	104.00
97	I7	31	DG	P-O3'-C3'	-11.18	103.42	120.20
160	O7	1	DG	P-O3'-C3'	-11.18	103.42	120.20
108	J7	50	DC	O3'-P-O5'	-11.18	87.23	104.00
112	JC	12	DG	P-O3'-C3'	-11.18	103.43	120.20
117	K5	40	DG	P-O3'-C3'	-11.18	103.42	120.20
144	MC	6	DG	P-O3'-C3'	-11.18	103.43	120.20
160	O7	29	DC	O3'-P-O5'	-11.18	87.23	104.00
169	P6	10	DG	P-O3'-C3'	-11.18	103.42	120.20
185	R2	15	DG	P-O3'-C3'	-11.18	103.42	120.20
205	T5	2	DG	P-O3'-C3'	-11.18	103.42	120.20
164	OC	23	DC	O3'-P-O5'	-11.18	87.23	104.00
209	TA	27	DG	P-O3'-C3'	-11.18	103.43	120.20
217	U9	7	DG	P-O3'-C3'	-11.18	103.43	120.20
231	W5	13	DG	P-O3'-C3'	-11.18	103.43	120.20
238	X9	4	DG	P-O3'-C3'	-11.18	103.42	120.20
2	A2	12	DC	O3'-P-O5'	-11.18	87.23	104.00
11	AB	44	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	726	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	886	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	1406	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	4538	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	1430	DC	O3'-P-O5'	-11.18	87.23	104.00
11	AB	1472	DT	O3'-P-O5'	-11.18	87.23	104.00
11	AB	2435	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	2436	DC	O3'-P-O5'	-11.18	87.23	104.00
11	AB	3052	DC	O3'-P-O5'	-11.18	87.23	104.00
11	AB	4127	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	4909	DC	O3'-P-O5'	-11.18	87.23	104.00
11	AB	5051	DC	O3'-P-O5'	-11.18	87.23	104.00
11	AB	6492	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	6646	DG	P-O3'-C3'	-11.18	103.43	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
68	FC	5	DG	P-O3'-C3'	-11.18	103.43	120.20
101	IC	19	DG	P-O3'-C3'	-11.18	103.43	120.20
119	K7	27	DG	P-O3'-C3'	-11.18	103.43	120.20
214	U5	17	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	4466	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	4951	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	5135	DC	O3'-P-O5'	-11.18	87.23	104.00
11	AB	7235	DG	P-O3'-C3'	-11.18	103.43	120.20
108	J7	15	DC	O3'-P-O5'	-11.18	87.23	104.00
175	PD	10	DC	O3'-P-O5'	-11.18	87.23	104.00
232	W7	14	DT	O3'-P-O5'	-11.18	87.23	104.00
11	AB	5641	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	6571	DC	O3'-P-O5'	-11.18	87.23	104.00
30	C6	25	DG	P-O3'-C3'	-11.18	103.43	120.20
35	CC	31	DG	P-O3'-C3'	-11.18	103.43	120.20
54	E8	5	DG	P-O3'-C3'	-11.18	103.43	120.20
60	F2	6	DC	O3'-P-O5'	-11.18	87.23	104.00
60	F2	22	DG	P-O3'-C3'	-11.18	103.43	120.20
66	F9	7	DG	P-O3'-C3'	-11.18	103.43	120.20
125	L1	36	DC	O3'-P-O5'	-11.18	87.23	104.00
129	L6	10	DT	O3'-P-O5'	-11.18	87.23	104.00
174	PC	26	DG	P-O3'-C3'	-11.18	103.43	120.20
161	O8	54	DC	O3'-P-O5'	-11.18	87.23	104.00
170	P7	12	DG	P-O3'-C3'	-11.18	103.43	120.20
192	RC	35	DC	O3'-P-O5'	-11.18	87.23	104.00
220	UD	19	DG	P-O3'-C3'	-11.18	103.43	120.20
223	V5	25	DC	O3'-P-O5'	-11.18	87.23	104.00
232	W7	17	DC	O3'-P-O5'	-11.18	87.23	104.00
11	AB	1026	DG	P-O3'-C3'	-11.18	103.44	120.20
11	AB	1269	DC	O3'-P-O5'	-11.18	87.23	104.00
11	AB	1922	DG	P-O3'-C3'	-11.18	103.43	120.20
109	J8	42	DG	P-O3'-C3'	-11.18	103.43	120.20
1	A1	10	DC	O3'-P-O5'	-11.18	87.24	104.00
11	AB	943	DG	P-O3'-C3'	-11.18	103.44	120.20
11	AB	1916	DT	O3'-P-O5'	-11.18	87.24	104.00
11	AB	3105	DG	P-O3'-C3'	-11.18	103.44	120.20
11	AB	3142	DG	P-O3'-C3'	-11.18	103.43	120.20
227	VA	22	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	4865	DG	P-O3'-C3'	-11.18	103.44	120.20
11	AB	5198	DC	O3'-P-O5'	-11.18	87.24	104.00
11	AB	5695	DG	P-O3'-C3'	-11.18	103.44	120.20
11	AB	5704	DG	P-O3'-C3'	-11.18	103.44	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	C8	47	DG	P-O3'-C3'	-11.18	103.43	120.20
11	AB	5901	DC	O3'-P-O5'	-11.18	87.24	104.00
11	AB	6130	DG	P-O3'-C3'	-11.18	103.44	120.20
11	AB	6168	DG	P-O3'-C3'	-11.18	103.44	120.20
37	D1	32	DC	O3'-P-O5'	-11.18	87.24	104.00
41	D6	5	DG	P-O3'-C3'	-11.18	103.44	120.20
73	G5	1	DC	O3'-P-O5'	-11.18	87.24	104.00
173	PA	28	DC	O3'-P-O5'	-11.18	87.23	104.00
180	Q8	11	DC	O3'-P-O5'	-11.18	87.23	104.00
204	T3	1	DG	P-O3'-C3'	-11.18	103.43	120.20
204	T3	20	DG	P-O3'-C3'	-11.18	103.44	120.20
223	V5	22	DG	P-O3'-C3'	-11.18	103.43	120.20
156	O2	48	DC	O3'-P-O5'	-11.18	87.24	104.00
11	AB	236	DC	O3'-P-O5'	-11.17	87.24	104.00
4	A4	13	DC	O3'-P-O5'	-11.17	87.24	104.00
11	AB	468	DC	O3'-P-O5'	-11.17	87.24	104.00
11	AB	626	DC	O3'-P-O5'	-11.17	87.24	104.00
11	AB	901	DG	P-O3'-C3'	-11.17	103.44	120.20
11	AB	1226	DC	O3'-P-O5'	-11.17	87.24	104.00
11	AB	2178	DG	P-O3'-C3'	-11.17	103.44	120.20
11	AB	2729	DG	P-O3'-C3'	-11.17	103.44	120.20
11	AB	2983	DC	O3'-P-O5'	-11.17	87.24	104.00
11	AB	4259	DC	O3'-P-O5'	-11.17	87.24	104.00
11	AB	4689	DG	P-O3'-C3'	-11.17	103.44	120.20
11	AB	6964	DG	P-O3'-C3'	-11.17	103.44	120.20
37	D1	31	DG	P-O3'-C3'	-11.17	103.44	120.20
56	EA	20	DG	P-O3'-C3'	-11.17	103.44	120.20
159	O6	5	DG	P-O3'-C3'	-11.17	103.44	120.20
186	R3	6	DG	P-O3'-C3'	-11.17	103.44	120.20
188	R7	29	DG	P-O3'-C3'	-11.17	103.44	120.20
195	S3	5	DG	P-O3'-C3'	-11.17	103.44	120.20
233	W8	18	DG	P-O3'-C3'	-11.17	103.44	120.20
11	AB	1703	DG	P-O3'-C3'	-11.17	103.44	120.20
11	AB	2567	DT	O3'-P-O5'	-11.17	87.24	104.00
11	AB	3871	DG	P-O3'-C3'	-11.17	103.44	120.20
43	D8	25	DG	P-O3'-C3'	-11.17	103.44	120.20
90	HC	15	DG	P-O3'-C3'	-11.17	103.44	120.20
195	S3	7	DG	P-O3'-C3'	-11.17	103.44	120.20
2	A2	11	DG	P-O3'-C3'	-11.17	103.45	120.20
11	AB	14	DG	P-O3'-C3'	-11.17	103.45	120.20
11	AB	499	DG	P-O3'-C3'	-11.17	103.45	120.20
11	AB	2927	DT	O3'-P-O5'	-11.17	87.25	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3214	DG	P-O3'-C3'	-11.17	103.44	120.20
11	AB	4131	DG	P-O3'-C3'	-11.17	103.44	120.20
11	AB	4539	DC	O3'-P-O5'	-11.17	87.24	104.00
11	AB	6050	DG	P-O3'-C3'	-11.17	103.44	120.20
115	K2	9	DG	P-O3'-C3'	-11.17	103.44	120.20
11	AB	4176	DC	O3'-P-O5'	-11.17	87.25	104.00
11	AB	5991	DC	O3'-P-O5'	-11.17	87.25	104.00
11	AB	6154	DG	P-O3'-C3'	-11.17	103.45	120.20
11	AB	6400	DG	P-O3'-C3'	-11.17	103.45	120.20
38	D2	12	DC	O3'-P-O5'	-11.17	87.25	104.00
49	E2	4	DG	P-O3'-C3'	-11.17	103.45	120.20
55	E9	22	DG	P-O3'-C3'	-11.17	103.45	120.20
238	X9	43	DC	O3'-P-O5'	-11.17	87.25	104.00
5	A5	30	DC	O3'-P-O5'	-11.17	87.25	104.00
86	H7	21	DG	P-O3'-C3'	-11.17	103.45	120.20
11	AB	1182	DG	P-O3'-C3'	-11.17	103.45	120.20
11	AB	1559	DG	P-O3'-C3'	-11.17	103.45	120.20
11	AB	1892	DC	O3'-P-O5'	-11.17	87.25	104.00
11	AB	4705	DC	O3'-P-O5'	-11.17	87.25	104.00
11	AB	5534	DG	P-O3'-C3'	-11.17	103.45	120.20
52	E6	16	DG	P-O3'-C3'	-11.17	103.45	120.20
99	I9	10	DG	P-O3'-C3'	-11.17	103.45	120.20
88	H9	27	DG	P-O3'-C3'	-11.17	103.45	120.20
139	M6	17	DC	O3'-P-O5'	-11.17	87.25	104.00
163	OA	2	DG	P-O3'-C3'	-11.17	103.45	120.20
164	OC	14	DG	P-O3'-C3'	-11.17	103.45	120.20
165	OD	55	DG	P-O3'-C3'	-11.17	103.45	120.20
222	V3	10	DG	P-O3'-C3'	-11.17	103.45	120.20
2	A2	3	DG	P-O3'-C3'	-11.16	103.45	120.20
11	AB	862	DG	P-O3'-C3'	-11.16	103.45	120.20
11	AB	1282	DG	P-O3'-C3'	-11.16	103.45	120.20
11	AB	1883	DG	P-O3'-C3'	-11.16	103.45	120.20
11	AB	2674	DG	P-O3'-C3'	-11.16	103.45	120.20
11	AB	3076	DC	O3'-P-O5'	-11.16	87.25	104.00
11	AB	3269	DC	O3'-P-O5'	-11.16	87.25	104.00
11	AB	5323	DG	P-O3'-C3'	-11.16	103.45	120.20
11	AB	1896	DC	O3'-P-O5'	-11.16	87.25	104.00
11	AB	4944	DC	O3'-P-O5'	-11.16	87.25	104.00
27	C2	20	DG	P-O3'-C3'	-11.16	103.45	120.20
109	J8	40	DG	P-O3'-C3'	-11.16	103.45	120.20
11	AB	4323	DC	O3'-P-O5'	-11.16	87.26	104.00
11	AB	6406	DG	P-O3'-C3'	-11.16	103.45	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6413	DG	P-O3'-C3'	-11.16	103.46	120.20
11	AB	6695	DC	O3'-P-O5'	-11.16	87.26	104.00
18	B5	3	DG	P-O3'-C3'	-11.16	103.46	120.20
147	N3	25	DG	P-O3'-C3'	-11.16	103.46	120.20
164	OC	11	DG	P-O3'-C3'	-11.16	103.46	120.20
169	P6	18	DG	P-O3'-C3'	-11.16	103.46	120.20
10	AA	17	DG	P-O3'-C3'	-11.16	103.46	120.20
11	AB	784	DT	O3'-P-O5'	-11.16	87.26	104.00
11	AB	3293	DG	P-O3'-C3'	-11.16	103.46	120.20
11	AB	4083	DG	P-O3'-C3'	-11.16	103.46	120.20
123	KC	19	DG	P-O3'-C3'	-11.16	103.46	120.20
187	R5	10	DG	P-O3'-C3'	-11.16	103.46	120.20
191	RA	9	DG	P-O3'-C3'	-11.16	103.46	120.20
11	AB	5497	DG	P-O3'-C3'	-11.16	103.46	120.20
6	A6	16	DC	O3'-P-O5'	-11.16	87.27	104.00
11	AB	2713	DG	P-O3'-C3'	-11.16	103.47	120.20
11	AB	4340	DC	O3'-P-O5'	-11.16	87.27	104.00
11	AB	4590	DG	P-O3'-C3'	-11.16	103.47	120.20
11	AB	6907	DG	P-O3'-C3'	-11.16	103.46	120.20
151	N8	20	DG	P-O3'-C3'	-11.16	103.47	120.20
11	AB	4118	DG	P-O3'-C3'	-11.15	103.47	120.20
42	D7	19	DG	P-O3'-C3'	-11.15	103.47	120.20
11	AB	4854	DG	P-O3'-C3'	-11.15	103.47	120.20
11	AB	6218	DG	P-O3'-C3'	-11.15	103.47	120.20
108	J7	20	DG	P-O3'-C3'	-11.15	103.47	120.20
139	M6	19	DG	P-O3'-C3'	-11.15	103.47	120.20
11	AB	856	DG	P-O3'-C3'	-11.15	103.47	120.20
11	AB	5134	DG	P-O3'-C3'	-11.15	103.47	120.20
145	MD	39	DC	O3'-P-O5'	-11.15	87.28	104.00
11	AB	1669	DG	P-O3'-C3'	-11.15	103.48	120.20
11	AB	7177	DG	P-O3'-C3'	-11.15	103.48	120.20
11	AB	3224	DT	O3'-P-O5'	-11.14	87.29	104.00
11	AB	4576	DC	O3'-P-O5'	-11.14	87.29	104.00
11	AB	5672	DT	O3'-P-O5'	-11.14	87.29	104.00
18	B5	8	DG	P-O3'-C3'	-11.14	103.49	120.20
94	I3	20	DG	P-O3'-C3'	-11.14	103.49	120.20
11	AB	4170	DT	O3'-P-O5'	-11.14	87.30	104.00
11	AB	3245	DT	O3'-P-O5'	-11.13	87.31	104.00
11	AB	5664	DT	O3'-P-O5'	-11.13	87.31	104.00
11	AB	5852	DC	O3'-P-O5'	-11.12	87.31	104.00
11	AB	485	DT	O3'-P-O5'	-11.12	87.32	104.00
11	AB	685	DC	O3'-P-O5'	-11.12	87.32	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2531	DT	O3'-P-O5'	-11.11	87.33	104.00
11	AB	4030	DT	O3'-P-O5'	-11.11	87.34	104.00
11	AB	4241	DG	P-O3'-C3'	-11.09	103.56	120.20
11	AB	390	DG	P-O3'-C3'	-11.08	103.57	120.20
11	AB	3319	DC	O3'-P-O5'	-11.08	87.38	104.00
11	AB	5136	DC	O3'-P-O5'	-11.06	87.41	104.00
11	AB	526	DG	P-O3'-C3'	-11.06	103.61	120.20
11	AB	6223	DG	P-O3'-C3'	-11.03	103.66	120.20
11	AB	661	DG	P-O3'-C3'	-11.01	103.69	120.20
11	AB	5860	DG	P-O3'-C3'	-10.98	103.73	120.20
11	AB	4184	DG	P-O3'-C3'	-10.98	103.73	120.20
11	AB	6306	DG	O3'-P-O5'	-10.93	87.60	104.00
11	AB	3945	DG	O3'-P-O5'	-10.93	87.61	104.00
11	AB	5533	DG	O3'-P-O5'	-10.93	87.61	104.00
11	AB	6099	DG	O3'-P-O5'	-10.93	87.61	104.00
169	P6	9	DG	O3'-P-O5'	-10.93	87.61	104.00
11	AB	659	DG	O3'-P-O5'	-10.92	87.61	104.00
11	AB	6421	DG	O3'-P-O5'	-10.92	87.62	104.00
30	C6	43	DG	O3'-P-O5'	-10.92	87.62	104.00
11	AB	374	DG	O3'-P-O5'	-10.92	87.62	104.00
204	T3	4	DG	O3'-P-O5'	-10.92	87.62	104.00
11	AB	861	DG	O3'-P-O5'	-10.92	87.62	104.00
45	DA	13	DG	O3'-P-O5'	-10.92	87.63	104.00
11	AB	675	DG	O3'-P-O5'	-10.91	87.63	104.00
11	AB	1125	DG	O3'-P-O5'	-10.91	87.63	104.00
11	AB	1803	DG	O3'-P-O5'	-10.91	87.63	104.00
67	FA	31	DG	O3'-P-O5'	-10.91	87.63	104.00
144	MC	12	DG	O3'-P-O5'	-10.91	87.63	104.00
173	PA	3	DG	O3'-P-O5'	-10.91	87.63	104.00
11	AB	957	DG	O3'-P-O5'	-10.91	87.63	104.00
11	AB	4523	DG	O3'-P-O5'	-10.91	87.63	104.00
44	D9	17	DG	O3'-P-O5'	-10.91	87.63	104.00
113	JD	11	DG	O3'-P-O5'	-10.91	87.63	104.00
216	U8	18	DG	O3'-P-O5'	-10.91	87.63	104.00
199	S9	5	DG	O3'-P-O5'	-10.91	87.63	104.00
222	V3	24	DG	O3'-P-O5'	-10.91	87.63	104.00
11	AB	1572	DG	O3'-P-O5'	-10.91	87.63	104.00
11	AB	2591	DG	O3'-P-O5'	-10.91	87.64	104.00
91	HD	25	DG	O3'-P-O5'	-10.91	87.63	104.00
11	AB	3774	DG	O3'-P-O5'	-10.91	87.64	104.00
11	AB	2262	DG	O3'-P-O5'	-10.91	87.64	104.00
11	AB	3460	DG	O3'-P-O5'	-10.91	87.64	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1152	DG	O3'-P-O5'	-10.91	87.64	104.00
11	AB	3475	DG	O3'-P-O5'	-10.91	87.64	104.00
11	AB	3520	DG	O3'-P-O5'	-10.91	87.64	104.00
11	AB	7216	DG	O3'-P-O5'	-10.91	87.64	104.00
108	J7	34	DG	O3'-P-O5'	-10.91	87.64	104.00
206	T7	54	DG	O3'-P-O5'	-10.91	87.64	104.00
11	AB	373	DG	O3'-P-O5'	-10.90	87.64	104.00
11	AB	4087	DG	O3'-P-O5'	-10.90	87.64	104.00
125	L1	48	DG	O3'-P-O5'	-10.90	87.64	104.00
11	AB	6882	DG	O3'-P-O5'	-10.90	87.64	104.00
111	JA	12	DG	O3'-P-O5'	-10.90	87.64	104.00
119	K7	21	DG	O3'-P-O5'	-10.90	87.64	104.00
125	L1	6	DG	O3'-P-O5'	-10.90	87.64	104.00
160	O7	47	DG	O3'-P-O5'	-10.90	87.64	104.00
185	R2	19	DG	O3'-P-O5'	-10.90	87.64	104.00
11	AB	366	DG	O3'-P-O5'	-10.90	87.65	104.00
11	AB	641	DG	O3'-P-O5'	-10.90	87.65	104.00
11	AB	2344	DG	O3'-P-O5'	-10.90	87.65	104.00
11	AB	452	DG	O3'-P-O5'	-10.90	87.65	104.00
11	AB	4421	DG	O3'-P-O5'	-10.90	87.65	104.00
11	AB	6308	DG	O3'-P-O5'	-10.90	87.65	104.00
28	C3	20	DG	O3'-P-O5'	-10.90	87.65	104.00
36	CD	6	DG	O3'-P-O5'	-10.90	87.65	104.00
79	GC	3	DG	O3'-P-O5'	-10.90	87.65	104.00
135	LD	6	DG	O3'-P-O5'	-10.90	87.65	104.00
88	H9	30	DG	O3'-P-O5'	-10.90	87.65	104.00
144	MC	8	DG	O3'-P-O5'	-10.90	87.65	104.00
150	N7	14	DG	O3'-P-O5'	-10.90	87.65	104.00
188	R7	28	DG	O3'-P-O5'	-10.90	87.65	104.00
11	AB	945	DG	O3'-P-O5'	-10.90	87.65	104.00
11	AB	954	DG	O3'-P-O5'	-10.90	87.65	104.00
11	AB	3517	DG	O3'-P-O5'	-10.90	87.65	104.00
11	AB	4276	DG	O3'-P-O5'	-10.90	87.65	104.00
11	AB	6087	DG	O3'-P-O5'	-10.90	87.65	104.00
11	AB	6491	DG	O3'-P-O5'	-10.90	87.65	104.00
28	C3	19	DG	O3'-P-O5'	-10.90	87.65	104.00
77	G9	17	DG	O3'-P-O5'	-10.90	87.65	104.00
108	J7	30	DG	O3'-P-O5'	-10.90	87.65	104.00
5	A5	38	DG	O3'-P-O5'	-10.90	87.66	104.00
11	AB	265	DG	O3'-P-O5'	-10.90	87.66	104.00
11	AB	408	DG	O3'-P-O5'	-10.90	87.66	104.00
11	AB	938	DG	O3'-P-O5'	-10.90	87.66	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1977	DG	O3'-P-O5'	-10.90	87.66	104.00
11	AB	3778	DG	O3'-P-O5'	-10.90	87.66	104.00
11	AB	4437	DG	O3'-P-O5'	-10.90	87.66	104.00
11	AB	6963	DG	O3'-P-O5'	-10.90	87.66	104.00
51	E5	24	DG	O3'-P-O5'	-10.90	87.66	104.00
76	G8	19	DG	O3'-P-O5'	-10.90	87.66	104.00
156	O2	39	DG	O3'-P-O5'	-10.90	87.66	104.00
172	P9	19	DG	O3'-P-O5'	-10.90	87.66	104.00
11	AB	384	DG	O3'-P-O5'	-10.89	87.66	104.00
11	AB	414	DG	O3'-P-O5'	-10.89	87.66	104.00
11	AB	1143	DG	O3'-P-O5'	-10.89	87.66	104.00
11	AB	1978	DG	O3'-P-O5'	-10.89	87.66	104.00
11	AB	3781	DG	O3'-P-O5'	-10.89	87.66	104.00
11	AB	4524	DG	O3'-P-O5'	-10.89	87.66	104.00
11	AB	4950	DG	O3'-P-O5'	-10.89	87.66	104.00
11	AB	5694	DG	O3'-P-O5'	-10.89	87.66	104.00
11	AB	5388	DG	O3'-P-O5'	-10.89	87.66	104.00
11	AB	6942	DG	O3'-P-O5'	-10.89	87.66	104.00
66	F9	15	DG	O3'-P-O5'	-10.89	87.66	104.00
78	GA	2	DG	O3'-P-O5'	-10.89	87.66	104.00
79	GC	4	DG	O3'-P-O5'	-10.89	87.66	104.00
80	GD	12	DG	O3'-P-O5'	-10.89	87.66	104.00
103	J1	8	DG	O3'-P-O5'	-10.89	87.66	104.00
106	J5	6	DG	O3'-P-O5'	-10.89	87.66	104.00
144	MC	9	DG	O3'-P-O5'	-10.89	87.66	104.00
152	N9	2	DG	O3'-P-O5'	-10.89	87.66	104.00
147	N3	19	DG	O3'-P-O5'	-10.89	87.66	104.00
204	T3	17	DG	O3'-P-O5'	-10.89	87.66	104.00
217	U9	23	DG	O3'-P-O5'	-10.89	87.66	104.00
10	AA	26	DG	O3'-P-O5'	-10.89	87.66	104.00
11	AB	407	DG	O3'-P-O5'	-10.89	87.66	104.00
11	AB	411	DG	O3'-P-O5'	-10.89	87.66	104.00
11	AB	639	DG	O3'-P-O5'	-10.89	87.66	104.00
11	AB	963	DG	O3'-P-O5'	-10.89	87.66	104.00
11	AB	4759	DG	O3'-P-O5'	-10.89	87.66	104.00
11	AB	5390	DG	O3'-P-O5'	-10.89	87.66	104.00
88	H9	21	DG	O3'-P-O5'	-10.89	87.66	104.00
11	AB	1983	DG	O3'-P-O5'	-10.89	87.67	104.00
11	AB	2415	DG	O3'-P-O5'	-10.89	87.67	104.00
11	AB	3151	DG	O3'-P-O5'	-10.89	87.66	104.00
11	AB	6244	DG	O3'-P-O5'	-10.89	87.66	104.00
57	EC	9	DG	O3'-P-O5'	-10.89	87.66	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6345	DG	O3'-P-O5'	-10.89	87.67	104.00
57	EC	10	DG	O3'-P-O5'	-10.89	87.67	104.00
88	H9	20	DG	O3'-P-O5'	-10.89	87.66	104.00
151	N8	19	DG	O3'-P-O5'	-10.89	87.66	104.00
89	HA	24	DG	O3'-P-O5'	-10.89	87.67	104.00
95	I5	33	DG	O3'-P-O5'	-10.89	87.67	104.00
97	I7	25	DG	O3'-P-O5'	-10.89	87.66	104.00
125	L1	49	DG	O3'-P-O5'	-10.89	87.67	104.00
125	L1	53	DG	O3'-P-O5'	-10.89	87.67	104.00
167	P3	3	DG	O3'-P-O5'	-10.89	87.66	104.00
209	TA	5	DG	O3'-P-O5'	-10.89	87.66	104.00
11	AB	426	DG	O3'-P-O5'	-10.89	87.67	104.00
11	AB	939	DG	O3'-P-O5'	-10.89	87.67	104.00
11	AB	942	DG	O3'-P-O5'	-10.89	87.67	104.00
11	AB	1943	DG	O3'-P-O5'	-10.89	87.67	104.00
11	AB	2122	DG	O3'-P-O5'	-10.89	87.67	104.00
11	AB	3676	DG	O3'-P-O5'	-10.89	87.67	104.00
11	AB	4091	DG	O3'-P-O5'	-10.89	87.67	104.00
11	AB	4248	DG	O3'-P-O5'	-10.89	87.67	104.00
30	C6	36	DG	O3'-P-O5'	-10.89	87.67	104.00
57	EC	11	DG	O3'-P-O5'	-10.89	87.67	104.00
89	HA	12	DG	O3'-P-O5'	-10.89	87.67	104.00
99	I9	24	DG	O3'-P-O5'	-10.89	87.67	104.00
213	U3	5	DG	O3'-P-O5'	-10.89	87.67	104.00
11	AB	4295	DG	O3'-P-O5'	-10.89	87.67	104.00
11	AB	6123	DG	O3'-P-O5'	-10.89	87.67	104.00
11	AB	7083	DG	O3'-P-O5'	-10.89	87.67	104.00
37	D1	11	DG	O3'-P-O5'	-10.89	87.67	104.00
76	G8	18	DG	O3'-P-O5'	-10.89	87.67	104.00
178	Q5	29	DG	O3'-P-O5'	-10.89	87.67	104.00
228	VC	39	DG	O3'-P-O5'	-10.89	87.67	104.00
11	AB	581	DG	O3'-P-O5'	-10.89	87.67	104.00
11	AB	638	DG	O3'-P-O5'	-10.88	87.67	104.00
11	AB	816	DG	O3'-P-O5'	-10.89	87.67	104.00
11	AB	855	DG	O3'-P-O5'	-10.88	87.67	104.00
11	AB	1137	DG	O3'-P-O5'	-10.89	87.67	104.00
69	FD	8	DG	O3'-P-O5'	-10.89	87.67	104.00
11	AB	1089	DG	O3'-P-O5'	-10.88	87.67	104.00
11	AB	1526	DG	O3'-P-O5'	-10.88	87.67	104.00
11	AB	1851	DG	O3'-P-O5'	-10.88	87.67	104.00
11	AB	2118	DG	O3'-P-O5'	-10.88	87.67	104.00
11	AB	4226	DG	O3'-P-O5'	-10.89	87.67	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
150	N7	13	DG	O3'-P-O5'	-10.89	87.67	104.00
11	AB	2594	DG	O3'-P-O5'	-10.88	87.67	104.00
11	AB	3154	DG	O3'-P-O5'	-10.88	87.67	104.00
11	AB	3837	DG	O3'-P-O5'	-10.88	87.67	104.00
11	AB	4550	DG	O3'-P-O5'	-10.88	87.67	104.00
11	AB	4864	DG	O3'-P-O5'	-10.88	87.67	104.00
11	AB	5719	DG	O3'-P-O5'	-10.88	87.67	104.00
11	AB	6307	DG	O3'-P-O5'	-10.88	87.67	104.00
23	BA	33	DG	O3'-P-O5'	-10.88	87.67	104.00
77	G9	18	DG	O3'-P-O5'	-10.88	87.67	104.00
89	HA	11	DG	O3'-P-O5'	-10.88	87.67	104.00
92	I1	22	DG	O3'-P-O5'	-10.88	87.67	104.00
95	I5	11	DG	O3'-P-O5'	-10.88	87.67	104.00
95	I5	32	DG	O3'-P-O5'	-10.88	87.67	104.00
97	I7	24	DG	O3'-P-O5'	-10.88	87.67	104.00
116	K3	15	DG	O3'-P-O5'	-10.88	87.67	104.00
125	L1	54	DG	O3'-P-O5'	-10.88	87.67	104.00
204	T3	3	DG	O3'-P-O5'	-10.88	87.67	104.00
230	W3	38	DG	O3'-P-O5'	-10.88	87.67	104.00
11	AB	438	DG	O3'-P-O5'	-10.88	87.67	104.00
11	AB	385	DG	O3'-P-O5'	-10.88	87.68	104.00
11	AB	429	DG	O3'-P-O5'	-10.88	87.68	104.00
11	AB	1010	DG	O3'-P-O5'	-10.88	87.68	104.00
11	AB	2603	DG	O3'-P-O5'	-10.88	87.68	104.00
11	AB	3688	DG	O3'-P-O5'	-10.88	87.67	104.00
11	AB	4227	DG	O3'-P-O5'	-10.88	87.68	104.00
11	AB	4731	DG	O3'-P-O5'	-10.88	87.67	104.00
109	J8	33	DG	O3'-P-O5'	-10.88	87.68	104.00
154	NC	34	DG	O3'-P-O5'	-10.88	87.68	104.00
202	SD	14	DG	O3'-P-O5'	-10.88	87.67	104.00
217	U9	20	DG	O3'-P-O5'	-10.88	87.68	104.00
11	AB	2856	DG	O3'-P-O5'	-10.88	87.68	104.00
11	AB	5119	DG	P-O3'-C3'	-10.88	103.88	120.20
11	AB	5923	DG	O3'-P-O5'	-10.88	87.68	104.00
11	AB	7195	DG	O3'-P-O5'	-10.88	87.68	104.00
78	GA	12	DG	O3'-P-O5'	-10.88	87.68	104.00
86	H7	13	DG	O3'-P-O5'	-10.88	87.68	104.00
149	N6	49	DG	O3'-P-O5'	-10.88	87.68	104.00
160	O7	42	DG	O3'-P-O5'	-10.88	87.68	104.00
4	A4	10	DG	O3'-P-O5'	-10.88	87.68	104.00
11	AB	441	DG	O3'-P-O5'	-10.88	87.68	104.00
11	AB	1164	DG	O3'-P-O5'	-10.88	87.68	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4296	DG	O3'-P-O5'	-10.88	87.68	104.00
11	AB	4454	DG	O3'-P-O5'	-10.88	87.68	104.00
11	AB	5288	DG	O3'-P-O5'	-10.88	87.68	104.00
11	AB	6309	DG	O3'-P-O5'	-10.88	87.68	104.00
11	AB	6729	DG	O3'-P-O5'	-10.88	87.68	104.00
147	N3	4	DG	O3'-P-O5'	-10.88	87.68	104.00
11	AB	7069	DG	O3'-P-O5'	-10.88	87.69	104.00
76	G8	3	DG	O3'-P-O5'	-10.88	87.69	104.00
79	GC	17	DG	O3'-P-O5'	-10.88	87.68	104.00
94	I3	32	DG	O3'-P-O5'	-10.88	87.68	104.00
155	ND	13	DG	O3'-P-O5'	-10.88	87.68	104.00
157	O3	18	DG	O3'-P-O5'	-10.88	87.68	104.00
11	AB	927	DG	O3'-P-O5'	-10.87	87.69	104.00
11	AB	1519	DG	O3'-P-O5'	-10.87	87.69	104.00
11	AB	1520	DG	O3'-P-O5'	-10.87	87.69	104.00
11	AB	1824	DG	O3'-P-O5'	-10.88	87.69	104.00
11	AB	1835	DG	O3'-P-O5'	-10.87	87.69	104.00
11	AB	2095	DG	O3'-P-O5'	-10.88	87.69	104.00
11	AB	2687	DG	O3'-P-O5'	-10.88	87.69	104.00
11	AB	6243	DG	O3'-P-O5'	-10.88	87.69	104.00
11	AB	6728	DG	O3'-P-O5'	-10.88	87.69	104.00
11	AB	2696	DG	O3'-P-O5'	-10.87	87.69	104.00
11	AB	3472	DG	O3'-P-O5'	-10.87	87.69	104.00
11	AB	4277	DG	O3'-P-O5'	-10.87	87.69	104.00
11	AB	7065	DG	O3'-P-O5'	-10.87	87.69	104.00
33	C9	1	DG	O3'-P-O5'	-10.87	87.69	104.00
63	F6	5	DG	O3'-P-O5'	-10.88	87.69	104.00
64	F7	14	DG	O3'-P-O5'	-10.88	87.69	104.00
90	HC	7	DG	O3'-P-O5'	-10.88	87.69	104.00
175	PD	20	DG	O3'-P-O5'	-10.88	87.69	104.00
185	R2	4	DG	O3'-P-O5'	-10.87	87.69	104.00
191	RA	5	DG	O3'-P-O5'	-10.88	87.69	104.00
203	T2	13	DG	O3'-P-O5'	-10.87	87.69	104.00
11	AB	497	DG	O3'-P-O5'	-10.87	87.69	104.00
11	AB	3985	DG	O3'-P-O5'	-10.87	87.69	104.00
39	D3	28	DG	O3'-P-O5'	-10.87	87.69	104.00
42	D7	7	DG	O3'-P-O5'	-10.87	87.69	104.00
84	H5	6	DG	O3'-P-O5'	-10.87	87.69	104.00
191	RA	6	DG	O3'-P-O5'	-10.87	87.69	104.00
227	VA	19	DG	O3'-P-O5'	-10.87	87.69	104.00
230	W3	37	DG	O3'-P-O5'	-10.87	87.69	104.00
11	AB	1797	DG	O3'-P-O5'	-10.87	87.69	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3952	DG	O3'-P-O5'	-10.87	87.69	104.00
11	AB	5593	DG	O3'-P-O5'	-10.87	87.69	104.00
49	E2	6	DG	O3'-P-O5'	-10.87	87.69	104.00
123	KC	11	DG	O3'-P-O5'	-10.87	87.69	104.00
206	T7	39	DG	O3'-P-O5'	-10.87	87.69	104.00
231	W5	7	DG	O3'-P-O5'	-10.87	87.69	104.00
1	A1	41	DG	O3'-P-O5'	-10.87	87.70	104.00
11	AB	422	DG	O3'-P-O5'	-10.87	87.69	104.00
11	AB	453	DG	O3'-P-O5'	-10.87	87.69	104.00
11	AB	873	DG	O3'-P-O5'	-10.87	87.70	104.00
11	AB	969	DG	O3'-P-O5'	-10.87	87.69	104.00
11	AB	1007	DG	O3'-P-O5'	-10.87	87.69	104.00
11	AB	6816	DG	O3'-P-O5'	-10.87	87.70	104.00
14	B1	32	DG	O3'-P-O5'	-10.87	87.70	104.00
113	JD	10	DG	O3'-P-O5'	-10.87	87.69	104.00
183	QC	10	DG	O3'-P-O5'	-10.87	87.69	104.00
188	R7	13	DG	O3'-P-O5'	-10.87	87.70	104.00
231	W5	6	DG	O3'-P-O5'	-10.87	87.69	104.00
11	AB	444	DG	O3'-P-O5'	-10.87	87.70	104.00
11	AB	858	DG	O3'-P-O5'	-10.87	87.70	104.00
11	AB	2355	DG	O3'-P-O5'	-10.87	87.70	104.00
11	AB	3292	DG	O3'-P-O5'	-10.87	87.70	104.00
11	AB	3448	DG	O3'-P-O5'	-10.87	87.70	104.00
11	AB	4420	DG	O3'-P-O5'	-10.87	87.70	104.00
88	H9	22	DG	O3'-P-O5'	-10.87	87.70	104.00
11	AB	5083	DG	O3'-P-O5'	-10.87	87.70	104.00
11	AB	6837	DG	O3'-P-O5'	-10.87	87.70	104.00
11	AB	6873	DG	O3'-P-O5'	-10.87	87.70	104.00
22	B9	13	DG	O3'-P-O5'	-10.87	87.70	104.00
36	CD	5	DG	O3'-P-O5'	-10.87	87.70	104.00
58	ED	31	DG	O3'-P-O5'	-10.87	87.70	104.00
70	G1	5	DG	O3'-P-O5'	-10.87	87.70	104.00
130	L7	55	DG	O3'-P-O5'	-10.87	87.70	104.00
150	N7	5	DG	O3'-P-O5'	-10.87	87.70	104.00
11	AB	8	DG	O3'-P-O5'	-10.87	87.70	104.00
11	AB	660	DG	O3'-P-O5'	-10.87	87.70	104.00
11	AB	3123	DG	O3'-P-O5'	-10.87	87.70	104.00
11	AB	5814	DG	O3'-P-O5'	-10.87	87.70	104.00
41	D6	18	DG	O3'-P-O5'	-10.87	87.70	104.00
112	JC	1	DG	O3'-P-O5'	-10.87	87.70	104.00
202	SD	15	DG	O3'-P-O5'	-10.87	87.70	104.00
11	AB	2544	DG	O3'-P-O5'	-10.86	87.70	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2697	DG	O3'-P-O5'	-10.86	87.70	104.00
11	AB	3795	DG	O3'-P-O5'	-10.86	87.70	104.00
177	Q3	19	DG	O3'-P-O5'	-10.87	87.70	104.00
229	VD	7	DG	O3'-P-O5'	-10.87	87.70	104.00
11	AB	437	DG	O3'-P-O5'	-10.86	87.71	104.00
11	AB	1909	DG	O3'-P-O5'	-10.86	87.70	104.00
11	AB	4099	DG	O3'-P-O5'	-10.86	87.71	104.00
28	C3	18	DG	O3'-P-O5'	-10.86	87.70	104.00
126	L2	16	DG	O3'-P-O5'	-10.86	87.71	104.00
42	D7	18	DG	O3'-P-O5'	-10.86	87.71	104.00
133	LA	2	DG	O3'-P-O5'	-10.86	87.71	104.00
204	T3	23	DG	O3'-P-O5'	-10.86	87.71	104.00
207	T8	22	DG	O3'-P-O5'	-10.86	87.71	104.00
11	AB	525	DG	O3'-P-O5'	-10.86	87.71	104.00
11	AB	1009	DG	O3'-P-O5'	-10.86	87.71	104.00
11	AB	1493	DG	O3'-P-O5'	-10.86	87.71	104.00
11	AB	1702	DG	O3'-P-O5'	-10.86	87.71	104.00
11	AB	3529	DG	O3'-P-O5'	-10.86	87.71	104.00
11	AB	4571	DG	O3'-P-O5'	-10.86	87.71	104.00
11	AB	5016	DG	O3'-P-O5'	-10.86	87.71	104.00
11	AB	5718	DG	O3'-P-O5'	-10.86	87.71	104.00
11	AB	4484	DG	O3'-P-O5'	-10.86	87.71	104.00
11	AB	5167	DG	O3'-P-O5'	-10.86	87.71	104.00
11	AB	7196	DG	O3'-P-O5'	-10.86	87.71	104.00
106	J5	33	DG	O3'-P-O5'	-10.86	87.71	104.00
136	M2	16	DG	O3'-P-O5'	-10.86	87.71	104.00
213	U3	10	DG	O3'-P-O5'	-10.86	87.71	104.00
223	V5	21	DG	O3'-P-O5'	-10.86	87.71	104.00
11	AB	423	DG	O3'-P-O5'	-10.86	87.72	104.00
11	AB	951	DG	O3'-P-O5'	-10.86	87.72	104.00
11	AB	1104	DG	O3'-P-O5'	-10.86	87.72	104.00
11	AB	3553	DG	O3'-P-O5'	-10.86	87.72	104.00
11	AB	4471	DG	O3'-P-O5'	-10.86	87.72	104.00
11	AB	5009	DG	O3'-P-O5'	-10.86	87.72	104.00
11	AB	5763	DG	O3'-P-O5'	-10.86	87.72	104.00
136	M2	17	DG	O3'-P-O5'	-10.86	87.71	104.00
11	AB	5241	DG	O3'-P-O5'	-10.86	87.72	104.00
18	B5	12	DG	O3'-P-O5'	-10.86	87.72	104.00
30	C6	44	DG	O3'-P-O5'	-10.86	87.72	104.00
48	E1	11	DG	O3'-P-O5'	-10.86	87.72	104.00
51	E5	23	DG	O3'-P-O5'	-10.86	87.72	104.00
80	GD	19	DG	O3'-P-O5'	-10.86	87.72	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
123	KC	22	DG	O3'-P-O5'	-10.86	87.72	104.00
156	O2	10	DG	O3'-P-O5'	-10.86	87.72	104.00
158	O5	6	DG	O3'-P-O5'	-10.86	87.72	104.00
160	O7	4	DG	O3'-P-O5'	-10.86	87.72	104.00
168	P5	9	DG	O3'-P-O5'	-10.86	87.72	104.00
174	PC	10	DG	O3'-P-O5'	-10.86	87.72	104.00
179	Q7	21	DG	O3'-P-O5'	-10.86	87.72	104.00
11	AB	1338	DG	O3'-P-O5'	-10.85	87.72	104.00
11	AB	2733	DG	O3'-P-O5'	-10.85	87.72	104.00
11	AB	5276	DG	O3'-P-O5'	-10.85	87.72	104.00
11	AB	5734	DG	O3'-P-O5'	-10.85	87.72	104.00
28	C3	13	DG	O3'-P-O5'	-10.85	87.72	104.00
11	AB	2900	DG	O3'-P-O5'	-10.85	87.72	104.00
11	AB	3916	DG	O3'-P-O5'	-10.85	87.72	104.00
11	AB	5065	DG	O3'-P-O5'	-10.85	87.72	104.00
11	AB	5252	DG	O3'-P-O5'	-10.85	87.72	104.00
39	D3	2	DG	O3'-P-O5'	-10.85	87.72	104.00
40	D5	18	DG	O3'-P-O5'	-10.85	87.72	104.00
148	N5	29	DG	O3'-P-O5'	-10.85	87.72	104.00
7	A7	14	DG	O3'-P-O5'	-10.85	87.73	104.00
11	AB	498	DG	O3'-P-O5'	-10.85	87.73	104.00
11	AB	640	DG	O3'-P-O5'	-10.85	87.72	104.00
42	D7	8	DG	O3'-P-O5'	-10.85	87.72	104.00
11	AB	930	DG	O3'-P-O5'	-10.85	87.73	104.00
11	AB	1008	DG	O3'-P-O5'	-10.85	87.73	104.00
11	AB	4096	DG	O3'-P-O5'	-10.85	87.73	104.00
11	AB	4314	DG	O3'-P-O5'	-10.85	87.73	104.00
11	AB	4470	DG	O3'-P-O5'	-10.85	87.73	104.00
11	AB	4813	DG	O3'-P-O5'	-10.85	87.73	104.00
11	AB	7003	DG	O3'-P-O5'	-10.85	87.73	104.00
231	W5	5	DG	O3'-P-O5'	-10.85	87.73	104.00
3	A3	13	DG	O3'-P-O5'	-10.85	87.73	104.00
9	A9	18	DG	O3'-P-O5'	-10.85	87.73	104.00
11	AB	18	DG	O3'-P-O5'	-10.85	87.73	104.00
11	AB	540	DG	O3'-P-O5'	-10.85	87.73	104.00
11	AB	923	DG	O3'-P-O5'	-10.85	87.73	104.00
11	AB	2455	DG	O3'-P-O5'	-10.85	87.73	104.00
11	AB	4090	DG	O3'-P-O5'	-10.85	87.73	104.00
11	AB	4399	DG	O3'-P-O5'	-10.85	87.73	104.00
11	AB	4607	DG	O3'-P-O5'	-10.85	87.73	104.00
11	AB	4858	DG	O3'-P-O5'	-10.85	87.73	104.00
28	C3	14	DG	O3'-P-O5'	-10.85	87.73	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
134	LC	18	DG	O3'-P-O5'	-10.85	87.73	104.00
158	O5	5	DG	O3'-P-O5'	-10.85	87.73	104.00
187	R5	20	DG	O3'-P-O5'	-10.85	87.73	104.00
218	UA	13	DG	O3'-P-O5'	-10.85	87.73	104.00
11	AB	305	DG	O3'-P-O5'	-10.84	87.74	104.00
11	AB	780	DG	O3'-P-O5'	-10.84	87.73	104.00
11	AB	908	DG	O3'-P-O5'	-10.84	87.74	104.00
11	AB	2037	DG	O3'-P-O5'	-10.84	87.73	104.00
11	AB	2072	DG	O3'-P-O5'	-10.84	87.74	104.00
233	W8	14	DG	O3'-P-O5'	-10.84	87.73	104.00
11	AB	2950	DG	O3'-P-O5'	-10.84	87.74	104.00
11	AB	4357	DG	O3'-P-O5'	-10.84	87.74	104.00
11	AB	5389	DG	O3'-P-O5'	-10.84	87.74	104.00
11	AB	5659	DG	O3'-P-O5'	-10.84	87.74	104.00
14	B1	2	DG	O3'-P-O5'	-10.84	87.74	104.00
23	BA	16	DG	O3'-P-O5'	-10.84	87.74	104.00
76	G8	6	DG	O3'-P-O5'	-10.84	87.74	104.00
85	H6	16	DG	O3'-P-O5'	-10.84	87.74	104.00
188	R7	7	DG	O3'-P-O5'	-10.84	87.73	104.00
82	H2	54	DG	O3'-P-O5'	-10.84	87.74	104.00
120	K8	8	DG	O3'-P-O5'	-10.84	87.74	104.00
11	AB	634	DG	O3'-P-O5'	-10.84	87.74	104.00
11	AB	3394	DG	O3'-P-O5'	-10.84	87.74	104.00
11	AB	5892	DG	O3'-P-O5'	-10.84	87.74	104.00
11	AB	5954	DG	O3'-P-O5'	-10.84	87.74	104.00
11	AB	6520	DG	O3'-P-O5'	-10.84	87.74	104.00
13	AD	32	DG	O3'-P-O5'	-10.84	87.74	104.00
50	E3	1	DG	O3'-P-O5'	-10.84	87.74	104.00
81	H1	12	DG	O3'-P-O5'	-10.84	87.74	104.00
92	I1	14	DG	O3'-P-O5'	-10.84	87.74	104.00
98	I8	33	DG	O3'-P-O5'	-10.84	87.74	104.00
131	L8	26	DG	O3'-P-O5'	-10.84	87.74	104.00
238	X9	25	DG	O3'-P-O5'	-10.84	87.74	104.00
11	AB	882	DG	O3'-P-O5'	-10.84	87.75	104.00
11	AB	6447	DG	O3'-P-O5'	-10.84	87.74	104.00
11	AB	7109	DG	O3'-P-O5'	-10.84	87.74	104.00
21	B8	15	DG	O3'-P-O5'	-10.84	87.75	104.00
44	D9	23	DG	O3'-P-O5'	-10.84	87.75	104.00
44	D9	26	DG	O3'-P-O5'	-10.84	87.75	104.00
51	E5	7	DG	O3'-P-O5'	-10.84	87.75	104.00
94	I3	58	DG	O3'-P-O5'	-10.84	87.74	104.00
98	I8	34	DG	O3'-P-O5'	-10.84	87.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
102	ID	4	DG	O3'-P-O5'	-10.84	87.74	104.00
109	J8	11	DG	O3'-P-O5'	-10.84	87.74	104.00
133	LA	12	DG	O3'-P-O5'	-10.84	87.74	104.00
153	NA	21	DG	O3'-P-O5'	-10.84	87.74	104.00
189	R8	27	DG	O3'-P-O5'	-10.84	87.75	104.00
204	T3	38	DG	O3'-P-O5'	-10.84	87.75	104.00
213	U3	11	DG	O3'-P-O5'	-10.84	87.74	104.00
11	AB	750	DG	O3'-P-O5'	-10.84	87.75	104.00
11	AB	992	DG	O3'-P-O5'	-10.84	87.75	104.00
11	AB	1113	DG	O3'-P-O5'	-10.84	87.75	104.00
11	AB	1756	DG	O3'-P-O5'	-10.84	87.75	104.00
11	AB	3043	DG	O3'-P-O5'	-10.84	87.75	104.00
11	AB	3628	DG	O3'-P-O5'	-10.84	87.75	104.00
11	AB	3636	DG	O3'-P-O5'	-10.84	87.75	104.00
11	AB	6448	DG	O3'-P-O5'	-10.84	87.75	104.00
24	BC	22	DG	O3'-P-O5'	-10.84	87.75	104.00
43	D8	8	DG	O3'-P-O5'	-10.84	87.75	104.00
117	K5	43	DG	O3'-P-O5'	-10.84	87.75	104.00
132	L9	11	DG	O3'-P-O5'	-10.84	87.75	104.00
159	O6	10	DG	O3'-P-O5'	-10.84	87.75	104.00
178	Q5	38	DG	O3'-P-O5'	-10.84	87.75	104.00
11	AB	345	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	1469	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	1769	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	2013	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	2478	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	3393	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	4509	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	5248	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	5972	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	6438	DG	O3'-P-O5'	-10.83	87.75	104.00
16	B3	17	DG	O3'-P-O5'	-10.83	87.75	104.00
98	I8	32	DG	O3'-P-O5'	-10.83	87.75	104.00
106	J5	29	DG	O3'-P-O5'	-10.83	87.75	104.00
122	KA	12	DG	O3'-P-O5'	-10.83	87.75	104.00
209	TA	15	DG	O3'-P-O5'	-10.83	87.75	104.00
209	TA	29	DG	O3'-P-O5'	-10.83	87.75	104.00
153	NA	13	DG	O3'-P-O5'	-10.83	87.75	104.00
230	W3	41	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	53	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	137	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	915	DG	O3'-P-O5'	-10.83	87.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3213	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	4845	DG	O3'-P-O5'	-10.83	87.75	104.00
123	KC	18	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	745	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	1592	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	1640	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	1750	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	2781	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	4508	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	4628	DG	O3'-P-O5'	-10.83	87.75	104.00
104	J2	12	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	4656	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	5123	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	5203	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	5410	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	5482	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	5955	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	6774	DG	O3'-P-O5'	-10.83	87.75	104.00
11	AB	6936	DG	O3'-P-O5'	-10.83	87.76	104.00
30	C6	16	DG	O3'-P-O5'	-10.83	87.75	104.00
35	CC	30	DG	O3'-P-O5'	-10.83	87.76	104.00
101	IC	18	DG	O3'-P-O5'	-10.83	87.75	104.00
122	KA	27	DG	O3'-P-O5'	-10.83	87.75	104.00
123	KC	21	DG	O3'-P-O5'	-10.83	87.76	104.00
156	O2	18	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	1788	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	2310	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	4637	DG	O3'-P-O5'	-10.83	87.76	104.00
27	C2	5	DG	O3'-P-O5'	-10.83	87.76	104.00
102	ID	23	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	456	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	791	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	867	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	885	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	900	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	1882	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	2917	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	4073	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	4335	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	4821	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	5028	DG	O3'-P-O5'	-10.83	87.76	104.00
11	AB	5112	DG	O3'-P-O5'	-10.83	87.76	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7016	DG	O3'-P-O5'	-10.83	87.76	104.00
18	B5	11	DG	O3'-P-O5'	-10.83	87.76	104.00
24	BC	11	DG	O3'-P-O5'	-10.83	87.76	104.00
32	C8	46	DG	O3'-P-O5'	-10.83	87.76	104.00
61	F3	9	DG	O3'-P-O5'	-10.83	87.76	104.00
108	J7	11	DG	O3'-P-O5'	-10.83	87.76	104.00
174	PC	19	DG	O3'-P-O5'	-10.83	87.76	104.00
218	UA	6	DG	O3'-P-O5'	-10.83	87.76	104.00
10	AA	20	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	3212	DG	O3'-P-O5'	-10.82	87.76	104.00
11	AB	480	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	870	DG	O3'-P-O5'	-10.82	87.76	104.00
11	AB	909	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	1591	DG	O3'-P-O5'	-10.82	87.76	104.00
11	AB	2451	DG	O3'-P-O5'	-10.82	87.76	104.00
11	AB	3087	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	3418	DG	O3'-P-O5'	-10.82	87.76	104.00
11	AB	3652	DG	O3'-P-O5'	-10.82	87.76	104.00
11	AB	5053	DG	O3'-P-O5'	-10.82	87.76	104.00
11	AB	4212	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	4517	DG	O3'-P-O5'	-10.82	87.76	104.00
11	AB	6188	DG	O3'-P-O5'	-10.82	87.76	104.00
11	AB	4966	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	5191	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	5556	DG	O3'-P-O5'	-10.82	87.76	104.00
11	AB	6917	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	7015	DG	O3'-P-O5'	-10.82	87.76	104.00
11	AB	7018	DG	O3'-P-O5'	-10.82	87.77	104.00
95	I5	36	DG	O3'-P-O5'	-10.82	87.76	104.00
144	MC	4	DG	O3'-P-O5'	-10.82	87.76	104.00
131	L8	25	DG	O3'-P-O5'	-10.82	87.77	104.00
144	MC	5	DG	O3'-P-O5'	-10.82	87.76	104.00
166	P2	21	DG	O3'-P-O5'	-10.82	87.77	104.00
195	S3	1	DG	O3'-P-O5'	-10.82	87.77	104.00
201	SC	11	DG	O3'-P-O5'	-10.82	87.77	104.00
231	W5	23	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	113	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	894	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	1755	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	2062	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	327	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	1197	DG	O3'-P-O5'	-10.82	87.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4891	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	1480	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	2044	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	3879	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	3913	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	3408	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	4187	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	4890	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	6930	DG	O3'-P-O5'	-10.82	87.77	104.00
14	B1	1	DG	O3'-P-O5'	-10.82	87.77	104.00
22	B9	8	DG	O3'-P-O5'	-10.82	87.77	104.00
113	JD	3	DG	O3'-P-O5'	-10.82	87.77	104.00
29	C5	32	DG	O3'-P-O5'	-10.82	87.77	104.00
31	C7	19	DG	O3'-P-O5'	-10.82	87.77	104.00
32	C8	36	DG	O3'-P-O5'	-10.82	87.77	104.00
92	I1	13	DG	O3'-P-O5'	-10.82	87.77	104.00
94	I3	57	DG	O3'-P-O5'	-10.82	87.77	104.00
107	J6	40	DG	O3'-P-O5'	-10.82	87.77	104.00
113	JD	4	DG	O3'-P-O5'	-10.82	87.77	104.00
97	I7	30	DG	O3'-P-O5'	-10.82	87.77	104.00
99	I9	20	DG	O3'-P-O5'	-10.82	87.77	104.00
122	KA	11	DG	O3'-P-O5'	-10.82	87.77	104.00
158	O5	49	DG	O3'-P-O5'	-10.82	87.77	104.00
194	S2	14	DG	O3'-P-O5'	-10.82	87.77	104.00
223	V5	9	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	1906	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	4777	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	5658	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	25	DG	O3'-P-O5'	-10.82	87.78	104.00
11	AB	41	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	912	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	1287	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	2144	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	6269	DG	O3'-P-O5'	-10.82	87.77	104.00
16	B3	16	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	1905	DG	O3'-P-O5'	-10.82	87.78	104.00
60	F2	19	DG	O3'-P-O5'	-10.82	87.78	104.00
80	GD	20	DG	O3'-P-O5'	-10.82	87.78	104.00
120	K8	9	DG	O3'-P-O5'	-10.82	87.78	104.00
188	R7	2	DG	O3'-P-O5'	-10.82	87.77	104.00
196	S5	12	DG	O3'-P-O5'	-10.82	87.77	104.00
213	U3	12	DG	O3'-P-O5'	-10.82	87.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
234	W9	7	DG	O3'-P-O5'	-10.82	87.77	104.00
11	AB	879	DG	O3'-P-O5'	-10.81	87.78	104.00
11	AB	893	DG	O3'-P-O5'	-10.81	87.78	104.00
11	AB	1181	DG	O3'-P-O5'	-10.81	87.78	104.00
11	AB	3810	DG	O3'-P-O5'	-10.81	87.78	104.00
11	AB	4215	DG	O3'-P-O5'	-10.81	87.78	104.00
11	AB	4398	DG	O3'-P-O5'	-10.81	87.78	104.00
11	AB	4514	DG	O3'-P-O5'	-10.81	87.78	104.00
11	AB	4649	DG	O3'-P-O5'	-10.81	87.78	104.00
11	AB	4701	DG	O3'-P-O5'	-10.81	87.78	104.00
11	AB	5412	DG	O3'-P-O5'	-10.81	87.78	104.00
64	F7	19	DG	O3'-P-O5'	-10.81	87.78	104.00
11	AB	5575	DG	O3'-P-O5'	-10.81	87.78	104.00
11	AB	6136	DG	O3'-P-O5'	-10.81	87.78	104.00
94	I3	39	DG	O3'-P-O5'	-10.81	87.78	104.00
11	AB	6141	DG	O3'-P-O5'	-10.81	87.78	104.00
109	J8	27	DG	O3'-P-O5'	-10.81	87.78	104.00
191	RA	26	DG	O3'-P-O5'	-10.81	87.78	104.00
213	U3	13	DG	O3'-P-O5'	-10.81	87.78	104.00
6	A6	5	DG	O3'-P-O5'	-10.81	87.78	104.00
11	AB	1639	DG	O3'-P-O5'	-10.81	87.78	104.00
11	AB	4020	DG	O3'-P-O5'	-10.81	87.78	104.00
11	AB	4747	DG	O3'-P-O5'	-10.81	87.79	104.00
11	AB	7017	DG	O3'-P-O5'	-10.81	87.79	104.00
32	C8	18	DG	O3'-P-O5'	-10.81	87.78	104.00
108	J7	7	DG	O3'-P-O5'	-10.81	87.78	104.00
143	MA	40	DG	O3'-P-O5'	-10.81	87.78	104.00
152	N9	23	DG	O3'-P-O5'	-10.81	87.78	104.00
226	V9	15	DG	O3'-P-O5'	-10.81	87.78	104.00
11	AB	897	DG	O3'-P-O5'	-10.81	87.79	104.00
11	AB	4901	DG	O3'-P-O5'	-10.81	87.79	104.00
109	J8	26	DG	O3'-P-O5'	-10.81	87.79	104.00
192	RC	10	DG	O3'-P-O5'	-10.81	87.79	104.00
11	AB	123	DG	O3'-P-O5'	-10.81	87.79	104.00
11	AB	5204	DG	O3'-P-O5'	-10.81	87.79	104.00
11	AB	5411	DG	O3'-P-O5'	-10.81	87.79	104.00
148	N5	17	DG	O3'-P-O5'	-10.81	87.79	104.00
200	SA	5	DG	O3'-P-O5'	-10.81	87.79	104.00
11	AB	3219	DG	O3'-P-O5'	-10.81	87.79	104.00
11	AB	4214	DG	O3'-P-O5'	-10.80	87.79	104.00
11	AB	4657	DG	O3'-P-O5'	-10.80	87.79	104.00
11	AB	4820	DG	O3'-P-O5'	-10.81	87.79	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A2	25	DG	O3'-P-O5'	-10.80	87.80	104.00
11	AB	306	DG	O3'-P-O5'	-10.80	87.80	104.00
11	AB	6773	DG	O3'-P-O5'	-10.80	87.80	104.00
109	J8	25	DG	O3'-P-O5'	-10.80	87.79	104.00
209	TA	30	DG	O3'-P-O5'	-10.80	87.80	104.00
11	AB	1191	DG	O3'-P-O5'	-10.80	87.80	104.00
11	AB	3039	DG	O3'-P-O5'	-10.80	87.80	104.00
11	AB	3541	DG	O3'-P-O5'	-10.80	87.80	104.00
11	AB	3637	DG	O3'-P-O5'	-10.80	87.80	104.00
11	AB	3742	DG	O3'-P-O5'	-10.80	87.80	104.00
107	J6	43	DG	O3'-P-O5'	-10.80	87.80	104.00
11	AB	2238	DG	O3'-P-O5'	-10.80	87.80	104.00
60	F2	24	DG	O3'-P-O5'	-10.80	87.80	104.00
95	I5	37	DG	O3'-P-O5'	-10.80	87.80	104.00
233	W8	13	DG	O3'-P-O5'	-10.80	87.80	104.00
11	AB	2390	DG	O3'-P-O5'	-10.80	87.81	104.00
11	AB	4822	DG	O3'-P-O5'	-10.80	87.80	104.00
200	SA	11	DG	O3'-P-O5'	-10.80	87.80	104.00
209	TA	14	DG	O3'-P-O5'	-10.80	87.80	104.00
11	AB	5035	DG	O3'-P-O5'	-10.80	87.81	104.00
11	AB	6652	DG	O3'-P-O5'	-10.79	87.81	104.00
11	AB	1281	DG	O3'-P-O5'	-10.79	87.81	104.00
11	AB	1441	DG	O3'-P-O5'	-10.79	87.81	104.00
11	AB	4710	DG	O3'-P-O5'	-10.79	87.81	104.00
14	B1	20	DG	O3'-P-O5'	-10.79	87.81	104.00
11	AB	19	DG	O3'-P-O5'	-10.79	87.82	104.00
11	AB	316	DG	O3'-P-O5'	-10.79	87.82	104.00
11	AB	1442	DG	O3'-P-O5'	-10.79	87.82	104.00
33	C9	13	DG	O3'-P-O5'	-10.79	87.82	104.00
186	R3	5	DG	O3'-P-O5'	-10.79	87.82	104.00
218	UA	5	DG	O3'-P-O5'	-10.79	87.82	104.00
5	A5	8	DG	O3'-P-O5'	-10.78	87.82	104.00
11	AB	4283	DG	O3'-P-O5'	-10.79	87.82	104.00
93	I2	24	DG	O3'-P-O5'	-10.79	87.82	104.00
11	AB	4213	DG	O3'-P-O5'	-10.78	87.83	104.00
11	AB	5047	DG	O3'-P-O5'	-10.78	87.83	104.00
218	UA	7	DG	O3'-P-O5'	-10.78	87.83	104.00
153	NA	14	DG	O3'-P-O5'	-10.78	87.83	104.00
11	AB	1571	DG	O3'-P-O5'	-10.76	87.86	104.00
11	AB	622	DG	O3'-P-O5'	-10.76	87.86	104.00
11	AB	1415	DG	O3'-P-O5'	-10.74	87.89	104.00
11	AB	459	DG	O3'-P-O5'	-10.73	87.90	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6620	DG	O3'-P-O5'	-10.72	87.91	104.00
11	AB	1852	DG	O3'-P-O5'	-10.71	87.93	104.00
11	AB	6385	DG	O3'-P-O5'	-10.69	87.96	104.00
11	AB	2295	DG	O3'-P-O5'	-10.67	87.99	104.00
23	BA	27	DC	O3'-P-O5'	-10.27	88.60	104.00
11	AB	2984	DC	O3'-P-O5'	-10.26	88.61	104.00
11	AB	1096	DC	O3'-P-O5'	-10.26	88.62	104.00
44	D9	19	DC	O3'-P-O5'	-10.26	88.62	104.00
11	AB	2843	DC	O3'-P-O5'	-10.25	88.62	104.00
11	AB	601	DC	O3'-P-O5'	-10.25	88.62	104.00
11	AB	2521	DC	O3'-P-O5'	-10.25	88.63	104.00
11	AB	6103	DC	O3'-P-O5'	-10.25	88.63	104.00
11	AB	6350	DC	O3'-P-O5'	-10.25	88.63	104.00
11	AB	6805	DC	O3'-P-O5'	-10.25	88.63	104.00
11	AB	1799	DC	O3'-P-O5'	-10.25	88.63	104.00
11	AB	2618	DC	O3'-P-O5'	-10.25	88.63	104.00
11	AB	6077	DC	O3'-P-O5'	-10.25	88.63	104.00
60	F2	29	DC	O3'-P-O5'	-10.25	88.63	104.00
82	H2	32	DC	O3'-P-O5'	-10.25	88.63	104.00
11	AB	961	DC	O3'-P-O5'	-10.24	88.63	104.00
11	AB	1951	DC	O3'-P-O5'	-10.24	88.63	104.00
11	AB	6736	DC	O3'-P-O5'	-10.24	88.63	104.00
11	AB	4467	DC	O3'-P-O5'	-10.24	88.64	104.00
101	IC	23	DC	O3'-P-O5'	-10.24	88.63	104.00
11	AB	5939	DC	O3'-P-O5'	-10.24	88.64	104.00
203	T2	5	DC	O3'-P-O5'	-10.24	88.64	104.00
11	AB	739	DC	O3'-P-O5'	-10.24	88.64	104.00
11	AB	2353	DC	O3'-P-O5'	-10.24	88.64	104.00
110	J9	7	DC	O3'-P-O5'	-10.24	88.64	104.00
11	AB	1245	DC	O3'-P-O5'	-10.24	88.64	104.00
11	AB	2675	DC	O3'-P-O5'	-10.24	88.64	104.00
11	AB	3485	DC	O3'-P-O5'	-10.24	88.64	104.00
26	C1	14	DC	O3'-P-O5'	-10.24	88.64	104.00
167	P3	33	DC	O3'-P-O5'	-10.24	88.64	104.00
223	V5	23	DC	O3'-P-O5'	-10.24	88.64	104.00
215	U7	19	DC	O3'-P-O5'	-10.24	88.64	104.00
11	AB	1162	DC	O3'-P-O5'	-10.24	88.64	104.00
11	AB	2960	DC	O3'-P-O5'	-10.24	88.64	104.00
11	AB	2972	DC	O3'-P-O5'	-10.24	88.64	104.00
11	AB	5981	DC	O3'-P-O5'	-10.24	88.64	104.00
11	AB	7052	DC	O3'-P-O5'	-10.24	88.65	104.00
43	D8	18	DC	O3'-P-O5'	-10.24	88.65	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
83	H3	2	DC	O3'-P-O5'	-10.24	88.64	104.00
210	TC	6	DC	O3'-P-O5'	-10.24	88.64	104.00
11	AB	3509	DC	O3'-P-O5'	-10.23	88.65	104.00
11	AB	4007	DC	O3'-P-O5'	-10.23	88.65	104.00
11	AB	934	DC	O3'-P-O5'	-10.23	88.65	104.00
11	AB	1522	DC	O3'-P-O5'	-10.23	88.65	104.00
11	AB	1994	DC	O3'-P-O5'	-10.23	88.65	104.00
11	AB	3159	DC	O3'-P-O5'	-10.23	88.65	104.00
11	AB	3340	DC	O3'-P-O5'	-10.23	88.65	104.00
11	AB	3446	DC	O3'-P-O5'	-10.23	88.65	104.00
11	AB	5795	DC	O3'-P-O5'	-10.23	88.65	104.00
11	AB	6105	DC	O3'-P-O5'	-10.23	88.65	104.00
11	AB	7188	DC	O3'-P-O5'	-10.23	88.65	104.00
152	N9	27	DC	O3'-P-O5'	-10.23	88.65	104.00
172	P9	17	DC	O3'-P-O5'	-10.23	88.65	104.00
208	T9	9	DC	O3'-P-O5'	-10.23	88.65	104.00
230	W3	7	DC	O3'-P-O5'	-10.23	88.65	104.00
11	AB	416	DC	O3'-P-O5'	-10.23	88.65	104.00
11	AB	2176	DC	O3'-P-O5'	-10.23	88.65	104.00
11	AB	4119	DC	O3'-P-O5'	-10.23	88.65	104.00
11	AB	5216	DC	O3'-P-O5'	-10.23	88.66	104.00
11	AB	5380	DC	O3'-P-O5'	-10.23	88.66	104.00
11	AB	6131	DC	O3'-P-O5'	-10.23	88.65	104.00
11	AB	6503	DC	O3'-P-O5'	-10.23	88.66	104.00
11	AB	6742	DC	O3'-P-O5'	-10.23	88.65	104.00
11	AB	7225	DC	O3'-P-O5'	-10.23	88.65	104.00
160	O7	14	DC	O3'-P-O5'	-10.23	88.65	104.00
129	L6	21	DC	O3'-P-O5'	-10.23	88.66	104.00
178	Q5	12	DC	O3'-P-O5'	-10.23	88.65	104.00
233	W8	19	DC	O3'-P-O5'	-10.23	88.65	104.00
11	AB	4005	DC	O3'-P-O5'	-10.23	88.66	104.00
43	D8	29	DC	O3'-P-O5'	-10.23	88.66	104.00
224	V7	6	DC	O3'-P-O5'	-10.23	88.66	104.00
11	AB	397	DC	O3'-P-O5'	-10.23	88.66	104.00
11	AB	1954	DC	O3'-P-O5'	-10.23	88.66	104.00
11	AB	3647	DC	O3'-P-O5'	-10.23	88.66	104.00
11	AB	3674	DC	O3'-P-O5'	-10.23	88.66	104.00
11	AB	4733	DC	O3'-P-O5'	-10.23	88.66	104.00
11	AB	5020	DC	O3'-P-O5'	-10.23	88.66	104.00
11	AB	5091	DC	O3'-P-O5'	-10.23	88.66	104.00
11	AB	7054	DC	O3'-P-O5'	-10.23	88.66	104.00
187	R5	12	DC	O3'-P-O5'	-10.23	88.66	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5918	DC	O3'-P-O5'	-10.23	88.66	104.00
32	C8	44	DC	O3'-P-O5'	-10.23	88.66	104.00
41	D6	6	DC	O3'-P-O5'	-10.23	88.66	104.00
83	H3	6	DC	O3'-P-O5'	-10.23	88.66	104.00
93	I2	43	DC	O3'-P-O5'	-10.23	88.66	104.00
122	KA	6	DC	O3'-P-O5'	-10.23	88.66	104.00
172	P9	22	DC	O3'-P-O5'	-10.23	88.66	104.00
214	U5	18	DC	O3'-P-O5'	-10.23	88.66	104.00
11	AB	5509	DC	O3'-P-O5'	-10.22	88.66	104.00
11	AB	379	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	1370	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	1495	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	1536	DC	O3'-P-O5'	-10.22	88.66	104.00
11	AB	1972	DC	O3'-P-O5'	-10.22	88.66	104.00
11	AB	2823	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	2852	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	3146	DC	O3'-P-O5'	-10.22	88.66	104.00
11	AB	3695	DC	O3'-P-O5'	-10.22	88.66	104.00
11	AB	4855	DC	O3'-P-O5'	-10.22	88.66	104.00
11	AB	3317	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	4726	DC	O3'-P-O5'	-10.22	88.66	104.00
11	AB	5140	DC	O3'-P-O5'	-10.22	88.66	104.00
11	AB	7182	DC	O3'-P-O5'	-10.22	88.66	104.00
198	S8	6	DC	O3'-P-O5'	-10.22	88.66	104.00
11	AB	5930	DC	O3'-P-O5'	-10.22	88.67	104.00
99	I9	7	DC	O3'-P-O5'	-10.22	88.67	104.00
117	K5	13	DC	O3'-P-O5'	-10.22	88.66	104.00
128	L5	6	DC	O3'-P-O5'	-10.22	88.67	104.00
138	M5	37	DC	O3'-P-O5'	-10.22	88.67	104.00
143	MA	15	DC	O3'-P-O5'	-10.22	88.66	104.00
11	AB	205	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	576	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	1306	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	1556	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	2185	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	1562	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	2611	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	3493	DC	O3'-P-O5'	-10.22	88.67	104.00
105	J3	16	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	3443	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	3923	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	3999	DC	O3'-P-O5'	-10.22	88.67	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4146	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	4922	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	6476	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	5527	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	6408	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	6744	DC	O3'-P-O5'	-10.22	88.67	104.00
39	D3	6	DC	O3'-P-O5'	-10.22	88.67	104.00
140	M7	9	DC	O3'-P-O5'	-10.22	88.67	104.00
156	O2	12	DC	O3'-P-O5'	-10.22	88.67	104.00
170	P7	7	DC	O3'-P-O5'	-10.22	88.67	104.00
205	T5	6	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	433	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	574	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	679	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	1511	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	2100	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	826	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	1093	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	2107	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	2281	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	5075	DC	O3'-P-O5'	-10.22	88.67	104.00
27	C2	21	DC	O3'-P-O5'	-10.22	88.67	104.00
209	TA	22	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	2425	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	3284	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	3500	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	3512	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	3991	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	4325	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	5392	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	5529	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	5800	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	6182	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	6721	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	6860	DC	O3'-P-O5'	-10.22	88.67	104.00
29	C5	23	DC	O3'-P-O5'	-10.22	88.67	104.00
61	F3	4	DC	O3'-P-O5'	-10.22	88.67	104.00
136	M2	1	DC	O3'-P-O5'	-10.22	88.67	104.00
231	W5	14	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	211	DC	O3'-P-O5'	-10.22	88.68	104.00
11	AB	565	DC	O3'-P-O5'	-10.21	88.68	104.00
108	J7	16	DC	O3'-P-O5'	-10.22	88.68	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	571	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	586	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	863	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	2692	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	4242	DC	O3'-P-O5'	-10.22	88.68	104.00
11	AB	4360	DC	O3'-P-O5'	-10.22	88.67	104.00
11	AB	1240	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	2437	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	3622	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	4533	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	5079	DC	O3'-P-O5'	-10.22	88.68	104.00
11	AB	5063	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	5397	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	5600	DC	O3'-P-O5'	-10.21	88.68	104.00
124	KD	7	DC	O3'-P-O5'	-10.22	88.68	104.00
11	AB	5936	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	6231	DC	O3'-P-O5'	-10.21	88.68	104.00
35	CC	12	DC	O3'-P-O5'	-10.21	88.68	104.00
37	D1	34	DC	O3'-P-O5'	-10.21	88.68	104.00
41	D6	16	DC	O3'-P-O5'	-10.21	88.68	104.00
62	F5	20	DC	O3'-P-O5'	-10.21	88.68	104.00
84	H5	29	DC	O3'-P-O5'	-10.21	88.68	104.00
189	R8	16	DC	O3'-P-O5'	-10.22	88.67	104.00
215	U7	12	DC	O3'-P-O5'	-10.22	88.68	104.00
151	N8	7	DC	O3'-P-O5'	-10.21	88.68	104.00
185	R2	13	DC	O3'-P-O5'	-10.21	88.68	104.00
227	VA	27	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	1147	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	1249	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	1404	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	1812	DC	O3'-P-O5'	-10.21	88.68	104.00
62	F5	7	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	391	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	1128	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	3515	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	3830	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	4268	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	4384	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	5861	DC	O3'-P-O5'	-10.21	88.68	104.00
67	FA	29	DC	O3'-P-O5'	-10.21	88.68	104.00
83	H3	38	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	1150	DC	O3'-P-O5'	-10.21	88.69	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1502	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	1849	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	1960	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	3645	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	5783	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	7074	DC	O3'-P-O5'	-10.21	88.68	104.00
30	C6	12	DC	O3'-P-O5'	-10.21	88.68	104.00
104	J2	18	DC	O3'-P-O5'	-10.21	88.68	104.00
124	KD	4	DC	O3'-P-O5'	-10.21	88.68	104.00
187	R5	31	DC	O3'-P-O5'	-10.21	88.68	104.00
221	V2	1	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	3143	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	3149	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	3294	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	3352	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	3556	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	3938	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	5376	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	5522	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	6637	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	6253	DC	O3'-P-O5'	-10.21	88.69	104.00
17	B4	20	DC	O3'-P-O5'	-10.21	88.69	104.00
54	E8	18	DC	O3'-P-O5'	-10.21	88.69	104.00
147	N3	26	DC	O3'-P-O5'	-10.21	88.68	104.00
149	N6	3	DC	O3'-P-O5'	-10.21	88.68	104.00
171	P8	7	DC	O3'-P-O5'	-10.21	88.68	104.00
238	X9	5	DC	O3'-P-O5'	-10.21	88.68	104.00
11	AB	200	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	418	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	1695	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	1801	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	7045	DC	O3'-P-O5'	-10.21	88.69	104.00
206	T7	13	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	649	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	664	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	1560	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	2669	DC	O3'-P-O5'	-10.21	88.69	104.00
54	E8	21	DC	O3'-P-O5'	-10.21	88.69	104.00
98	I8	26	DC	O3'-P-O5'	-10.21	88.69	104.00
114	K1	42	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	844	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	1704	DC	O3'-P-O5'	-10.21	88.69	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2992	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	4719	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	5461	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	6075	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	6486	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	6862	DC	O3'-P-O5'	-10.21	88.69	104.00
18	B5	17	DC	O3'-P-O5'	-10.21	88.69	104.00
143	MA	32	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	191	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	196	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	1328	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	1675	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	4690	DC	O3'-P-O5'	-10.21	88.69	104.00
4	A4	17	DC	O3'-P-O5'	-10.20	88.69	104.00
11	AB	670	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	1048	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	3320	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	5239	DC	O3'-P-O5'	-10.21	88.69	104.00
30	C6	26	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	1166	DC	O3'-P-O5'	-10.20	88.69	104.00
11	AB	1387	DC	O3'-P-O5'	-10.20	88.69	104.00
11	AB	1574	DC	O3'-P-O5'	-10.20	88.69	104.00
11	AB	1579	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	2846	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	3464	DC	O3'-P-O5'	-10.20	88.69	104.00
11	AB	3498	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	3764	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	3833	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	5996	DC	O3'-P-O5'	-10.21	88.69	104.00
220	UD	1	DC	O3'-P-O5'	-10.21	88.69	104.00
11	AB	4938	DC	O3'-P-O5'	-10.20	88.69	104.00
11	AB	5469	DC	O3'-P-O5'	-10.20	88.69	104.00
11	AB	5606	DC	O3'-P-O5'	-10.20	88.69	104.00
11	AB	6807	DC	O3'-P-O5'	-10.21	88.69	104.00
24	BC	31	DC	O3'-P-O5'	-10.21	88.69	104.00
84	H5	36	DC	O3'-P-O5'	-10.20	88.69	104.00
90	HC	19	DC	O3'-P-O5'	-10.20	88.69	104.00
133	LA	7	DC	O3'-P-O5'	-10.20	88.69	104.00
154	NC	2	DC	O3'-P-O5'	-10.20	88.69	104.00
172	P9	26	DC	O3'-P-O5'	-10.20	88.69	104.00
214	U5	22	DC	O3'-P-O5'	-10.21	88.69	104.00
2	A2	21	DC	O3'-P-O5'	-10.20	88.69	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	256	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	778	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	1012	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	1072	DC	O3'-P-O5'	-10.20	88.69	104.00
11	AB	1132	DC	O3'-P-O5'	-10.20	88.69	104.00
11	AB	1693	DC	O3'-P-O5'	-10.20	88.69	104.00
11	AB	1968	DC	O3'-P-O5'	-10.20	88.69	104.00
11	AB	3936	DC	O3'-P-O5'	-10.20	88.69	104.00
11	AB	5589	DC	O3'-P-O5'	-10.20	88.69	104.00
11	AB	6792	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	559	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	2264	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	2584	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	3185	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	3452	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	3616	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	4544	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	4594	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	4792	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	6219	DC	O3'-P-O5'	-10.20	88.69	104.00
11	AB	6888	DC	O3'-P-O5'	-10.20	88.69	104.00
144	MC	19	DC	O3'-P-O5'	-10.20	88.69	104.00
204	T3	15	DC	O3'-P-O5'	-10.20	88.69	104.00
11	AB	5511	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	5789	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	6016	DC	O3'-P-O5'	-10.20	88.70	104.00
23	BA	24	DC	O3'-P-O5'	-10.20	88.70	104.00
90	HC	5	DC	O3'-P-O5'	-10.20	88.70	104.00
93	I2	46	DC	O3'-P-O5'	-10.20	88.70	104.00
111	JA	15	DC	O3'-P-O5'	-10.20	88.70	104.00
127	L3	17	DC	O3'-P-O5'	-10.20	88.70	104.00
156	O2	8	DC	O3'-P-O5'	-10.20	88.70	104.00
180	Q8	22	DC	O3'-P-O5'	-10.20	88.70	104.00
212	U2	17	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	592	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	2317	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	2936	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	3191	DC	O3'-P-O5'	-10.20	88.70	104.00
51	E5	12	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	919	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	3169	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	3450	DC	O3'-P-O5'	-10.20	88.70	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3839	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	5243	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	5302	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	5696	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	6113	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	6272	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	6602	DC	O3'-P-O5'	-10.20	88.70	104.00
125	L1	37	DC	O3'-P-O5'	-10.20	88.70	104.00
183	QC	5	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	4391	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	4395	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	6227	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	7219	DC	O3'-P-O5'	-10.20	88.70	104.00
22	B9	6	DC	O3'-P-O5'	-10.20	88.70	104.00
44	D9	10	DC	O3'-P-O5'	-10.20	88.70	104.00
64	F7	12	DC	O3'-P-O5'	-10.20	88.70	104.00
70	G1	3	DC	O3'-P-O5'	-10.20	88.70	104.00
108	J7	51	DC	O3'-P-O5'	-10.20	88.70	104.00
141	M8	27	DC	O3'-P-O5'	-10.20	88.70	104.00
10	AA	5	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	3827	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	387	DC	O3'-P-O5'	-10.20	88.71	104.00
11	AB	448	DC	O3'-P-O5'	-10.20	88.71	104.00
11	AB	529	DC	O3'-P-O5'	-10.20	88.71	104.00
11	AB	831	DC	O3'-P-O5'	-10.20	88.71	104.00
11	AB	1065	DC	O3'-P-O5'	-10.20	88.71	104.00
219	UC	6	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	835	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	841	DC	O3'-P-O5'	-10.20	88.71	104.00
11	AB	959	DC	O3'-P-O5'	-10.20	88.71	104.00
11	AB	1041	DC	O3'-P-O5'	-10.20	88.71	104.00
11	AB	1044	DC	O3'-P-O5'	-10.20	88.71	104.00
11	AB	1285	DC	O3'-P-O5'	-10.20	88.71	104.00
11	AB	1707	DC	O3'-P-O5'	-10.20	88.71	104.00
11	AB	2346	DC	O3'-P-O5'	-10.20	88.71	104.00
11	AB	4039	DC	O3'-P-O5'	-10.20	88.71	104.00
11	AB	5549	DC	O3'-P-O5'	-10.20	88.70	104.00
57	EC	16	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	1485	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	1691	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	1856	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	3011	DC	O3'-P-O5'	-10.20	88.71	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3296	DC	O3'-P-O5'	-10.20	88.71	104.00
11	AB	3686	DC	O3'-P-O5'	-10.20	88.71	104.00
11	AB	3718	DC	O3'-P-O5'	-10.20	88.71	104.00
11	AB	3988	DC	O3'-P-O5'	-10.20	88.71	104.00
11	AB	4136	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	7000	DC	O3'-P-O5'	-10.20	88.70	104.00
37	D1	26	DC	O3'-P-O5'	-10.20	88.70	104.00
147	N3	13	DC	O3'-P-O5'	-10.20	88.70	104.00
177	Q3	9	DC	O3'-P-O5'	-10.20	88.70	104.00
11	AB	3941	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	4464	DC	O3'-P-O5'	-10.20	88.71	104.00
11	AB	4862	DC	O3'-P-O5'	-10.20	88.71	104.00
65	F8	4	DC	O3'-P-O5'	-10.20	88.71	104.00
114	K1	39	DC	O3'-P-O5'	-10.20	88.70	104.00
165	OD	56	DC	O3'-P-O5'	-10.20	88.71	104.00
217	U9	12	DC	O3'-P-O5'	-10.20	88.71	104.00
11	AB	5585	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	5699	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	6414	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	6527	DC	O3'-P-O5'	-10.19	88.71	104.00
92	I1	24	DC	O3'-P-O5'	-10.20	88.71	104.00
119	K7	40	DC	O3'-P-O5'	-10.20	88.71	104.00
120	K8	17	DC	O3'-P-O5'	-10.19	88.71	104.00
122	KA	31	DC	O3'-P-O5'	-10.19	88.71	104.00
139	M6	5	DC	O3'-P-O5'	-10.19	88.71	104.00
141	M8	19	DC	O3'-P-O5'	-10.20	88.71	104.00
163	OA	14	DC	O3'-P-O5'	-10.20	88.71	104.00
167	P3	23	DC	O3'-P-O5'	-10.19	88.71	104.00
186	R3	15	DC	O3'-P-O5'	-10.19	88.71	104.00
186	R3	20	DC	O3'-P-O5'	-10.20	88.71	104.00
188	R7	31	DC	O3'-P-O5'	-10.20	88.71	104.00
1	A1	50	DC	O3'-P-O5'	-10.19	88.71	104.00
5	A5	15	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	355	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	904	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	932	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	1183	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	1343	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	1499	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	1542	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	2025	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	3950	DC	O3'-P-O5'	-10.19	88.71	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4124	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	4253	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	6688	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	2638	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	4172	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	4502	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	4647	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	5155	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	6533	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	6712	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	6951	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	7191	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	7237	DC	O3'-P-O5'	-10.19	88.71	104.00
49	E2	2	DC	O3'-P-O5'	-10.19	88.71	104.00
114	K1	8	DC	O3'-P-O5'	-10.19	88.71	104.00
106	J5	8	DC	O3'-P-O5'	-10.19	88.71	104.00
122	KA	42	DC	O3'-P-O5'	-10.19	88.71	104.00
154	NC	32	DC	O3'-P-O5'	-10.19	88.71	104.00
181	Q9	7	DC	O3'-P-O5'	-10.19	88.71	104.00
183	QC	22	DC	O3'-P-O5'	-10.19	88.71	104.00
184	QD	2	DC	O3'-P-O5'	-10.19	88.71	104.00
196	S5	24	DC	O3'-P-O5'	-10.19	88.71	104.00
210	TC	12	DC	O3'-P-O5'	-10.19	88.71	104.00
216	U8	21	DC	O3'-P-O5'	-10.19	88.71	104.00
223	V5	38	DC	O3'-P-O5'	-10.19	88.71	104.00
227	VA	3	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	187	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	594	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	709	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	853	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	1436	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	2329	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	4548	DC	O3'-P-O5'	-10.19	88.71	104.00
11	AB	1506	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	1932	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	2224	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	2253	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	3776	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	4694	DC	O3'-P-O5'	-10.19	88.72	104.00
65	F8	12	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	5459	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	6155	DC	O3'-P-O5'	-10.19	88.72	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	C2	16	DC	O3'-P-O5'	-10.19	88.72	104.00
115	K2	29	DC	O3'-P-O5'	-10.19	88.72	104.00
164	OC	8	DC	O3'-P-O5'	-10.19	88.72	104.00
207	T8	17	DC	O3'-P-O5'	-10.19	88.72	104.00
227	VA	8	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	6632	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	7209	DC	O3'-P-O5'	-10.19	88.72	104.00
34	CA	15	DC	O3'-P-O5'	-10.19	88.72	104.00
51	E5	26	DC	O3'-P-O5'	-10.19	88.72	104.00
85	H6	18	DC	O3'-P-O5'	-10.19	88.72	104.00
148	N5	24	DC	O3'-P-O5'	-10.19	88.72	104.00
192	RC	21	DC	O3'-P-O5'	-10.19	88.72	104.00
192	RC	23	DC	O3'-P-O5'	-10.19	88.72	104.00
205	T5	20	DC	O3'-P-O5'	-10.19	88.72	104.00
213	U3	20	DC	O3'-P-O5'	-10.19	88.71	104.00
221	V2	20	DC	O3'-P-O5'	-10.19	88.72	104.00
202	SD	12	DC	O3'-P-O5'	-10.19	88.72	104.00
205	T5	18	DC	O3'-P-O5'	-10.19	88.72	104.00
8	A8	22	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	782	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	1396	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	1581	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	1614	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	2041	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	3263	DC	O3'-P-O5'	-10.19	88.72	104.00
107	J6	3	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	1548	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	2260	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	2332	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	3344	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	3425	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	4066	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	4205	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	5104	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	5220	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	6953	DC	O3'-P-O5'	-10.19	88.72	104.00
47	DD	11	DC	O3'-P-O5'	-10.19	88.72	104.00
54	E8	35	DC	O3'-P-O5'	-10.19	88.72	104.00
151	N8	9	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	3872	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	4626	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	4659	DC	O3'-P-O5'	-10.19	88.72	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4948	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	5596	DC	O3'-P-O5'	-10.19	88.72	104.00
11	AB	6726	DC	O3'-P-O5'	-10.19	88.72	104.00
31	C7	6	DC	O3'-P-O5'	-10.19	88.72	104.00
41	D6	45	DC	O3'-P-O5'	-10.19	88.72	104.00
22	B9	20	DC	O3'-P-O5'	-10.19	88.72	104.00
35	CC	15	DC	O3'-P-O5'	-10.19	88.72	104.00
50	E3	15	DC	O3'-P-O5'	-10.19	88.72	104.00
87	H8	12	DC	O3'-P-O5'	-10.19	88.72	104.00
197	S7	13	DC	O3'-P-O5'	-10.19	88.72	104.00
100	IA	11	DC	O3'-P-O5'	-10.19	88.72	104.00
104	J2	30	DC	O3'-P-O5'	-10.19	88.72	104.00
110	J9	21	DC	O3'-P-O5'	-10.19	88.72	104.00
118	K6	11	DC	O3'-P-O5'	-10.19	88.72	104.00
119	K7	33	DC	O3'-P-O5'	-10.19	88.72	104.00
126	L2	46	DC	O3'-P-O5'	-10.19	88.72	104.00
148	N5	14	DC	O3'-P-O5'	-10.19	88.72	104.00
158	O5	51	DC	O3'-P-O5'	-10.19	88.72	104.00
161	O8	17	DC	O3'-P-O5'	-10.19	88.72	104.00
176	Q2	11	DC	O3'-P-O5'	-10.19	88.72	104.00
214	U5	10	DC	O3'-P-O5'	-10.19	88.72	104.00
3	A3	2	DC	O3'-P-O5'	-10.18	88.73	104.00
7	A7	16	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	48	DC	O3'-P-O5'	-10.18	88.72	104.00
11	AB	237	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	280	DC	O3'-P-O5'	-10.18	88.72	104.00
11	AB	743	DC	O3'-P-O5'	-10.18	88.72	104.00
97	I7	28	DC	O3'-P-O5'	-10.18	88.72	104.00
11	AB	322	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	469	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	662	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	1185	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	1210	DC	O3'-P-O5'	-10.18	88.72	104.00
11	AB	2497	DC	O3'-P-O5'	-10.18	88.72	104.00
11	AB	2881	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	2897	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	2969	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	3462	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	3665	DC	O3'-P-O5'	-10.18	88.72	104.00
11	AB	3904	DC	O3'-P-O5'	-10.18	88.72	104.00
11	AB	5146	DC	O3'-P-O5'	-10.18	88.72	104.00
11	AB	5663	DC	O3'-P-O5'	-10.18	88.72	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6470	DC	O3'-P-O5'	-10.18	88.72	104.00
171	P8	12	DC	O3'-P-O5'	-10.18	88.72	104.00
11	AB	3919	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	4049	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	4373	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	4810	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	4829	DC	O3'-P-O5'	-10.18	88.72	104.00
11	AB	6551	DC	O3'-P-O5'	-10.18	88.72	104.00
11	AB	4877	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	5137	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	6410	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	7131	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	7239	DC	O3'-P-O5'	-10.18	88.72	104.00
14	B1	34	DC	O3'-P-O5'	-10.18	88.73	104.00
20	B7	19	DC	O3'-P-O5'	-10.18	88.72	104.00
74	G6	36	DC	O3'-P-O5'	-10.18	88.72	104.00
189	R8	8	DC	O3'-P-O5'	-10.18	88.72	104.00
54	E8	29	DC	O3'-P-O5'	-10.18	88.73	104.00
96	I6	18	DC	O3'-P-O5'	-10.18	88.73	104.00
117	K5	10	DC	O3'-P-O5'	-10.18	88.73	104.00
120	K8	21	DC	O3'-P-O5'	-10.18	88.73	104.00
132	L9	16	DC	O3'-P-O5'	-10.18	88.73	104.00
147	N3	10	DC	O3'-P-O5'	-10.18	88.72	104.00
149	N6	47	DC	O3'-P-O5'	-10.18	88.73	104.00
181	Q9	22	DC	O3'-P-O5'	-10.18	88.73	104.00
187	R5	39	DC	O3'-P-O5'	-10.18	88.73	104.00
208	T9	18	DC	O3'-P-O5'	-10.18	88.73	104.00
4	A4	6	DC	O3'-P-O5'	-10.18	88.73	104.00
5	A5	32	DC	O3'-P-O5'	-10.18	88.73	104.00
5	A5	34	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	1054	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	1270	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	2179	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	2392	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	3910	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	4149	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	6614	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	175	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	263	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	2609	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	3641	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	4494	DC	O3'-P-O5'	-10.18	88.73	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4615	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	5716	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	5828	DC	O3'-P-O5'	-10.18	88.73	104.00
49	E2	24	DC	O3'-P-O5'	-10.18	88.73	104.00
93	I2	9	DC	O3'-P-O5'	-10.18	88.73	104.00
96	I6	15	DC	O3'-P-O5'	-10.18	88.73	104.00
127	L3	5	DC	O3'-P-O5'	-10.18	88.73	104.00
220	UD	10	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	299	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	370	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	4899	DC	O3'-P-O5'	-10.18	88.73	104.00
109	J8	15	DC	O3'-P-O5'	-10.18	88.73	104.00
161	O8	43	DC	O3'-P-O5'	-10.18	88.73	104.00
169	P6	20	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	764	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	1670	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	2915	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	3003	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	3454	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	7013	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	3470	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	3902	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	3977	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	4500	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	4635	DC	O3'-P-O5'	-10.18	88.73	104.00
13	AD	34	DC	O3'-P-O5'	-10.18	88.73	104.00
43	D8	31	DC	O3'-P-O5'	-10.18	88.73	104.00
55	E9	23	DC	O3'-P-O5'	-10.18	88.73	104.00
91	HD	20	DC	O3'-P-O5'	-10.18	88.73	104.00
116	K3	21	DC	O3'-P-O5'	-10.18	88.73	104.00
124	KD	14	DC	O3'-P-O5'	-10.18	88.73	104.00
126	L2	8	DC	O3'-P-O5'	-10.18	88.73	104.00
138	M5	30	DC	O3'-P-O5'	-10.18	88.73	104.00
160	O7	31	DC	O3'-P-O5'	-10.18	88.73	104.00
197	S7	21	DC	O3'-P-O5'	-10.18	88.73	104.00
232	W7	25	DC	O3'-P-O5'	-10.18	88.73	104.00
236	X5	7	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	4999	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	5499	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	6241	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	6392	DC	O3'-P-O5'	-10.18	88.73	104.00
63	F6	12	DC	O3'-P-O5'	-10.18	88.73	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
77	G9	1	DC	O3'-P-O5'	-10.18	88.73	104.00
82	H2	25	DC	O3'-P-O5'	-10.18	88.73	104.00
107	J6	23	DC	O3'-P-O5'	-10.18	88.73	104.00
111	JA	18	DC	O3'-P-O5'	-10.18	88.73	104.00
122	KA	8	DC	O3'-P-O5'	-10.18	88.73	104.00
126	L2	29	DC	O3'-P-O5'	-10.18	88.73	104.00
135	LD	17	DC	O3'-P-O5'	-10.18	88.73	104.00
156	O2	33	DC	O3'-P-O5'	-10.18	88.73	104.00
166	P2	33	DC	O3'-P-O5'	-10.18	88.73	104.00
167	P3	19	DC	O3'-P-O5'	-10.18	88.73	104.00
177	Q3	15	DC	O3'-P-O5'	-10.18	88.73	104.00
194	S2	2	DC	O3'-P-O5'	-10.18	88.73	104.00
212	U2	26	DC	O3'-P-O5'	-10.18	88.73	104.00
238	X9	22	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	79	DC	O3'-P-O5'	-10.18	88.74	104.00
11	AB	115	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	1353	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	1899	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	4785	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	6555	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	6835	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	308	DC	O3'-P-O5'	-10.18	88.74	104.00
11	AB	694	DC	O3'-P-O5'	-10.18	88.74	104.00
11	AB	712	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	3047	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	4569	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	5850	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	1600	DC	O3'-P-O5'	-10.18	88.74	104.00
11	AB	4189	DC	O3'-P-O5'	-10.18	88.74	104.00
11	AB	5311	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	5825	DC	O3'-P-O5'	-10.18	88.74	104.00
11	AB	5870	DC	O3'-P-O5'	-10.18	88.74	104.00
11	AB	5926	DC	O3'-P-O5'	-10.18	88.74	104.00
60	F2	7	DC	O3'-P-O5'	-10.18	88.73	104.00
117	K5	29	DC	O3'-P-O5'	-10.18	88.73	104.00
125	L1	41	DC	O3'-P-O5'	-10.18	88.73	104.00
11	AB	6051	DC	O3'-P-O5'	-10.18	88.74	104.00
11	AB	6224	DC	O3'-P-O5'	-10.18	88.74	104.00
12	AC	7	DC	O3'-P-O5'	-10.18	88.74	104.00
88	H9	12	DC	O3'-P-O5'	-10.18	88.74	104.00
99	I9	18	DC	O3'-P-O5'	-10.18	88.74	104.00
146	N2	15	DC	O3'-P-O5'	-10.18	88.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
197	S7	8	DC	O3'-P-O5'	-10.18	88.73	104.00
162	O9	18	DC	O3'-P-O5'	-10.18	88.74	104.00
197	S7	15	DC	O3'-P-O5'	-10.18	88.74	104.00
210	TC	27	DC	O3'-P-O5'	-10.18	88.74	104.00
225	V8	26	DC	O3'-P-O5'	-10.18	88.74	104.00
237	X7	17	DC	O3'-P-O5'	-10.18	88.74	104.00
10	AA	12	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	169	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	312	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	500	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	1420	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	6194	DC	O3'-P-O5'	-10.17	88.74	104.00
46	DC	21	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	519	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	889	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	2211	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	2535	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	2684	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	3835	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	4108	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	4592	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	5476	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	5853	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	6005	DC	O3'-P-O5'	-10.17	88.74	104.00
63	F6	15	DC	O3'-P-O5'	-10.17	88.74	104.00
72	G3	2	DC	O3'-P-O5'	-10.17	88.74	104.00
109	J8	47	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	1730	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	2742	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	3260	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	3374	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	3495	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	3854	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	5246	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	5546	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	5631	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	5989	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	6202	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	6381	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	6827	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	6866	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	6919	DC	O3'-P-O5'	-10.17	88.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7114	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	7166	DC	O3'-P-O5'	-10.17	88.74	104.00
21	B8	3	DC	O3'-P-O5'	-10.17	88.74	104.00
75	G7	15	DC	O3'-P-O5'	-10.17	88.74	104.00
138	M5	2	DC	O3'-P-O5'	-10.17	88.74	104.00
19	B6	22	DC	O3'-P-O5'	-10.17	88.74	104.00
32	C8	5	DC	O3'-P-O5'	-10.17	88.74	104.00
74	G6	22	DC	O3'-P-O5'	-10.17	88.74	104.00
84	H5	25	DC	O3'-P-O5'	-10.17	88.74	104.00
93	I2	31	DC	O3'-P-O5'	-10.17	88.74	104.00
98	I8	21	DC	O3'-P-O5'	-10.17	88.74	104.00
99	I9	3	DC	O3'-P-O5'	-10.17	88.74	104.00
140	M7	17	DC	O3'-P-O5'	-10.17	88.74	104.00
148	N5	21	DC	O3'-P-O5'	-10.17	88.74	104.00
154	NC	28	DC	O3'-P-O5'	-10.17	88.74	104.00
158	O5	14	DC	O3'-P-O5'	-10.17	88.74	104.00
181	Q9	17	DC	O3'-P-O5'	-10.17	88.74	104.00
193	RD	5	DC	O3'-P-O5'	-10.17	88.74	104.00
198	S8	37	DC	O3'-P-O5'	-10.17	88.74	104.00
213	U3	22	DC	O3'-P-O5'	-10.17	88.74	104.00
214	U5	15	DC	O3'-P-O5'	-10.17	88.74	104.00
219	UC	25	DC	O3'-P-O5'	-10.17	88.74	104.00
224	V7	12	DC	O3'-P-O5'	-10.17	88.74	104.00
215	U7	7	DC	O3'-P-O5'	-10.17	88.74	104.00
235	WD	8	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	118	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	128	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	490	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	505	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	1000	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	1786	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	1400	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	1478	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	1872	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	1884	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	2015	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	2147	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	4692	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	4712	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	5161	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	6139	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	6284	DC	O3'-P-O5'	-10.17	88.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	AD	9	DC	O3'-P-O5'	-10.17	88.74	104.00
44	D9	1	DC	O3'-P-O5'	-10.17	88.74	104.00
97	I7	22	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	2664	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	2879	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	3875	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	4122	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	4860	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	4983	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	6065	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	6383	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	6547	DC	O3'-P-O5'	-10.17	88.74	104.00
11	AB	7161	DC	O3'-P-O5'	-10.17	88.75	104.00
13	AD	18	DC	O3'-P-O5'	-10.17	88.75	104.00
13	AD	29	DC	O3'-P-O5'	-10.17	88.74	104.00
18	B5	6	DC	O3'-P-O5'	-10.17	88.75	104.00
31	C7	17	DC	O3'-P-O5'	-10.17	88.74	104.00
36	CD	1	DC	O3'-P-O5'	-10.17	88.74	104.00
41	D6	20	DC	O3'-P-O5'	-10.17	88.74	104.00
43	D8	10	DC	O3'-P-O5'	-10.17	88.74	104.00
85	H6	24	DC	O3'-P-O5'	-10.17	88.74	104.00
94	I3	5	DC	O3'-P-O5'	-10.17	88.74	104.00
80	GD	5	DC	O3'-P-O5'	-10.17	88.75	104.00
85	H6	11	DC	O3'-P-O5'	-10.17	88.75	104.00
86	H7	6	DC	O3'-P-O5'	-10.17	88.74	104.00
112	JC	6	DC	O3'-P-O5'	-10.17	88.75	104.00
117	K5	23	DC	O3'-P-O5'	-10.17	88.74	104.00
122	KA	46	DC	O3'-P-O5'	-10.17	88.75	104.00
140	M7	11	DC	O3'-P-O5'	-10.17	88.75	104.00
147	N3	34	DC	O3'-P-O5'	-10.17	88.75	104.00
149	N6	19	DC	O3'-P-O5'	-10.17	88.75	104.00
164	OC	6	DC	O3'-P-O5'	-10.17	88.74	104.00
232	W7	20	DC	O3'-P-O5'	-10.17	88.75	104.00
234	W9	18	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	2277	DC	O3'-P-O5'	-10.17	88.75	104.00
7	A7	31	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	538	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	769	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	1602	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	1743	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	3254	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	3608	DC	O3'-P-O5'	-10.17	88.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3793	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	4888	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	7229	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	7232	DC	O3'-P-O5'	-10.17	88.75	104.00
61	F3	21	DC	O3'-P-O5'	-10.17	88.75	104.00
206	T7	30	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	1867	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	1893	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	2079	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	3064	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	3107	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	4129	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	4287	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	4931	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	6091	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	6355	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	6506	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	6909	DC	O3'-P-O5'	-10.17	88.75	104.00
11	AB	7147	DC	O3'-P-O5'	-10.17	88.75	104.00
27	C2	12	DC	O3'-P-O5'	-10.17	88.75	104.00
47	DD	20	DC	O3'-P-O5'	-10.17	88.75	104.00
64	F7	7	DC	O3'-P-O5'	-10.17	88.75	104.00
71	G2	6	DC	O3'-P-O5'	-10.17	88.75	104.00
180	Q8	6	DC	O3'-P-O5'	-10.17	88.75	104.00
15	B2	8	DC	O3'-P-O5'	-10.17	88.75	104.00
18	B5	37	DC	O3'-P-O5'	-10.17	88.75	104.00
19	B6	12	DC	O3'-P-O5'	-10.17	88.75	104.00
27	C2	7	DC	O3'-P-O5'	-10.17	88.75	104.00
30	C6	19	DC	O3'-P-O5'	-10.17	88.75	104.00
45	DA	7	DC	O3'-P-O5'	-10.17	88.75	104.00
48	E1	9	DC	O3'-P-O5'	-10.17	88.75	104.00
52	E6	24	DC	O3'-P-O5'	-10.17	88.75	104.00
69	FD	32	DC	O3'-P-O5'	-10.17	88.75	104.00
72	G3	15	DC	O3'-P-O5'	-10.17	88.75	104.00
75	G7	6	DC	O3'-P-O5'	-10.17	88.75	104.00
77	G9	12	DC	O3'-P-O5'	-10.17	88.75	104.00
79	GC	8	DC	O3'-P-O5'	-10.17	88.75	104.00
83	H3	16	DC	O3'-P-O5'	-10.17	88.75	104.00
89	HA	22	DC	O3'-P-O5'	-10.17	88.75	104.00
146	N2	1	DC	O3'-P-O5'	-10.17	88.75	104.00
156	O2	23	DC	O3'-P-O5'	-10.17	88.75	104.00
169	P6	14	DC	O3'-P-O5'	-10.17	88.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
103	J1	17	DC	O3'-P-O5'	-10.17	88.75	104.00
109	J8	3	DC	O3'-P-O5'	-10.17	88.75	104.00
137	M3	30	DC	O3'-P-O5'	-10.17	88.75	104.00
138	M5	4	DC	O3'-P-O5'	-10.17	88.75	104.00
145	MD	22	DC	O3'-P-O5'	-10.17	88.75	104.00
146	N2	5	DC	O3'-P-O5'	-10.17	88.75	104.00
205	T5	8	DC	O3'-P-O5'	-10.17	88.75	104.00
228	VC	20	DC	O3'-P-O5'	-10.17	88.75	104.00
2	A2	5	DC	O3'-P-O5'	-10.16	88.75	104.00
11	AB	1251	DC	O3'-P-O5'	-10.16	88.75	104.00
11	AB	5615	DC	O3'-P-O5'	-10.16	88.75	104.00
1	A1	11	DC	O3'-P-O5'	-10.16	88.76	104.00
6	A6	10	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	250	DC	O3'-P-O5'	-10.16	88.75	104.00
11	AB	819	DC	O3'-P-O5'	-10.16	88.75	104.00
11	AB	2059	DC	O3'-P-O5'	-10.16	88.75	104.00
11	AB	2398	DC	O3'-P-O5'	-10.16	88.75	104.00
11	AB	2650	DC	O3'-P-O5'	-10.16	88.75	104.00
11	AB	3898	DC	O3'-P-O5'	-10.16	88.75	104.00
11	AB	4155	DC	O3'-P-O5'	-10.16	88.75	104.00
30	C6	29	DC	O3'-P-O5'	-10.16	88.75	104.00
37	D1	19	DC	O3'-P-O5'	-10.16	88.75	104.00
46	DC	18	DC	O3'-P-O5'	-10.16	88.75	104.00
112	JC	13	DC	O3'-P-O5'	-10.16	88.75	104.00
118	K6	16	DC	O3'-P-O5'	-10.16	88.75	104.00
208	T9	21	DC	O3'-P-O5'	-10.16	88.75	104.00
11	AB	91	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	544	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	721	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	865	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	3713	DC	O3'-P-O5'	-10.16	88.75	104.00
44	D9	4	DC	O3'-P-O5'	-10.16	88.75	104.00
62	F5	25	DC	O3'-P-O5'	-10.16	88.75	104.00
71	G2	8	DC	O3'-P-O5'	-10.16	88.75	104.00
87	H8	24	DC	O3'-P-O5'	-10.16	88.75	104.00
190	R9	30	DC	O3'-P-O5'	-10.16	88.75	104.00
11	AB	1277	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	1475	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	1630	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	1655	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	1771	DC	O3'-P-O5'	-10.16	88.75	104.00
11	AB	2136	DC	O3'-P-O5'	-10.16	88.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2142	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	2230	DC	O3'-P-O5'	-10.16	88.75	104.00
11	AB	4512	DC	O3'-P-O5'	-10.16	88.75	104.00
11	AB	7149	DC	O3'-P-O5'	-10.16	88.75	104.00
49	E2	13	DC	O3'-P-O5'	-10.16	88.75	104.00
65	F8	1	DC	O3'-P-O5'	-10.16	88.75	104.00
74	G6	13	DC	O3'-P-O5'	-10.16	88.75	104.00
88	H9	5	DC	O3'-P-O5'	-10.16	88.75	104.00
103	J1	14	DC	O3'-P-O5'	-10.16	88.75	104.00
199	S9	15	DC	O3'-P-O5'	-10.16	88.75	104.00
11	AB	3113	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	4203	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	4478	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	4673	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	5624	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	5765	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	5963	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	6276	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	6978	DC	O3'-P-O5'	-10.16	88.75	104.00
24	BC	16	DC	O3'-P-O5'	-10.16	88.75	104.00
37	D1	29	DC	O3'-P-O5'	-10.16	88.75	104.00
32	C8	30	DC	O3'-P-O5'	-10.16	88.76	104.00
32	C8	48	DC	O3'-P-O5'	-10.16	88.76	104.00
43	D8	27	DC	O3'-P-O5'	-10.16	88.76	104.00
80	GD	14	DC	O3'-P-O5'	-10.16	88.75	104.00
46	DC	9	DC	O3'-P-O5'	-10.16	88.76	104.00
58	ED	12	DC	O3'-P-O5'	-10.16	88.76	104.00
62	F5	33	DC	O3'-P-O5'	-10.16	88.76	104.00
78	GA	16	DC	O3'-P-O5'	-10.16	88.76	104.00
82	H2	44	DC	O3'-P-O5'	-10.16	88.76	104.00
93	I2	5	DC	O3'-P-O5'	-10.16	88.76	104.00
114	K1	24	DC	O3'-P-O5'	-10.16	88.75	104.00
126	L2	19	DC	O3'-P-O5'	-10.16	88.76	104.00
130	L7	25	DC	O3'-P-O5'	-10.16	88.76	104.00
139	M6	10	DC	O3'-P-O5'	-10.16	88.76	104.00
158	O5	41	DC	O3'-P-O5'	-10.16	88.76	104.00
160	O7	2	DC	O3'-P-O5'	-10.16	88.76	104.00
160	O7	21	DC	O3'-P-O5'	-10.16	88.76	104.00
162	O9	8	DC	O3'-P-O5'	-10.16	88.76	104.00
163	OA	18	DC	O3'-P-O5'	-10.16	88.76	104.00
174	PC	24	DC	O3'-P-O5'	-10.16	88.75	104.00
190	R9	41	DC	O3'-P-O5'	-10.16	88.76	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
195	S3	14	DC	O3'-P-O5'	-10.16	88.75	104.00
209	TA	41	DC	O3'-P-O5'	-10.16	88.75	104.00
220	UD	22	DC	O3'-P-O5'	-10.16	88.75	104.00
212	U2	5	DC	O3'-P-O5'	-10.16	88.76	104.00
223	V5	11	DC	O3'-P-O5'	-10.16	88.75	104.00
6	A6	14	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	146	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	295	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	527	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	612	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	877	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	1081	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	1586	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	2647	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	3270	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	4159	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	5110	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	5143	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	6618	DC	O3'-P-O5'	-10.16	88.76	104.00
14	B1	5	DC	O3'-P-O5'	-10.16	88.76	104.00
41	D6	36	DC	O3'-P-O5'	-10.16	88.76	104.00
59	F1	11	DC	O3'-P-O5'	-10.16	88.76	104.00
99	I9	11	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	1598	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	2289	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	2383	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	2636	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	3437	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	3560	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	3807	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	6190	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	6314	DC	O3'-P-O5'	-10.16	88.76	104.00
20	B7	11	DC	O3'-P-O5'	-10.16	88.76	104.00
122	KA	18	DC	O3'-P-O5'	-10.16	88.76	104.00
188	R7	20	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	4406	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	4972	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	5059	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	5513	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	5633	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	6690	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	6756	DC	O3'-P-O5'	-10.16	88.76	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7141	DC	O3'-P-O5'	-10.16	88.76	104.00
104	J2	27	DC	O3'-P-O5'	-10.16	88.76	104.00
29	C5	26	DC	O3'-P-O5'	-10.16	88.76	104.00
48	E1	2	DC	O3'-P-O5'	-10.16	88.76	104.00
106	J5	24	DC	O3'-P-O5'	-10.16	88.76	104.00
212	U2	11	DC	O3'-P-O5'	-10.16	88.76	104.00
58	ED	39	DC	O3'-P-O5'	-10.16	88.76	104.00
68	FC	18	DC	O3'-P-O5'	-10.16	88.76	104.00
78	GA	6	DC	O3'-P-O5'	-10.16	88.76	104.00
79	GC	25	DC	O3'-P-O5'	-10.16	88.76	104.00
92	I1	18	DC	O3'-P-O5'	-10.16	88.76	104.00
99	I9	22	DC	O3'-P-O5'	-10.16	88.76	104.00
104	J2	32	DC	O3'-P-O5'	-10.16	88.76	104.00
121	K9	21	DC	O3'-P-O5'	-10.16	88.76	104.00
143	MA	18	DC	O3'-P-O5'	-10.16	88.76	104.00
143	MA	47	DC	O3'-P-O5'	-10.16	88.76	104.00
149	N6	7	DC	O3'-P-O5'	-10.16	88.76	104.00
158	O5	37	DC	O3'-P-O5'	-10.16	88.76	104.00
159	O6	16	DC	O3'-P-O5'	-10.16	88.76	104.00
188	R7	23	DC	O3'-P-O5'	-10.16	88.76	104.00
195	S3	11	DC	O3'-P-O5'	-10.16	88.76	104.00
213	U3	25	DC	O3'-P-O5'	-10.16	88.76	104.00
226	V9	31	DC	O3'-P-O5'	-10.16	88.76	104.00
231	W5	32	DC	O3'-P-O5'	-10.16	88.76	104.00
1	A1	7	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	1662	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	1714	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	5535	DC	O3'-P-O5'	-10.16	88.76	104.00
67	FA	12	DC	O3'-P-O5'	-10.16	88.76	104.00
1	A1	21	DC	O3'-P-O5'	-10.16	88.77	104.00
1	A1	34	DC	O3'-P-O5'	-10.16	88.77	104.00
2	A2	14	DC	O3'-P-O5'	-10.16	88.77	104.00
7	A7	37	DC	O3'-P-O5'	-10.16	88.77	104.00
11	AB	198	DC	O3'-P-O5'	-10.16	88.77	104.00
11	AB	229	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	636	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	3053	DC	O3'-P-O5'	-10.16	88.76	104.00
104	J2	37	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	677	DC	O3'-P-O5'	-10.16	88.77	104.00
11	AB	707	DC	O3'-P-O5'	-10.16	88.77	104.00
11	AB	1061	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	1230	DC	O3'-P-O5'	-10.16	88.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3215	DC	O3'-P-O5'	-10.16	88.77	104.00
11	AB	3770	DC	O3'-P-O5'	-10.16	88.77	104.00
11	AB	3968	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	4168	DC	O3'-P-O5'	-10.16	88.77	104.00
11	AB	4851	DC	O3'-P-O5'	-10.16	88.77	104.00
11	AB	4910	DC	O3'-P-O5'	-10.16	88.77	104.00
11	AB	5218	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	5478	DC	O3'-P-O5'	-10.16	88.77	104.00
11	AB	5678	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	5705	DC	O3'-P-O5'	-10.16	88.77	104.00
11	AB	5831	DC	O3'-P-O5'	-10.16	88.77	104.00
11	AB	6538	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	5890	DC	O3'-P-O5'	-10.16	88.77	104.00
11	AB	6118	DC	O3'-P-O5'	-10.16	88.77	104.00
11	AB	6147	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	6395	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	6401	DC	O3'-P-O5'	-10.16	88.76	104.00
11	AB	6607	DC	O3'-P-O5'	-10.16	88.76	104.00
36	CD	23	DC	O3'-P-O5'	-10.16	88.77	104.00
44	D9	13	DC	O3'-P-O5'	-10.16	88.76	104.00
47	DD	8	DC	O3'-P-O5'	-10.16	88.76	104.00
54	E8	15	DC	O3'-P-O5'	-10.16	88.76	104.00
125	L1	26	DC	O3'-P-O5'	-10.16	88.76	104.00
133	LA	15	DC	O3'-P-O5'	-10.16	88.76	104.00
149	N6	12	DC	O3'-P-O5'	-10.16	88.76	104.00
157	O3	7	DC	O3'-P-O5'	-10.16	88.76	104.00
60	F2	14	DC	O3'-P-O5'	-10.16	88.77	104.00
67	FA	19	DC	O3'-P-O5'	-10.16	88.77	104.00
82	H2	6	DC	O3'-P-O5'	-10.16	88.77	104.00
175	PD	1	DC	O3'-P-O5'	-10.16	88.76	104.00
203	T2	11	DC	O3'-P-O5'	-10.16	88.76	104.00
204	T3	9	DC	O3'-P-O5'	-10.16	88.76	104.00
116	K3	8	DC	O3'-P-O5'	-10.16	88.77	104.00
124	KD	1	DC	O3'-P-O5'	-10.16	88.77	104.00
126	L2	58	DC	O3'-P-O5'	-10.16	88.77	104.00
228	VC	13	DC	O3'-P-O5'	-10.16	88.76	104.00
237	X7	15	DC	O3'-P-O5'	-10.16	88.76	104.00
143	MA	36	DC	O3'-P-O5'	-10.16	88.77	104.00
147	N3	21	DC	O3'-P-O5'	-10.16	88.77	104.00
156	O2	2	DC	O3'-P-O5'	-10.16	88.77	104.00
161	O8	20	DC	O3'-P-O5'	-10.16	88.77	104.00
161	O8	30	DC	O3'-P-O5'	-10.16	88.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
171	P8	14	DC	O3'-P-O5'	-10.16	88.77	104.00
193	RD	8	DC	O3'-P-O5'	-10.16	88.76	104.00
204	T3	29	DC	O3'-P-O5'	-10.16	88.76	104.00
238	X9	33	DC	O3'-P-O5'	-10.16	88.77	104.00
11	AB	463	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	588	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	728	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	1319	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	1833	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	1924	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	2152	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	2275	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	2529	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	2554	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	2730	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	2746	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	2764	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	3110	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	4765	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	6988	DC	O3'-P-O5'	-10.15	88.77	104.00
95	I5	3	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	3359	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	3699	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	3921	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	6196	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	4013	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	4250	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	4490	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	5040	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	5602	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	5637	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	5757	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	6659	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	6053	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	6647	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	7118	DC	O3'-P-O5'	-10.15	88.77	104.00
37	D1	1	DC	O3'-P-O5'	-10.15	88.77	104.00
48	E1	18	DC	O3'-P-O5'	-10.15	88.77	104.00
48	E1	32	DC	O3'-P-O5'	-10.15	88.77	104.00
187	R5	1	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	6661	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	6903	DC	O3'-P-O5'	-10.15	88.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7021	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	7139	DC	O3'-P-O5'	-10.15	88.77	104.00
18	B5	22	DC	O3'-P-O5'	-10.15	88.77	104.00
18	B5	25	DC	O3'-P-O5'	-10.15	88.77	104.00
32	C8	34	DC	O3'-P-O5'	-10.15	88.77	104.00
32	C8	40	DC	O3'-P-O5'	-10.15	88.77	104.00
81	H1	10	DC	O3'-P-O5'	-10.15	88.77	104.00
82	H2	8	DC	O3'-P-O5'	-10.15	88.77	104.00
84	H5	31	DC	O3'-P-O5'	-10.15	88.77	104.00
90	HC	10	DC	O3'-P-O5'	-10.15	88.77	104.00
94	I3	21	DC	O3'-P-O5'	-10.15	88.77	104.00
104	J2	22	DC	O3'-P-O5'	-10.15	88.77	104.00
106	J5	2	DC	O3'-P-O5'	-10.15	88.77	104.00
145	MD	25	DC	O3'-P-O5'	-10.15	88.77	104.00
156	O2	50	DC	O3'-P-O5'	-10.15	88.77	104.00
195	S3	3	DC	O3'-P-O5'	-10.15	88.77	104.00
223	V5	30	DC	O3'-P-O5'	-10.15	88.77	104.00
160	O7	45	DC	O3'-P-O5'	-10.15	88.77	104.00
161	O8	38	DC	O3'-P-O5'	-10.15	88.77	104.00
189	R8	23	DC	O3'-P-O5'	-10.15	88.77	104.00
189	R8	38	DC	O3'-P-O5'	-10.15	88.77	104.00
202	SD	19	DC	O3'-P-O5'	-10.15	88.77	104.00
209	TA	1	DC	O3'-P-O5'	-10.15	88.77	104.00
227	VA	1	DC	O3'-P-O5'	-10.15	88.77	104.00
230	W3	31	DC	O3'-P-O5'	-10.15	88.77	104.00
237	X7	13	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	62	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	813	DC	O3'-P-O5'	-10.15	88.77	104.00
30	C6	23	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	758	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	837	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	902	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	994	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	2854	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	3301	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	3346	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	4026	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	4379	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	4382	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	4565	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	4771	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	5759	DC	O3'-P-O5'	-10.15	88.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6855	DC	O3'-P-O5'	-10.15	88.77	104.00
60	F2	34	DC	O3'-P-O5'	-10.15	88.77	104.00
64	F7	17	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	4696	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	4913	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	4926	DC	O3'-P-O5'	-10.15	88.77	104.00
11	AB	5431	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	5902	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	6025	DC	O3'-P-O5'	-10.15	88.78	104.00
45	DA	16	DC	O3'-P-O5'	-10.15	88.77	104.00
62	F5	43	DC	O3'-P-O5'	-10.15	88.77	104.00
82	H2	12	DC	O3'-P-O5'	-10.15	88.77	104.00
97	I7	5	DC	O3'-P-O5'	-10.15	88.77	104.00
98	I8	13	DC	O3'-P-O5'	-10.15	88.77	104.00
117	K5	48	DC	O3'-P-O5'	-10.15	88.77	104.00
167	P3	35	DC	O3'-P-O5'	-10.15	88.77	104.00
198	S8	14	DC	O3'-P-O5'	-10.15	88.77	104.00
76	G8	8	DC	O3'-P-O5'	-10.15	88.78	104.00
120	K8	2	DC	O3'-P-O5'	-10.15	88.78	104.00
131	L8	8	DC	O3'-P-O5'	-10.15	88.78	104.00
140	M7	14	DC	O3'-P-O5'	-10.15	88.77	104.00
184	QD	23	DC	O3'-P-O5'	-10.15	88.77	104.00
165	OD	44	DC	O3'-P-O5'	-10.15	88.78	104.00
209	TA	34	DC	O3'-P-O5'	-10.15	88.77	104.00
238	X9	12	DC	O3'-P-O5'	-10.15	88.77	104.00
7	A7	6	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	672	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	848	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	887	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	2190	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	2462	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	2658	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	2771	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	2837	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	4369	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	4452	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	4530	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	4929	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	5960	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	5985	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	6359	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	6840	DC	O3'-P-O5'	-10.15	88.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	D1	37	DC	O3'-P-O5'	-10.15	88.78	104.00
54	E8	6	DC	O3'-P-O5'	-10.15	88.78	104.00
62	F5	4	DC	O3'-P-O5'	-10.15	88.78	104.00
75	G7	3	DC	O3'-P-O5'	-10.15	88.78	104.00
105	J3	23	DC	O3'-P-O5'	-10.15	88.78	104.00
115	K2	21	DC	O3'-P-O5'	-10.15	88.78	104.00
142	M9	6	DC	O3'-P-O5'	-10.15	88.78	104.00
160	O7	40	DC	O3'-P-O5'	-10.15	88.78	104.00
189	R8	19	DC	O3'-P-O5'	-10.15	88.78	104.00
216	U8	16	DC	O3'-P-O5'	-10.15	88.78	104.00
231	W5	16	DC	O3'-P-O5'	-10.15	88.78	104.00
235	WD	16	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	343	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	1078	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	1466	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	2613	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	3187	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	4261	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	4362	DC	O3'-P-O5'	-10.15	88.78	104.00
158	O5	21	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	5114	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	5120	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	5416	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	5626	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	6082	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	6703	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	6876	DC	O3'-P-O5'	-10.15	88.78	104.00
174	PC	8	DC	O3'-P-O5'	-10.15	88.78	104.00
14	B1	41	DC	O3'-P-O5'	-10.15	88.78	104.00
45	DA	25	DC	O3'-P-O5'	-10.15	88.78	104.00
52	E6	18	DC	O3'-P-O5'	-10.15	88.78	104.00
73	G5	3	DC	O3'-P-O5'	-10.15	88.78	104.00
82	H2	22	DC	O3'-P-O5'	-10.15	88.78	104.00
93	I2	26	DC	O3'-P-O5'	-10.15	88.78	104.00
94	I3	11	DC	O3'-P-O5'	-10.15	88.78	104.00
104	J2	5	DC	O3'-P-O5'	-10.15	88.78	104.00
117	K5	8	DC	O3'-P-O5'	-10.15	88.78	104.00
125	L1	20	DC	O3'-P-O5'	-10.15	88.78	104.00
114	K1	1	DC	O3'-P-O5'	-10.15	88.78	104.00
126	L2	40	DC	O3'-P-O5'	-10.15	88.78	104.00
136	M2	19	DC	O3'-P-O5'	-10.15	88.78	104.00
187	R5	16	DC	O3'-P-O5'	-10.15	88.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
204	T3	26	DC	O3'-P-O5'	-10.15	88.78	104.00
238	X9	44	DC	O3'-P-O5'	-10.15	88.78	104.00
137	M3	32	DC	O3'-P-O5'	-10.15	88.78	104.00
139	M6	24	DC	O3'-P-O5'	-10.15	88.78	104.00
140	M7	6	DC	O3'-P-O5'	-10.15	88.78	104.00
149	N6	39	DC	O3'-P-O5'	-10.15	88.78	104.00
156	O2	46	DC	O3'-P-O5'	-10.15	88.78	104.00
152	N9	19	DC	O3'-P-O5'	-10.15	88.78	104.00
164	OC	24	DC	O3'-P-O5'	-10.15	88.78	104.00
184	QD	5	DC	O3'-P-O5'	-10.15	88.78	104.00
185	R2	16	DC	O3'-P-O5'	-10.15	88.78	104.00
194	S2	22	DC	O3'-P-O5'	-10.15	88.78	104.00
198	S8	19	DC	O3'-P-O5'	-10.15	88.78	104.00
199	S9	12	DC	O3'-P-O5'	-10.15	88.78	104.00
211	TD	30	DC	O3'-P-O5'	-10.15	88.78	104.00
214	U5	3	DC	O3'-P-O5'	-10.15	88.78	104.00
220	UD	13	DC	O3'-P-O5'	-10.15	88.78	104.00
11	AB	3057	DC	O3'-P-O5'	-10.14	88.78	104.00
11	AB	3412	DC	O3'-P-O5'	-10.14	88.78	104.00
11	AB	3750	DC	O3'-P-O5'	-10.14	88.78	104.00
11	AB	4401	DC	O3'-P-O5'	-10.14	88.78	104.00
11	AB	4526	DC	O3'-P-O5'	-10.14	88.78	104.00
11	AB	5372	DC	O3'-P-O5'	-10.14	88.78	104.00
11	AB	5491	DC	O3'-P-O5'	-10.14	88.78	104.00
55	E9	25	DC	O3'-P-O5'	-10.14	88.78	104.00
1	A1	45	DC	O3'-P-O5'	-10.14	88.78	104.00
7	A7	23	DC	O3'-P-O5'	-10.14	88.78	104.00
11	AB	4504	DC	O3'-P-O5'	-10.14	88.78	104.00
11	AB	4945	DC	O3'-P-O5'	-10.14	88.78	104.00
11	AB	5451	DC	O3'-P-O5'	-10.14	88.78	104.00
11	AB	6212	DC	O3'-P-O5'	-10.14	88.78	104.00
11	AB	6371	DC	O3'-P-O5'	-10.14	88.78	104.00
11	AB	6464	DC	O3'-P-O5'	-10.14	88.78	104.00
11	AB	6731	DC	O3'-P-O5'	-10.14	88.78	104.00
11	AB	6852	DC	O3'-P-O5'	-10.14	88.78	104.00
48	E1	30	DC	O3'-P-O5'	-10.14	88.78	104.00
63	F6	21	DC	O3'-P-O5'	-10.14	88.78	104.00
121	K9	7	DC	O3'-P-O5'	-10.14	88.78	104.00
11	AB	7120	DC	O3'-P-O5'	-10.14	88.78	104.00
29	C5	19	DC	O3'-P-O5'	-10.14	88.79	104.00
36	CD	9	DC	O3'-P-O5'	-10.14	88.78	104.00
41	D6	22	DC	O3'-P-O5'	-10.14	88.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	E2	19	DC	O3'-P-O5'	-10.14	88.78	104.00
52	E6	26	DC	O3'-P-O5'	-10.14	88.78	104.00
58	ED	17	DC	O3'-P-O5'	-10.14	88.78	104.00
66	F9	12	DC	O3'-P-O5'	-10.14	88.78	104.00
127	L3	2	DC	O3'-P-O5'	-10.14	88.78	104.00
59	F1	13	DC	O3'-P-O5'	-10.14	88.78	104.00
107	J6	18	DC	O3'-P-O5'	-10.14	88.78	104.00
109	J8	18	DC	O3'-P-O5'	-10.14	88.78	104.00
138	M5	13	DC	O3'-P-O5'	-10.14	88.78	104.00
139	M6	2	DC	O3'-P-O5'	-10.14	88.78	104.00
164	OC	17	DC	O3'-P-O5'	-10.14	88.78	104.00
175	PD	11	DC	O3'-P-O5'	-10.14	88.78	104.00
200	SA	15	DC	O3'-P-O5'	-10.14	88.78	104.00
206	T7	32	DC	O3'-P-O5'	-10.14	88.78	104.00
145	MD	42	DC	O3'-P-O5'	-10.14	88.79	104.00
173	PA	29	DC	O3'-P-O5'	-10.14	88.79	104.00
178	Q5	22	DC	O3'-P-O5'	-10.14	88.79	104.00
192	RC	5	DC	O3'-P-O5'	-10.14	88.78	104.00
193	RD	19	DC	O3'-P-O5'	-10.14	88.78	104.00
6	A6	17	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	643	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	702	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	3371	DC	O3'-P-O5'	-10.14	88.79	104.00
223	V5	26	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	2103	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	2467	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	2563	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	2744	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	4077	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	4164	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	4299	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	4668	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	4840	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	5170	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	5255	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	5738	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	5750	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	6043	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	6706	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	6934	DC	O3'-P-O5'	-10.14	88.79	104.00
52	E6	35	DC	O3'-P-O5'	-10.14	88.79	104.00
71	G2	20	DC	O3'-P-O5'	-10.14	88.79	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
75	G7	10	DC	O3'-P-O5'	-10.14	88.79	104.00
93	I2	13	DC	O3'-P-O5'	-10.14	88.79	104.00
18	B5	9	DC	O3'-P-O5'	-10.14	88.79	104.00
29	C5	14	DC	O3'-P-O5'	-10.14	88.79	104.00
60	F2	2	DC	O3'-P-O5'	-10.14	88.79	104.00
62	F5	14	DC	O3'-P-O5'	-10.14	88.79	104.00
105	J3	31	DC	O3'-P-O5'	-10.14	88.79	104.00
82	H2	40	DC	O3'-P-O5'	-10.14	88.79	104.00
92	I1	8	DC	O3'-P-O5'	-10.14	88.79	104.00
130	L7	22	DC	O3'-P-O5'	-10.14	88.79	104.00
165	OD	39	DC	O3'-P-O5'	-10.14	88.79	104.00
134	LC	8	DC	O3'-P-O5'	-10.14	88.79	104.00
137	M3	8	DC	O3'-P-O5'	-10.14	88.79	104.00
143	MA	22	DC	O3'-P-O5'	-10.14	88.79	104.00
165	OD	1	DC	O3'-P-O5'	-10.14	88.79	104.00
174	PC	12	DC	O3'-P-O5'	-10.14	88.79	104.00
189	R8	29	DC	O3'-P-O5'	-10.14	88.79	104.00
192	RC	12	DC	O3'-P-O5'	-10.14	88.79	104.00
205	T5	4	DC	O3'-P-O5'	-10.14	88.79	104.00
206	T7	3	DC	O3'-P-O5'	-10.14	88.79	104.00
237	X7	20	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	241	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	1367	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	3859	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	5037	DC	O3'-P-O5'	-10.14	88.79	104.00
211	TD	11	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	1431	DC	O3'-P-O5'	-10.14	88.80	104.00
11	AB	1624	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	1790	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	1887	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	1915	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	2580	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	2997	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	3085	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	3590	DC	O3'-P-O5'	-10.14	88.80	104.00
11	AB	4473	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	4546	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	5106	DC	O3'-P-O5'	-10.14	88.79	104.00
61	F3	1	DC	O3'-P-O5'	-10.14	88.79	104.00
161	O8	34	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	5334	DC	O3'-P-O5'	-10.14	88.80	104.00
11	AB	5427	DC	O3'-P-O5'	-10.14	88.80	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5773	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	6059	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	6289	DC	O3'-P-O5'	-10.14	88.79	104.00
21	B8	8	DC	O3'-P-O5'	-10.14	88.79	104.00
39	D3	13	DC	O3'-P-O5'	-10.14	88.79	104.00
156	O2	57	DC	O3'-P-O5'	-10.14	88.79	104.00
183	QC	7	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	6927	DC	O3'-P-O5'	-10.14	88.80	104.00
35	CC	32	DC	O3'-P-O5'	-10.14	88.79	104.00
36	CD	12	DC	O3'-P-O5'	-10.14	88.80	104.00
52	E6	13	DC	O3'-P-O5'	-10.14	88.79	104.00
53	E7	17	DC	O3'-P-O5'	-10.14	88.79	104.00
56	EA	22	DC	O3'-P-O5'	-10.14	88.79	104.00
75	G7	19	DC	O3'-P-O5'	-10.14	88.79	104.00
90	HC	17	DC	O3'-P-O5'	-10.14	88.79	104.00
91	HD	11	DC	O3'-P-O5'	-10.14	88.79	104.00
100	IA	9	DC	O3'-P-O5'	-10.14	88.79	104.00
102	ID	13	DC	O3'-P-O5'	-10.14	88.79	104.00
114	K1	17	DC	O3'-P-O5'	-10.14	88.79	104.00
140	M7	2	DC	O3'-P-O5'	-10.14	88.79	104.00
200	SA	27	DC	O3'-P-O5'	-10.14	88.79	104.00
152	N9	34	DC	O3'-P-O5'	-10.14	88.80	104.00
164	OC	20	DC	O3'-P-O5'	-10.14	88.79	104.00
179	Q7	18	DC	O3'-P-O5'	-10.14	88.80	104.00
184	QD	15	DC	O3'-P-O5'	-10.14	88.80	104.00
196	S5	17	DC	O3'-P-O5'	-10.14	88.79	104.00
234	W9	10	DC	O3'-P-O5'	-10.14	88.79	104.00
11	AB	2242	DC	O3'-P-O5'	-10.14	88.80	104.00
11	AB	5212	DC	O3'-P-O5'	-10.14	88.80	104.00
11	AB	512	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	517	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	605	DC	O3'-P-O5'	-10.14	88.80	104.00
11	AB	3586	DC	O3'-P-O5'	-10.14	88.80	104.00
11	AB	4703	DC	O3'-P-O5'	-10.14	88.80	104.00
11	AB	5351	DC	O3'-P-O5'	-10.14	88.80	104.00
11	AB	6299	DC	O3'-P-O5'	-10.14	88.80	104.00
11	AB	6436	DC	O3'-P-O5'	-10.14	88.80	104.00
128	L5	11	DC	O3'-P-O5'	-10.14	88.80	104.00
11	AB	774	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	1207	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	1294	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	2645	DC	O3'-P-O5'	-10.13	88.80	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2911	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	3655	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	4386	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	6696	DC	O3'-P-O5'	-10.14	88.80	104.00
11	AB	4827	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	5405	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	5566	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	5858	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	6466	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	6819	DC	O3'-P-O5'	-10.13	88.80	104.00
57	EC	2	DC	O3'-P-O5'	-10.14	88.80	104.00
22	B9	43	DC	O3'-P-O5'	-10.13	88.80	104.00
32	C8	23	DC	O3'-P-O5'	-10.13	88.80	104.00
38	D2	3	DC	O3'-P-O5'	-10.13	88.80	104.00
57	EC	4	DC	O3'-P-O5'	-10.13	88.80	104.00
89	HA	33	DC	O3'-P-O5'	-10.13	88.80	104.00
95	I5	15	DC	O3'-P-O5'	-10.13	88.80	104.00
173	PA	11	DC	O3'-P-O5'	-10.14	88.80	104.00
126	L2	5	DC	O3'-P-O5'	-10.13	88.80	104.00
153	NA	9	DC	O3'-P-O5'	-10.13	88.80	104.00
180	Q8	13	DC	O3'-P-O5'	-10.13	88.80	104.00
182	QA	21	DC	O3'-P-O5'	-10.13	88.80	104.00
201	SC	6	DC	O3'-P-O5'	-10.14	88.80	104.00
229	VD	15	DC	O3'-P-O5'	-10.14	88.80	104.00
210	TC	22	DC	O3'-P-O5'	-10.13	88.80	104.00
4	A4	14	DC	O3'-P-O5'	-10.13	88.80	104.00
10	AA	8	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	45	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	472	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	4044	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	4177	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	5722	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	6031	DC	O3'-P-O5'	-10.13	88.80	104.00
69	FD	38	DC	O3'-P-O5'	-10.13	88.80	104.00
149	N6	32	DC	O3'-P-O5'	-10.13	88.80	104.00
156	O2	31	DC	O3'-P-O5'	-10.13	88.80	104.00
165	OD	16	DC	O3'-P-O5'	-10.13	88.80	104.00
233	W8	8	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	2840	DC	O3'-P-O5'	-10.13	88.81	104.00
11	AB	3023	DC	O3'-P-O5'	-10.13	88.81	104.00
14	B1	22	DC	O3'-P-O5'	-10.13	88.81	104.00
21	B8	20	DC	O3'-P-O5'	-10.13	88.81	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	B9	38	DC	O3'-P-O5'	-10.13	88.81	104.00
37	D1	22	DC	O3'-P-O5'	-10.13	88.80	104.00
69	FD	3	DC	O3'-P-O5'	-10.13	88.80	104.00
93	I2	2	DC	O3'-P-O5'	-10.13	88.80	104.00
125	L1	13	DC	O3'-P-O5'	-10.13	88.80	104.00
187	R5	34	DC	O3'-P-O5'	-10.13	88.80	104.00
128	L5	18	DC	O3'-P-O5'	-10.13	88.81	104.00
186	R3	7	DC	O3'-P-O5'	-10.13	88.80	104.00
194	S2	16	DC	O3'-P-O5'	-10.13	88.80	104.00
197	S7	2	DC	O3'-P-O5'	-10.13	88.80	104.00
205	T5	14	DC	O3'-P-O5'	-10.13	88.80	104.00
207	T8	12	DC	O3'-P-O5'	-10.13	88.80	104.00
210	TC	8	DC	O3'-P-O5'	-10.13	88.81	104.00
226	V9	13	DC	O3'-P-O5'	-10.13	88.81	104.00
237	X7	7	DC	O3'-P-O5'	-10.13	88.80	104.00
11	AB	1864	DC	O3'-P-O5'	-10.13	88.81	104.00
11	AB	4053	DC	O3'-P-O5'	-10.13	88.81	104.00
11	AB	34	DC	O3'-P-O5'	-10.13	88.81	104.00
11	AB	76	DC	O3'-P-O5'	-10.13	88.81	104.00
11	AB	3631	DC	O3'-P-O5'	-10.13	88.81	104.00
11	AB	6040	DC	O3'-P-O5'	-10.13	88.81	104.00
26	C1	25	DC	O3'-P-O5'	-10.13	88.81	104.00
11	AB	3121	DC	O3'-P-O5'	-10.13	88.81	104.00
11	AB	3272	DC	O3'-P-O5'	-10.13	88.81	104.00
11	AB	3964	DC	O3'-P-O5'	-10.13	88.81	104.00
11	AB	4577	DC	O3'-P-O5'	-10.13	88.81	104.00
11	AB	4630	DC	O3'-P-O5'	-10.13	88.81	104.00
11	AB	6845	DC	O3'-P-O5'	-10.13	88.81	104.00
15	B2	14	DC	O3'-P-O5'	-10.13	88.81	104.00
47	DD	42	DC	O3'-P-O5'	-10.13	88.81	104.00
64	F7	22	DC	O3'-P-O5'	-10.13	88.81	104.00
23	BA	18	DC	O3'-P-O5'	-10.13	88.81	104.00
69	FD	29	DC	O3'-P-O5'	-10.13	88.81	104.00
98	I8	9	DC	O3'-P-O5'	-10.13	88.81	104.00
107	J6	27	DC	O3'-P-O5'	-10.13	88.81	104.00
108	J7	22	DC	O3'-P-O5'	-10.13	88.81	104.00
108	J7	46	DC	O3'-P-O5'	-10.13	88.81	104.00
109	J8	9	DC	O3'-P-O5'	-10.13	88.81	104.00
202	SD	23	DC	O3'-P-O5'	-10.13	88.81	104.00
230	W3	17	DC	O3'-P-O5'	-10.13	88.81	104.00
128	L5	21	DC	O3'-P-O5'	-10.13	88.81	104.00
130	L7	32	DC	O3'-P-O5'	-10.13	88.81	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
220	UD	20	DC	O3'-P-O5'	-10.13	88.81	104.00
11	AB	7085	DC	O3'-P-O5'	-10.13	88.81	104.00
32	C8	9	DC	O3'-P-O5'	-10.13	88.81	104.00
168	P5	5	DC	O3'-P-O5'	-10.13	88.81	104.00
203	T2	24	DC	O3'-P-O5'	-10.13	88.81	104.00
11	AB	2557	DC	O3'-P-O5'	-10.12	88.81	104.00
11	AB	4217	DC	O3'-P-O5'	-10.12	88.81	104.00
11	AB	4445	DC	O3'-P-O5'	-10.12	88.81	104.00
11	AB	5484	DC	O3'-P-O5'	-10.12	88.81	104.00
11	AB	6961	DC	O3'-P-O5'	-10.12	88.81	104.00
19	B6	1	DC	O3'-P-O5'	-10.13	88.81	104.00
31	C7	31	DC	O3'-P-O5'	-10.13	88.81	104.00
47	DD	39	DC	O3'-P-O5'	-10.13	88.81	104.00
188	R7	15	DC	O3'-P-O5'	-10.13	88.81	104.00
22	B9	36	DC	O3'-P-O5'	-10.12	88.81	104.00
38	D2	9	DC	O3'-P-O5'	-10.12	88.81	104.00
47	DD	30	DC	O3'-P-O5'	-10.12	88.81	104.00
82	H2	48	DC	O3'-P-O5'	-10.12	88.81	104.00
90	HC	23	DC	O3'-P-O5'	-10.13	88.81	104.00
112	JC	10	DC	O3'-P-O5'	-10.12	88.81	104.00
123	KC	25	DC	O3'-P-O5'	-10.12	88.81	104.00
156	O2	5	DC	O3'-P-O5'	-10.12	88.81	104.00
189	R8	35	DC	O3'-P-O5'	-10.12	88.81	104.00
201	SC	1	DC	O3'-P-O5'	-10.13	88.81	104.00
208	T9	15	DC	O3'-P-O5'	-10.12	88.81	104.00
227	VA	17	DC	O3'-P-O5'	-10.13	88.81	104.00
238	X9	50	DC	O3'-P-O5'	-10.12	88.81	104.00
11	AB	4506	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	4782	DC	O3'-P-O5'	-10.12	88.82	104.00
192	RC	8	DC	O3'-P-O5'	-10.12	88.81	104.00
11	AB	1626	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	2724	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	3077	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	3379	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	4341	DC	O3'-P-O5'	-10.12	88.82	104.00
41	D6	13	DC	O3'-P-O5'	-10.12	88.82	104.00
75	G7	28	DC	O3'-P-O5'	-10.12	88.82	104.00
201	SC	9	DC	O3'-P-O5'	-10.12	88.82	104.00
1	A1	16	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	58	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	325	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	2166	DC	O3'-P-O5'	-10.12	88.82	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2251	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	2388	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	2788	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	3569	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	4199	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	4442	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	4497	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	4584	DC	O3'-P-O5'	-10.12	88.82	104.00
127	L3	11	DC	O3'-P-O5'	-10.12	88.82	104.00
142	M9	18	DC	O3'-P-O5'	-10.12	88.82	104.00
149	N6	42	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	87	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	2448	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	3733	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	5188	DC	O3'-P-O5'	-10.12	88.82	104.00
120	K8	15	DC	O3'-P-O5'	-10.12	88.82	104.00
165	OD	20	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	5480	DC	O3'-P-O5'	-10.12	88.83	104.00
11	AB	6387	DC	O3'-P-O5'	-10.12	88.83	104.00
35	CC	34	DC	O3'-P-O5'	-10.12	88.83	104.00
69	FD	17	DC	O3'-P-O5'	-10.12	88.82	104.00
75	G7	22	DC	O3'-P-O5'	-10.12	88.82	104.00
94	I3	14	DC	O3'-P-O5'	-10.12	88.82	104.00
122	KA	25	DC	O3'-P-O5'	-10.12	88.82	104.00
145	MD	4	DC	O3'-P-O5'	-10.12	88.82	104.00
167	P3	16	DC	O3'-P-O5'	-10.12	88.82	104.00
167	P3	30	DC	O3'-P-O5'	-10.12	88.82	104.00
196	S5	14	DC	O3'-P-O5'	-10.12	88.82	104.00
230	W3	46	DC	O3'-P-O5'	-10.12	88.82	104.00
11	AB	1426	DC	O3'-P-O5'	-10.12	88.83	104.00
11	AB	3415	DC	O3'-P-O5'	-10.12	88.83	104.00
11	AB	3804	DC	O3'-P-O5'	-10.12	88.83	104.00
100	IA	21	DC	O3'-P-O5'	-10.12	88.83	104.00
11	AB	105	DC	O3'-P-O5'	-10.11	88.83	104.00
11	AB	718	DC	O3'-P-O5'	-10.11	88.83	104.00
11	AB	2319	DC	O3'-P-O5'	-10.11	88.83	104.00
11	AB	4717	DC	O3'-P-O5'	-10.11	88.83	104.00
11	AB	6535	DC	O3'-P-O5'	-10.11	88.83	104.00
101	IC	6	DC	O3'-P-O5'	-10.11	88.83	104.00
109	J8	13	DC	O3'-P-O5'	-10.11	88.83	104.00
131	L8	18	DC	O3'-P-O5'	-10.12	88.83	104.00
160	O7	33	DC	O3'-P-O5'	-10.12	88.83	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1109	DC	O3'-P-O5'	-10.11	88.83	104.00
11	AB	2216	DC	O3'-P-O5'	-10.11	88.83	104.00
11	AB	2374	DC	O3'-P-O5'	-10.11	88.83	104.00
11	AB	6973	DC	O3'-P-O5'	-10.11	88.83	104.00
66	F9	8	DC	O3'-P-O5'	-10.11	88.83	104.00
50	E3	5	DC	O3'-P-O5'	-10.11	88.83	104.00
73	G5	5	DC	O3'-P-O5'	-10.11	88.83	104.00
73	G5	20	DC	O3'-P-O5'	-10.11	88.83	104.00
147	N3	30	DC	O3'-P-O5'	-10.11	88.83	104.00
204	T3	41	DC	O3'-P-O5'	-10.11	88.83	104.00
217	U9	9	DC	O3'-P-O5'	-10.11	88.83	104.00
228	VC	5	DC	O3'-P-O5'	-10.11	88.83	104.00
234	W9	5	DC	O3'-P-O5'	-10.11	88.83	104.00
11	AB	2652	DC	O3'-P-O5'	-10.11	88.83	104.00
11	AB	4708	DC	O3'-P-O5'	-10.11	88.84	104.00
11	AB	487	DC	O3'-P-O5'	-10.11	88.84	104.00
11	AB	1637	DC	O3'-P-O5'	-10.11	88.84	104.00
11	AB	2551	DC	O3'-P-O5'	-10.11	88.84	104.00
11	AB	4988	DC	O3'-P-O5'	-10.11	88.84	104.00
11	AB	5947	DC	O3'-P-O5'	-10.11	88.84	104.00
104	J2	8	DC	O3'-P-O5'	-10.11	88.84	104.00
161	O8	55	DC	O3'-P-O5'	-10.11	88.84	104.00
166	P2	24	DC	O3'-P-O5'	-10.11	88.84	104.00
238	X9	14	DC	O3'-P-O5'	-10.11	88.84	104.00
11	AB	549	DC	O3'-P-O5'	-10.11	88.84	104.00
11	AB	1176	DC	O3'-P-O5'	-10.11	88.84	104.00
84	H5	38	DC	O3'-P-O5'	-10.11	88.84	104.00
145	MD	27	DC	O3'-P-O5'	-10.11	88.84	104.00
11	AB	6364	DC	O3'-P-O5'	-10.11	88.84	104.00
126	L2	43	DC	O3'-P-O5'	-10.11	88.84	104.00
141	M8	9	DC	O3'-P-O5'	-10.11	88.84	104.00
1	A1	13	DC	O3'-P-O5'	-10.10	88.84	104.00
1	A1	31	DC	O3'-P-O5'	-10.10	88.84	104.00
11	AB	3356	DC	O3'-P-O5'	-10.10	88.85	104.00
11	AB	5472	DC	O3'-P-O5'	-10.10	88.85	104.00
11	AB	6685	DC	O3'-P-O5'	-10.10	88.85	104.00
195	S3	8	DC	O3'-P-O5'	-10.10	88.85	104.00
11	AB	2740	DC	O3'-P-O5'	-10.10	88.85	104.00
11	AB	4773	DC	O3'-P-O5'	-10.10	88.85	104.00
11	AB	6028	DC	O3'-P-O5'	-10.10	88.85	104.00
114	K1	5	DC	O3'-P-O5'	-10.10	88.85	104.00
11	AB	4775	DC	O3'-P-O5'	-10.10	88.86	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
65	F8	6	DC	O3'-P-O5'	-10.10	88.86	104.00
117	K5	41	DC	O3'-P-O5'	-10.10	88.86	104.00
171	P8	27	DC	O3'-P-O5'	-10.10	88.86	104.00
155	ND	5	DC	O3'-P-O5'	-10.10	88.86	104.00
202	SD	26	DC	O3'-P-O5'	-10.10	88.86	104.00
11	AB	1646	DC	O3'-P-O5'	-10.09	88.86	104.00
134	LC	5	DC	O3'-P-O5'	-10.09	88.86	104.00
143	MA	24	DC	O3'-P-O5'	-10.09	88.87	104.00
11	AB	4843	DC	O3'-P-O5'	-10.07	88.89	104.00
11	AB	3081	DC	O3'-P-O5'	-10.07	88.89	104.00
11	AB	2446	DC	O3'-P-O5'	-10.07	88.90	104.00
11	AB	3943	DC	O3'-P-O5'	-10.06	88.90	104.00
11	AB	6797	DC	O3'-P-O5'	-10.06	88.90	104.00
11	AB	5003	DC	O3'-P-O5'	-10.06	88.91	104.00
11	AB	275	DC	O3'-P-O5'	-10.05	88.92	104.00
11	AB	1616	DC	O3'-P-O5'	-10.04	88.95	104.00
11	AB	2906	DC	O3'-P-O5'	-10.01	88.99	104.00
125	L1	32	DA	O3'-P-O5'	-9.65	89.52	104.00
11	AB	2667	DA	O3'-P-O5'	-9.65	89.53	104.00
106	J5	5	DA	O3'-P-O5'	-9.64	89.54	104.00
49	E2	3	DA	O3'-P-O5'	-9.64	89.55	104.00
11	AB	2593	DA	O3'-P-O5'	-9.63	89.55	104.00
105	J3	32	DA	O3'-P-O5'	-9.63	89.55	104.00
120	K8	3	DA	O3'-P-O5'	-9.63	89.55	104.00
149	N6	20	DA	O3'-P-O5'	-9.63	89.55	104.00
11	AB	633	DA	O3'-P-O5'	-9.63	89.55	104.00
13	AD	13	DA	O3'-P-O5'	-9.63	89.56	104.00
11	AB	4238	DA	O3'-P-O5'	-9.63	89.56	104.00
18	B5	32	DA	O3'-P-O5'	-9.63	89.56	104.00
154	NC	7	DA	O3'-P-O5'	-9.63	89.56	104.00
137	M3	33	DA	O3'-P-O5'	-9.63	89.56	104.00
182	QA	19	DA	O3'-P-O5'	-9.63	89.56	104.00
190	R9	22	DA	O3'-P-O5'	-9.63	89.56	104.00
11	AB	179	DA	O3'-P-O5'	-9.62	89.56	104.00
11	AB	6510	DA	O3'-P-O5'	-9.62	89.56	104.00
61	F3	22	DA	O3'-P-O5'	-9.63	89.56	104.00
155	ND	19	DA	O3'-P-O5'	-9.63	89.56	104.00
156	O2	41	DA	O3'-P-O5'	-9.63	89.56	104.00
214	U5	37	DA	O3'-P-O5'	-9.63	89.56	104.00
233	W8	17	DA	O3'-P-O5'	-9.63	89.56	104.00
44	D9	16	DA	O3'-P-O5'	-9.62	89.56	104.00
51	E5	15	DA	O3'-P-O5'	-9.62	89.57	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
117	K5	35	DA	O3'-P-O5'	-9.62	89.57	104.00
152	N9	44	DA	O3'-P-O5'	-9.62	89.56	104.00
11	AB	2515	DA	O3'-P-O5'	-9.62	89.57	104.00
13	AD	10	DA	O3'-P-O5'	-9.62	89.57	104.00
167	P3	36	DA	O3'-P-O5'	-9.62	89.57	104.00
207	T8	27	DA	O3'-P-O5'	-9.62	89.57	104.00
228	VC	28	DA	O3'-P-O5'	-9.62	89.57	104.00
11	AB	1534	DA	O3'-P-O5'	-9.62	89.57	104.00
11	AB	6576	DA	O3'-P-O5'	-9.62	89.58	104.00
16	B3	11	DA	O3'-P-O5'	-9.62	89.57	104.00
76	G8	22	DA	O3'-P-O5'	-9.62	89.57	104.00
152	N9	30	DA	O3'-P-O5'	-9.62	89.57	104.00
195	S3	23	DA	O3'-P-O5'	-9.62	89.57	104.00
131	L8	16	DA	O3'-P-O5'	-9.62	89.57	104.00
166	P2	8	DA	O3'-P-O5'	-9.62	89.57	104.00
168	P5	8	DA	O3'-P-O5'	-9.62	89.57	104.00
219	UC	26	DA	O3'-P-O5'	-9.62	89.57	104.00
231	W5	17	DA	O3'-P-O5'	-9.62	89.57	104.00
11	AB	589	DA	O3'-P-O5'	-9.62	89.58	104.00
230	W3	40	DA	O3'-P-O5'	-9.62	89.58	104.00
11	AB	2855	DA	O3'-P-O5'	-9.61	89.58	104.00
11	AB	3455	DA	O3'-P-O5'	-9.62	89.58	104.00
11	AB	3719	DA	O3'-P-O5'	-9.61	89.58	104.00
11	AB	4522	DA	O3'-P-O5'	-9.61	89.58	104.00
11	AB	4664	DA	O3'-P-O5'	-9.62	89.58	104.00
11	AB	5693	DA	O3'-P-O5'	-9.61	89.58	104.00
11	AB	5709	DA	O3'-P-O5'	-9.61	89.58	104.00
11	AB	6179	DA	O3'-P-O5'	-9.62	89.58	104.00
11	AB	6671	DA	O3'-P-O5'	-9.62	89.58	104.00
93	I2	14	DA	O3'-P-O5'	-9.62	89.58	104.00
21	B8	25	DA	O3'-P-O5'	-9.61	89.58	104.00
95	I5	13	DA	O3'-P-O5'	-9.61	89.58	104.00
99	I9	28	DA	O3'-P-O5'	-9.62	89.58	104.00
147	N3	11	DA	O3'-P-O5'	-9.62	89.58	104.00
168	P5	14	DA	O3'-P-O5'	-9.61	89.58	104.00
180	Q8	25	DA	O3'-P-O5'	-9.61	89.58	104.00
215	U7	10	DA	O3'-P-O5'	-9.61	89.58	104.00
228	VC	34	DA	O3'-P-O5'	-9.62	89.58	104.00
11	AB	4479	DA	O3'-P-O5'	-9.61	89.58	104.00
55	E9	12	DA	O3'-P-O5'	-9.61	89.58	104.00
209	TA	8	DA	O3'-P-O5'	-9.61	89.58	104.00
228	VC	23	DA	O3'-P-O5'	-9.61	89.58	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3841	DA	O3'-P-O5'	-9.61	89.58	104.00
11	AB	4419	DA	O3'-P-O5'	-9.61	89.58	104.00
11	AB	4946	DA	O3'-P-O5'	-9.61	89.58	104.00
11	AB	7080	DA	O3'-P-O5'	-9.61	89.58	104.00
41	D6	2	DA	O3'-P-O5'	-9.61	89.58	104.00
94	I3	1	DA	O3'-P-O5'	-9.61	89.58	104.00
130	L7	37	DA	O3'-P-O5'	-9.61	89.58	104.00
154	NC	9	DA	O3'-P-O5'	-9.61	89.58	104.00
175	PD	4	DA	O3'-P-O5'	-9.61	89.59	104.00
2	A2	6	DA	O3'-P-O5'	-9.61	89.59	104.00
11	AB	725	DA	O3'-P-O5'	-9.61	89.59	104.00
11	AB	941	DA	O3'-P-O5'	-9.61	89.58	104.00
11	AB	2183	DA	O3'-P-O5'	-9.61	89.59	104.00
11	AB	4688	DA	O3'-P-O5'	-9.61	89.59	104.00
11	AB	6089	DA	O3'-P-O5'	-9.61	89.59	104.00
43	D8	32	DA	O3'-P-O5'	-9.61	89.59	104.00
95	I5	29	DA	O3'-P-O5'	-9.61	89.58	104.00
134	LC	15	DA	O3'-P-O5'	-9.61	89.59	104.00
146	N2	6	DA	O3'-P-O5'	-9.61	89.59	104.00
147	N3	1	DA	O3'-P-O5'	-9.61	89.59	104.00
150	N7	21	DA	O3'-P-O5'	-9.61	89.59	104.00
160	O7	46	DA	O3'-P-O5'	-9.61	89.59	104.00
206	T7	41	DA	O3'-P-O5'	-9.61	89.59	104.00
5	A5	18	DA	O3'-P-O5'	-9.61	89.59	104.00
11	AB	613	DA	O3'-P-O5'	-9.61	89.59	104.00
11	AB	1948	DA	O3'-P-O5'	-9.61	89.59	104.00
11	AB	2080	DA	O3'-P-O5'	-9.61	89.59	104.00
11	AB	4531	DA	O3'-P-O5'	-9.61	89.59	104.00
11	AB	2606	DA	O3'-P-O5'	-9.61	89.59	104.00
11	AB	4756	DA	O3'-P-O5'	-9.61	89.59	104.00
11	AB	5717	DA	O3'-P-O5'	-9.61	89.59	104.00
13	AD	25	DA	O3'-P-O5'	-9.61	89.59	104.00
11	AB	5986	DA	O3'-P-O5'	-9.61	89.59	104.00
11	AB	6820	DA	O3'-P-O5'	-9.61	89.59	104.00
36	CD	2	DA	O3'-P-O5'	-9.61	89.59	104.00
16	B3	5	DA	O3'-P-O5'	-9.61	89.59	104.00
20	B7	20	DA	O3'-P-O5'	-9.61	89.59	104.00
27	C2	19	DA	O3'-P-O5'	-9.61	89.59	104.00
36	CD	4	DA	O3'-P-O5'	-9.61	89.59	104.00
37	D1	30	DA	O3'-P-O5'	-9.61	89.59	104.00
39	D3	19	DA	O3'-P-O5'	-9.61	89.59	104.00
45	DA	8	DA	O3'-P-O5'	-9.61	89.59	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
150	N7	4	DA	O3'-P-O5'	-9.61	89.59	104.00
43	D8	34	DA	O3'-P-O5'	-9.61	89.59	104.00
52	E6	3	DA	O3'-P-O5'	-9.61	89.59	104.00
59	F1	3	DA	O3'-P-O5'	-9.61	89.59	104.00
139	M6	12	DA	O3'-P-O5'	-9.61	89.59	104.00
151	N8	1	DA	O3'-P-O5'	-9.61	89.59	104.00
160	O7	41	DA	O3'-P-O5'	-9.61	89.59	104.00
5	A5	37	DA	O3'-P-O5'	-9.60	89.59	104.00
11	AB	674	DA	O3'-P-O5'	-9.60	89.59	104.00
11	AB	1530	DA	O3'-P-O5'	-9.60	89.59	104.00
2	A2	2	DA	O3'-P-O5'	-9.60	89.60	104.00
11	AB	2587	DA	O3'-P-O5'	-9.60	89.60	104.00
11	AB	6405	DA	O3'-P-O5'	-9.60	89.59	104.00
11	AB	6815	DA	O3'-P-O5'	-9.60	89.59	104.00
67	FA	26	DA	O3'-P-O5'	-9.60	89.59	104.00
106	J5	13	DA	O3'-P-O5'	-9.60	89.59	104.00
143	MA	19	DA	O3'-P-O5'	-9.60	89.60	104.00
11	AB	937	DA	O3'-P-O5'	-9.60	89.60	104.00
11	AB	2359	DA	O3'-P-O5'	-9.60	89.60	104.00
11	AB	3471	DA	O3'-P-O5'	-9.60	89.60	104.00
11	AB	4684	DA	O3'-P-O5'	-9.60	89.60	104.00
11	AB	6651	DA	O3'-P-O5'	-9.60	89.60	104.00
32	C8	41	DA	O3'-P-O5'	-9.60	89.60	104.00
45	DA	21	DA	O3'-P-O5'	-9.60	89.60	104.00
89	HA	23	DA	O3'-P-O5'	-9.60	89.60	104.00
97	I7	23	DA	O3'-P-O5'	-9.60	89.60	104.00
113	JD	9	DA	O3'-P-O5'	-9.60	89.60	104.00
117	K5	24	DA	O3'-P-O5'	-9.60	89.60	104.00
148	N5	6	DA	O3'-P-O5'	-9.60	89.60	104.00
149	N6	48	DA	O3'-P-O5'	-9.60	89.60	104.00
170	P7	11	DA	O3'-P-O5'	-9.60	89.60	104.00
213	U3	18	DA	O3'-P-O5'	-9.60	89.60	104.00
228	VC	11	DA	O3'-P-O5'	-9.60	89.60	104.00
11	AB	4225	DA	O3'-P-O5'	-9.60	89.60	104.00
143	MA	29	DA	O3'-P-O5'	-9.60	89.60	104.00
11	AB	219	DA	O3'-P-O5'	-9.60	89.60	104.00
11	AB	1006	DA	O3'-P-O5'	-9.60	89.60	104.00
11	AB	3313	DA	O3'-P-O5'	-9.60	89.60	104.00
28	C3	17	DA	O3'-P-O5'	-9.60	89.60	104.00
11	AB	4138	DA	O3'-P-O5'	-9.60	89.60	104.00
88	H9	26	DA	O3'-P-O5'	-9.60	89.60	104.00
94	I3	36	DA	O3'-P-O5'	-9.60	89.60	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
95	I5	10	DA	O3'-P-O5'	-9.60	89.60	104.00
114	K1	25	DA	O3'-P-O5'	-9.60	89.60	104.00
124	KD	15	DA	O3'-P-O5'	-9.60	89.60	104.00
143	MA	42	DA	O3'-P-O5'	-9.60	89.60	104.00
157	O3	9	DA	O3'-P-O5'	-9.60	89.60	104.00
169	P6	8	DA	O3'-P-O5'	-9.60	89.60	104.00
203	T2	9	DA	O3'-P-O5'	-9.60	89.60	104.00
11	AB	227	DA	O3'-P-O5'	-9.60	89.61	104.00
11	AB	421	DA	O3'-P-O5'	-9.60	89.61	104.00
11	AB	621	DA	O3'-P-O5'	-9.60	89.61	104.00
11	AB	5237	DA	O3'-P-O5'	-9.60	89.61	104.00
11	AB	7240	DA	O3'-P-O5'	-9.60	89.61	104.00
11	AB	1935	DA	O3'-P-O5'	-9.60	89.61	104.00
11	AB	6098	DA	O3'-P-O5'	-9.60	89.61	104.00
11	AB	6125	DA	O3'-P-O5'	-9.60	89.61	104.00
156	O2	27	DA	O3'-P-O5'	-9.60	89.60	104.00
11	AB	7213	DA	O3'-P-O5'	-9.60	89.61	104.00
13	AD	27	DA	O3'-P-O5'	-9.60	89.61	104.00
39	D3	25	DA	O3'-P-O5'	-9.60	89.61	104.00
86	H7	12	DA	O3'-P-O5'	-9.60	89.61	104.00
91	HD	21	DA	O3'-P-O5'	-9.60	89.61	104.00
110	J9	9	DA	O3'-P-O5'	-9.60	89.61	104.00
111	JA	3	DA	O3'-P-O5'	-9.60	89.61	104.00
146	N2	21	DA	O3'-P-O5'	-9.60	89.60	104.00
223	V5	20	DA	O3'-P-O5'	-9.60	89.61	104.00
175	PD	16	DA	O3'-P-O5'	-9.60	89.61	104.00
195	S3	25	DA	O3'-P-O5'	-9.60	89.61	104.00
221	V2	14	DA	O3'-P-O5'	-9.60	89.61	104.00
234	W9	15	DA	O3'-P-O5'	-9.60	89.61	104.00
11	AB	436	DA	O3'-P-O5'	-9.59	89.61	104.00
11	AB	2117	DA	O3'-P-O5'	-9.59	89.61	104.00
11	AB	4853	DA	O3'-P-O5'	-9.59	89.61	104.00
11	AB	6877	DA	O3'-P-O5'	-9.59	89.61	104.00
173	PA	2	DA	O3'-P-O5'	-9.59	89.61	104.00
1	A1	22	DA	O3'-P-O5'	-9.59	89.61	104.00
11	AB	4927	DA	O3'-P-O5'	-9.59	89.61	104.00
11	AB	6242	DA	O3'-P-O5'	-9.59	89.61	104.00
11	AB	6733	DA	O3'-P-O5'	-9.59	89.61	104.00
11	AB	6962	DA	O3'-P-O5'	-9.59	89.61	104.00
57	EC	22	DA	O3'-P-O5'	-9.59	89.61	104.00
65	F8	17	DA	O3'-P-O5'	-9.59	89.61	104.00
185	R2	18	DA	O3'-P-O5'	-9.59	89.61	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7037	DA	O3'-P-O5'	-9.59	89.61	104.00
41	D6	32	DA	O3'-P-O5'	-9.59	89.61	104.00
42	D7	3	DA	O3'-P-O5'	-9.59	89.61	104.00
69	FD	25	DA	O3'-P-O5'	-9.59	89.61	104.00
86	H7	19	DA	O3'-P-O5'	-9.59	89.61	104.00
87	H8	14	DA	O3'-P-O5'	-9.59	89.61	104.00
99	I9	9	DA	O3'-P-O5'	-9.59	89.61	104.00
106	J5	3	DA	O3'-P-O5'	-9.59	89.61	104.00
118	K6	12	DA	O3'-P-O5'	-9.59	89.61	104.00
123	KC	10	DA	O3'-P-O5'	-9.59	89.61	104.00
154	NC	5	DA	O3'-P-O5'	-9.59	89.61	104.00
199	S9	2	DA	O3'-P-O5'	-9.59	89.61	104.00
212	U2	27	DA	O3'-P-O5'	-9.59	89.61	104.00
228	VC	38	DA	O3'-P-O5'	-9.59	89.61	104.00
4	A4	7	DA	O3'-P-O5'	-9.59	89.61	104.00
11	AB	242	DA	O3'-P-O5'	-9.59	89.62	104.00
11	AB	815	DA	O3'-P-O5'	-9.59	89.61	104.00
11	AB	1847	DA	O3'-P-O5'	-9.59	89.61	104.00
11	AB	2338	DA	O3'-P-O5'	-9.59	89.61	104.00
11	AB	3122	DA	O3'-P-O5'	-9.59	89.61	104.00
11	AB	4660	DA	O3'-P-O5'	-9.59	89.61	104.00
11	AB	4992	DA	O3'-P-O5'	-9.59	89.61	104.00
17	B4	17	DA	O3'-P-O5'	-9.59	89.61	104.00
80	GD	11	DA	O3'-P-O5'	-9.59	89.61	104.00
84	H5	32	DA	O3'-P-O5'	-9.59	89.61	104.00
165	OD	10	DA	O3'-P-O5'	-9.59	89.61	104.00
198	S8	28	DA	O3'-P-O5'	-9.59	89.61	104.00
214	U5	16	DA	O3'-P-O5'	-9.59	89.61	104.00
11	AB	4082	DA	O3'-P-O5'	-9.59	89.62	104.00
11	AB	6305	DA	O3'-P-O5'	-9.59	89.62	104.00
17	B4	15	DA	O3'-P-O5'	-9.59	89.61	104.00
54	E8	36	DA	O3'-P-O5'	-9.59	89.62	104.00
68	FC	13	DA	O3'-P-O5'	-9.59	89.62	104.00
71	G2	9	DA	O3'-P-O5'	-9.59	89.62	104.00
77	G9	9	DA	O3'-P-O5'	-9.59	89.62	104.00
78	GA	18	DA	O3'-P-O5'	-9.59	89.62	104.00
81	H1	11	DA	O3'-P-O5'	-9.59	89.62	104.00
115	K2	8	DA	O3'-P-O5'	-9.59	89.62	104.00
125	L1	44	DA	O3'-P-O5'	-9.59	89.62	104.00
131	L8	10	DA	O3'-P-O5'	-9.59	89.61	104.00
158	O5	31	DA	O3'-P-O5'	-9.59	89.62	104.00
204	T3	30	DA	O3'-P-O5'	-9.59	89.62	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1828	DA	O3'-P-O5'	-9.59	89.62	104.00
11	AB	1834	DA	O3'-P-O5'	-9.59	89.62	104.00
11	AB	2485	DA	O3'-P-O5'	-9.59	89.62	104.00
11	AB	3380	DA	O3'-P-O5'	-9.59	89.62	104.00
11	AB	3575	DA	O3'-P-O5'	-9.59	89.62	104.00
11	AB	3944	DA	O3'-P-O5'	-9.59	89.62	104.00
63	F6	8	DA	O3'-P-O5'	-9.59	89.62	104.00
78	GA	7	DA	O3'-P-O5'	-9.59	89.62	104.00
150	N7	2	DA	O3'-P-O5'	-9.59	89.62	104.00
11	AB	2482	DA	O3'-P-O5'	-9.59	89.62	104.00
11	AB	3306	DA	O3'-P-O5'	-9.59	89.62	104.00
11	AB	4453	DA	O3'-P-O5'	-9.59	89.62	104.00
11	AB	5000	DA	O3'-P-O5'	-9.59	89.62	104.00
11	AB	5859	DA	O3'-P-O5'	-9.59	89.62	104.00
11	AB	5883	DA	O3'-P-O5'	-9.59	89.62	104.00
11	AB	6238	DA	O3'-P-O5'	-9.59	89.62	104.00
11	AB	6869	DA	O3'-P-O5'	-9.59	89.62	104.00
29	C5	15	DA	O3'-P-O5'	-9.59	89.62	104.00
47	DD	24	DA	O3'-P-O5'	-9.59	89.62	104.00
11	AB	6751	DA	O3'-P-O5'	-9.59	89.62	104.00
11	AB	7194	DA	O3'-P-O5'	-9.59	89.62	104.00
68	FC	10	DA	O3'-P-O5'	-9.59	89.62	104.00
68	FC	16	DA	O3'-P-O5'	-9.59	89.62	104.00
89	HA	10	DA	O3'-P-O5'	-9.59	89.62	104.00
117	K5	2	DA	O3'-P-O5'	-9.59	89.62	104.00
125	L1	52	DA	O3'-P-O5'	-9.59	89.62	104.00
147	N3	3	DA	O3'-P-O5'	-9.59	89.62	104.00
108	J7	33	DA	O3'-P-O5'	-9.59	89.62	104.00
185	R2	3	DA	O3'-P-O5'	-9.59	89.62	104.00
225	V8	12	DA	O3'-P-O5'	-9.59	89.62	104.00
10	AA	25	DA	O3'-P-O5'	-9.58	89.62	104.00
95	I5	31	DA	O3'-P-O5'	-9.58	89.62	104.00
5	A5	22	DA	O3'-P-O5'	-9.58	89.63	104.00
11	AB	358	DA	O3'-P-O5'	-9.58	89.63	104.00
11	AB	583	DA	O3'-P-O5'	-9.58	89.62	104.00
11	AB	4354	DA	O3'-P-O5'	-9.58	89.62	104.00
11	AB	5300	DA	O3'-P-O5'	-9.58	89.62	104.00
30	C6	42	DA	O3'-P-O5'	-9.58	89.62	104.00
142	M9	4	DA	O3'-P-O5'	-9.58	89.62	104.00
11	AB	6086	DA	O3'-P-O5'	-9.58	89.63	104.00
48	E1	10	DA	O3'-P-O5'	-9.58	89.63	104.00
83	H3	25	DA	O3'-P-O5'	-9.58	89.62	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
146	N2	2	DA	O3'-P-O5'	-9.58	89.62	104.00
210	TC	29	DA	O3'-P-O5'	-9.58	89.62	104.00
109	J8	1	DA	O3'-P-O5'	-9.58	89.63	104.00
138	M5	22	DA	O3'-P-O5'	-9.58	89.63	104.00
159	O6	4	DA	O3'-P-O5'	-9.58	89.63	104.00
173	PA	6	DA	O3'-P-O5'	-9.58	89.63	104.00
238	X9	19	DA	O3'-P-O5'	-9.58	89.63	104.00
11	AB	406	DA	O3'-P-O5'	-9.58	89.63	104.00
11	AB	1518	DA	O3'-P-O5'	-9.58	89.63	104.00
11	AB	1701	DA	O3'-P-O5'	-9.58	89.63	104.00
11	AB	1796	DA	O3'-P-O5'	-9.58	89.63	104.00
11	AB	1807	DA	O3'-P-O5'	-9.58	89.63	104.00
11	AB	1818	DA	O3'-P-O5'	-9.58	89.63	104.00
11	AB	2602	DA	O3'-P-O5'	-9.58	89.63	104.00
11	AB	2695	DA	O3'-P-O5'	-9.58	89.63	104.00
11	AB	7234	DA	O3'-P-O5'	-9.58	89.63	104.00
39	D3	27	DA	O3'-P-O5'	-9.58	89.63	104.00
160	O7	35	DA	O3'-P-O5'	-9.58	89.63	104.00
19	B6	13	DA	O3'-P-O5'	-9.58	89.63	104.00
39	D3	31	DA	O3'-P-O5'	-9.58	89.63	104.00
83	H3	41	DA	O3'-P-O5'	-9.58	89.63	104.00
223	V5	36	DA	O3'-P-O5'	-9.58	89.63	104.00
130	L7	9	DA	O3'-P-O5'	-9.58	89.63	104.00
225	V8	10	DA	O3'-P-O5'	-9.58	89.63	104.00
11	AB	637	DA	O3'-P-O5'	-9.58	89.64	104.00
11	AB	3333	DA	O3'-P-O5'	-9.58	89.63	104.00
11	AB	3997	DA	O3'-P-O5'	-9.58	89.63	104.00
11	AB	5067	DA	O3'-P-O5'	-9.58	89.63	104.00
11	AB	6249	DA	O3'-P-O5'	-9.58	89.63	104.00
11	AB	4292	DA	O3'-P-O5'	-9.58	89.64	104.00
11	AB	6727	DA	O3'-P-O5'	-9.58	89.63	104.00
11	AB	6799	DA	O3'-P-O5'	-9.58	89.63	104.00
46	DC	19	DA	O3'-P-O5'	-9.58	89.63	104.00
13	AD	21	DA	O3'-P-O5'	-9.58	89.64	104.00
24	BC	38	DA	O3'-P-O5'	-9.58	89.64	104.00
49	E2	29	DA	O3'-P-O5'	-9.58	89.63	104.00
60	F2	26	DA	O3'-P-O5'	-9.58	89.63	104.00
89	HA	19	DA	O3'-P-O5'	-9.58	89.63	104.00
114	K1	27	DA	O3'-P-O5'	-9.58	89.63	104.00
160	O7	3	DA	O3'-P-O5'	-9.58	89.63	104.00
174	PC	25	DA	O3'-P-O5'	-9.58	89.63	104.00
191	RA	8	DA	O3'-P-O5'	-9.58	89.63	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
196	S5	3	DA	O3'-P-O5'	-9.58	89.64	104.00
206	T7	53	DA	O3'-P-O5'	-9.58	89.64	104.00
226	V9	23	DA	O3'-P-O5'	-9.58	89.64	104.00
7	A7	7	DA	O3'-P-O5'	-9.57	89.64	104.00
11	AB	6339	DA	O3'-P-O5'	-9.57	89.64	104.00
11	AB	5520	DA	O3'-P-O5'	-9.57	89.64	104.00
35	CC	6	DA	O3'-P-O5'	-9.57	89.64	104.00
58	ED	28	DA	O3'-P-O5'	-9.57	89.64	104.00
98	I8	24	DA	O3'-P-O5'	-9.57	89.64	104.00
220	UD	8	DA	O3'-P-O5'	-9.57	89.64	104.00
138	M5	5	DA	O3'-P-O5'	-9.57	89.64	104.00
161	O8	13	DA	O3'-P-O5'	-9.57	89.64	104.00
188	R7	24	DA	O3'-P-O5'	-9.57	89.64	104.00
11	AB	3899	DA	O3'-P-O5'	-9.57	89.64	104.00
30	C6	24	DA	O3'-P-O5'	-9.57	89.64	104.00
45	DA	12	DA	O3'-P-O5'	-9.57	89.64	104.00
138	M5	27	DA	O3'-P-O5'	-9.57	89.64	104.00
140	M7	12	DA	O3'-P-O5'	-9.57	89.64	104.00
199	S9	4	DA	O3'-P-O5'	-9.57	89.64	104.00
235	WD	11	DA	O3'-P-O5'	-9.57	89.64	104.00
11	AB	2686	DA	O3'-P-O5'	-9.57	89.65	104.00
11	AB	3324	DA	O3'-P-O5'	-9.57	89.65	104.00
55	E9	42	DA	O3'-P-O5'	-9.57	89.65	104.00
83	H3	23	DA	O3'-P-O5'	-9.57	89.64	104.00
92	I1	21	DA	O3'-P-O5'	-9.57	89.65	104.00
106	J5	26	DA	O3'-P-O5'	-9.57	89.64	104.00
203	T2	12	DA	O3'-P-O5'	-9.57	89.65	104.00
216	U8	4	DA	O3'-P-O5'	-9.57	89.65	104.00
11	AB	451	DA	O3'-P-O5'	-9.57	89.65	104.00
11	AB	2614	DA	O3'-P-O5'	-9.57	89.65	104.00
11	AB	3836	DA	O3'-P-O5'	-9.57	89.65	104.00
11	AB	4130	DA	O3'-P-O5'	-9.57	89.65	104.00
11	AB	6000	DA	O3'-P-O5'	-9.57	89.65	104.00
11	AB	6594	DA	O3'-P-O5'	-9.57	89.65	104.00
11	AB	5082	DA	O3'-P-O5'	-9.57	89.65	104.00
93	I2	20	DA	O3'-P-O5'	-9.57	89.65	104.00
137	M3	12	DA	O3'-P-O5'	-9.57	89.65	104.00
11	AB	269	DA	O3'-P-O5'	-9.56	89.65	104.00
11	AB	2032	DA	O3'-P-O5'	-9.56	89.66	104.00
32	C8	7	DA	O3'-P-O5'	-9.56	89.65	104.00
111	JA	5	DA	O3'-P-O5'	-9.56	89.65	104.00
163	OA	1	DA	O3'-P-O5'	-9.56	89.65	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	D2	5	DA	O3'-P-O5'	-9.56	89.66	104.00
76	G8	5	DA	O3'-P-O5'	-9.56	89.66	104.00
11	AB	3561	DA	O3'-P-O5'	-9.56	89.66	104.00
154	NC	29	DA	O3'-P-O5'	-9.56	89.66	104.00
227	VA	6	DA	O3'-P-O5'	-9.56	89.66	104.00
11	AB	4109	DA	O3'-P-O5'	-9.56	89.66	104.00
49	E2	27	DA	O3'-P-O5'	-9.56	89.66	104.00
122	KA	32	DA	O3'-P-O5'	-9.56	89.66	104.00
194	S2	3	DA	O3'-P-O5'	-9.56	89.66	104.00
229	VD	6	DA	O3'-P-O5'	-9.56	89.66	104.00
29	C5	39	DA	O3'-P-O5'	-9.56	89.66	104.00
14	B1	17	DA	O3'-P-O5'	-9.56	89.67	104.00
90	HC	24	DA	O3'-P-O5'	-9.56	89.66	104.00
190	R9	27	DA	O3'-P-O5'	-9.56	89.66	104.00
224	V7	20	DA	O3'-P-O5'	-9.56	89.67	104.00
4	A4	9	DA	O3'-P-O5'	-9.55	89.67	104.00
11	AB	3251	DA	O3'-P-O5'	-9.55	89.67	104.00
11	AB	1610	DA	O3'-P-O5'	-9.55	89.67	104.00
11	AB	6935	DA	O3'-P-O5'	-9.55	89.67	104.00
181	Q9	1	DA	O3'-P-O5'	-9.55	89.67	104.00
11	AB	2916	DA	O3'-P-O5'	-9.55	89.67	104.00
11	AB	3823	DA	O3'-P-O5'	-9.55	89.67	104.00
119	K7	12	DA	O3'-P-O5'	-9.55	89.67	104.00
183	QC	20	DA	O3'-P-O5'	-9.55	89.67	104.00
62	F5	47	DA	O3'-P-O5'	-9.55	89.67	104.00
74	G6	6	DA	O3'-P-O5'	-9.55	89.67	104.00
11	AB	5115	DA	O3'-P-O5'	-9.55	89.68	104.00
11	AB	5193	DA	O3'-P-O5'	-9.55	89.68	104.00
205	T5	21	DA	O3'-P-O5'	-9.55	89.68	104.00
234	W9	13	DA	O3'-P-O5'	-9.55	89.68	104.00
11	AB	7064	DA	O3'-P-O5'	-9.55	89.68	104.00
156	O2	58	DA	O3'-P-O5'	-9.55	89.68	104.00
185	R2	10	DA	O3'-P-O5'	-9.55	89.68	104.00
11	AB	2076	DA	O3'-P-O5'	-9.55	89.68	104.00
11	AB	3065	DA	O3'-P-O5'	-9.54	89.68	104.00
11	AB	3231	DA	O3'-P-O5'	-9.54	89.68	104.00
87	H8	20	DA	O3'-P-O5'	-9.55	89.68	104.00
11	AB	4833	DA	O3'-P-O5'	-9.54	89.69	104.00
14	B1	6	DA	O3'-P-O5'	-9.54	89.68	104.00
22	B9	49	DA	O3'-P-O5'	-9.54	89.68	104.00
24	BC	7	DA	O3'-P-O5'	-9.54	89.68	104.00
73	G5	15	DA	O3'-P-O5'	-9.54	89.68	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
136	M2	15	DA	O3'-P-O5'	-9.54	89.68	104.00
11	AB	547	DA	O3'-P-O5'	-9.54	89.69	104.00
11	AB	60	DA	O3'-P-O5'	-9.54	89.69	104.00
11	AB	3042	DA	O3'-P-O5'	-9.54	89.69	104.00
11	AB	3817	DA	O3'-P-O5'	-9.54	89.69	104.00
11	AB	3862	DA	O3'-P-O5'	-9.54	89.69	104.00
14	B1	19	DA	O3'-P-O5'	-9.54	89.69	104.00
117	K5	42	DA	O3'-P-O5'	-9.54	89.69	104.00
11	AB	4337	DA	O3'-P-O5'	-9.54	89.69	104.00
11	AB	5657	DA	O3'-P-O5'	-9.54	89.69	104.00
14	B1	26	DA	O3'-P-O5'	-9.54	89.69	104.00
69	FD	39	DA	O3'-P-O5'	-9.54	89.69	104.00
94	I3	16	DA	O3'-P-O5'	-9.54	89.69	104.00
145	MD	54	DA	O3'-P-O5'	-9.54	89.69	104.00
153	NA	12	DA	O3'-P-O5'	-9.54	89.69	104.00
186	R3	10	DA	O3'-P-O5'	-9.54	89.69	104.00
204	T3	37	DA	O3'-P-O5'	-9.54	89.69	104.00
11	AB	335	DA	O3'-P-O5'	-9.54	89.69	104.00
148	N5	28	DA	O3'-P-O5'	-9.54	89.69	104.00
11	AB	1647	DA	O3'-P-O5'	-9.54	89.69	104.00
11	AB	2728	DA	O3'-P-O5'	-9.54	89.69	104.00
11	AB	3741	DA	O3'-P-O5'	-9.54	89.69	104.00
21	B8	14	DA	O3'-P-O5'	-9.54	89.69	104.00
167	P3	28	DA	O3'-P-O5'	-9.54	89.69	104.00
11	AB	4024	DA	O3'-P-O5'	-9.54	89.69	104.00
11	AB	4047	DA	O3'-P-O5'	-9.54	89.69	104.00
11	AB	6056	DA	O3'-P-O5'	-9.54	89.69	104.00
31	C7	2	DA	O3'-P-O5'	-9.54	89.69	104.00
32	C8	35	DA	O3'-P-O5'	-9.54	89.69	104.00
44	D9	25	DA	O3'-P-O5'	-9.54	89.69	104.00
48	E1	4	DA	O3'-P-O5'	-9.54	89.69	104.00
80	GD	15	DA	O3'-P-O5'	-9.54	89.69	104.00
84	H5	39	DA	O3'-P-O5'	-9.54	89.69	104.00
121	K9	8	DA	O3'-P-O5'	-9.54	89.69	104.00
127	L3	3	DA	O3'-P-O5'	-9.54	89.69	104.00
155	ND	9	DA	O3'-P-O5'	-9.54	89.69	104.00
161	O8	35	DA	O3'-P-O5'	-9.54	89.69	104.00
165	OD	54	DA	O3'-P-O5'	-9.54	89.69	104.00
201	SC	10	DA	O3'-P-O5'	-9.54	89.69	104.00
6	A6	27	DA	O3'-P-O5'	-9.54	89.70	104.00
11	AB	4056	DA	O3'-P-O5'	-9.54	89.70	104.00
11	AB	112	DA	O3'-P-O5'	-9.53	89.70	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	125	DA	O3'-P-O5'	-9.54	89.70	104.00
11	AB	4963	DA	O3'-P-O5'	-9.54	89.70	104.00
11	AB	5041	DA	O3'-P-O5'	-9.54	89.70	104.00
11	AB	6029	DA	O3'-P-O5'	-9.53	89.70	104.00
109	J8	10	DA	O3'-P-O5'	-9.54	89.70	104.00
126	L2	47	DA	O3'-P-O5'	-9.54	89.70	104.00
11	AB	761	DA	O3'-P-O5'	-9.53	89.70	104.00
11	AB	3429	DA	O3'-P-O5'	-9.53	89.70	104.00
112	JC	11	DA	O3'-P-O5'	-9.53	89.70	104.00
192	RC	9	DA	O3'-P-O5'	-9.53	89.70	104.00
11	AB	2909	DA	O3'-P-O5'	-9.53	89.70	104.00
11	AB	4513	DA	O3'-P-O5'	-9.53	89.70	104.00
11	AB	5044	DA	O3'-P-O5'	-9.53	89.70	104.00
11	AB	7029	DA	O3'-P-O5'	-9.53	89.70	104.00
11	AB	5634	DA	O3'-P-O5'	-9.53	89.70	104.00
11	AB	6446	DA	O3'-P-O5'	-9.53	89.70	104.00
48	E1	6	DA	O3'-P-O5'	-9.53	89.70	104.00
67	FA	5	DA	O3'-P-O5'	-9.53	89.70	104.00
92	I1	12	DA	O3'-P-O5'	-9.53	89.70	104.00
165	OD	5	DA	O3'-P-O5'	-9.53	89.70	104.00
93	I2	23	DA	O3'-P-O5'	-9.53	89.70	104.00
134	LC	9	DA	O3'-P-O5'	-9.53	89.70	104.00
182	QA	8	DA	O3'-P-O5'	-9.53	89.70	104.00
223	V5	31	DA	O3'-P-O5'	-9.53	89.70	104.00
11	AB	139	DA	O3'-P-O5'	-9.53	89.71	104.00
11	AB	1058	DA	O3'-P-O5'	-9.53	89.70	104.00
206	T7	33	DA	O3'-P-O5'	-9.53	89.70	104.00
11	AB	2477	DA	O3'-P-O5'	-9.53	89.71	104.00
11	AB	3417	DA	O3'-P-O5'	-9.53	89.71	104.00
11	AB	4831	DA	O3'-P-O5'	-9.53	89.70	104.00
145	MD	52	DA	O3'-P-O5'	-9.53	89.70	104.00
11	AB	4965	DA	O3'-P-O5'	-9.53	89.71	104.00
11	AB	5057	DA	O3'-P-O5'	-9.53	89.71	104.00
11	AB	5891	DA	O3'-P-O5'	-9.53	89.70	104.00
11	AB	5948	DA	O3'-P-O5'	-9.53	89.71	104.00
29	C5	9	DA	O3'-P-O5'	-9.53	89.71	104.00
32	C8	3	DA	O3'-P-O5'	-9.53	89.71	104.00
67	FA	2	DA	O3'-P-O5'	-9.53	89.70	104.00
83	H3	10	DA	O3'-P-O5'	-9.53	89.70	104.00
108	J7	10	DA	O3'-P-O5'	-9.53	89.71	104.00
125	L1	9	DA	O3'-P-O5'	-9.53	89.71	104.00
126	L2	59	DA	O3'-P-O5'	-9.53	89.71	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
156	O2	44	DA	O3'-P-O5'	-9.53	89.71	104.00
188	R7	1	DA	O3'-P-O5'	-9.53	89.71	104.00
214	U5	29	DA	O3'-P-O5'	-9.53	89.71	104.00
226	V9	14	DA	O3'-P-O5'	-9.53	89.71	104.00
128	L5	15	DA	O3'-P-O5'	-9.53	89.71	104.00
9	A9	7	DA	O3'-P-O5'	-9.53	89.71	104.00
11	AB	1901	DA	O3'-P-O5'	-9.53	89.71	104.00
11	AB	2167	DA	O3'-P-O5'	-9.53	89.71	104.00
11	AB	2389	DA	O3'-P-O5'	-9.53	89.71	104.00
11	AB	2555	DA	O3'-P-O5'	-9.53	89.71	104.00
11	AB	2732	DA	O3'-P-O5'	-9.53	89.71	104.00
46	DC	7	DA	O3'-P-O5'	-9.53	89.71	104.00
11	AB	3627	DA	O3'-P-O5'	-9.53	89.71	104.00
34	CA	12	DA	O3'-P-O5'	-9.53	89.71	104.00
35	CC	21	DA	O3'-P-O5'	-9.53	89.71	104.00
69	FD	1	DA	O3'-P-O5'	-9.53	89.71	104.00
85	H6	4	DA	O3'-P-O5'	-9.53	89.71	104.00
95	I5	21	DA	O3'-P-O5'	-9.53	89.71	104.00
122	KA	26	DA	O3'-P-O5'	-9.53	89.71	104.00
187	R5	36	DA	O3'-P-O5'	-9.53	89.71	104.00
203	T2	25	DA	O3'-P-O5'	-9.53	89.71	104.00
223	V5	8	DA	O3'-P-O5'	-9.53	89.71	104.00
11	AB	69	DA	O3'-P-O5'	-9.52	89.72	104.00
11	AB	89	DA	O3'-P-O5'	-9.52	89.71	104.00
11	AB	2653	DA	O3'-P-O5'	-9.52	89.71	104.00
11	AB	2725	DA	O3'-P-O5'	-9.52	89.72	104.00
11	AB	3728	DA	O3'-P-O5'	-9.52	89.71	104.00
11	AB	4070	DA	O3'-P-O5'	-9.52	89.72	104.00
11	AB	5836	DA	O3'-P-O5'	-9.52	89.72	104.00
11	AB	7144	DA	O3'-P-O5'	-9.52	89.71	104.00
12	AC	21	DA	O3'-P-O5'	-9.52	89.71	104.00
22	B9	10	DA	O3'-P-O5'	-9.52	89.71	104.00
108	J7	6	DA	O3'-P-O5'	-9.52	89.71	104.00
119	K7	31	DA	O3'-P-O5'	-9.52	89.71	104.00
182	QA	13	DA	O3'-P-O5'	-9.52	89.72	104.00
206	T7	22	DA	O3'-P-O5'	-9.52	89.72	104.00
11	AB	2949	DA	O3'-P-O5'	-9.52	89.72	104.00
11	AB	3865	DA	O3'-P-O5'	-9.52	89.72	104.00
11	AB	4653	DA	O3'-P-O5'	-9.52	89.72	104.00
11	AB	6932	DA	O3'-P-O5'	-9.52	89.72	104.00
11	AB	7128	DA	O3'-P-O5'	-9.52	89.72	104.00
15	B2	15	DA	O3'-P-O5'	-9.52	89.72	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	E7	19	DA	O3'-P-O5'	-9.52	89.72	104.00
58	ED	6	DA	O3'-P-O5'	-9.52	89.72	104.00
137	M3	4	DA	O3'-P-O5'	-9.52	89.72	104.00
142	M9	20	DA	O3'-P-O5'	-9.52	89.72	104.00
187	R5	22	DA	O3'-P-O5'	-9.52	89.72	104.00
80	GD	18	DA	O3'-P-O5'	-9.52	89.72	104.00
85	H6	6	DA	O3'-P-O5'	-9.52	89.72	104.00
114	K1	15	DA	O3'-P-O5'	-9.52	89.72	104.00
122	KA	10	DA	O3'-P-O5'	-9.52	89.72	104.00
124	KD	18	DA	O3'-P-O5'	-9.52	89.72	104.00
188	R7	6	DA	O3'-P-O5'	-9.52	89.72	104.00
189	R8	39	DA	O3'-P-O5'	-9.52	89.72	104.00
212	U2	12	DA	O3'-P-O5'	-9.52	89.72	104.00
230	W3	47	DA	O3'-P-O5'	-9.52	89.72	104.00
13	AD	31	DA	O3'-P-O5'	-9.52	89.72	104.00
218	UA	12	DA	O3'-P-O5'	-9.52	89.72	104.00
11	AB	2400	DA	O3'-P-O5'	-9.52	89.72	104.00
11	AB	3656	DA	O3'-P-O5'	-9.52	89.72	104.00
11	AB	5251	DA	O3'-P-O5'	-9.52	89.72	104.00
43	D8	36	DA	O3'-P-O5'	-9.52	89.72	104.00
11	AB	4310	DA	O3'-P-O5'	-9.52	89.72	104.00
11	AB	4709	DA	O3'-P-O5'	-9.52	89.72	104.00
11	AB	5839	DA	O3'-P-O5'	-9.52	89.72	104.00
11	AB	7153	DA	O3'-P-O5'	-9.52	89.72	104.00
56	EA	9	DA	O3'-P-O5'	-9.52	89.72	104.00
43	D8	7	DA	O3'-P-O5'	-9.52	89.72	104.00
62	F5	2	DA	O3'-P-O5'	-9.52	89.72	104.00
74	G6	8	DA	O3'-P-O5'	-9.52	89.72	104.00
102	ID	3	DA	O3'-P-O5'	-9.52	89.72	104.00
231	W5	22	DA	O3'-P-O5'	-9.52	89.72	104.00
8	A8	9	DA	O3'-P-O5'	-9.52	89.72	104.00
11	AB	6457	DA	O3'-P-O5'	-9.52	89.72	104.00
1	A1	3	DA	O3'-P-O5'	-9.52	89.73	104.00
11	AB	85	DA	O3'-P-O5'	-9.52	89.72	104.00
114	K1	30	DA	O3'-P-O5'	-9.52	89.72	104.00
11	AB	580	DA	O3'-P-O5'	-9.52	89.73	104.00
11	AB	790	DA	O3'-P-O5'	-9.52	89.73	104.00
11	AB	1881	DA	O3'-P-O5'	-9.52	89.73	104.00
11	AB	3413	DA	O3'-P-O5'	-9.52	89.73	104.00
11	AB	4507	DA	O3'-P-O5'	-9.52	89.73	104.00
11	AB	4557	DA	O3'-P-O5'	-9.52	89.73	104.00
11	AB	6633	DA	O3'-P-O5'	-9.52	89.73	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	B9	27	DA	O3'-P-O5'	-9.52	89.73	104.00
24	BC	26	DA	O3'-P-O5'	-9.52	89.73	104.00
113	JD	37	DA	O3'-P-O5'	-9.52	89.72	104.00
102	ID	20	DA	O3'-P-O5'	-9.52	89.73	104.00
108	J7	54	DA	O3'-P-O5'	-9.52	89.73	104.00
126	L2	50	DA	O3'-P-O5'	-9.52	89.73	104.00
130	L7	5	DA	O3'-P-O5'	-9.52	89.73	104.00
153	NA	20	DA	O3'-P-O5'	-9.52	89.73	104.00
161	O8	52	DA	O3'-P-O5'	-9.52	89.73	104.00
170	P7	16	DA	O3'-P-O5'	-9.52	89.72	104.00
198	S8	23	DA	O3'-P-O5'	-9.52	89.73	104.00
206	T7	37	DA	O3'-P-O5'	-9.52	89.73	104.00
206	T7	49	DA	O3'-P-O5'	-9.52	89.73	104.00
6	A6	22	DA	O3'-P-O5'	-9.51	89.73	104.00
8	A8	6	DA	O3'-P-O5'	-9.51	89.73	104.00
11	AB	1432	DA	O3'-P-O5'	-9.51	89.73	104.00
90	HC	26	DA	O3'-P-O5'	-9.51	89.73	104.00
11	AB	1414	DA	O3'-P-O5'	-9.51	89.73	104.00
11	AB	1638	DA	O3'-P-O5'	-9.51	89.73	104.00
11	AB	2712	DA	O3'-P-O5'	-9.51	89.73	104.00
11	AB	3809	DA	O3'-P-O5'	-9.51	89.73	104.00
11	AB	4201	DA	O3'-P-O5'	-9.51	89.73	104.00
11	AB	5433	DA	O3'-P-O5'	-9.51	89.73	104.00
11	AB	5473	DA	O3'-P-O5'	-9.51	89.73	104.00
11	AB	6153	DA	O3'-P-O5'	-9.51	89.73	104.00
29	C5	31	DA	O3'-P-O5'	-9.51	89.73	104.00
38	D2	10	DA	O3'-P-O5'	-9.51	89.73	104.00
43	D8	4	DA	O3'-P-O5'	-9.51	89.73	104.00
69	FD	30	DA	O3'-P-O5'	-9.51	89.73	104.00
73	G5	6	DA	O3'-P-O5'	-9.51	89.73	104.00
95	I5	41	DA	O3'-P-O5'	-9.51	89.73	104.00
100	IA	5	DA	O3'-P-O5'	-9.51	89.73	104.00
145	MD	23	DA	O3'-P-O5'	-9.51	89.73	104.00
161	O8	8	DA	O3'-P-O5'	-9.51	89.73	104.00
161	O8	56	DA	O3'-P-O5'	-9.51	89.73	104.00
207	T8	13	DA	O3'-P-O5'	-9.51	89.73	104.00
230	W3	18	DA	O3'-P-O5'	-9.51	89.73	104.00
213	U3	9	DA	O3'-P-O5'	-9.51	89.73	104.00
3	A3	19	DA	O3'-P-O5'	-9.51	89.73	104.00
11	AB	304	DA	O3'-P-O5'	-9.51	89.73	104.00
11	AB	326	DA	O3'-P-O5'	-9.51	89.73	104.00
11	AB	907	DA	O3'-P-O5'	-9.51	89.73	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1417	DA	O3'-P-O5'	-9.51	89.73	104.00
11	AB	2217	DA	O3'-P-O5'	-9.51	89.73	104.00
11	AB	5256	DA	O3'-P-O5'	-9.51	89.74	104.00
11	AB	6754	DA	O3'-P-O5'	-9.51	89.73	104.00
15	B2	19	DA	O3'-P-O5'	-9.51	89.73	104.00
18	B5	10	DA	O3'-P-O5'	-9.51	89.73	104.00
22	B9	46	DA	O3'-P-O5'	-9.51	89.73	104.00
40	D5	17	DA	O3'-P-O5'	-9.51	89.73	104.00
44	D9	22	DA	O3'-P-O5'	-9.51	89.73	104.00
61	F3	8	DA	O3'-P-O5'	-9.51	89.73	104.00
73	G5	21	DA	O3'-P-O5'	-9.51	89.73	104.00
155	ND	2	DA	O3'-P-O5'	-9.51	89.73	104.00
164	OC	25	DA	O3'-P-O5'	-9.51	89.73	104.00
40	D5	23	DA	O3'-P-O5'	-9.51	89.74	104.00
41	D6	8	DA	O3'-P-O5'	-9.51	89.74	104.00
58	ED	20	DA	O3'-P-O5'	-9.51	89.74	104.00
126	L2	44	DA	O3'-P-O5'	-9.51	89.73	104.00
152	N9	22	DA	O3'-P-O5'	-9.51	89.74	104.00
194	S2	17	DA	O3'-P-O5'	-9.51	89.73	104.00
199	S9	19	DA	O3'-P-O5'	-9.51	89.74	104.00
206	T7	6	DA	O3'-P-O5'	-9.51	89.73	104.00
225	V8	19	DA	O3'-P-O5'	-9.51	89.74	104.00
225	V8	23	DA	O3'-P-O5'	-9.51	89.73	104.00
6	A6	8	DA	O3'-P-O5'	-9.51	89.74	104.00
11	AB	988	DA	O3'-P-O5'	-9.51	89.74	104.00
11	AB	2568	DA	O3'-P-O5'	-9.51	89.74	104.00
11	AB	3218	DA	O3'-P-O5'	-9.51	89.74	104.00
11	AB	3632	DA	O3'-P-O5'	-9.51	89.74	104.00
47	DD	37	DA	O3'-P-O5'	-9.51	89.74	104.00
9	A9	17	DA	O3'-P-O5'	-9.51	89.74	104.00
11	AB	759	DA	O3'-P-O5'	-9.51	89.74	104.00
11	AB	922	DA	O3'-P-O5'	-9.51	89.74	104.00
11	AB	1187	DA	O3'-P-O5'	-9.51	89.74	104.00
11	AB	3754	DA	O3'-P-O5'	-9.51	89.74	104.00
11	AB	5505	DA	O3'-P-O5'	-9.51	89.74	104.00
11	AB	6297	DA	O3'-P-O5'	-9.51	89.74	104.00
11	AB	6922	DA	O3'-P-O5'	-9.51	89.74	104.00
24	BC	14	DA	O3'-P-O5'	-9.51	89.74	104.00
37	D1	16	DA	O3'-P-O5'	-9.51	89.74	104.00
238	X9	48	DA	O3'-P-O5'	-9.51	89.74	104.00
11	AB	3407	DA	O3'-P-O5'	-9.51	89.74	104.00
11	AB	5547	DA	O3'-P-O5'	-9.51	89.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	C6	2	DA	O3'-P-O5'	-9.51	89.74	104.00
30	C6	6	DA	O3'-P-O5'	-9.51	89.74	104.00
52	E6	29	DA	O3'-P-O5'	-9.51	89.74	104.00
71	G2	21	DA	O3'-P-O5'	-9.51	89.74	104.00
102	ID	25	DA	O3'-P-O5'	-9.51	89.74	104.00
125	L1	11	DA	O3'-P-O5'	-9.51	89.74	104.00
100	IA	22	DA	O3'-P-O5'	-9.51	89.74	104.00
109	J8	52	DA	O3'-P-O5'	-9.51	89.74	104.00
128	L5	22	DA	O3'-P-O5'	-9.51	89.74	104.00
169	P6	17	DA	O3'-P-O5'	-9.51	89.74	104.00
187	R5	17	DA	O3'-P-O5'	-9.51	89.74	104.00
190	R9	12	DA	O3'-P-O5'	-9.51	89.74	104.00
192	RC	6	DA	O3'-P-O5'	-9.51	89.74	104.00
209	TA	26	DA	O3'-P-O5'	-9.51	89.74	104.00
217	U9	6	DA	O3'-P-O5'	-9.51	89.74	104.00
8	A8	15	DA	O3'-P-O5'	-9.50	89.75	104.00
9	A9	9	DA	O3'-P-O5'	-9.50	89.75	104.00
11	AB	475	DA	O3'-P-O5'	-9.50	89.74	104.00
11	AB	4624	DA	O3'-P-O5'	-9.50	89.74	104.00
11	AB	4783	DA	O3'-P-O5'	-9.50	89.74	104.00
11	AB	5247	DA	O3'-P-O5'	-9.50	89.75	104.00
11	AB	7135	DA	O3'-P-O5'	-9.50	89.74	104.00
159	O6	19	DA	O3'-P-O5'	-9.50	89.74	104.00
187	R5	3	DA	O3'-P-O5'	-9.50	89.74	104.00
11	AB	3068	DA	O3'-P-O5'	-9.50	89.75	104.00
11	AB	3392	DA	O3'-P-O5'	-9.50	89.75	104.00
11	AB	4844	DA	O3'-P-O5'	-9.50	89.75	104.00
11	AB	5481	DA	O3'-P-O5'	-9.50	89.75	104.00
19	B6	16	DA	O3'-P-O5'	-9.50	89.75	104.00
22	B9	52	DA	O3'-P-O5'	-9.50	89.75	104.00
82	H2	35	DA	O3'-P-O5'	-9.50	89.74	104.00
31	C7	22	DA	O3'-P-O5'	-9.50	89.75	104.00
63	F6	16	DA	O3'-P-O5'	-9.50	89.75	104.00
119	K7	2	DA	O3'-P-O5'	-9.50	89.75	104.00
152	N9	37	DA	O3'-P-O5'	-9.50	89.75	104.00
155	ND	6	DA	O3'-P-O5'	-9.50	89.75	104.00
157	O3	11	DA	O3'-P-O5'	-9.50	89.75	104.00
187	R5	26	DA	O3'-P-O5'	-9.50	89.75	104.00
194	S2	13	DA	O3'-P-O5'	-9.50	89.75	104.00
202	SD	9	DA	O3'-P-O5'	-9.50	89.75	104.00
206	T7	35	DA	O3'-P-O5'	-9.50	89.75	104.00
211	TD	12	DA	O3'-P-O5'	-9.50	89.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	14	DA	O3'-P-O5'	-9.50	89.75	104.00
11	AB	1862	DA	O3'-P-O5'	-9.50	89.75	104.00
11	AB	1908	DA	O3'-P-O5'	-9.50	89.75	104.00
30	C6	30	DA	O3'-P-O5'	-9.50	89.75	104.00
85	H6	30	DA	O3'-P-O5'	-9.50	89.75	104.00
11	AB	2780	DA	O3'-P-O5'	-9.50	89.75	104.00
11	AB	4776	DA	O3'-P-O5'	-9.50	89.75	104.00
11	AB	4958	DA	O3'-P-O5'	-9.50	89.75	104.00
11	AB	5496	DA	O3'-P-O5'	-9.50	89.75	104.00
11	AB	6041	DA	O3'-P-O5'	-9.50	89.75	104.00
11	AB	6049	DA	O3'-P-O5'	-9.50	89.75	104.00
102	ID	22	DA	O3'-P-O5'	-9.50	89.75	104.00
24	BC	21	DA	O3'-P-O5'	-9.50	89.75	104.00
34	CA	10	DA	O3'-P-O5'	-9.50	89.75	104.00
49	E2	33	DA	O3'-P-O5'	-9.50	89.75	104.00
52	E6	27	DA	O3'-P-O5'	-9.50	89.75	104.00
66	F9	6	DA	O3'-P-O5'	-9.50	89.75	104.00
84	H5	13	DA	O3'-P-O5'	-9.50	89.75	104.00
107	J6	39	DA	O3'-P-O5'	-9.50	89.75	104.00
146	N2	13	DA	O3'-P-O5'	-9.50	89.75	104.00
160	O7	7	DA	O3'-P-O5'	-9.50	89.75	104.00
194	S2	24	DA	O3'-P-O5'	-9.50	89.75	104.00
211	TD	20	DA	O3'-P-O5'	-9.50	89.75	104.00
233	W8	12	DA	O3'-P-O5'	-9.50	89.75	104.00
11	AB	5748	DA	O3'-P-O5'	-9.50	89.75	104.00
11	AB	5551	DA	O3'-P-O5'	-9.50	89.76	104.00
11	AB	6356	DA	O3'-P-O5'	-9.50	89.75	104.00
11	AB	6629	DA	O3'-P-O5'	-9.50	89.76	104.00
11	AB	6692	DA	O3'-P-O5'	-9.50	89.75	104.00
11	AB	7024	DA	O3'-P-O5'	-9.50	89.75	104.00
22	B9	12	DA	O3'-P-O5'	-9.50	89.75	104.00
47	DD	40	DA	O3'-P-O5'	-9.50	89.76	104.00
61	F3	12	DA	O3'-P-O5'	-9.50	89.75	104.00
64	F7	23	DA	O3'-P-O5'	-9.50	89.75	104.00
83	H3	29	DA	O3'-P-O5'	-9.50	89.75	104.00
189	R8	30	DA	O3'-P-O5'	-9.50	89.75	104.00
11	AB	284	DA	O3'-P-O5'	-9.49	89.76	104.00
82	H2	53	DA	O3'-P-O5'	-9.49	89.76	104.00
104	J2	2	DA	O3'-P-O5'	-9.49	89.76	104.00
217	U9	10	DA	O3'-P-O5'	-9.49	89.76	104.00
10	AA	22	DA	O3'-P-O5'	-9.49	89.76	104.00
11	AB	703	DA	O3'-P-O5'	-9.49	89.76	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2143	DA	O3'-P-O5'	-9.49	89.76	104.00
11	AB	4019	DA	O3'-P-O5'	-9.49	89.76	104.00
206	T7	8	DA	O3'-P-O5'	-9.49	89.76	104.00
11	AB	4700	DA	O3'-P-O5'	-9.49	89.76	104.00
11	AB	6824	DA	O3'-P-O5'	-9.49	89.76	104.00
60	F2	21	DA	O3'-P-O5'	-9.49	89.76	104.00
85	H6	15	DA	O3'-P-O5'	-9.49	89.76	104.00
234	W9	6	DA	O3'-P-O5'	-9.49	89.76	104.00
94	I3	44	DA	O3'-P-O5'	-9.49	89.76	104.00
113	JD	2	DA	O3'-P-O5'	-9.49	89.76	104.00
169	P6	15	DA	O3'-P-O5'	-9.49	89.76	104.00
11	AB	3086	DA	O3'-P-O5'	-9.49	89.76	104.00
22	B9	23	DA	O3'-P-O5'	-9.49	89.76	104.00
11	AB	3583	DA	O3'-P-O5'	-9.49	89.77	104.00
75	G7	23	DA	O3'-P-O5'	-9.49	89.77	104.00
116	K3	9	DA	O3'-P-O5'	-9.49	89.76	104.00
123	KC	17	DA	O3'-P-O5'	-9.49	89.77	104.00
139	M6	3	DA	O3'-P-O5'	-9.49	89.76	104.00
196	S5	11	DA	O3'-P-O5'	-9.49	89.77	104.00
11	AB	3552	DA	O3'-P-O5'	-9.49	89.77	104.00
20	B7	12	DA	O3'-P-O5'	-9.49	89.77	104.00
36	CD	13	DA	O3'-P-O5'	-9.49	89.77	104.00
166	P2	27	DA	O3'-P-O5'	-9.49	89.77	104.00
98	I8	36	DA	O3'-P-O5'	-9.49	89.77	104.00
140	M7	15	DA	O3'-P-O5'	-9.49	89.77	104.00
181	Q9	19	DA	O3'-P-O5'	-9.49	89.77	104.00
11	AB	892	DA	O3'-P-O5'	-9.48	89.77	104.00
11	AB	3805	DA	O3'-P-O5'	-9.48	89.77	104.00
11	AB	4636	DA	O3'-P-O5'	-9.48	89.77	104.00
67	FA	17	DA	O3'-P-O5'	-9.48	89.77	104.00
209	TA	32	DA	O3'-P-O5'	-9.48	89.77	104.00
102	ID	29	DA	O3'-P-O5'	-9.48	89.78	104.00
219	UC	17	DA	O3'-P-O5'	-9.48	89.77	104.00
11	AB	3635	DA	O3'-P-O5'	-9.48	89.78	104.00
132	L9	10	DA	O3'-P-O5'	-9.48	89.78	104.00
11	AB	6023	DA	O3'-P-O5'	-9.47	89.79	104.00
82	H2	42	DA	O3'-P-O5'	-9.47	89.79	104.00
130	L7	33	DA	O3'-P-O5'	-9.47	89.79	104.00
11	AB	372	DT	O3'-P-O5'	-9.46	89.80	104.00
11	AB	5762	DA	O3'-P-O5'	-9.46	89.81	104.00
11	AB	1130	DT	O3'-P-O5'	-9.46	89.82	104.00
11	AB	5640	DT	O3'-P-O5'	-9.45	89.82	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
143	MA	8	DT	O3'-P-O5'	-9.45	89.82	104.00
11	AB	6812	DT	O3'-P-O5'	-9.45	89.83	104.00
24	BC	33	DT	O3'-P-O5'	-9.45	89.83	104.00
11	AB	1136	DT	O3'-P-O5'	-9.44	89.84	104.00
183	QC	9	DT	O3'-P-O5'	-9.44	89.84	104.00
11	AB	4240	DT	O3'-P-O5'	-9.44	89.84	104.00
11	AB	3687	DT	O3'-P-O5'	-9.44	89.84	104.00
13	AD	42	DT	O3'-P-O5'	-9.44	89.84	104.00
11	AB	7189	DT	O3'-P-O5'	-9.44	89.85	104.00
11	AB	832	DT	O3'-P-O5'	-9.43	89.85	104.00
11	AB	2985	DT	O3'-P-O5'	-9.43	89.85	104.00
11	AB	3660	DT	O3'-P-O5'	-9.43	89.85	104.00
72	G3	27	DT	O3'-P-O5'	-9.43	89.85	104.00
11	AB	1151	DT	O3'-P-O5'	-9.43	89.85	104.00
11	AB	1823	DT	O3'-P-O5'	-9.43	89.85	104.00
11	AB	2192	DT	O3'-P-O5'	-9.43	89.85	104.00
11	AB	4662	DT	O3'-P-O5'	-9.43	89.85	104.00
11	AB	6071	DT	O3'-P-O5'	-9.43	89.85	104.00
11	AB	6567	DT	O3'-P-O5'	-9.43	89.85	104.00
83	H3	4	DT	O3'-P-O5'	-9.43	89.85	104.00
93	I2	44	DT	O3'-P-O5'	-9.43	89.85	104.00
125	L1	1	DT	O3'-P-O5'	-9.43	89.85	104.00
152	N9	28	DT	O3'-P-O5'	-9.43	89.85	104.00
11	AB	3459	DT	O3'-P-O5'	-9.43	89.85	104.00
11	AB	7071	DT	O3'-P-O5'	-9.43	89.85	104.00
11	AB	419	DT	O3'-P-O5'	-9.43	89.86	104.00
11	AB	2825	DT	O3'-P-O5'	-9.43	89.86	104.00
11	AB	6303	DT	O3'-P-O5'	-9.43	89.85	104.00
11	AB	956	DT	O3'-P-O5'	-9.43	89.86	104.00
11	AB	1094	DT	O3'-P-O5'	-9.43	89.86	104.00
11	AB	1961	DT	O3'-P-O5'	-9.43	89.86	104.00
11	AB	4095	DT	O3'-P-O5'	-9.43	89.86	104.00
11	AB	4427	DT	O3'-P-O5'	-9.43	89.86	104.00
11	AB	6122	DT	O3'-P-O5'	-9.43	89.86	104.00
29	C5	2	DT	O3'-P-O5'	-9.43	89.86	104.00
130	L7	54	DT	O3'-P-O5'	-9.43	89.86	104.00
144	MC	11	DT	O3'-P-O5'	-9.43	89.86	104.00
152	N9	1	DT	O3'-P-O5'	-9.43	89.86	104.00
11	AB	2488	DT	O3'-P-O5'	-9.43	89.86	104.00
70	G1	4	DT	O3'-P-O5'	-9.43	89.86	104.00
188	R7	12	DT	O3'-P-O5'	-9.43	89.86	104.00
215	U7	13	DT	O3'-P-O5'	-9.43	89.86	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1684	DT	O3'-P-O5'	-9.43	89.86	104.00
11	AB	2105	DT	O3'-P-O5'	-9.43	89.86	104.00
11	AB	3180	DT	O3'-P-O5'	-9.43	89.86	104.00
11	AB	3288	DT	O3'-P-O5'	-9.43	89.86	104.00
11	AB	4279	DT	O3'-P-O5'	-9.43	89.86	104.00
11	AB	4519	DT	O3'-P-O5'	-9.43	89.86	104.00
11	AB	4849	DT	O3'-P-O5'	-9.43	89.86	104.00
11	AB	5008	DT	O3'-P-O5'	-9.43	89.86	104.00
11	AB	5381	DT	O3'-P-O5'	-9.43	89.86	104.00
11	AB	6399	DT	O3'-P-O5'	-9.43	89.86	104.00
57	EC	13	DT	O3'-P-O5'	-9.43	89.86	104.00
72	G3	3	DT	O3'-P-O5'	-9.43	89.86	104.00
129	L6	22	DT	O3'-P-O5'	-9.43	89.86	104.00
218	UA	17	DT	O3'-P-O5'	-9.43	89.86	104.00
4	A4	22	DT	O3'-P-O5'	-9.42	89.86	104.00
5	A5	2	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	264	DT	O3'-P-O5'	-9.42	89.86	104.00
11	AB	650	DT	O3'-P-O5'	-9.42	89.86	104.00
90	HC	6	DT	O3'-P-O5'	-9.42	89.86	104.00
11	AB	734	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	2678	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	3465	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	3519	DT	O3'-P-O5'	-9.42	89.86	104.00
11	AB	3675	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	4468	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	5064	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	5874	DT	O3'-P-O5'	-9.42	89.87	104.00
64	F7	13	DT	O3'-P-O5'	-9.42	89.87	104.00
78	GA	11	DT	O3'-P-O5'	-9.42	89.86	104.00
125	L1	47	DT	O3'-P-O5'	-9.42	89.87	104.00
213	U3	15	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	926	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	1025	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	1540	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	1970	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	3129	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	3162	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	4282	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	3690	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	5240	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	5586	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	7039	DT	O3'-P-O5'	-9.42	89.87	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
61	F3	5	DT	O3'-P-O5'	-9.42	89.87	104.00
84	H5	8	DT	O3'-P-O5'	-9.42	89.87	104.00
154	NC	3	DT	O3'-P-O5'	-9.42	89.87	104.00
231	W5	12	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	2817	DT	O3'-P-O5'	-9.42	89.87	104.00
11	AB	5227	DT	O3'-P-O5'	-9.42	89.87	104.00
114	K1	43	DT	O3'-P-O5'	-9.42	89.87	104.00
7	A7	13	DT	O3'-P-O5'	-9.42	89.88	104.00
11	AB	806	DT	O3'-P-O5'	-9.42	89.88	104.00
11	AB	1160	DT	O3'-P-O5'	-9.42	89.88	104.00
11	AB	1696	DT	O3'-P-O5'	-9.42	89.88	104.00
11	AB	1988	DT	O3'-P-O5'	-9.42	89.88	104.00
11	AB	3846	DT	O3'-P-O5'	-9.42	89.88	104.00
11	AB	4008	DT	O3'-P-O5'	-9.42	89.88	104.00
11	AB	5015	DT	O3'-P-O5'	-9.42	89.88	104.00
11	AB	5801	DT	O3'-P-O5'	-9.42	89.88	104.00
11	AB	6003	DT	O3'-P-O5'	-9.42	89.88	104.00
55	E9	44	DT	O3'-P-O5'	-9.42	89.88	104.00
105	J3	8	DT	O3'-P-O5'	-9.42	89.87	104.00
151	N8	18	DT	O3'-P-O5'	-9.42	89.87	104.00
204	T3	16	DT	O3'-P-O5'	-9.42	89.87	104.00
227	VA	10	DT	O3'-P-O5'	-9.42	89.87	104.00
79	GC	20	DT	O3'-P-O5'	-9.42	89.88	104.00
152	N9	42	DT	O3'-P-O5'	-9.42	89.88	104.00
166	P2	5	DT	O3'-P-O5'	-9.42	89.87	104.00
226	V9	27	DT	O3'-P-O5'	-9.42	89.88	104.00
233	W8	20	DT	O3'-P-O5'	-9.42	89.88	104.00
7	A7	10	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	410	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	665	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	680	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	1314	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	1405	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	1558	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	3992	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	215	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	1142	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	1844	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	2094	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	3765	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	4995	DT	O3'-P-O5'	-9.41	89.88	104.00
67	FA	30	DT	O3'-P-O5'	-9.41	89.88	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
192	RC	32	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	2066	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	3702	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	4549	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	5023	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	5463	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	6872	DT	O3'-P-O5'	-9.41	89.88	104.00
99	I9	13	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	4724	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	5398	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	6129	DT	O3'-P-O5'	-9.41	89.88	104.00
133	LA	5	DT	O3'-P-O5'	-9.41	89.88	104.00
135	LD	5	DT	O3'-P-O5'	-9.41	89.88	104.00
180	Q8	23	DT	O3'-P-O5'	-9.41	89.88	104.00
214	U5	20	DT	O3'-P-O5'	-9.41	89.88	104.00
217	U9	27	DT	O3'-P-O5'	-9.41	89.88	104.00
230	W3	8	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	389	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	425	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	2336	DT	O3'-P-O5'	-9.41	89.88	104.00
77	G9	16	DT	O3'-P-O5'	-9.41	89.88	104.00
5	A5	40	DT	O3'-P-O5'	-9.41	89.89	104.00
8	A8	23	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	360	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	398	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	962	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	1091	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	1316	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	1394	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	1500	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	2021	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	2333	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	2867	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	3150	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	3648	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	4924	DT	O3'-P-O5'	-9.41	89.88	104.00
41	D6	17	DT	O3'-P-O5'	-9.41	89.88	104.00
57	EC	20	DT	O3'-P-O5'	-9.41	89.88	104.00
88	H9	9	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	3696	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	4534	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	4621	DT	O3'-P-O5'	-9.41	89.89	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5004	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	5080	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	5813	DT	O3'-P-O5'	-9.41	89.89	104.00
104	J2	20	DT	O3'-P-O5'	-9.41	89.88	104.00
143	MA	33	DT	O3'-P-O5'	-9.41	89.89	104.00
198	S8	7	DT	O3'-P-O5'	-9.41	89.89	104.00
198	S8	26	DT	O3'-P-O5'	-9.41	89.88	104.00
11	AB	413	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	434	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	827	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	2177	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	2195	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	3012	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	3174	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	3486	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	3843	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	4682	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	7082	DT	O3'-P-O5'	-9.41	89.89	104.00
36	CD	18	DT	O3'-P-O5'	-9.41	89.89	104.00
117	K5	38	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	3516	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	4680	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	5092	DT	O3'-P-O5'	-9.41	89.89	104.00
106	J5	11	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	6504	DT	O3'-P-O5'	-9.41	89.89	104.00
76	G8	2	DT	O3'-P-O5'	-9.41	89.89	104.00
122	KA	4	DT	O3'-P-O5'	-9.41	89.89	104.00
123	KC	15	DT	O3'-P-O5'	-9.41	89.89	104.00
11	AB	730	DT	O3'-P-O5'	-9.40	89.89	104.00
11	AB	404	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	1067	DT	O3'-P-O5'	-9.40	89.89	104.00
11	AB	6749	DT	O3'-P-O5'	-9.40	89.89	104.00
98	I8	43	DT	O3'-P-O5'	-9.40	89.89	104.00
172	P9	18	DT	O3'-P-O5'	-9.40	89.89	104.00
11	AB	1570	DT	O3'-P-O5'	-9.40	89.89	104.00
11	AB	1854	DT	O3'-P-O5'	-9.40	89.89	104.00
11	AB	2121	DT	O3'-P-O5'	-9.40	89.89	104.00
11	AB	2408	DT	O3'-P-O5'	-9.40	89.89	104.00
11	AB	2973	DT	O3'-P-O5'	-9.40	89.89	104.00
11	AB	3951	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	4093	DT	O3'-P-O5'	-9.40	89.89	104.00
11	AB	4126	DT	O3'-P-O5'	-9.40	89.90	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4465	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	4857	DT	O3'-P-O5'	-9.40	89.89	104.00
11	AB	5151	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	5287	DT	O3'-P-O5'	-9.40	89.89	104.00
11	AB	5298	DT	O3'-P-O5'	-9.40	89.89	104.00
11	AB	5582	DT	O3'-P-O5'	-9.40	89.89	104.00
11	AB	5727	DT	O3'-P-O5'	-9.40	89.89	104.00
11	AB	5797	DT	O3'-P-O5'	-9.40	89.89	104.00
11	AB	6317	DT	O3'-P-O5'	-9.40	89.89	104.00
11	AB	6745	DT	O3'-P-O5'	-9.40	89.89	104.00
11	AB	7049	DT	O3'-P-O5'	-9.40	89.89	104.00
55	E9	10	DT	O3'-P-O5'	-9.40	89.89	104.00
215	U7	22	DT	O3'-P-O5'	-9.40	89.89	104.00
111	JA	11	DT	O3'-P-O5'	-9.40	89.89	104.00
115	K2	26	DT	O3'-P-O5'	-9.40	89.89	104.00
119	K7	34	DT	O3'-P-O5'	-9.40	89.89	104.00
124	KD	5	DT	O3'-P-O5'	-9.40	89.89	104.00
152	N9	11	DT	O3'-P-O5'	-9.40	89.89	104.00
154	NC	20	DT	O3'-P-O5'	-9.40	89.90	104.00
207	T8	18	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	1015	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	2212	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	3132	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	3768	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	5069	DT	O3'-P-O5'	-9.40	89.90	104.00
149	N6	1	DT	O3'-P-O5'	-9.40	89.90	104.00
173	PA	17	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	5233	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	5577	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	5805	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	6664	DT	O3'-P-O5'	-9.40	89.90	104.00
103	J1	12	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	6794	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	6809	DT	O3'-P-O5'	-9.40	89.90	104.00
45	DA	10	DT	O3'-P-O5'	-9.40	89.90	104.00
187	R5	13	DT	O3'-P-O5'	-9.40	89.90	104.00
32	C8	14	DT	O3'-P-O5'	-9.40	89.90	104.00
42	D7	6	DT	O3'-P-O5'	-9.40	89.90	104.00
55	E9	28	DT	O3'-P-O5'	-9.40	89.90	104.00
115	K2	14	DT	O3'-P-O5'	-9.40	89.90	104.00
121	K9	19	DT	O3'-P-O5'	-9.40	89.90	104.00
174	PC	22	DT	O3'-P-O5'	-9.40	89.90	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
204	T3	19	DT	O3'-P-O5'	-9.40	89.90	104.00
230	W3	12	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	383	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	1310	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	3447	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	4794	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	1049	DT	O3'-P-O5'	-9.40	89.91	104.00
11	AB	1676	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	1802	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	3021	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	7179	DT	O3'-P-O5'	-9.40	89.90	104.00
41	D6	34	DT	O3'-P-O5'	-9.40	89.90	104.00
154	NC	33	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	1966	DT	O3'-P-O5'	-9.40	89.91	104.00
11	AB	2090	DT	O3'-P-O5'	-9.40	89.91	104.00
11	AB	2354	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	2798	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	3033	DT	O3'-P-O5'	-9.40	89.91	104.00
11	AB	4885	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	3441	DT	O3'-P-O5'	-9.40	89.91	104.00
11	AB	3477	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	4270	DT	O3'-P-O5'	-9.40	89.90	104.00
109	J8	32	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	3501	DT	O3'-P-O5'	-9.40	89.91	104.00
11	AB	3513	DT	O3'-P-O5'	-9.40	89.91	104.00
11	AB	3603	DT	O3'-P-O5'	-9.40	89.91	104.00
11	AB	5303	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	5817	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	6176	DT	O3'-P-O5'	-9.40	89.90	104.00
11	AB	6254	DT	O3'-P-O5'	-9.40	89.91	104.00
11	AB	6490	DT	O3'-P-O5'	-9.40	89.91	104.00
11	AB	6564	DT	O3'-P-O5'	-9.40	89.91	104.00
11	AB	6892	DT	O3'-P-O5'	-9.40	89.90	104.00
17	B4	21	DT	O3'-P-O5'	-9.40	89.91	104.00
29	C5	41	DT	O3'-P-O5'	-9.40	89.90	104.00
44	D9	6	DT	O3'-P-O5'	-9.40	89.90	104.00
51	E5	22	DT	O3'-P-O5'	-9.40	89.90	104.00
57	EC	8	DT	O3'-P-O5'	-9.40	89.91	104.00
77	G9	7	DT	O3'-P-O5'	-9.40	89.90	104.00
117	K5	16	DT	O3'-P-O5'	-9.40	89.91	104.00
145	MD	45	DT	O3'-P-O5'	-9.40	89.90	104.00
160	O7	15	DT	O3'-P-O5'	-9.40	89.91	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	212	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	578	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	971	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	4098	DT	O3'-P-O5'	-9.39	89.91	104.00
66	F9	18	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	977	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	1375	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	2343	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	3153	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	3773	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	4552	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	5387	DT	O3'-P-O5'	-9.39	89.91	104.00
23	BA	35	DT	O3'-P-O5'	-9.39	89.91	104.00
138	M5	15	DT	O3'-P-O5'	-9.39	89.91	104.00
204	T3	34	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	607	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	851	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	1145	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	2000	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	3309	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	1298	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	1720	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	2030	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	2186	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	2509	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	2828	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	3444	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	4113	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	5230	DT	O3'-P-O5'	-9.39	89.91	104.00
81	H1	5	DT	O3'-P-O5'	-9.39	89.91	104.00
11	AB	5792	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	6228	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	6674	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	7192	DT	O3'-P-O5'	-9.39	89.91	104.00
22	B9	3	DT	O3'-P-O5'	-9.39	89.91	104.00
53	E7	10	DT	O3'-P-O5'	-9.39	89.91	104.00
74	G6	28	DT	O3'-P-O5'	-9.39	89.91	104.00
102	ID	7	DT	O3'-P-O5'	-9.39	89.91	104.00
216	U8	23	DT	O3'-P-O5'	-9.39	89.91	104.00
133	LA	1	DT	O3'-P-O5'	-9.39	89.91	104.00
238	X9	9	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	1379	DT	O3'-P-O5'	-9.39	89.92	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3777	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	182	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	206	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	5781	DT	O3'-P-O5'	-9.39	89.92	104.00
126	L2	15	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	1163	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	1551	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	2862	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	2955	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	4537	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	4606	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	4863	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	5467	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	6261	DT	O3'-P-O5'	-9.39	89.92	104.00
19	B6	8	DT	O3'-P-O5'	-9.39	89.92	104.00
86	H7	10	DT	O3'-P-O5'	-9.39	89.92	104.00
108	J7	19	DT	O3'-P-O5'	-9.39	89.92	104.00
119	K7	38	DT	O3'-P-O5'	-9.39	89.92	104.00
128	L5	9	DT	O3'-P-O5'	-9.39	89.92	104.00
190	R9	7	DT	O3'-P-O5'	-9.39	89.92	104.00
222	V3	20	DT	O3'-P-O5'	-9.39	89.92	104.00
228	VC	8	DT	O3'-P-O5'	-9.39	89.92	104.00
2	A2	22	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	449	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	854	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	1850	DT	O3'-P-O5'	-9.39	89.92	104.00
47	DD	14	DT	O3'-P-O5'	-9.39	89.92	104.00
101	IC	24	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	440	DT	O3'-P-O5'	-9.38	89.92	104.00
11	AB	1154	DT	O3'-P-O5'	-9.38	89.92	104.00
11	AB	1705	DT	O3'-P-O5'	-9.38	89.92	104.00
11	AB	2961	DT	O3'-P-O5'	-9.38	89.92	104.00
11	AB	3315	DT	O3'-P-O5'	-9.38	89.92	104.00
11	AB	3605	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	4294	DT	O3'-P-O5'	-9.38	89.92	104.00
11	AB	4627	DT	O3'-P-O5'	-9.38	89.92	104.00
23	BA	32	DT	O3'-P-O5'	-9.39	89.92	104.00
11	AB	5610	DT	O3'-P-O5'	-9.38	89.92	104.00
11	AB	7198	DT	O3'-P-O5'	-9.38	89.92	104.00
46	DC	15	DT	O3'-P-O5'	-9.38	89.92	104.00
76	G8	17	DT	O3'-P-O5'	-9.38	89.92	104.00
156	O2	25	DT	O3'-P-O5'	-9.38	89.92	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	935	DT	O3'-P-O5'	-9.38	89.93	104.00
11	AB	6517	DT	O3'-P-O5'	-9.38	89.93	104.00
118	K6	8	DT	O3'-P-O5'	-9.38	89.92	104.00
11	AB	953	DT	O3'-P-O5'	-9.38	89.93	104.00
11	AB	2805	DT	O3'-P-O5'	-9.38	89.93	104.00
11	AB	2832	DT	O3'-P-O5'	-9.38	89.93	104.00
11	AB	3468	DT	O3'-P-O5'	-9.38	89.93	104.00
211	TD	22	DT	O3'-P-O5'	-9.38	89.93	104.00
108	J7	29	DT	O3'-P-O5'	-9.38	89.93	104.00
114	K1	9	DT	O3'-P-O5'	-9.38	89.93	104.00
152	N9	40	DT	O3'-P-O5'	-9.38	89.93	104.00
206	T7	14	DT	O3'-P-O5'	-9.38	89.93	104.00
215	U7	20	DT	O3'-P-O5'	-9.38	89.93	104.00
11	AB	2261	DT	O3'-P-O5'	-9.38	89.93	104.00
11	AB	4275	DT	O3'-P-O5'	-9.38	89.93	104.00
11	AB	4328	DT	O3'-P-O5'	-9.38	89.93	104.00
206	T7	11	DT	O3'-P-O5'	-9.38	89.93	104.00
238	X9	6	DT	O3'-P-O5'	-9.38	89.93	104.00
11	AB	4949	DT	O3'-P-O5'	-9.38	89.93	104.00
119	K7	20	DT	O3'-P-O5'	-9.38	89.93	104.00
141	M8	20	DT	O3'-P-O5'	-9.38	89.93	104.00
152	N9	46	DT	O3'-P-O5'	-9.38	89.93	104.00
11	AB	1976	DT	O3'-P-O5'	-9.38	89.94	104.00
11	AB	5922	DT	O3'-P-O5'	-9.37	89.94	104.00
11	AB	6498	DT	O3'-P-O5'	-9.38	89.94	104.00
11	AB	7068	DT	O3'-P-O5'	-9.38	89.94	104.00
11	AB	7230	DT	O3'-P-O5'	-9.38	89.94	104.00
11	AB	845	DT	O3'-P-O5'	-9.37	89.94	104.00
11	AB	2417	DT	O3'-P-O5'	-9.37	89.94	104.00
11	AB	4889	DT	O3'-P-O5'	-9.37	89.94	104.00
188	R7	27	DT	O3'-P-O5'	-9.37	89.94	104.00
222	V3	23	DT	O3'-P-O5'	-9.37	89.94	104.00
11	AB	1259	DT	O3'-P-O5'	-9.37	89.94	104.00
11	AB	2202	DT	O3'-P-O5'	-9.37	89.94	104.00
11	AB	3099	DT	O3'-P-O5'	-9.37	89.95	104.00
11	AB	6344	DT	O3'-P-O5'	-9.37	89.94	104.00
11	AB	4742	DT	O3'-P-O5'	-9.37	89.95	104.00
156	O2	9	DT	O3'-P-O5'	-9.37	89.95	104.00
11	AB	7027	DT	O3'-P-O5'	-9.37	89.95	104.00
11	AB	869	DT	O3'-P-O5'	-9.37	89.95	104.00
23	BA	29	DT	O3'-P-O5'	-9.37	89.95	104.00
11	AB	1666	DT	O3'-P-O5'	-9.36	89.95	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2017	DT	O3'-P-O5'	-9.36	89.95	104.00
11	AB	4356	DT	O3'-P-O5'	-9.36	89.95	104.00
11	AB	320	DT	O3'-P-O5'	-9.36	89.96	104.00
11	AB	473	DT	O3'-P-O5'	-9.36	89.95	104.00
11	AB	482	DT	O3'-P-O5'	-9.36	89.95	104.00
172	P9	27	DT	O3'-P-O5'	-9.36	89.95	104.00
11	AB	866	DT	O3'-P-O5'	-9.36	89.96	104.00
11	AB	991	DT	O3'-P-O5'	-9.36	89.96	104.00
11	AB	3038	DT	O3'-P-O5'	-9.36	89.96	104.00
11	AB	3789	DT	O3'-P-O5'	-9.36	89.96	104.00
11	AB	3398	DT	O3'-P-O5'	-9.36	89.96	104.00
11	AB	3891	DT	O3'-P-O5'	-9.36	89.96	104.00
11	AB	4746	DT	O3'-P-O5'	-9.36	89.96	104.00
11	AB	6420	DT	O3'-P-O5'	-9.36	89.96	104.00
11	AB	7014	DT	O3'-P-O5'	-9.36	89.96	104.00
158	O5	52	DT	O3'-P-O5'	-9.36	89.96	104.00
11	AB	3726	DT	O3'-P-O5'	-9.36	89.96	104.00
11	AB	3794	DT	O3'-P-O5'	-9.36	89.96	104.00
11	AB	5322	DT	O3'-P-O5'	-9.36	89.96	104.00
11	AB	2294	DT	O3'-P-O5'	-9.36	89.96	104.00
11	AB	4364	DT	O3'-P-O5'	-9.36	89.96	104.00
11	AB	5655	DT	O3'-P-O5'	-9.36	89.96	104.00
56	EA	7	DT	O3'-P-O5'	-9.36	89.96	104.00
160	O7	25	DT	O3'-P-O5'	-9.36	89.96	104.00
11	AB	4788	DT	O3'-P-O5'	-9.36	89.96	104.00
11	AB	5680	DT	O3'-P-O5'	-9.36	89.97	104.00
11	AB	872	DT	O3'-P-O5'	-9.36	89.97	104.00
11	AB	1874	DT	O3'-P-O5'	-9.36	89.97	104.00
11	AB	3965	DT	O3'-P-O5'	-9.36	89.97	104.00
32	C8	52	DT	O3'-P-O5'	-9.36	89.97	104.00
226	V9	3	DT	O3'-P-O5'	-9.36	89.97	104.00
11	AB	313	DT	O3'-P-O5'	-9.35	89.97	104.00
11	AB	539	DT	O3'-P-O5'	-9.35	89.97	104.00
11	AB	896	DT	O3'-P-O5'	-9.35	89.97	104.00
11	AB	713	DT	O3'-P-O5'	-9.35	89.97	104.00
11	AB	2061	DT	O3'-P-O5'	-9.35	89.97	104.00
11	AB	2627	DT	O3'-P-O5'	-9.35	89.97	104.00
11	AB	3752	DT	O3'-P-O5'	-9.35	89.97	104.00
11	AB	788	DT	O3'-P-O5'	-9.35	89.97	104.00
11	AB	2300	DT	O3'-P-O5'	-9.35	89.97	104.00
11	AB	3915	DT	O3'-P-O5'	-9.35	89.97	104.00
11	AB	5492	DT	O3'-P-O5'	-9.35	89.97	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6327	DT	O3'-P-O5'	-9.35	89.97	104.00
11	AB	6830	DT	O3'-P-O5'	-9.35	89.97	104.00
11	AB	6968	DT	O3'-P-O5'	-9.35	89.97	104.00
16	B3	15	DT	O3'-P-O5'	-9.35	89.97	104.00
91	HD	14	DT	O3'-P-O5'	-9.35	89.97	104.00
96	I6	9	DT	O3'-P-O5'	-9.35	89.97	104.00
97	I7	13	DT	O3'-P-O5'	-9.35	89.97	104.00
151	N8	14	DT	O3'-P-O5'	-9.35	89.97	104.00
11	AB	2034	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	2156	DT	O3'-P-O5'	-9.35	89.97	104.00
11	AB	2621	DT	O3'-P-O5'	-9.35	89.97	104.00
11	AB	4067	DT	O3'-P-O5'	-9.35	89.97	104.00
11	AB	4570	DT	O3'-P-O5'	-9.35	89.97	104.00
11	AB	2378	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	3363	DT	O3'-P-O5'	-9.35	89.98	104.00
118	K6	17	DT	O3'-P-O5'	-9.35	89.97	104.00
11	AB	3375	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	3681	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	3821	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	4334	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	5502	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	7159	DT	O3'-P-O5'	-9.35	89.98	104.00
27	C2	8	DT	O3'-P-O5'	-9.35	89.98	104.00
101	IC	12	DT	O3'-P-O5'	-9.35	89.98	104.00
201	SC	4	DT	O3'-P-O5'	-9.35	89.97	104.00
219	UC	7	DT	O3'-P-O5'	-9.35	89.97	104.00
122	KA	43	DT	O3'-P-O5'	-9.35	89.98	104.00
218	UA	4	DT	O3'-P-O5'	-9.35	89.98	104.00
232	W7	11	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	890	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	1274	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	1749	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	2543	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	2899	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	3114	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	3246	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	3276	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	3423	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	5487	DT	O3'-P-O5'	-9.35	89.98	104.00
184	QD	13	DT	O3'-P-O5'	-9.35	89.98	104.00
236	X5	8	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	3924	DT	O3'-P-O5'	-9.35	89.98	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5733	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	5898	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	6018	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	6539	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	6856	DT	O3'-P-O5'	-9.35	89.98	104.00
22	B9	40	DT	O3'-P-O5'	-9.35	89.98	104.00
90	HC	20	DT	O3'-P-O5'	-9.35	89.98	104.00
108	J7	4	DT	O3'-P-O5'	-9.35	89.98	104.00
11	AB	63	DT	O3'-P-O5'	-9.34	89.98	104.00
11	AB	3599	DT	O3'-P-O5'	-9.34	89.98	104.00
11	AB	6836	DT	O3'-P-O5'	-9.34	89.98	104.00
74	G6	32	DT	O3'-P-O5'	-9.34	89.98	104.00
136	M2	5	DT	O3'-P-O5'	-9.34	89.98	104.00
11	AB	545	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	1180	DT	O3'-P-O5'	-9.34	89.98	104.00
140	M7	21	DT	O3'-P-O5'	-9.34	89.98	104.00
11	AB	1642	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	2537	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	2892	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	4744	DT	O3'-P-O5'	-9.34	89.98	104.00
11	AB	4752	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	5275	DT	O3'-P-O5'	-9.34	89.99	104.00
30	C6	15	DT	O3'-P-O5'	-9.34	89.99	104.00
35	CC	29	DT	O3'-P-O5'	-9.34	89.99	104.00
102	ID	16	DT	O3'-P-O5'	-9.34	89.99	104.00
223	V5	12	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	1115	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	1479	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	6619	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	1199	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	5272	DT	O3'-P-O5'	-9.34	89.99	104.00
49	E2	31	DT	O3'-P-O5'	-9.34	89.99	104.00
65	F8	2	DT	O3'-P-O5'	-9.34	89.99	104.00
172	P9	14	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	6207	DT	O3'-P-O5'	-9.34	89.99	104.00
31	C7	29	DT	O3'-P-O5'	-9.34	89.99	104.00
85	H6	20	DT	O3'-P-O5'	-9.34	89.99	104.00
121	K9	26	DT	O3'-P-O5'	-9.34	89.99	104.00
175	PD	7	DT	O3'-P-O5'	-9.34	89.99	104.00
207	T8	8	DT	O3'-P-O5'	-9.34	89.99	104.00
141	M8	14	DT	O3'-P-O5'	-9.34	89.99	104.00
180	Q8	9	DT	O3'-P-O5'	-9.34	89.99	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
219	UC	12	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	779	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	1754	DT	O3'-P-O5'	-9.34	90.00	104.00
11	AB	2278	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	2532	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	3683	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	5111	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	5760	DT	O3'-P-O5'	-9.34	89.99	104.00
107	J6	11	DT	O3'-P-O5'	-9.34	90.00	104.00
11	AB	315	DT	O3'-P-O5'	-9.34	90.00	104.00
11	AB	765	DT	O3'-P-O5'	-9.34	90.00	104.00
11	AB	2753	DT	O3'-P-O5'	-9.34	90.00	104.00
11	AB	3405	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	5971	DT	O3'-P-O5'	-9.34	90.00	104.00
54	E8	25	DT	O3'-P-O5'	-9.34	89.99	104.00
11	AB	6285	DT	O3'-P-O5'	-9.34	90.00	104.00
34	CA	16	DT	O3'-P-O5'	-9.34	90.00	104.00
55	E9	37	DT	O3'-P-O5'	-9.34	89.99	104.00
69	FD	36	DT	O3'-P-O5'	-9.34	89.99	104.00
177	Q3	21	DT	O3'-P-O5'	-9.34	89.99	104.00
179	Q7	20	DT	O3'-P-O5'	-9.34	89.99	104.00
182	QA	10	DT	O3'-P-O5'	-9.34	89.99	104.00
211	TD	16	DT	O3'-P-O5'	-9.34	90.00	104.00
46	DC	5	DT	O3'-P-O5'	-9.34	90.00	104.00
138	M5	31	DT	O3'-P-O5'	-9.34	90.00	104.00
178	Q5	27	DT	O3'-P-O5'	-9.34	90.00	104.00
11	AB	28	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	1112	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	2365	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	3894	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	4037	DT	O3'-P-O5'	-9.33	90.00	104.00
197	S7	9	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	344	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	1031	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	1286	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	1627	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	1633	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	1772	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	2138	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	2159	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	2309	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	3390	DT	O3'-P-O5'	-9.33	90.00	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5424	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	5685	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	6615	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	5571	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	6150	DT	O3'-P-O5'	-9.33	90.00	104.00
82	H2	37	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	6437	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	6519	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	6767	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	7108	DT	O3'-P-O5'	-9.33	90.00	104.00
232	W7	5	DT	O3'-P-O5'	-9.33	90.00	104.00
17	B4	10	DT	O3'-P-O5'	-9.33	90.00	104.00
134	LC	11	DT	O3'-P-O5'	-9.33	90.00	104.00
3	A3	22	DT	O3'-P-O5'	-9.33	90.01	104.00
11	AB	136	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	332	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	339	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	347	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	878	DT	O3'-P-O5'	-9.33	90.01	104.00
11	AB	881	DT	O3'-P-O5'	-9.33	90.01	104.00
11	AB	1103	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	4492	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	5118	DT	O3'-P-O5'	-9.33	90.00	104.00
74	G6	20	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	2291	DT	O3'-P-O5'	-9.33	90.01	104.00
11	AB	5027	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	5771	DT	O3'-P-O5'	-9.33	90.00	104.00
137	M3	16	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	5429	DT	O3'-P-O5'	-9.33	90.01	104.00
11	AB	5574	DT	O3'-P-O5'	-9.33	90.01	104.00
11	AB	5823	DT	O3'-P-O5'	-9.33	90.01	104.00
11	AB	5906	DT	O3'-P-O5'	-9.33	90.01	104.00
11	AB	5953	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	6513	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	7002	DT	O3'-P-O5'	-9.33	90.01	104.00
48	E1	20	DT	O3'-P-O5'	-9.33	90.00	104.00
94	I3	54	DT	O3'-P-O5'	-9.33	90.00	104.00
58	ED	18	DT	O3'-P-O5'	-9.33	90.01	104.00
109	J8	24	DT	O3'-P-O5'	-9.33	90.00	104.00
174	PC	13	DT	O3'-P-O5'	-9.33	90.00	104.00
11	AB	302	DT	O3'-P-O5'	-9.33	90.01	104.00
11	AB	800	DT	O3'-P-O5'	-9.33	90.01	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	899	DT	O3'-P-O5'	-9.33	90.01	104.00
11	AB	3386	DT	O3'-P-O5'	-9.33	90.01	104.00
11	AB	6462	DT	O3'-P-O5'	-9.33	90.01	104.00
11	AB	6772	DT	O3'-P-O5'	-9.33	90.01	104.00
11	AB	6779	DT	O3'-P-O5'	-9.33	90.01	104.00
11	AB	6929	DT	O3'-P-O5'	-9.33	90.01	104.00
11	AB	7122	DT	O3'-P-O5'	-9.33	90.01	104.00
11	AB	7150	DT	O3'-P-O5'	-9.33	90.01	104.00
95	I5	17	DT	O3'-P-O5'	-9.33	90.01	104.00
102	ID	1	DT	O3'-P-O5'	-9.33	90.01	104.00
119	K7	26	DT	O3'-P-O5'	-9.33	90.01	104.00
31	C7	18	DT	O3'-P-O5'	-9.33	90.01	104.00
120	K8	5	DT	O3'-P-O5'	-9.33	90.01	104.00
124	KD	22	DT	O3'-P-O5'	-9.33	90.01	104.00
148	N5	34	DT	O3'-P-O5'	-9.33	90.01	104.00
200	SA	10	DT	O3'-P-O5'	-9.33	90.01	104.00
6	A6	20	DT	O3'-P-O5'	-9.32	90.01	104.00
11	AB	2943	DT	O3'-P-O5'	-9.32	90.01	104.00
11	AB	4374	DT	O3'-P-O5'	-9.32	90.01	104.00
39	D3	1	DT	O3'-P-O5'	-9.32	90.01	104.00
11	AB	1440	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	1458	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	1590	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	3368	DT	O3'-P-O5'	-9.32	90.01	104.00
11	AB	3420	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	4410	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	4739	DT	O3'-P-O5'	-9.32	90.01	104.00
11	AB	5559	DT	O3'-P-O5'	-9.32	90.01	104.00
11	AB	5964	DT	O3'-P-O5'	-9.32	90.01	104.00
11	AB	6713	DT	O3'-P-O5'	-9.32	90.01	104.00
11	AB	6759	DT	O3'-P-O5'	-9.32	90.01	104.00
73	G5	23	DT	O3'-P-O5'	-9.32	90.01	104.00
11	AB	6984	DT	O3'-P-O5'	-9.32	90.02	104.00
31	C7	14	DT	O3'-P-O5'	-9.32	90.02	104.00
99	I9	19	DT	O3'-P-O5'	-9.32	90.01	104.00
113	JD	29	DT	O3'-P-O5'	-9.32	90.02	104.00
117	K5	31	DT	O3'-P-O5'	-9.32	90.01	104.00
149	N6	25	DT	O3'-P-O5'	-9.32	90.02	104.00
174	PC	9	DT	O3'-P-O5'	-9.32	90.01	104.00
188	R7	4	DT	O3'-P-O5'	-9.32	90.01	104.00
11	AB	122	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	905	DT	O3'-P-O5'	-9.32	90.02	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	983	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	5182	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	5844	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	5847	DT	O3'-P-O5'	-9.32	90.02	104.00
56	EA	11	DT	O3'-P-O5'	-9.32	90.02	104.00
96	I6	2	DT	O3'-P-O5'	-9.32	90.02	104.00
109	J8	48	DT	O3'-P-O5'	-9.32	90.02	104.00
178	Q5	23	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	1280	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	1603	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	2760	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	3234	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	3242	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	3651	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	6021	DT	O3'-P-O5'	-9.32	90.02	104.00
97	I7	29	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	6459	DT	O3'-P-O5'	-9.32	90.02	104.00
22	B9	44	DT	O3'-P-O5'	-9.32	90.02	104.00
88	H9	13	DT	O3'-P-O5'	-9.32	90.02	104.00
93	I2	37	DT	O3'-P-O5'	-9.32	90.02	104.00
109	J8	39	DT	O3'-P-O5'	-9.32	90.02	104.00
117	K5	26	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	309	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	13	DT	O3'-P-O5'	-9.32	90.03	104.00
11	AB	24	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	92	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	911	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	920	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	1263	DT	O3'-P-O5'	-9.32	90.03	104.00
11	AB	1588	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	3887	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	4495	DT	O3'-P-O5'	-9.32	90.02	104.00
85	H6	25	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	3738	DT	O3'-P-O5'	-9.32	90.03	104.00
11	AB	4648	DT	O3'-P-O5'	-9.32	90.03	104.00
11	AB	5755	DT	O3'-P-O5'	-9.32	90.03	104.00
11	AB	6119	DT	O3'-P-O5'	-9.32	90.03	104.00
11	AB	6140	DT	O3'-P-O5'	-9.32	90.02	104.00
11	AB	6384	DT	O3'-P-O5'	-9.32	90.03	104.00
206	T7	4	DT	O3'-P-O5'	-9.32	90.02	104.00
234	W9	11	DT	O3'-P-O5'	-9.32	90.03	104.00
11	AB	1216	DT	O3'-P-O5'	-9.31	90.03	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2234	DT	O3'-P-O5'	-9.31	90.03	104.00
11	AB	6114	DT	O3'-P-O5'	-9.31	90.03	104.00
11	AB	6222	DT	O3'-P-O5'	-9.31	90.03	104.00
11	AB	6290	DT	O3'-P-O5'	-9.31	90.03	104.00
94	I3	42	DT	O3'-P-O5'	-9.31	90.03	104.00
11	AB	6210	DT	O3'-P-O5'	-9.31	90.03	104.00
11	AB	6453	DT	O3'-P-O5'	-9.31	90.03	104.00
11	AB	7176	DT	O3'-P-O5'	-9.31	90.03	104.00
28	C3	12	DT	O3'-P-O5'	-9.31	90.03	104.00
83	H3	18	DT	O3'-P-O5'	-9.31	90.03	104.00
165	OD	31	DT	O3'-P-O5'	-9.31	90.03	104.00
165	OD	34	DT	O3'-P-O5'	-9.31	90.03	104.00
189	R8	26	DT	O3'-P-O5'	-9.31	90.03	104.00
207	T8	6	DT	O3'-P-O5'	-9.31	90.03	104.00
212	U2	9	DT	O3'-P-O5'	-9.31	90.03	104.00
11	AB	151	DT	O3'-P-O5'	-9.31	90.03	104.00
11	AB	1082	DT	O3'-P-O5'	-9.31	90.03	104.00
11	AB	1337	DT	O3'-P-O5'	-9.31	90.03	104.00
11	AB	2642	DT	O3'-P-O5'	-9.31	90.03	104.00
11	AB	3104	DT	O3'-P-O5'	-9.31	90.03	104.00
11	AB	4900	DT	O3'-P-O5'	-9.31	90.03	104.00
11	AB	5060	DT	O3'-P-O5'	-9.31	90.03	104.00
11	AB	6841	DT	O3'-P-O5'	-9.31	90.03	104.00
125	L1	24	DT	O3'-P-O5'	-9.31	90.03	104.00
11	AB	5420	DT	O3'-P-O5'	-9.31	90.03	104.00
47	DD	28	DT	O3'-P-O5'	-9.31	90.03	104.00
68	FC	4	DT	O3'-P-O5'	-9.31	90.03	104.00
187	R5	24	DT	O3'-P-O5'	-9.31	90.03	104.00
9	A9	5	DT	O3'-P-O5'	-9.31	90.04	104.00
11	AB	1340	DT	O3'-P-O5'	-9.31	90.04	104.00
11	AB	1781	DT	O3'-P-O5'	-9.31	90.04	104.00
11	AB	3540	DT	O3'-P-O5'	-9.31	90.04	104.00
11	AB	5049	DT	O3'-P-O5'	-9.31	90.04	104.00
11	AB	6268	DT	O3'-P-O5'	-9.31	90.04	104.00
56	EA	14	DT	O3'-P-O5'	-9.31	90.04	104.00
75	G7	25	DT	O3'-P-O5'	-9.31	90.04	104.00
108	J7	52	DT	O3'-P-O5'	-9.31	90.04	104.00
11	AB	6904	DT	O3'-P-O5'	-9.31	90.04	104.00
126	L2	23	DT	O3'-P-O5'	-9.31	90.04	104.00
199	S9	17	DT	O3'-P-O5'	-9.31	90.04	104.00
11	AB	1346	DT	O3'-P-O5'	-9.31	90.04	104.00
11	AB	1364	DT	O3'-P-O5'	-9.31	90.04	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3096	DT	O3'-P-O5'	-9.30	90.04	104.00
11	AB	6542	DT	O3'-P-O5'	-9.31	90.04	104.00
107	J6	42	DT	O3'-P-O5'	-9.31	90.04	104.00
194	S2	28	DT	O3'-P-O5'	-9.31	90.04	104.00
195	S3	4	DT	O3'-P-O5'	-9.30	90.04	104.00
11	AB	222	DT	O3'-P-O5'	-9.30	90.05	104.00
11	AB	1488	DT	O3'-P-O5'	-9.30	90.04	104.00
11	AB	17	DT	O3'-P-O5'	-9.30	90.05	104.00
11	AB	37	DT	O3'-P-O5'	-9.30	90.05	104.00
11	AB	1193	DT	O3'-P-O5'	-9.30	90.05	104.00
11	AB	1361	DT	O3'-P-O5'	-9.30	90.05	104.00
11	AB	1768	DT	O3'-P-O5'	-9.30	90.05	104.00
74	G6	34	DT	O3'-P-O5'	-9.30	90.05	104.00
84	H5	19	DT	O3'-P-O5'	-9.30	90.05	104.00
197	S7	22	DT	O3'-P-O5'	-9.30	90.05	104.00
11	AB	2549	DT	O3'-P-O5'	-9.30	90.05	104.00
11	AB	3360	DT	O3'-P-O5'	-9.30	90.05	104.00
11	AB	6627	DT	O3'-P-O5'	-9.30	90.05	104.00
174	PC	18	DT	O3'-P-O5'	-9.30	90.05	104.00
222	V3	9	DT	O3'-P-O5'	-9.30	90.05	104.00
11	AB	31	DT	O3'-P-O5'	-9.30	90.06	104.00
11	AB	1428	DT	O3'-P-O5'	-9.30	90.06	104.00
11	AB	4841	DT	O3'-P-O5'	-9.30	90.06	104.00
82	H2	46	DT	O3'-P-O5'	-9.30	90.06	104.00
11	AB	1787	DT	O3'-P-O5'	-9.29	90.06	104.00
11	AB	2043	DT	O3'-P-O5'	-9.29	90.06	104.00
11	AB	3546	DT	O3'-P-O5'	-9.29	90.06	104.00
11	AB	4306	DT	O3'-P-O5'	-9.29	90.06	104.00
33	C9	8	DT	O3'-P-O5'	-9.29	90.06	104.00
161	O8	22	DT	O3'-P-O5'	-9.30	90.06	104.00
129	L6	5	DT	O3'-P-O5'	-9.29	90.06	104.00
11	AB	2850	DT	O3'-P-O5'	-9.29	90.06	104.00
11	AB	5364	DT	O3'-P-O5'	-9.29	90.06	104.00
11	AB	5976	DT	O3'-P-O5'	-9.29	90.07	104.00
11	AB	3870	DT	O3'-P-O5'	-9.28	90.08	104.00
161	O8	5	DT	O3'-P-O5'	-9.28	90.08	104.00
11	AB	2931	DT	O3'-P-O5'	-9.27	90.09	104.00
11	AB	6716	DT	O3'-P-O5'	-9.25	90.12	104.00
11	AB	6991	DT	O3'-P-O5'	-9.24	90.14	104.00
11	AB	2765	DT	O3'-P-O5'	-9.23	90.16	104.00
11	AB	2882	DT	O3'-P-O5'	-9.23	90.16	104.00
109	J8	44	DG	P-O3'-C3'	-8.82	106.97	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	AC	20	DG	P-O3'-C3'	-8.82	106.97	120.20
109	J8	29	DG	P-O3'-C3'	-8.81	106.98	120.20
11	AB	582	DG	P-O3'-C3'	-8.81	106.98	120.20
165	OD	11	DG	P-O3'-C3'	-8.81	106.98	120.20
11	AB	1936	DG	P-O3'-C3'	-8.81	106.99	120.20
11	AB	3130	DG	P-O3'-C3'	-8.81	106.99	120.20
127	L3	15	DG	P-O3'-C3'	-8.81	106.99	120.20
137	M3	17	DG	P-O3'-C3'	-8.81	106.99	120.20
11	AB	1907	DG	P-O3'-C3'	-8.80	106.99	120.20
11	AB	6229	DG	P-O3'-C3'	-8.81	106.99	120.20
11	AB	303	DG	P-O3'-C3'	-8.80	107.00	120.20
47	DD	25	DG	P-O3'-C3'	-8.80	106.99	120.20
141	M8	15	DG	P-O3'-C3'	-8.80	106.99	120.20
11	AB	1016	DG	P-O3'-C3'	-8.80	107.00	120.20
34	CA	11	DG	P-O3'-C3'	-8.80	107.00	120.20
11	AB	2267	DG	P-O3'-C3'	-8.80	107.00	120.20
22	B9	45	DG	P-O3'-C3'	-8.80	107.00	120.20
28	C3	24	DG	P-O3'-C3'	-8.80	107.00	120.20
152	N9	43	DG	P-O3'-C3'	-8.80	107.00	120.20
216	U8	14	DG	P-O3'-C3'	-8.80	107.00	120.20
11	AB	3334	DG	P-O3'-C3'	-8.80	107.00	120.20
11	AB	4358	DG	P-O3'-C3'	-8.80	107.00	120.20
11	AB	3684	DG	P-O3'-C3'	-8.80	107.00	120.20
11	AB	3863	DG	P-O3'-C3'	-8.80	107.00	120.20
24	BC	12	DG	P-O3'-C3'	-8.80	107.00	120.20
25	BD	7	DG	P-O3'-C3'	-8.80	107.00	120.20
30	C6	41	DG	P-O3'-C3'	-8.80	107.00	120.20
74	G6	7	DG	P-O3'-C3'	-8.80	107.00	120.20
109	J8	49	DG	P-O3'-C3'	-8.80	107.00	120.20
234	W9	12	DG	P-O3'-C3'	-8.80	107.00	120.20
148	N5	30	DG	P-O3'-C3'	-8.80	107.00	120.20
223	V5	7	DG	P-O3'-C3'	-8.80	107.00	120.20
11	AB	5973	DG	P-O3'-C3'	-8.80	107.01	120.20
23	BA	10	DG	P-O3'-C3'	-8.80	107.01	120.20
11	AB	2483	DG	P-O3'-C3'	-8.79	107.01	120.20
42	D7	15	DG	P-O3'-C3'	-8.79	107.01	120.20
52	E6	4	DG	P-O3'-C3'	-8.79	107.01	120.20
111	JA	4	DG	P-O3'-C3'	-8.79	107.01	120.20
165	OD	35	DG	P-O3'-C3'	-8.79	107.01	120.20
179	Q7	7	DG	P-O3'-C3'	-8.80	107.01	120.20
189	R8	31	DG	P-O3'-C3'	-8.80	107.01	120.20
11	AB	3487	DG	P-O3'-C3'	-8.79	107.01	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4778	DG	P-O3'-C3'	-8.79	107.01	120.20
11	AB	5054	DG	P-O3'-C3'	-8.79	107.01	120.20
116	K3	16	DG	P-O3'-C3'	-8.79	107.01	120.20
148	N5	5	DG	P-O3'-C3'	-8.79	107.01	120.20
11	AB	6800	DG	P-O3'-C3'	-8.79	107.01	120.20
11	AB	6810	DG	P-O3'-C3'	-8.79	107.01	120.20
182	QA	18	DG	P-O3'-C3'	-8.79	107.01	120.20
230	W3	48	DG	P-O3'-C3'	-8.79	107.01	120.20
3	A3	14	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	216	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	2510	DG	P-O3'-C3'	-8.79	107.02	120.20
150	N7	20	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	789	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	807	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	2941	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	4233	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	4431	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	4961	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	6310	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	6813	DG	P-O3'-C3'	-8.79	107.02	120.20
89	HA	20	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	6170	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	7199	DG	P-O3'-C3'	-8.79	107.02	120.20
44	D9	24	DG	P-O3'-C3'	-8.79	107.02	120.20
82	H2	30	DG	P-O3'-C3'	-8.79	107.02	120.20
91	HD	15	DG	P-O3'-C3'	-8.79	107.02	120.20
150	N7	6	DG	P-O3'-C3'	-8.79	107.02	120.20
159	O6	20	DG	P-O3'-C3'	-8.79	107.02	120.20
7	A7	8	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	3796	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	5949	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	6318	DG	P-O3'-C3'	-8.79	107.02	120.20
162	O9	5	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	2091	DG	P-O3'-C3'	-8.78	107.02	120.20
11	AB	2337	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	5806	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	6454	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	6628	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	6750	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	6768	DG	P-O3'-C3'	-8.79	107.02	120.20
16	B3	6	DG	P-O3'-C3'	-8.79	107.02	120.20
33	C9	6	DG	P-O3'-C3'	-8.79	107.02	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	DD	34	DG	P-O3'-C3'	-8.79	107.02	120.20
178	Q5	39	DG	P-O3'-C3'	-8.79	107.02	120.20
93	I2	22	DG	P-O3'-C3'	-8.78	107.02	120.20
138	M5	6	DG	P-O3'-C3'	-8.78	107.02	120.20
157	O3	12	DG	P-O3'-C3'	-8.78	107.02	120.20
229	VD	8	DG	P-O3'-C3'	-8.78	107.02	120.20
236	X5	9	DG	P-O3'-C3'	-8.79	107.02	120.20
11	AB	348	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	4832	DG	P-O3'-C3'	-8.78	107.03	120.20
90	HC	21	DG	P-O3'-C3'	-8.78	107.03	120.20
122	KA	33	DG	P-O3'-C3'	-8.78	107.03	120.20
124	KD	19	DG	P-O3'-C3'	-8.78	107.03	120.20
155	ND	7	DG	P-O3'-C3'	-8.78	107.03	120.20
156	O2	40	DG	P-O3'-C3'	-8.78	107.03	120.20
232	W7	6	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	1299	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	1531	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	3399	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	4009	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	4336	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	4645	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	4823	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	5399	DG	P-O3'-C3'	-8.78	107.03	120.20
43	D8	40	DG	P-O3'-C3'	-8.78	107.03	120.20
67	FA	1	DG	P-O3'-C3'	-8.78	107.03	120.20
102	ID	24	DG	P-O3'-C3'	-8.78	107.03	120.20
137	M3	34	DG	P-O3'-C3'	-8.78	107.03	120.20
151	N8	2	DG	P-O3'-C3'	-8.78	107.03	120.20
161	O8	51	DG	P-O3'-C3'	-8.78	107.03	120.20
198	S8	29	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	273	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	906	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	2031	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	2754	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	2793	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	3376	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	6595	DG	P-O3'-C3'	-8.78	107.03	120.20
29	C5	35	DG	P-O3'-C3'	-8.78	107.03	120.20
32	C8	37	DG	P-O3'-C3'	-8.78	107.03	120.20
174	PC	14	DG	P-O3'-C3'	-8.78	107.03	120.20
212	U2	13	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	1757	DG	P-O3'-C3'	-8.78	107.03	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2067	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	4018	DG	P-O3'-C3'	-8.78	107.03	120.20
87	H8	19	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	4558	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	4837	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	5042	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	5116	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	5493	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	6514	DG	P-O3'-C3'	-8.78	107.03	120.20
15	B2	16	DG	P-O3'-C3'	-8.78	107.03	120.20
41	D6	9	DG	P-O3'-C3'	-8.78	107.03	120.20
92	I1	15	DG	P-O3'-C3'	-8.78	107.03	120.20
106	J5	34	DG	P-O3'-C3'	-8.78	107.03	120.20
107	J6	15	DG	P-O3'-C3'	-8.78	107.03	120.20
119	K7	9	DG	P-O3'-C3'	-8.78	107.03	120.20
114	K1	26	DG	P-O3'-C3'	-8.78	107.03	120.20
150	N7	3	DG	P-O3'-C3'	-8.78	107.03	120.20
169	P6	7	DG	P-O3'-C3'	-8.78	107.03	120.20
177	Q3	22	DG	P-O3'-C3'	-8.78	107.03	120.20
185	R2	8	DG	P-O3'-C3'	-8.78	107.03	120.20
188	R7	5	DG	P-O3'-C3'	-8.78	107.03	120.20
206	T7	15	DG	P-O3'-C3'	-8.78	107.03	120.20
206	T7	36	DG	P-O3'-C3'	-8.78	107.03	120.20
236	X5	19	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	1200	DG	P-O3'-C3'	-8.78	107.03	120.20
2	A2	7	DG	P-O3'-C3'	-8.78	107.04	120.20
6	A6	21	DG	P-O3'-C3'	-8.78	107.04	120.20
9	A9	10	DG	P-O3'-C3'	-8.78	107.04	120.20
11	AB	1050	DG	P-O3'-C3'	-8.78	107.04	120.20
11	AB	2160	DG	P-O3'-C3'	-8.78	107.04	120.20
11	AB	3100	DG	P-O3'-C3'	-8.78	107.04	120.20
11	AB	3896	DG	P-O3'-C3'	-8.78	107.04	120.20
11	AB	4964	DG	P-O3'-C3'	-8.78	107.04	120.20
11	AB	5129	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	5421	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	5572	DG	P-O3'-C3'	-8.78	107.03	120.20
67	FA	32	DG	P-O3'-C3'	-8.78	107.03	120.20
85	H6	29	DG	P-O3'-C3'	-8.78	107.03	120.20
123	KC	23	DG	P-O3'-C3'	-8.78	107.03	120.20
224	V7	21	DG	P-O3'-C3'	-8.78	107.03	120.20
11	AB	5987	DG	P-O3'-C3'	-8.78	107.04	120.20
11	AB	6543	DG	P-O3'-C3'	-8.78	107.04	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6969	DG	P-O3'-C3'	-8.78	107.04	120.20
17	B4	16	DG	P-O3'-C3'	-8.78	107.04	120.20
49	E2	32	DG	P-O3'-C3'	-8.78	107.04	120.20
51	E5	28	DG	P-O3'-C3'	-8.78	107.04	120.20
95	I5	18	DG	P-O3'-C3'	-8.78	107.04	120.20
105	J3	33	DG	P-O3'-C3'	-8.78	107.03	120.20
108	J7	8	DG	P-O3'-C3'	-8.78	107.03	120.20
113	JD	5	DG	P-O3'-C3'	-8.78	107.03	120.20
119	K7	22	DG	P-O3'-C3'	-8.78	107.03	120.20
153	NA	22	DG	P-O3'-C3'	-8.78	107.04	120.20
199	S9	22	DG	P-O3'-C3'	-8.78	107.04	120.20
234	W9	16	DG	P-O3'-C3'	-8.78	107.04	120.20
11	AB	101	DG	P-O3'-C3'	-8.77	107.04	120.20
11	AB	5304	DG	P-O3'-C3'	-8.77	107.04	120.20
11	AB	5325	DG	P-O3'-C3'	-8.77	107.04	120.20
11	AB	2868	DG	P-O3'-C3'	-8.77	107.04	120.20
11	AB	3066	DG	P-O3'-C3'	-8.77	107.04	120.20
11	AB	3088	DG	P-O3'-C3'	-8.77	107.04	120.20
11	AB	4663	DG	P-O3'-C3'	-8.77	107.04	120.20
11	AB	5194	DG	P-O3'-C3'	-8.77	107.04	120.20
11	AB	5899	DG	P-O3'-C3'	-8.77	107.04	120.20
11	AB	6124	DG	P-O3'-C3'	-8.77	107.04	120.20
11	AB	6286	DG	P-O3'-C3'	-8.77	107.04	120.20
11	AB	6445	DG	P-O3'-C3'	-8.77	107.04	120.20
33	C9	9	DG	P-O3'-C3'	-8.77	107.04	120.20
71	G2	10	DG	P-O3'-C3'	-8.77	107.04	120.20
154	NC	6	DG	P-O3'-C3'	-8.77	107.04	120.20
11	AB	7202	DG	P-O3'-C3'	-8.77	107.04	120.20
28	C3	21	DG	P-O3'-C3'	-8.77	107.04	120.20
32	C8	53	DG	P-O3'-C3'	-8.77	107.04	120.20
46	DC	6	DG	P-O3'-C3'	-8.77	107.04	120.20
52	E6	28	DG	P-O3'-C3'	-8.77	107.04	120.20
88	H9	23	DG	P-O3'-C3'	-8.77	107.04	120.20
95	I5	12	DG	P-O3'-C3'	-8.77	107.04	120.20
114	K1	31	DG	P-O3'-C3'	-8.77	107.04	120.20
131	L8	11	DG	P-O3'-C3'	-8.77	107.04	120.20
185	R2	5	DG	P-O3'-C3'	-8.77	107.04	120.20
187	R5	37	DG	P-O3'-C3'	-8.77	107.04	120.20
200	SA	8	DG	P-O3'-C3'	-8.77	107.04	120.20
201	SC	12	DG	P-O3'-C3'	-8.77	107.04	120.20
57	EC	21	DG	P-O3'-C3'	-8.77	107.04	120.20
83	H3	19	DG	P-O3'-C3'	-8.77	107.04	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
86	H7	14	DG	P-O3'-C3'	-8.77	107.04	120.20
107	J6	12	DG	P-O3'-C3'	-8.77	107.04	120.20
142	M9	1	DG	P-O3'-C3'	-8.77	107.04	120.20
145	MD	53	DG	P-O3'-C3'	-8.77	107.04	120.20
185	R2	20	DG	P-O3'-C3'	-8.77	107.04	120.20
196	S5	9	DG	P-O3'-C3'	-8.77	107.04	120.20
213	U3	1	DG	P-O3'-C3'	-8.77	107.04	120.20
6	A6	6	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	405	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	1317	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	1829	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	2001	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	2084	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	2643	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	3230	DG	P-O3'-C3'	-8.77	107.04	120.20
11	AB	3289	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	5005	DG	P-O3'-C3'	-8.77	107.04	120.20
11	AB	5231	DG	P-O3'-C3'	-8.77	107.05	120.20
18	B5	15	DG	P-O3'-C3'	-8.77	107.05	120.20
19	B6	15	DG	P-O3'-C3'	-8.77	107.05	120.20
22	B9	53	DG	P-O3'-C3'	-8.77	107.05	120.20
49	E2	28	DG	P-O3'-C3'	-8.77	107.05	120.20
61	F3	17	DG	P-O3'-C3'	-8.77	107.05	120.20
152	N9	47	DG	P-O3'-C3'	-8.77	107.05	120.20
66	F9	5	DG	P-O3'-C3'	-8.77	107.05	120.20
76	G8	12	DG	P-O3'-C3'	-8.77	107.05	120.20
86	H7	11	DG	P-O3'-C3'	-8.77	107.05	120.20
95	I5	30	DG	P-O3'-C3'	-8.77	107.05	120.20
108	J7	5	DG	P-O3'-C3'	-8.77	107.05	120.20
113	JD	26	DG	P-O3'-C3'	-8.77	107.05	120.20
116	K3	6	DG	P-O3'-C3'	-8.77	107.05	120.20
137	M3	5	DG	P-O3'-C3'	-8.77	107.05	120.20
137	M3	13	DG	P-O3'-C3'	-8.77	107.05	120.20
157	O3	1	DG	P-O3'-C3'	-8.77	107.05	120.20
165	OD	51	DG	P-O3'-C3'	-8.77	107.04	120.20
180	Q8	24	DG	P-O3'-C3'	-8.77	107.05	120.20
194	S2	5	DG	P-O3'-C3'	-8.77	107.05	120.20
219	UC	13	DG	P-O3'-C3'	-8.77	107.05	120.20
230	W3	39	DG	P-O3'-C3'	-8.77	107.05	120.20
5	A5	9	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	3421	DG	P-O3'-C3'	-8.77	107.05	120.20
40	D5	19	DG	P-O3'-C3'	-8.77	107.05	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
93	I2	41	DG	P-O3'-C3'	-8.77	107.05	120.20
7	A7	11	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	70	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	82	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	152	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	270	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	474	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	579	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	628	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	1032	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	3691	DG	P-O3'-C3'	-8.77	107.05	120.20
67	FA	3	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	1083	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	1875	DG	P-O3'-C3'	-8.77	107.05	120.20
89	HA	28	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	2489	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	2540	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	2622	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	3946	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	4789	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	5072	DG	P-O3'-C3'	-8.77	107.05	120.20
28	C3	15	DG	P-O3'-C3'	-8.77	107.05	120.20
49	E2	40	DG	P-O3'-C3'	-8.77	107.05	120.20
60	F2	27	DG	P-O3'-C3'	-8.77	107.05	120.20
91	HD	22	DG	P-O3'-C3'	-8.77	107.05	120.20
122	KA	44	DG	P-O3'-C3'	-8.77	107.05	120.20
102	ID	17	DG	P-O3'-C3'	-8.77	107.05	120.20
104	J2	13	DG	P-O3'-C3'	-8.77	107.05	120.20
114	K1	44	DG	P-O3'-C3'	-8.77	107.05	120.20
119	K7	35	DG	P-O3'-C3'	-8.77	107.05	120.20
134	LC	12	DG	P-O3'-C3'	-8.77	107.05	120.20
138	M5	16	DG	P-O3'-C3'	-8.77	107.05	120.20
165	OD	32	DG	P-O3'-C3'	-8.77	107.05	120.20
139	M6	13	DG	P-O3'-C3'	-8.77	107.05	120.20
145	MD	55	DG	P-O3'-C3'	-8.77	107.05	120.20
160	O7	36	DG	P-O3'-C3'	-8.77	107.05	120.20
197	S7	23	DG	P-O3'-C3'	-8.77	107.05	120.20
202	SD	10	DG	P-O3'-C3'	-8.77	107.05	120.20
203	T2	26	DG	P-O3'-C3'	-8.77	107.05	120.20
209	TA	9	DG	P-O3'-C3'	-8.77	107.05	120.20
222	V3	12	DG	P-O3'-C3'	-8.77	107.05	120.20
11	AB	936	DG	P-O3'-C3'	-8.76	107.06	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	42	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	22	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	138	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	978	DG	P-O3'-C3'	-8.76	107.05	120.20
11	AB	1029	DG	P-O3'-C3'	-8.76	107.05	120.20
11	AB	1416	DG	P-O3'-C3'	-8.76	107.05	120.20
11	AB	3220	DG	P-O3'-C3'	-8.76	107.05	120.20
11	AB	1989	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	2077	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	3325	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	5425	DG	P-O3'-C3'	-8.76	107.05	120.20
11	AB	3544	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	4307	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	5012	DG	P-O3'-C3'	-8.76	107.05	120.20
11	AB	5200	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	5262	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	5441	DG	P-O3'-C3'	-8.76	107.06	120.20
29	C5	10	DG	P-O3'-C3'	-8.76	107.05	120.20
11	AB	6250	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	6262	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	6616	DG	P-O3'-C3'	-8.76	107.05	120.20
43	D8	5	DG	P-O3'-C3'	-8.76	107.05	120.20
11	AB	6780	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	6949	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	7028	DG	P-O3'-C3'	-8.76	107.06	120.20
89	HA	25	DG	P-O3'-C3'	-8.76	107.05	120.20
126	L2	48	DG	P-O3'-C3'	-8.76	107.05	120.20
231	W5	24	DG	P-O3'-C3'	-8.76	107.05	120.20
238	X9	20	DG	P-O3'-C3'	-8.76	107.05	120.20
22	B9	22	DG	P-O3'-C3'	-8.76	107.06	120.20
41	D6	1	DG	P-O3'-C3'	-8.76	107.06	120.20
94	I3	29	DG	P-O3'-C3'	-8.76	107.06	120.20
97	I7	8	DG	P-O3'-C3'	-8.76	107.06	120.20
111	JA	6	DG	P-O3'-C3'	-8.76	107.06	120.20
125	L1	2	DG	P-O3'-C3'	-8.76	107.06	120.20
152	N9	29	DG	P-O3'-C3'	-8.76	107.06	120.20
125	L1	10	DG	P-O3'-C3'	-8.76	107.06	120.20
129	L6	25	DG	P-O3'-C3'	-8.76	107.06	120.20
130	L7	56	DG	P-O3'-C3'	-8.76	107.06	120.20
187	R5	21	DG	P-O3'-C3'	-8.76	107.06	120.20
214	U5	27	DG	P-O3'-C3'	-8.76	107.05	120.20
11	AB	399	DG	P-O3'-C3'	-8.76	107.06	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	746	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	921	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	6177	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	972	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	1836	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	2887	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	3753	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	3814	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	3925	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	4755	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	5087	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	5488	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	6115	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	6208	DG	P-O3'-C3'	-8.76	107.06	120.20
17	B4	14	DG	P-O3'-C3'	-8.76	107.06	120.20
18	B5	13	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	6304	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	6328	DG	P-O3'-C3'	-8.76	107.06	120.20
23	BA	30	DG	P-O3'-C3'	-8.76	107.06	120.20
29	C5	33	DG	P-O3'-C3'	-8.76	107.06	120.20
30	C6	33	DG	P-O3'-C3'	-8.76	107.06	120.20
32	C8	15	DG	P-O3'-C3'	-8.76	107.06	120.20
35	CC	22	DG	P-O3'-C3'	-8.76	107.06	120.20
61	F3	23	DG	P-O3'-C3'	-8.76	107.06	120.20
94	I3	33	DG	P-O3'-C3'	-8.76	107.06	120.20
108	J7	53	DG	P-O3'-C3'	-8.76	107.06	120.20
126	L2	36	DG	P-O3'-C3'	-8.76	107.06	120.20
130	L7	1	DG	P-O3'-C3'	-8.76	107.06	120.20
190	R9	8	DG	P-O3'-C3'	-8.76	107.06	120.20
130	L7	6	DG	P-O3'-C3'	-8.76	107.06	120.20
130	L7	34	DG	P-O3'-C3'	-8.76	107.06	120.20
147	N3	2	DG	P-O3'-C3'	-8.76	107.06	120.20
165	OD	22	DG	P-O3'-C3'	-8.76	107.06	120.20
173	PA	4	DG	P-O3'-C3'	-8.76	107.06	120.20
182	QA	2	DG	P-O3'-C3'	-8.76	107.06	120.20
183	QC	11	DG	P-O3'-C3'	-8.76	107.06	120.20
183	QC	19	DG	P-O3'-C3'	-8.76	107.06	120.20
187	R5	27	DG	P-O3'-C3'	-8.76	107.06	120.20
190	R9	13	DG	P-O3'-C3'	-8.76	107.06	120.20
194	S2	18	DG	P-O3'-C3'	-8.76	107.06	120.20
199	S9	18	DG	P-O3'-C3'	-8.76	107.06	120.20
209	TA	31	DG	P-O3'-C3'	-8.76	107.06	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
228	VC	33	DG	P-O3'-C3'	-8.76	107.06	120.20
225	V8	11	DG	P-O3'-C3'	-8.76	107.06	120.20
230	W3	19	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	989	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	1155	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	2718	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	4422	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	4748	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	5249	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	6151	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	6346	DG	P-O3'-C3'	-8.76	107.06	120.20
21	B8	16	DG	P-O3'-C3'	-8.76	107.06	120.20
30	C6	37	DG	P-O3'-C3'	-8.76	107.06	120.20
48	E1	5	DG	P-O3'-C3'	-8.76	107.06	120.20
156	O2	19	DG	P-O3'-C3'	-8.76	107.06	120.20
206	T7	34	DG	P-O3'-C3'	-8.76	107.06	120.20
228	VC	24	DG	P-O3'-C3'	-8.76	107.06	120.20
11	AB	1020	DG	P-O3'-C3'	-8.76	107.07	120.20
11	AB	1808	DG	P-O3'-C3'	-8.76	107.07	120.20
11	AB	2974	DG	P-O3'-C3'	-8.76	107.07	120.20
11	AB	3387	DG	P-O3'-C3'	-8.76	107.07	120.20
11	AB	5455	DG	P-O3'-C3'	-8.76	107.07	120.20
11	AB	5656	DG	P-O3'-C3'	-8.76	107.06	120.20
45	DA	22	DG	P-O3'-C3'	-8.76	107.06	120.20
87	H8	21	DG	P-O3'-C3'	-8.76	107.06	120.20
110	J9	10	DG	P-O3'-C3'	-8.76	107.06	120.20
14	B1	9	DG	P-O3'-C3'	-8.76	107.07	120.20
27	C2	9	DG	P-O3'-C3'	-8.76	107.07	120.20
36	CD	3	DG	P-O3'-C3'	-8.76	107.06	120.20
39	D3	20	DG	P-O3'-C3'	-8.76	107.07	120.20
70	G1	8	DG	P-O3'-C3'	-8.76	107.07	120.20
79	GC	5	DG	P-O3'-C3'	-8.76	107.06	120.20
94	I3	50	DG	P-O3'-C3'	-8.76	107.06	120.20
115	K2	27	DG	P-O3'-C3'	-8.76	107.06	120.20
126	L2	51	DG	P-O3'-C3'	-8.76	107.06	120.20
169	P6	16	DG	P-O3'-C3'	-8.76	107.06	120.20
206	T7	55	DG	P-O3'-C3'	-8.76	107.06	120.20
74	G6	5	DG	P-O3'-C3'	-8.76	107.07	120.20
81	H1	14	DG	P-O3'-C3'	-8.76	107.07	120.20
82	H2	14	DG	P-O3'-C3'	-8.76	107.06	120.20
93	I2	19	DG	P-O3'-C3'	-8.76	107.07	120.20
104	J2	16	DG	P-O3'-C3'	-8.76	107.07	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
125	L1	50	DG	P-O3'-C3'	-8.76	107.06	120.20
126	L2	24	DG	P-O3'-C3'	-8.76	107.06	120.20
211	TD	23	DG	P-O3'-C3'	-8.76	107.06	120.20
226	V9	28	DG	P-O3'-C3'	-8.76	107.06	120.20
130	L7	38	DG	P-O3'-C3'	-8.76	107.07	120.20
161	O8	28	DG	P-O3'-C3'	-8.76	107.07	120.20
181	Q9	2	DG	P-O3'-C3'	-8.76	107.07	120.20
181	Q9	20	DG	P-O3'-C3'	-8.76	107.07	120.20
195	S3	26	DG	P-O3'-C3'	-8.76	107.07	120.20
216	U8	11	DG	P-O3'-C3'	-8.76	107.07	120.20
235	WD	5	DG	P-O3'-C3'	-8.76	107.07	120.20
10	AA	21	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	435	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	1721	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	1962	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	243	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	522	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	2124	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	2486	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	3822	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	3844	DG	P-O3'-C3'	-8.75	107.07	120.20
58	ED	32	DG	P-O3'-C3'	-8.75	107.07	120.20
99	I9	27	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	2409	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	3238	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	3723	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	4021	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	4114	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	4795	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	4280	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	4520	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	4801	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	5273	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	5840	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	6931	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	6966	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	7025	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	7243	DG	P-O3'-C3'	-8.75	107.07	120.20
22	B9	50	DG	P-O3'-C3'	-8.75	107.07	120.20
24	BC	6	DG	P-O3'-C3'	-8.75	107.07	120.20
59	F1	2	DG	P-O3'-C3'	-8.75	107.07	120.20
76	G8	20	DG	P-O3'-C3'	-8.75	107.07	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
81	H1	6	DG	P-O3'-C3'	-8.75	107.07	120.20
83	H3	30	DG	P-O3'-C3'	-8.75	107.07	120.20
85	H6	5	DG	P-O3'-C3'	-8.75	107.07	120.20
147	N3	7	DG	P-O3'-C3'	-8.75	107.07	120.20
95	I5	38	DG	P-O3'-C3'	-8.75	107.07	120.20
128	L5	16	DG	P-O3'-C3'	-8.75	107.07	120.20
154	NC	4	DG	P-O3'-C3'	-8.75	107.07	120.20
168	P5	7	DG	P-O3'-C3'	-8.75	107.07	120.20
230	W3	9	DG	P-O3'-C3'	-8.75	107.07	120.20
233	W8	21	DG	P-O3'-C3'	-8.75	107.07	120.20
198	S8	27	DG	P-O3'-C3'	-8.75	107.07	120.20
3	A3	20	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	207	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	1751	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	2073	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	4976	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	7247	DG	P-O3'-C3'	-8.75	107.07	120.20
144	MC	1	DG	P-O3'-C3'	-8.75	107.07	120.20
191	RA	15	DG	P-O3'-C3'	-8.75	107.07	120.20
2	A2	23	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	420	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	450	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	1311	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	2145	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	5474	DG	P-O3'-C3'	-8.75	107.07	120.20
29	C5	3	DG	P-O3'-C3'	-8.75	107.07	120.20
47	DD	15	DG	P-O3'-C3'	-8.75	107.07	120.20
199	S9	3	DG	P-O3'-C3'	-8.75	107.07	120.20
11	AB	2187	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	4611	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	6540	DG	P-O3'-C3'	-8.75	107.08	120.20
32	C8	19	DG	P-O3'-C3'	-8.75	107.08	120.20
55	E9	13	DG	P-O3'-C3'	-8.75	107.07	120.20
37	D1	15	DG	P-O3'-C3'	-8.75	107.08	120.20
40	D5	6	DG	P-O3'-C3'	-8.75	107.08	120.20
56	EA	8	DG	P-O3'-C3'	-8.75	107.08	120.20
58	ED	19	DG	P-O3'-C3'	-8.75	107.07	120.20
60	F2	20	DG	P-O3'-C3'	-8.75	107.07	120.20
77	G9	8	DG	P-O3'-C3'	-8.75	107.08	120.20
90	HC	25	DG	P-O3'-C3'	-8.75	107.08	120.20
104	J2	1	DG	P-O3'-C3'	-8.75	107.08	120.20
105	J3	9	DG	P-O3'-C3'	-8.75	107.07	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
119	K7	1	DG	P-O3'-C3'	-8.75	107.08	120.20
119	K7	13	DG	P-O3'-C3'	-8.75	107.08	120.20
149	N6	26	DG	P-O3'-C3'	-8.75	107.08	120.20
206	T7	5	DG	P-O3'-C3'	-8.75	107.07	120.20
206	T7	7	DG	P-O3'-C3'	-8.75	107.08	120.20
229	VD	5	DG	P-O3'-C3'	-8.75	107.08	120.20
8	A8	10	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	614	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	2615	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	2726	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	5234	DG	P-O3'-C3'	-8.75	107.08	120.20
55	E9	29	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	1804	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	2379	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	2863	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	3115	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	3391	DG	P-O3'-C3'	-8.75	107.08	120.20
35	CC	7	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	3364	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	4271	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	4892	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	4760	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	5743	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	5909	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	6022	DG	P-O3'-C3'	-8.75	107.08	120.20
11	AB	6665	DG	P-O3'-C3'	-8.75	107.08	120.20
16	B3	12	DG	P-O3'-C3'	-8.75	107.08	120.20
43	D8	37	DG	P-O3'-C3'	-8.75	107.08	120.20
83	H3	24	DG	P-O3'-C3'	-8.75	107.08	120.20
93	I2	15	DG	P-O3'-C3'	-8.75	107.08	120.20
136	M2	8	DG	P-O3'-C3'	-8.75	107.08	120.20
32	C8	32	DG	P-O3'-C3'	-8.75	107.08	120.20
55	E9	11	DG	P-O3'-C3'	-8.75	107.08	120.20
78	GA	13	DG	P-O3'-C3'	-8.75	107.08	120.20
121	K9	27	DG	P-O3'-C3'	-8.75	107.08	120.20
146	N2	8	DG	P-O3'-C3'	-8.75	107.08	120.20
148	N5	18	DG	P-O3'-C3'	-8.75	107.08	120.20
155	ND	14	DG	P-O3'-C3'	-8.75	107.08	120.20
165	OD	29	DG	P-O3'-C3'	-8.75	107.08	120.20
175	PD	8	DG	P-O3'-C3'	-8.75	107.08	120.20
178	Q5	15	DG	P-O3'-C3'	-8.75	107.08	120.20
187	R5	25	DG	P-O3'-C3'	-8.75	107.08	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
206	T7	42	DG	P-O3'-C3'	-8.75	107.08	120.20
217	U9	24	DG	P-O3'-C3'	-8.75	107.08	120.20
221	V2	12	DG	P-O3'-C3'	-8.75	107.08	120.20
226	V9	22	DG	P-O3'-C3'	-8.75	107.08	120.20
1	A1	23	DG	P-O3'-C3'	-8.74	107.08	120.20
9	A9	8	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	760	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	828	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	2628	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	3900	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	4376	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	4438	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	5192	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	5611	DG	P-O3'-C3'	-8.74	107.08	120.20
26	C1	19	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	351	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	1068	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	1116	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	2698	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	2028	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	3133	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	3633	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	6158	DG	P-O3'-C3'	-8.74	107.08	120.20
111	JA	13	DG	P-O3'-C3'	-8.74	107.08	120.20
154	NC	21	DG	P-O3'-C3'	-8.74	107.08	120.20
156	O2	54	DG	P-O3'-C3'	-8.74	107.08	120.20
175	PD	21	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	2063	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	3124	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	3727	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	3892	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	4256	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	4311	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	4650	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	4807	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	5552	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	5977	DG	P-O3'-C3'	-8.74	107.08	120.20
11	AB	5815	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	6943	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	7193	DG	P-O3'-C3'	-8.74	107.08	120.20
22	B9	24	DG	P-O3'-C3'	-8.74	107.08	120.20
31	C7	20	DG	P-O3'-C3'	-8.74	107.09	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	DA	11	DG	P-O3'-C3'	-8.74	107.08	120.20
45	DA	20	DG	P-O3'-C3'	-8.74	107.08	120.20
53	E7	13	DG	P-O3'-C3'	-8.74	107.08	120.20
101	IC	13	DG	P-O3'-C3'	-8.74	107.08	120.20
103	J1	4	DG	P-O3'-C3'	-8.74	107.09	120.20
156	O2	26	DG	P-O3'-C3'	-8.74	107.09	120.20
206	T7	40	DG	P-O3'-C3'	-8.74	107.09	120.20
219	UC	27	DG	P-O3'-C3'	-8.74	107.09	120.20
222	V3	17	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	2545	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	5081	DG	P-O3'-C3'	-8.74	107.09	120.20
37	D1	12	DG	P-O3'-C3'	-8.74	107.09	120.20
227	VA	5	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	124	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	681	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	2218	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	2688	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	3034	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	3175	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	4683	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	6331	DG	P-O3'-C3'	-8.74	107.09	120.20
24	BC	28	DG	P-O3'-C3'	-8.74	107.09	120.20
225	V8	22	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	7174	DG	P-O3'-C3'	-8.74	107.09	120.20
73	G5	8	DG	P-O3'-C3'	-8.74	107.09	120.20
83	H3	11	DG	P-O3'-C3'	-8.74	107.09	120.20
90	HC	27	DG	P-O3'-C3'	-8.74	107.09	120.20
165	OD	6	DG	P-O3'-C3'	-8.74	107.09	120.20
202	SD	16	DG	P-O3'-C3'	-8.74	107.09	120.20
9	A9	6	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	792	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	1194	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	3097	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	3406	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	4411	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	4633	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	5761	DG	P-O3'-C3'	-8.74	107.09	120.20
11	AB	5845	DG	P-O3'-C3'	-8.74	107.09	120.20
14	B1	27	DG	P-O3'-C3'	-8.74	107.09	120.20
18	B5	33	DG	P-O3'-C3'	-8.74	107.09	120.20
55	E9	38	DG	P-O3'-C3'	-8.74	107.09	120.20
67	FA	27	DG	P-O3'-C3'	-8.74	107.09	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6897	DG	P-O3'-C3'	-8.74	107.09	120.20
38	D2	1	DG	P-O3'-C3'	-8.74	107.09	120.20
59	F1	18	DG	P-O3'-C3'	-8.74	107.09	120.20
61	F3	13	DG	P-O3'-C3'	-8.74	107.09	120.20
94	I3	43	DG	P-O3'-C3'	-8.74	107.09	120.20
99	I9	29	DG	P-O3'-C3'	-8.74	107.09	120.20
113	JD	1	DG	P-O3'-C3'	-8.74	107.09	120.20
153	NA	17	DG	P-O3'-C3'	-8.74	107.09	120.20
63	F6	6	DG	P-O3'-C3'	-8.74	107.10	120.20
130	L7	36	DG	P-O3'-C3'	-8.74	107.09	120.20
158	O5	32	DG	P-O3'-C3'	-8.74	107.09	120.20
178	Q5	9	DG	P-O3'-C3'	-8.74	107.09	120.20
179	Q7	25	DG	P-O3'-C3'	-8.74	107.09	120.20
206	T7	21	DG	P-O3'-C3'	-8.74	107.10	120.20
220	UD	7	DG	P-O3'-C3'	-8.74	107.09	120.20
238	X9	7	DG	P-O3'-C3'	-8.74	107.10	120.20
4	A4	8	DG	P-O3'-C3'	-8.73	107.10	120.20
11	AB	483	DG	P-O3'-C3'	-8.73	107.10	120.20
11	AB	984	DG	P-O3'-C3'	-8.73	107.10	120.20
11	AB	1604	DG	P-O3'-C3'	-8.73	107.10	120.20
11	AB	2119	DG	P-O3'-C3'	-8.73	107.10	120.20
11	AB	2214	DG	P-O3'-C3'	-8.73	107.10	120.20
11	AB	6746	DG	P-O3'-C3'	-8.73	107.10	120.20
11	AB	7110	DG	P-O3'-C3'	-8.73	107.10	120.20
13	AD	16	DG	P-O3'-C3'	-8.73	107.10	120.20
160	O7	16	DG	P-O3'-C3'	-8.73	107.10	120.20
238	X9	55	DG	P-O3'-C3'	-8.73	107.10	120.20
13	AD	26	DG	P-O3'-C3'	-8.73	107.10	120.20
18	B5	29	DG	P-O3'-C3'	-8.73	107.10	120.20
39	D3	26	DG	P-O3'-C3'	-8.73	107.10	120.20
85	H6	26	DG	P-O3'-C3'	-8.73	107.10	120.20
102	ID	21	DG	P-O3'-C3'	-8.73	107.10	120.20
118	K6	18	DG	P-O3'-C3'	-8.73	107.10	120.20
121	K9	9	DG	P-O3'-C3'	-8.73	107.10	120.20
160	O7	48	DG	P-O3'-C3'	-8.73	107.10	120.20
191	RA	7	DG	P-O3'-C3'	-8.73	107.10	120.20
207	T8	14	DG	P-O3'-C3'	-8.73	107.10	120.20
210	TC	24	DG	P-O3'-C3'	-8.73	107.10	120.20
226	V9	24	DG	P-O3'-C3'	-8.73	107.10	120.20
8	A8	5	DG	P-O3'-C3'	-8.73	107.10	120.20
11	AB	5875	DG	P-O3'-C3'	-8.73	107.10	120.20
11	AB	6893	DG	P-O3'-C3'	-8.73	107.10	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
98	I8	35	DG	P-O3'-C3'	-8.73	107.10	120.20
205	T5	22	DG	P-O3'-C3'	-8.73	107.10	120.20
11	AB	2986	DG	P-O3'-C3'	-8.73	107.11	120.20
11	AB	3576	DG	P-O3'-C3'	-8.73	107.11	120.20
11	AB	6255	DG	P-O3'-C3'	-8.73	107.10	120.20
117	K5	17	DG	P-O3'-C3'	-8.73	107.10	120.20
140	M7	22	DG	P-O3'-C3'	-8.73	107.10	120.20
194	S2	12	DG	P-O3'-C3'	-8.73	107.10	120.20
202	SD	6	DG	P-O3'-C3'	-8.73	107.10	120.20
12	AC	5	DG	P-O3'-C3'	-8.73	107.11	120.20
24	BC	23	DG	P-O3'-C3'	-8.73	107.11	120.20
43	D8	33	DG	P-O3'-C3'	-8.73	107.11	120.20
49	E2	7	DG	P-O3'-C3'	-8.73	107.11	120.20
66	F9	19	DG	P-O3'-C3'	-8.73	107.11	120.20
69	FD	40	DG	P-O3'-C3'	-8.73	107.10	120.20
151	N8	11	DG	P-O3'-C3'	-8.73	107.11	120.20
154	NC	8	DG	P-O3'-C3'	-8.73	107.10	120.20
196	S5	22	DG	P-O3'-C3'	-8.73	107.11	120.20
11	AB	140	DG	P-O3'-C3'	-8.73	107.11	120.20
11	AB	1628	DG	P-O3'-C3'	-8.73	107.11	120.20
219	UC	31	DG	P-O3'-C3'	-8.73	107.11	120.20
11	AB	1998	DG	P-O3'-C3'	-8.73	107.11	120.20
11	AB	2715	DG	P-O3'-C3'	-8.73	107.11	120.20
11	AB	2826	DG	P-O3'-C3'	-8.73	107.11	120.20
11	AB	2920	DG	P-O3'-C3'	-8.73	107.11	120.20
11	AB	3430	DG	P-O3'-C3'	-8.73	107.11	120.20
11	AB	5583	DG	P-O3'-C3'	-8.73	107.11	120.20
108	J7	31	DG	P-O3'-C3'	-8.73	107.11	120.20
125	L1	33	DG	P-O3'-C3'	-8.73	107.11	120.20
195	S3	24	DG	P-O3'-C3'	-8.73	107.11	120.20
199	S9	6	DG	P-O3'-C3'	-8.73	107.11	120.20
218	UA	11	DG	P-O3'-C3'	-8.73	107.11	120.20
222	V3	21	DG	P-O3'-C3'	-8.73	107.11	120.20
11	AB	6072	DG	P-O3'-C3'	-8.73	107.11	120.20
103	J1	9	DG	P-O3'-C3'	-8.73	107.11	120.20
167	P3	4	DG	P-O3'-C3'	-8.73	107.11	120.20
167	P3	37	DG	P-O3'-C3'	-8.73	107.11	120.20
195	S3	22	DG	P-O3'-C3'	-8.73	107.11	120.20
11	AB	4485	DG	P-O3'-C3'	-8.72	107.11	120.20
11	AB	5257	DG	P-O3'-C3'	-8.72	107.11	120.20
161	O8	9	DG	P-O3'-C3'	-8.72	107.11	120.20
163	OA	4	DG	P-O3'-C3'	-8.72	107.11	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	93	DG	P-O3'-C3'	-8.72	107.11	120.20
11	AB	5956	DG	P-O3'-C3'	-8.72	107.11	120.20
11	AB	7123	DG	P-O3'-C3'	-8.72	107.11	120.20
14	B1	18	DG	P-O3'-C3'	-8.72	107.11	120.20
25	BD	10	DG	P-O3'-C3'	-8.72	107.11	120.20
206	T7	50	DG	P-O3'-C3'	-8.72	107.11	120.20
85	H6	31	DG	P-O3'-C3'	-8.72	107.11	120.20
209	TA	6	DG	P-O3'-C3'	-8.72	107.11	120.20
225	V8	13	DG	P-O3'-C3'	-8.72	107.12	120.20
4	A4	23	DG	P-O3'-C3'	-8.72	107.12	120.20
11	AB	4329	DG	P-O3'-C3'	-8.72	107.12	120.20
106	J5	12	DG	P-O3'-C3'	-8.72	107.12	120.20
182	QA	15	DG	P-O3'-C3'	-8.72	107.12	120.20
38	D2	6	DG	P-O3'-C3'	-8.72	107.12	120.20
89	HA	13	DG	P-O3'-C3'	-8.72	107.12	120.20
120	K8	10	DG	P-O3'-C3'	-8.72	107.12	120.20
11	AB	2313	DG	P-O3'-C3'	-8.72	107.12	120.20
22	B9	11	DG	P-O3'-C3'	-8.72	107.12	120.20
138	M5	32	DG	P-O3'-C3'	-8.72	107.12	120.20
170	P7	17	DG	P-O3'-C3'	-8.72	107.12	120.20
11	AB	5560	DG	P-O3'-C3'	-8.72	107.12	120.20
11	AB	6088	DG	P-O3'-C3'	-8.72	107.12	120.20
106	J5	4	DG	P-O3'-C3'	-8.72	107.12	120.20
11	AB	285	DG	P-O3'-C3'	-8.71	107.13	120.20
39	D3	29	DG	P-O3'-C3'	-8.72	107.13	120.20
11	AB	1944	DG	P-O3'-C3'	-8.71	107.13	120.20
11	AB	762	DG	P-O3'-C3'	-8.71	107.13	120.20
11	AB	940	DG	P-O3'-C3'	-8.71	107.13	120.20
11	AB	3381	DG	P-O3'-C3'	-8.71	107.13	120.20
11	AB	5152	DG	P-O3'-C3'	-8.71	107.13	120.20
114	K1	10	DG	P-O3'-C3'	-8.71	107.13	120.20
11	AB	891	DG	P-O3'-C3'	-8.71	107.14	120.20
84	H5	9	DG	P-O3'-C3'	-8.71	107.14	120.20
228	VC	35	DG	P-O3'-C3'	-8.71	107.14	120.20
11	AB	5686	DG	P-O3'-C3'	-8.70	107.15	120.20
22	B9	9	DG	P-O3'-C3'	-8.70	107.15	120.20
61	F3	10	DG	P-O3'-C3'	-8.70	107.14	120.20
102	ID	2	DG	P-O3'-C3'	-8.70	107.15	120.20
198	S8	34	DG	P-O3'-C3'	-8.70	107.15	120.20
11	AB	5299	DG	P-O3'-C3'	-8.70	107.15	120.20
11	AB	546	DG	P-O3'-C3'	-8.70	107.16	120.20
11	AB	5578	DG	P-O3'-C3'	-8.69	107.16	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
97	I7	33	DG	P-O3'-C3'	-8.69	107.17	120.20
11	AB	5066	DG	P-O3'-C3'	-8.65	107.23	120.20
11	AB	735	DG	P-O3'-C3'	-8.61	107.28	120.20
11	AB	317	DG	P-O3'-C3'	-8.61	107.29	120.20
11	AB	2592	DG	P-O3'-C3'	-8.60	107.30	120.20
11	AB	2360	DG	P-O3'-C3'	-8.57	107.34	120.20
11	AB	1260	DG	P-O3'-C3'	-8.55	107.37	120.20
11	AB	5071	DC	O3'-P-O5'	-8.44	91.34	104.00
169	P6	11	DC	O3'-P-O5'	-8.42	91.38	104.00
11	AB	260	DC	O3'-P-O5'	-8.41	91.38	104.00
11	AB	4883	DC	O3'-P-O5'	-8.41	91.38	104.00
11	AB	1124	DC	O3'-P-O5'	-8.41	91.38	104.00
11	AB	4084	DC	O3'-P-O5'	-8.41	91.38	104.00
11	AB	4255	DC	O3'-P-O5'	-8.41	91.38	104.00
11	AB	5447	DC	O3'-P-O5'	-8.41	91.38	104.00
11	AB	1019	DC	O3'-P-O5'	-8.41	91.39	104.00
11	AB	3291	DC	O3'-P-O5'	-8.41	91.39	104.00
214	U5	6	DC	O3'-P-O5'	-8.41	91.39	104.00
11	AB	203	DC	O3'-P-O5'	-8.41	91.39	104.00
11	AB	1942	DC	O3'-P-O5'	-8.41	91.39	104.00
11	AB	4111	DC	O3'-P-O5'	-8.41	91.39	104.00
58	ED	36	DC	O3'-P-O5'	-8.41	91.39	104.00
166	P2	12	DC	O3'-P-O5'	-8.41	91.39	104.00
11	AB	2172	DC	O3'-P-O5'	-8.40	91.39	104.00
11	AB	2434	DC	O3'-P-O5'	-8.40	91.40	104.00
11	AB	3780	DC	O3'-P-O5'	-8.40	91.40	104.00
11	AB	4666	DC	O3'-P-O5'	-8.40	91.40	104.00
72	G3	25	DC	O3'-P-O5'	-8.40	91.40	104.00
152	N9	25	DC	O3'-P-O5'	-8.40	91.39	104.00
238	X9	54	DC	O3'-P-O5'	-8.40	91.40	104.00
11	AB	4610	DC	O3'-P-O5'	-8.40	91.40	104.00
11	AB	3567	DC	O3'-P-O5'	-8.40	91.40	104.00
45	DA	19	DC	O3'-P-O5'	-8.40	91.40	104.00
91	HD	18	DC	O3'-P-O5'	-8.40	91.40	104.00
107	J6	34	DC	O3'-P-O5'	-8.40	91.40	104.00
211	TD	40	DC	O3'-P-O5'	-8.40	91.40	104.00
212	U2	19	DC	O3'-P-O5'	-8.40	91.40	104.00
11	AB	686	DC	O3'-P-O5'	-8.40	91.40	104.00
11	AB	3167	DC	O3'-P-O5'	-8.40	91.40	104.00
11	AB	5149	DC	O3'-P-O5'	-8.40	91.40	104.00
66	F9	14	DC	O3'-P-O5'	-8.40	91.40	104.00
93	I2	29	DC	O3'-P-O5'	-8.40	91.40	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	365	DC	O3'-P-O5'	-8.40	91.41	104.00
11	AB	2083	DC	O3'-P-O5'	-8.40	91.40	104.00
11	AB	5011	DC	O3'-P-O5'	-8.40	91.40	104.00
13	AD	15	DC	O3'-P-O5'	-8.40	91.40	104.00
226	V9	21	DC	O3'-P-O5'	-8.40	91.40	104.00
11	AB	4331	DC	O3'-P-O5'	-8.40	91.41	104.00
11	AB	7242	DC	O3'-P-O5'	-8.40	91.41	104.00
18	B5	2	DC	O3'-P-O5'	-8.40	91.41	104.00
39	D3	9	DC	O3'-P-O5'	-8.40	91.40	104.00
163	OA	3	DC	O3'-P-O5'	-8.40	91.41	104.00
166	P2	10	DC	O3'-P-O5'	-8.40	91.40	104.00
231	W5	34	DC	O3'-P-O5'	-8.40	91.40	104.00
182	QA	1	DC	O3'-P-O5'	-8.40	91.41	104.00
11	AB	658	DC	O3'-P-O5'	-8.39	91.41	104.00
11	AB	3457	DC	O3'-P-O5'	-8.39	91.41	104.00
122	KA	2	DC	O3'-P-O5'	-8.39	91.41	104.00
11	AB	3984	DC	O3'-P-O5'	-8.39	91.41	104.00
11	AB	5532	DC	O3'-P-O5'	-8.39	91.41	104.00
11	AB	6645	DC	O3'-P-O5'	-8.39	91.41	104.00
177	Q3	18	DC	O3'-P-O5'	-8.39	91.41	104.00
211	TD	38	DC	O3'-P-O5'	-8.39	91.41	104.00
11	AB	1820	DC	O3'-P-O5'	-8.39	91.41	104.00
11	AB	6186	DC	O3'-P-O5'	-8.39	91.42	104.00
11	AB	6591	DC	O3'-P-O5'	-8.39	91.41	104.00
93	I2	18	DC	O3'-P-O5'	-8.39	91.41	104.00
49	E2	39	DC	O3'-P-O5'	-8.39	91.42	104.00
113	JD	13	DC	O3'-P-O5'	-8.39	91.41	104.00
133	LA	18	DC	O3'-P-O5'	-8.39	91.41	104.00
145	MD	32	DC	O3'-P-O5'	-8.39	91.41	104.00
149	N6	35	DC	O3'-P-O5'	-8.39	91.42	104.00
175	PD	19	DC	O3'-P-O5'	-8.39	91.41	104.00
182	QA	23	DC	O3'-P-O5'	-8.39	91.41	104.00
190	R9	44	DC	O3'-P-O5'	-8.39	91.42	104.00
204	T3	2	DC	O3'-P-O5'	-8.39	91.41	104.00
11	AB	1810	DC	O3'-P-O5'	-8.39	91.42	104.00
11	AB	4481	DC	O3'-P-O5'	-8.39	91.42	104.00
11	AB	4589	DC	O3'-P-O5'	-8.39	91.42	104.00
3	A3	12	DC	O3'-P-O5'	-8.39	91.42	104.00
11	AB	737	DC	O3'-P-O5'	-8.39	91.42	104.00
11	AB	1525	DC	O3'-P-O5'	-8.39	91.42	104.00
11	AB	1980	DC	O3'-P-O5'	-8.39	91.42	104.00
11	AB	2340	DC	O3'-P-O5'	-8.39	91.42	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2590	DC	O3'-P-O5'	-8.39	91.42	104.00
11	AB	5018	DC	O3'-P-O5'	-8.39	91.42	104.00
11	AB	6348	DC	O3'-P-O5'	-8.39	91.42	104.00
76	G8	14	DC	O3'-P-O5'	-8.39	91.42	104.00
28	C3	23	DC	O3'-P-O5'	-8.39	91.42	104.00
113	JD	25	DC	O3'-P-O5'	-8.39	91.42	104.00
115	K2	10	DC	O3'-P-O5'	-8.39	91.42	104.00
187	R5	9	DC	O3'-P-O5'	-8.39	91.42	104.00
224	V7	15	DC	O3'-P-O5'	-8.39	91.42	104.00
11	AB	1982	DC	O3'-P-O5'	-8.38	91.42	104.00
11	AB	6412	DC	O3'-P-O5'	-8.38	91.42	104.00
98	I8	38	DC	O3'-P-O5'	-8.39	91.42	104.00
11	AB	6580	DC	O3'-P-O5'	-8.38	91.42	104.00
11	AB	6723	DC	O3'-P-O5'	-8.38	91.42	104.00
32	C8	27	DC	O3'-P-O5'	-8.38	91.42	104.00
94	I3	46	DC	O3'-P-O5'	-8.38	91.42	104.00
111	JA	9	DC	O3'-P-O5'	-8.38	91.42	104.00
125	L1	5	DC	O3'-P-O5'	-8.38	91.42	104.00
143	MA	44	DC	O3'-P-O5'	-8.38	91.42	104.00
159	O6	6	DC	O3'-P-O5'	-8.38	91.42	104.00
164	OC	13	DC	O3'-P-O5'	-8.38	91.42	104.00
230	W3	36	DC	O3'-P-O5'	-8.38	91.42	104.00
236	X5	18	DC	O3'-P-O5'	-8.38	91.42	104.00
11	AB	1407	DC	O3'-P-O5'	-8.38	91.42	104.00
11	AB	2266	DC	O3'-P-O5'	-8.38	91.43	104.00
11	AB	3565	DC	O3'-P-O5'	-8.38	91.42	104.00
11	AB	4321	DC	O3'-P-O5'	-8.38	91.43	104.00
70	G1	7	DC	O3'-P-O5'	-8.38	91.42	104.00
91	HD	24	DC	O3'-P-O5'	-8.38	91.43	104.00
11	AB	857	DC	O3'-P-O5'	-8.38	91.43	104.00
11	AB	968	DC	O3'-P-O5'	-8.38	91.43	104.00
11	AB	1814	DC	O3'-P-O5'	-8.38	91.43	104.00
11	AB	3620	DC	O3'-P-O5'	-8.38	91.43	104.00
11	AB	4106	DC	O3'-P-O5'	-8.38	91.43	104.00
11	AB	4289	DC	O3'-P-O5'	-8.38	91.43	104.00
11	AB	6948	DC	O3'-P-O5'	-8.38	91.43	104.00
11	AB	7077	DC	O3'-P-O5'	-8.38	91.43	104.00
40	D5	5	DC	O3'-P-O5'	-8.38	91.43	104.00
11	AB	4599	DC	O3'-P-O5'	-8.38	91.43	104.00
11	AB	4880	DC	O3'-P-O5'	-8.38	91.43	104.00
11	AB	5992	DC	O3'-P-O5'	-8.38	91.43	104.00
49	E2	5	DC	O3'-P-O5'	-8.38	91.43	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	E7	12	DC	O3'-P-O5'	-8.38	91.43	104.00
134	LC	17	DC	O3'-P-O5'	-8.38	91.42	104.00
199	S9	9	DC	O3'-P-O5'	-8.38	91.43	104.00
61	F3	16	DC	O3'-P-O5'	-8.38	91.43	104.00
228	VC	32	DC	O3'-P-O5'	-8.38	91.43	104.00
90	HC	14	DC	O3'-P-O5'	-8.38	91.43	104.00
128	L5	3	DC	O3'-P-O5'	-8.38	91.43	104.00
147	N3	24	DC	O3'-P-O5'	-8.38	91.43	104.00
200	SA	25	DC	O3'-P-O5'	-8.38	91.43	104.00
222	V3	16	DC	O3'-P-O5'	-8.38	91.43	104.00
11	AB	2170	DC	O3'-P-O5'	-8.38	91.43	104.00
11	AB	2205	DC	O3'-P-O5'	-8.38	91.44	104.00
11	AB	4730	DC	O3'-P-O5'	-8.38	91.43	104.00
11	AB	4997	DC	O3'-P-O5'	-8.38	91.43	104.00
11	AB	6169	DC	O3'-P-O5'	-8.38	91.43	104.00
11	AB	6430	DC	O3'-P-O5'	-8.38	91.43	104.00
11	AB	7207	DC	O3'-P-O5'	-8.38	91.43	104.00
41	D6	4	DC	O3'-P-O5'	-8.38	91.43	104.00
65	F8	10	DC	O3'-P-O5'	-8.38	91.43	104.00
214	U5	26	DC	O3'-P-O5'	-8.38	91.43	104.00
219	UC	30	DC	O3'-P-O5'	-8.38	91.44	104.00
11	AB	3524	DC	O3'-P-O5'	-8.38	91.44	104.00
11	AB	3610	DC	O3'-P-O5'	-8.38	91.44	104.00
11	AB	5865	DC	O3'-P-O5'	-8.38	91.44	104.00
11	AB	823	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	1100	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	4671	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	4942	DC	O3'-P-O5'	-8.38	91.44	104.00
30	C6	40	DC	O3'-P-O5'	-8.38	91.44	104.00
37	D1	10	DC	O3'-P-O5'	-8.37	91.44	104.00
52	E6	15	DC	O3'-P-O5'	-8.38	91.44	104.00
72	G3	10	DC	O3'-P-O5'	-8.37	91.44	104.00
116	K3	14	DC	O3'-P-O5'	-8.37	91.44	104.00
148	N5	11	DC	O3'-P-O5'	-8.37	91.44	104.00
164	OC	10	DC	O3'-P-O5'	-8.37	91.44	104.00
213	U3	4	DC	O3'-P-O5'	-8.38	91.44	104.00
3	A3	9	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	944	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	2027	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	2976	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	4003	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	5214	DC	O3'-P-O5'	-8.37	91.44	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
147	N3	6	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	428	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	3528	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	4132	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	5440	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	6167	DC	O3'-P-O5'	-8.37	91.44	104.00
94	I3	49	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	4140	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	4758	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	7058	DC	O3'-P-O5'	-8.37	91.44	104.00
47	DD	5	DC	O3'-P-O5'	-8.37	91.44	104.00
73	G5	13	DC	O3'-P-O5'	-8.37	91.44	104.00
79	GC	2	DC	O3'-P-O5'	-8.37	91.44	104.00
169	P6	6	DC	O3'-P-O5'	-8.37	91.44	104.00
186	R3	18	DC	O3'-P-O5'	-8.37	91.44	104.00
227	VA	21	DC	O3'-P-O5'	-8.37	91.44	104.00
10	AA	10	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	1088	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	1997	DC	O3'-P-O5'	-8.37	91.44	104.00
11	AB	2523	DC	O3'-P-O5'	-8.37	91.45	104.00
11	AB	4735	DC	O3'-P-O5'	-8.37	91.45	104.00
11	AB	4952	DC	O3'-P-O5'	-8.37	91.45	104.00
11	AB	5592	DC	O3'-P-O5'	-8.37	91.45	104.00
11	AB	6493	DC	O3'-P-O5'	-8.37	91.45	104.00
11	AB	6881	DC	O3'-P-O5'	-8.37	91.45	104.00
88	H9	29	DC	O3'-P-O5'	-8.37	91.45	104.00
104	J2	15	DC	O3'-P-O5'	-8.37	91.45	104.00
129	L6	24	DC	O3'-P-O5'	-8.37	91.44	104.00
143	MA	13	DC	O3'-P-O5'	-8.37	91.45	104.00
156	O2	38	DC	O3'-P-O5'	-8.37	91.45	104.00
163	OA	11	DC	O3'-P-O5'	-8.37	91.45	104.00
229	VD	4	DC	O3'-P-O5'	-8.37	91.45	104.00
59	F1	1	DC	O3'-P-O5'	-8.37	91.45	104.00
137	M3	25	DC	O3'-P-O5'	-8.37	91.45	104.00
150	N7	12	DC	O3'-P-O5'	-8.37	91.45	104.00
182	QA	5	DC	O3'-P-O5'	-8.37	91.45	104.00
205	T5	1	DC	O3'-P-O5'	-8.37	91.45	104.00
220	UD	6	DC	O3'-P-O5'	-8.37	91.45	104.00
11	AB	4086	DC	O3'-P-O5'	-8.37	91.45	104.00
11	AB	4089	DC	O3'-P-O5'	-8.37	91.45	104.00
11	AB	4144	DC	O3'-P-O5'	-8.37	91.45	104.00
11	AB	4247	DC	O3'-P-O5'	-8.37	91.45	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4867	DC	O3'-P-O5'	-8.37	91.45	104.00
11	AB	5086	DC	O3'-P-O5'	-8.37	91.45	104.00
11	AB	6610	DC	O3'-P-O5'	-8.37	91.45	104.00
11	AB	7201	DC	O3'-P-O5'	-8.37	91.45	104.00
79	GC	16	DC	O3'-P-O5'	-8.37	91.45	104.00
88	H9	19	DC	O3'-P-O5'	-8.37	91.45	104.00
147	N3	18	DC	O3'-P-O5'	-8.37	91.45	104.00
156	O2	53	DC	O3'-P-O5'	-8.37	91.45	104.00
167	P3	8	DC	O3'-P-O5'	-8.37	91.45	104.00
178	Q5	4	DC	O3'-P-O5'	-8.37	91.45	104.00
217	U9	19	DC	O3'-P-O5'	-8.37	91.45	104.00
178	Q5	8	DC	O3'-P-O5'	-8.36	91.45	104.00
223	V5	5	DC	O3'-P-O5'	-8.36	91.45	104.00
1	A1	52	DC	O3'-P-O5'	-8.36	91.45	104.00
11	AB	443	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	3141	DC	O3'-P-O5'	-8.36	91.45	104.00
238	X9	36	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	929	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	2673	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	3490	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	3756	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	4117	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	4302	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	4430	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	5166	DC	O3'-P-O5'	-8.36	91.45	104.00
11	AB	5454	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	5863	DC	O3'-P-O5'	-8.36	91.45	104.00
14	B1	8	DC	O3'-P-O5'	-8.36	91.45	104.00
11	AB	4870	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	6063	DC	O3'-P-O5'	-8.36	91.46	104.00
59	F1	17	DC	O3'-P-O5'	-8.36	91.46	104.00
83	H3	36	DC	O3'-P-O5'	-8.36	91.46	104.00
150	N7	19	DC	O3'-P-O5'	-8.36	91.46	104.00
206	T7	20	DC	O3'-P-O5'	-8.36	91.46	104.00
223	V5	2	DC	O3'-P-O5'	-8.36	91.46	104.00
5	A5	24	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	1390	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	2208	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	5133	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	7215	DC	O3'-P-O5'	-8.36	91.46	104.00
22	B9	33	DC	O3'-P-O5'	-8.36	91.46	104.00
63	F6	10	DC	O3'-P-O5'	-8.36	91.46	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
72	G3	19	DC	O3'-P-O5'	-8.36	91.46	104.00
94	I3	19	DC	O3'-P-O5'	-8.36	91.46	104.00
143	MA	10	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	3229	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	4601	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	5052	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	5095	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	5703	DC	O3'-P-O5'	-8.36	91.46	104.00
72	G3	13	DC	O3'-P-O5'	-8.36	91.46	104.00
145	MD	12	DC	O3'-P-O5'	-8.36	91.46	104.00
207	T8	21	DC	O3'-P-O5'	-8.36	91.46	104.00
227	VA	23	DC	O3'-P-O5'	-8.36	91.46	104.00
218	UA	15	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	1227	DC	O3'-P-O5'	-8.36	91.47	104.00
11	AB	2525	DC	O3'-P-O5'	-8.36	91.47	104.00
11	AB	2995	DC	O3'-P-O5'	-8.36	91.47	104.00
11	AB	4232	DC	O3'-P-O5'	-8.36	91.46	104.00
11	AB	4800	DC	O3'-P-O5'	-8.36	91.47	104.00
11	AB	7246	DC	O3'-P-O5'	-8.36	91.47	104.00
78	GA	1	DC	O3'-P-O5'	-8.36	91.46	104.00
179	Q7	12	DC	O3'-P-O5'	-8.36	91.47	104.00
192	RC	27	DC	O3'-P-O5'	-8.36	91.47	104.00
217	U9	22	DC	O3'-P-O5'	-8.36	91.47	104.00
221	V2	6	DC	O3'-P-O5'	-8.36	91.47	104.00
11	AB	860	DC	O3'-P-O5'	-8.35	91.47	104.00
11	AB	2312	DC	O3'-P-O5'	-8.35	91.47	104.00
11	AB	3474	DC	O3'-P-O5'	-8.35	91.47	104.00
11	AB	6478	DC	O3'-P-O5'	-8.35	91.47	104.00
82	H2	29	DC	O3'-P-O5'	-8.35	91.47	104.00
167	P3	2	DC	O3'-P-O5'	-8.35	91.47	104.00
11	AB	1118	DC	O3'-P-O5'	-8.35	91.47	104.00
11	AB	1468	DC	O3'-P-O5'	-8.35	91.47	104.00
55	E9	17	DC	O3'-P-O5'	-8.35	91.47	104.00
11	AB	1723	DC	O3'-P-O5'	-8.35	91.47	104.00
11	AB	3954	DC	O3'-P-O5'	-8.35	91.47	104.00
11	AB	4541	DC	O3'-P-O5'	-8.35	91.47	104.00
99	I9	26	DC	O3'-P-O5'	-8.35	91.47	104.00
11	AB	4603	DC	O3'-P-O5'	-8.35	91.47	104.00
86	H7	23	DC	O3'-P-O5'	-8.35	91.47	104.00
161	O8	27	DC	O3'-P-O5'	-8.35	91.47	104.00
181	Q9	15	DC	O3'-P-O5'	-8.35	91.47	104.00
11	AB	7186	DC	O3'-P-O5'	-8.35	91.47	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	950	DC	O3'-P-O5'	-8.35	91.48	104.00
11	AB	2414	DC	O3'-P-O5'	-8.35	91.48	104.00
42	D7	17	DC	O3'-P-O5'	-8.35	91.47	104.00
11	AB	4104	DC	O3'-P-O5'	-8.35	91.48	104.00
11	AB	5034	DC	O3'-P-O5'	-8.35	91.48	104.00
11	AB	6572	DC	O3'-P-O5'	-8.35	91.48	104.00
11	AB	6764	DC	O3'-P-O5'	-8.35	91.48	104.00
85	H6	28	DC	O3'-P-O5'	-8.35	91.48	104.00
101	IC	17	DC	O3'-P-O5'	-8.35	91.48	104.00
119	K7	8	DC	O3'-P-O5'	-8.35	91.47	104.00
191	RA	14	DC	O3'-P-O5'	-8.35	91.48	104.00
11	AB	350	DC	O3'-P-O5'	-8.35	91.48	104.00
11	AB	3019	DC	O3'-P-O5'	-8.35	91.48	104.00
58	ED	30	DC	O3'-P-O5'	-8.35	91.48	104.00
11	AB	6444	DC	O3'-P-O5'	-8.35	91.48	104.00
14	B1	31	DC	O3'-P-O5'	-8.35	91.48	104.00
22	B9	16	DC	O3'-P-O5'	-8.35	91.48	104.00
24	BC	5	DC	O3'-P-O5'	-8.35	91.48	104.00
102	ID	31	DC	O3'-P-O5'	-8.35	91.48	104.00
112	JC	3	DC	O3'-P-O5'	-8.35	91.48	104.00
126	L2	35	DC	O3'-P-O5'	-8.35	91.48	104.00
209	TA	24	DC	O3'-P-O5'	-8.35	91.48	104.00
11	AB	167	DC	O3'-P-O5'	-8.34	91.48	104.00
11	AB	4436	DC	O3'-P-O5'	-8.34	91.48	104.00
11	AB	5190	DC	O3'-P-O5'	-8.34	91.48	104.00
11	AB	7090	DC	O3'-P-O5'	-8.34	91.48	104.00
44	D9	29	DC	O3'-P-O5'	-8.34	91.48	104.00
52	E6	6	DC	O3'-P-O5'	-8.34	91.48	104.00
84	H5	2	DC	O3'-P-O5'	-8.34	91.48	104.00
11	AB	21	DC	O3'-P-O5'	-8.34	91.49	104.00
11	AB	4806	DC	O3'-P-O5'	-8.34	91.49	104.00
103	J1	25	DC	O3'-P-O5'	-8.34	91.49	104.00
145	MD	14	DC	O3'-P-O5'	-8.34	91.49	104.00
158	O5	48	DC	O3'-P-O5'	-8.34	91.48	104.00
187	R5	19	DC	O3'-P-O5'	-8.34	91.49	104.00
204	T3	22	DC	O3'-P-O5'	-8.34	91.49	104.00
232	W7	18	DC	O3'-P-O5'	-8.34	91.48	104.00
11	AB	2714	DC	O3'-P-O5'	-8.34	91.49	104.00
11	AB	2109	DC	O3'-P-O5'	-8.34	91.49	104.00
11	AB	2925	DC	O3'-P-O5'	-8.34	91.49	104.00
30	C6	32	DC	O3'-P-O5'	-8.34	91.49	104.00
11	AB	3722	DC	O3'-P-O5'	-8.34	91.49	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4975	DC	O3'-P-O5'	-8.34	91.49	104.00
11	AB	5278	DC	O3'-P-O5'	-8.34	91.49	104.00
11	AB	6433	DC	O3'-P-O5'	-8.34	91.49	104.00
98	I8	31	DC	O3'-P-O5'	-8.34	91.49	104.00
115	K2	19	DC	O3'-P-O5'	-8.34	91.49	104.00
11	AB	524	DC	O3'-P-O5'	-8.34	91.49	104.00
11	AB	5098	DC	O3'-P-O5'	-8.34	91.49	104.00
23	BA	15	DC	O3'-P-O5'	-8.34	91.49	104.00
106	J5	32	DC	O3'-P-O5'	-8.34	91.49	104.00
11	AB	272	DC	O3'-P-O5'	-8.34	91.50	104.00
11	AB	1037	DC	O3'-P-O5'	-8.34	91.50	104.00
11	AB	1255	DC	O3'-P-O5'	-8.34	91.50	104.00
11	AB	1348	DC	O3'-P-O5'	-8.34	91.49	104.00
11	AB	2055	DC	O3'-P-O5'	-8.34	91.50	104.00
11	AB	2886	DC	O3'-P-O5'	-8.34	91.50	104.00
11	AB	4573	DC	O3'-P-O5'	-8.34	91.50	104.00
51	E5	10	DC	O3'-P-O5'	-8.34	91.50	104.00
52	E6	32	DC	O3'-P-O5'	-8.34	91.49	104.00
115	K2	36	DC	O3'-P-O5'	-8.34	91.49	104.00
220	UD	18	DC	O3'-P-O5'	-8.34	91.49	104.00
11	AB	3211	DC	O3'-P-O5'	-8.34	91.50	104.00
11	AB	3730	DC	O3'-P-O5'	-8.34	91.50	104.00
11	AB	3959	DC	O3'-P-O5'	-8.34	91.50	104.00
11	AB	4903	DC	O3'-P-O5'	-8.34	91.50	104.00
11	AB	6145	DC	O3'-P-O5'	-8.34	91.50	104.00
48	E1	13	DC	O3'-P-O5'	-8.34	91.50	104.00
60	F2	23	DC	O3'-P-O5'	-8.34	91.50	104.00
139	M6	20	DC	O3'-P-O5'	-8.34	91.50	104.00
174	PC	6	DC	O3'-P-O5'	-8.34	91.50	104.00
11	AB	149	DC	O3'-P-O5'	-8.33	91.50	104.00
11	AB	2876	DC	O3'-P-O5'	-8.33	91.50	104.00
11	AB	3878	DC	O3'-P-O5'	-8.33	91.50	104.00
11	AB	4211	DC	O3'-P-O5'	-8.33	91.50	104.00
11	AB	627	DC	O3'-P-O5'	-8.33	91.50	104.00
11	AB	4017	DC	O3'-P-O5'	-8.33	91.50	104.00
11	AB	4196	DC	O3'-P-O5'	-8.33	91.50	104.00
11	AB	5742	DC	O3'-P-O5'	-8.33	91.50	104.00
11	AB	6911	DC	O3'-P-O5'	-8.33	91.50	104.00
41	D6	26	DC	O3'-P-O5'	-8.33	91.50	104.00
42	D7	13	DC	O3'-P-O5'	-8.33	91.50	104.00
97	I7	7	DC	O3'-P-O5'	-8.33	91.50	104.00
154	NC	23	DC	O3'-P-O5'	-8.33	91.50	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
182	QA	17	DC	O3'-P-O5'	-8.33	91.50	104.00
11	AB	293	DC	O3'-P-O5'	-8.33	91.50	104.00
11	AB	521	DC	O3'-P-O5'	-8.33	91.50	104.00
11	AB	998	DC	O3'-P-O5'	-8.33	91.50	104.00
11	AB	1335	DC	O3'-P-O5'	-8.33	91.50	104.00
11	AB	1738	DC	O3'-P-O5'	-8.33	91.50	104.00
11	AB	6998	DC	O3'-P-O5'	-8.33	91.50	104.00
47	DD	33	DC	O3'-P-O5'	-8.33	91.50	104.00
11	AB	2717	DC	O3'-P-O5'	-8.33	91.51	104.00
11	AB	2940	DC	O3'-P-O5'	-8.33	91.50	104.00
11	AB	6787	DC	O3'-P-O5'	-8.33	91.50	104.00
110	J9	17	DC	O3'-P-O5'	-8.33	91.50	104.00
166	P2	20	DC	O3'-P-O5'	-8.33	91.51	104.00
179	Q7	24	DC	O3'-P-O5'	-8.33	91.50	104.00
199	S9	21	DC	O3'-P-O5'	-8.33	91.50	104.00
11	AB	5122	DC	O3'-P-O5'	-8.33	91.51	104.00
11	AB	43	DC	O3'-P-O5'	-8.33	91.51	104.00
11	AB	288	DC	O3'-P-O5'	-8.33	91.51	104.00
11	AB	749	DC	O3'-P-O5'	-8.33	91.51	104.00
11	AB	3237	DC	O3'-P-O5'	-8.33	91.51	104.00
11	AB	4028	DC	O3'-P-O5'	-8.33	91.51	104.00
11	AB	5324	DC	O3'-P-O5'	-8.33	91.51	104.00
11	AB	4397	DC	O3'-P-O5'	-8.33	91.51	104.00
11	AB	4632	DC	O3'-P-O5'	-8.33	91.51	104.00
11	AB	5261	DC	O3'-P-O5'	-8.33	91.51	104.00
11	AB	6848	DC	O3'-P-O5'	-8.33	91.51	104.00
87	H8	18	DC	O3'-P-O5'	-8.33	91.51	104.00
116	K3	5	DC	O3'-P-O5'	-8.33	91.51	104.00
14	B1	38	DC	O3'-P-O5'	-8.33	91.51	104.00
93	I2	40	DC	O3'-P-O5'	-8.33	91.51	104.00
94	I3	28	DC	O3'-P-O5'	-8.33	91.51	104.00
103	J1	3	DC	O3'-P-O5'	-8.33	91.51	104.00
201	SC	18	DC	O3'-P-O5'	-8.33	91.51	104.00
11	AB	479	DC	O3'-P-O5'	-8.32	91.51	104.00
11	AB	1190	DC	O3'-P-O5'	-8.32	91.51	104.00
11	AB	4041	DC	O3'-P-O5'	-8.32	91.51	104.00
26	C1	3	DC	O3'-P-O5'	-8.32	91.51	104.00
33	C9	5	DC	O3'-P-O5'	-8.32	91.51	104.00
11	AB	458	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	1449	DC	O3'-P-O5'	-8.32	91.52	104.00
131	L8	24	DC	O3'-P-O5'	-8.32	91.51	104.00
178	Q5	37	DC	O3'-P-O5'	-8.32	91.51	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1659	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	4035	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	4186	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	5202	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	5945	DC	O3'-P-O5'	-8.32	91.52	104.00
12	AC	19	DC	O3'-P-O5'	-8.32	91.51	104.00
38	D2	16	DC	O3'-P-O5'	-8.32	91.51	104.00
70	G1	15	DC	O3'-P-O5'	-8.32	91.51	104.00
202	SD	5	DC	O3'-P-O5'	-8.32	91.52	104.00
203	T2	21	DC	O3'-P-O5'	-8.32	91.52	104.00
1	A1	28	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	329	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	1926	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	3543	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	3813	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	4183	DC	O3'-P-O5'	-8.32	91.52	104.00
51	E5	6	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	81	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	535	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	4819	DC	O3'-P-O5'	-8.32	91.52	104.00
21	B8	11	DC	O3'-P-O5'	-8.32	91.52	104.00
35	CC	27	DC	O3'-P-O5'	-8.32	91.52	104.00
43	D8	39	DC	O3'-P-O5'	-8.32	91.52	104.00
58	ED	8	DC	O3'-P-O5'	-8.32	91.52	104.00
158	O5	26	DC	O3'-P-O5'	-8.32	91.52	104.00
216	U8	13	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	2454	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	4072	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	4153	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	4970	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	5555	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	5682	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	6996	DC	O3'-P-O5'	-8.32	91.52	104.00
55	E9	21	DC	O3'-P-O5'	-8.32	91.52	104.00
194	S2	11	DC	O3'-P-O5'	-8.32	91.52	104.00
33	C9	12	DC	O3'-P-O5'	-8.32	91.52	104.00
153	NA	6	DC	O3'-P-O5'	-8.32	91.52	104.00
104	J2	25	DC	O3'-P-O5'	-8.32	91.52	104.00
139	M6	18	DC	O3'-P-O5'	-8.32	91.52	104.00
143	MA	39	DC	O3'-P-O5'	-8.32	91.52	104.00
196	S5	8	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	884	DC	O3'-P-O5'	-8.32	91.52	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1196	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	2450	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	4075	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	4313	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	4582	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	6981	DC	O3'-P-O5'	-8.32	91.52	104.00
35	CC	17	DC	O3'-P-O5'	-8.32	91.52	104.00
47	DD	45	DC	O3'-P-O5'	-8.32	91.52	104.00
50	E3	3	DC	O3'-P-O5'	-8.32	91.52	104.00
121	K9	24	DC	O3'-P-O5'	-8.32	91.52	104.00
173	PA	37	DC	O3'-P-O5'	-8.32	91.52	104.00
198	S8	33	DC	O3'-P-O5'	-8.32	91.52	104.00
11	AB	7	DC	O3'-P-O5'	-8.32	91.53	104.00
11	AB	1266	DC	O3'-P-O5'	-8.32	91.53	104.00
11	AB	2036	DC	O3'-P-O5'	-8.32	91.53	104.00
11	AB	4644	DC	O3'-P-O5'	-8.32	91.53	104.00
11	AB	6906	DC	O3'-P-O5'	-8.32	91.53	104.00
54	E8	27	DC	O3'-P-O5'	-8.32	91.53	104.00
69	FD	43	DC	O3'-P-O5'	-8.32	91.53	104.00
104	J2	11	DC	O3'-P-O5'	-8.32	91.52	104.00
109	J8	43	DC	O3'-P-O5'	-8.32	91.53	104.00
165	OD	50	DC	O3'-P-O5'	-8.32	91.53	104.00
183	QC	18	DC	O3'-P-O5'	-8.32	91.53	104.00
11	AB	100	DC	O3'-P-O5'	-8.31	91.53	104.00
11	AB	6832	DC	O3'-P-O5'	-8.31	91.53	104.00
11	AB	3889	DC	O3'-P-O5'	-8.31	91.53	104.00
11	AB	4179	DC	O3'-P-O5'	-8.31	91.53	104.00
11	AB	4655	DC	O3'-P-O5'	-8.31	91.53	104.00
11	AB	5175	DC	O3'-P-O5'	-8.31	91.53	104.00
11	AB	5409	DC	O3'-P-O5'	-8.31	91.53	104.00
11	AB	7173	DC	O3'-P-O5'	-8.31	91.53	104.00
79	GC	11	DC	O3'-P-O5'	-8.31	91.53	104.00
11	AB	6916	DC	O3'-P-O5'	-8.31	91.53	104.00
133	LA	11	DC	O3'-P-O5'	-8.31	91.53	104.00
161	O8	50	DC	O3'-P-O5'	-8.31	91.53	104.00
204	T3	13	DC	O3'-P-O5'	-8.31	91.53	104.00
232	W7	22	DC	O3'-P-O5'	-8.31	91.53	104.00
11	AB	1904	DC	O3'-P-O5'	-8.31	91.53	104.00
11	AB	4960	DC	O3'-P-O5'	-8.31	91.53	104.00
11	AB	5178	DC	O3'-P-O5'	-8.31	91.53	104.00
24	BC	10	DC	O3'-P-O5'	-8.31	91.53	104.00
120	K8	7	DC	O3'-P-O5'	-8.31	91.53	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1283	DC	O3'-P-O5'	-8.31	91.53	104.00
11	AB	2372	DC	O3'-P-O5'	-8.31	91.53	104.00
11	AB	4174	DC	O3'-P-O5'	-8.31	91.53	104.00
11	AB	2539	DC	O3'-P-O5'	-8.31	91.53	104.00
11	AB	6157	DC	O3'-P-O5'	-8.31	91.53	104.00
11	AB	7168	DC	O3'-P-O5'	-8.31	91.53	104.00
25	BD	9	DC	O3'-P-O5'	-8.31	91.53	104.00
43	D8	24	DC	O3'-P-O5'	-8.31	91.53	104.00
69	FD	45	DC	O3'-P-O5'	-8.31	91.53	104.00
96	I6	4	DC	O3'-P-O5'	-8.31	91.53	104.00
110	J9	19	DC	O3'-P-O5'	-8.31	91.53	104.00
123	KC	20	DC	O3'-P-O5'	-8.31	91.53	104.00
132	L9	13	DC	O3'-P-O5'	-8.31	91.53	104.00
160	O7	11	DC	O3'-P-O5'	-8.31	91.53	104.00
209	TA	13	DC	O3'-P-O5'	-8.31	91.53	104.00
11	AB	6336	DC	O3'-P-O5'	-8.31	91.54	104.00
11	AB	15	DC	O3'-P-O5'	-8.31	91.54	104.00
11	AB	767	DC	O3'-P-O5'	-8.31	91.54	104.00
11	AB	1668	DC	O3'-P-O5'	-8.31	91.54	104.00
11	AB	1921	DC	O3'-P-O5'	-8.31	91.54	104.00
11	AB	6708	DC	O3'-P-O5'	-8.31	91.54	104.00
55	E9	40	DC	O3'-P-O5'	-8.31	91.54	104.00
130	L7	29	DC	O3'-P-O5'	-8.31	91.54	104.00
153	NA	16	DC	O3'-P-O5'	-8.31	91.54	104.00
25	BD	6	DC	O3'-P-O5'	-8.31	91.54	104.00
48	E1	25	DC	O3'-P-O5'	-8.31	91.54	104.00
56	EA	19	DC	O3'-P-O5'	-8.31	91.54	104.00
94	I3	56	DC	O3'-P-O5'	-8.31	91.54	104.00
154	NC	25	DC	O3'-P-O5'	-8.31	91.54	104.00
156	O2	17	DC	O3'-P-O5'	-8.31	91.54	104.00
159	O6	9	DC	O3'-P-O5'	-8.31	91.54	104.00
11	AB	52	DC	O3'-P-O5'	-8.31	91.54	104.00
11	AB	2919	DC	O3'-P-O5'	-8.31	91.54	104.00
11	AB	6217	DC	O3'-P-O5'	-8.31	91.54	104.00
11	AB	7156	DC	O3'-P-O5'	-8.30	91.54	104.00
168	P5	2	DC	O3'-P-O5'	-8.31	91.54	104.00
209	TA	28	DC	O3'-P-O5'	-8.31	91.54	104.00
11	AB	1039	DC	O3'-P-O5'	-8.30	91.55	104.00
11	AB	2297	DC	O3'-P-O5'	-8.30	91.55	104.00
11	AB	5199	DC	O3'-P-O5'	-8.30	91.54	104.00
11	AB	6278	DC	O3'-P-O5'	-8.30	91.54	104.00
11	AB	6330	DC	O3'-P-O5'	-8.30	91.55	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
110	J9	14	DC	O3'-P-O5'	-8.30	91.54	104.00
211	TD	9	DC	O3'-P-O5'	-8.30	91.54	104.00
218	UA	10	DC	O3'-P-O5'	-8.30	91.55	104.00
10	AA	19	DC	O3'-P-O5'	-8.30	91.55	104.00
11	AB	1897	DC	O3'-P-O5'	-8.30	91.55	104.00
12	AC	17	DC	O3'-P-O5'	-8.30	91.55	104.00
33	C9	19	DC	O3'-P-O5'	-8.30	91.55	104.00
106	J5	20	DC	O3'-P-O5'	-8.30	91.55	104.00
11	AB	1612	DC	O3'-P-O5'	-8.30	91.55	104.00
11	AB	1913	DC	O3'-P-O5'	-8.30	91.55	104.00
144	MC	3	DC	O3'-P-O5'	-8.30	91.55	104.00
225	V8	21	DC	O3'-P-O5'	-8.30	91.55	104.00
11	AB	40	DC	O3'-P-O5'	-8.30	91.55	104.00
11	AB	4343	DC	O3'-P-O5'	-8.30	91.55	104.00
11	AB	4812	DC	O3'-P-O5'	-8.30	91.55	104.00
11	AB	5128	DC	O3'-P-O5'	-8.30	91.55	104.00
11	AB	6900	DC	O3'-P-O5'	-8.30	91.55	104.00
11	AB	6939	DC	O3'-P-O5'	-8.30	91.55	104.00
28	C3	7	DC	O3'-P-O5'	-8.30	91.55	104.00
79	GC	13	DC	O3'-P-O5'	-8.30	91.55	104.00
197	S7	5	DC	O3'-P-O5'	-8.30	91.55	104.00
97	I7	32	DC	O3'-P-O5'	-8.30	91.55	104.00
176	Q2	14	DC	O3'-P-O5'	-8.30	91.55	104.00
191	RA	25	DC	O3'-P-O5'	-8.30	91.55	104.00
204	T3	43	DC	O3'-P-O5'	-8.30	91.56	104.00
11	AB	3679	DC	O3'-P-O5'	-8.30	91.56	104.00
23	BA	9	DC	O3'-P-O5'	-8.30	91.56	104.00
238	X9	2	DC	O3'-P-O5'	-8.30	91.56	104.00
11	AB	914	DC	O3'-P-O5'	-8.29	91.56	104.00
11	AB	4461	DC	O3'-P-O5'	-8.29	91.56	104.00
11	AB	4516	DC	O3'-P-O5'	-8.29	91.56	104.00
68	FC	6	DC	O3'-P-O5'	-8.29	91.56	104.00
103	J1	23	DC	O3'-P-O5'	-8.29	91.56	104.00
119	K7	28	DC	O3'-P-O5'	-8.29	91.56	104.00
11	AB	4060	DC	O3'-P-O5'	-8.29	91.56	104.00
11	AB	4062	DC	O3'-P-O5'	-8.29	91.56	104.00
11	AB	5259	DC	O3'-P-O5'	-8.29	91.56	104.00
38	D2	13	DC	O3'-P-O5'	-8.29	91.56	104.00
97	I7	10	DC	O3'-P-O5'	-8.29	91.56	104.00
186	R3	12	DC	O3'-P-O5'	-8.29	91.56	104.00
195	S3	6	DC	O3'-P-O5'	-8.29	91.56	104.00
200	SA	7	DC	O3'-P-O5'	-8.29	91.56	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
206	T7	1	DC	O3'-P-O5'	-8.29	91.56	104.00
209	TA	17	DC	O3'-P-O5'	-8.29	91.56	104.00
11	AB	496	DC	O3'-P-O5'	-8.29	91.57	104.00
11	AB	1076	DC	O3'-P-O5'	-8.29	91.57	104.00
11	AB	1460	DC	O3'-P-O5'	-8.29	91.57	104.00
11	AB	2012	DC	O3'-P-O5'	-8.29	91.56	104.00
11	AB	2237	DC	O3'-P-O5'	-8.29	91.56	104.00
11	AB	2655	DC	O3'-P-O5'	-8.29	91.57	104.00
11	AB	2884	DC	O3'-P-O5'	-8.29	91.56	104.00
11	AB	3912	DC	O3'-P-O5'	-8.29	91.57	104.00
20	B7	8	DC	O3'-P-O5'	-8.29	91.57	104.00
109	J8	41	DC	O3'-P-O5'	-8.29	91.56	104.00
173	PA	35	DC	O3'-P-O5'	-8.29	91.56	104.00
11	AB	5046	DC	O3'-P-O5'	-8.29	91.57	104.00
136	M2	7	DC	O3'-P-O5'	-8.29	91.57	104.00
88	H9	15	DC	O3'-P-O5'	-8.29	91.57	104.00
11	AB	4836	DC	O3'-P-O5'	-8.28	91.57	104.00
11	AB	7011	DC	O3'-P-O5'	-8.28	91.58	104.00
11	AB	4488	DC	O3'-P-O5'	-8.28	91.58	104.00
11	AB	4919	DC	O3'-P-O5'	-8.28	91.58	104.00
113	JD	32	DC	O3'-P-O5'	-8.28	91.58	104.00
11	AB	5345	DC	O3'-P-O5'	-8.27	91.59	104.00
179	Q7	6	DC	O3'-P-O5'	-8.27	91.60	104.00
11	AB	5908	DC	O3'-P-O5'	-8.21	91.68	104.00
11	AB	3207	DC	O3'-P-O5'	-8.20	91.70	104.00
79	GC	18	DG	P-O3'-C3'	-8.15	107.97	120.20
11	AB	3013	DG	P-O3'-C3'	-8.15	107.97	120.20
11	AB	4979	DC	O3'-P-O5'	-8.15	91.77	104.00
11	AB	2962	DG	P-O3'-C3'	-8.15	107.98	120.20
11	AB	3208	DG	P-O3'-C3'	-8.15	107.98	120.20
3	A3	17	DG	P-O3'-C3'	-8.14	107.98	120.20
11	AB	5099	DG	P-O3'-C3'	-8.14	107.99	120.20
36	CD	19	DG	P-O3'-C3'	-8.14	107.99	120.20
53	E7	1	DG	P-O3'-C3'	-8.14	107.99	120.20
98	I8	39	DG	P-O3'-C3'	-8.14	107.99	120.20
11	AB	1408	DG	P-O3'-C3'	-8.14	107.99	120.20
11	AB	2096	DG	P-O3'-C3'	-8.13	108.00	120.20
87	H8	15	DG	P-O3'-C3'	-8.13	108.00	120.20
111	JA	10	DG	P-O3'-C3'	-8.13	108.00	120.20
182	QA	24	DG	P-O3'-C3'	-8.13	108.00	120.20
11	AB	623	DG	P-O3'-C3'	-8.13	108.00	120.20
56	EA	5	DG	P-O3'-C3'	-8.13	108.00	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
168	P5	15	DG	P-O3'-C3'	-8.13	108.00	120.20
11	AB	2799	DG	P-O3'-C3'	-8.13	108.01	120.20
11	AB	3518	DG	P-O3'-C3'	-8.13	108.01	120.20
154	NC	35	DG	P-O3'-C3'	-8.13	108.01	120.20
177	Q3	5	DG	P-O3'-C3'	-8.13	108.01	120.20
45	DA	9	DG	P-O3'-C3'	-8.13	108.01	120.20
76	G8	15	DG	P-O3'-C3'	-8.13	108.01	120.20
149	N6	24	DG	P-O3'-C3'	-8.13	108.01	120.20
11	AB	964	DG	P-O3'-C3'	-8.12	108.01	120.20
11	AB	4284	DG	P-O3'-C3'	-8.12	108.01	120.20
11	AB	6870	DG	P-O3'-C3'	-8.12	108.01	120.20
68	FC	14	DG	P-O3'-C3'	-8.12	108.01	120.20
11	AB	223	DG	P-O3'-C3'	-8.12	108.02	120.20
214	U5	38	DG	P-O3'-C3'	-8.12	108.02	120.20
215	U7	21	DG	P-O3'-C3'	-8.12	108.02	120.20
11	AB	3680	DG	P-O3'-C3'	-8.12	108.02	120.20
11	AB	4094	DG	P-O3'-C3'	-8.12	108.02	120.20
32	C8	42	DG	P-O3'-C3'	-8.12	108.02	120.20
178	Q5	30	DG	P-O3'-C3'	-8.12	108.02	120.20
11	AB	946	DG	P-O3'-C3'	-8.12	108.02	120.20
11	AB	2901	DG	P-O3'-C3'	-8.12	108.02	120.20
11	AB	2977	DG	P-O3'-C3'	-8.12	108.02	120.20
11	AB	6100	DG	P-O3'-C3'	-8.12	108.02	120.20
11	AB	2932	DG	P-O3'-C3'	-8.12	108.03	120.20
11	AB	5710	DG	P-O3'-C3'	-8.12	108.02	120.20
11	AB	6434	DG	P-O3'-C3'	-8.12	108.03	120.20
11	AB	541	DG	P-O3'-C3'	-8.12	108.03	120.20
11	AB	731	DG	P-O3'-C3'	-8.11	108.03	120.20
11	AB	6357	DG	P-O3'-C3'	-8.12	108.03	120.20
11	AB	6577	DG	P-O3'-C3'	-8.12	108.03	120.20
11	AB	6557	DG	P-O3'-C3'	-8.11	108.03	120.20
11	AB	7169	DG	P-O3'-C3'	-8.12	108.03	120.20
28	C3	8	DG	P-O3'-C3'	-8.12	108.03	120.20
102	ID	26	DG	P-O3'-C3'	-8.12	108.03	120.20
125	L1	29	DG	P-O3'-C3'	-8.12	108.03	120.20
72	G3	4	DG	P-O3'-C3'	-8.11	108.03	120.20
123	KC	12	DG	P-O3'-C3'	-8.12	108.03	120.20
180	Q8	26	DG	P-O3'-C3'	-8.11	108.03	120.20
198	S8	8	DG	P-O3'-C3'	-8.11	108.03	120.20
11	AB	925	DG	P-O3'-C3'	-8.11	108.03	120.20
11	AB	5289	DG	P-O3'-C3'	-8.11	108.03	120.20
11	AB	5914	DG	P-O3'-C3'	-8.11	108.03	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2056	DG	P-O3'-C3'	-8.11	108.03	120.20
11	AB	2196	DG	P-O3'-C3'	-8.11	108.03	120.20
11	AB	3824	DG	P-O3'-C3'	-8.11	108.03	120.20
11	AB	4338	DG	P-O3'-C3'	-8.11	108.03	120.20
11	AB	6126	DG	P-O3'-C3'	-8.11	108.03	120.20
11	AB	6592	DG	P-O3'-C3'	-8.11	108.03	120.20
11	AB	2818	DG	P-O3'-C3'	-8.11	108.03	120.20
11	AB	3152	DG	P-O3'-C3'	-8.11	108.03	120.20
11	AB	3181	DG	P-O3'-C3'	-8.11	108.03	120.20
11	AB	6874	DG	P-O3'-C3'	-8.11	108.03	120.20
44	D9	7	DG	P-O3'-C3'	-8.11	108.03	120.20
46	DC	14	DG	P-O3'-C3'	-8.11	108.03	120.20
56	EA	15	DG	P-O3'-C3'	-8.11	108.03	120.20
204	T3	18	DG	P-O3'-C3'	-8.11	108.03	120.20
11	AB	608	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	1845	DG	P-O3'-C3'	-8.11	108.03	120.20
11	AB	4112	DG	P-O3'-C3'	-8.11	108.03	120.20
78	GA	8	DG	P-O3'-C3'	-8.11	108.04	120.20
148	N5	7	DG	P-O3'-C3'	-8.11	108.03	120.20
207	T8	19	DG	P-O3'-C3'	-8.11	108.03	120.20
11	AB	1046	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	2366	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	2452	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	3604	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	4551	DG	P-O3'-C3'	-8.11	108.03	120.20
11	AB	4092	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	4293	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	4953	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	5208	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	6760	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	6789	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	6817	DG	P-O3'-C3'	-8.11	108.04	120.20
150	N7	15	DG	P-O3'-C3'	-8.11	108.04	120.20
207	T8	23	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	64	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	1257	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	2193	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	2604	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	2857	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	3682	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	4029	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	4100	DG	P-O3'-C3'	-8.11	108.04	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4290	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	5168	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	6019	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	6245	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	6724	DG	P-O3'-C3'	-8.11	108.04	120.20
137	M3	26	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	6239	DG	P-O3'-C3'	-8.11	108.04	120.20
11	AB	7157	DG	P-O3'-C3'	-8.11	108.04	120.20
29	C5	40	DG	P-O3'-C3'	-8.11	108.04	120.20
69	FD	9	DG	P-O3'-C3'	-8.11	108.04	120.20
72	G3	11	DG	P-O3'-C3'	-8.11	108.04	120.20
103	J1	26	DG	P-O3'-C3'	-8.11	108.04	120.20
173	PA	18	DG	P-O3'-C3'	-8.11	108.04	120.20
207	T8	9	DG	P-O3'-C3'	-8.11	108.04	120.20
216	U8	5	DG	P-O3'-C3'	-8.11	108.04	120.20
213	U3	6	DG	P-O3'-C3'	-8.11	108.04	120.20
5	A5	3	DG	P-O3'-C3'	-8.10	108.04	120.20
5	A5	41	DG	P-O3'-C3'	-8.10	108.04	120.20
11	AB	150	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	1315	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	2139	DG	P-O3'-C3'	-8.10	108.04	120.20
11	AB	2607	DG	P-O3'-C3'	-8.10	108.04	120.20
11	AB	2806	DG	P-O3'-C3'	-8.10	108.04	120.20
11	AB	4344	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	2356	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	3562	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	3993	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	5720	DG	P-O3'-C3'	-8.10	108.04	120.20
133	LA	3	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	3960	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	4542	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	4681	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	4904	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	5048	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	5205	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	6120	DG	P-O3'-C3'	-8.10	108.05	120.20
31	C7	23	DG	P-O3'-C3'	-8.10	108.05	120.20
39	D3	10	DG	P-O3'-C3'	-8.10	108.04	120.20
47	DD	6	DG	P-O3'-C3'	-8.10	108.04	120.20
176	Q2	15	DG	P-O3'-C3'	-8.10	108.05	120.20
196	S5	4	DG	P-O3'-C3'	-8.10	108.05	120.20
223	V5	3	DG	P-O3'-C3'	-8.10	108.04	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6653	DG	P-O3'-C3'	-8.10	108.05	120.20
17	B4	18	DG	P-O3'-C3'	-8.10	108.05	120.20
29	C5	16	DG	P-O3'-C3'	-8.10	108.05	120.20
66	F9	16	DG	P-O3'-C3'	-8.10	108.05	120.20
67	FA	22	DG	P-O3'-C3'	-8.10	108.05	120.20
78	GA	3	DG	P-O3'-C3'	-8.10	108.05	120.20
91	HD	26	DG	P-O3'-C3'	-8.10	108.05	120.20
144	MC	13	DG	P-O3'-C3'	-8.10	108.05	120.20
188	R7	25	DG	P-O3'-C3'	-8.10	108.05	120.20
213	U3	16	DG	P-O3'-C3'	-8.10	108.05	120.20
227	VA	24	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	375	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	584	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	5464	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	5942	DG	P-O3'-C3'	-8.10	108.05	120.20
155	ND	10	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	430	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	1264	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	1815	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	2209	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	3243	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	3818	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	3757	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	5965	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	6857	DG	P-O3'-C3'	-8.10	108.05	120.20
21	B8	12	DG	P-O3'-C3'	-8.10	108.05	120.20
55	E9	43	DG	P-O3'-C3'	-8.10	108.05	120.20
75	G7	24	DG	P-O3'-C3'	-8.10	108.05	120.20
97	I7	11	DG	P-O3'-C3'	-8.10	108.05	120.20
133	LA	19	DG	P-O3'-C3'	-8.10	108.05	120.20
145	MD	15	DG	P-O3'-C3'	-8.10	108.05	120.20
152	N9	12	DG	P-O3'-C3'	-8.10	108.05	120.20
152	N9	45	DG	P-O3'-C3'	-8.10	108.05	120.20
166	P2	13	DG	P-O3'-C3'	-8.10	108.05	120.20
234	W9	1	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	4097	DG	P-O3'-C3'	-8.10	108.05	120.20
11	AB	359	DG	P-O3'-C3'	-8.10	108.06	120.20
11	AB	424	DG	P-O3'-C3'	-8.10	108.06	120.20
11	AB	1773	DG	P-O3'-C3'	-8.10	108.06	120.20
11	AB	5683	DG	P-O3'-C3'	-8.10	108.06	120.20
11	AB	460	DG	P-O3'-C3'	-8.10	108.06	120.20
11	AB	1697	DG	P-O3'-C3'	-8.10	108.06	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3782	DG	P-O3'-C3'	-8.10	108.06	120.20
11	AB	4057	DG	P-O3'-C3'	-8.10	108.06	120.20
11	AB	4884	DG	P-O3'-C3'	-8.10	108.06	120.20
11	AB	5029	DG	P-O3'-C3'	-8.10	108.06	120.20
11	AB	6180	DG	P-O3'-C3'	-8.10	108.06	120.20
11	AB	7180	DG	P-O3'-C3'	-8.10	108.06	120.20
23	BA	34	DG	P-O3'-C3'	-8.10	108.06	120.20
33	C9	2	DG	P-O3'-C3'	-8.10	108.06	120.20
84	H5	7	DG	P-O3'-C3'	-8.10	108.06	120.20
145	MD	33	DG	P-O3'-C3'	-8.10	108.06	120.20
149	N6	21	DG	P-O3'-C3'	-8.10	108.05	120.20
42	D7	9	DG	P-O3'-C3'	-8.10	108.06	120.20
129	L6	6	DG	P-O3'-C3'	-8.10	108.06	120.20
155	ND	3	DG	P-O3'-C3'	-8.10	108.06	120.20
156	O2	59	DG	P-O3'-C3'	-8.10	108.06	120.20
1	A1	4	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	183	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	346	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	687	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	3525	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	4180	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	6001	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	7030	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	2022	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	2206	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	2782	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	2833	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	3476	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	3600	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	3661	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	3703	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	4036	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	4685	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	5448	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	5587	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	5735	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	5818	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	5837	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	6621	DG	P-O3'-C3'	-8.09	108.06	120.20
19	B6	17	DG	P-O3'-C3'	-8.09	108.06	120.20
161	O8	14	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	6270	DG	P-O3'-C3'	-8.09	108.06	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7070	DG	P-O3'-C3'	-8.09	108.06	120.20
25	BD	17	DG	P-O3'-C3'	-8.09	108.06	120.20
33	C9	20	DG	P-O3'-C3'	-8.09	108.06	120.20
126	L2	17	DG	P-O3'-C3'	-8.09	108.06	120.20
203	T2	22	DG	P-O3'-C3'	-8.09	108.06	120.20
238	X9	26	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	26	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	180	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	3395	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	3649	DG	P-O3'-C3'	-8.09	108.06	120.20
22	B9	47	DG	P-O3'-C3'	-8.09	108.06	120.20
99	I9	14	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	439	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	846	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	1376	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	2110	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	5124	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	5434	DG	P-O3'-C3'	-8.09	108.06	120.20
168	P5	10	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	2679	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	3155	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	4604	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	4740	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	4814	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	6340	DG	P-O3'-C3'	-8.09	108.06	120.20
11	AB	6439	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	7066	DG	P-O3'-C3'	-8.09	108.07	120.20
19	B6	9	DG	P-O3'-C3'	-8.09	108.06	120.20
22	B9	17	DG	P-O3'-C3'	-8.09	108.06	120.20
114	K1	22	DG	P-O3'-C3'	-8.09	108.07	120.20
115	K2	11	DG	P-O3'-C3'	-8.09	108.07	120.20
169	P6	12	DG	P-O3'-C3'	-8.09	108.07	120.20
182	QA	6	DG	P-O3'-C3'	-8.09	108.06	120.20
219	UC	18	DG	P-O3'-C3'	-8.09	108.06	120.20
1	A1	53	DG	P-O3'-C3'	-8.09	108.07	120.20
5	A5	19	DG	P-O3'-C3'	-8.09	108.07	120.20
5	A5	39	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	367	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	3847	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	3914	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	6878	DG	P-O3'-C3'	-8.09	108.07	120.20
8	A8	7	DG	P-O3'-C3'	-8.09	108.07	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	A8	24	DG	P-O3'-C3'	-8.09	108.07	120.20
157	O3	19	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	714	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	1362	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	1634	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	2235	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	2893	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	2926	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	3502	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	4278	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	6494	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	6838	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	7136	DG	P-O3'-C3'	-8.09	108.07	120.20
128	L5	4	DG	P-O3'-C3'	-8.09	108.07	120.20
204	T3	39	DG	P-O3'-C3'	-8.09	108.07	120.20
221	V2	15	DG	P-O3'-C3'	-8.09	108.07	120.20
231	W5	8	DG	P-O3'-C3'	-8.09	108.07	120.20
232	W7	23	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	2341	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	2526	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	3163	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	3361	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	3611	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	3966	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	4239	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	4535	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	5503	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	5728	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	5924	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	7038	DG	P-O3'-C3'	-8.09	108.07	120.20
11	AB	7102	DG	P-O3'-C3'	-8.09	108.07	120.20
26	C1	4	DG	P-O3'-C3'	-8.09	108.07	120.20
68	FC	11	DG	P-O3'-C3'	-8.09	108.07	120.20
107	J6	41	DG	P-O3'-C3'	-8.09	108.07	120.20
122	KA	3	DG	P-O3'-C3'	-8.09	108.07	120.20
146	N2	3	DG	P-O3'-C3'	-8.09	108.07	120.20
159	O6	11	DG	P-O3'-C3'	-8.09	108.07	120.20
163	OA	12	DG	P-O3'-C3'	-8.09	108.07	120.20
164	OC	26	DG	P-O3'-C3'	-8.09	108.07	120.20
214	U5	30	DG	P-O3'-C3'	-8.09	108.07	120.20
192	RC	28	DG	P-O3'-C3'	-8.09	108.07	120.20
207	T8	7	DG	P-O3'-C3'	-8.09	108.07	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6775	DG	P-O3'-C3'	-8.08	108.07	120.20
11	AB	7040	DG	P-O3'-C3'	-8.08	108.07	120.20
223	V5	32	DG	P-O3'-C3'	-8.08	108.07	120.20
3	A3	10	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	314	DG	P-O3'-C3'	-8.08	108.08	120.20
134	LC	10	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	481	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	1153	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	1192	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	1380	DG	P-O3'-C3'	-8.08	108.07	120.20
11	AB	1418	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	1527	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	2203	DG	P-O3'-C3'	-8.08	108.07	120.20
11	AB	2533	DG	P-O3'-C3'	-8.08	108.07	120.20
11	AB	2595	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	2956	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	3310	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	3638	DG	P-O3'-C3'	-8.08	108.07	120.20
11	AB	4881	DG	P-O3'-C3'	-8.08	108.07	120.20
23	BA	5	DG	P-O3'-C3'	-8.08	108.07	120.20
11	AB	4365	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	5068	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	5093	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	5183	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	5279	DG	P-O3'-C3'	-8.08	108.07	120.20
11	AB	5382	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	6937	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	7081	DG	P-O3'-C3'	-8.08	108.08	120.20
21	B8	26	DG	P-O3'-C3'	-8.08	108.07	120.20
33	C9	14	DG	P-O3'-C3'	-8.08	108.08	120.20
57	EC	12	DG	P-O3'-C3'	-8.08	108.07	120.20
67	FA	6	DG	P-O3'-C3'	-8.08	108.08	120.20
160	O7	8	DG	P-O3'-C3'	-8.08	108.07	120.20
93	I2	36	DG	P-O3'-C3'	-8.08	108.08	120.20
96	I6	5	DG	P-O3'-C3'	-8.08	108.08	120.20
130	L7	10	DG	P-O3'-C3'	-8.08	108.08	120.20
152	N9	41	DG	P-O3'-C3'	-8.08	108.08	120.20
161	O8	36	DG	P-O3'-C3'	-8.08	108.08	120.20
238	X9	37	DG	P-O3'-C3'	-8.08	108.07	120.20
11	AB	16	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	1660	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	3419	DG	P-O3'-C3'	-8.08	108.08	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6479	DG	P-O3'-C3'	-8.08	108.08	120.20
4	A4	25	DG	P-O3'-C3'	-8.08	108.08	120.20
5	A5	25	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	651	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	704	DG	P-O3'-C3'	-8.08	108.08	120.20
141	M8	21	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	751	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	1489	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	1825	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	4661	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	6460	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	6672	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	6849	DG	P-O3'-C3'	-8.08	108.08	120.20
211	TD	17	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	6715	DG	P-O3'-C3'	-8.08	108.08	120.20
41	D6	27	DG	P-O3'-C3'	-8.08	108.08	120.20
56	EA	12	DG	P-O3'-C3'	-8.08	108.08	120.20
73	G5	16	DG	P-O3'-C3'	-8.08	108.08	120.20
102	ID	8	DG	P-O3'-C3'	-8.08	108.08	120.20
117	K5	44	DG	P-O3'-C3'	-8.08	108.08	120.20
218	UA	8	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	261	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	409	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	805	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	412	DG	P-O3'-C3'	-8.08	108.09	120.20
11	AB	666	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	871	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	1105	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	2173	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	6985	DG	P-O3'-C3'	-8.08	108.08	120.20
80	GD	16	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	874	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	916	DG	P-O3'-C3'	-8.08	108.09	120.20
11	AB	1144	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	1433	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	1349	DG	P-O3'-C3'	-8.08	108.09	120.20
11	AB	1552	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	4868	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	1853	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	3020	DG	P-O3'-C3'	-8.08	108.09	120.20
11	AB	3689	DG	P-O3'-C3'	-8.08	108.09	120.20
11	AB	3842	DG	P-O3'-C3'	-8.08	108.08	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3880	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	6634	DG	P-O3'-C3'	-8.08	108.08	120.20
34	CA	17	DG	P-O3'-C3'	-8.08	108.08	120.20
41	D6	33	DG	P-O3'-C3'	-8.08	108.08	120.20
95	I5	22	DG	P-O3'-C3'	-8.08	108.08	120.20
108	J7	36	DG	P-O3'-C3'	-8.08	108.08	120.20
113	JD	33	DG	P-O3'-C3'	-8.08	108.08	120.20
117	K5	36	DG	P-O3'-C3'	-8.08	108.08	120.20
228	VC	9	DG	P-O3'-C3'	-8.08	108.08	120.20
121	K9	25	DG	P-O3'-C3'	-8.08	108.09	120.20
138	M5	23	DG	P-O3'-C3'	-8.08	108.09	120.20
161	O8	23	DG	P-O3'-C3'	-8.08	108.08	120.20
188	R7	3	DG	P-O3'-C3'	-8.08	108.08	120.20
196	S5	29	DG	P-O3'-C3'	-8.08	108.08	120.20
218	UA	16	DG	P-O3'-C3'	-8.08	108.08	120.20
11	AB	220	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	2516	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	2761	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	4197	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	32	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	54	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	824	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	955	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	2045	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	2401	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	2829	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	4042	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	4228	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	5228	DG	P-O3'-C3'	-8.07	108.09	120.20
13	AD	22	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	6901	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	7019	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	7091	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	7151	DG	P-O3'-C3'	-8.07	108.09	120.20
67	FA	15	DG	P-O3'-C3'	-8.07	108.09	120.20
31	C7	13	DG	P-O3'-C3'	-8.07	108.09	120.20
34	CA	13	DG	P-O3'-C3'	-8.07	108.09	120.20
73	G5	22	DG	P-O3'-C3'	-8.07	108.09	120.20
83	H3	26	DG	P-O3'-C3'	-8.07	108.09	120.20
94	I3	40	DG	P-O3'-C3'	-8.07	108.09	120.20
100	IA	6	DG	P-O3'-C3'	-8.07	108.09	120.20
128	L5	1	DG	P-O3'-C3'	-8.07	108.09	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
145	MD	46	DG	P-O3'-C3'	-8.07	108.09	120.20
166	P2	6	DG	P-O3'-C3'	-8.07	108.09	120.20
190	R9	23	DG	P-O3'-C3'	-8.07	108.09	120.20
218	UA	18	DG	P-O3'-C3'	-8.07	108.09	120.20
7	A7	35	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	29	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	1341	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	2479	DG	P-O3'-C3'	-8.07	108.09	120.20
13	AD	38	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	333	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	895	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	1470	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	1984	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	5557	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	6142	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	6923	DG	P-O3'-C3'	-8.07	108.09	120.20
160	O7	43	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	336	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	1339	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	1593	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	1648	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	2292	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	2569	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	3040	DG	P-O3'-C3'	-8.07	108.09	120.20
20	B7	21	DG	P-O3'-C3'	-8.07	108.09	120.20
49	E2	17	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	3277	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	3466	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	5346	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	5660	DG	P-O3'-C3'	-8.07	108.09	120.20
51	E5	16	DG	P-O3'-C3'	-8.07	108.09	120.20
76	G8	1	DG	P-O3'-C3'	-8.07	108.09	120.20
79	GC	21	DG	P-O3'-C3'	-8.07	108.09	120.20
158	O5	7	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	6521	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	7004	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	7032	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	7078	DG	P-O3'-C3'	-8.07	108.09	120.20
84	H5	14	DG	P-O3'-C3'	-8.07	108.09	120.20
97	I7	14	DG	P-O3'-C3'	-8.07	108.10	120.20
97	I7	26	DG	P-O3'-C3'	-8.07	108.10	120.20
142	M9	21	DG	P-O3'-C3'	-8.07	108.10	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
187	R5	23	DG	P-O3'-C3'	-8.07	108.09	120.20
203	T2	14	DG	P-O3'-C3'	-8.07	108.09	120.20
215	U7	14	DG	P-O3'-C3'	-8.07	108.10	120.20
235	WD	12	DG	P-O3'-C3'	-8.07	108.09	120.20
11	AB	1782	DG	P-O3'-C3'	-8.07	108.10	120.20
49	E2	34	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	952	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	1074	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	1090	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	2334	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	3478	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	4482	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	6717	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	6992	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	1685	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	2416	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	5150	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	5413	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	5893	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	7059	DG	P-O3'-C3'	-8.07	108.10	120.20
13	AD	11	DG	P-O3'-C3'	-8.07	108.10	120.20
22	B9	34	DG	P-O3'-C3'	-8.07	108.10	120.20
31	C7	15	DG	P-O3'-C3'	-8.07	108.10	120.20
39	D3	3	DG	P-O3'-C3'	-8.07	108.10	120.20
182	QA	9	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	7129	DG	P-O3'-C3'	-8.07	108.10	120.20
35	CC	18	DG	P-O3'-C3'	-8.07	108.10	120.20
58	ED	9	DG	P-O3'-C3'	-8.07	108.10	120.20
64	F7	24	DG	P-O3'-C3'	-8.07	108.10	120.20
84	H5	3	DG	P-O3'-C3'	-8.07	108.10	120.20
134	LC	19	DG	P-O3'-C3'	-8.07	108.10	120.20
144	MC	10	DG	P-O3'-C3'	-8.07	108.10	120.20
149	N6	36	DG	P-O3'-C3'	-8.07	108.10	120.20
166	P2	22	DG	P-O3'-C3'	-8.07	108.10	120.20
233	W8	15	DG	P-O3'-C3'	-8.07	108.10	120.20
11	AB	880	DG	P-O3'-C3'	-8.06	108.10	120.20
11	AB	3247	DG	P-O3'-C3'	-8.06	108.10	120.20
11	AB	4332	DG	P-O3'-C3'	-8.06	108.10	120.20
11	AB	6137	DG	P-O3'-C3'	-8.06	108.10	120.20
11	AB	6565	DG	P-O3'-C3'	-8.06	108.10	120.20
11	AB	6568	DG	P-O3'-C3'	-8.06	108.10	120.20
14	B1	39	DG	P-O3'-C3'	-8.06	108.10	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
101	IC	25	DG	P-O3'-C3'	-8.06	108.10	120.20
133	LA	13	DG	P-O3'-C3'	-8.06	108.10	120.20
11	AB	1450	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	1677	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	2298	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	2944	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	2951	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	3547	DG	P-O3'-C3'	-8.06	108.10	120.20
11	AB	6581	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	6611	DG	P-O3'-C3'	-8.06	108.10	120.20
48	E1	21	DG	P-O3'-C3'	-8.06	108.10	120.20
48	E1	26	DG	P-O3'-C3'	-8.06	108.11	120.20
93	I2	38	DG	P-O3'-C3'	-8.06	108.11	120.20
94	I3	2	DG	P-O3'-C3'	-8.06	108.11	120.20
148	N5	12	DG	P-O3'-C3'	-8.06	108.11	120.20
231	W5	18	DG	P-O3'-C3'	-8.06	108.10	120.20
11	AB	340	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	1336	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	1643	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	2301	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	3521	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	4743	DG	P-O3'-C3'	-8.06	108.11	120.20
58	ED	37	DG	P-O3'-C3'	-8.06	108.11	120.20
69	FD	26	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	1929	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	3235	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	4871	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	5802	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	5993	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	5179	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	6291	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	6422	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	6431	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	6449	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	6795	DG	P-O3'-C3'	-8.06	108.11	120.20
135	LD	7	DG	P-O3'-C3'	-8.06	108.11	120.20
161	O8	57	DG	P-O3'-C3'	-8.06	108.11	120.20
56	EA	10	DG	P-O3'-C3'	-8.06	108.11	120.20
72	G3	26	DG	P-O3'-C3'	-8.06	108.11	120.20
125	L1	45	DG	P-O3'-C3'	-8.06	108.11	120.20
212	U2	20	DG	P-O3'-C3'	-8.06	108.11	120.20
230	W3	13	DG	P-O3'-C3'	-8.06	108.11	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1198	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	454	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	1188	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	1288	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	2418	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	3677	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	6518	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	6573	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	6709	DG	P-O3'-C3'	-8.06	108.11	120.20
102	ID	32	DG	P-O3'-C3'	-8.06	108.11	120.20
152	N9	4	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	4638	DG	P-O3'-C3'	-8.06	108.11	120.20
53	E7	20	DG	P-O3'-C3'	-8.06	108.11	120.20
108	J7	12	DG	P-O3'-C3'	-8.06	108.11	120.20
172	P9	15	DG	P-O3'-C3'	-8.06	108.11	120.20
179	Q7	13	DG	P-O3'-C3'	-8.06	108.11	120.20
232	W7	12	DG	P-O3'-C3'	-8.06	108.11	120.20
182	QA	11	DG	P-O3'-C3'	-8.06	108.11	120.20
204	T3	31	DG	P-O3'-C3'	-8.06	108.11	120.20
211	TD	13	DG	P-O3'-C3'	-8.06	108.11	120.20
227	VA	12	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	1138	DG	P-O3'-C3'	-8.06	108.12	120.20
11	AB	1641	DG	P-O3'-C3'	-8.06	108.11	120.20
11	AB	1821	DG	P-O3'-C3'	-8.06	108.12	120.20
16	B3	18	DG	P-O3'-C3'	-8.06	108.11	120.20
24	BC	34	DG	P-O3'-C3'	-8.06	108.12	120.20
11	AB	361	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	1589	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	2766	DG	P-O3'-C3'	-8.05	108.12	120.20
119	K7	29	DG	P-O3'-C3'	-8.05	108.12	120.20
204	T3	44	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	1910	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	3409	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	4745	DG	P-O3'-C3'	-8.05	108.12	120.20
95	I5	34	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	4753	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	6982	DG	P-O3'-C3'	-8.05	108.12	120.20
42	D7	4	DG	P-O3'-C3'	-8.05	108.12	120.20
96	I6	10	DG	P-O3'-C3'	-8.05	108.12	120.20
130	L7	30	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	213	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	330	DG	P-O3'-C3'	-8.05	108.12	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1228	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	3766	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	970	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	1461	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	1724	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	2239	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	3252	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	3743	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	4355	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	6765	DG	P-O3'-C3'	-8.05	108.12	120.20
14	B1	3	DG	P-O3'-C3'	-8.05	108.12	120.20
31	C7	3	DG	P-O3'-C3'	-8.05	108.12	120.20
35	CC	28	DG	P-O3'-C3'	-8.05	108.12	120.20
70	G1	16	DG	P-O3'-C3'	-8.05	108.12	120.20
11	AB	910	DG	P-O3'-C3'	-8.05	108.13	120.20
11	AB	1114	DG	P-O3'-C3'	-8.05	108.13	120.20
11	AB	2157	DG	P-O3'-C3'	-8.05	108.13	120.20
11	AB	2456	DG	P-O3'-C3'	-8.05	108.13	120.20
11	AB	6842	DG	P-O3'-C3'	-8.05	108.13	120.20
72	G3	20	DG	P-O3'-C3'	-8.05	108.13	120.20
64	F7	15	DG	P-O3'-C3'	-8.05	108.13	120.20
219	UC	8	DG	P-O3'-C3'	-8.05	108.13	120.20
1	A1	29	DG	P-O3'-C3'	-8.04	108.13	120.20
6	A6	23	DG	P-O3'-C3'	-8.04	108.13	120.20
11	AB	3044	DG	P-O3'-C3'	-8.04	108.13	120.20
11	AB	3232	DG	P-O3'-C3'	-8.04	108.13	120.20
11	AB	3307	DG	P-O3'-C3'	-8.05	108.13	120.20
11	AB	3731	DG	P-O3'-C3'	-8.04	108.13	120.20
11	AB	6499	DG	P-O3'-C3'	-8.04	108.14	120.20
30	C6	3	DG	P-O3'-C3'	-8.04	108.13	120.20
131	L8	27	DG	P-O3'-C3'	-8.04	108.13	120.20
153	NA	7	DG	P-O3'-C3'	-8.04	108.13	120.20
188	R7	10	DG	P-O3'-C3'	-8.04	108.14	120.20
11	AB	4315	DG	P-O3'-C3'	-8.04	108.14	120.20
2	A2	26	DG	P-O3'-C3'	-8.04	108.14	120.20
11	AB	1739	DG	P-O3'-C3'	-8.04	108.14	120.20
11	AB	6279	DG	P-O3'-C3'	-8.04	108.14	120.20
234	W9	8	DG	P-O3'-C3'	-8.04	108.14	120.20
11	AB	3314	DG	P-O3'-C3'	-8.04	108.14	120.20
11	AB	3739	DG	P-O3'-C3'	-8.04	108.14	120.20
11	AB	3866	DG	P-O3'-C3'	-8.04	108.14	120.20
11	AB	4068	DG	P-O3'-C3'	-8.04	108.14	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4993	DG	P-O3'-C3'	-8.04	108.14	120.20
11	AB	6883	DG	P-O3'-C3'	-8.04	108.14	120.20
51	E5	8	DG	P-O3'-C3'	-8.04	108.14	120.20
226	V9	16	DG	P-O3'-C3'	-8.04	108.14	120.20
11	AB	38	DG	P-O3'-C3'	-8.04	108.14	120.20
11	AB	1481	DG	P-O3'-C3'	-8.04	108.14	120.20
11	AB	3069	DG	P-O3'-C3'	-8.04	108.14	120.20
11	AB	3629	DG	P-O3'-C3'	-8.04	108.14	120.20
74	G6	33	DG	P-O3'-C3'	-8.04	108.14	120.20
116	K3	10	DG	P-O3'-C3'	-8.04	108.14	120.20
11	AB	801	DG	P-O3'-C3'	-8.04	108.15	120.20
11	AB	1443	DG	P-O3'-C3'	-8.04	108.15	120.20
11	AB	289	DG	P-O3'-C3'	-8.03	108.15	120.20
11	AB	476	DG	P-O3'-C3'	-8.04	108.15	120.20
11	AB	2656	DG	P-O3'-C3'	-8.04	108.15	120.20
63	F6	17	DG	P-O3'-C3'	-8.04	108.15	120.20
64	F7	20	DG	P-O3'-C3'	-8.03	108.15	120.20
82	H2	36	DG	P-O3'-C3'	-8.04	108.15	120.20
11	AB	9	DG	P-O3'-C3'	-8.03	108.15	120.20
194	S2	25	DG	P-O3'-C3'	-8.03	108.15	120.20
11	AB	1902	DG	P-O3'-C3'	-8.03	108.15	120.20
11	AB	3890	DG	P-O3'-C3'	-8.03	108.16	120.20
161	O8	6	DG	P-O3'-C3'	-8.03	108.16	120.20
11	AB	2038	DG	P-O3'-C3'	-8.03	108.16	120.20
11	AB	4834	DG	P-O3'-C3'	-8.03	108.16	120.20
11	AB	1391	DG	P-O3'-C3'	-8.03	108.16	120.20
74	G6	9	DG	P-O3'-C3'	-8.03	108.16	120.20
221	V2	7	DG	P-O3'-C3'	-8.02	108.17	120.20
11	AB	310	DG	P-O3'-C3'	-8.02	108.17	120.20
11	AB	1275	DG	P-O3'-C3'	-8.02	108.18	120.20
11	AB	6458	DG	P-O3'-C3'	-8.01	108.19	120.20
178	Q5	24	DG	P-O3'-C3'	-8.01	108.19	120.20
11	AB	868	DG	P-O3'-C3'	-7.99	108.22	120.20
11	AB	898	DG	P-O3'-C3'	-7.96	108.25	120.20
11	AB	7197	DG	P-O3'-C3'	-7.96	108.25	120.20
11	AB	3458	DG	P-O3'-C3'	-7.91	108.33	120.20
11	AB	6912	DG	P-O3'-C3'	-7.88	108.38	120.20
11	AB	445	DG	P-O3'-C3'	-7.88	108.38	120.20
11	AB	2734	DG	P-O3'-C3'	-7.87	108.39	120.20
11	AB	4161	DT	P-O3'-C3'	-7.80	108.49	120.20
11	AB	717	DT	P-O3'-C3'	-7.80	108.50	120.20
11	AB	1615	DT	P-O3'-C3'	-7.79	108.51	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1425	DT	P-O3'-C3'	-7.79	108.51	120.20
11	AB	3300	DT	P-O3'-C3'	-7.79	108.52	120.20
11	AB	3644	DT	P-O3'-C3'	-7.78	108.53	120.20
11	AB	4173	DT	P-O3'-C3'	-7.78	108.53	120.20
11	AB	6039	DT	P-O3'-C3'	-7.78	108.53	120.20
34	CA	14	DT	P-O3'-C3'	-7.78	108.53	120.20
89	HA	31	DT	P-O3'-C3'	-7.78	108.53	120.20
121	K9	6	DT	P-O3'-C3'	-7.78	108.53	120.20
20	B7	16	DT	P-O3'-C3'	-7.78	108.53	120.20
156	O2	1	DT	P-O3'-C3'	-7.78	108.53	120.20
11	AB	1225	DT	P-O3'-C3'	-7.78	108.54	120.20
11	AB	3055	DT	P-O3'-C3'	-7.78	108.53	120.20
11	AB	3717	DT	P-O3'-C3'	-7.78	108.54	120.20
11	AB	4447	DT	P-O3'-C3'	-7.78	108.54	120.20
55	E9	24	DT	P-O3'-C3'	-7.77	108.54	120.20
11	AB	2316	DT	P-O3'-C3'	-7.77	108.54	120.20
11	AB	7010	DT	P-O3'-C3'	-7.77	108.54	120.20
208	T9	17	DT	P-O3'-C3'	-7.77	108.54	120.20
11	AB	356	DT	P-O3'-C3'	-7.77	108.55	120.20
11	AB	5676	DT	P-O3'-C3'	-7.77	108.55	120.20
62	F5	13	DT	P-O3'-C3'	-7.77	108.55	120.20
11	AB	1419	DT	P-O3'-C3'	-7.77	108.55	120.20
11	AB	6192	DT	P-O3'-C3'	-7.77	108.55	120.20
11	AB	7119	DT	P-O3'-C3'	-7.77	108.55	120.20
130	L7	31	DT	P-O3'-C3'	-7.77	108.55	120.20
11	AB	1254	DT	P-O3'-C3'	-7.77	108.55	120.20
11	AB	7130	DT	P-O3'-C3'	-7.77	108.55	120.20
92	I1	7	DT	P-O3'-C3'	-7.77	108.55	120.20
7	A7	40	DT	P-O3'-C3'	-7.76	108.55	120.20
11	AB	2739	DT	P-O3'-C3'	-7.76	108.55	120.20
11	AB	6550	DT	P-O3'-C3'	-7.76	108.55	120.20
52	E6	25	DT	P-O3'-C3'	-7.76	108.55	120.20
159	O6	15	DT	P-O3'-C3'	-7.76	108.55	120.20
210	TC	7	DT	P-O3'-C3'	-7.76	108.55	120.20
215	U7	6	DT	P-O3'-C3'	-7.76	108.55	120.20
11	AB	960	DT	P-O3'-C3'	-7.76	108.56	120.20
11	AB	4040	DT	P-O3'-C3'	-7.76	108.56	120.20
11	AB	6484	DT	P-O3'-C3'	-7.76	108.56	120.20
118	K6	14	DT	P-O3'-C3'	-7.76	108.56	120.20
11	AB	777	DT	P-O3'-C3'	-7.76	108.56	120.20
11	AB	2236	DT	P-O3'-C3'	-7.76	108.56	120.20
11	AB	2445	DT	P-O3'-C3'	-7.76	108.56	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4505	DT	P-O3'-C3'	-7.76	108.56	120.20
11	AB	4985	DT	P-O3'-C3'	-7.76	108.56	120.20
11	AB	5632	DT	P-O3'-C3'	-7.76	108.56	120.20
11	AB	6722	DT	P-O3'-C3'	-7.76	108.56	120.20
31	C7	16	DT	P-O3'-C3'	-7.76	108.56	120.20
98	I8	20	DT	P-O3'-C3'	-7.76	108.56	120.20
131	L8	6	DT	P-O3'-C3'	-7.76	108.56	120.20
164	OC	19	DT	P-O3'-C3'	-7.76	108.56	120.20
217	U9	15	DT	P-O3'-C3'	-7.76	108.56	120.20
7	A7	36	DT	P-O3'-C3'	-7.76	108.56	120.20
11	AB	2743	DT	P-O3'-C3'	-7.76	108.56	120.20
11	AB	6465	DT	P-O3'-C3'	-7.76	108.56	120.20
82	H2	11	DT	P-O3'-C3'	-7.76	108.56	120.20
93	I2	39	DT	P-O3'-C3'	-7.76	108.56	120.20
11	AB	1099	DT	P-O3'-C3'	-7.76	108.56	120.20
11	AB	3295	DT	P-O3'-C3'	-7.76	108.56	120.20
11	AB	4405	DT	P-O3'-C3'	-7.76	108.56	120.20
83	H3	14	DT	P-O3'-C3'	-7.76	108.57	120.20
147	N3	33	DT	P-O3'-C3'	-7.76	108.56	120.20
194	S2	21	DT	P-O3'-C3'	-7.76	108.57	120.20
204	T3	40	DT	P-O3'-C3'	-7.76	108.56	120.20
5	A5	6	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	80	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	1467	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	1645	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	6111	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	75	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	1075	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	1601	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	2905	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	3262	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	3962	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	4825	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	5396	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	6502	DT	P-O3'-C3'	-7.75	108.57	120.20
39	D3	12	DT	P-O3'-C3'	-7.75	108.57	120.20
114	K1	41	DT	P-O3'-C3'	-7.75	108.57	120.20
220	UD	17	DT	P-O3'-C3'	-7.75	108.57	120.20
221	V2	18	DT	P-O3'-C3'	-7.75	108.57	120.20
7	A7	22	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	116	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	772	DT	P-O3'-C3'	-7.75	108.57	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1737	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	2923	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	4043	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	4396	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	5173	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	6839	DT	P-O3'-C3'	-7.75	108.57	120.20
72	G3	12	DT	P-O3'-C3'	-7.75	108.57	120.20
84	H5	37	DT	P-O3'-C3'	-7.75	108.57	120.20
103	J1	22	DT	P-O3'-C3'	-7.75	108.57	120.20
134	LC	20	DT	P-O3'-C3'	-7.75	108.57	120.20
177	Q3	17	DT	P-O3'-C3'	-7.75	108.57	120.20
178	Q5	36	DT	P-O3'-C3'	-7.75	108.57	120.20
187	R5	15	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	1886	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	3046	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	3589	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	4460	DT	P-O3'-C3'	-7.75	108.57	120.20
11	AB	518	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	1447	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	1477	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	1742	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	3911	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	4882	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	5217	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	5281	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	5721	DT	P-O3'-C3'	-7.75	108.58	120.20
23	BA	7	DT	P-O3'-C3'	-7.75	108.58	120.20
34	CA	18	DT	P-O3'-C3'	-7.75	108.58	120.20
62	F5	42	DT	P-O3'-C3'	-7.75	108.58	120.20
129	L6	20	DT	P-O3'-C3'	-7.75	108.58	120.20
164	OC	5	DT	P-O3'-C3'	-7.75	108.58	120.20
171	P8	26	DT	P-O3'-C3'	-7.75	108.58	120.20
204	T3	12	DT	P-O3'-C3'	-7.75	108.58	120.20
10	AA	7	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	757	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	966	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	1585	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	2528	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	3640	DT	P-O3'-C3'	-7.75	108.58	120.20
36	CD	22	DT	P-O3'-C3'	-7.75	108.58	120.20
54	E8	14	DT	P-O3'-C3'	-7.75	108.58	120.20
127	L3	10	DT	P-O3'-C3'	-7.75	108.58	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
179	Q7	17	DT	P-O3'-C3'	-7.75	108.58	120.20
186	R3	14	DT	P-O3'-C3'	-7.75	108.58	120.20
197	S7	19	DT	P-O3'-C3'	-7.75	108.58	120.20
213	U3	3	DT	P-O3'-C3'	-7.75	108.58	120.20
218	UA	9	DT	P-O3'-C3'	-7.75	108.58	120.20
226	V9	17	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	847	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	876	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	2612	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	3732	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	6353	DT	P-O3'-C3'	-7.75	108.58	120.20
95	I5	6	DT	P-O3'-C3'	-7.75	108.58	120.20
203	T2	23	DT	P-O3'-C3'	-7.75	108.58	120.20
11	AB	394	DT	P-O3'-C3'	-7.74	108.58	120.20
11	AB	2058	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	2461	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	3559	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	3625	DT	P-O3'-C3'	-7.74	108.58	120.20
11	AB	4346	DT	P-O3'-C3'	-7.74	108.58	120.20
11	AB	6052	DT	P-O3'-C3'	-7.74	108.58	120.20
11	AB	6532	DT	P-O3'-C3'	-7.74	108.58	120.20
11	AB	6546	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	7116	DT	P-O3'-C3'	-7.74	108.59	120.20
14	B1	4	DT	P-O3'-C3'	-7.74	108.58	120.20
33	C9	18	DT	P-O3'-C3'	-7.74	108.59	120.20
94	I3	13	DT	P-O3'-C3'	-7.74	108.59	120.20
130	L7	24	DT	P-O3'-C3'	-7.74	108.59	120.20
153	NA	8	DT	P-O3'-C3'	-7.74	108.58	120.20
160	O7	44	DT	P-O3'-C3'	-7.74	108.58	120.20
166	P2	23	DT	P-O3'-C3'	-7.74	108.58	120.20
183	QC	6	DT	P-O3'-C3'	-7.74	108.59	120.20
187	R5	40	DT	P-O3'-C3'	-7.74	108.58	120.20
208	T9	14	DT	P-O3'-C3'	-7.74	108.58	120.20
211	TD	29	DT	P-O3'-C3'	-7.74	108.59	120.20
214	U5	2	DT	P-O3'-C3'	-7.74	108.58	120.20
230	W3	45	DT	P-O3'-C3'	-7.74	108.58	120.20
232	W7	16	DT	P-O3'-C3'	-7.74	108.58	120.20
11	AB	1250	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	2024	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	2691	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	2769	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	3527	DT	P-O3'-C3'	-7.74	108.59	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3967	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	4000	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	5450	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	6851	DT	P-O3'-C3'	-7.74	108.59	120.20
37	D1	27	DT	P-O3'-C3'	-7.74	108.59	120.20
67	FA	11	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	166	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	511	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	671	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	1580	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	1599	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	1661	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	2276	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	2635	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	3109	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	3112	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	3210	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	3253	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	3268	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	3949	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	4166	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	4182	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	5032	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	5105	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	6785	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	6796	DT	P-O3'-C3'	-7.74	108.59	120.20
26	C1	13	DT	P-O3'-C3'	-7.74	108.59	120.20
49	E2	12	DT	P-O3'-C3'	-7.74	108.59	120.20
59	F1	6	DT	P-O3'-C3'	-7.74	108.59	120.20
91	HD	27	DT	P-O3'-C3'	-7.74	108.59	120.20
133	LA	14	DT	P-O3'-C3'	-7.74	108.59	120.20
147	N3	16	DT	P-O3'-C3'	-7.74	108.59	120.20
161	O8	15	DT	P-O3'-C3'	-7.74	108.59	120.20
7	A7	5	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	195	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	234	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	447	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	1265	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	2210	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	2649	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	3601	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	4204	DT	P-O3'-C3'	-7.74	108.59	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4728	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	5944	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	6133	DT	P-O3'-C3'	-7.74	108.59	120.20
23	BA	26	DT	P-O3'-C3'	-7.74	108.59	120.20
79	GC	1	DT	P-O3'-C3'	-7.74	108.59	120.20
100	IA	7	DT	P-O3'-C3'	-7.74	108.59	120.20
120	K8	1	DT	P-O3'-C3'	-7.74	108.59	120.20
140	M7	1	DT	P-O3'-C3'	-7.74	108.59	120.20
145	MD	3	DT	P-O3'-C3'	-7.74	108.59	120.20
145	MD	21	DT	P-O3'-C3'	-7.74	108.59	120.20
176	Q2	10	DT	P-O3'-C3'	-7.74	108.59	120.20
179	Q7	5	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	720	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	3318	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	4501	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	5545	DT	P-O3'-C3'	-7.74	108.59	120.20
59	F1	12	DT	P-O3'-C3'	-7.74	108.59	120.20
91	HD	10	DT	P-O3'-C3'	-7.74	108.59	120.20
145	MD	11	DT	P-O3'-C3'	-7.74	108.59	120.20
149	N6	10	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	287	DT	P-O3'-C3'	-7.74	108.60	120.20
11	AB	1246	DT	P-O3'-C3'	-7.74	108.60	120.20
11	AB	1491	DT	P-O3'-C3'	-7.74	108.60	120.20
11	AB	2204	DT	P-O3'-C3'	-7.74	108.60	120.20
11	AB	2480	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	2553	DT	P-O3'-C3'	-7.74	108.60	120.20
11	AB	2608	DT	P-O3'-C3'	-7.74	108.60	120.20
11	AB	2646	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	3186	DT	P-O3'-C3'	-7.74	108.60	120.20
11	AB	3342	DT	P-O3'-C3'	-7.74	108.60	120.20
11	AB	3511	DT	P-O3'-C3'	-7.74	108.59	120.20
11	AB	4435	DT	P-O3'-C3'	-7.74	108.60	120.20
11	AB	5453	DT	P-O3'-C3'	-7.74	108.60	120.20
11	AB	5510	DT	P-O3'-C3'	-7.74	108.60	120.20
11	AB	5925	DT	P-O3'-C3'	-7.74	108.60	120.20
11	AB	6283	DT	P-O3'-C3'	-7.74	108.60	120.20
11	AB	6902	DT	P-O3'-C3'	-7.74	108.60	120.20
14	B1	40	DT	P-O3'-C3'	-7.74	108.60	120.20
23	BA	14	DT	P-O3'-C3'	-7.74	108.60	120.20
51	E5	5	DT	P-O3'-C3'	-7.74	108.60	120.20
54	E8	33	DT	P-O3'-C3'	-7.74	108.60	120.20
61	F3	3	DT	P-O3'-C3'	-7.74	108.59	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
64	F7	21	DT	P-O3'-C3'	-7.74	108.60	120.20
82	H2	7	DT	P-O3'-C3'	-7.74	108.60	120.20
101	IC	26	DT	P-O3'-C3'	-7.74	108.60	120.20
128	L5	2	DT	P-O3'-C3'	-7.74	108.59	120.20
180	Q8	15	DT	P-O3'-C3'	-7.74	108.60	120.20
202	SD	22	DT	P-O3'-C3'	-7.74	108.60	120.20
235	WD	21	DT	P-O3'-C3'	-7.74	108.60	120.20
11	AB	1473	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	3940	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	3942	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	4171	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	4320	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	4811	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	6061	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	6854	DT	P-O3'-C3'	-7.73	108.60	120.20
149	N6	38	DT	P-O3'-C3'	-7.73	108.60	120.20
204	T3	27	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	311	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	417	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	903	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	3453	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	3615	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	3748	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	4339	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	4367	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	5094	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	5460	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	5477	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	5700	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	5788	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	5959	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	6138	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	6144	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	6240	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	7148	DT	P-O3'-C3'	-7.73	108.60	120.20
56	EA	17	DT	P-O3'-C3'	-7.73	108.60	120.20
114	K1	23	DT	P-O3'-C3'	-7.73	108.60	120.20
137	M3	28	DT	P-O3'-C3'	-7.73	108.60	120.20
140	M7	5	DT	P-O3'-C3'	-7.73	108.60	120.20
149	N6	41	DT	P-O3'-C3'	-7.73	108.60	120.20
189	R8	34	DT	P-O3'-C3'	-7.73	108.60	120.20
208	T9	20	DT	P-O3'-C3'	-7.73	108.60	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
215	U7	17	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	6	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	173	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	470	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	520	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	1625	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	1800	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	2207	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	2250	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	2318	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	2651	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	3075	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	3711	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	4593	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	4734	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	4933	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	5530	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	5698	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	5935	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	6201	DT	P-O3'-C3'	-7.73	108.60	120.20
11	AB	7171	DT	P-O3'-C3'	-7.73	108.61	120.20
21	B8	7	DT	P-O3'-C3'	-7.73	108.60	120.20
21	B8	19	DT	P-O3'-C3'	-7.73	108.60	120.20
73	G5	4	DT	P-O3'-C3'	-7.73	108.61	120.20
98	I8	11	DT	P-O3'-C3'	-7.73	108.60	120.20
117	K5	45	DT	P-O3'-C3'	-7.73	108.60	120.20
127	L3	18	DT	P-O3'-C3'	-7.73	108.61	120.20
142	M9	17	DT	P-O3'-C3'	-7.73	108.60	120.20
144	MC	18	DT	P-O3'-C3'	-7.73	108.61	120.20
161	O8	49	DT	P-O3'-C3'	-7.73	108.60	120.20
210	TC	15	DT	P-O3'-C3'	-7.73	108.61	120.20
232	W7	21	DT	P-O3'-C3'	-7.73	108.60	120.20
1	A1	51	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	197	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	494	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	533	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	2914	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	3451	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	5758	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	6106	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	6181	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	6195	DT	P-O3'-C3'	-7.73	108.61	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
155	ND	4	DT	P-O3'-C3'	-7.73	108.61	120.20
5	A5	33	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	33	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	575	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	1122	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	1464	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	1713	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	3063	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	3411	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	3523	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	3646	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	4394	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	4695	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	5375	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	7167	DT	P-O3'-C3'	-7.73	108.61	120.20
26	C1	24	DT	P-O3'-C3'	-7.73	108.61	120.20
33	C9	3	DT	P-O3'-C3'	-7.73	108.61	120.20
48	E1	1	DT	P-O3'-C3'	-7.73	108.61	120.20
126	L2	18	DT	P-O3'-C3'	-7.73	108.61	120.20
148	N5	13	DT	P-O3'-C3'	-7.73	108.61	120.20
179	Q7	11	DT	P-O3'-C3'	-7.73	108.61	120.20
232	W7	24	DT	P-O3'-C3'	-7.73	108.61	120.20
234	W9	9	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	249	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	1173	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	1555	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	1694	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	2842	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	6104	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	6358	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	6707	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	6725	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	6791	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	6865	DT	P-O3'-C3'	-7.73	108.61	120.20
49	E2	18	DT	P-O3'-C3'	-7.73	108.61	120.20
58	ED	10	DT	P-O3'-C3'	-7.73	108.61	120.20
72	G3	18	DT	P-O3'-C3'	-7.73	108.61	120.20
205	T5	19	DT	P-O3'-C3'	-7.73	108.61	120.20
11	AB	57	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	145	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	563	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	1047	DT	P-O3'-C3'	-7.72	108.61	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1498	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	1894	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	2412	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	2534	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	2787	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	2853	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	2875	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	2937	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	2971	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	3236	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	4158	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	5404	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	5470	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	5917	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	6429	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	6612	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	6885	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	7020	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	7140	DT	P-O3'-C3'	-7.72	108.61	120.20
84	H5	30	DT	P-O3'-C3'	-7.72	108.61	120.20
99	I9	15	DT	P-O3'-C3'	-7.72	108.61	120.20
130	L7	20	DT	P-O3'-C3'	-7.72	108.61	120.20
148	N5	10	DT	P-O3'-C3'	-7.72	108.61	120.20
158	O5	40	DT	P-O3'-C3'	-7.72	108.61	120.20
178	Q5	11	DT	P-O3'-C3'	-7.72	108.61	120.20
180	Q8	20	DT	P-O3'-C3'	-7.72	108.61	120.20
193	RD	18	DT	P-O3'-C3'	-7.72	108.61	120.20
195	S3	13	DT	P-O3'-C3'	-7.72	108.61	120.20
231	W5	15	DT	P-O3'-C3'	-7.72	108.61	120.20
3	A3	11	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	39	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	604	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	611	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	2252	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	2610	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	2880	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	3084	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	3662	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	3694	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	4152	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	4545	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	4641	DT	P-O3'-C3'	-7.72	108.61	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5378	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	6185	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	6689	DT	P-O3'-C3'	-7.72	108.61	120.20
11	AB	6995	DT	P-O3'-C3'	-7.72	108.62	120.20
58	ED	35	DT	P-O3'-C3'	-7.72	108.62	120.20
82	H2	28	DT	P-O3'-C3'	-7.72	108.61	120.20
82	H2	33	DT	P-O3'-C3'	-7.72	108.62	120.20
93	I2	47	DT	P-O3'-C3'	-7.72	108.62	120.20
186	R3	17	DT	P-O3'-C3'	-7.72	108.62	120.20
1	A1	30	DT	P-O3'-C3'	-7.72	108.62	120.20
6	A6	15	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	585	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	918	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	1184	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	1656	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	1690	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	1832	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	2099	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	2397	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	3144	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	3974	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	6382	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	6720	DT	P-O3'-C3'	-7.72	108.62	120.20
51	E5	9	DT	P-O3'-C3'	-7.72	108.62	120.20
111	JA	16	DT	P-O3'-C3'	-7.72	108.62	120.20
166	P2	19	DT	P-O3'-C3'	-7.72	108.62	120.20
200	SA	24	DT	P-O3'-C3'	-7.72	108.62	120.20
238	X9	32	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	377	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	593	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	1167	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	2845	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	3826	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	4286	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	4385	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	6271	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	6477	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	6570	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	6644	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	7053	DT	P-O3'-C3'	-7.72	108.62	120.20
30	C6	13	DT	P-O3'-C3'	-7.72	108.62	120.20
35	CC	14	DT	P-O3'-C3'	-7.72	108.62	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	D3	7	DT	P-O3'-C3'	-7.72	108.62	120.20
79	GC	15	DT	P-O3'-C3'	-7.72	108.62	120.20
93	I2	8	DT	P-O3'-C3'	-7.72	108.62	120.20
117	K5	12	DT	P-O3'-C3'	-7.72	108.62	120.20
145	MD	26	DT	P-O3'-C3'	-7.72	108.62	120.20
187	R5	32	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	190	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	1672	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	1692	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	2424	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	2657	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	3283	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	4254	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	4978	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	6910	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	7137	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	7185	DT	P-O3'-C3'	-7.72	108.62	120.20
82	H2	17	DT	P-O3'-C3'	-7.72	108.62	120.20
83	H3	27	DT	P-O3'-C3'	-7.72	108.62	120.20
107	J6	26	DT	P-O3'-C3'	-7.72	108.62	120.20
125	L1	19	DT	P-O3'-C3'	-7.72	108.62	120.20
138	M5	29	DT	P-O3'-C3'	-7.72	108.62	120.20
209	TA	40	DT	P-O3'-C3'	-7.72	108.62	120.20
228	VC	17	DT	P-O3'-C3'	-7.72	108.62	120.20
238	X9	11	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	842	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	1903	DT	P-O3'-C3'	-7.72	108.63	120.20
11	AB	2935	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	3858	DT	P-O3'-C3'	-7.72	108.62	120.20
11	AB	5983	DT	P-O3'-C3'	-7.72	108.63	120.20
11	AB	6979	DT	P-O3'-C3'	-7.72	108.63	120.20
17	B4	19	DT	P-O3'-C3'	-7.72	108.63	120.20
30	C6	10	DT	P-O3'-C3'	-7.72	108.62	120.20
32	C8	43	DT	P-O3'-C3'	-7.72	108.62	120.20
70	G1	13	DT	P-O3'-C3'	-7.72	108.62	120.20
103	J1	16	DT	P-O3'-C3'	-7.72	108.62	120.20
120	K8	20	DT	P-O3'-C3'	-7.72	108.63	120.20
161	O8	42	DT	P-O3'-C3'	-7.72	108.63	120.20
167	P3	15	DT	P-O3'-C3'	-7.72	108.62	120.20
209	TA	20	DT	P-O3'-C3'	-7.72	108.62	120.20
231	W5	31	DT	P-O3'-C3'	-7.72	108.63	120.20
4	A4	16	DT	P-O3'-C3'	-7.71	108.63	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	825	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	1333	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	1510	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	1925	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	2151	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	3002	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	3762	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	3989	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	4192	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	5097	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	5565	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	5590	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	6081	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	6334	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	6394	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	6741	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	6914	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	6960	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	6977	DT	P-O3'-C3'	-7.71	108.63	120.20
14	B1	37	DT	P-O3'-C3'	-7.71	108.63	120.20
19	B6	21	DT	P-O3'-C3'	-7.71	108.63	120.20
43	D8	19	DT	P-O3'-C3'	-7.71	108.63	120.20
65	F8	5	DT	P-O3'-C3'	-7.71	108.63	120.20
119	K7	7	DT	P-O3'-C3'	-7.71	108.63	120.20
139	M6	9	DT	P-O3'-C3'	-7.71	108.63	120.20
163	OA	13	DT	P-O3'-C3'	-7.71	108.63	120.20
167	P3	7	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	888	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	933	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	1352	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	1654	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	2672	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	4210	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	4918	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	5100	DT	P-O3'-C3'	-7.71	108.63	120.20
107	J6	6	DT	P-O3'-C3'	-7.71	108.63	120.20
158	O5	47	DT	P-O3'-C3'	-7.71	108.63	120.20
209	TA	3	DT	P-O3'-C3'	-7.71	108.63	120.20
214	U5	25	DT	P-O3'-C3'	-7.71	108.63	120.20
230	W3	5	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	625	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	1561	DT	P-O3'-C3'	-7.71	108.63	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1992	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	3139	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	4543	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	4835	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	5197	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	6313	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	6687	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	7204	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	7226	DT	P-O3'-C3'	-7.71	108.63	120.20
100	IA	20	DT	P-O3'-C3'	-7.71	108.63	120.20
128	L5	13	DT	P-O3'-C3'	-7.71	108.63	120.20
156	O2	22	DT	P-O3'-C3'	-7.71	108.63	120.20
163	OA	17	DT	P-O3'-C3'	-7.71	108.63	120.20
187	R5	30	DT	P-O3'-C3'	-7.71	108.63	120.20
223	V5	24	DT	P-O3'-C3'	-7.71	108.63	120.20
237	X7	11	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	51	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	1305	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	3564	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	3903	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	6534	DT	P-O3'-C3'	-7.71	108.63	120.20
11	AB	6806	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	7076	DT	P-O3'-C3'	-7.71	108.64	120.20
72	G3	9	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	569	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	1229	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	1386	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	3834	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	4147	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	4941	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	5077	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	5508	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	6275	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	6277	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	6409	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	6525	DT	P-O3'-C3'	-7.71	108.64	120.20
22	B9	19	DT	P-O3'-C3'	-7.71	108.64	120.20
36	CD	8	DT	P-O3'-C3'	-7.71	108.64	120.20
45	DA	6	DT	P-O3'-C3'	-7.71	108.64	120.20
64	F7	16	DT	P-O3'-C3'	-7.71	108.64	120.20
149	N6	6	DT	P-O3'-C3'	-7.71	108.64	120.20
184	QD	22	DT	P-O3'-C3'	-7.71	108.64	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
192	RC	26	DT	P-O3'-C3'	-7.71	108.64	120.20
209	TA	23	DT	P-O3'-C3'	-7.71	108.64	120.20
224	V7	14	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	201	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	573	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	1108	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	1547	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	1636	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	2026	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	2108	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	3494	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	5158	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	5601	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	6076	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	6579	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	7181	DT	P-O3'-C3'	-7.71	108.64	120.20
62	F5	32	DT	P-O3'-C3'	-7.71	108.64	120.20
109	J8	17	DT	P-O3'-C3'	-7.71	108.64	120.20
223	V5	4	DT	P-O3'-C3'	-7.71	108.64	120.20
226	V9	12	DT	P-O3'-C3'	-7.71	108.64	120.20
230	W3	30	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	812	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	1276	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	1524	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	3345	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	3920	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	5479	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	6711	DT	P-O3'-C3'	-7.71	108.64	120.20
55	E9	16	DT	P-O3'-C3'	-7.71	108.64	120.20
178	Q5	21	DT	P-O3'-C3'	-7.71	108.64	120.20
219	UC	23	DT	P-O3'-C3'	-7.71	108.64	120.20
11	AB	587	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	1871	DT	P-O3'-C3'	-7.70	108.64	120.20
11	AB	1931	DT	P-O3'-C3'	-7.70	108.64	120.20
11	AB	2453	DT	P-O3'-C3'	-7.70	108.64	120.20
11	AB	2663	DT	P-O3'-C3'	-7.70	108.64	120.20
11	AB	2683	DT	P-O3'-C3'	-7.70	108.64	120.20
11	AB	2836	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	5940	DT	P-O3'-C3'	-7.70	108.64	120.20
13	AD	8	DT	P-O3'-C3'	-7.70	108.64	120.20
18	B5	1	DT	P-O3'-C3'	-7.70	108.64	120.20
18	B5	36	DT	P-O3'-C3'	-7.70	108.64	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	CD	25	DT	P-O3'-C3'	-7.70	108.64	120.20
57	EC	1	DT	P-O3'-C3'	-7.70	108.64	120.20
62	F5	6	DT	P-O3'-C3'	-7.70	108.65	120.20
156	O2	4	DT	P-O3'-C3'	-7.70	108.64	120.20
172	P9	24	DT	P-O3'-C3'	-7.70	108.64	120.20
207	T8	20	DT	P-O3'-C3'	-7.70	108.64	120.20
11	AB	185	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	1071	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	4805	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	7238	DT	P-O3'-C3'	-7.70	108.65	120.20
165	OD	43	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	1206	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	2991	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	3158	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	3630	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	4230	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	4828	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	5139	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	5528	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	6156	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	6215	DT	P-O3'-C3'	-7.70	108.65	120.20
64	F7	6	DT	P-O3'-C3'	-7.70	108.65	120.20
75	G7	14	DT	P-O3'-C3'	-7.70	108.65	120.20
93	I2	4	DT	P-O3'-C3'	-7.70	108.65	120.20
146	N2	4	DT	P-O3'-C3'	-7.70	108.65	120.20
149	N6	31	DT	P-O3'-C3'	-7.70	108.65	120.20
167	P3	34	DT	P-O3'-C3'	-7.70	108.65	120.20
171	P8	10	DT	P-O3'-C3'	-7.70	108.65	120.20
191	RA	24	DT	P-O3'-C3'	-7.70	108.65	120.20
211	TD	37	DT	P-O3'-C3'	-7.70	108.65	120.20
233	W8	7	DT	P-O3'-C3'	-7.70	108.65	120.20
3	A3	1	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	836	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	1435	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	3271	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	3792	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	4301	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	4614	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	5662	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	6411	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	6432	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	6947	DT	P-O3'-C3'	-7.70	108.65	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	DA	24	DT	P-O3'-C3'	-7.70	108.65	120.20
47	DD	7	DT	P-O3'-C3'	-7.70	108.65	120.20
108	J7	27	DT	P-O3'-C3'	-7.70	108.65	120.20
135	LD	16	DT	P-O3'-C3'	-7.70	108.65	120.20
194	S2	1	DT	P-O3'-C3'	-7.70	108.65	120.20
220	UD	12	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	4198	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	6604	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	6818	DT	P-O3'-C3'	-7.70	108.65	120.20
11	AB	4218	DT	P-O3'-C3'	-7.70	108.66	120.20
11	AB	4595	DT	P-O3'-C3'	-7.70	108.66	120.20
11	AB	4691	DT	P-O3'-C3'	-7.70	108.66	120.20
101	IC	16	DT	P-O3'-C3'	-7.70	108.66	120.20
104	J2	31	DT	P-O3'-C3'	-7.70	108.66	120.20
161	O8	37	DT	P-O3'-C3'	-7.70	108.66	120.20
11	AB	2265	DT	P-O3'-C3'	-7.69	108.66	120.20
11	AB	3120	DT	P-O3'-C3'	-7.69	108.66	120.20
11	AB	3165	DT	P-O3'-C3'	-7.69	108.66	120.20
150	N7	8	DT	P-O3'-C3'	-7.69	108.66	120.20
220	UD	5	DT	P-O3'-C3'	-7.69	108.66	120.20
11	AB	710	DT	P-O3'-C3'	-7.69	108.66	120.20
11	AB	822	DT	P-O3'-C3'	-7.69	108.66	120.20
11	AB	6938	DT	P-O3'-C3'	-7.69	108.66	120.20
21	B8	10	DT	P-O3'-C3'	-7.69	108.66	120.20
122	KA	17	DT	P-O3'-C3'	-7.69	108.66	120.20
128	L5	5	DT	P-O3'-C3'	-7.69	108.66	120.20
151	N8	8	DT	P-O3'-C3'	-7.69	108.66	120.20
171	P8	6	DT	P-O3'-C3'	-7.69	108.66	120.20
197	S7	14	DT	P-O3'-C3'	-7.69	108.66	120.20
11	AB	948	DT	P-O3'-C3'	-7.69	108.66	120.20
11	AB	1912	DT	P-O3'-C3'	-7.69	108.66	120.20
11	AB	3829	DT	P-O3'-C3'	-7.69	108.67	120.20
11	AB	4012	DT	P-O3'-C3'	-7.69	108.66	120.20
11	AB	4503	DT	P-O3'-C3'	-7.69	108.66	120.20
11	AB	5185	DT	P-O3'-C3'	-7.69	108.66	120.20
11	AB	5213	DT	P-O3'-C3'	-7.69	108.66	120.20
11	AB	5862	DT	P-O3'-C3'	-7.69	108.66	120.20
54	E8	17	DT	P-O3'-C3'	-7.69	108.66	120.20
58	ED	38	DT	P-O3'-C3'	-7.69	108.67	120.20
71	G2	7	DT	P-O3'-C3'	-7.69	108.67	120.20
171	P8	13	DT	P-O3'-C3'	-7.69	108.67	120.20
181	Q9	14	DT	P-O3'-C3'	-7.69	108.66	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
184	QD	19	DT	P-O3'-C3'	-7.69	108.66	120.20
188	R7	19	DT	P-O3'-C3'	-7.69	108.67	120.20
198	S8	13	DT	P-O3'-C3'	-7.69	108.66	120.20
11	AB	1959	DT	P-O3'-C3'	-7.69	108.67	120.20
11	AB	2141	DT	P-O3'-C3'	-7.69	108.67	120.20
11	AB	3508	DT	P-O3'-C3'	-7.69	108.67	120.20
11	AB	4006	DT	P-O3'-C3'	-7.69	108.67	120.20
11	AB	4770	DT	P-O3'-C3'	-7.69	108.67	120.20
11	AB	5512	DT	P-O3'-C3'	-7.69	108.67	120.20
43	D8	30	DT	P-O3'-C3'	-7.69	108.67	120.20
199	S9	14	DT	P-O3'-C3'	-7.69	108.67	120.20
11	AB	1597	DT	P-O3'-C3'	-7.69	108.67	120.20
11	AB	5458	DT	P-O3'-C3'	-7.69	108.67	120.20
11	AB	5588	DT	P-O3'-C3'	-7.69	108.67	120.20
11	AB	5599	DT	P-O3'-C3'	-7.69	108.67	120.20
122	KA	30	DT	P-O3'-C3'	-7.69	108.67	120.20
11	AB	1242	DT	P-O3'-C3'	-7.69	108.67	120.20
11	AB	2175	DT	P-O3'-C3'	-7.69	108.67	120.20
156	O2	13	DT	P-O3'-C3'	-7.69	108.67	120.20
205	T5	7	DT	P-O3'-C3'	-7.69	108.67	120.20
72	G3	1	DT	P-O3'-C3'	-7.68	108.67	120.20
11	AB	2839	DT	P-O3'-C3'	-7.68	108.68	120.20
11	AB	2968	DT	P-O3'-C3'	-7.68	108.68	120.20
11	AB	3010	DT	P-O3'-C3'	-7.68	108.68	120.20
11	AB	4869	DT	P-O3'-C3'	-7.68	108.67	120.20
11	AB	7044	DT	P-O3'-C3'	-7.68	108.68	120.20
138	M5	12	DT	P-O3'-C3'	-7.68	108.68	120.20
181	Q9	36	DT	P-O3'-C3'	-7.68	108.68	120.20
192	RC	22	DT	P-O3'-C3'	-7.68	108.67	120.20
11	AB	6875	DT	P-O3'-C3'	-7.68	108.68	120.20
170	P7	6	DT	P-O3'-C3'	-7.68	108.68	120.20
11	AB	4529	DT	P-O3'-C3'	-7.68	108.68	120.20
11	AB	6880	DT	P-O3'-C3'	-7.68	108.68	120.20
11	AB	1953	DT	P-O3'-C3'	-7.68	108.68	120.20
11	AB	2520	DT	P-O3'-C3'	-7.68	108.69	120.20
11	AB	1813	DT	P-O3'-C3'	-7.67	108.69	120.20
11	AB	2822	DT	P-O3'-C3'	-7.67	108.69	120.20
11	AB	1189	DT	P-O3'-C3'	-7.67	108.69	120.20
11	AB	3148	DT	P-O3'-C3'	-7.67	108.69	120.20
88	H9	4	DT	P-O3'-C3'	-7.67	108.69	120.20
11	AB	6658	DT	P-O3'-C3'	-7.67	108.70	120.20
11	AB	6861	DT	P-O3'-C3'	-7.67	108.70	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7057	DT	P-O3'-C3'	-7.67	108.70	120.20
11	AB	5074	DT	P-O3'-C3'	-7.67	108.70	120.20
39	D3	5	DT	P-O3'-C3'	-7.67	108.70	120.20
213	U3	21	DT	P-O3'-C3'	-7.67	108.70	120.20
11	AB	3436	DT	P-O3'-C3'	-7.66	108.71	120.20
212	U2	18	DT	P-O3'-C3'	-7.64	108.73	120.20
11	AB	262	DT	P-O3'-C3'	-7.63	108.76	120.20
11	AB	1342	DT	P-O3'-C3'	-7.61	108.79	120.20
11	AB	432	DT	P-O3'-C3'	-7.59	108.82	120.20
11	AB	2135	DT	P-O3'-C3'	-7.58	108.83	120.20
11	AB	3350	DT	P-O3'-C3'	-7.55	108.87	120.20
11	AB	2522	DT	P-O3'-C3'	-7.50	108.95	120.20
11	AB	3499	DT	P-O3'-C3'	-7.42	109.06	120.20
11	AB	2052	DA	P-O3'-C3'	-7.40	109.10	120.20
11	AB	4388	DA	P-O3'-C3'	-7.40	109.11	120.20
110	J9	6	DA	P-O3'-C3'	-7.39	109.11	120.20
164	OC	9	DA	P-O3'-C3'	-7.39	109.11	120.20
11	AB	4246	DA	P-O3'-C3'	-7.39	109.11	120.20
70	G1	9	DA	P-O3'-C3'	-7.39	109.11	120.20
11	AB	736	DA	P-O3'-C3'	-7.39	109.12	120.20
11	AB	6743	DA	P-O3'-C3'	-7.39	109.12	120.20
11	AB	7098	DA	P-O3'-C3'	-7.39	109.12	120.20
212	U2	24	DA	P-O3'-C3'	-7.39	109.12	120.20
11	AB	1729	DA	P-O3'-C3'	-7.39	109.12	120.20
160	O7	32	DA	P-O3'-C3'	-7.39	109.12	120.20
237	X7	16	DA	P-O3'-C3'	-7.39	109.12	120.20
11	AB	839	DA	P-O3'-C3'	-7.39	109.12	120.20
67	FA	28	DA	P-O3'-C3'	-7.39	109.12	120.20
208	T9	8	DA	P-O3'-C3'	-7.39	109.12	120.20
11	AB	3832	DA	P-O3'-C3'	-7.38	109.12	120.20
42	D7	12	DA	P-O3'-C3'	-7.38	109.12	120.20
168	P5	17	DA	P-O3'-C3'	-7.38	109.12	120.20
11	AB	657	DA	P-O3'-C3'	-7.38	109.12	120.20
11	AB	6230	DA	P-O3'-C3'	-7.38	109.12	120.20
237	X7	19	DA	P-O3'-C3'	-7.38	109.13	120.20
11	AB	669	DA	P-O3'-C3'	-7.38	109.13	120.20
11	AB	2577	DA	P-O3'-C3'	-7.38	109.13	120.20
11	AB	3802	DA	P-O3'-C3'	-7.38	109.13	120.20
93	I2	17	DA	P-O3'-C3'	-7.38	109.13	120.20
149	N6	18	DA	P-O3'-C3'	-7.38	109.13	120.20
78	GA	15	DA	P-O3'-C3'	-7.38	109.13	120.20
11	AB	4383	DA	P-O3'-C3'	-7.38	109.13	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
61	F3	19	DA	P-O3'-C3'	-7.38	109.13	120.20
117	K5	18	DA	P-O3'-C3'	-7.38	109.13	120.20
135	LD	11	DA	P-O3'-C3'	-7.38	109.13	120.20
148	N5	15	DA	P-O3'-C3'	-7.38	109.13	120.20
156	O2	7	DA	P-O3'-C3'	-7.38	109.13	120.20
160	O7	28	DA	P-O3'-C3'	-7.38	109.13	120.20
160	O7	39	DA	P-O3'-C3'	-7.38	109.13	120.20
193	RD	7	DA	P-O3'-C3'	-7.38	109.13	120.20
199	S9	8	DA	P-O3'-C3'	-7.38	109.13	120.20
229	VD	2	DA	P-O3'-C3'	-7.38	109.13	120.20
11	AB	663	DA	P-O3'-C3'	-7.38	109.14	120.20
11	AB	2449	DA	P-O3'-C3'	-7.38	109.13	120.20
11	AB	2496	DA	P-O3'-C3'	-7.38	109.14	120.20
11	AB	3259	DA	P-O3'-C3'	-7.38	109.14	120.20
11	AB	3609	DA	P-O3'-C3'	-7.38	109.14	120.20
11	AB	4887	DA	P-O3'-C3'	-7.38	109.14	120.20
11	AB	5584	DA	P-O3'-C3'	-7.38	109.14	120.20
11	AB	7200	DA	P-O3'-C3'	-7.38	109.14	120.20
116	K3	19	DA	P-O3'-C3'	-7.38	109.14	120.20
2	A2	20	DA	P-O3'-C3'	-7.38	109.14	120.20
60	F2	3	DA	P-O3'-C3'	-7.38	109.14	120.20
130	L7	59	DA	P-O3'-C3'	-7.38	109.14	120.20
143	MA	17	DA	P-O3'-C3'	-7.38	109.14	120.20
226	V9	20	DA	P-O3'-C3'	-7.38	109.14	120.20
11	AB	354	DA	P-O3'-C3'	-7.37	109.14	120.20
11	AB	2011	DA	P-O3'-C3'	-7.37	109.14	120.20
11	AB	5995	DA	P-O3'-C3'	-7.37	109.14	120.20
29	C5	22	DA	P-O3'-C3'	-7.37	109.14	120.20
66	F9	11	DA	P-O3'-C3'	-7.37	109.14	120.20
81	H1	9	DA	P-O3'-C3'	-7.37	109.14	120.20
104	J2	36	DA	P-O3'-C3'	-7.37	109.14	120.20
114	K1	4	DA	P-O3'-C3'	-7.37	109.14	120.20
162	O9	6	DA	P-O3'-C3'	-7.37	109.14	120.20
184	QD	1	DA	P-O3'-C3'	-7.37	109.14	120.20
11	AB	648	DA	P-O3'-C3'	-7.37	109.14	120.20
11	AB	1064	DA	P-O3'-C3'	-7.37	109.14	120.20
11	AB	3373	DA	P-O3'-C3'	-7.37	109.14	120.20
11	AB	4381	DA	P-O3'-C3'	-7.37	109.14	120.20
11	AB	5445	DA	P-O3'-C3'	-7.37	109.14	120.20
11	AB	5619	DA	P-O3'-C3'	-7.37	109.14	120.20
86	H7	5	DA	P-O3'-C3'	-7.37	109.14	120.20
94	I3	51	DA	P-O3'-C3'	-7.37	109.14	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
206	T7	29	DA	P-O3'-C3'	-7.37	109.14	120.20
231	W5	33	DA	P-O3'-C3'	-7.37	109.14	120.20
11	AB	4774	DA	P-O3'-C3'	-7.37	109.14	120.20
221	V2	26	DA	P-O3'-C3'	-7.37	109.15	120.20
1	A1	9	DA	P-O3'-C3'	-7.37	109.15	120.20
11	AB	523	DA	P-O3'-C3'	-7.37	109.15	120.20
11	AB	1809	DA	P-O3'-C3'	-7.37	109.15	120.20
11	AB	2189	DA	P-O3'-C3'	-7.37	109.15	120.20
11	AB	4973	DA	P-O3'-C3'	-7.37	109.15	120.20
11	AB	5929	DA	P-O3'-C3'	-7.37	109.15	120.20
11	AB	7244	DA	P-O3'-C3'	-7.37	109.15	120.20
149	N6	45	DA	P-O3'-C3'	-7.37	109.15	120.20
151	N8	4	DA	P-O3'-C3'	-7.37	109.15	120.20
171	P8	16	DA	P-O3'-C3'	-7.37	109.15	120.20
11	AB	3463	DA	P-O3'-C3'	-7.37	109.15	120.20
75	G7	2	DA	P-O3'-C3'	-7.37	109.15	120.20
177	Q3	7	DA	P-O3'-C3'	-7.37	109.15	120.20
177	Q3	14	DA	P-O3'-C3'	-7.37	109.15	120.20
202	SD	25	DA	P-O3'-C3'	-7.37	109.15	120.20
11	AB	1318	DA	P-O3'-C3'	-7.37	109.15	120.20
11	AB	2723	DA	P-O3'-C3'	-7.37	109.15	120.20
11	AB	3190	DA	P-O3'-C3'	-7.37	109.15	120.20
11	AB	3358	DA	P-O3'-C3'	-7.37	109.15	120.20
11	AB	3484	DA	P-O3'-C3'	-7.37	109.15	120.20
11	AB	4103	DA	P-O3'-C3'	-7.37	109.15	120.20
11	AB	4563	DA	P-O3'-C3'	-7.37	109.15	120.20
11	AB	5625	DA	P-O3'-C3'	-7.37	109.15	120.20
11	AB	6166	DA	P-O3'-C3'	-7.37	109.15	120.20
12	AC	6	DA	P-O3'-C3'	-7.37	109.15	120.20
26	C1	10	DA	P-O3'-C3'	-7.37	109.15	120.20
45	DA	17	DA	P-O3'-C3'	-7.37	109.15	120.20
60	F2	33	DA	P-O3'-C3'	-7.37	109.15	120.20
75	G7	21	DA	P-O3'-C3'	-7.37	109.15	120.20
79	GC	23	DA	P-O3'-C3'	-7.37	109.15	120.20
90	HC	11	DA	P-O3'-C3'	-7.37	109.15	120.20
125	L1	35	DA	P-O3'-C3'	-7.37	109.15	120.20
132	L9	15	DA	P-O3'-C3'	-7.37	109.15	120.20
8	A8	20	DA	P-O3'-C3'	-7.36	109.15	120.20
11	AB	514	DA	P-O3'-C3'	-7.36	109.15	120.20
11	AB	700	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	1368	DA	P-O3'-C3'	-7.36	109.15	120.20
11	AB	3496	DA	P-O3'-C3'	-7.36	109.15	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5938	DA	P-O3'-C3'	-7.36	109.15	120.20
11	AB	6660	DA	P-O3'-C3'	-7.36	109.16	120.20
71	G2	12	DA	P-O3'-C3'	-7.36	109.16	120.20
182	QA	22	DA	P-O3'-C3'	-7.36	109.15	120.20
190	R9	43	DA	P-O3'-C3'	-7.36	109.16	120.20
198	S8	16	DA	P-O3'-C3'	-7.36	109.16	120.20
228	VC	4	DA	P-O3'-C3'	-7.36	109.15	120.20
234	W9	4	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	364	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	486	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	1080	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	4257	DA	P-O3'-C3'	-7.36	109.16	120.20
189	R8	18	DA	P-O3'-C3'	-7.36	109.16	120.20
1	A1	6	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	693	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	2165	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	4451	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	4907	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	5148	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	5407	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	5475	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	7089	DA	P-O3'-C3'	-7.36	109.16	120.20
28	C3	22	DA	P-O3'-C3'	-7.36	109.16	120.20
97	I7	6	DA	P-O3'-C3'	-7.36	109.16	120.20
106	J5	1	DA	P-O3'-C3'	-7.36	109.16	120.20
111	JA	14	DA	P-O3'-C3'	-7.36	109.16	120.20
129	L6	27	DA	P-O3'-C3'	-7.36	109.16	120.20
157	O3	5	DA	P-O3'-C3'	-7.36	109.16	120.20
161	O8	29	DA	P-O3'-C3'	-7.36	109.16	120.20
202	SD	18	DA	P-O3'-C3'	-7.36	109.16	120.20
227	VA	15	DA	P-O3'-C3'	-7.36	109.16	120.20
238	X9	58	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	3937	DA	P-O3'-C3'	-7.36	109.16	120.20
29	C5	25	DA	P-O3'-C3'	-7.36	109.16	120.20
43	D8	16	DA	P-O3'-C3'	-7.36	109.16	120.20
47	DD	9	DA	P-O3'-C3'	-7.36	109.16	120.20
120	K8	16	DA	P-O3'-C3'	-7.36	109.16	120.20
156	O2	16	DA	P-O3'-C3'	-7.36	109.16	120.20
187	R5	8	DA	P-O3'-C3'	-7.36	109.16	120.20
188	R7	22	DA	P-O3'-C3'	-7.36	109.16	120.20
225	V8	25	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	678	DA	P-O3'-C3'	-7.36	109.17	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4440	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	4670	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	5144	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	5988	DA	P-O3'-C3'	-7.36	109.17	120.20
11	AB	6102	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	6251	DA	P-O3'-C3'	-7.36	109.17	120.20
30	C6	39	DA	P-O3'-C3'	-7.36	109.17	120.20
113	JD	23	DA	P-O3'-C3'	-7.36	109.16	120.20
116	K3	7	DA	P-O3'-C3'	-7.36	109.16	120.20
125	L1	39	DA	P-O3'-C3'	-7.36	109.17	120.20
198	S8	44	DA	P-O3'-C3'	-7.36	109.16	120.20
217	U9	18	DA	P-O3'-C3'	-7.36	109.16	120.20
238	X9	21	DA	P-O3'-C3'	-7.36	109.16	120.20
11	AB	1389	DA	P-O3'-C3'	-7.36	109.17	120.20
11	AB	2959	DA	P-O3'-C3'	-7.36	109.17	120.20
11	AB	2975	DA	P-O3'-C3'	-7.36	109.17	120.20
11	AB	4330	DA	P-O3'-C3'	-7.36	109.17	120.20
26	C1	26	DA	P-O3'-C3'	-7.36	109.17	120.20
46	DC	12	DA	P-O3'-C3'	-7.36	109.17	120.20
78	GA	5	DA	P-O3'-C3'	-7.36	109.17	120.20
84	H5	1	DA	P-O3'-C3'	-7.36	109.17	120.20
88	H9	18	DA	P-O3'-C3'	-7.36	109.17	120.20
126	L2	41	DA	P-O3'-C3'	-7.36	109.17	120.20
143	MA	37	DA	P-O3'-C3'	-7.36	109.17	120.20
150	N7	17	DA	P-O3'-C3'	-7.36	109.17	120.20
153	NA	5	DA	P-O3'-C3'	-7.36	109.17	120.20
165	OD	26	DA	P-O3'-C3'	-7.36	109.17	120.20
226	V9	29	DA	P-O3'-C3'	-7.36	109.17	120.20
11	AB	742	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	1238	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	2716	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	3619	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	5426	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	5603	DA	P-O3'-C3'	-7.35	109.17	120.20
27	C2	10	DA	P-O3'-C3'	-7.35	109.17	120.20
94	I3	18	DA	P-O3'-C3'	-7.35	109.17	120.20
115	K2	35	DA	P-O3'-C3'	-7.35	109.17	120.20
140	M7	7	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	2433	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	2582	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	2616	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	4034	DA	P-O3'-C3'	-7.35	109.17	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4861	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	5439	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	5623	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	6950	DA	P-O3'-C3'	-7.35	109.17	120.20
18	B5	16	DA	P-O3'-C3'	-7.35	109.17	120.20
37	D1	41	DA	P-O3'-C3'	-7.35	109.17	120.20
44	D9	12	DA	P-O3'-C3'	-7.35	109.17	120.20
52	E6	19	DA	P-O3'-C3'	-7.35	109.17	120.20
99	I9	2	DA	P-O3'-C3'	-7.35	109.17	120.20
99	I9	6	DA	P-O3'-C3'	-7.35	109.17	120.20
128	L5	17	DA	P-O3'-C3'	-7.35	109.17	120.20
182	QA	4	DA	P-O3'-C3'	-7.35	109.17	120.20
207	T8	15	DA	P-O3'-C3'	-7.35	109.17	120.20
210	TC	5	DA	P-O3'-C3'	-7.35	109.17	120.20
216	U8	12	DA	P-O3'-C3'	-7.35	109.17	120.20
3	A3	6	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	1866	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	2040	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	2288	DA	P-O3'-C3'	-7.35	109.17	120.20
35	CC	26	DA	P-O3'-C3'	-7.35	109.17	120.20
91	HD	23	DA	P-O3'-C3'	-7.35	109.17	120.20
105	J3	14	DA	P-O3'-C3'	-7.35	109.17	120.20
134	LC	6	DA	P-O3'-C3'	-7.35	109.17	120.20
178	Q5	41	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	369	DA	P-O3'-C3'	-7.35	109.18	120.20
11	AB	748	DA	P-O3'-C3'	-7.35	109.18	120.20
11	AB	1327	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	1484	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	2741	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	3488	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	4178	DA	P-O3'-C3'	-7.35	109.18	120.20
11	AB	4251	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	4267	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	4312	DA	P-O3'-C3'	-7.35	109.17	120.20
11	AB	4816	DA	P-O3'-C3'	-7.35	109.17	120.20
48	E1	29	DA	P-O3'-C3'	-7.35	109.18	120.20
61	F3	24	DA	P-O3'-C3'	-7.35	109.18	120.20
84	H5	28	DA	P-O3'-C3'	-7.35	109.17	120.20
107	J6	17	DA	P-O3'-C3'	-7.35	109.18	120.20
111	JA	8	DA	P-O3'-C3'	-7.35	109.18	120.20
124	KD	3	DA	P-O3'-C3'	-7.35	109.18	120.20
167	P3	18	DA	P-O3'-C3'	-7.35	109.17	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
181	Q9	21	DA	P-O3'-C3'	-7.35	109.18	120.20
201	SC	17	DA	P-O3'-C3'	-7.35	109.18	120.20
10	AA	9	DA	P-O3'-C3'	-7.35	109.18	120.20
11	AB	1208	DA	P-O3'-C3'	-7.35	109.18	120.20
11	AB	1940	DA	P-O3'-C3'	-7.35	109.18	120.20
11	AB	2982	DA	P-O3'-C3'	-7.35	109.18	120.20
11	AB	4443	DA	P-O3'-C3'	-7.35	109.18	120.20
11	AB	5121	DA	P-O3'-C3'	-7.35	109.18	120.20
11	AB	5980	DA	P-O3'-C3'	-7.35	109.18	120.20
41	D6	43	DA	P-O3'-C3'	-7.35	109.18	120.20
52	E6	5	DA	P-O3'-C3'	-7.35	109.18	120.20
52	E6	12	DA	P-O3'-C3'	-7.35	109.18	120.20
75	G7	5	DA	P-O3'-C3'	-7.35	109.18	120.20
94	I3	4	DA	P-O3'-C3'	-7.35	109.18	120.20
104	J2	17	DA	P-O3'-C3'	-7.35	109.18	120.20
126	L2	57	DA	P-O3'-C3'	-7.35	109.18	120.20
141	M8	16	DA	P-O3'-C3'	-7.35	109.18	120.20
141	M8	26	DA	P-O3'-C3'	-7.35	109.18	120.20
147	N3	9	DA	P-O3'-C3'	-7.35	109.18	120.20
173	PA	8	DA	P-O3'-C3'	-7.35	109.18	120.20
187	R5	38	DA	P-O3'-C3'	-7.35	109.18	120.20
207	T8	11	DA	P-O3'-C3'	-7.35	109.18	120.20
11	AB	1891	DA	P-O3'-C3'	-7.35	109.18	120.20
11	AB	4378	DA	P-O3'-C3'	-7.35	109.18	120.20
24	BC	29	DA	P-O3'-C3'	-7.35	109.18	120.20
33	C9	11	DA	P-O3'-C3'	-7.35	109.18	120.20
41	D6	25	DA	P-O3'-C3'	-7.35	109.18	120.20
63	F6	20	DA	P-O3'-C3'	-7.35	109.18	120.20
90	HC	18	DA	P-O3'-C3'	-7.35	109.18	120.20
101	IC	21	DA	P-O3'-C3'	-7.35	109.18	120.20
106	J5	19	DA	P-O3'-C3'	-7.35	109.18	120.20
106	J5	22	DA	P-O3'-C3'	-7.35	109.18	120.20
145	MD	31	DA	P-O3'-C3'	-7.35	109.18	120.20
154	NC	22	DA	P-O3'-C3'	-7.35	109.18	120.20
156	O2	47	DA	P-O3'-C3'	-7.35	109.18	120.20
210	TC	26	DA	P-O3'-C3'	-7.35	109.18	120.20
222	V3	15	DA	P-O3'-C3'	-7.35	109.18	120.20
11	AB	1578	DA	P-O3'-C3'	-7.34	109.18	120.20
11	AB	2331	DA	P-O3'-C3'	-7.34	109.18	120.20
11	AB	3018	DA	P-O3'-C3'	-7.34	109.18	120.20
11	AB	3721	DA	P-O3'-C3'	-7.34	109.18	120.20
11	AB	4372	DA	P-O3'-C3'	-7.34	109.18	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5142	DA	P-O3'-C3'	-7.34	109.18	120.20
11	AB	5715	DA	P-O3'-C3'	-7.34	109.18	120.20
11	AB	5990	DA	P-O3'-C3'	-7.34	109.18	120.20
11	AB	6705	DA	P-O3'-C3'	-7.34	109.18	120.20
15	B2	7	DA	P-O3'-C3'	-7.34	109.19	120.20
36	CD	10	DA	P-O3'-C3'	-7.34	109.19	120.20
49	E2	42	DA	P-O3'-C3'	-7.34	109.18	120.20
54	E8	20	DA	P-O3'-C3'	-7.34	109.18	120.20
82	H2	31	DA	P-O3'-C3'	-7.34	109.18	120.20
114	K1	38	DA	P-O3'-C3'	-7.34	109.18	120.20
138	M5	3	DA	P-O3'-C3'	-7.34	109.18	120.20
139	M6	16	DA	P-O3'-C3'	-7.34	109.18	120.20
167	P3	1	DA	P-O3'-C3'	-7.34	109.18	120.20
181	Q9	24	DA	P-O3'-C3'	-7.34	109.18	120.20
224	V7	11	DA	P-O3'-C3'	-7.34	109.18	120.20
230	W3	34	DA	P-O3'-C3'	-7.34	109.18	120.20
11	AB	1399	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	3377	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	4115	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	4121	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	5189	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	5211	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	6347	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	6590	DA	P-O3'-C3'	-7.34	109.19	120.20
70	G1	2	DA	P-O3'-C3'	-7.34	109.19	120.20
85	H6	8	DA	P-O3'-C3'	-7.34	109.19	120.20
120	K8	13	DA	P-O3'-C3'	-7.34	109.19	120.20
197	S7	3	DA	P-O3'-C3'	-7.34	109.19	120.20
205	T5	15	DA	P-O3'-C3'	-7.34	109.19	120.20
1	A1	49	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	199	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	342	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	1621	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	1785	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	2215	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	6027	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	7224	DA	P-O3'-C3'	-7.34	109.19	120.20
23	BA	23	DA	P-O3'-C3'	-7.34	109.19	120.20
29	C5	18	DA	P-O3'-C3'	-7.34	109.19	120.20
38	D2	8	DA	P-O3'-C3'	-7.34	109.19	120.20
44	D9	3	DA	P-O3'-C3'	-7.34	109.19	120.20
119	K7	16	DA	P-O3'-C3'	-7.34	109.19	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
137	M3	23	DA	P-O3'-C3'	-7.34	109.19	120.20
145	MD	48	DA	P-O3'-C3'	-7.34	109.19	120.20
164	OC	7	DA	P-O3'-C3'	-7.34	109.19	120.20
167	P3	20	DA	P-O3'-C3'	-7.34	109.19	120.20
176	Q2	13	DA	P-O3'-C3'	-7.34	109.19	120.20
227	VA	26	DA	P-O3'-C3'	-7.34	109.19	120.20
6	A6	13	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	600	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	3577	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	3673	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	4123	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	4799	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	5090	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	5127	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	6116	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	6804	DA	P-O3'-C3'	-7.34	109.19	120.20
27	C2	15	DA	P-O3'-C3'	-7.34	109.19	120.20
30	C6	22	DA	P-O3'-C3'	-7.34	109.19	120.20
31	C7	32	DA	P-O3'-C3'	-7.34	109.19	120.20
98	I8	8	DA	P-O3'-C3'	-7.34	109.19	120.20
122	KA	1	DA	P-O3'-C3'	-7.34	109.19	120.20
126	L2	25	DA	P-O3'-C3'	-7.34	109.19	120.20
178	Q5	2	DA	P-O3'-C3'	-7.34	109.19	120.20
196	S5	6	DA	P-O3'-C3'	-7.34	109.19	120.20
237	X7	14	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	997	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	2745	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	3184	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	3877	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	3897	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	4876	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	6443	DA	P-O3'-C3'	-7.34	109.19	120.20
160	O7	10	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	104	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	240	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	1036	DA	P-O3'-C3'	-7.34	109.20	120.20
11	AB	1051	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	2102	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	2223	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	2352	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	2382	DA	P-O3'-C3'	-7.34	109.20	120.20
11	AB	2994	DA	P-O3'-C3'	-7.34	109.19	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4288	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	6363	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	6376	DA	P-O3'-C3'	-7.34	109.19	120.20
13	AD	17	DA	P-O3'-C3'	-7.34	109.19	120.20
20	B7	7	DA	P-O3'-C3'	-7.34	109.19	120.20
48	E1	31	DA	P-O3'-C3'	-7.34	109.20	120.20
87	H8	23	DA	P-O3'-C3'	-7.34	109.20	120.20
89	HA	21	DA	P-O3'-C3'	-7.34	109.19	120.20
95	I5	2	DA	P-O3'-C3'	-7.34	109.20	120.20
102	ID	11	DA	P-O3'-C3'	-7.34	109.20	120.20
104	J2	24	DA	P-O3'-C3'	-7.34	109.19	120.20
121	K9	23	DA	P-O3'-C3'	-7.34	109.20	120.20
124	KD	13	DA	P-O3'-C3'	-7.34	109.19	120.20
165	OD	38	DA	P-O3'-C3'	-7.34	109.19	120.20
213	U3	24	DA	P-O3'-C3'	-7.34	109.19	120.20
214	U5	4	DA	P-O3'-C3'	-7.34	109.20	120.20
227	VA	2	DA	P-O3'-C3'	-7.34	109.20	120.20
234	W9	17	DA	P-O3'-C3'	-7.34	109.19	120.20
11	AB	682	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	1149	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	3935	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	4704	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	5219	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	6844	DA	P-O3'-C3'	-7.33	109.20	120.20
103	J1	1	DA	P-O3'-C3'	-7.33	109.20	120.20
147	N3	22	DA	P-O3'-C3'	-7.33	109.20	120.20
156	O2	51	DA	P-O3'-C3'	-7.33	109.20	120.20
164	OC	22	DA	P-O3'-C3'	-7.33	109.20	120.20
223	V5	29	DA	P-O3'-C3'	-7.33	109.20	120.20
235	WD	7	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	2763	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	2953	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	3228	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	4581	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	4879	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	5201	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	5554	DA	P-O3'-C3'	-7.33	109.20	120.20
32	C8	21	DA	P-O3'-C3'	-7.33	109.20	120.20
38	D2	2	DA	P-O3'-C3'	-7.33	109.20	120.20
94	I3	26	DA	P-O3'-C3'	-7.33	109.20	120.20
105	J3	29	DA	P-O3'-C3'	-7.33	109.20	120.20
122	KA	45	DA	P-O3'-C3'	-7.33	109.20	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
148	N5	20	DA	P-O3'-C3'	-7.33	109.20	120.20
156	O2	37	DA	P-O3'-C3'	-7.33	109.20	120.20
184	QD	3	DA	P-O3'-C3'	-7.33	109.20	120.20
195	S3	10	DA	P-O3'-C3'	-7.33	109.20	120.20
196	S5	23	DA	P-O3'-C3'	-7.33	109.20	120.20
216	U8	15	DA	P-O3'-C3'	-7.33	109.20	120.20
235	WD	15	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	255	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	1043	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	1505	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	1722	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	3338	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	5889	DA	P-O3'-C3'	-7.33	109.20	120.20
58	ED	16	DA	P-O3'-C3'	-7.33	109.20	120.20
59	F1	16	DA	P-O3'-C3'	-7.33	109.20	120.20
87	H8	10	DA	P-O3'-C3'	-7.33	109.20	120.20
90	HC	22	DA	P-O3'-C3'	-7.33	109.20	120.20
100	IA	10	DA	P-O3'-C3'	-7.33	109.20	120.20
119	K7	10	DA	P-O3'-C3'	-7.33	109.20	120.20
121	K9	29	DA	P-O3'-C3'	-7.33	109.20	120.20
122	KA	24	DA	P-O3'-C3'	-7.33	109.20	120.20
127	L3	16	DA	P-O3'-C3'	-7.33	109.20	120.20
149	N6	34	DA	P-O3'-C3'	-7.33	109.20	120.20
159	O6	22	DA	P-O3'-C3'	-7.33	109.20	120.20
161	O8	33	DA	P-O3'-C3'	-7.33	109.20	120.20
198	S8	32	DA	P-O3'-C3'	-7.33	109.20	120.20
204	T3	42	DA	P-O3'-C3'	-7.33	109.20	120.20
205	T5	5	DA	P-O3'-C3'	-7.33	109.20	120.20
11	AB	6288	DA	P-O3'-C3'	-7.33	109.20	120.20
21	B8	2	DA	P-O3'-C3'	-7.33	109.21	120.20
76	G8	13	DA	P-O3'-C3'	-7.33	109.20	120.20
79	GC	10	DA	P-O3'-C3'	-7.33	109.20	120.20
93	I2	1	DA	P-O3'-C3'	-7.33	109.21	120.20
165	OD	19	DA	P-O3'-C3'	-7.33	109.20	120.20
209	TA	38	DA	P-O3'-C3'	-7.33	109.20	120.20
1	A1	25	DA	P-O3'-C3'	-7.33	109.21	120.20
5	A5	29	DA	P-O3'-C3'	-7.33	109.21	120.20
11	AB	47	DA	P-O3'-C3'	-7.33	109.21	120.20
11	AB	1292	DA	P-O3'-C3'	-7.33	109.21	120.20
11	AB	3206	DA	P-O3'-C3'	-7.33	109.21	120.20
11	AB	3853	DA	P-O3'-C3'	-7.33	109.21	120.20
11	AB	4359	DA	P-O3'-C3'	-7.33	109.21	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5740	DA	P-O3'-C3'	-7.33	109.21	120.20
11	AB	6469	DA	P-O3'-C3'	-7.33	109.21	120.20
25	BD	5	DA	P-O3'-C3'	-7.33	109.21	120.20
28	C3	5	DA	P-O3'-C3'	-7.33	109.21	120.20
35	CC	9	DA	P-O3'-C3'	-7.33	109.21	120.20
41	D6	15	DA	P-O3'-C3'	-7.33	109.21	120.20
73	G5	11	DA	P-O3'-C3'	-7.33	109.21	120.20
122	KA	39	DA	P-O3'-C3'	-7.33	109.21	120.20
143	MA	23	DA	P-O3'-C3'	-7.33	109.21	120.20
156	O2	32	DA	P-O3'-C3'	-7.33	109.21	120.20
192	RC	19	DA	P-O3'-C3'	-7.33	109.21	120.20
196	S5	19	DA	P-O3'-C3'	-7.33	109.21	120.20
210	TC	11	DA	P-O3'-C3'	-7.33	109.21	120.20
238	X9	42	DA	P-O3'-C3'	-7.33	109.21	120.20
11	AB	4587	DA	P-O3'-C3'	-7.33	109.21	120.20
11	AB	5489	DA	P-O3'-C3'	-7.33	109.21	120.20
57	EC	3	DA	P-O3'-C3'	-7.33	109.21	120.20
220	UD	21	DA	P-O3'-C3'	-7.33	109.21	120.20
11	AB	467	DA	P-O3'-C3'	-7.33	109.21	120.20
11	AB	1629	DA	P-O3'-C3'	-7.33	109.21	120.20
11	AB	3050	DA	P-O3'-C3'	-7.33	109.21	120.20
11	AB	3901	DA	P-O3'-C3'	-7.33	109.21	120.20
11	AB	3957	DA	P-O3'-C3'	-7.33	109.21	120.20
11	AB	6846	DA	P-O3'-C3'	-7.33	109.21	120.20
37	D1	23	DA	P-O3'-C3'	-7.33	109.21	120.20
143	MA	35	DA	P-O3'-C3'	-7.33	109.21	120.20
148	N5	23	DA	P-O3'-C3'	-7.33	109.21	120.20
173	PA	27	DA	P-O3'-C3'	-7.33	109.21	120.20
181	Q9	6	DA	P-O3'-C3'	-7.33	109.21	120.20
194	S2	10	DA	P-O3'-C3'	-7.33	109.21	120.20
203	T2	27	DA	P-O3'-C3'	-7.33	109.21	120.20
237	X7	6	DA	P-O3'-C3'	-7.33	109.21	120.20
11	AB	4547	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	4566	DA	P-O3'-C3'	-7.32	109.21	120.20
11	AB	4930	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	5524	DA	P-O3'-C3'	-7.32	109.21	120.20
11	AB	5737	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	6972	DA	P-O3'-C3'	-7.32	109.22	120.20
25	BD	8	DA	P-O3'-C3'	-7.32	109.21	120.20
52	E6	36	DA	P-O3'-C3'	-7.32	109.22	120.20
85	H6	27	DA	P-O3'-C3'	-7.32	109.21	120.20
93	I2	12	DA	P-O3'-C3'	-7.32	109.22	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	J6	33	DA	P-O3'-C3'	-7.32	109.22	120.20
144	MC	2	DA	P-O3'-C3'	-7.32	109.22	120.20
158	O5	25	DA	P-O3'-C3'	-7.32	109.21	120.20
183	QC	17	DA	P-O3'-C3'	-7.32	109.22	120.20
197	S7	1	DA	P-O3'-C3'	-7.32	109.22	120.20
211	TD	8	DA	P-O3'-C3'	-7.32	109.22	120.20
238	X9	34	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	210	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	259	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	5350	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	6987	DA	P-O3'-C3'	-7.32	109.22	120.20
18	B5	24	DA	P-O3'-C3'	-7.32	109.22	120.20
42	D7	16	DA	P-O3'-C3'	-7.32	109.22	120.20
163	OA	9	DA	P-O3'-C3'	-7.32	109.22	120.20
165	OD	15	DA	P-O3'-C3'	-7.32	109.22	120.20
182	QA	16	DA	P-O3'-C3'	-7.32	109.22	120.20
190	R9	40	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	271	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	504	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	2896	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	4781	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	5310	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	5827	DA	P-O3'-C3'	-7.32	109.22	120.20
43	D8	22	DA	P-O3'-C3'	-7.32	109.22	120.20
74	G6	11	DA	P-O3'-C3'	-7.32	109.22	120.20
113	JD	27	DA	P-O3'-C3'	-7.32	109.22	120.20
126	L2	38	DA	P-O3'-C3'	-7.32	109.22	120.20
130	L7	41	DA	P-O3'-C3'	-7.32	109.22	120.20
131	L8	23	DA	P-O3'-C3'	-7.32	109.22	120.20
152	N9	33	DA	P-O3'-C3'	-7.32	109.22	120.20
158	O5	35	DA	P-O3'-C3'	-7.32	109.22	120.20
184	QD	6	DA	P-O3'-C3'	-7.32	109.22	120.20
202	SD	11	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	2465	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	2637	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	6926	DA	P-O3'-C3'	-7.32	109.22	120.20
60	F2	28	DA	P-O3'-C3'	-7.32	109.22	120.20
71	G2	19	DA	P-O3'-C3'	-7.32	109.22	120.20
108	J7	41	DA	P-O3'-C3'	-7.32	109.22	120.20
117	K5	9	DA	P-O3'-C3'	-7.32	109.22	120.20
141	M8	8	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	324	DA	P-O3'-C3'	-7.32	109.22	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	528	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	1017	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	1403	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	4027	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	4716	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	4764	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	5109	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	5333	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	5630	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	6898	DA	P-O3'-C3'	-7.32	109.22	120.20
19	B6	11	DA	P-O3'-C3'	-7.32	109.22	120.20
47	DD	32	DA	P-O3'-C3'	-7.32	109.22	120.20
48	E1	23	DA	P-O3'-C3'	-7.32	109.22	120.20
51	E5	33	DA	P-O3'-C3'	-7.32	109.22	120.20
63	F6	14	DA	P-O3'-C3'	-7.32	109.22	120.20
82	H2	24	DA	P-O3'-C3'	-7.32	109.22	120.20
125	L1	4	DA	P-O3'-C3'	-7.32	109.22	120.20
203	T2	20	DA	P-O3'-C3'	-7.32	109.22	120.20
219	UC	29	DA	P-O3'-C3'	-7.32	109.22	120.20
1	A1	27	DA	P-O3'-C3'	-7.32	109.23	120.20
11	AB	98	DA	P-O3'-C3'	-7.32	109.23	120.20
11	AB	5415	DA	P-O3'-C3'	-7.32	109.23	120.20
11	AB	6073	DA	P-O3'-C3'	-7.32	109.23	120.20
11	AB	6537	DA	P-O3'-C3'	-7.32	109.22	120.20
11	AB	6617	DA	P-O3'-C3'	-7.32	109.23	120.20
44	D9	9	DA	P-O3'-C3'	-7.32	109.23	120.20
104	J2	9	DA	P-O3'-C3'	-7.32	109.23	120.20
133	LA	16	DA	P-O3'-C3'	-7.32	109.23	120.20
156	O2	55	DA	P-O3'-C3'	-7.32	109.23	120.20
221	V2	5	DA	P-O3'-C3'	-7.32	109.23	120.20
11	AB	478	DA	P-O3'-C3'	-7.31	109.23	120.20
11	AB	488	DA	P-O3'-C3'	-7.31	109.23	120.20
11	AB	3080	DA	P-O3'-C3'	-7.31	109.23	120.20
11	AB	4912	DA	P-O3'-C3'	-7.31	109.23	120.20
22	B9	31	DA	P-O3'-C3'	-7.31	109.23	120.20
125	L1	27	DA	P-O3'-C3'	-7.31	109.23	120.20
175	PD	9	DA	P-O3'-C3'	-7.31	109.23	120.20
7	A7	30	DA	P-O3'-C3'	-7.31	109.23	120.20
11	AB	4059	DA	P-O3'-C3'	-7.31	109.23	120.20
11	AB	4486	DA	P-O3'-C3'	-7.31	109.23	120.20
11	AB	6370	DA	P-O3'-C3'	-7.31	109.23	120.20
11	AB	6609	DA	P-O3'-C3'	-7.31	109.23	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	B9	37	DA	P-O3'-C3'	-7.31	109.23	120.20
37	D1	20	DA	P-O3'-C3'	-7.31	109.23	120.20
77	G9	4	DA	P-O3'-C3'	-7.31	109.23	120.20
104	J2	6	DA	P-O3'-C3'	-7.31	109.23	120.20
123	KC	24	DA	P-O3'-C3'	-7.31	109.23	120.20
128	L5	19	DA	P-O3'-C3'	-7.31	109.23	120.20
206	T7	19	DA	P-O3'-C3'	-7.31	109.23	120.20
11	AB	763	DA	P-O3'-C3'	-7.31	109.23	120.20
11	AB	5962	DA	P-O3'-C3'	-7.31	109.23	120.20
11	AB	6553	DA	P-O3'-C3'	-7.31	109.23	120.20
11	AB	6952	DA	P-O3'-C3'	-7.31	109.23	120.20
32	C8	33	DA	P-O3'-C3'	-7.31	109.23	120.20
47	DD	18	DA	P-O3'-C3'	-7.31	109.23	120.20
48	E1	15	DA	P-O3'-C3'	-7.31	109.23	120.20
117	K5	7	DA	P-O3'-C3'	-7.31	109.23	120.20
11	AB	708	DA	P-O3'-C3'	-7.31	109.24	120.20
11	AB	1195	DA	P-O3'-C3'	-7.31	109.24	120.20
11	AB	1996	DA	P-O3'-C3'	-7.31	109.23	120.20
11	AB	2447	DA	P-O3'-C3'	-7.31	109.23	120.20
11	AB	2562	DA	P-O3'-C3'	-7.31	109.24	120.20
11	AB	4342	DA	P-O3'-C3'	-7.31	109.24	120.20
11	AB	4634	DA	P-O3'-C3'	-7.31	109.24	120.20
62	F5	15	DA	P-O3'-C3'	-7.31	109.24	120.20
96	I6	16	DA	P-O3'-C3'	-7.31	109.23	120.20
108	J7	45	DA	P-O3'-C3'	-7.31	109.24	120.20
109	J8	46	DA	P-O3'-C3'	-7.31	109.24	120.20
115	K2	28	DA	P-O3'-C3'	-7.31	109.24	120.20
137	M3	31	DA	P-O3'-C3'	-7.31	109.23	120.20
189	R8	22	DA	P-O3'-C3'	-7.31	109.23	120.20
11	AB	553	DA	P-O3'-C3'	-7.31	109.24	120.20
11	AB	2644	DA	P-O3'-C3'	-7.31	109.24	120.20
11	AB	4499	DA	P-O3'-C3'	-7.31	109.24	120.20
11	AB	4631	DA	P-O3'-C3'	-7.31	109.24	120.20
11	AB	5851	DA	P-O3'-C3'	-7.31	109.24	120.20
11	AB	6683	DA	P-O3'-C3'	-7.31	109.24	120.20
11	AB	6702	DA	P-O3'-C3'	-7.31	109.24	120.20
11	AB	7113	DA	P-O3'-C3'	-7.31	109.24	120.20
35	CC	33	DA	P-O3'-C3'	-7.31	109.24	120.20
97	I7	9	DA	P-O3'-C3'	-7.31	109.24	120.20
198	S8	36	DA	P-O3'-C3'	-7.31	109.24	120.20
11	AB	2146	DA	P-O3'-C3'	-7.31	109.24	120.20
11	AB	3874	DA	P-O3'-C3'	-7.31	109.24	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	D8	38	DA	P-O3'-C3'	-7.31	109.24	120.20
69	FD	42	DA	P-O3'-C3'	-7.31	109.24	120.20
103	J1	6	DA	P-O3'-C3'	-7.31	109.24	120.20
189	R8	36	DA	P-O3'-C3'	-7.31	109.24	120.20
11	AB	292	DA	P-O3'-C3'	-7.30	109.24	120.20
11	AB	1117	DA	P-O3'-C3'	-7.30	109.24	120.20
11	AB	2387	DA	P-O3'-C3'	-7.30	109.24	120.20
69	FD	15	DA	P-O3'-C3'	-7.30	109.24	120.20
72	G3	23	DA	P-O3'-C3'	-7.30	109.24	120.20
97	I7	19	DA	P-O3'-C3'	-7.30	109.24	120.20
173	PA	34	DA	P-O3'-C3'	-7.30	109.24	120.20
201	SC	8	DA	P-O3'-C3'	-7.30	109.24	120.20
11	AB	2371	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	3290	DA	P-O3'-C3'	-7.30	109.25	120.20
41	D6	12	DA	P-O3'-C3'	-7.30	109.25	120.20
109	J8	8	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	298	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	462	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	4051	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	5153	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	5830	DA	P-O3'-C3'	-7.30	109.25	120.20
55	E9	39	DA	P-O3'-C3'	-7.30	109.25	120.20
162	O9	15	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	279	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	543	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	1920	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	2259	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	4838	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	6329	DA	P-O3'-C3'	-7.30	109.25	120.20
126	L2	7	DA	P-O3'-C3'	-7.30	109.25	120.20
161	O8	19	DA	P-O3'-C3'	-7.30	109.25	120.20
205	T5	13	DA	P-O3'-C3'	-7.30	109.25	120.20
1	A1	44	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	829	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	2241	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	3922	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	4016	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	5038	DA	P-O3'-C3'	-7.30	109.25	120.20
158	O5	18	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	274	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	5165	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	5900	DA	P-O3'-C3'	-7.30	109.25	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B1	30	DA	P-O3'-C3'	-7.30	109.25	120.20
230	W3	15	DA	P-O3'-C3'	-7.30	109.25	120.20
11	AB	6763	DA	P-O3'-C3'	-7.29	109.26	120.20
11	AB	5258	DA	P-O3'-C3'	-7.29	109.26	120.20
11	AB	6015	DA	P-O3'-C3'	-7.29	109.26	120.20
238	X9	13	DA	P-O3'-C3'	-7.29	109.26	120.20
112	JC	9	DA	P-O3'-C3'	-7.29	109.26	120.20
174	PC	5	DA	P-O3'-C3'	-7.29	109.26	120.20
85	H6	34	DA	P-O3'-C3'	-7.29	109.27	120.20
11	AB	349	DA	P-O3'-C3'	-7.29	109.27	120.20
47	DD	43	DA	P-O3'-C3'	-7.29	109.27	120.20
11	AB	6391	DA	P-O3'-C3'	-7.29	109.27	120.20
196	S5	15	DA	P-O3'-C3'	-7.29	109.27	120.20
11	AB	5344	DA	P-O3'-C3'	-7.29	109.27	120.20
73	G5	19	DA	P-O3'-C3'	-7.29	109.27	120.20
75	G7	9	DA	P-O3'-C3'	-7.29	109.27	120.20
105	J3	22	DA	P-O3'-C3'	-7.29	109.27	120.20
229	VD	14	DA	P-O3'-C3'	-7.28	109.27	120.20
11	AB	4896	DA	P-O3'-C3'	-7.28	109.28	120.20
11	AB	4990	DA	P-O3'-C3'	-7.28	109.28	120.20
210	TC	21	DA	P-O3'-C3'	-7.28	109.28	120.20
143	MA	25	DA	P-O3'-C3'	-7.28	109.28	120.20
11	AB	77	DA	P-O3'-C3'	-7.27	109.30	120.20
11	AB	2228	DA	P-O3'-C3'	-7.20	109.40	120.20
11	AB	706	DA	P-O3'-C3'	-7.19	109.41	120.20
11	AB	148	DA	P-O3'-C3'	-7.19	109.42	120.20
11	AB	5371	DA	P-O3'-C3'	-7.18	109.42	120.20
11	AB	4646	DA	P-O3'-C3'	-7.18	109.43	120.20
11	AB	7163	DA	P-O3'-C3'	-7.18	109.43	120.20
11	AB	1914	DG	OP2-P-O3'	5.57	124.70	108.00
175	PD	5	DG	OP2-P-O3'	5.56	124.69	108.00
11	AB	4249	DG	OP2-P-O3'	5.56	124.68	108.00
215	U7	11	DG	OP2-P-O3'	5.56	124.67	108.00
11	AB	4602	DG	OP2-P-O3'	5.55	124.66	108.00
217	U9	21	DG	OP2-P-O3'	5.55	124.66	108.00
11	AB	738	DG	OP2-P-O3'	5.55	124.66	108.00
11	AB	4496	DG	OP2-P-O3'	5.55	124.66	108.00
11	AB	4725	DG	OP2-P-O3'	5.55	124.65	108.00
37	D1	17	DG	OP2-P-O3'	5.55	124.65	108.00
94	I3	55	DG	OP2-P-O3'	5.55	124.65	108.00
11	AB	228	DG	OP2-P-O3'	5.55	124.65	108.00
11	AB	928	DG	OP2-P-O3'	5.55	124.65	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3473	DG	OP2-P-O3'	5.55	124.65	108.00
11	AB	4025	DG	OP2-P-O3'	5.55	124.65	108.00
11	AB	4732	DG	OP2-P-O3'	5.55	124.65	108.00
11	AB	5391	DG	OP2-P-O3'	5.55	124.65	108.00
11	AB	5749	DG	OP2-P-O3'	5.55	124.65	108.00
46	DC	20	DG	OP2-P-O3'	5.55	124.65	108.00
112	JC	4	DG	OP2-P-O3'	5.55	124.65	108.00
11	AB	3461	DG	OP2-P-O3'	5.55	124.64	108.00
11	AB	5548	DG	OP2-P-O3'	5.55	124.64	108.00
52	E6	30	DG	OP2-P-O3'	5.55	124.64	108.00
7	A7	15	DG	OP2-P-O3'	5.55	124.64	108.00
11	AB	86	DG	OP2-P-O3'	5.55	124.64	108.00
11	AB	442	DG	OP2-P-O3'	5.55	124.64	108.00
11	AB	4105	DG	OP2-P-O3'	5.55	124.64	108.00
11	AB	4480	DG	OP2-P-O3'	5.55	124.64	108.00
13	AD	28	DG	OP2-P-O3'	5.55	124.64	108.00
47	DD	38	DG	OP2-P-O3'	5.55	124.64	108.00
48	E1	12	DG	OP2-P-O3'	5.55	124.64	108.00
53	E7	11	DG	OP2-P-O3'	5.55	124.64	108.00
195	S3	2	DG	OP2-P-O3'	5.55	124.64	108.00
11	AB	2273	DG	OP2-P-O3'	5.54	124.64	108.00
13	AD	14	DG	OP2-P-O3'	5.54	124.64	108.00
17	B4	11	DG	OP2-P-O3'	5.54	124.64	108.00
117	K5	3	DG	OP2-P-O3'	5.54	124.64	108.00
180	Q8	5	DG	OP2-P-O3'	5.54	124.64	108.00
180	Q8	10	DG	OP2-P-O3'	5.54	124.63	108.00
11	AB	457	DG	OP2-P-O3'	5.54	124.63	108.00
11	AB	536	DG	OP2-P-O3'	5.54	124.63	108.00
11	AB	3514	DG	OP2-P-O3'	5.54	124.63	108.00
11	AB	4188	DG	OP2-P-O3'	5.54	124.63	108.00
11	AB	4859	DG	OP2-P-O3'	5.54	124.63	108.00
11	AB	4920	DG	OP2-P-O3'	5.54	124.63	108.00
11	AB	4967	DG	OP2-P-O3'	5.54	124.63	108.00
11	AB	5756	DG	OP2-P-O3'	5.54	124.63	108.00
11	AB	5864	DG	OP2-P-O3'	5.54	124.63	108.00
11	AB	5884	DG	OP2-P-O3'	5.54	124.63	108.00
67	FA	18	DG	OP2-P-O3'	5.54	124.63	108.00
154	NC	30	DG	OP2-P-O3'	5.54	124.63	108.00
158	O5	50	DG	OP2-P-O3'	5.54	124.63	108.00
213	U3	19	DG	OP2-P-O3'	5.54	124.63	108.00
11	AB	42	DG	OP2-P-O3'	5.54	124.63	108.00
11	AB	1161	DG	OP2-P-O3'	5.54	124.62	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1967	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	2035	DG	OP2-P-O3'	5.54	124.63	108.00
11	AB	2851	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	3986	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	3998	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	4133	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	4154	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	4297	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	4757	DG	OP2-P-O3'	5.54	124.63	108.00
11	AB	4996	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	5764	DG	OP2-P-O3'	5.54	124.62	108.00
50	E3	4	DG	OP2-P-O3'	5.54	124.63	108.00
58	ED	29	DG	OP2-P-O3'	5.54	124.62	108.00
93	I2	25	DG	OP2-P-O3'	5.54	124.63	108.00
103	J1	13	DG	OP2-P-O3'	5.54	124.62	108.00
109	J8	34	DG	OP2-P-O3'	5.54	124.62	108.00
117	K5	27	DG	OP2-P-O3'	5.54	124.63	108.00
125	L1	55	DG	OP2-P-O3'	5.54	124.62	108.00
146	N2	22	DG	OP2-P-O3'	5.54	124.63	108.00
168	P5	3	DG	OP2-P-O3'	5.54	124.63	108.00
199	S9	10	DG	OP2-P-O3'	5.54	124.63	108.00
11	AB	114	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	427	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	993	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	1789	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	3779	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	5277	DG	OP2-P-O3'	5.54	124.62	108.00
119	K7	3	DG	OP2-P-O3'	5.54	124.62	108.00
129	L6	23	DG	OP2-P-O3'	5.54	124.62	108.00
189	R8	28	DG	OP2-P-O3'	5.54	124.62	108.00
227	VA	20	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	415	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	676	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	1060	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	1521	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	1922	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	2345	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	3555	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	3621	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	3769	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	4004	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	4048	DG	OP2-P-O3'	5.54	124.61	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4076	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	4600	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	5468	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	5848	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	6057	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	6630	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	7187	DG	OP2-P-O3'	5.54	124.62	108.00
11	AB	7231	DG	OP2-P-O3'	5.54	124.62	108.00
13	AD	33	DG	OP2-P-O3'	5.54	124.62	108.00
20	B7	9	DG	OP2-P-O3'	5.54	124.62	108.00
30	C6	31	DG	OP2-P-O3'	5.54	124.61	108.00
41	D6	3	DG	OP2-P-O3'	5.54	124.62	108.00
46	DC	16	DG	OP2-P-O3'	5.54	124.62	108.00
70	G1	6	DG	OP2-P-O3'	5.54	124.62	108.00
82	H2	38	DG	OP2-P-O3'	5.54	124.62	108.00
84	H5	20	DG	OP2-P-O3'	5.54	124.61	108.00
132	L9	12	DG	OP2-P-O3'	5.54	124.62	108.00
160	O7	13	DG	OP2-P-O3'	5.54	124.61	108.00
174	PC	23	DG	OP2-P-O3'	5.54	124.62	108.00
182	QA	20	DG	OP2-P-O3'	5.54	124.62	108.00
197	S7	6	DG	OP2-P-O3'	5.54	124.61	108.00
10	AA	11	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	2883	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	4622	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	4925	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	5430	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	6474	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	6940	DG	OP2-P-O3'	5.54	124.61	108.00
31	C7	30	DG	OP2-P-O3'	5.54	124.61	108.00
32	C8	28	DG	OP2-P-O3'	5.54	124.61	108.00
41	D6	19	DG	OP2-P-O3'	5.54	124.61	108.00
44	D9	18	DG	OP2-P-O3'	5.54	124.61	108.00
69	FD	37	DG	OP2-P-O3'	5.54	124.61	108.00
74	G6	35	DG	OP2-P-O3'	5.54	124.61	108.00
82	H2	5	DG	OP2-P-O3'	5.54	124.61	108.00
85	H6	17	DG	OP2-P-O3'	5.54	124.61	108.00
104	J2	26	DG	OP2-P-O3'	5.54	124.61	108.00
114	K1	16	DG	OP2-P-O3'	5.54	124.61	108.00
115	K2	17	DG	OP2-P-O3'	5.54	124.61	108.00
211	TD	10	DG	OP2-P-O3'	5.54	124.61	108.00
223	V5	37	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	204	DG	OP2-P-O3'	5.54	124.61	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1811	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	2018	DG	OP2-P-O3'	5.54	124.60	108.00
11	AB	3491	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	3806	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	4303	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	4322	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	4428	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	4493	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	4667	DG	OP2-P-O3'	5.54	124.60	108.00
11	AB	4672	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	4902	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	4971	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	5521	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	6146	DG	OP2-P-O3'	5.54	124.60	108.00
11	AB	6211	DG	OP2-P-O3'	5.54	124.60	108.00
11	AB	6646	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	6833	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	6905	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	7214	DG	OP2-P-O3'	5.54	124.61	108.00
32	C8	4	DG	OP2-P-O3'	5.54	124.61	108.00
40	D5	24	DG	OP2-P-O3'	5.54	124.61	108.00
82	H2	43	DG	OP2-P-O3'	5.54	124.61	108.00
106	J5	30	DG	OP2-P-O3'	5.54	124.61	108.00
107	J6	22	DG	OP2-P-O3'	5.54	124.61	108.00
128	L5	10	DG	OP2-P-O3'	5.54	124.61	108.00
136	M2	6	DG	OP2-P-O3'	5.54	124.60	108.00
152	N9	18	DG	OP2-P-O3'	5.54	124.61	108.00
166	P2	9	DG	OP2-P-O3'	5.54	124.60	108.00
166	P2	28	DG	OP2-P-O3'	5.54	124.61	108.00
187	R5	4	DG	OP2-P-O3'	5.54	124.61	108.00
187	R5	18	DG	OP2-P-O3'	5.54	124.61	108.00
200	SA	12	DG	OP2-P-O3'	5.54	124.61	108.00
11	AB	90	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	726	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	999	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	1165	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	1459	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	1573	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	3442	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	3445	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	3449	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	3542	DG	OP2-P-O3'	5.53	124.60	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3566	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	3653	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	4061	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	4110	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	4572	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	5050	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	5798	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	5824	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	6918	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	6933	DG	OP2-P-O3'	5.53	124.60	108.00
45	DA	14	DG	OP2-P-O3'	5.53	124.60	108.00
51	E5	25	DG	OP2-P-O3'	5.53	124.60	108.00
53	E7	16	DG	OP2-P-O3'	5.53	124.60	108.00
58	ED	7	DG	OP2-P-O3'	5.53	124.60	108.00
69	FD	31	DG	OP2-P-O3'	5.53	124.60	108.00
74	G6	21	DG	OP2-P-O3'	5.53	124.60	108.00
76	G8	7	DG	OP2-P-O3'	5.53	124.60	108.00
88	H9	16	DG	OP2-P-O3'	5.53	124.60	108.00
98	I8	25	DG	OP2-P-O3'	5.53	124.60	108.00
108	J7	55	DG	OP2-P-O3'	5.53	124.60	108.00
125	L1	25	DG	OP2-P-O3'	5.53	124.60	108.00
134	LC	16	DG	OP2-P-O3'	5.53	124.60	108.00
139	M6	21	DG	OP2-P-O3'	5.53	124.60	108.00
149	N6	2	DG	OP2-P-O3'	5.53	124.60	108.00
166	P2	11	DG	OP2-P-O3'	5.53	124.60	108.00
167	P3	9	DG	OP2-P-O3'	5.53	124.60	108.00
169	P6	5	DG	OP2-P-O3'	5.53	124.60	108.00
169	P6	10	DG	OP2-P-O3'	5.53	124.60	108.00
188	R7	8	DG	OP2-P-O3'	5.53	124.60	108.00
192	RC	33	DG	OP2-P-O3'	5.53	124.60	108.00
199	S9	20	DG	OP2-P-O3'	5.53	124.60	108.00
6	A6	9	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	294	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	1979	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	2106	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	4107	DG	OP2-P-O3'	5.53	124.60	108.00
11	AB	5010	DG	OP2-P-O3'	5.53	124.59	108.00
14	B1	21	DG	OP2-P-O3'	5.53	124.60	108.00
38	D2	17	DG	OP2-P-O3'	5.53	124.60	108.00
93	I2	45	DG	OP2-P-O3'	5.53	124.60	108.00
102	ID	30	DG	OP2-P-O3'	5.53	124.59	108.00
125	L1	12	DG	OP2-P-O3'	5.53	124.60	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
153	NA	15	DG	OP2-P-O3'	5.53	124.60	108.00
174	PC	7	DG	OP2-P-O3'	5.53	124.60	108.00
200	SA	6	DG	OP2-P-O3'	5.53	124.59	108.00
1	A1	15	DG	OP2-P-O3'	5.53	124.59	108.00
5	A5	23	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	766	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	1126	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	1611	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	2184	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	2263	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	2550	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	2910	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	3697	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	4629	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	4809	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	4959	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	5058	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	6004	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	7154	DG	OP2-P-O3'	5.53	124.59	108.00
15	B2	20	DG	OP2-P-O3'	5.53	124.59	108.00
24	BC	39	DG	OP2-P-O3'	5.53	124.59	108.00
43	D8	9	DG	OP2-P-O3'	5.53	124.59	108.00
68	FC	5	DG	OP2-P-O3'	5.53	124.59	108.00
69	FD	44	DG	OP2-P-O3'	5.53	124.59	108.00
69	FD	46	DG	OP2-P-O3'	5.53	124.59	108.00
82	H2	47	DG	OP2-P-O3'	5.53	124.59	108.00
143	MA	9	DG	OP2-P-O3'	5.53	124.59	108.00
147	N3	5	DG	OP2-P-O3'	5.53	124.59	108.00
149	N6	50	DG	OP2-P-O3'	5.53	124.59	108.00
188	R7	29	DG	OP2-P-O3'	5.53	124.59	108.00
190	R9	45	DG	OP2-P-O3'	5.53	124.59	108.00
192	RC	11	DG	OP2-P-O3'	5.53	124.59	108.00
206	T7	9	DG	OP2-P-O3'	5.53	124.59	108.00
206	T7	23	DG	OP2-P-O3'	5.53	124.59	108.00
217	U9	11	DG	OP2-P-O3'	5.53	124.59	108.00
220	UD	19	DG	OP2-P-O3'	5.53	124.59	108.00
231	W5	13	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	856	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	1092	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	1949	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	1981	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	2654	DG	OP2-P-O3'	5.53	124.59	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4085	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	4175	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	4583	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	5636	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	6693	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	7012	DG	OP2-P-O3'	5.53	124.59	108.00
13	AD	43	DG	OP2-P-O3'	5.53	124.59	108.00
24	BC	8	DG	OP2-P-O3'	5.53	124.59	108.00
39	D3	32	DG	OP2-P-O3'	5.53	124.59	108.00
65	F8	3	DG	OP2-P-O3'	5.53	124.59	108.00
82	H2	21	DG	OP2-P-O3'	5.53	124.59	108.00
91	HD	19	DG	OP2-P-O3'	5.53	124.59	108.00
99	I9	21	DG	OP2-P-O3'	5.53	124.59	108.00
110	J9	15	DG	OP2-P-O3'	5.53	124.59	108.00
120	K8	6	DG	OP2-P-O3'	5.53	124.59	108.00
145	MD	38	DG	OP2-P-O3'	5.53	124.59	108.00
152	N9	26	DG	OP2-P-O3'	5.53	124.59	108.00
156	O2	29	DG	OP2-P-O3'	5.53	124.59	108.00
204	T3	20	DG	OP2-P-O3'	5.53	124.59	108.00
212	U2	10	DG	OP2-P-O3'	5.53	124.59	108.00
214	U5	21	DG	OP2-P-O3'	5.53	124.59	108.00
11	AB	44	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	817	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	913	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	958	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	1182	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	1282	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	1798	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	1863	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	2178	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	2373	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	2588	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	2877	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	2885	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	3105	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	3838	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	4784	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	5062	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	5132	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	5215	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	5483	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	5946	DG	OP2-P-O3'	5.53	124.58	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6024	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	6349	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	6734	DG	OP2-P-O3'	5.53	124.58	108.00
24	BC	15	DG	OP2-P-O3'	5.53	124.58	108.00
38	D2	14	DG	OP2-P-O3'	5.53	124.58	108.00
54	E8	26	DG	OP2-P-O3'	5.53	124.58	108.00
61	F3	6	DG	OP2-P-O3'	5.53	124.58	108.00
96	I6	3	DG	OP2-P-O3'	5.53	124.58	108.00
109	J8	2	DG	OP2-P-O3'	5.53	124.58	108.00
109	J8	40	DG	OP2-P-O3'	5.53	124.58	108.00
115	K2	20	DG	OP2-P-O3'	5.53	124.58	108.00
139	M6	4	DG	OP2-P-O3'	5.53	124.58	108.00
143	MA	14	DG	OP2-P-O3'	5.53	124.58	108.00
143	MA	30	DG	OP2-P-O3'	5.53	124.58	108.00
156	O2	45	DG	OP2-P-O3'	5.53	124.58	108.00
161	O8	53	DG	OP2-P-O3'	5.53	124.58	108.00
165	OD	55	DG	OP2-P-O3'	5.53	124.58	108.00
174	PC	11	DG	OP2-P-O3'	5.53	124.58	108.00
194	S2	15	DG	OP2-P-O3'	5.53	124.58	108.00
206	T7	2	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	386	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	1267	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	1406	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	1770	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	1883	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	2668	DG	OP2-P-O3'	5.53	124.57	108.00
11	AB	2729	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	3369	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	3775	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	3888	DG	OP2-P-O3'	5.53	124.57	108.00
11	AB	4063	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	4071	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	4216	DG	OP2-P-O3'	5.53	124.57	108.00
11	AB	4510	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	4654	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	4850	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	4947	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	4980	DG	OP2-P-O3'	5.53	124.57	108.00
11	AB	5001	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	5017	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	5260	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	5772	DG	OP2-P-O3'	5.53	124.58	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5793	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	6130	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	6386	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	6821	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	7160	DG	OP2-P-O3'	5.53	124.58	108.00
11	AB	7217	DG	OP2-P-O3'	5.53	124.58	108.00
27	C2	20	DG	OP2-P-O3'	5.53	124.58	108.00
44	D9	27	DG	OP2-P-O3'	5.53	124.58	108.00
50	E3	2	DG	OP2-P-O3'	5.53	124.57	108.00
54	E8	28	DG	OP2-P-O3'	5.53	124.58	108.00
61	F3	15	DG	OP2-P-O3'	5.53	124.58	108.00
62	F5	18	DG	OP2-P-O3'	5.53	124.58	108.00
63	F6	9	DG	OP2-P-O3'	5.53	124.58	108.00
68	FC	17	DG	OP2-P-O3'	5.53	124.58	108.00
79	GC	12	DG	OP2-P-O3'	5.53	124.58	108.00
83	H3	37	DG	OP2-P-O3'	5.53	124.58	108.00
91	HD	17	DG	OP2-P-O3'	5.53	124.57	108.00
103	J1	24	DG	OP2-P-O3'	5.53	124.57	108.00
109	J8	42	DG	OP2-P-O3'	5.53	124.58	108.00
115	K2	15	DG	OP2-P-O3'	5.53	124.58	108.00
122	KA	5	DG	OP2-P-O3'	5.53	124.58	108.00
122	KA	13	DG	OP2-P-O3'	5.53	124.58	108.00
133	LA	6	DG	OP2-P-O3'	5.53	124.58	108.00
173	PA	36	DG	OP2-P-O3'	5.53	124.57	108.00
175	PD	17	DG	OP2-P-O3'	5.53	124.58	108.00
190	R9	28	DG	OP2-P-O3'	5.53	124.58	108.00
194	S2	29	DG	OP2-P-O3'	5.53	124.58	108.00
204	T3	24	DG	OP2-P-O3'	5.53	124.58	108.00
214	U5	8	DG	OP2-P-O3'	5.53	124.58	108.00
214	U5	17	DG	OP2-P-O3'	5.53	124.57	108.00
6	A6	28	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	321	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	833	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	1501	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	3584	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	4525	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	4590	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	4711	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	5084	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	6492	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	6999	DG	OP2-P-O3'	5.52	124.57	108.00
22	B9	4	DG	OP2-P-O3'	5.52	124.57	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	B9	41	DG	OP2-P-O3'	5.52	124.57	108.00
23	BA	17	DG	OP2-P-O3'	5.52	124.57	108.00
32	C8	25	DG	OP2-P-O3'	5.52	124.57	108.00
32	C8	39	DG	OP2-P-O3'	5.52	124.57	108.00
51	E5	11	DG	OP2-P-O3'	5.52	124.57	108.00
55	E9	18	DG	OP2-P-O3'	5.52	124.57	108.00
56	EA	20	DG	OP2-P-O3'	5.52	124.57	108.00
86	H7	21	DG	OP2-P-O3'	5.52	124.57	108.00
88	H9	11	DG	OP2-P-O3'	5.52	124.57	108.00
99	I9	17	DG	OP2-P-O3'	5.52	124.57	108.00
106	J5	7	DG	OP2-P-O3'	5.52	124.57	108.00
109	J8	53	DG	OP2-P-O3'	5.52	124.57	108.00
113	JD	30	DG	OP2-P-O3'	5.52	124.57	108.00
118	K6	9	DG	OP2-P-O3'	5.52	124.57	108.00
127	L3	4	DG	OP2-P-O3'	5.52	124.57	108.00
142	M9	5	DG	OP2-P-O3'	5.52	124.57	108.00
154	NC	26	DG	OP2-P-O3'	5.52	124.57	108.00
160	O7	1	DG	OP2-P-O3'	5.52	124.57	108.00
170	P7	12	DG	OP2-P-O3'	5.52	124.57	108.00
172	P9	20	DG	OP2-P-O3'	5.52	124.57	108.00
179	Q7	22	DG	OP2-P-O3'	5.52	124.57	108.00
186	R3	19	DG	OP2-P-O3'	5.52	124.57	108.00
203	T2	10	DG	OP2-P-O3'	5.52	124.57	108.00
205	T5	2	DG	OP2-P-O3'	5.52	124.57	108.00
209	TA	33	DG	OP2-P-O3'	5.52	124.57	108.00
211	TD	41	DG	OP2-P-O3'	5.52	124.57	108.00
223	V5	22	DG	OP2-P-O3'	5.52	124.57	108.00
225	V8	20	DG	OP2-P-O3'	5.52	124.57	108.00
4	A4	11	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	781	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	886	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	1011	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	1095	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	1613	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	1706	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	1855	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	1927	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	2296	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	2339	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	2435	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	2524	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	2556	DG	OP2-P-O3'	5.52	124.57	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3022	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	3142	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	3568	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	3811	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	3871	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	3953	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	4088	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	4202	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	4472	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	4608	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	4928	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	4998	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	5019	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	5036	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	5113	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	5301	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	5704	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	6189	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	6337	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	6505	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	6752	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	6831	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	6997	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	7084	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	7241	DG	OP2-P-O3'	5.52	124.57	108.00
69	FD	2	DG	OP2-P-O3'	5.52	124.57	108.00
93	I2	30	DG	OP2-P-O3'	5.52	124.57	108.00
94	I3	37	DG	OP2-P-O3'	5.52	124.57	108.00
104	J2	3	DG	OP2-P-O3'	5.52	124.56	108.00
140	M7	16	DG	OP2-P-O3'	5.52	124.57	108.00
145	MD	24	DG	OP2-P-O3'	5.52	124.57	108.00
164	OC	14	DG	OP2-P-O3'	5.52	124.57	108.00
185	R2	11	DG	OP2-P-O3'	5.52	124.57	108.00
186	R3	6	DG	OP2-P-O3'	5.52	124.57	108.00
186	R3	11	DG	OP2-P-O3'	5.52	124.57	108.00
191	RA	9	DG	OP2-P-O3'	5.52	124.57	108.00
192	RC	7	DG	OP2-P-O3'	5.52	124.57	108.00
217	U9	7	DG	OP2-P-O3'	5.52	124.57	108.00
232	W7	19	DG	OP2-P-O3'	5.52	124.57	108.00
236	X5	5	DG	OP2-P-O3'	5.52	124.57	108.00
11	AB	328	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	852	DG	OP2-P-O3'	5.52	124.56	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1038	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	2081	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	2391	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	2996	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	3469	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	4854	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	5024	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	5681	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	5782	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	5866	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	6168	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	7145	DG	OP2-P-O3'	5.52	124.56	108.00
30	C6	17	DG	OP2-P-O3'	5.52	124.56	108.00
32	C8	47	DG	OP2-P-O3'	5.52	124.56	108.00
52	E6	33	DG	OP2-P-O3'	5.52	124.56	108.00
57	EC	14	DG	OP2-P-O3'	5.52	124.56	108.00
77	G9	10	DG	OP2-P-O3'	5.52	124.56	108.00
115	K2	9	DG	OP2-P-O3'	5.52	124.56	108.00
119	K7	27	DG	OP2-P-O3'	5.52	124.56	108.00
143	MA	11	DG	OP2-P-O3'	5.52	124.56	108.00
196	S5	13	DG	OP2-P-O3'	5.52	124.56	108.00
206	T7	12	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	548	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	943	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	1077	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	1347	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	1429	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	1535	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	1819	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	2171	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	2311	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	2326	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	2713	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	3214	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	3414	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	3456	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	3606	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	3917	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	4127	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	4145	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	4574	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	4842	DG	OP2-P-O3'	5.52	124.56	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4846	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	5045	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	5070	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	5238	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	6030	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	6730	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	6755	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	6825	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	7190	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	7235	DG	OP2-P-O3'	5.52	124.56	108.00
32	C8	8	DG	OP2-P-O3'	5.52	124.56	108.00
47	DD	29	DG	OP2-P-O3'	5.52	124.56	108.00
60	F2	12	DG	OP2-P-O3'	5.52	124.56	108.00
80	GD	21	DG	OP2-P-O3'	5.52	124.56	108.00
83	H3	5	DG	OP2-P-O3'	5.52	124.56	108.00
90	HC	8	DG	OP2-P-O3'	5.52	124.56	108.00
94	I3	47	DG	OP2-P-O3'	5.52	124.56	108.00
110	J9	18	DG	OP2-P-O3'	5.52	124.56	108.00
110	J9	20	DG	OP2-P-O3'	5.52	124.56	108.00
112	JC	12	DG	OP2-P-O3'	5.52	124.56	108.00
113	JD	12	DG	OP2-P-O3'	5.52	124.56	108.00
126	L2	45	DG	OP2-P-O3'	5.52	124.56	108.00
151	N8	15	DG	OP2-P-O3'	5.52	124.56	108.00
151	N8	20	DG	OP2-P-O3'	5.52	124.56	108.00
174	PC	26	DG	OP2-P-O3'	5.52	124.56	108.00
185	R2	15	DG	OP2-P-O3'	5.52	124.56	108.00
201	SC	5	DG	OP2-P-O3'	5.52	124.56	108.00
209	TA	12	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	558	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	590	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	642	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	1848	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	1971	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	2014	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	2918	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	3293	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	3424	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	4074	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	4400	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	4489	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	4532	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	4625	DG	OP2-P-O3'	5.52	124.55	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4865	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	4943	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	5242	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	5253	DG	OP2-P-O3'	5.52	124.56	108.00
11	AB	5534	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	5695	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	6463	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	7072	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	7208	DG	OP2-P-O3'	5.52	124.55	108.00
27	C2	6	DG	OP2-P-O3'	5.52	124.56	108.00
37	D1	36	DG	OP2-P-O3'	5.52	124.56	108.00
58	ED	21	DG	OP2-P-O3'	5.52	124.55	108.00
60	F2	22	DG	OP2-P-O3'	5.52	124.55	108.00
72	G3	14	DG	OP2-P-O3'	5.52	124.55	108.00
88	H9	14	DG	OP2-P-O3'	5.52	124.55	108.00
92	I1	17	DG	OP2-P-O3'	5.52	124.55	108.00
92	I1	23	DG	OP2-P-O3'	5.52	124.56	108.00
97	I7	31	DG	OP2-P-O3'	5.52	124.55	108.00
101	IC	5	DG	OP2-P-O3'	5.52	124.56	108.00
144	MC	6	DG	OP2-P-O3'	5.52	124.55	108.00
145	MD	13	DG	OP2-P-O3'	5.52	124.55	108.00
167	P3	29	DG	OP2-P-O3'	5.52	124.55	108.00
181	Q9	16	DG	OP2-P-O3'	5.52	124.55	108.00
209	TA	16	DG	OP2-P-O3'	5.52	124.56	108.00
209	TA	27	DG	OP2-P-O3'	5.52	124.55	108.00
211	TD	39	DG	OP2-P-O3'	5.52	124.55	108.00
220	UD	9	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	1146	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	2674	DG	OP2-P-O3'	5.52	124.55	108.00
11	AB	7177	DG	OP2-P-O3'	5.52	124.55	108.00
60	F2	5	DG	OP2-P-O3'	5.52	124.55	108.00
63	F6	11	DG	OP2-P-O3'	5.52	124.55	108.00
75	G7	26	DG	OP2-P-O3'	5.52	124.55	108.00
101	IC	19	DG	OP2-P-O3'	5.52	124.55	108.00
117	K5	40	DG	OP2-P-O3'	5.52	124.55	108.00
123	KC	19	DG	OP2-P-O3'	5.52	124.55	108.00
124	KD	6	DG	OP2-P-O3'	5.52	124.55	108.00
147	N3	12	DG	OP2-P-O3'	5.52	124.55	108.00
147	N3	25	DG	OP2-P-O3'	5.52	124.55	108.00
195	S3	5	DG	OP2-P-O3'	5.52	124.55	108.00
216	U8	19	DG	OP2-P-O3'	5.52	124.55	108.00
227	VA	7	DG	OP2-P-O3'	5.52	124.55	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	20	DG	OP2-P-O3'	5.51	124.55	108.00
11	AB	61	DG	OP2-P-O3'	5.51	124.55	108.00
11	AB	126	DG	OP2-P-O3'	5.51	124.55	108.00
11	AB	901	DG	OP2-P-O3'	5.51	124.55	108.00
11	AB	1898	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	2169	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	4038	DG	OP2-P-O3'	5.51	124.55	108.00
11	AB	4538	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	4702	DG	OP2-P-O3'	5.51	124.55	108.00
11	AB	5323	DG	OP2-P-O3'	5.51	124.55	108.00
11	AB	6050	DG	OP2-P-O3'	5.51	124.55	108.00
11	AB	6406	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	6964	DG	OP2-P-O3'	5.51	124.55	108.00
14	B1	33	DG	OP2-P-O3'	5.51	124.54	108.00
37	D1	31	DG	OP2-P-O3'	5.51	124.55	108.00
47	DD	41	DG	OP2-P-O3'	5.51	124.54	108.00
88	H9	27	DG	OP2-P-O3'	5.51	124.54	108.00
94	I3	20	DG	OP2-P-O3'	5.51	124.54	108.00
109	J8	12	DG	OP2-P-O3'	5.51	124.54	108.00
119	K7	39	DG	OP2-P-O3'	5.51	124.55	108.00
143	MA	43	DG	OP2-P-O3'	5.51	124.54	108.00
156	O2	11	DG	OP2-P-O3'	5.51	124.54	108.00
163	OA	2	DG	OP2-P-O3'	5.51	124.55	108.00
178	Q5	5	DG	OP2-P-O3'	5.51	124.55	108.00
183	QC	21	DG	OP2-P-O3'	5.51	124.54	108.00
188	R7	14	DG	OP2-P-O3'	5.51	124.54	108.00
222	V3	10	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	307	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	635	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	1395	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	1559	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	1667	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	4083	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	4466	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	5594	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	6298	DG	OP2-P-O3'	5.51	124.54	108.00
99	I9	25	DG	OP2-P-O3'	5.51	124.54	108.00
112	JC	2	DG	OP2-P-O3'	5.51	124.54	108.00
136	M2	18	DG	OP2-P-O3'	5.51	124.54	108.00
147	N3	20	DG	OP2-P-O3'	5.51	124.54	108.00
200	SA	26	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	859	DG	OP2-P-O3'	5.51	124.54	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1053	DG	OP2-P-O3'	5.51	124.53	108.00
11	AB	1284	DG	OP2-P-O3'	5.51	124.53	108.00
11	AB	1494	DG	OP2-P-O3'	5.51	124.53	108.00
11	AB	2538	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	4131	DG	OP2-P-O3'	5.51	124.53	108.00
11	AB	4139	DG	OP2-P-O3'	5.51	124.53	108.00
11	AB	4515	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	4689	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	5176	DG	OP2-P-O3'	5.51	124.53	108.00
11	AB	5365	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	7050	DG	OP2-P-O3'	5.51	124.53	108.00
18	B5	3	DG	OP2-P-O3'	5.51	124.53	108.00
30	C6	25	DG	OP2-P-O3'	5.51	124.54	108.00
35	CC	31	DG	OP2-P-O3'	5.51	124.53	108.00
49	E2	4	DG	OP2-P-O3'	5.51	124.53	108.00
55	E9	22	DG	OP2-P-O3'	5.51	124.53	108.00
74	G6	29	DG	OP2-P-O3'	5.51	124.54	108.00
99	I9	10	DG	OP2-P-O3'	5.51	124.53	108.00
204	T3	1	DG	OP2-P-O3'	5.51	124.54	108.00
238	X9	4	DG	OP2-P-O3'	5.51	124.53	108.00
238	X9	53	DG	OP2-P-O3'	5.51	124.54	108.00
11	AB	768	DG	OP2-P-O3'	5.51	124.53	108.00
11	AB	862	DG	OP2-P-O3'	5.51	124.53	108.00
11	AB	883	DG	OP2-P-O3'	5.51	124.53	108.00
11	AB	1026	DG	OP2-P-O3'	5.51	124.53	108.00
11	AB	1541	DG	OP2-P-O3'	5.51	124.53	108.00
11	AB	1703	DG	OP2-P-O3'	5.51	124.53	108.00
11	AB	3168	DG	OP2-P-O3'	5.51	124.53	108.00
11	AB	4665	DG	OP2-P-O3'	5.51	124.53	108.00
11	AB	5497	DG	OP2-P-O3'	5.51	124.53	108.00
11	AB	5907	DG	OP2-P-O3'	5.51	124.53	108.00
11	AB	6042	DG	OP2-P-O3'	5.51	124.53	108.00
11	AB	6064	DG	OP2-P-O3'	5.51	124.53	108.00
11	AB	6907	DG	OP2-P-O3'	5.51	124.53	108.00
18	B5	8	DG	OP2-P-O3'	5.51	124.53	108.00
41	D6	5	DG	OP2-P-O3'	5.51	124.53	108.00
46	DC	8	DG	OP2-P-O3'	5.51	124.53	108.00
90	HC	15	DG	OP2-P-O3'	5.51	124.53	108.00
106	J5	27	DG	OP2-P-O3'	5.51	124.53	108.00
169	P6	18	DG	OP2-P-O3'	5.51	124.53	108.00
228	VC	12	DG	OP2-P-O3'	5.51	124.53	108.00
238	X9	49	DG	OP2-P-O3'	5.51	124.53	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	14	DG	OP2-P-O3'	5.51	124.52	108.00
11	AB	3316	DG	OP2-P-O3'	5.51	124.53	108.00
12	AC	18	DG	OP2-P-O3'	5.51	124.52	108.00
38	D2	11	DG	OP2-P-O3'	5.51	124.53	108.00
52	E6	16	DG	OP2-P-O3'	5.51	124.52	108.00
85	H6	21	DG	OP2-P-O3'	5.51	124.52	108.00
150	N7	22	DG	OP2-P-O3'	5.51	124.52	108.00
195	S3	7	DG	OP2-P-O3'	5.51	124.52	108.00
11	AB	1040	DG	OP2-P-O3'	5.51	124.52	108.00
11	AB	1131	DG	OP2-P-O3'	5.51	124.52	108.00
11	AB	4141	DG	OP2-P-O3'	5.51	124.52	108.00
11	AB	4951	DG	OP2-P-O3'	5.51	124.52	108.00
11	AB	5641	DG	OP2-P-O3'	5.51	124.52	108.00
11	AB	6090	DG	OP2-P-O3'	5.51	124.52	108.00
11	AB	6154	DG	OP2-P-O3'	5.51	124.52	108.00
43	D8	25	DG	OP2-P-O3'	5.51	124.52	108.00
54	E8	5	DG	OP2-P-O3'	5.51	124.52	108.00
65	F8	11	DG	OP2-P-O3'	5.51	124.52	108.00
66	F9	7	DG	OP2-P-O3'	5.51	124.52	108.00
187	R5	10	DG	OP2-P-O3'	5.51	124.52	108.00
204	T3	5	DG	OP2-P-O3'	5.51	124.52	108.00
223	V5	10	DG	OP2-P-O3'	5.51	124.52	108.00
233	W8	18	DG	OP2-P-O3'	5.51	124.52	108.00
2	A2	3	DG	OP2-P-O3'	5.50	124.52	108.00
2	A2	11	DG	OP2-P-O3'	5.50	124.52	108.00
11	AB	931	DG	OP2-P-O3'	5.50	124.52	108.00
11	AB	4118	DG	OP2-P-O3'	5.50	124.52	108.00
139	M6	19	DG	OP2-P-O3'	5.50	124.51	108.00
11	AB	3729	DG	OP2-P-O3'	5.50	124.51	108.00
11	AB	6413	DG	OP2-P-O3'	5.50	124.51	108.00
143	MA	45	DG	OP2-P-O3'	5.50	124.51	108.00
164	OC	11	DG	OP2-P-O3'	5.50	124.51	108.00
227	VA	22	DG	OP2-P-O3'	5.50	124.51	108.00
10	AA	17	DG	OP2-P-O3'	5.50	124.50	108.00
11	AB	1669	DG	OP2-P-O3'	5.50	124.50	108.00
140	M7	13	DG	OP2-P-O3'	5.50	124.50	108.00
11	AB	499	DG	OP2-P-O3'	5.50	124.50	108.00
11	AB	5134	DG	OP2-P-O3'	5.50	124.50	108.00
42	D7	19	DG	OP2-P-O3'	5.50	124.50	108.00
108	J7	20	DG	OP2-P-O3'	5.50	124.50	108.00
11	AB	6400	DG	OP2-P-O3'	5.50	124.49	108.00
159	O6	5	DG	OP2-P-O3'	5.50	124.49	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6218	DG	OP2-P-O3'	5.49	124.48	108.00
228	VC	29	DG	OP2-P-O3'	5.49	124.48	108.00
11	AB	390	DG	OP2-P-O3'	5.47	124.42	108.00
11	AB	4241	DG	OP2-P-O3'	5.47	124.41	108.00
11	AB	526	DG	OP2-P-O3'	5.46	124.37	108.00
11	AB	6223	DG	OP2-P-O3'	5.44	124.31	108.00
11	AB	661	DG	OP2-P-O3'	5.43	124.30	108.00
11	AB	5860	DG	OP2-P-O3'	5.42	124.27	108.00
11	AB	4184	DG	OP2-P-O3'	5.42	124.25	108.00
11	AB	5119	DG	OP2-P-O3'	5.37	124.09	108.00
11	AB	4055	DT	P-O3'-C3'	-5.36	112.16	120.20
11	AB	3204	DT	P-O3'-C3'	-5.36	112.16	120.20
11	AB	3816	DT	P-O3'-C3'	-5.36	112.16	120.20
74	G6	16	DT	P-O3'-C3'	-5.36	112.17	120.20
54	E8	9	DT	P-O3'-C3'	-5.35	112.17	120.20
68	FC	9	DT	P-O3'-C3'	-5.35	112.17	120.20
11	AB	4033	DT	P-O3'-C3'	-5.35	112.17	120.20
54	E8	22	DT	P-O3'-C3'	-5.35	112.17	120.20
11	AB	3428	DT	P-O3'-C3'	-5.35	112.18	120.20
11	AB	2722	DT	P-O3'-C3'	-5.35	112.18	120.20
165	OD	53	DT	P-O3'-C3'	-5.35	112.18	120.20
11	AB	160	DT	P-O3'-C3'	-5.34	112.18	120.20
11	AB	2307	DT	P-O3'-C3'	-5.34	112.18	120.20
11	AB	4906	DT	P-O3'-C3'	-5.34	112.18	120.20
11	AB	5622	DT	P-O3'-C3'	-5.34	112.18	120.20
11	AB	5895	DT	P-O3'-C3'	-5.34	112.18	120.20
184	QD	29	DT	P-O3'-C3'	-5.34	112.19	120.20
11	AB	3642	DT	P-O3'-C3'	-5.34	112.19	120.20
114	K1	37	DT	P-O3'-C3'	-5.34	112.19	120.20
136	M2	3	DT	P-O3'-C3'	-5.34	112.19	120.20
11	AB	2807	DT	P-O3'-C3'	-5.34	112.19	120.20
11	AB	3579	DT	P-O3'-C3'	-5.34	112.19	120.20
11	AB	4080	DT	P-O3'-C3'	-5.34	112.19	120.20
11	AB	4618	DT	P-O3'-C3'	-5.34	112.19	120.20
224	V7	19	DT	P-O3'-C3'	-5.34	112.19	120.20
11	AB	3928	DT	P-O3'-C3'	-5.34	112.19	120.20
11	AB	4915	DT	P-O3'-C3'	-5.34	112.19	120.20
11	AB	283	DT	P-O3'-C3'	-5.34	112.19	120.20
34	CA	1	DT	P-O3'-C3'	-5.34	112.19	120.20
37	D1	5	DT	P-O3'-C3'	-5.34	112.20	120.20
112	JC	17	DT	P-O3'-C3'	-5.34	112.19	120.20
207	T8	24	DT	P-O3'-C3'	-5.34	112.19	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	300	DT	P-O3'-C3'	-5.33	112.20	120.20
11	AB	2149	DT	P-O3'-C3'	-5.33	112.20	120.20
126	L2	11	DT	P-O3'-C3'	-5.33	112.20	120.20
11	AB	477	DT	P-O3'-C3'	-5.33	112.20	120.20
11	AB	2399	DT	P-O3'-C3'	-5.33	112.20	120.20
11	AB	2565	DT	P-O3'-C3'	-5.33	112.20	120.20
11	AB	4762	DT	P-O3'-C3'	-5.33	112.20	120.20
11	AB	5156	DT	P-O3'-C3'	-5.33	112.20	120.20
11	AB	6624	DT	P-O3'-C3'	-5.33	112.20	120.20
60	F2	10	DT	P-O3'-C3'	-5.33	112.20	120.20
69	FD	22	DT	P-O3'-C3'	-5.33	112.20	120.20
92	I1	10	DT	P-O3'-C3'	-5.33	112.20	120.20
142	M9	3	DT	P-O3'-C3'	-5.33	112.20	120.20
185	R2	22	DT	P-O3'-C3'	-5.33	112.20	120.20
11	AB	1663	DT	P-O3'-C3'	-5.33	112.20	120.20
11	AB	2871	DT	P-O3'-C3'	-5.33	112.20	120.20
11	AB	3070	DT	P-O3'-C3'	-5.33	112.20	120.20
11	AB	3969	DT	P-O3'-C3'	-5.33	112.20	120.20
11	AB	5775	DT	P-O3'-C3'	-5.33	112.20	120.20
30	C6	4	DT	P-O3'-C3'	-5.33	112.20	120.20
35	CC	19	DT	P-O3'-C3'	-5.33	112.20	120.20
100	IA	12	DT	P-O3'-C3'	-5.33	112.20	120.20
194	S2	9	DT	P-O3'-C3'	-5.33	112.20	120.20
208	T9	12	DT	P-O3'-C3'	-5.33	112.20	120.20
217	U9	5	DT	P-O3'-C3'	-5.33	112.20	120.20
220	UD	3	DT	P-O3'-C3'	-5.33	112.20	120.20
230	W3	33	DT	P-O3'-C3'	-5.33	112.20	120.20
11	AB	2048	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	2153	DT	P-O3'-C3'	-5.33	112.20	120.20
11	AB	2505	DT	P-O3'-C3'	-5.33	112.20	120.20
130	L7	18	DT	P-O3'-C3'	-5.33	112.20	120.20
11	AB	531	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	542	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	1133	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	3072	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	3956	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	4237	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	5829	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	5882	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	5886	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	6036	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	6440	DT	P-O3'-C3'	-5.33	112.21	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6622	DT	P-O3'-C3'	-5.33	112.21	120.20
44	D9	20	DT	P-O3'-C3'	-5.33	112.21	120.20
48	E1	22	DT	P-O3'-C3'	-5.33	112.21	120.20
157	O3	20	DT	P-O3'-C3'	-5.33	112.21	120.20
186	R3	21	DT	P-O3'-C3'	-5.33	112.21	120.20
225	V8	8	DT	P-O3'-C3'	-5.33	112.21	120.20
234	W9	2	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	1444	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	3285	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	5224	DT	P-O3'-C3'	-5.33	112.21	120.20
67	FA	20	DT	P-O3'-C3'	-5.33	112.21	120.20
83	H3	9	DT	P-O3'-C3'	-5.33	112.21	120.20
95	I5	23	DT	P-O3'-C3'	-5.33	112.21	120.20
192	RC	15	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	49	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	705	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	2039	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	2894	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	3302	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	3618	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	4224	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	4687	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	4722	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	5651	DT	P-O3'-C3'	-5.33	112.21	120.20
11	AB	6971	DT	P-O3'-C3'	-5.33	112.21	120.20
114	K1	3	DT	P-O3'-C3'	-5.33	112.21	120.20
152	N9	21	DT	P-O3'-C3'	-5.33	112.21	120.20
191	RA	29	DT	P-O3'-C3'	-5.33	112.21	120.20
193	RD	12	DT	P-O3'-C3'	-5.33	112.21	120.20
196	S5	31	DT	P-O3'-C3'	-5.33	112.21	120.20
198	S8	43	DT	P-O3'-C3'	-5.33	112.21	120.20
9	A9	12	DT	P-O3'-C3'	-5.32	112.21	120.20
11	AB	109	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	2182	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	2660	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	2858	DT	P-O3'-C3'	-5.32	112.21	120.20
42	D7	1	DT	P-O3'-C3'	-5.32	112.22	120.20
95	I5	40	DT	P-O3'-C3'	-5.32	112.22	120.20
135	LD	19	DT	P-O3'-C3'	-5.32	112.21	120.20
143	MA	5	DT	P-O3'-C3'	-5.32	112.22	120.20
149	N6	14	DT	P-O3'-C3'	-5.32	112.22	120.20
183	QC	15	DT	P-O3'-C3'	-5.32	112.22	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
184	QD	8	DT	P-O3'-C3'	-5.32	112.22	120.20
204	T3	36	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	1726	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	3297	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	5967	DT	P-O3'-C3'	-5.32	112.22	120.20
81	H1	19	DT	P-O3'-C3'	-5.32	112.22	120.20
157	O3	4	DT	P-O3'-C3'	-5.32	112.22	120.20
236	X5	11	DT	P-O3'-C3'	-5.32	112.22	120.20
5	A5	36	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	323	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	699	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	1388	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	2758	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	2774	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	3327	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	3672	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	5832	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	6738	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	6776	DT	P-O3'-C3'	-5.32	112.22	120.20
26	C1	2	DC	P-O3'-C3'	-5.32	112.22	120.20
62	F5	46	DT	P-O3'-C3'	-5.32	112.22	120.20
84	H5	27	DT	P-O3'-C3'	-5.32	112.22	120.20
86	H7	18	DT	P-O3'-C3'	-5.32	112.22	120.20
113	JD	34	DT	P-O3'-C3'	-5.32	112.22	120.20
115	K2	7	DT	P-O3'-C3'	-5.32	112.22	120.20
139	M6	15	DT	P-O3'-C3'	-5.32	112.22	120.20
190	R9	3	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	67	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	1213	DT	P-O3'-C3'	-5.32	112.22	120.20
29	C5	17	DT	P-O3'-C3'	-5.32	112.22	120.20
43	D8	45	DT	P-O3'-C3'	-5.32	112.22	120.20
54	E8	19	DT	P-O3'-C3'	-5.32	112.22	120.20
98	I8	6	DT	P-O3'-C3'	-5.32	112.22	120.20
107	J6	36	DT	P-O3'-C3'	-5.32	112.22	120.20
156	O2	34	DT	P-O3'-C3'	-5.32	112.22	120.20
158	O5	8	DT	P-O3'-C3'	-5.32	112.22	120.20
5	A5	26	DT	P-O3'-C3'	-5.32	112.22	120.20
7	A7	25	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	1169	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	2330	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	2762	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	3117	DT	P-O3'-C3'	-5.32	112.22	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3480	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	3531	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	3867	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	3908	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	4737	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	4957	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	5319	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	5969	DT	P-O3'-C3'	-5.32	112.22	120.20
25	BD	12	DT	P-O3'-C3'	-5.32	112.22	120.20
72	G3	21	DT	P-O3'-C3'	-5.32	112.22	120.20
98	I8	16	DT	P-O3'-C3'	-5.32	112.22	120.20
126	L2	32	DT	P-O3'-C3'	-5.32	112.22	120.20
143	MA	16	DT	P-O3'-C3'	-5.32	112.22	120.20
158	O5	23	DT	P-O3'-C3'	-5.32	112.22	120.20
222	V3	2	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	464	DT	P-O3'-C3'	-5.32	112.23	120.20
11	AB	503	DT	P-O3'-C3'	-5.32	112.23	120.20
11	AB	785	DT	P-O3'-C3'	-5.32	112.23	120.20
11	AB	1055	DT	P-O3'-C3'	-5.32	112.23	120.20
11	AB	1079	DT	P-O3'-C3'	-5.32	112.22	120.20
11	AB	1373	DT	P-O3'-C3'	-5.32	112.23	120.20
11	AB	1650	DT	P-O3'-C3'	-5.32	112.23	120.20
11	AB	1682	DT	P-O3'-C3'	-5.32	112.23	120.20
11	AB	1776	DT	P-O3'-C3'	-5.32	112.23	120.20
11	AB	1957	DT	P-O3'-C3'	-5.32	112.23	120.20
11	AB	3401	DT	P-O3'-C3'	-5.32	112.23	120.20
11	AB	3551	DT	P-O3'-C3'	-5.32	112.23	120.20
11	AB	3596	DT	P-O3'-C3'	-5.32	112.23	120.20
11	AB	5736	DT	P-O3'-C3'	-5.32	112.23	120.20
11	AB	6011	DT	P-O3'-C3'	-5.32	112.23	120.20
11	AB	6162	DT	P-O3'-C3'	-5.32	112.23	120.20
11	AB	6522	DT	P-O3'-C3'	-5.32	112.23	120.20
13	AD	5	DT	P-O3'-C3'	-5.32	112.23	120.20
22	B9	29	DT	P-O3'-C3'	-5.32	112.23	120.20
54	E8	7	DT	P-O3'-C3'	-5.32	112.23	120.20
75	G7	7	DT	P-O3'-C3'	-5.32	112.22	120.20
94	I3	7	DT	P-O3'-C3'	-5.32	112.23	120.20
130	L7	46	DT	P-O3'-C3'	-5.32	112.23	120.20
138	M5	18	DT	P-O3'-C3'	-5.32	112.23	120.20
166	P2	26	DT	P-O3'-C3'	-5.32	112.23	120.20
11	AB	163	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	1307	DT	P-O3'-C3'	-5.31	112.23	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1766	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	2255	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	2443	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	2979	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	4069	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	6079	DT	P-O3'-C3'	-5.31	112.23	120.20
21	B8	1	DT	P-O3'-C3'	-5.31	112.23	120.20
42	D7	10	DT	P-O3'-C3'	-5.31	112.23	120.20
69	FD	33	DT	P-O3'-C3'	-5.31	112.23	120.20
107	J6	24	DT	P-O3'-C3'	-5.31	112.23	120.20
154	NC	13	DT	P-O3'-C3'	-5.31	112.23	120.20
211	TD	2	DT	P-O3'-C3'	-5.31	112.23	120.20
231	W5	19	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	257	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	1086	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	2116	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	2406	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	2952	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	4580	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	4830	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	5126	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	5753	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	5826	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	5919	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	6585	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	6890	DT	P-O3'-C3'	-5.31	112.23	120.20
12	AC	10	DT	P-O3'-C3'	-5.31	112.23	120.20
15	B2	18	DT	P-O3'-C3'	-5.31	112.23	120.20
33	C9	15	DT	P-O3'-C3'	-5.31	112.23	120.20
35	CC	25	DT	P-O3'-C3'	-5.31	112.23	120.20
60	F2	32	DT	P-O3'-C3'	-5.31	112.23	120.20
67	FA	8	DT	P-O3'-C3'	-5.31	112.23	120.20
79	GC	22	DT	P-O3'-C3'	-5.31	112.23	120.20
127	L3	7	DT	P-O3'-C3'	-5.31	112.23	120.20
129	L6	14	DT	P-O3'-C3'	-5.31	112.23	120.20
130	L7	11	DT	P-O3'-C3'	-5.31	112.23	120.20
148	N5	25	DT	P-O3'-C3'	-5.31	112.23	120.20
159	O6	12	DT	P-O3'-C3'	-5.31	112.23	120.20
160	O7	9	DT	P-O3'-C3'	-5.31	112.23	120.20
170	P7	19	DT	P-O3'-C3'	-5.31	112.23	120.20
176	Q2	12	DT	P-O3'-C3'	-5.31	112.23	120.20
180	Q8	18	DT	P-O3'-C3'	-5.31	112.23	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
184	QD	27	DT	P-O3'-C3'	-5.31	112.23	120.20
210	TC	13	DT	P-O3'-C3'	-5.31	112.23	120.20
214	U5	11	DT	P-O3'-C3'	-5.31	112.23	120.20
2	A2	18	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	1042	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	4058	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	5141	DT	P-O3'-C3'	-5.31	112.23	120.20
115	K2	33	DT	P-O3'-C3'	-5.31	112.23	120.20
145	MD	17	DT	P-O3'-C3'	-5.31	112.23	120.20
169	P6	21	DT	P-O3'-C3'	-5.31	112.23	120.20
171	P8	24	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	4	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	103	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	461	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	491	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	810	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	3093	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	3177	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	5284	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	5418	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	5880	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	5994	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	6561	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	7007	DT	P-O3'-C3'	-5.31	112.24	120.20
28	C3	9	DT	P-O3'-C3'	-5.31	112.24	120.20
114	K1	20	DT	P-O3'-C3'	-5.31	112.24	120.20
139	M6	6	DT	P-O3'-C3'	-5.31	112.24	120.20
154	NC	36	DT	P-O3'-C3'	-5.31	112.24	120.20
160	O7	51	DT	P-O3'-C3'	-5.31	112.24	120.20
162	O9	9	DT	P-O3'-C3'	-5.31	112.23	120.20
179	Q7	14	DT	P-O3'-C3'	-5.31	112.24	120.20
210	TC	18	DT	P-O3'-C3'	-5.31	112.24	120.20
216	U8	6	DT	P-O3'-C3'	-5.31	112.24	120.20
224	V7	7	DT	P-O3'-C3'	-5.31	112.23	120.20
11	AB	507	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	620	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	1001	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	1324	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	1606	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	1620	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	1826	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	2222	DT	P-O3'-C3'	-5.31	112.24	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2367	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	2476	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	2736	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	3048	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	4206	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	5768	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	6451	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	6496	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	6986	DT	P-O3'-C3'	-5.31	112.24	120.20
26	C1	7	DT	P-O3'-C3'	-5.31	112.24	120.20
29	C5	30	DT	P-O3'-C3'	-5.31	112.24	120.20
37	D1	38	DT	P-O3'-C3'	-5.31	112.24	120.20
49	E2	9	DT	P-O3'-C3'	-5.31	112.24	120.20
89	HA	18	DT	P-O3'-C3'	-5.31	112.24	120.20
98	I8	40	DT	P-O3'-C3'	-5.31	112.24	120.20
104	J2	38	DT	P-O3'-C3'	-5.31	112.24	120.20
122	KA	9	DT	P-O3'-C3'	-5.31	112.24	120.20
133	LA	21	DT	P-O3'-C3'	-5.31	112.24	120.20
135	LD	10	DT	P-O3'-C3'	-5.31	112.24	120.20
136	M2	13	DT	P-O3'-C3'	-5.31	112.24	120.20
138	M5	20	DT	P-O3'-C3'	-5.31	112.24	120.20
146	N2	18	DT	P-O3'-C3'	-5.31	112.24	120.20
167	P3	27	DT	P-O3'-C3'	-5.31	112.24	120.20
175	PD	15	DT	P-O3'-C3'	-5.31	112.24	120.20
180	Q8	27	DT	P-O3'-C3'	-5.31	112.24	120.20
196	S5	5	DT	P-O3'-C3'	-5.31	112.24	120.20
221	V2	2	DT	P-O3'-C3'	-5.31	112.24	120.20
221	V2	8	DT	P-O3'-C3'	-5.31	112.24	120.20
238	X9	47	DT	P-O3'-C3'	-5.31	112.24	120.20
4	A4	32	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	617	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	1745	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	1934	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	2349	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	2575	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	2693	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	2945	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	4417	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	6341	DT	P-O3'-C3'	-5.31	112.24	120.20
11	AB	6552	DT	P-O3'-C3'	-5.31	112.24	120.20
17	B4	7	DT	P-O3'-C3'	-5.31	112.24	120.20
26	C1	21	DT	P-O3'-C3'	-5.31	112.24	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	D1	2	DT	P-O3'-C3'	-5.31	112.24	120.20
52	E6	2	DT	P-O3'-C3'	-5.31	112.24	120.20
118	K6	21	DT	P-O3'-C3'	-5.31	112.24	120.20
159	O6	3	DT	P-O3'-C3'	-5.31	112.24	120.20
182	QA	25	DT	P-O3'-C3'	-5.31	112.24	120.20
227	VA	13	DT	P-O3'-C3'	-5.31	112.24	120.20
8	A8	14	DT	P-O3'-C3'	-5.30	112.24	120.20
11	AB	1233	DT	P-O3'-C3'	-5.30	112.24	120.20
11	AB	1455	DT	P-O3'-C3'	-5.30	112.24	120.20
11	AB	1482	DT	P-O3'-C3'	-5.30	112.24	120.20
11	AB	1543	DT	P-O3'-C3'	-5.30	112.24	120.20
11	AB	2402	DT	P-O3'-C3'	-5.30	112.24	120.20
11	AB	3017	DT	P-O3'-C3'	-5.30	112.24	120.20
11	AB	3669	DT	P-O3'-C3'	-5.30	112.24	120.20
11	AB	4309	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	4350	DT	P-O3'-C3'	-5.30	112.24	120.20
11	AB	5646	DT	P-O3'-C3'	-5.30	112.24	120.20
11	AB	5674	DT	P-O3'-C3'	-5.30	112.24	120.20
11	AB	5690	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	6468	DT	P-O3'-C3'	-5.30	112.24	120.20
11	AB	6762	DT	P-O3'-C3'	-5.30	112.24	120.20
24	BC	18	DT	P-O3'-C3'	-5.30	112.24	120.20
29	C5	8	DT	P-O3'-C3'	-5.30	112.24	120.20
39	D3	23	DT	P-O3'-C3'	-5.30	112.24	120.20
51	E5	14	DT	P-O3'-C3'	-5.30	112.24	120.20
58	ED	15	DT	P-O3'-C3'	-5.30	112.24	120.20
63	F6	18	DT	P-O3'-C3'	-5.30	112.24	120.20
92	I1	20	DT	P-O3'-C3'	-5.30	112.25	120.20
94	I3	3	DT	P-O3'-C3'	-5.30	112.24	120.20
94	I3	25	DT	P-O3'-C3'	-5.30	112.24	120.20
108	J7	25	DT	P-O3'-C3'	-5.30	112.24	120.20
113	JD	22	DT	P-O3'-C3'	-5.30	112.24	120.20
155	ND	17	DT	P-O3'-C3'	-5.30	112.25	120.20
165	OD	4	DT	P-O3'-C3'	-5.30	112.24	120.20
165	OD	47	DT	P-O3'-C3'	-5.30	112.24	120.20
181	Q9	30	DT	P-O3'-C3'	-5.30	112.25	120.20
190	R9	16	DT	P-O3'-C3'	-5.30	112.24	120.20
193	RD	10	DT	P-O3'-C3'	-5.30	112.24	120.20
193	RD	21	DT	P-O3'-C3'	-5.30	112.24	120.20
238	X9	27	DT	P-O3'-C3'	-5.30	112.24	120.20
4	A4	30	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	296	DT	P-O3'-C3'	-5.30	112.25	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	689	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	741	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	1759	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	3027	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	4699	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	4875	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	5349	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	5810	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	5937	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	6828	DT	P-O3'-C3'	-5.30	112.25	120.20
44	D9	8	DT	P-O3'-C3'	-5.30	112.25	120.20
89	HA	7	DT	P-O3'-C3'	-5.30	112.25	120.20
107	J6	31	DT	P-O3'-C3'	-5.30	112.25	120.20
125	L1	38	DT	P-O3'-C3'	-5.30	112.25	120.20
131	L8	28	DT	P-O3'-C3'	-5.30	112.25	120.20
141	M8	22	DT	P-O3'-C3'	-5.30	112.25	120.20
145	MD	47	DT	P-O3'-C3'	-5.30	112.25	120.20
178	Q5	25	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	341	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	1357	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	1397	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	2051	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	2129	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	2494	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	2585	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	2748	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	2750	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	2963	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	3201	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	6375	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	7097	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	7152	DT	P-O3'-C3'	-5.30	112.25	120.20
13	AD	23	DT	P-O3'-C3'	-5.30	112.25	120.20
23	BA	22	DT	P-O3'-C3'	-5.30	112.25	120.20
34	CA	3	DT	P-O3'-C3'	-5.30	112.25	120.20
35	CC	5	DT	P-O3'-C3'	-5.30	112.25	120.20
40	D5	22	DT	P-O3'-C3'	-5.30	112.25	120.20
52	E6	10	DT	P-O3'-C3'	-5.30	112.25	120.20
53	E7	22	DT	P-O3'-C3'	-5.30	112.25	120.20
60	F2	16	DT	P-O3'-C3'	-5.30	112.25	120.20
82	H2	50	DT	P-O3'-C3'	-5.30	112.25	120.20
85	H6	2	DT	P-O3'-C3'	-5.30	112.25	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
101	IC	9	DT	P-O3'-C3'	-5.30	112.25	120.20
117	K5	1	DT	P-O3'-C3'	-5.30	112.25	120.20
149	N6	16	DT	P-O3'-C3'	-5.30	112.25	120.20
150	N7	10	DC	P-O3'-C3'	-5.30	112.25	120.20
168	P5	13	DT	P-O3'-C3'	-5.30	112.25	120.20
176	Q2	20	DT	P-O3'-C3'	-5.30	112.25	120.20
189	R8	9	DT	P-O3'-C3'	-5.30	112.25	120.20
211	TD	26	DT	P-O3'-C3'	-5.30	112.25	120.20
219	UC	16	DT	P-O3'-C3'	-5.30	112.25	120.20
236	X5	21	DT	P-O3'-C3'	-5.30	112.25	120.20
236	X5	23	DT	P-O3'-C3'	-5.30	112.25	120.20
238	X9	41	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	646	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	715	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	1496	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	2498	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	4031	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	4786	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	4954	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	5339	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	5368	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	5504	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	5653	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	6198	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	6360	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	6528	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	6654	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	7134	DT	P-O3'-C3'	-5.30	112.25	120.20
26	C1	5	DT	P-O3'-C3'	-5.30	112.25	120.20
26	C1	16	DT	P-O3'-C3'	-5.30	112.25	120.20
39	D3	17	DT	P-O3'-C3'	-5.30	112.25	120.20
43	D8	1	DT	P-O3'-C3'	-5.30	112.25	120.20
51	E5	32	DT	P-O3'-C3'	-5.30	112.25	120.20
64	F7	25	DT	P-O3'-C3'	-5.30	112.25	120.20
71	G2	14	DT	P-O3'-C3'	-5.30	112.25	120.20
74	G6	10	DT	P-O3'-C3'	-5.30	112.25	120.20
80	GD	8	DT	P-O3'-C3'	-5.30	112.25	120.20
81	H1	8	DT	P-O3'-C3'	-5.30	112.25	120.20
109	J8	5	DT	P-O3'-C3'	-5.30	112.25	120.20
116	K3	11	DT	P-O3'-C3'	-5.30	112.25	120.20
122	KA	38	DT	P-O3'-C3'	-5.30	112.25	120.20
146	N2	12	DT	P-O3'-C3'	-5.30	112.25	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
173	PA	32	DT	P-O3'-C3'	-5.30	112.25	120.20
177	Q3	13	DT	P-O3'-C3'	-5.30	112.25	120.20
189	R8	17	DT	P-O3'-C3'	-5.30	112.25	120.20
203	T2	8	DT	P-O3'-C3'	-5.30	112.25	120.20
208	T9	6	DT	P-O3'-C3'	-5.30	112.25	120.20
212	U2	6	DT	P-O3'-C3'	-5.30	112.25	120.20
212	U2	15	DT	P-O3'-C3'	-5.30	112.25	120.20
214	U5	31	DT	P-O3'-C3'	-5.30	112.25	120.20
237	X7	1	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	1237	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	2928	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	3248	DT	P-O3'-C3'	-5.30	112.25	120.20
13	AD	12	DT	P-O3'-C3'	-5.30	112.25	120.20
55	E9	6	DT	P-O3'-C3'	-5.30	112.25	120.20
87	H8	16	DT	P-O3'-C3'	-5.30	112.25	120.20
123	KC	6	DT	P-O3'-C3'	-5.30	112.25	120.20
129	L6	10	DT	P-O3'-C3'	-5.30	112.25	120.20
173	PA	19	DT	P-O3'-C3'	-5.30	112.25	120.20
203	T2	19	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	2	DT	P-O3'-C3'	-5.30	112.26	120.20
11	AB	178	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	392	DT	P-O3'-C3'	-5.30	112.26	120.20
11	AB	1409	DT	P-O3'-C3'	-5.30	112.26	120.20
11	AB	1412	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	1708	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	2111	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	2670	DT	P-O3'-C3'	-5.30	112.26	120.20
11	AB	3006	DT	P-O3'-C3'	-5.30	112.26	120.20
11	AB	3183	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	3195	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	3258	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	3312	DT	P-O3'-C3'	-5.30	112.26	120.20
11	AB	3483	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	3744	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	3801	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	3930	DT	P-O3'-C3'	-5.30	112.26	120.20
11	AB	4392	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	4815	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	5164	DT	P-O3'-C3'	-5.30	112.26	120.20
11	AB	5331	DT	P-O3'-C3'	-5.30	112.26	120.20
11	AB	5563	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	5711	DT	P-O3'-C3'	-5.30	112.26	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5835	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	5838	DT	P-O3'-C3'	-5.30	112.26	120.20
11	AB	6007	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	6237	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	6427	DT	P-O3'-C3'	-5.30	112.25	120.20
11	AB	6701	DT	P-O3'-C3'	-5.30	112.25	120.20
20	B7	6	DT	P-O3'-C3'	-5.30	112.25	120.20
21	B8	13	DT	P-O3'-C3'	-5.30	112.26	120.20
67	FA	25	DT	P-O3'-C3'	-5.30	112.26	120.20
73	G5	17	DT	P-O3'-C3'	-5.30	112.25	120.20
78	GA	4	DT	P-O3'-C3'	-5.30	112.25	120.20
91	HD	7	DT	P-O3'-C3'	-5.30	112.25	120.20
102	ID	27	DT	P-O3'-C3'	-5.30	112.26	120.20
141	M8	25	DT	P-O3'-C3'	-5.30	112.25	120.20
165	OD	25	DT	P-O3'-C3'	-5.30	112.25	120.20
192	RC	18	DT	P-O3'-C3'	-5.30	112.26	120.20
206	T7	47	DT	P-O3'-C3'	-5.30	112.26	120.20
228	VC	37	DT	P-O3'-C3'	-5.30	112.26	120.20
237	X7	22	DT	P-O3'-C3'	-5.30	112.25	120.20
1	A1	1	DT	P-O3'-C3'	-5.29	112.26	120.20
2	A2	29	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	1452	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	2287	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	2470	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	2630	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	4715	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	6924	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	7041	DT	P-O3'-C3'	-5.29	112.26	120.20
21	B8	24	DT	P-O3'-C3'	-5.29	112.26	120.20
93	I2	11	DT	P-O3'-C3'	-5.29	112.26	120.20
110	J9	5	DT	P-O3'-C3'	-5.29	112.26	120.20
112	JC	15	DT	P-O3'-C3'	-5.29	112.26	120.20
130	L7	4	DT	P-O3'-C3'	-5.29	112.26	120.20
171	P8	19	DT	P-O3'-C3'	-5.29	112.26	120.20
206	T7	26	DT	P-O3'-C3'	-5.29	112.26	120.20
211	TD	14	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	509	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	596	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	654	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	1504	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	2199	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	2571	DT	P-O3'-C3'	-5.29	112.26	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4798	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	6500	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	6704	DT	P-O3'-C3'	-5.29	112.26	120.20
16	B3	20	DT	P-O3'-C3'	-5.29	112.26	120.20
19	B6	18	DT	P-O3'-C3'	-5.29	112.26	120.20
40	D5	12	DT	P-O3'-C3'	-5.29	112.26	120.20
68	FC	15	DT	P-O3'-C3'	-5.29	112.26	120.20
70	G1	1	DT	P-O3'-C3'	-5.29	112.26	120.20
72	G3	5	DT	P-O3'-C3'	-5.29	112.26	120.20
100	IA	15	DT	P-O3'-C3'	-5.29	112.26	120.20
105	J3	28	DT	P-O3'-C3'	-5.29	112.26	120.20
125	L1	43	DT	P-O3'-C3'	-5.29	112.26	120.20
162	O9	19	DT	P-O3'-C3'	-5.29	112.26	120.20
170	P7	8	DT	P-O3'-C3'	-5.29	112.26	120.20
170	P7	15	DT	P-O3'-C3'	-5.29	112.26	120.20
211	TD	19	DT	P-O3'-C3'	-5.29	112.26	120.20
211	TD	34	DT	P-O3'-C3'	-5.29	112.26	120.20
212	U2	23	DT	P-O3'-C3'	-5.29	112.26	120.20
219	UC	19	DT	P-O3'-C3'	-5.29	112.26	120.20
228	VC	2	DT	P-O3'-C3'	-5.29	112.26	120.20
228	VC	10	DT	P-O3'-C3'	-5.29	112.26	120.20
228	VC	27	DT	P-O3'-C3'	-5.29	112.26	120.20
1	A1	38	DT	P-O3'-C3'	-5.29	112.26	120.20
9	A9	16	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	501	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	668	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	732	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	1528	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	1567	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	1763	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	1985	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	2369	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	3980	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	6372	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	7162	DT	P-O3'-C3'	-5.29	112.26	120.20
50	E3	8	DT	P-O3'-C3'	-5.29	112.26	120.20
58	ED	27	DT	P-O3'-C3'	-5.29	112.26	120.20
62	F5	22	DT	P-O3'-C3'	-5.29	112.26	120.20
69	FD	13	DT	P-O3'-C3'	-5.29	112.26	120.20
73	G5	10	DT	P-O3'-C3'	-5.29	112.26	120.20
87	H8	7	DT	P-O3'-C3'	-5.29	112.26	120.20
119	K7	30	DT	P-O3'-C3'	-5.29	112.26	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
164	OC	27	DT	P-O3'-C3'	-5.29	112.26	120.20
176	Q2	17	DT	P-O3'-C3'	-5.29	112.26	120.20
200	SA	18	DT	P-O3'-C3'	-5.29	112.26	120.20
209	TA	35	DT	P-O3'-C3'	-5.29	112.26	120.20
226	V9	33	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	1687	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	2783	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	3060	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	3281	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	3708	DT	P-O3'-C3'	-5.29	112.26	120.20
11	AB	5159	DC	P-O3'-C3'	-5.29	112.26	120.20
11	AB	5402	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	5618	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	5629	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	6294	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	6480	DT	P-O3'-C3'	-5.29	112.27	120.20
49	E2	26	DT	P-O3'-C3'	-5.29	112.27	120.20
58	ED	5	DT	P-O3'-C3'	-5.29	112.27	120.20
82	H2	26	DT	P-O3'-C3'	-5.29	112.26	120.20
108	J7	44	DT	P-O3'-C3'	-5.29	112.27	120.20
125	L1	17	DT	P-O3'-C3'	-5.29	112.27	120.20
132	L9	3	DT	P-O3'-C3'	-5.29	112.27	120.20
138	M5	40	DT	P-O3'-C3'	-5.29	112.27	120.20
150	N7	16	DT	P-O3'-C3'	-5.29	112.27	120.20
152	N9	36	DT	P-O3'-C3'	-5.29	112.27	120.20
157	O3	16	DT	P-O3'-C3'	-5.29	112.27	120.20
158	O5	30	DT	P-O3'-C3'	-5.29	112.27	120.20
172	P9	6	DT	P-O3'-C3'	-5.29	112.27	120.20
189	R8	6	DT	P-O3'-C3'	-5.29	112.26	120.20
227	VA	25	DT	P-O3'-C3'	-5.29	112.27	120.20
230	W3	26	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	599	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	1202	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	2126	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	2561	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	2939	DC	P-O3'-C3'	-5.29	112.27	120.20
11	AB	3321	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	4677	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	5342	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	6234	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	6369	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	6593	DT	P-O3'-C3'	-5.29	112.27	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6668	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	6783	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	7088	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	7222	DT	P-O3'-C3'	-5.29	112.27	120.20
41	D6	31	DT	P-O3'-C3'	-5.29	112.27	120.20
53	E7	6	DT	P-O3'-C3'	-5.29	112.27	120.20
62	F5	36	DT	P-O3'-C3'	-5.29	112.27	120.20
105	J3	21	DT	P-O3'-C3'	-5.29	112.27	120.20
113	JD	20	DT	P-O3'-C3'	-5.29	112.27	120.20
120	K8	12	DT	P-O3'-C3'	-5.29	112.27	120.20
142	M9	10	DT	P-O3'-C3'	-5.29	112.27	120.20
173	PA	25	DT	P-O3'-C3'	-5.29	112.27	120.20
181	Q9	23	DT	P-O3'-C3'	-5.29	112.27	120.20
226	V9	9	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	796	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	1946	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	2162	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	2240	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	2247	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	2282	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	2704	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	3557	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	5714	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	5999	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	6639	DT	P-O3'-C3'	-5.29	112.27	120.20
16	B3	9	DT	P-O3'-C3'	-5.29	112.27	120.20
64	F7	28	DT	P-O3'-C3'	-5.29	112.27	120.20
72	G3	16	DT	P-O3'-C3'	-5.29	112.27	120.20
150	N7	1	DT	P-O3'-C3'	-5.29	112.27	120.20
152	N9	6	DT	P-O3'-C3'	-5.29	112.27	120.20
159	O6	17	DT	P-O3'-C3'	-5.29	112.27	120.20
178	Q5	33	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	291	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	1220	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	1609	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	1817	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	2069	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	2323	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	2457	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	3091	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	3339	DC	P-O3'-C3'	-5.29	112.27	120.20
11	AB	4102	DT	P-O3'-C3'	-5.29	112.27	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4291	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	4353	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	5519	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	5803	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	6034	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	6108	DT	P-O3'-C3'	-5.29	112.27	120.20
30	C6	18	DC	P-O3'-C3'	-5.29	112.27	120.20
88	H9	2	DT	P-O3'-C3'	-5.29	112.27	120.20
121	K9	14	DT	P-O3'-C3'	-5.29	112.27	120.20
132	L9	1	DT	P-O3'-C3'	-5.29	112.27	120.20
135	LD	12	DC	P-O3'-C3'	-5.29	112.27	120.20
141	M8	12	DT	P-O3'-C3'	-5.29	112.27	120.20
161	O8	7	DT	P-O3'-C3'	-5.29	112.27	120.20
190	R9	21	DT	P-O3'-C3'	-5.29	112.27	120.20
191	RA	19	DT	P-O3'-C3'	-5.29	112.27	120.20
11	AB	239	DT	P-O3'-C3'	-5.28	112.27	120.20
11	AB	752	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	1013	DT	P-O3'-C3'	-5.28	112.27	120.20
11	AB	1381	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	1595	DT	P-O3'-C3'	-5.28	112.27	120.20
11	AB	1783	DT	P-O3'-C3'	-5.28	112.27	120.20
11	AB	1879	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	2006	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	2101	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	2421	DT	P-O3'-C3'	-5.28	112.27	120.20
11	AB	3255	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	5210	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	5432	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	5438	DT	P-O3'-C3'	-5.28	112.27	120.20
11	AB	5495	DT	P-O3'-C3'	-5.28	112.27	120.20
11	AB	5543	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	5915	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	6266	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	7005	DT	P-O3'-C3'	-5.28	112.27	120.20
31	C7	24	DT	P-O3'-C3'	-5.28	112.27	120.20
34	CA	6	DT	P-O3'-C3'	-5.28	112.28	120.20
36	CD	20	DT	P-O3'-C3'	-5.28	112.28	120.20
43	D8	12	DT	P-O3'-C3'	-5.28	112.28	120.20
46	DC	10	DT	P-O3'-C3'	-5.28	112.28	120.20
58	ED	41	DT	P-O3'-C3'	-5.28	112.27	120.20
74	G6	25	DT	P-O3'-C3'	-5.28	112.27	120.20
75	G7	12	DT	P-O3'-C3'	-5.28	112.28	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
84	H5	16	DT	P-O3'-C3'	-5.28	112.27	120.20
102	ID	10	DT	P-O3'-C3'	-5.28	112.28	120.20
104	J2	41	DT	P-O3'-C3'	-5.28	112.27	120.20
122	KA	20	DT	P-O3'-C3'	-5.28	112.28	120.20
130	L7	51	DT	P-O3'-C3'	-5.28	112.27	120.20
131	L8	14	DT	P-O3'-C3'	-5.28	112.28	120.20
132	L9	8	DT	P-O3'-C3'	-5.28	112.27	120.20
158	O5	16	DT	P-O3'-C3'	-5.28	112.28	120.20
166	P2	7	DT	P-O3'-C3'	-5.28	112.27	120.20
172	P9	21	DC	P-O3'-C3'	-5.28	112.28	120.20
198	S8	11	DT	P-O3'-C3'	-5.28	112.28	120.20
202	SD	29	DT	P-O3'-C3'	-5.28	112.28	120.20
221	V2	23	DT	P-O3'-C3'	-5.28	112.27	120.20
225	V8	18	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	192	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	656	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	6232	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	6321	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	6920	DT	P-O3'-C3'	-5.28	112.28	120.20
15	B2	12	DT	P-O3'-C3'	-5.28	112.28	120.20
33	C9	21	DT	P-O3'-C3'	-5.28	112.28	120.20
47	DD	22	DT	P-O3'-C3'	-5.28	112.28	120.20
72	G3	24	DC	P-O3'-C3'	-5.28	112.28	120.20
105	J3	13	DT	P-O3'-C3'	-5.28	112.28	120.20
138	M5	26	DT	P-O3'-C3'	-5.28	112.28	120.20
177	Q3	25	DT	P-O3'-C3'	-5.28	112.28	120.20
203	T2	15	DT	P-O3'-C3'	-5.28	112.28	120.20
211	TD	7	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	555	DC	P-O3'-C3'	-5.28	112.28	120.20
11	AB	1148	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	1289	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	1359	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	1868	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	2597	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	2958	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	3383	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	3612	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	3783	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	3831	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	3996	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	4245	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	4415	DT	P-O3'-C3'	-5.28	112.28	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	B6	10	DT	P-O3'-C3'	-5.28	112.28	120.20
32	C8	2	DT	P-O3'-C3'	-5.28	112.28	120.20
40	D5	9	DT	P-O3'-C3'	-5.28	112.28	120.20
43	D8	3	DT	P-O3'-C3'	-5.28	112.28	120.20
44	D9	11	DT	P-O3'-C3'	-5.28	112.28	120.20
48	E1	27	DT	P-O3'-C3'	-5.28	112.28	120.20
49	E2	35	DT	P-O3'-C3'	-5.28	112.28	120.20
50	E3	12	DT	P-O3'-C3'	-5.28	112.28	120.20
67	FA	16	DT	P-O3'-C3'	-5.28	112.28	120.20
68	FC	12	DT	P-O3'-C3'	-5.28	112.28	120.20
93	I2	33	DT	P-O3'-C3'	-5.28	112.28	120.20
113	JD	16	DT	P-O3'-C3'	-5.28	112.28	120.20
155	ND	1	DT	P-O3'-C3'	-5.28	112.28	120.20
177	Q3	6	DT	P-O3'-C3'	-5.28	112.28	120.20
198	S8	41	DT	P-O3'-C3'	-5.28	112.28	120.20
207	T8	10	DT	P-O3'-C3'	-5.28	112.28	120.20
230	W3	22	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	95	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	254	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	632	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	696	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	1795	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	2303	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	2605	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	3036	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	3849	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	5244	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	5444	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	6054	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	6588	DT	P-O3'-C3'	-5.28	112.28	120.20
69	FD	27	DT	P-O3'-C3'	-5.28	112.28	120.20
96	I6	13	DT	P-O3'-C3'	-5.28	112.28	120.20
111	JA	2	DT	P-O3'-C3'	-5.28	112.28	120.20
121	K9	22	DT	P-O3'-C3'	-5.28	112.28	120.20
230	W3	2	DT	P-O3'-C3'	-5.28	112.28	120.20
233	W8	23	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	55	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	334	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	981	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	1537	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	2087	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	2327	DC	P-O3'-C3'	-5.28	112.28	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2431	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	2503	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	2567	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	2770	DC	P-O3'-C3'	-5.28	112.28	120.20
11	AB	3336	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	3537	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	3852	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	4402	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	4839	DC	P-O3'-C3'	-5.28	112.28	120.20
11	AB	6095	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	6471	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	7063	DT	P-O3'-C3'	-5.28	112.28	120.20
22	B9	48	DT	P-O3'-C3'	-5.28	112.28	120.20
51	E5	17	DT	P-O3'-C3'	-5.28	112.28	120.20
57	EC	17	DT	P-O3'-C3'	-5.28	112.28	120.20
66	F9	21	DT	P-O3'-C3'	-5.28	112.28	120.20
77	G9	3	DT	P-O3'-C3'	-5.28	112.28	120.20
109	J8	36	DT	P-O3'-C3'	-5.28	112.28	120.20
115	K2	18	DC	P-O3'-C3'	-5.28	112.28	120.20
152	N9	50	DT	P-O3'-C3'	-5.28	112.28	120.20
185	R2	2	DT	P-O3'-C3'	-5.28	112.28	120.20
197	S7	20	DC	P-O3'-C3'	-5.28	112.28	120.20
6	A6	25	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	1377	DT	P-O3'-C3'	-5.28	112.29	120.20
11	AB	1995	DT	P-O3'-C3'	-5.28	112.29	120.20
11	AB	2227	DT	P-O3'-C3'	-5.28	112.29	120.20
11	AB	2376	DT	P-O3'-C3'	-5.28	112.29	120.20
11	AB	2439	DT	P-O3'-C3'	-5.28	112.29	120.20
11	AB	2938	DC	P-O3'-C3'	-5.28	112.28	120.20
11	AB	3506	DT	P-O3'-C3'	-5.28	112.29	120.20
11	AB	3572	DT	P-O3'-C3'	-5.28	112.29	120.20
11	AB	6351	DT	P-O3'-C3'	-5.28	112.29	120.20
11	AB	6380	DC	P-O3'-C3'	-5.28	112.29	120.20
11	AB	6575	DT	P-O3'-C3'	-5.28	112.29	120.20
11	AB	6803	DT	P-O3'-C3'	-5.28	112.28	120.20
11	AB	6958	DT	P-O3'-C3'	-5.28	112.29	120.20
11	AB	7092	DT	P-O3'-C3'	-5.28	112.29	120.20
88	H9	7	DT	P-O3'-C3'	-5.28	112.28	120.20
126	L2	53	DT	P-O3'-C3'	-5.28	112.29	120.20
168	P5	16	DT	P-O3'-C3'	-5.28	112.29	120.20
178	Q5	13	DT	P-O3'-C3'	-5.28	112.29	120.20
179	Q7	23	DC	P-O3'-C3'	-5.28	112.29	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
208	T9	10	DT	P-O3'-C3'	-5.28	112.29	120.20
11	AB	11	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	471	DC	P-O3'-C3'	-5.27	112.29	120.20
11	AB	1402	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	2708	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	3264	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	3798	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	5370	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	5414	DT	P-O3'-C3'	-5.27	112.29	120.20
69	FD	10	DT	P-O3'-C3'	-5.27	112.29	120.20
109	J8	51	DT	P-O3'-C3'	-5.27	112.29	120.20
110	J9	8	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	363	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	368	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	1513	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	1533	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	1955	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	2902	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	3227	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	3786	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	5291	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	5550	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	6172	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	6456	DT	P-O3'-C3'	-5.27	112.29	120.20
14	B1	12	DT	P-O3'-C3'	-5.27	112.29	120.20
41	D6	41	DT	P-O3'-C3'	-5.27	112.29	120.20
97	I7	15	DT	P-O3'-C3'	-5.27	112.29	120.20
138	M5	24	DT	P-O3'-C3'	-5.27	112.29	120.20
149	N6	29	DT	P-O3'-C3'	-5.27	112.29	120.20
182	QA	12	DT	P-O3'-C3'	-5.27	112.29	120.20
219	UC	21	DT	P-O3'-C3'	-5.27	112.29	120.20
1	A1	54	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	226	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	537	DC	P-O3'-C3'	-5.27	112.29	120.20
11	AB	1097	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	1564	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	1939	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	2993	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	4014	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	5747	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	6047	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	6843	DT	P-O3'-C3'	-5.27	112.29	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	C7	8	DT	P-O3'-C3'	-5.27	112.29	120.20
35	CC	11	DC	P-O3'-C3'	-5.27	112.29	120.20
37	D1	25	DC	P-O3'-C3'	-5.27	112.29	120.20
43	D8	26	DC	P-O3'-C3'	-5.27	112.29	120.20
52	E6	34	DC	P-O3'-C3'	-5.27	112.29	120.20
59	F1	8	DC	P-O3'-C3'	-5.27	112.29	120.20
62	F5	40	DT	P-O3'-C3'	-5.27	112.29	120.20
93	I2	48	DC	P-O3'-C3'	-5.27	112.29	120.20
117	K5	19	DC	P-O3'-C3'	-5.27	112.29	120.20
122	KA	47	DT	P-O3'-C3'	-5.27	112.29	120.20
137	M3	22	DT	P-O3'-C3'	-5.27	112.29	120.20
152	N9	13	DT	P-O3'-C3'	-5.27	112.29	120.20
156	O2	43	DT	P-O3'-C3'	-5.27	112.29	120.20
165	OD	18	DT	P-O3'-C3'	-5.27	112.29	120.20
182	QA	27	DT	P-O3'-C3'	-5.27	112.29	120.20
5	A5	4	DT	P-O3'-C3'	-5.27	112.30	120.20
11	AB	560	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	684	DC	P-O3'-C3'	-5.27	112.30	120.20
11	AB	1698	DT	P-O3'-C3'	-5.27	112.30	120.20
11	AB	1973	DT	P-O3'-C3'	-5.27	112.30	120.20
11	AB	2357	DT	P-O3'-C3'	-5.27	112.30	120.20
11	AB	2639	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	2965	DT	P-O3'-C3'	-5.27	112.30	120.20
11	AB	3041	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	3882	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	4575	DC	P-O3'-C3'	-5.27	112.30	120.20
11	AB	4974	DC	P-O3'-C3'	-5.27	112.30	120.20
11	AB	5089	DT	P-O3'-C3'	-5.27	112.29	120.20
11	AB	5186	DC	P-O3'-C3'	-5.27	112.30	120.20
11	AB	5820	DT	P-O3'-C3'	-5.27	112.30	120.20
19	B6	4	DT	P-O3'-C3'	-5.27	112.30	120.20
20	B7	10	DC	P-O3'-C3'	-5.27	112.30	120.20
24	BC	30	DC	P-O3'-C3'	-5.27	112.30	120.20
25	BD	18	DT	P-O3'-C3'	-5.27	112.30	120.20
45	DA	15	DC	P-O3'-C3'	-5.27	112.30	120.20
103	J1	2	DC	P-O3'-C3'	-5.27	112.30	120.20
104	J2	4	DC	P-O3'-C3'	-5.27	112.30	120.20
106	J5	15	DT	P-O3'-C3'	-5.27	112.30	120.20
117	K5	6	DT	P-O3'-C3'	-5.27	112.30	120.20
124	KD	10	DT	P-O3'-C3'	-5.27	112.30	120.20
158	O5	44	DT	P-O3'-C3'	-5.27	112.30	120.20
166	P2	29	DC	P-O3'-C3'	-5.27	112.30	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
180	Q8	12	DC	P-O3'-C3'	-5.27	112.30	120.20
227	VA	28	DT	P-O3'-C3'	-5.27	112.30	120.20
232	W7	14	DT	P-O3'-C3'	-5.27	112.30	120.20
5	A5	17	DT	P-O3'-C3'	-5.27	112.30	120.20
6	A6	16	DC	P-O3'-C3'	-5.27	112.30	120.20
11	AB	380	DT	P-O3'-C3'	-5.27	112.30	120.20
11	AB	5308	DT	P-O3'-C3'	-5.27	112.30	120.20
11	AB	5360	DT	P-O3'-C3'	-5.27	112.30	120.20
11	AB	6325	DT	P-O3'-C3'	-5.27	112.30	120.20
11	AB	6680	DT	P-O3'-C3'	-5.27	112.30	120.20
11	AB	7079	DT	P-O3'-C3'	-5.27	112.30	120.20
13	AD	20	DT	P-O3'-C3'	-5.27	112.30	120.20
47	DD	36	DT	P-O3'-C3'	-5.27	112.30	120.20
54	E8	34	DC	P-O3'-C3'	-5.27	112.30	120.20
70	G1	17	DT	P-O3'-C3'	-5.27	112.30	120.20
75	G7	27	DC	P-O3'-C3'	-5.27	112.30	120.20
79	GC	24	DC	P-O3'-C3'	-5.27	112.30	120.20
99	I9	1	DT	P-O3'-C3'	-5.27	112.30	120.20
139	M6	1	DC	P-O3'-C3'	-5.27	112.30	120.20
143	MA	26	DC	P-O3'-C3'	-5.27	112.30	120.20
145	MD	35	DT	P-O3'-C3'	-5.27	112.30	120.20
150	N7	11	DC	P-O3'-C3'	-5.27	112.30	120.20
190	R9	24	DT	P-O3'-C3'	-5.27	112.30	120.20
190	R9	38	DT	P-O3'-C3'	-5.27	112.30	120.20
195	S3	20	DT	P-O3'-C3'	-5.27	112.30	120.20
215	U7	9	DT	P-O3'-C3'	-5.27	112.30	120.20
221	V2	19	DC	P-O3'-C3'	-5.27	112.30	120.20
237	X7	4	DT	P-O3'-C3'	-5.27	112.30	120.20
5	A5	21	DT	P-O3'-C3'	-5.27	112.30	120.20
11	AB	3489	DC	P-O3'-C3'	-5.27	112.30	120.20
11	AB	4137	DT	P-O3'-C3'	-5.27	112.30	120.20
11	AB	5523	DT	P-O3'-C3'	-5.27	112.30	120.20
11	AB	5724	DT	P-O3'-C3'	-5.27	112.30	120.20
11	AB	6026	DT	P-O3'-C3'	-5.27	112.30	120.20
80	GD	17	DT	P-O3'-C3'	-5.27	112.30	120.20
108	J7	37	DT	P-O3'-C3'	-5.27	112.30	120.20
215	U7	4	DT	P-O3'-C3'	-5.27	112.30	120.20
8	A8	8	DT	P-O3'-C3'	-5.26	112.30	120.20
8	A8	18	DT	P-O3'-C3'	-5.26	112.30	120.20
11	AB	564	DC	P-O3'-C3'	-5.26	112.30	120.20
11	AB	1576	DT	P-O3'-C3'	-5.26	112.30	120.20
11	AB	2245	DT	P-O3'-C3'	-5.26	112.30	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3135	DT	P-O3'-C3'	-5.26	112.30	120.20
11	AB	3873	DT	P-O3'-C3'	-5.26	112.30	120.20
11	AB	6509	DT	P-O3'-C3'	-5.26	112.30	120.20
37	D1	24	DC	P-O3'-C3'	-5.26	112.30	120.20
82	H2	19	DC	P-O3'-C3'	-5.26	112.30	120.20
112	JC	22	DT	P-O3'-C3'	-5.26	112.30	120.20
150	N7	18	DC	P-O3'-C3'	-5.26	112.30	120.20
197	S7	12	DC	P-O3'-C3'	-5.26	112.30	120.20
214	U5	5	DC	P-O3'-C3'	-5.26	112.30	120.20
223	V5	1	DC	P-O3'-C3'	-5.26	112.30	120.20
229	VD	20	DT	P-O3'-C3'	-5.26	112.30	120.20
3	A3	4	DT	P-O3'-C3'	-5.26	112.31	120.20
11	AB	495	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	1941	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	2274	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	4185	DC	P-O3'-C3'	-5.26	112.31	120.20
37	D1	33	DC	P-O3'-C3'	-5.26	112.31	120.20
110	J9	16	DC	P-O3'-C3'	-5.26	112.31	120.20
125	L1	31	DT	P-O3'-C3'	-5.26	112.31	120.20
158	O5	36	DC	P-O3'-C3'	-5.26	112.31	120.20
190	R9	34	DT	P-O3'-C3'	-5.26	112.31	120.20
7	A7	29	DT	P-O3'-C3'	-5.26	112.31	120.20
11	AB	1916	DT	P-O3'-C3'	-5.26	112.31	120.20
11	AB	3963	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	3976	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	4597	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	6558	DT	P-O3'-C3'	-5.26	112.31	120.20
11	AB	6605	DC	P-O3'-C3'	-5.26	112.31	120.20
24	BC	9	DC	P-O3'-C3'	-5.26	112.31	120.20
37	D1	9	DC	P-O3'-C3'	-5.26	112.31	120.20
98	I8	27	DT	P-O3'-C3'	-5.26	112.31	120.20
117	K5	34	DT	P-O3'-C3'	-5.26	112.31	120.20
181	Q9	37	DC	P-O3'-C3'	-5.26	112.31	120.20
199	S9	11	DC	P-O3'-C3'	-5.26	112.31	120.20
219	UC	24	DC	P-O3'-C3'	-5.26	112.31	120.20
225	V8	16	DT	P-O3'-C3'	-5.26	112.31	120.20
11	AB	396	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	489	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	554	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	566	DT	P-O3'-C3'	-5.26	112.31	120.20
11	AB	1657	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	2384	DT	P-O3'-C3'	-5.26	112.31	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2801	DT	P-O3'-C3'	-5.26	112.31	120.20
11	AB	3127	DT	P-O3'-C3'	-5.26	112.31	120.20
11	AB	3740	DT	P-O3'-C3'	-5.26	112.31	120.20
11	AB	4120	DT	P-O3'-C3'	-5.26	112.31	120.20
11	AB	4567	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	4866	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	5356	DT	P-O3'-C3'	-5.26	112.31	120.20
11	AB	5799	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	6847	DC	P-O3'-C3'	-5.26	112.31	120.20
24	BC	35	DT	P-O3'-C3'	-5.26	112.31	120.20
39	D3	33	DC	P-O3'-C3'	-5.26	112.31	120.20
85	H6	9	DC	P-O3'-C3'	-5.26	112.31	120.20
95	I5	26	DT	P-O3'-C3'	-5.26	112.31	120.20
138	M5	1	DC	P-O3'-C3'	-5.26	112.31	120.20
143	MA	38	DC	P-O3'-C3'	-5.26	112.31	120.20
151	N8	16	DC	P-O3'-C3'	-5.26	112.31	120.20
167	P3	22	DC	P-O3'-C3'	-5.26	112.31	120.20
173	PA	9	DC	P-O3'-C3'	-5.26	112.31	120.20
191	RA	12	DC	P-O3'-C3'	-5.26	112.31	120.20
215	U7	18	DC	P-O3'-C3'	-5.26	112.31	120.20
226	V9	30	DC	P-O3'-C3'	-5.26	112.31	120.20
229	VD	3	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	1296	DT	P-O3'-C3'	-5.26	112.31	120.20
11	AB	4598	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	7036	DT	P-O3'-C3'	-5.26	112.31	120.20
53	E7	3	DT	P-O3'-C3'	-5.26	112.31	120.20
162	O9	17	DC	P-O3'-C3'	-5.26	112.31	120.20
196	S5	25	DT	P-O3'-C3'	-5.26	112.31	120.20
227	VA	16	DC	P-O3'-C3'	-5.26	112.31	120.20
3	A3	18	DT	P-O3'-C3'	-5.26	112.32	120.20
4	A4	20	DT	P-O3'-C3'	-5.26	112.31	120.20
11	AB	1673	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	3052	DC	P-O3'-C3'	-5.26	112.32	120.20
11	AB	4148	DC	P-O3'-C3'	-5.26	112.32	120.20
11	AB	4163	DC	P-O3'-C3'	-5.26	112.32	120.20
11	AB	4260	DC	P-O3'-C3'	-5.26	112.32	120.20
11	AB	4564	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	5677	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	5784	DT	P-O3'-C3'	-5.26	112.32	120.20
11	AB	5868	DC	P-O3'-C3'	-5.26	112.31	120.20
11	AB	6886	DC	P-O3'-C3'	-5.26	112.32	120.20
29	C5	24	DT	P-O3'-C3'	-5.26	112.32	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	C8	22	DC	P-O3'-C3'	-5.26	112.32	120.20
37	D1	32	DC	P-O3'-C3'	-5.26	112.32	120.20
61	F3	20	DC	P-O3'-C3'	-5.26	112.32	120.20
99	I9	8	DT	P-O3'-C3'	-5.26	112.31	120.20
113	JD	31	DC	P-O3'-C3'	-5.26	112.31	120.20
117	K5	21	DC	P-O3'-C3'	-5.26	112.32	120.20
117	K5	28	DC	P-O3'-C3'	-5.26	112.31	120.20
125	L1	36	DC	P-O3'-C3'	-5.26	112.32	120.20
161	O8	16	DC	P-O3'-C3'	-5.26	112.32	120.20
198	S8	18	DC	P-O3'-C3'	-5.26	112.32	120.20
200	SA	14	DC	P-O3'-C3'	-5.26	112.31	120.20
213	U3	17	DT	P-O3'-C3'	-5.26	112.31	120.20
228	VC	18	DC	P-O3'-C3'	-5.26	112.31	120.20
236	X5	6	DC	P-O3'-C3'	-5.26	112.32	120.20
11	AB	395	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	711	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	2811	DT	P-O3'-C3'	-5.25	112.32	120.20
11	AB	3704	DT	P-O3'-C3'	-5.25	112.32	120.20
11	AB	3855	DT	P-O3'-C3'	-5.25	112.32	120.20
52	E6	31	DC	P-O3'-C3'	-5.25	112.32	120.20
60	F2	6	DC	P-O3'-C3'	-5.25	112.32	120.20
85	H6	22	DC	P-O3'-C3'	-5.25	112.32	120.20
149	N6	11	DC	P-O3'-C3'	-5.25	112.32	120.20
168	P5	4	DC	P-O3'-C3'	-5.25	112.32	120.20
5	A5	31	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	1658	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	2082	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	2229	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	5085	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	6101	DT	P-O3'-C3'	-5.25	112.32	120.20
11	AB	6694	DC	P-O3'-C3'	-5.25	112.32	120.20
30	C6	11	DC	P-O3'-C3'	-5.25	112.32	120.20
42	D7	20	DC	P-O3'-C3'	-5.25	112.32	120.20
131	L8	7	DC	P-O3'-C3'	-5.25	112.32	120.20
139	M6	17	DC	P-O3'-C3'	-5.25	112.32	120.20
141	M8	17	DC	P-O3'-C3'	-5.25	112.32	120.20
166	P2	32	DC	P-O3'-C3'	-5.25	112.32	120.20
3	A3	7	DC	P-O3'-C3'	-5.25	112.32	120.20
3	A3	8	DC	P-O3'-C3'	-5.25	112.32	120.20
6	A6	29	DC	P-O3'-C3'	-5.25	112.32	120.20
8	A8	27	DT	P-O3'-C3'	-5.25	112.32	120.20
11	AB	683	DC	P-O3'-C3'	-5.25	112.32	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	834	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	2054	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	3166	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	4390	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	4539	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	4568	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	4936	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	5266	DT	P-O3'-C3'	-5.25	112.32	120.20
11	AB	5538	DT	P-O3'-C3'	-5.25	112.32	120.20
11	AB	5595	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	5849	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	5991	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	6117	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	7146	DC	P-O3'-C3'	-5.25	112.32	120.20
36	CD	11	DC	P-O3'-C3'	-5.25	112.32	120.20
48	E1	24	DC	P-O3'-C3'	-5.25	112.32	120.20
106	J5	31	DC	P-O3'-C3'	-5.25	112.32	120.20
112	JC	5	DC	P-O3'-C3'	-5.25	112.32	120.20
126	L2	26	DC	P-O3'-C3'	-5.25	112.32	120.20
162	O9	7	DC	P-O3'-C3'	-5.25	112.32	120.20
167	P3	32	DC	P-O3'-C3'	-5.25	112.32	120.20
11	AB	1838	DT	P-O3'-C3'	-5.25	112.33	120.20
11	AB	2427	DT	P-O3'-C3'	-5.25	112.33	120.20
11	AB	2676	DT	P-O3'-C3'	-5.25	112.32	120.20
11	AB	3056	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	3269	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	3582	DT	P-O3'-C3'	-5.25	112.33	120.20
11	AB	4116	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	4258	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	6074	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	6649	DT	P-O3'-C3'	-5.25	112.33	120.20
65	F8	9	DC	P-O3'-C3'	-5.25	112.33	120.20
104	J2	29	DC	P-O3'-C3'	-5.25	112.32	120.20
120	K8	14	DC	P-O3'-C3'	-5.25	112.32	120.20
134	LC	21	DC	P-O3'-C3'	-5.25	112.33	120.20
163	OA	15	DT	P-O3'-C3'	-5.25	112.33	120.20
238	X9	35	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	1123	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	1846	DT	P-O3'-C3'	-5.25	112.33	120.20
11	AB	1892	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	2280	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	2328	DC	P-O3'-C3'	-5.25	112.33	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2924	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	4052	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	7165	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	7172	DC	P-O3'-C3'	-5.25	112.33	120.20
52	E6	17	DC	P-O3'-C3'	-5.25	112.33	120.20
58	ED	11	DC	P-O3'-C3'	-5.25	112.33	120.20
59	F1	7	DC	P-O3'-C3'	-5.25	112.33	120.20
84	H5	34	DC	P-O3'-C3'	-5.25	112.33	120.20
85	H6	23	DC	P-O3'-C3'	-5.25	112.33	120.20
117	K5	47	DC	P-O3'-C3'	-5.25	112.33	120.20
118	K6	15	DC	P-O3'-C3'	-5.25	112.33	120.20
128	L5	20	DC	P-O3'-C3'	-5.25	112.33	120.20
166	P2	30	DC	P-O3'-C3'	-5.25	112.33	120.20
180	Q8	11	DC	P-O3'-C3'	-5.25	112.33	120.20
223	V5	35	DT	P-O3'-C3'	-5.25	112.33	120.20
11	AB	2579	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	3712	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	3763	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	4167	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	4231	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	4817	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	5931	DT	P-O3'-C3'	-5.25	112.33	120.20
11	AB	6134	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	6216	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	6379	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	6415	DT	P-O3'-C3'	-5.25	112.33	120.20
11	AB	6631	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	7100	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	7236	DC	P-O3'-C3'	-5.25	112.33	120.20
27	C2	11	DC	P-O3'-C3'	-5.25	112.33	120.20
32	C8	26	DC	P-O3'-C3'	-5.25	112.33	120.20
52	E6	23	DC	P-O3'-C3'	-5.25	112.33	120.20
55	E9	33	DT	P-O3'-C3'	-5.25	112.33	120.20
74	G6	12	DC	P-O3'-C3'	-5.25	112.33	120.20
77	G9	11	DC	P-O3'-C3'	-5.25	112.33	120.20
86	H7	22	DC	P-O3'-C3'	-5.25	112.33	120.20
105	J3	30	DC	P-O3'-C3'	-5.25	112.33	120.20
122	KA	50	DT	P-O3'-C3'	-5.25	112.33	120.20
138	M5	36	DC	P-O3'-C3'	-5.25	112.33	120.20
142	M9	14	DT	P-O3'-C3'	-5.25	112.33	120.20
147	N3	23	DC	P-O3'-C3'	-5.25	112.33	120.20
172	P9	25	DC	P-O3'-C3'	-5.25	112.33	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
187	R5	5	DC	P-O3'-C3'	-5.25	112.33	120.20
189	R8	37	DC	P-O3'-C3'	-5.25	112.33	120.20
197	S7	4	DC	P-O3'-C3'	-5.25	112.33	120.20
217	U9	8	DC	P-O3'-C3'	-5.25	112.33	120.20
230	W3	16	DC	P-O3'-C3'	-5.25	112.33	120.20
238	X9	1	DC	P-O3'-C3'	-5.25	112.33	120.20
2	A2	12	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	4162	DC	P-O3'-C3'	-5.25	112.33	120.20
59	F1	10	DC	P-O3'-C3'	-5.25	112.33	120.20
141	M8	18	DC	P-O3'-C3'	-5.25	112.33	120.20
145	MD	41	DC	P-O3'-C3'	-5.25	112.33	120.20
147	N3	17	DC	P-O3'-C3'	-5.25	112.33	120.20
158	O5	19	DC	P-O3'-C3'	-5.25	112.33	120.20
11	AB	174	DC	P-O3'-C3'	-5.24	112.33	120.20
11	AB	1950	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	2381	DT	P-O3'-C3'	-5.24	112.33	120.20
11	AB	2589	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	3343	DC	P-O3'-C3'	-5.24	112.33	120.20
11	AB	3607	DC	P-O3'-C3'	-5.24	112.33	120.20
11	AB	4128	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	4429	DC	P-O3'-C3'	-5.24	112.33	120.20
11	AB	4477	DC	P-O3'-C3'	-5.24	112.33	120.20
11	AB	4818	DC	P-O3'-C3'	-5.24	112.33	120.20
11	AB	4898	DC	P-O3'-C3'	-5.24	112.33	120.20
11	AB	4908	DC	P-O3'-C3'	-5.24	112.33	120.20
11	AB	5135	DC	P-O3'-C3'	-5.24	112.33	120.20
11	AB	5531	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	6475	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	6899	DC	P-O3'-C3'	-5.24	112.34	120.20
22	B9	5	DC	P-O3'-C3'	-5.24	112.33	120.20
29	C5	37	DT	P-O3'-C3'	-5.24	112.33	120.20
35	CC	10	DC	P-O3'-C3'	-5.24	112.33	120.20
38	D2	12	DC	P-O3'-C3'	-5.24	112.33	120.20
38	D2	15	DC	P-O3'-C3'	-5.24	112.34	120.20
44	D9	28	DC	P-O3'-C3'	-5.24	112.34	120.20
64	F7	8	DT	P-O3'-C3'	-5.24	112.33	120.20
84	H5	22	DC	P-O3'-C3'	-5.24	112.33	120.20
84	H5	23	DC	P-O3'-C3'	-5.24	112.33	120.20
84	H5	35	DC	P-O3'-C3'	-5.24	112.33	120.20
126	L2	42	DC	P-O3'-C3'	-5.24	112.34	120.20
163	OA	10	DC	P-O3'-C3'	-5.24	112.34	120.20
189	R8	15	DC	P-O3'-C3'	-5.24	112.33	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
238	X9	43	DC	P-O3'-C3'	-5.24	112.33	120.20
11	AB	468	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	1334	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	3585	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	4259	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	5078	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	5741	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	6613	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	7138	DC	P-O3'-C3'	-5.24	112.34	120.20
15	B2	21	DC	P-O3'-C3'	-5.24	112.34	120.20
52	E6	20	DC	P-O3'-C3'	-5.24	112.34	120.20
57	EC	15	DC	P-O3'-C3'	-5.24	112.34	120.20
83	H3	15	DC	P-O3'-C3'	-5.24	112.34	120.20
84	H5	21	DC	P-O3'-C3'	-5.24	112.34	120.20
154	NC	27	DC	P-O3'-C3'	-5.24	112.34	120.20
192	RC	35	DC	P-O3'-C3'	-5.24	112.34	120.20
204	T3	8	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	626	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	4304	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	4324	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	4968	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	4981	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	5051	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	5408	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	6684	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	7228	DC	P-O3'-C3'	-5.24	112.34	120.20
22	B9	42	DC	P-O3'-C3'	-5.24	112.34	120.20
43	D8	17	DC	P-O3'-C3'	-5.24	112.34	120.20
46	DC	17	DC	P-O3'-C3'	-5.24	112.34	120.20
56	EA	18	DC	P-O3'-C3'	-5.24	112.34	120.20
62	F5	16	DC	P-O3'-C3'	-5.24	112.34	120.20
73	G5	1	DC	P-O3'-C3'	-5.24	112.34	120.20
82	H2	18	DC	P-O3'-C3'	-5.24	112.34	120.20
96	I6	17	DC	P-O3'-C3'	-5.24	112.34	120.20
100	IA	8	DC	P-O3'-C3'	-5.24	112.34	120.20
108	J7	50	DC	P-O3'-C3'	-5.24	112.34	120.20
160	O7	30	DC	P-O3'-C3'	-5.24	112.34	120.20
167	P3	21	DC	P-O3'-C3'	-5.24	112.34	120.20
2	A2	4	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	186	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	830	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	843	DC	P-O3'-C3'	-5.24	112.34	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1139	DT	P-O3'-C3'	-5.24	112.34	120.20
11	AB	1422	DT	P-O3'-C3'	-5.24	112.34	120.20
11	AB	1465	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	3145	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	3958	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	4143	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	4463	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	5101	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	5102	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	5154	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	5160	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	5177	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	5379	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	5525	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	5620	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	6980	DC	P-O3'-C3'	-5.24	112.34	120.20
41	D6	44	DC	P-O3'-C3'	-5.24	112.34	120.20
47	DD	44	DC	P-O3'-C3'	-5.24	112.34	120.20
122	KA	41	DC	P-O3'-C3'	-5.24	112.34	120.20
143	MA	46	DC	P-O3'-C3'	-5.24	112.34	120.20
145	MD	40	DC	P-O3'-C3'	-5.24	112.34	120.20
156	O2	48	DC	P-O3'-C3'	-5.24	112.34	120.20
204	T3	25	DC	P-O3'-C3'	-5.24	112.34	120.20
216	U8	1	DT	P-O3'-C3'	-5.24	112.34	120.20
228	VC	19	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	1923	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	2578	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	4134	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	4540	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	4642	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	4707	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	5605	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	6252	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	6822	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	7105	DT	P-O3'-C3'	-5.24	112.34	120.20
104	J2	7	DC	P-O3'-C3'	-5.24	112.34	120.20
126	L2	28	DC	P-O3'-C3'	-5.24	112.34	120.20
126	L2	39	DC	P-O3'-C3'	-5.24	112.34	120.20
127	L3	1	DC	P-O3'-C3'	-5.24	112.34	120.20
149	N6	46	DC	P-O3'-C3'	-5.24	112.34	120.20
165	OD	27	DC	P-O3'-C3'	-5.24	112.34	120.20
223	V5	25	DC	P-O3'-C3'	-5.24	112.34	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	78	DC	P-O3'-C3'	-5.24	112.35	120.20
11	AB	236	DC	P-O3'-C3'	-5.24	112.35	120.20
11	AB	570	DC	P-O3'-C3'	-5.24	112.35	120.20
11	AB	3332	DT	P-O3'-C3'	-5.24	112.34	120.20
11	AB	3749	DC	P-O3'-C3'	-5.24	112.35	120.20
11	AB	3812	DC	P-O3'-C3'	-5.24	112.35	120.20
11	AB	3918	DC	P-O3'-C3'	-5.24	112.35	120.20
11	AB	3990	DC	P-O3'-C3'	-5.24	112.35	120.20
11	AB	4194	DC	P-O3'-C3'	-5.24	112.35	120.20
11	AB	4252	DC	P-O3'-C3'	-5.24	112.35	120.20
11	AB	4323	DC	P-O3'-C3'	-5.24	112.35	120.20
11	AB	4705	DC	P-O3'-C3'	-5.24	112.34	120.20
11	AB	4935	DC	P-O3'-C3'	-5.24	112.35	120.20
11	AB	5025	DC	P-O3'-C3'	-5.24	112.35	120.20
11	AB	5446	DC	P-O3'-C3'	-5.24	112.35	120.20
11	AB	6112	DC	P-O3'-C3'	-5.24	112.35	120.20
11	AB	6246	DT	P-O3'-C3'	-5.24	112.35	120.20
11	AB	6378	DC	P-O3'-C3'	-5.24	112.35	120.20
47	DD	19	DC	P-O3'-C3'	-5.24	112.35	120.20
48	E1	16	DC	P-O3'-C3'	-5.24	112.35	120.20
164	OC	12	DC	P-O3'-C3'	-5.24	112.35	120.20
180	Q8	21	DC	P-O3'-C3'	-5.24	112.35	120.20
212	U2	25	DC	P-O3'-C3'	-5.24	112.35	120.20
11	AB	3987	DC	P-O3'-C3'	-5.23	112.35	120.20
11	AB	5039	DC	P-O3'-C3'	-5.23	112.35	120.20
11	AB	5568	DT	P-O3'-C3'	-5.23	112.35	120.20
11	AB	7051	DC	P-O3'-C3'	-5.23	112.35	120.20
22	B9	32	DC	P-O3'-C3'	-5.23	112.35	120.20
70	G1	14	DC	P-O3'-C3'	-5.23	112.35	120.20
108	J7	15	DC	P-O3'-C3'	-5.23	112.35	120.20
171	P8	11	DC	P-O3'-C3'	-5.23	112.35	120.20
205	T5	16	DC	P-O3'-C3'	-5.23	112.35	120.20
219	UC	5	DC	P-O3'-C3'	-5.23	112.35	120.20
8	A8	21	DC	P-O3'-C3'	-5.23	112.35	120.20
11	AB	727	DC	P-O3'-C3'	-5.23	112.35	120.20
11	AB	1127	DC	P-O3'-C3'	-5.23	112.35	120.20
11	AB	3051	DC	P-O3'-C3'	-5.23	112.35	120.20
11	AB	3076	DC	P-O3'-C3'	-5.23	112.35	120.20
11	AB	4065	DC	P-O3'-C3'	-5.23	112.35	120.20
11	AB	4609	DC	P-O3'-C3'	-5.23	112.35	120.20
11	AB	6377	DC	P-O3'-C3'	-5.23	112.35	120.20
11	AB	6826	DC	P-O3'-C3'	-5.23	112.35	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	E1	17	DC	P-O3'-C3'	-5.23	112.35	120.20
61	F3	25	DC	P-O3'-C3'	-5.23	112.35	120.20
73	G5	12	DC	P-O3'-C3'	-5.23	112.35	120.20
146	N2	23	DC	P-O3'-C3'	-5.23	112.35	120.20
147	N3	29	DC	P-O3'-C3'	-5.23	112.35	120.20
159	O6	8	DC	P-O3'-C3'	-5.23	112.35	120.20
160	O7	29	DC	P-O3'-C3'	-5.23	112.35	120.20
181	Q9	38	DC	P-O3'-C3'	-5.23	112.35	120.20
188	R7	30	DC	P-O3'-C3'	-5.23	112.35	120.20
191	RA	10	DC	P-O3'-C3'	-5.23	112.35	120.20
224	V7	5	DC	P-O3'-C3'	-5.23	112.35	120.20
228	VC	31	DC	P-O3'-C3'	-5.23	112.35	120.20
2	A2	13	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	515	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	4193	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	4643	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	5867	DC	P-O3'-C3'	-5.23	112.35	120.20
11	AB	5984	DC	P-O3'-C3'	-5.23	112.35	120.20
11	AB	6335	DC	P-O3'-C3'	-5.23	112.35	120.20
11	AB	7073	DC	P-O3'-C3'	-5.23	112.35	120.20
11	AB	7117	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	7155	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	7218	DC	P-O3'-C3'	-5.23	112.35	120.20
85	H6	10	DC	P-O3'-C3'	-5.23	112.36	120.20
156	O2	30	DC	P-O3'-C3'	-5.23	112.36	120.20
156	O2	52	DC	P-O3'-C3'	-5.23	112.36	120.20
173	PA	10	DC	P-O3'-C3'	-5.23	112.35	120.20
185	R2	12	DC	P-O3'-C3'	-5.23	112.36	120.20
196	S5	16	DC	P-O3'-C3'	-5.23	112.35	120.20
11	AB	556	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	1174	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	3663	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	5187	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	6786	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	7206	DC	P-O3'-C3'	-5.23	112.36	120.20
73	G5	2	DC	P-O3'-C3'	-5.23	112.36	120.20
89	HA	32	DC	P-O3'-C3'	-5.23	112.36	120.20
118	K6	10	DC	P-O3'-C3'	-5.23	112.36	120.20
161	O8	54	DC	P-O3'-C3'	-5.23	112.36	120.20
187	R5	6	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	117	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	534	DC	P-O3'-C3'	-5.23	112.36	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1293	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	1623	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	1895	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	3492	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	4002	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	4791	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	4986	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	5033	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	7227	DC	P-O3'-C3'	-5.23	112.36	120.20
26	C1	1	DC	P-O3'-C3'	-5.23	112.36	120.20
49	E2	38	DC	P-O3'-C3'	-5.23	112.36	120.20
94	I3	48	DC	P-O3'-C3'	-5.23	112.36	120.20
117	K5	20	DC	P-O3'-C3'	-5.23	112.36	120.20
117	K5	22	DC	P-O3'-C3'	-5.23	112.36	120.20
137	M3	29	DC	P-O3'-C3'	-5.23	112.36	120.20
139	M6	22	DC	P-O3'-C3'	-5.23	112.36	120.20
139	M6	23	DC	P-O3'-C3'	-5.23	112.36	120.20
143	MA	21	DC	P-O3'-C3'	-5.23	112.36	120.20
175	PD	18	DC	P-O3'-C3'	-5.23	112.36	120.20
184	QD	20	DC	P-O3'-C3'	-5.23	112.36	120.20
191	RA	11	DC	P-O3'-C3'	-5.23	112.36	120.20
197	S7	7	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	3305	DT	P-O3'-C3'	-5.23	112.36	120.20
11	AB	6834	DC	P-O3'-C3'	-5.23	112.36	120.20
20	B7	17	DC	P-O3'-C3'	-5.23	112.36	120.20
58	ED	22	DC	P-O3'-C3'	-5.23	112.36	120.20
145	MD	39	DC	P-O3'-C3'	-5.23	112.36	120.20
145	MD	49	DC	P-O3'-C3'	-5.23	112.36	120.20
164	OC	15	DC	P-O3'-C3'	-5.23	112.36	120.20
196	S5	20	DC	P-O3'-C3'	-5.23	112.36	120.20
200	SA	13	DC	P-O3'-C3'	-5.23	112.36	120.20
11	AB	840	DC	P-O3'-C3'	-5.22	112.36	120.20
11	AB	1448	DC	P-O3'-C3'	-5.22	112.36	120.20
11	AB	3975	DC	P-O3'-C3'	-5.22	112.36	120.20
11	AB	4195	DC	P-O3'-C3'	-5.22	112.36	120.20
11	AB	4729	DC	P-O3'-C3'	-5.22	112.36	120.20
11	AB	4944	DC	P-O3'-C3'	-5.22	112.36	120.20
11	AB	4982	DC	P-O3'-C3'	-5.22	112.36	120.20
11	AB	5174	DC	P-O3'-C3'	-5.22	112.36	120.20
11	AB	5198	DC	P-O3'-C3'	-5.22	112.36	120.20
11	AB	5490	DC	P-O3'-C3'	-5.22	112.36	120.20
11	AB	5604	DC	P-O3'-C3'	-5.22	112.36	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5869	DC	P-O3'-C3'	-5.22	112.36	120.20
11	AB	6915	DC	P-O3'-C3'	-5.22	112.36	120.20
18	B5	5	DC	P-O3'-C3'	-5.22	112.36	120.20
43	D8	23	DC	P-O3'-C3'	-5.22	112.36	120.20
88	H9	28	DC	P-O3'-C3'	-5.22	112.36	120.20
90	HC	13	DC	P-O3'-C3'	-5.22	112.36	120.20
191	RA	13	DC	P-O3'-C3'	-5.22	112.36	120.20
232	W7	17	DC	P-O3'-C3'	-5.22	112.36	120.20
236	X5	17	DC	P-O3'-C3'	-5.22	112.36	120.20
237	X7	12	DC	P-O3'-C3'	-5.22	112.36	120.20
1	A1	20	DC	P-O3'-C3'	-5.22	112.36	120.20
11	AB	949	DC	P-O3'-C3'	-5.22	112.36	120.20
11	AB	1018	DC	P-O3'-C3'	-5.22	112.37	120.20
11	AB	3351	DC	P-O3'-C3'	-5.22	112.36	120.20
11	AB	5702	DC	P-O3'-C3'	-5.22	112.37	120.20
11	AB	6606	DC	P-O3'-C3'	-5.22	112.37	120.20
11	AB	6735	DC	P-O3'-C3'	-5.22	112.36	120.20
11	AB	6908	DC	P-O3'-C3'	-5.22	112.37	120.20
45	DA	18	DC	P-O3'-C3'	-5.22	112.37	120.20
71	G2	5	DC	P-O3'-C3'	-5.22	112.37	120.20
94	I3	27	DC	P-O3'-C3'	-5.22	112.37	120.20
122	KA	40	DC	P-O3'-C3'	-5.22	112.36	120.20
151	N8	5	DC	P-O3'-C3'	-5.22	112.37	120.20
160	O7	20	DC	P-O3'-C3'	-5.22	112.36	120.20
161	O8	26	DC	P-O3'-C3'	-5.22	112.37	120.20
164	OC	23	DC	P-O3'-C3'	-5.22	112.37	120.20
187	R5	41	DC	P-O3'-C3'	-5.22	112.37	120.20
204	T3	6	DC	P-O3'-C3'	-5.22	112.37	120.20
214	U5	9	DC	P-O3'-C3'	-5.22	112.37	120.20
11	AB	1209	DC	P-O3'-C3'	-5.22	112.37	120.20
11	AB	1622	DC	P-O3'-C3'	-5.22	112.37	120.20
11	AB	2466	DC	P-O3'-C3'	-5.22	112.37	120.20
11	AB	2878	DC	P-O3'-C3'	-5.22	112.37	120.20
11	AB	4368	DC	P-O3'-C3'	-5.22	112.37	120.20
11	AB	4909	DC	P-O3'-C3'	-5.22	112.37	120.20
11	AB	5498	DC	P-O3'-C3'	-5.22	112.37	120.20
18	B5	4	DC	P-O3'-C3'	-5.22	112.37	120.20
119	K7	17	DC	P-O3'-C3'	-5.22	112.37	120.20
157	O3	6	DC	P-O3'-C3'	-5.22	112.37	120.20
11	AB	1248	DC	P-O3'-C3'	-5.22	112.37	120.20
11	AB	2436	DC	P-O3'-C3'	-5.22	112.37	120.20
11	AB	2583	DC	P-O3'-C3'	-5.22	112.37	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4064	DC	P-O3'-C3'	-5.22	112.37	120.20
11	AB	7164	DC	P-O3'-C3'	-5.22	112.37	120.20
37	D1	8	DC	P-O3'-C3'	-5.22	112.37	120.20
43	D8	20	DC	P-O3'-C3'	-5.22	112.37	120.20
48	E1	8	DC	P-O3'-C3'	-5.22	112.37	120.20
60	F2	1	DC	P-O3'-C3'	-5.22	112.37	120.20
98	I8	12	DC	P-O3'-C3'	-5.22	112.37	120.20
101	IC	22	DC	P-O3'-C3'	-5.22	112.37	120.20
106	J5	23	DC	P-O3'-C3'	-5.22	112.37	120.20
140	M7	8	DC	P-O3'-C3'	-5.22	112.37	120.20
150	N7	9	DC	P-O3'-C3'	-5.22	112.37	120.20
154	NC	1	DC	P-O3'-C3'	-5.22	112.37	120.20
169	P6	19	DC	P-O3'-C3'	-5.22	112.37	120.20
197	S7	11	DC	P-O3'-C3'	-5.22	112.37	120.20
11	AB	2983	DC	P-O3'-C3'	-5.22	112.37	120.20
11	AB	6485	DC	P-O3'-C3'	-5.22	112.37	120.20
111	JA	17	DC	P-O3'-C3'	-5.22	112.37	120.20
173	PA	28	DC	P-O3'-C3'	-5.22	112.37	120.20
184	QD	4	DC	P-O3'-C3'	-5.22	112.37	120.20
228	VC	30	DC	P-O3'-C3'	-5.22	112.37	120.20
4	A4	13	DC	P-O3'-C3'	-5.22	112.38	120.20
11	AB	202	DC	P-O3'-C3'	-5.22	112.38	120.20
11	AB	967	DC	P-O3'-C3'	-5.22	112.38	120.20
11	AB	1269	DC	P-O3'-C3'	-5.22	112.38	120.20
11	AB	1366	DC	P-O3'-C3'	-5.22	112.38	120.20
11	AB	2413	DC	P-O3'-C3'	-5.22	112.38	120.20
11	AB	4706	DC	P-O3'-C3'	-5.22	112.38	120.20
11	AB	4934	DC	P-O3'-C3'	-5.22	112.38	120.20
11	AB	5794	DC	P-O3'-C3'	-5.22	112.37	120.20
11	AB	7099	DC	P-O3'-C3'	-5.22	112.38	120.20
20	B7	18	DC	P-O3'-C3'	-5.22	112.38	120.20
28	C3	6	DC	P-O3'-C3'	-5.22	112.37	120.20
97	I7	21	DC	P-O3'-C3'	-5.22	112.38	120.20
107	J6	2	DC	P-O3'-C3'	-5.22	112.38	120.20
177	Q3	8	DC	P-O3'-C3'	-5.22	112.37	120.20
190	R9	29	DC	P-O3'-C3'	-5.22	112.38	120.20
11	AB	591	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	2617	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	3378	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	4135	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	4298	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	5254	DC	P-O3'-C3'	-5.21	112.38	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6571	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	6859	DC	P-O3'-C3'	-5.21	112.38	120.20
17	B4	12	DC	P-O3'-C3'	-5.21	112.38	120.20
49	E2	1	DC	P-O3'-C3'	-5.21	112.38	120.20
105	J3	15	DC	P-O3'-C3'	-5.21	112.38	120.20
116	K3	20	DC	P-O3'-C3'	-5.21	112.38	120.20
143	MA	12	DC	P-O3'-C3'	-5.21	112.38	120.20
162	O9	16	DC	P-O3'-C3'	-5.21	112.38	120.20
187	R5	33	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	99	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	5002	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	6354	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	6407	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	6526	DC	P-O3'-C3'	-5.21	112.38	120.20
82	H2	39	DC	P-O3'-C3'	-5.21	112.38	120.20
84	H5	24	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	516	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	1239	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	1243	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	1244	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	1369	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	3370	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	3654	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	7205	DC	P-O3'-C3'	-5.21	112.38	120.20
22	B9	15	DC	P-O3'-C3'	-5.21	112.38	120.20
24	BC	40	DC	P-O3'-C3'	-5.21	112.38	120.20
47	DD	10	DC	P-O3'-C3'	-5.21	112.38	120.20
113	JD	24	DC	P-O3'-C3'	-5.21	112.38	120.20
168	P5	1	DC	P-O3'-C3'	-5.21	112.38	120.20
178	Q5	3	DC	P-O3'-C3'	-5.21	112.38	120.20
11	AB	1247	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	3497	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	4142	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	4219	DC	P-O3'-C3'	-5.21	112.39	120.20
125	L1	40	DC	P-O3'-C3'	-5.21	112.39	120.20
143	MA	31	DC	P-O3'-C3'	-5.21	112.38	120.20
192	RC	34	DC	P-O3'-C3'	-5.21	112.39	120.20
209	TA	21	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	2053	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	3803	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	4487	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	4511	DC	P-O3'-C3'	-5.21	112.39	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5526	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	5591	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	5701	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	6193	DC	P-O3'-C3'	-5.21	112.39	120.20
32	C8	29	DC	P-O3'-C3'	-5.21	112.39	120.20
83	H3	1	DC	P-O3'-C3'	-5.21	112.39	120.20
104	J2	10	DC	P-O3'-C3'	-5.21	112.39	120.20
151	N8	6	DC	P-O3'-C3'	-5.21	112.39	120.20
205	T5	17	DC	P-O3'-C3'	-5.21	112.39	120.20
5	A5	30	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	127	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	1226	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	1268	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	1474	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	4176	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	4591	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	5901	DC	P-O3'-C3'	-5.21	112.39	120.20
60	F2	13	DC	P-O3'-C3'	-5.21	112.39	120.20
90	HC	12	DC	P-O3'-C3'	-5.21	112.39	120.20
178	Q5	6	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	3698	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	4001	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	6554	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	6695	DC	P-O3'-C3'	-5.21	112.39	120.20
11	AB	7245	DC	P-O3'-C3'	-5.21	112.39	120.20
134	LC	7	DC	P-O3'-C3'	-5.21	112.39	120.20
166	P2	31	DC	P-O3'-C3'	-5.21	112.39	120.20
4	A4	12	DC	P-O3'-C3'	-5.20	112.40	120.20
11	AB	4220	DC	P-O3'-C3'	-5.20	112.39	120.20
11	AB	4340	DC	P-O3'-C3'	-5.20	112.39	120.20
11	AB	4969	DC	P-O3'-C3'	-5.20	112.39	120.20
11	AB	4987	DC	P-O3'-C3'	-5.20	112.39	120.20
11	AB	5282	DC	P-O3'-C3'	-5.20	112.39	120.20
11	AB	6058	DC	P-O3'-C3'	-5.20	112.39	120.20
39	D3	8	DC	P-O3'-C3'	-5.20	112.40	120.20
55	E9	19	DC	P-O3'-C3'	-5.20	112.39	120.20
145	MD	50	DC	P-O3'-C3'	-5.20	112.39	120.20
87	H8	11	DC	P-O3'-C3'	-5.20	112.40	120.20
11	AB	818	DC	P-O3'-C3'	-5.20	112.40	120.20
11	AB	4596	DC	P-O3'-C3'	-5.20	112.40	120.20
11	AB	6887	DC	P-O3'-C3'	-5.20	112.40	120.20
107	J6	1	DC	P-O3'-C3'	-5.20	112.40	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
216	U8	20	DC	P-O3'-C3'	-5.20	112.40	120.20
11	AB	378	DC	P-O3'-C3'	-5.20	112.40	120.20
11	AB	2351	DT	P-O3'-C3'	-5.20	112.40	120.20
11	AB	5103	DC	P-O3'-C3'	-5.20	112.40	120.20
69	FD	16	DC	P-O3'-C3'	-5.20	112.40	120.20
90	HC	9	DC	P-O3'-C3'	-5.20	112.40	120.20
11	AB	235	DC	P-O3'-C3'	-5.20	112.40	120.20
11	AB	5145	DC	P-O3'-C3'	-5.20	112.41	120.20
62	F5	19	DC	P-O3'-C3'	-5.20	112.41	120.20
23	BA	8	DC	P-O3'-C3'	-5.20	112.41	120.20
37	D1	21	DC	P-O3'-C3'	-5.20	112.41	120.20
59	F1	9	DC	P-O3'-C3'	-5.20	112.41	120.20
187	R5	11	DC	P-O3'-C3'	-5.20	112.41	120.20
11	AB	1175	DC	P-O3'-C3'	-5.19	112.41	120.20
11	AB	3140	DC	P-O3'-C3'	-5.19	112.41	120.20
56	EA	21	DC	P-O3'-C3'	-5.19	112.41	120.20
175	PD	10	DC	P-O3'-C3'	-5.19	112.41	120.20
11	AB	4826	DC	P-O3'-C3'	-5.19	112.41	120.20
37	D1	18	DC	P-O3'-C3'	-5.19	112.41	120.20
137	M3	24	DC	P-O3'-C3'	-5.19	112.41	120.20
205	T5	3	DC	P-O3'-C3'	-5.19	112.41	120.20
1	A1	10	DC	P-O3'-C3'	-5.19	112.42	120.20
10	AA	18	DC	P-O3'-C3'	-5.19	112.42	120.20
11	AB	1027	DC	P-O3'-C3'	-5.19	112.42	120.20
11	AB	1896	DC	P-O3'-C3'	-5.19	112.42	120.20
230	W3	6	DC	P-O3'-C3'	-5.19	112.42	120.20
11	AB	1993	DC	P-O3'-C3'	-5.19	112.42	120.20
11	AB	4444	DC	P-O3'-C3'	-5.19	112.42	120.20
11	AB	1430	DC	P-O3'-C3'	-5.18	112.42	120.20
11	AB	4937	DC	P-O3'-C3'	-5.18	112.42	120.20
52	E6	22	DC	P-O3'-C3'	-5.18	112.42	120.20
11	AB	773	DC	P-O3'-C3'	-5.18	112.42	120.20
11	AB	4897	DC	P-O3'-C3'	-5.18	112.44	120.20
11	AB	5664	DT	P-O3'-C3'	-5.18	112.44	120.20
11	AB	3106	DC	P-O3'-C3'	-5.17	112.44	120.20
11	AB	485	DT	P-O3'-C3'	-5.16	112.46	120.20
11	AB	4576	DC	P-O3'-C3'	-5.14	112.50	120.20
11	AB	3224	DT	P-O3'-C3'	-5.13	112.51	120.20
11	AB	5852	DC	P-O3'-C3'	-5.12	112.52	120.20
11	AB	685	DC	P-O3'-C3'	-5.12	112.52	120.20
11	AB	3319	DC	P-O3'-C3'	-5.06	112.61	120.20

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A1	1166	637	637	37	0
2	A2	636	350	350	38	0
3	A3	473	259	259	21	0
4	A4	574	317	318	29	0
5	A5	861	478	478	47	0
6	A6	535	291	291	21	0
7	A7	756	421	421	46	0
8	A8	496	273	274	29	0
9	A9	395	218	219	25	0
10	AA	476	255	255	20	0
11	AB	148265	82147	82243	8164	0
12	AC	370	204	204	28	0
13	AD	826	452	452	49	0
14	B1	873	469	469	37	0
15	B2	370	200	201	14	0
16	B3	376	205	206	18	0
17	B4	372	203	204	17	0
18	B5	779	427	427	46	0
19	B6	494	272	272	24	0
20	B7	363	204	205	20	0
21	B8	551	309	309	39	0
22	B9	1116	606	607	51	0
23	BA	658	362	363	34	0
24	BC	768	411	411	31	0
25	BD	395	212	212	11	0
26	C1	546	306	307	32	0
27	C2	369	201	202	18	0
28	C3	442	233	234	15	0
29	C5	874	470	470	25	0
30	C6	930	503	503	43	0
31	C7	678	377	377	47	0
32	C8	1114	605	606	55	0
33	C9	559	304	304	25	0
34	CA	392	215	216	17	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
35	CC	634	348	349	28	0
36	CD	533	293	294	29	0
37	D1	845	469	469	41	0
38	D2	369	198	198	12	0
39	D3	701	383	384	39	0
40	D5	435	237	238	22	0
41	D6	944	517	517	49	0
42	D7	437	235	235	15	0
43	D8	939	517	517	51	0
44	D9	620	334	335	19	0
45	DA	474	256	256	16	0
46	DC	369	202	203	19	0
47	DD	861	467	468	27	0
48	E1	673	368	369	22	0
49	E2	881	486	486	51	0
50	E3	392	213	213	21	0
51	E5	618	340	341	34	0
52	E6	747	411	412	28	0
53	E7	496	273	273	31	0
54	E8	666	378	378	59	0
55	E9	844	463	463	49	0
56	EA	390	216	216	21	0
57	EC	475	260	261	22	0
58	ED	779	427	428	34	0
59	F1	404	223	223	17	0
60	F2	715	393	393	39	0
61	F3	535	288	289	19	0
62	F5	972	547	547	56	0
63	F6	374	199	200	14	0
64	F7	597	328	328	28	0
65	F8	366	201	201	19	0
66	F9	374	201	202	12	0
67	FA	686	373	374	43	0
68	FC	395	214	215	18	0
69	FD	972	523	524	35	0
70	G1	389	213	213	18	0
71	G2	368	200	201	10	0
72	G3	571	317	317	30	0
73	G5	492	268	268	19	0
74	G6	678	375	375	45	0
75	G7	591	323	323	17	0
76	G8	487	256	257	16	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
77	G9	389	216	216	26	0
78	GA	395	213	214	13	0
79	GC	535	291	292	19	0
80	GD	375	201	202	13	0
81	H1	374	204	205	16	0
82	H2	1039	573	573	58	0
83	H3	864	472	472	44	0
84	H5	813	451	451	41	0
85	H6	721	389	389	27	0
86	H7	414	226	226	26	0
87	H8	433	234	235	13	0
88	H9	643	346	346	30	0
89	HA	623	338	338	29	0
90	HC	488	266	267	19	0
91	HD	494	270	271	25	0
92	I1	437	235	236	19	0
93	I2	1004	549	549	45	0
94	I3	1221	658	658	52	0
95	I5	880	471	471	41	0
96	I6	385	218	218	28	0
97	I7	618	335	335	27	0
98	I8	824	450	450	38	0
99	I9	620	335	335	25	0
100	IA	388	214	214	14	0
101	IC	470	259	259	25	0
102	ID	689	372	372	40	0
103	J1	574	314	314	28	0
104	J2	853	468	468	35	0
105	J3	608	344	344	47	0
106	J5	768	411	412	25	0
107	J6	908	492	493	29	0
108	J7	1154	631	631	55	0
109	J8	1118	605	606	61	0
110	J9	367	201	202	15	0
111	JA	392	213	214	17	0
112	JC	532	294	295	27	0
113	JD	792	424	424	26	0
114	K1	926	507	507	49	0
115	K2	675	374	374	40	0
116	K3	370	200	201	11	0
117	K5	995	553	553	60	0
118	K6	366	205	206	26	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
119	K7	884	487	487	53	0
120	K8	471	258	259	20	0
121	K9	534	294	294	26	0
122	KA	1044	575	575	64	0
123	KC	502	270	271	24	0
124	KD	473	259	259	29	0
125	L1	1159	628	628	47	0
126	L2	1145	627	628	43	0
127	L3	382	216	216	29	0
128	L5	468	259	259	26	0
129	L6	491	274	275	26	0
130	L7	1238	677	677	62	0
131	L8	497	268	269	15	0
132	L9	393	214	214	22	0
133	LA	449	251	251	36	0
134	LC	369	200	201	9	0
135	LD	367	205	206	18	0
136	M2	432	239	239	30	0
137	M3	723	390	390	20	0
138	M5	859	476	476	52	0
139	M6	506	278	278	21	0
140	M7	531	290	291	20	0
141	M8	529	295	295	28	0
142	M9	474	261	261	28	0
143	MA	894	488	488	33	0
144	MC	476	263	264	34	0
145	MD	1184	652	652	58	0
146	N2	495	268	268	20	0
147	N3	712	392	392	39	0
148	N5	642	348	349	25	0
149	N6	1038	577	577	50	0
150	N7	474	256	257	15	0
151	N8	428	235	235	22	0
152	N9	1083	588	588	58	0
153	NA	399	210	210	10	0
154	NC	781	429	429	50	0
155	ND	419	225	225	17	0
156	O2	1226	669	669	49	0
157	O3	500	269	269	18	0
158	O5	1007	549	550	34	0
159	O6	471	260	261	26	0
160	O7	1073	582	583	41	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
161	O8	1188	653	654	53	0
162	O9	366	201	202	16	0
163	OA	389	212	213	12	0
164	OC	481	268	269	19	0
165	OD	1197	649	650	54	0
166	P2	628	353	354	42	0
167	P3	770	427	427	36	0
168	P5	369	202	202	14	0
169	P6	373	200	201	17	0
170	P7	371	203	204	17	0
171	P8	479	277	278	35	0
172	P9	486	276	277	37	0
173	PA	782	426	426	33	0
174	PC	476	258	258	29	0
175	PD	473	256	256	19	0
176	Q2	391	214	214	13	0
177	Q3	470	262	262	26	0
178	Q5	859	476	476	50	0
179	Q7	472	259	259	18	0
180	Q8	488	270	271	21	0
181	Q9	792	443	443	56	0
182	QA	582	313	313	23	0
183	QC	472	260	260	29	0
184	QD	626	351	351	33	0
185	R2	501	268	268	25	0
186	R3	369	202	203	24	0
187	R5	856	468	468	48	0
188	R7	664	359	359	29	0
189	R8	815	451	452	39	0
190	R9	946	521	521	53	0
191	RA	556	303	303	28	0
192	RC	648	361	362	35	0
193	RD	367	203	204	12	0
194	S2	621	337	338	29	0
195	S3	579	314	314	33	0
196	S5	658	356	356	21	0
197	S7	481	268	268	23	0
198	S8	817	452	452	46	0
199	S9	478	255	255	16	0
200	SA	493	269	270	23	0
201	SC	393	211	212	9	0
202	SD	537	290	290	20	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
203	T2	492	271	272	21	0
204	T3	919	506	506	55	0
205	T5	484	266	266	16	0
206	T7	1170	623	623	47	0
207	T8	497	270	271	18	0
208	T9	362	206	207	23	0
209	TA	868	468	468	42	0
210	TC	532	290	290	15	0
211	TD	861	478	478	52	0
212	U2	489	271	272	23	0
213	U3	543	291	292	21	0
214	U5	856	477	477	56	0
215	U7	470	262	263	26	0
216	U8	496	270	270	24	0
217	U9	493	270	271	21	0
218	UA	397	216	216	24	0
219	UC	656	363	364	31	0
220	UD	465	260	260	30	0
221	V2	551	306	307	28	0
222	V3	519	283	283	31	0
223	V5	845	459	459	42	0
224	V7	368	202	202	17	0
225	V8	460	245	245	20	0
226	V9	704	380	381	26	0
227	VA	595	325	325	34	0
228	VC	824	448	449	32	0
229	VD	437	232	232	8	0
230	W3	1007	554	554	58	0
231	W5	640	353	353	45	0
232	W7	467	263	263	34	0
233	W8	437	236	237	15	0
234	W9	396	212	212	13	0
235	WD	370	202	203	14	0
236	X5	429	238	239	23	0
237	X7	465	259	260	19	0
238	X9	1210	661	661	50	0
All	All	296225	163115	163308	14635	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 32.

All (14635) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:E1:1:DT:H71	187:R5:42:DC:H2''	1.75	0.69
120:K8:1:DT:H71	146:N2:24:DC:H2''	1.75	0.69
11:AB:778:DC:H2''	11:AB:779:DT:H71	1.75	0.69
11:AB:5003:DC:C2'	11:AB:5004:DT:H71	2.23	0.69
11:AB:5079:DC:H2''	11:AB:5080:DT:H71	1.75	0.69
2:A2:14:DC:H2''	2:A2:15:DT:H71	1.75	0.69
11:AB:48:DC:H2''	11:AB:49:DT:H71	1.75	0.69
11:AB:379:DC:H2''	11:AB:380:DT:H71	1.75	0.69
11:AB:387:DC:H2''	11:AB:388:DT:H71	1.75	0.69
11:AB:932:DC:H2''	11:AB:933:DT:H71	1.75	0.69
11:AB:1466:DC:H2''	11:AB:1467:DT:H71	1.75	0.69
11:AB:1542:DC:H2''	11:AB:1543:DT:H71	1.75	0.69
11:AB:1771:DC:H2''	11:AB:1772:DT:H71	1.75	0.69
11:AB:2437:DC:H2''	11:AB:2438:DT:H71	1.75	0.69
11:AB:2609:DC:H2''	11:AB:2610:DT:H71	1.75	0.69
11:AB:3185:DC:H2''	11:AB:3186:DT:H71	1.75	0.69
11:AB:3374:DC:H2''	11:AB:3375:DT:H71	1.75	0.69
11:AB:4733:DC:H2''	11:AB:4734:DT:H71	1.75	0.69
11:AB:4862:DC:H2''	11:AB:4863:DT:H71	1.75	0.69
11:AB:5003:DC:H2''	11:AB:5004:DT:H71	1.75	0.69
11:AB:5491:DC:H2''	11:AB:5492:DT:H71	1.75	0.69
11:AB:5918:DC:H2''	11:AB:5919:DT:H71	1.75	0.69
11:AB:6637:DC:H2''	11:AB:6638:DT:H71	1.75	0.69
11:AB:7114:DC:H2''	11:AB:7115:DT:H71	1.75	0.69
11:AB:7182:DC:H2''	11:AB:7183:DT:H71	1.75	0.69
22:B9:20:DC:H2''	22:B9:21:DT:H71	1.75	0.69
104:J2:18:DC:H2''	104:J2:19:DT:H71	1.75	0.69
122:KA:6:DC:H2''	122:KA:7:DT:H71	1.75	0.69
140:M7:9:DC:H2''	140:M7:10:DT:H71	1.75	0.69
141:M8:27:DC:H2''	141:M8:28:DT:H71	1.75	0.69
172:P9:22:DC:H2''	172:P9:23:DT:H71	1.75	0.69
181:Q9:22:DC:H2''	181:Q9:23:DT:H71	1.75	0.69
213:U3:20:DC:H2''	213:U3:21:DT:H71	1.75	0.69
232:W7:20:DC:H2''	232:W7:21:DT:H71	1.75	0.69
2:A2:21:DC:H2''	2:A2:22:DT:H71	1.75	0.69
11:AB:256:DC:H2''	11:AB:257:DT:H71	1.75	0.69
11:AB:844:DC:H2''	11:AB:845:DT:H71	1.75	0.69
11:AB:877:DC:H2''	11:AB:878:DT:H71	1.75	0.69
11:AB:1096:DC:H2''	11:AB:1097:DT:H71	1.75	0.69
11:AB:1162:DC:H2''	11:AB:1163:DT:H71	1.75	0.69
11:AB:1353:DC:H2''	11:AB:1354:DT:H71	1.75	0.69
11:AB:1370:DC:H2''	11:AB:1371:DT:H71	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1387:DC:H2"	11:AB:1388:DT:H71	1.75	0.69
11:AB:1511:DC:H2"	11:AB:1512:DT:H71	1.75	0.69
11:AB:1693:DC:H2"	11:AB:1694:DT:H71	1.75	0.69
11:AB:1968:DC:H2"	11:AB:1969:DT:H71	1.75	0.69
11:AB:2025:DC:H2"	11:AB:2026:DT:H71	1.75	0.69
11:AB:2100:DC:H2"	11:AB:2101:DT:H71	1.75	0.69
11:AB:2281:DC:H2"	11:AB:2282:DT:H71	1.75	0.69
11:AB:2425:DC:H2"	11:AB:2426:DT:H71	1.75	0.69
11:AB:3493:DC:H2"	11:AB:3494:DT:H71	1.75	0.69
11:AB:3904:DC:H2"	11:AB:3905:DT:H71	1.75	0.69
11:AB:4005:DC:H2"	11:AB:4006:DT:H71	1.75	0.69
11:AB:4533:DC:H2"	11:AB:4534:DT:H71	1.75	0.69
11:AB:4592:DC:H2"	11:AB:4593:DT:H71	1.75	0.69
11:AB:4690:DC:H2"	11:AB:4691:DT:H71	1.75	0.69
11:AB:4922:DC:H2"	11:AB:4923:DT:H71	1.75	0.69
11:AB:4983:DC:H2"	11:AB:4984:DT:H71	1.75	0.69
11:AB:5461:DC:H2"	11:AB:5462:DT:H71	1.75	0.69
11:AB:5522:DC:H2"	11:AB:5523:DT:H71	1.75	0.69
11:AB:5699:DC:H2"	11:AB:5700:DT:H71	1.75	0.69
11:AB:5800:DC:H2"	11:AB:5801:DT:H71	1.75	0.69
11:AB:5939:DC:H2"	11:AB:5940:DT:H71	1.75	0.69
11:AB:5981:DC:H2"	11:AB:5982:DT:H71	1.75	0.69
11:AB:6555:DC:H2"	11:AB:6556:DT:H71	1.75	0.69
11:AB:6712:DC:H2"	11:AB:6713:DT:H71	1.75	0.69
14:B1:34:DC:H2"	14:B1:35:DT:H71	1.75	0.69
22:B9:6:DC:H2"	22:B9:7:DT:H71	1.75	0.69
23:BA:24:DC:H2"	23:BA:25:DT:H71	1.75	0.69
29:C5:23:DC:H2"	29:C5:24:DT:H71	1.75	0.69
37:D1:34:DC:H2"	37:D1:35:DT:H71	1.75	0.69
51:E5:26:DC:H2"	51:E5:27:DT:H71	1.75	0.69
62:F5:7:DC:H2"	62:F5:8:DT:H71	1.75	0.69
65:F8:1:DC:H2"	65:F8:2:DT:H71	1.75	0.69
167:P3:23:DC:H2"	167:P3:24:DT:H71	1.75	0.69
187:R5:31:DC:H2"	187:R5:32:DT:H71	1.75	0.69
197:S7:13:DC:H2"	197:S7:14:DT:H71	1.75	0.69
198:S8:6:DC:H2"	198:S8:7:DT:H71	1.75	0.69
206:T7:13:DC:H2"	206:T7:14:DT:H71	1.75	0.69
233:W8:19:DC:H2"	233:W8:20:DT:H71	1.75	0.69
8:A8:22:DC:H2"	8:A8:23:DT:H71	1.75	0.69
11:AB:79:DC:H2"	11:AB:80:DT:H71	1.75	0.69
11:AB:205:DC:H2"	11:AB:206:DT:H71	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:831:DC:H2''	11:AB:832:DT:H71	1.75	0.69
11:AB:887:DC:H2''	11:AB:888:DT:H71	1.75	0.69
11:AB:919:DC:H2''	11:AB:920:DT:H71	1.75	0.69
11:AB:1000:DC:H2''	11:AB:1001:DT:H71	1.75	0.69
11:AB:1132:DC:H2''	11:AB:1133:DT:H71	1.75	0.69
11:AB:1328:DC:H2''	11:AB:1329:DT:H71	1.75	0.69
11:AB:1574:DC:H2''	11:AB:1575:DT:H71	1.75	0.69
11:AB:1630:DC:H2''	11:AB:1631:DT:H71	1.75	0.69
11:AB:1799:DC:H2''	11:AB:1800:DT:H71	1.75	0.69
11:AB:2059:DC:H2''	11:AB:2060:DT:H71	1.75	0.69
11:AB:2107:DC:H2''	11:AB:2108:DT:H71	1.75	0.69
11:AB:2211:DC:H2''	11:AB:2212:DT:H71	1.75	0.69
11:AB:2253:DC:H2''	11:AB:2254:DT:H71	1.75	0.69
11:AB:2960:DC:H2''	11:AB:2961:DT:H71	1.75	0.69
11:AB:3011:DC:H2''	11:AB:3012:DT:H71	1.75	0.69
11:AB:3301:DC:C2'	11:AB:3302:DT:H71	2.23	0.69
11:AB:3485:DC:H2''	11:AB:3486:DT:H71	1.75	0.69
11:AB:3833:DC:H2''	11:AB:3834:DT:H71	1.75	0.69
11:AB:3988:DC:H2''	11:AB:3989:DT:H71	1.75	0.69
11:AB:4124:DC:H2''	11:AB:4125:DT:H71	1.75	0.69
11:AB:4268:DC:H2''	11:AB:4269:DT:H71	1.75	0.69
11:AB:4325:DC:H2''	11:AB:4326:DT:H71	1.75	0.69
11:AB:4569:DC:H2''	11:AB:4570:DT:H71	1.75	0.69
11:AB:4626:DC:H2''	11:AB:4627:DT:H71	1.75	0.69
11:AB:4719:DC:H2''	11:AB:4720:DT:H71	1.75	0.69
11:AB:4913:DC:H2''	11:AB:4914:DT:H71	1.75	0.69
11:AB:5020:DC:H2''	11:AB:5021:DT:H71	1.75	0.69
11:AB:5140:DC:H2''	11:AB:5141:DT:H71	1.75	0.69
11:AB:5212:DC:C2'	11:AB:5213:DT:H71	2.23	0.69
11:AB:5431:DC:H2''	11:AB:5432:DT:H71	1.75	0.69
11:AB:5511:DC:H2''	11:AB:5512:DT:H71	1.75	0.69
11:AB:5765:DC:H2''	11:AB:5766:DT:H71	1.75	0.69
11:AB:5936:DC:H2''	11:AB:5937:DT:H71	1.75	0.69
11:AB:6105:DC:H2''	11:AB:6106:DT:H71	1.75	0.69
11:AB:6196:DC:H2''	11:AB:6197:DT:H71	1.75	0.69
11:AB:6227:DC:H2''	11:AB:6228:DT:H71	1.75	0.69
11:AB:6371:DC:H2''	11:AB:6372:DT:H71	1.75	0.69
11:AB:6392:DC:H2''	11:AB:6393:DT:H71	1.75	0.69
11:AB:6736:DC:H2''	11:AB:6737:DT:H71	1.75	0.69
11:AB:6807:DC:H2''	11:AB:6808:DT:H71	1.75	0.69
35:CC:15:DC:H2''	35:CC:16:DT:H71	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:D1:1:DC:H2"	37:D1:2:DT:H71	1.75	0.69
57:EC:16:DC:H2"	57:EC:17:DT:H71	1.75	0.69
60:F2:29:DC:H2"	60:F2:30:DT:H71	1.75	0.69
62:F5:20:DC:H2"	62:F5:21:DT:H71	1.75	0.69
101:IC:23:DC:H2"	101:IC:24:DT:H71	1.75	0.69
103:J1:7:DC:H2"	175:PD:7:DT:H71	1.75	0.69
106:J5:15:DT:H71	196:S5:21:DC:H2"	1.75	0.69
114:K1:39:DC:H2"	114:K1:40:DT:H71	1.75	0.69
122:KA:42:DC:H2"	122:KA:43:DT:H71	1.75	0.69
152:N9:27:DC:H2"	152:N9:28:DT:H71	1.75	0.69
165:OD:56:DC:H2"	165:OD:57:DT:H71	1.75	0.69
183:QC:5:DC:H2"	183:QC:6:DT:H71	1.75	0.69
189:R8:8:DC:H2"	189:R8:9:DT:H71	1.75	0.69
196:S5:24:DC:H2"	196:S5:25:DT:H71	1.75	0.69
208:T9:9:DC:H2"	208:T9:10:DT:H71	1.75	0.69
213:U3:20:DC:C2'	213:U3:21:DT:H71	2.23	0.69
214:U5:18:DC:H2"	214:U5:19:DT:H71	1.75	0.69
219:UC:6:DC:H2"	219:UC:7:DT:H71	1.75	0.69
220:UD:1:DC:H2"	220:UD:2:DT:H71	1.75	0.69
11:AB:418:DC:H2"	11:AB:419:DT:H71	1.75	0.68
11:AB:519:DC:H2"	11:AB:520:DT:H71	1.75	0.68
11:AB:601:DC:H2"	11:AB:602:DT:H71	1.75	0.68
11:AB:769:DC:H2"	11:AB:770:DT:H71	1.75	0.68
11:AB:1012:DC:H2"	11:AB:1013:DT:H71	1.75	0.68
11:AB:1054:DC:H2"	11:AB:1055:DT:H71	1.75	0.68
11:AB:1166:DC:H2"	11:AB:1167:DT:H71	1.75	0.68
11:AB:1240:DC:H2"	11:AB:1241:DT:H71	1.75	0.68
11:AB:1245:DC:H2"	11:AB:1246:DT:H71	1.75	0.68
11:AB:1343:DC:H2"	11:AB:1344:DT:H71	1.75	0.68
11:AB:1556:DC:C2'	11:AB:1557:DT:H71	2.23	0.68
11:AB:1560:DC:H2"	11:AB:1561:DT:H71	1.75	0.68
11:AB:1704:DC:C2'	11:AB:1705:DT:H71	2.24	0.68
11:AB:1884:DC:H2"	11:AB:1885:DT:H71	1.75	0.68
11:AB:1960:DC:H2"	11:AB:1961:DT:H71	1.75	0.68
11:AB:2897:DC:H2"	11:AB:2898:DT:H71	1.75	0.68
11:AB:3284:DC:H2"	11:AB:3285:DT:H71	1.75	0.68
11:AB:3320:DC:H2"	11:AB:3321:DT:H71	1.75	0.68
11:AB:3464:DC:H2"	11:AB:3465:DT:H71	1.75	0.68
11:AB:3686:DC:H2"	11:AB:3687:DT:H71	1.75	0.68
11:AB:3764:DC:H2"	11:AB:3765:DT:H71	1.75	0.68
11:AB:3854:DC:H2"	11:AB:3855:DT:H71	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4136:DC:H2''	11:AB:4137:DT:H71	1.75	0.68
11:AB:4146:DC:H2''	11:AB:4147:DT:H71	1.75	0.68
11:AB:4149:DC:H2''	11:AB:4150:DT:H71	1.75	0.68
11:AB:4373:DC:H2''	11:AB:4374:DT:H71	1.75	0.68
11:AB:4401:DC:H2''	11:AB:4402:DT:H71	1.75	0.68
11:AB:4647:DC:H2''	11:AB:4648:DT:H71	1.75	0.68
11:AB:5075:DC:C2'	11:AB:5076:DT:H71	2.23	0.68
11:AB:5075:DC:H2''	11:AB:5076:DT:H71	1.75	0.68
11:AB:5079:DC:C2'	11:AB:5080:DT:H71	2.24	0.68
11:AB:5091:DC:H2''	11:AB:5092:DT:H71	1.75	0.68
11:AB:5216:DC:H2''	11:AB:5217:DT:H71	1.75	0.68
11:AB:5239:DC:H2''	11:AB:5240:DT:H71	1.76	0.68
11:AB:5302:DC:H2''	11:AB:5303:DT:H71	1.75	0.68
11:AB:5376:DC:H2''	11:AB:5377:DT:H71	1.75	0.68
11:AB:6113:DC:H2''	11:AB:6114:DT:H71	1.75	0.68
11:AB:6147:DC:H2''	11:AB:6148:DT:H71	1.75	0.68
11:AB:6551:DC:H2''	11:AB:6552:DT:H71	1.75	0.68
11:AB:6721:DC:H2''	11:AB:6722:DT:H71	1.75	0.68
11:AB:6744:DC:C2'	11:AB:6745:DT:H71	2.24	0.68
11:AB:6840:DC:H2''	11:AB:6841:DT:H71	1.75	0.68
11:AB:7166:DC:H2''	11:AB:7167:DT:H71	1.75	0.68
17:B4:20:DC:C2'	17:B4:21:DT:H71	2.24	0.68
22:B9:20:DC:C2'	22:B9:21:DT:H71	2.23	0.68
24:BC:41:DC:C2'	57:EC:8:DT:H71	2.24	0.68
35:CC:12:DC:H2''	35:CC:13:DT:H71	1.75	0.68
59:F1:11:DC:H2''	59:F1:12:DT:H71	1.75	0.68
74:G6:30:DC:C2'	213:U3:15:DT:H71	2.24	0.68
83:H3:8:DT:H71	181:Q9:39:DC:H2''	1.75	0.68
83:H3:16:DC:H2''	83:H3:17:DT:H71	1.75	0.68
90:HC:5:DC:H2''	90:HC:6:DT:H71	1.75	0.68
110:J9:21:DC:H2''	110:J9:22:DT:H71	1.75	0.68
117:K5:29:DC:H2''	117:K5:30:DT:H71	1.76	0.68
125:L1:37:DC:H2''	125:L1:38:DT:H71	1.75	0.68
133:LA:7:DC:H2''	133:LA:8:DT:H71	1.75	0.68
140:M7:9:DC:C2'	140:M7:10:DT:H71	2.23	0.68
154:NC:2:DC:H2''	154:NC:3:DT:H71	1.75	0.68
169:P6:20:DC:H2''	169:P6:21:DT:H71	1.75	0.68
203:T2:5:DC:H2''	203:T2:6:DT:H71	1.75	0.68
206:T7:3:DC:H2''	206:T7:4:DT:H71	1.75	0.68
210:TC:12:DC:H2''	210:TC:13:DT:H71	1.75	0.68
221:V2:1:DC:H2''	221:V2:2:DT:H71	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
230:W3:31:DC:H2''	230:W3:32:DT:H71	1.75	0.68
238:X9:5:DC:H2''	238:X9:6:DT:H71	1.75	0.68
8:A8:22:DC:C2'	8:A8:23:DT:H71	2.24	0.68
11:AB:128:DC:H2''	11:AB:129:DT:H71	1.75	0.68
11:AB:187:DC:C2'	11:AB:188:DT:H71	2.24	0.68
11:AB:256:DC:C2'	11:AB:257:DT:H71	2.24	0.68
11:AB:397:DC:H2''	11:AB:398:DT:H71	1.75	0.68
11:AB:472:DC:H2''	11:AB:473:DT:H71	1.75	0.68
11:AB:586:DC:C2'	11:AB:587:DT:H71	2.24	0.68
11:AB:649:DC:C2'	11:AB:650:DT:H71	2.24	0.68
11:AB:961:DC:H2''	11:AB:962:DT:H71	1.75	0.68
11:AB:1048:DC:H2''	11:AB:1049:DT:H71	1.75	0.68
11:AB:1147:DC:H2''	11:AB:1148:DT:H71	1.75	0.68
11:AB:1162:DC:C2'	11:AB:1163:DT:H71	2.24	0.68
11:AB:1404:DC:H2''	11:AB:1405:DT:H71	1.75	0.68
11:AB:1436:DC:H2''	11:AB:1437:DT:H71	1.75	0.68
11:AB:1478:DC:H2''	11:AB:1479:DT:H71	1.75	0.68
11:AB:1536:DC:C2'	11:AB:1537:DT:H71	2.24	0.68
11:AB:1675:DC:C2'	11:AB:1676:DT:H71	2.24	0.68
11:AB:1691:DC:C2'	11:AB:1692:DT:H71	2.24	0.68
11:AB:1872:DC:H2''	11:AB:1873:DT:H71	1.75	0.68
11:AB:1893:DC:H2''	11:AB:1894:DT:H71	1.75	0.68
11:AB:1951:DC:C2'	11:AB:1952:DT:H71	2.24	0.68
11:AB:1954:DC:H2''	11:AB:1955:DT:H71	1.75	0.68
11:AB:2332:DC:H2''	11:AB:2333:DT:H71	1.75	0.68
11:AB:2425:DC:C2'	11:AB:2426:DT:H71	2.24	0.68
11:AB:2497:DC:C2'	11:AB:2498:DT:H71	2.24	0.68
11:AB:2529:DC:H2''	11:AB:2530:DT:H71	1.76	0.68
11:AB:2584:DC:H2''	11:AB:2585:DT:H71	1.75	0.68
11:AB:3011:DC:C2'	11:AB:3012:DT:H71	2.24	0.68
11:AB:3143:DC:H2''	11:AB:3144:DT:H71	1.75	0.68
11:AB:3146:DC:C2'	11:AB:3147:DT:H71	2.24	0.68
11:AB:3263:DC:H2''	11:AB:3264:DT:H71	1.75	0.68
11:AB:3359:DC:H2''	11:AB:3360:DT:H71	1.75	0.68
11:AB:3443:DC:H2''	11:AB:3444:DT:H71	1.75	0.68
11:AB:3485:DC:C2'	11:AB:3486:DT:H71	2.24	0.68
11:AB:3500:DC:H2''	11:AB:3501:DT:H71	1.75	0.68
11:AB:3647:DC:C2'	11:AB:3648:DT:H71	2.24	0.68
11:AB:3830:DC:C2'	11:AB:3831:DT:H71	2.24	0.68
11:AB:3950:DC:H2''	11:AB:3951:DT:H71	1.75	0.68
11:AB:4253:DC:H2''	11:AB:4254:DT:H71	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4384:DC:C2'	11:AB:4385:DT:H71	2.24	0.68
11:AB:4467:DC:H2''	11:AB:4468:DT:H71	1.75	0.68
11:AB:4544:DC:C2'	11:AB:4545:DT:H71	2.24	0.68
11:AB:4726:DC:C2'	11:AB:4727:DT:H71	2.24	0.68
11:AB:4810:DC:H2''	11:AB:4811:DT:H71	1.75	0.68
11:AB:4888:DC:H2''	11:AB:4889:DT:H71	1.75	0.68
11:AB:5469:DC:C2'	11:AB:5470:DT:H71	2.24	0.68
11:AB:5789:DC:H2''	11:AB:5790:DT:H71	1.75	0.68
11:AB:5996:DC:H2''	11:AB:5997:DT:H71	1.75	0.68
11:AB:6470:DC:H2''	11:AB:6471:DT:H71	1.75	0.68
11:AB:6614:DC:H2''	11:AB:6615:DT:H71	1.75	0.68
11:AB:6637:DC:C2'	11:AB:6638:DT:H71	2.24	0.68
11:AB:6736:DC:C2'	11:AB:6737:DT:H71	2.24	0.68
11:AB:6862:DC:C2'	11:AB:6863:DT:H71	2.24	0.68
11:AB:6919:DC:H2''	11:AB:6920:DT:H71	1.75	0.68
11:AB:7131:DC:H2''	11:AB:7132:DT:H71	1.75	0.68
11:AB:7147:DC:H2''	11:AB:7148:DT:H71	1.75	0.68
11:AB:7191:DC:C2'	11:AB:7192:DT:H71	2.23	0.68
22:B9:6:DC:C2'	22:B9:7:DT:H71	2.24	0.68
23:BA:27:DC:C2'	23:BA:28:DT:H71	2.24	0.68
26:C1:14:DC:H2''	26:C1:15:DT:H71	1.75	0.68
51:E5:26:DC:C2'	51:E5:27:DT:H71	2.24	0.68
54:E8:18:DC:C2'	54:E8:19:DT:H71	2.23	0.68
54:E8:18:DC:H2''	54:E8:19:DT:H71	1.75	0.68
57:EC:16:DC:C2'	57:EC:17:DT:H71	2.24	0.68
71:G2:6:DC:C2'	71:G2:7:DT:H71	2.24	0.68
75:G7:6:DC:H2''	75:G7:7:DT:H71	1.75	0.68
77:G9:6:DT:H71	156:O2:56:DC:C2'	2.24	0.68
82:H2:34:DC:C2'	150:N7:1:DT:H71	2.24	0.68
124:KD:4:DC:H2''	124:KD:5:DT:H71	1.75	0.68
125:L1:37:DC:C2'	125:L1:38:DT:H71	2.24	0.68
147:N3:13:DC:C2'	147:N3:14:DT:H71	2.24	0.68
167:P3:23:DC:C2'	167:P3:24:DT:H71	2.24	0.68
167:P3:33:DC:H2''	167:P3:34:DT:H71	1.75	0.68
180:Q8:22:DC:C2'	180:Q8:23:DT:H71	2.24	0.68
186:R3:14:DT:H71	204:T3:7:DC:C2'	2.24	0.68
220:UD:1:DC:C2'	220:UD:2:DT:H71	2.24	0.68
230:W3:7:DC:C2'	230:W3:8:DT:H71	2.24	0.68
238:X9:5:DC:C2'	238:X9:6:DT:H71	2.24	0.68
11:AB:115:DC:C2'	11:AB:116:DT:H71	2.24	0.68
11:AB:200:DC:C2'	11:AB:201:DT:H71	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:263:DC:C2'	11:AB:264:DT:H71	2.24	0.68
11:AB:418:DC:C2'	11:AB:419:DT:H71	2.23	0.68
11:AB:559:DC:H2''	11:AB:560:DT:H71	1.75	0.68
11:AB:565:DC:C2'	11:AB:566:DT:H71	2.24	0.68
11:AB:594:DC:C2'	11:AB:595:DT:H71	2.24	0.68
11:AB:601:DC:C2'	11:AB:602:DT:H71	2.23	0.68
11:AB:664:DC:H2''	11:AB:665:DT:H71	1.75	0.68
11:AB:826:DC:C2'	11:AB:827:DT:H71	2.24	0.68
11:AB:841:DC:H2''	11:AB:842:DT:H71	1.75	0.68
11:AB:863:DC:C2'	11:AB:864:DT:H71	2.24	0.68
11:AB:889:DC:H2''	11:AB:890:DT:H71	1.75	0.68
11:AB:1078:DC:H2''	11:AB:1079:DT:H71	1.75	0.68
11:AB:1128:DC:C2'	11:AB:1129:DT:H71	2.24	0.68
11:AB:1249:DC:H2''	11:AB:1250:DT:H71	1.75	0.68
11:AB:1306:DC:H2''	11:AB:1307:DT:H71	1.75	0.68
11:AB:1387:DC:C2'	11:AB:1388:DT:H71	2.24	0.68
11:AB:1404:DC:C2'	11:AB:1405:DT:H71	2.24	0.68
11:AB:1420:DC:H2''	11:AB:1421:DT:H71	1.75	0.68
11:AB:1522:DC:C2'	11:AB:1523:DT:H71	2.24	0.68
11:AB:1602:DC:H2''	11:AB:1603:DT:H71	1.75	0.68
11:AB:1662:DC:C2'	11:AB:1663:DT:H71	2.24	0.68
11:AB:1695:DC:H2''	11:AB:1696:DT:H71	1.75	0.68
11:AB:1743:DC:H2''	11:AB:1744:DT:H71	1.75	0.68
11:AB:1960:DC:C2'	11:AB:1961:DT:H71	2.24	0.68
11:AB:1972:DC:C2'	11:AB:1973:DT:H71	2.24	0.68
11:AB:2176:DC:H2''	11:AB:2177:DT:H71	1.75	0.68
11:AB:2260:DC:C2'	11:AB:2261:DT:H71	2.24	0.68
11:AB:2383:DC:H2''	11:AB:2384:DT:H71	1.75	0.68
11:AB:2535:DC:H2''	11:AB:2536:DT:H71	1.75	0.68
11:AB:2618:DC:C2'	11:AB:2619:DT:H71	2.24	0.68
11:AB:2664:DC:H2''	11:AB:2665:DT:H71	1.75	0.68
11:AB:2843:DC:C2'	11:AB:2844:DT:H71	2.24	0.68
11:AB:2879:DC:H2''	11:AB:2880:DT:H71	1.75	0.68
11:AB:2881:DC:H2''	11:AB:2882:DT:H71	1.75	0.68
11:AB:2984:DC:C2'	11:AB:2985:DT:H71	2.24	0.68
11:AB:2992:DC:C2'	11:AB:2993:DT:H71	2.24	0.68
11:AB:3159:DC:C2'	11:AB:3160:DT:H71	2.24	0.68
11:AB:3185:DC:C2'	11:AB:3186:DT:H71	2.23	0.68
11:AB:3294:DC:H2''	11:AB:3295:DT:H71	1.75	0.68
11:AB:3340:DC:C2'	11:AB:3341:DT:H71	2.24	0.68
11:AB:3352:DC:H2''	11:AB:3353:DT:H71	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3464:DC:C2'	11:AB:3465:DT:H71	2.24	0.68
11:AB:3515:DC:C2'	11:AB:3516:DT:H71	2.24	0.68
11:AB:3902:DC:H2''	11:AB:3903:DT:H71	1.75	0.68
11:AB:3964:DC:H2''	11:AB:3965:DT:H71	1.75	0.68
11:AB:3964:DC:C2'	11:AB:3965:DT:H71	2.24	0.68
11:AB:3991:DC:C2'	11:AB:3992:DT:H71	2.24	0.68
11:AB:3999:DC:C2'	11:AB:4000:DT:H71	2.24	0.68
11:AB:4005:DC:C2'	11:AB:4006:DT:H71	2.24	0.68
11:AB:4007:DC:C2'	11:AB:4008:DT:H71	2.24	0.68
11:AB:4124:DC:C2'	11:AB:4125:DT:H71	2.24	0.68
11:AB:4205:DC:H2''	11:AB:4206:DT:H71	1.75	0.68
11:AB:4690:DC:C2'	11:AB:4691:DT:H71	2.24	0.68
11:AB:4719:DC:C2'	11:AB:4720:DT:H71	2.24	0.68
11:AB:4827:DC:H2''	11:AB:4828:DT:H71	1.75	0.68
11:AB:4855:DC:C2'	11:AB:4856:DT:H71	2.24	0.68
11:AB:5063:DC:C2'	11:AB:5064:DT:H71	2.24	0.68
11:AB:5155:DC:H2''	11:AB:5156:DT:H71	1.75	0.68
11:AB:5380:DC:H2''	11:AB:5381:DT:H71	1.75	0.68
11:AB:5392:DC:H2''	11:AB:5393:DT:H71	1.75	0.68
11:AB:5397:DC:H2''	11:AB:5398:DT:H71	1.75	0.68
11:AB:5461:DC:C2'	11:AB:5462:DT:H71	2.24	0.68
11:AB:5527:DC:C2'	11:AB:5528:DT:H71	2.24	0.68
11:AB:5678:DC:H2''	11:AB:5679:DT:H71	1.75	0.68
11:AB:5795:DC:C2'	11:AB:5796:DT:H71	2.24	0.68
11:AB:6182:DC:C2'	11:AB:6183:DT:H71	2.24	0.68
11:AB:6219:DC:H2''	11:AB:6220:DT:H71	1.75	0.68
11:AB:6224:DC:H2''	11:AB:6225:DT:H71	1.75	0.68
11:AB:6408:DC:C2'	11:AB:6409:DT:H71	2.24	0.68
11:AB:6503:DC:C2'	11:AB:6504:DT:H71	2.24	0.68
11:AB:6792:DC:C2'	11:AB:6793:DT:H71	2.24	0.68
11:AB:6860:DC:C2'	11:AB:6861:DT:H71	2.24	0.68
11:AB:6888:DC:H2''	11:AB:6889:DT:H71	1.76	0.68
11:AB:6919:DC:C2'	11:AB:6920:DT:H71	2.24	0.68
11:AB:7052:DC:C2'	11:AB:7053:DT:H71	2.24	0.68
11:AB:7052:DC:H2''	11:AB:7053:DT:H71	1.75	0.68
11:AB:7118:DC:C2'	11:AB:7119:DT:H71	2.24	0.68
11:AB:7149:DC:C2'	11:AB:7150:DT:H71	2.24	0.68
11:AB:7149:DC:H2''	11:AB:7150:DT:H71	1.75	0.68
11:AB:7225:DC:C2'	11:AB:7226:DT:H71	2.24	0.68
11:AB:7237:DC:H2''	11:AB:7238:DT:H71	1.75	0.68
21:B8:3:DC:H2''	21:B8:4:DT:H71	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BA:24:DC:C2'	23:BA:25:DT:H71	2.23	0.68
32:C8:44:DC:C2'	32:C8:45:DT:H71	2.24	0.68
39:D3:6:DC:H2''	39:D3:7:DT:H71	1.75	0.68
39:D3:6:DC:C2'	39:D3:7:DT:H71	2.24	0.68
41:D6:6:DC:C2'	41:D6:7:DT:H71	2.24	0.68
41:D6:45:DC:H2''	41:D6:46:DT:H71	1.75	0.68
43:D8:18:DC:C2'	43:D8:19:DT:H71	2.24	0.68
44:D9:19:DC:H2''	44:D9:20:DT:H71	1.75	0.68
54:E8:29:DC:H2''	54:E8:30:DT:H71	1.75	0.68
54:E8:31:DT:H71	90:HC:16:DC:C2'	2.24	0.68
69:FD:32:DC:H2''	69:FD:33:DT:H71	1.75	0.68
72:G3:15:DC:C2'	72:G3:16:DT:H71	2.24	0.68
83:H3:6:DC:C2'	83:H3:7:DT:H71	2.24	0.68
84:H5:25:DC:H2''	84:H5:26:DT:H71	1.75	0.68
93:I2:46:DC:C2'	93:I2:47:DT:H71	2.24	0.68
102:ID:12:DC:C2'	175:PD:14:DT:H71	2.24	0.68
109:J8:35:DC:C2'	237:X7:1:DT:H71	2.24	0.68
110:J9:7:DC:C2'	110:J9:8:DT:H71	2.24	0.68
114:K1:42:DC:C2'	114:K1:43:DT:H71	2.24	0.68
119:K7:33:DC:C2'	119:K7:34:DT:H71	2.24	0.68
122:KA:36:DT:H71	226:V9:18:DC:H2''	1.75	0.68
124:KD:4:DC:C2'	124:KD:5:DT:H71	2.24	0.68
138:M5:37:DC:H2''	138:M5:38:DT:H71	1.75	0.68
151:N8:18:DT:H71	164:OC:16:DC:C2'	2.24	0.68
156:O2:8:DC:C2'	156:O2:9:DT:H71	2.24	0.68
156:O2:12:DC:H2''	156:O2:13:DT:H71	1.75	0.68
161:O8:17:DC:C2'	161:O8:18:DT:H71	2.24	0.68
163:OA:14:DC:C2'	163:OA:15:DT:H71	2.24	0.68
167:P3:33:DC:C2'	167:P3:34:DT:H71	2.24	0.68
177:Q3:9:DC:H2''	177:Q3:10:DT:H71	1.75	0.68
186:R3:15:DC:H2''	186:R3:16:DT:H71	1.75	0.68
186:R3:20:DC:C2'	186:R3:21:DT:H71	2.24	0.68
204:T3:15:DC:C2'	204:T3:16:DT:H71	2.24	0.68
207:T8:17:DC:C2'	207:T8:18:DT:H71	2.24	0.68
208:T9:21:DC:H2''	208:T9:22:DT:H71	1.75	0.68
1:A1:50:DC:H2''	1:A1:51:DT:H71	1.76	0.68
11:AB:62:DC:C2'	11:AB:63:DT:H71	2.24	0.68
11:AB:62:DC:H2''	11:AB:63:DT:H71	1.75	0.68
11:AB:187:DC:H2''	11:AB:188:DT:H71	1.75	0.68
11:AB:387:DC:C2'	11:AB:388:DT:H71	2.23	0.68
11:AB:397:DC:C2'	11:AB:398:DT:H71	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:517:DC:C2'	11:AB:518:DT:H71	2.24	0.68
11:AB:538:DC:C2'	11:AB:539:DT:H71	2.24	0.68
11:AB:559:DC:C2'	11:AB:560:DT:H71	2.24	0.68
11:AB:670:DC:C2'	11:AB:671:DT:H71	2.24	0.68
11:AB:694:DC:H2''	11:AB:695:DT:H71	1.75	0.68
11:AB:743:DC:C2'	11:AB:744:DT:H71	2.24	0.68
11:AB:889:DC:C2'	11:AB:890:DT:H71	2.24	0.68
11:AB:902:DC:C2'	11:AB:903:DT:H71	2.24	0.68
11:AB:961:DC:C2'	11:AB:962:DT:H71	2.24	0.68
11:AB:1078:DC:C2'	11:AB:1079:DT:H71	2.24	0.68
11:AB:1183:DC:C2'	11:AB:1184:DT:H71	2.24	0.68
11:AB:1210:DC:C2'	11:AB:1211:DT:H71	2.24	0.68
11:AB:1240:DC:C2'	11:AB:1241:DT:H71	2.24	0.68
11:AB:1478:DC:C2'	11:AB:1479:DT:H71	2.24	0.68
11:AB:1598:DC:H2''	11:AB:1599:DT:H71	1.75	0.68
11:AB:1662:DC:H2''	11:AB:1663:DT:H71	1.75	0.68
11:AB:1704:DC:H2''	11:AB:1705:DT:H71	1.75	0.68
11:AB:1915:DC:H2''	11:AB:1916:DT:H71	1.75	0.68
11:AB:2025:DC:C2'	11:AB:2026:DT:H71	2.24	0.68
11:AB:2152:DC:H2''	11:AB:2153:DT:H71	1.75	0.68
11:AB:2224:DC:H2''	11:AB:2225:DT:H71	1.75	0.68
11:AB:2242:DC:H2''	11:AB:2243:DT:H71	1.75	0.68
11:AB:2277:DC:C2'	11:AB:2278:DT:H71	2.24	0.68
11:AB:2277:DC:H2''	11:AB:2278:DT:H71	1.75	0.68
11:AB:2281:DC:C2'	11:AB:2282:DT:H71	2.24	0.68
11:AB:2353:DC:H2''	11:AB:2354:DT:H71	1.75	0.68
11:AB:2437:DC:C2'	11:AB:2438:DT:H71	2.24	0.68
11:AB:2692:DC:C2'	11:AB:2693:DT:H71	2.24	0.68
11:AB:2879:DC:C2'	11:AB:2880:DT:H71	2.24	0.68
11:AB:3047:DC:C2'	11:AB:3048:DT:H71	2.24	0.68
11:AB:3352:DC:C2'	11:AB:3353:DT:H71	2.24	0.68
11:AB:3443:DC:C2'	11:AB:3444:DT:H71	2.24	0.68
11:AB:3512:DC:C2'	11:AB:3513:DT:H71	2.24	0.68
11:AB:3645:DC:C2'	11:AB:3646:DT:H71	2.24	0.68
11:AB:3674:DC:H2''	11:AB:3675:DT:H71	1.75	0.68
11:AB:3827:DC:C2'	11:AB:3828:DT:H71	2.24	0.68
11:AB:3910:DC:H2''	11:AB:3911:DT:H71	1.75	0.68
11:AB:3938:DC:H2''	11:AB:3939:DT:H71	1.75	0.68
11:AB:4039:DC:H2''	11:AB:4040:DT:H71	1.75	0.68
11:AB:4159:DC:H2''	11:AB:4160:DT:H71	1.75	0.68
11:AB:4362:DC:H2''	11:AB:4363:DT:H71	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4391:DC:C2'	11:AB:4392:DT:H71	2.24	0.68
11:AB:4391:DC:H2''	11:AB:4392:DT:H71	1.75	0.68
11:AB:4467:DC:C2'	11:AB:4468:DT:H71	2.24	0.68
11:AB:4500:DC:C2'	11:AB:4501:DT:H71	2.24	0.68
11:AB:4810:DC:C2'	11:AB:4811:DT:H71	2.24	0.68
11:AB:5511:DC:C2'	11:AB:5512:DT:H71	2.24	0.68
11:AB:5522:DC:C2'	11:AB:5523:DT:H71	2.24	0.68
11:AB:5585:DC:C2'	11:AB:5586:DT:H71	2.24	0.68
11:AB:5699:DC:C2'	11:AB:5700:DT:H71	2.24	0.68
11:AB:5750:DC:H2''	11:AB:5751:DT:H71	1.75	0.68
11:AB:6053:DC:C2'	11:AB:6054:DT:H71	2.24	0.68
11:AB:6053:DC:H2''	11:AB:6054:DT:H71	1.75	0.68
11:AB:6103:DC:C2'	11:AB:6104:DT:H71	2.24	0.68
11:AB:6118:DC:H2''	11:AB:6119:DT:H71	1.75	0.68
11:AB:6131:DC:C2'	11:AB:6132:DT:H71	2.24	0.68
11:AB:6155:DC:C2'	11:AB:6156:DT:H71	2.24	0.68
11:AB:6190:DC:C2'	11:AB:6191:DT:H71	2.24	0.68
11:AB:6202:DC:H2''	11:AB:6203:DT:H71	1.75	0.68
11:AB:6276:DC:H2''	11:AB:6277:DT:H71	1.75	0.68
11:AB:6284:DC:C2'	11:AB:6285:DT:H71	2.24	0.68
11:AB:6284:DC:H2''	11:AB:6285:DT:H71	1.75	0.68
11:AB:6395:DC:H2''	11:AB:6396:DT:H71	1.75	0.68
11:AB:6527:DC:H2''	11:AB:6528:DT:H71	1.75	0.68
11:AB:6533:DC:C2'	11:AB:6534:DT:H71	2.24	0.68
11:AB:6551:DC:C2'	11:AB:6552:DT:H71	2.24	0.68
11:AB:6602:DC:C2'	11:AB:6603:DT:H71	2.24	0.68
11:AB:6807:DC:C2'	11:AB:6808:DT:H71	2.24	0.68
11:AB:6978:DC:C2'	11:AB:6979:DT:H71	2.24	0.68
11:AB:6988:DC:C2'	11:AB:6989:DT:H71	2.24	0.68
11:AB:7045:DC:H2''	11:AB:7046:DT:H71	1.75	0.68
11:AB:7147:DC:C2'	11:AB:7148:DT:H71	2.24	0.68
34:CA:15:DC:C2'	34:CA:16:DT:H71	2.24	0.68
43:D8:29:DC:C2'	43:D8:30:DT:H71	2.24	0.68
46:DC:9:DC:H2''	46:DC:10:DT:H71	1.75	0.68
46:DC:21:DC:C2'	46:DC:22:DT:H71	2.24	0.68
55:E9:23:DC:C2'	55:E9:24:DT:H71	2.24	0.68
55:E9:23:DC:H2''	55:E9:24:DT:H71	1.75	0.68
58:ED:17:DC:C2'	58:ED:18:DT:H71	2.24	0.68
60:F2:7:DC:H2''	60:F2:8:DT:H71	1.75	0.68
65:F8:4:DC:H2''	65:F8:5:DT:H71	1.75	0.68
69:FD:32:DC:C2'	69:FD:33:DT:H71	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:G1:3:DC:C2'	70:G1:4:DT:H71	2.24	0.68
72:G3:2:DC:H2''	72:G3:3:DT:H71	1.75	0.68
74:G6:30:DC:H2''	213:U3:15:DT:H71	1.75	0.68
75:G7:6:DC:C2'	75:G7:7:DT:H71	2.24	0.68
82:H2:6:DC:H2''	82:H2:7:DT:H71	1.75	0.68
89:HA:33:DC:H2''	89:HA:34:DT:H71	1.75	0.68
90:HC:19:DC:C2'	90:HC:20:DT:H71	2.24	0.68
97:I7:28:DC:C2'	97:I7:29:DT:H71	2.24	0.68
104:J2:18:DC:C2'	104:J2:19:DT:H71	2.23	0.68
106:J5:8:DC:C2'	106:J5:9:DT:H71	2.24	0.68
121:K9:21:DC:C2'	121:K9:22:DT:H71	2.24	0.68
128:L5:6:DC:C2'	128:L5:7:DT:H71	2.24	0.68
143:MA:15:DC:H2''	143:MA:16:DT:H71	1.75	0.68
154:NC:2:DC:C2'	154:NC:3:DT:H71	2.24	0.68
154:NC:32:DC:C2'	154:NC:33:DT:H71	2.24	0.68
171:P8:12:DC:H2''	171:P8:13:DT:H71	1.75	0.68
181:Q9:7:DC:C2'	181:Q9:8:DT:H71	2.24	0.68
185:R2:13:DC:H2''	185:R2:14:DT:H71	1.75	0.68
188:R7:31:DC:C2'	188:R7:32:DT:H71	2.24	0.68
189:R8:16:DC:C2'	189:R8:17:DT:H71	2.24	0.68
210:TC:6:DC:C2'	210:TC:7:DT:H71	2.24	0.68
212:U2:17:DC:C2'	212:U2:18:DT:H71	2.24	0.68
215:U7:12:DC:H2''	215:U7:13:DT:H71	1.75	0.68
215:U7:19:DC:H2''	215:U7:20:DT:H71	1.75	0.68
217:U9:12:DC:C2'	217:U9:13:DT:H71	2.24	0.68
217:U9:12:DC:H2''	217:U9:13:DT:H71	1.75	0.68
227:VA:3:DC:H2''	227:VA:4:DT:H71	1.75	0.68
2:A2:21:DC:C2'	2:A2:22:DT:H71	2.24	0.68
7:A7:37:DC:H2''	7:A7:38:DT:H71	1.75	0.68
11:AB:299:DC:H2''	11:AB:300:DT:H71	1.75	0.68
11:AB:448:DC:H2''	11:AB:449:DT:H71	1.75	0.68
11:AB:517:DC:H2''	11:AB:518:DT:H71	1.75	0.68
11:AB:519:DC:C2'	11:AB:520:DT:H71	2.24	0.68
11:AB:538:DC:H2''	11:AB:539:DT:H71	1.75	0.68
11:AB:544:DC:H2''	11:AB:545:DT:H71	1.75	0.68
11:AB:594:DC:H2''	11:AB:595:DT:H71	1.75	0.68
11:AB:664:DC:C2'	11:AB:665:DT:H71	2.24	0.68
11:AB:769:DC:C2'	11:AB:770:DT:H71	2.24	0.68
11:AB:778:DC:C2'	11:AB:779:DT:H71	2.24	0.68
11:AB:782:DC:C2'	11:AB:783:DT:H71	2.24	0.68
11:AB:831:DC:C2'	11:AB:832:DT:H71	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:841:DC:C2'	11:AB:842:DT:H71	2.24	0.68
11:AB:1041:DC:C2'	11:AB:1042:DT:H71	2.24	0.68
11:AB:1096:DC:C2'	11:AB:1097:DT:H71	2.24	0.68
11:AB:1132:DC:C2'	11:AB:1133:DT:H71	2.24	0.68
11:AB:1169:DT:H71	11:AB:6338:DC:C2'	2.24	0.68
11:AB:1183:DC:H2''	11:AB:1184:DT:H71	1.75	0.68
11:AB:1420:DC:C2'	11:AB:1421:DT:H71	2.24	0.68
11:AB:1436:DC:C2'	11:AB:1437:DT:H71	2.24	0.68
11:AB:1522:DC:H2''	11:AB:1523:DT:H71	1.75	0.68
11:AB:1626:DC:C2'	11:AB:1627:DT:H71	2.24	0.68
11:AB:1872:DC:C2'	11:AB:1873:DT:H71	2.24	0.68
11:AB:1893:DC:C2'	11:AB:1894:DT:H71	2.24	0.68
11:AB:1932:DC:H2''	11:AB:1933:DT:H71	1.75	0.68
11:AB:2041:DC:C2'	11:AB:2042:DT:H71	2.24	0.68
11:AB:2224:DC:C2'	11:AB:2225:DT:H71	2.24	0.68
11:AB:2317:DC:C2'	11:AB:2318:DT:H71	2.24	0.68
11:AB:2497:DC:H2''	11:AB:2498:DT:H71	1.75	0.68
11:AB:2658:DC:C2'	11:AB:2659:DT:H71	2.24	0.68
11:AB:2764:DC:C2'	11:AB:2765:DT:H71	2.24	0.68
11:AB:2843:DC:H2''	11:AB:2844:DT:H71	1.75	0.68
11:AB:2881:DC:C2'	11:AB:2882:DT:H71	2.24	0.68
11:AB:2984:DC:H2''	11:AB:2985:DT:H71	1.75	0.68
11:AB:3047:DC:H2''	11:AB:3048:DT:H71	1.75	0.68
11:AB:3146:DC:H2''	11:AB:3147:DT:H71	1.75	0.68
11:AB:3294:DC:C2'	11:AB:3295:DT:H71	2.24	0.68
11:AB:3359:DC:C2'	11:AB:3360:DT:H71	2.24	0.68
11:AB:3425:DC:C2'	11:AB:3426:DT:H71	2.24	0.68
11:AB:3452:DC:C2'	11:AB:3453:DT:H71	2.24	0.68
11:AB:3616:DC:H2''	11:AB:3617:DT:H71	1.75	0.68
11:AB:3764:DC:C2'	11:AB:3765:DT:H71	2.24	0.68
11:AB:3793:DC:C2'	11:AB:3794:DT:H71	2.24	0.68
11:AB:3904:DC:C2'	11:AB:3905:DT:H71	2.24	0.68
11:AB:3910:DC:C2'	11:AB:3911:DT:H71	2.24	0.68
11:AB:3919:DC:C2'	11:AB:3920:DT:H71	2.24	0.68
11:AB:3950:DC:C2'	11:AB:3951:DT:H71	2.24	0.68
11:AB:4136:DC:C2'	11:AB:4137:DT:H71	2.24	0.68
11:AB:4146:DC:C2'	11:AB:4147:DT:H71	2.24	0.68
11:AB:4325:DC:C2'	11:AB:4326:DT:H71	2.24	0.68
11:AB:4384:DC:H2''	11:AB:4385:DT:H71	1.75	0.68
11:AB:4544:DC:H2''	11:AB:4545:DT:H71	1.75	0.68
11:AB:4888:DC:C2'	11:AB:4889:DT:H71	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5140:DC:C2'	11:AB:5141:DT:H71	2.24	0.68
11:AB:5302:DC:C2'	11:AB:5303:DT:H71	2.24	0.68
11:AB:5392:DC:C2'	11:AB:5393:DT:H71	2.24	0.68
11:AB:5527:DC:H2''	11:AB:5528:DT:H71	1.76	0.68
11:AB:5606:DC:C2'	11:AB:5607:DT:H71	2.24	0.68
11:AB:5615:DC:C2'	11:AB:5616:DT:H71	2.24	0.68
11:AB:5615:DC:H2''	11:AB:5616:DT:H71	1.75	0.68
11:AB:5759:DC:C2'	11:AB:5760:DT:H71	2.24	0.68
11:AB:5789:DC:C2'	11:AB:5790:DT:H71	2.24	0.68
11:AB:5800:DC:C2'	11:AB:5801:DT:H71	2.24	0.68
11:AB:5828:DC:C2'	11:AB:5829:DT:H71	2.24	0.68
11:AB:5936:DC:C2'	11:AB:5937:DT:H71	2.24	0.68
11:AB:5981:DC:C2'	11:AB:5982:DT:H71	2.24	0.68
11:AB:6025:DC:H2''	11:AB:6026:DT:H71	1.75	0.68
11:AB:6219:DC:C2'	11:AB:6220:DT:H71	2.24	0.68
11:AB:6276:DC:C2'	11:AB:6277:DT:H71	2.24	0.68
11:AB:6359:DC:C2'	11:AB:6360:DT:H71	2.24	0.68
11:AB:6381:DC:H2''	11:AB:6382:DT:H71	1.75	0.68
11:AB:6381:DC:C2'	11:AB:6382:DT:H71	2.24	0.68
11:AB:6410:DC:C2'	11:AB:6411:DT:H71	2.23	0.68
11:AB:6414:DC:H2''	11:AB:6415:DT:H71	1.75	0.68
11:AB:6436:DC:C2'	11:AB:6437:DT:H71	2.24	0.68
11:AB:6470:DC:C2'	11:AB:6471:DT:H71	2.24	0.68
11:AB:6486:DC:C2'	11:AB:6487:DT:H71	2.23	0.68
11:AB:6527:DC:C2'	11:AB:6528:DT:H71	2.24	0.68
11:AB:6533:DC:H2''	11:AB:6534:DT:H71	1.75	0.68
11:AB:6547:DC:H2''	11:AB:6548:DT:H71	1.75	0.68
11:AB:6602:DC:H2''	11:AB:6603:DT:H71	1.75	0.68
11:AB:6706:DC:C2'	11:AB:6707:DT:H71	2.24	0.68
11:AB:6827:DC:C2'	11:AB:6828:DT:H71	2.24	0.68
11:AB:6909:DC:C2'	11:AB:6910:DT:H71	2.24	0.68
11:AB:6988:DC:H2''	11:AB:6989:DT:H71	1.75	0.68
11:AB:7131:DC:C2'	11:AB:7132:DT:H71	2.24	0.68
11:AB:7139:DC:C2'	11:AB:7140:DT:H71	2.24	0.68
22:B9:38:DC:H2''	22:B9:39:DT:H71	1.75	0.68
41:D6:36:DC:C2'	41:D6:37:DT:H71	2.24	0.68
46:DC:13:DC:C2'	57:EC:1:DT:H71	2.24	0.68
46:DC:13:DC:H2''	57:EC:1:DT:H71	1.75	0.68
52:E6:24:DC:H2''	52:E6:25:DT:H71	1.75	0.68
60:F2:7:DC:C2'	60:F2:8:DT:H71	2.24	0.68
62:F5:7:DC:C2'	62:F5:8:DT:H71	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:F7:7:DC:H2''	64:F7:8:DT:H71	1.75	0.68
74:G6:13:DC:C2'	74:G6:14:DT:H71	2.24	0.68
77:G9:1:DC:C2'	77:G9:2:DT:H71	2.24	0.68
82:H2:32:DC:H2''	82:H2:33:DT:H71	1.75	0.68
83:H3:16:DC:C2'	83:H3:17:DT:H71	2.24	0.68
84:H5:25:DC:C2'	84:H5:26:DT:H71	2.24	0.68
84:H5:36:DC:H2''	84:H5:37:DT:H71	1.75	0.68
85:H6:18:DC:C2'	85:H6:19:DT:H71	2.24	0.68
85:H6:24:DC:C2'	85:H6:25:DT:H71	2.24	0.68
90:HC:19:DC:H2''	90:HC:20:DT:H71	1.75	0.68
100:IA:11:DC:C2'	100:IA:12:DT:H71	2.24	0.68
104:J2:30:DC:H2''	104:J2:31:DT:H71	1.75	0.68
114:K1:39:DC:C2'	114:K1:40:DT:H71	2.24	0.68
118:K6:16:DC:C2'	118:K6:17:DT:H71	2.24	0.68
122:KA:36:DT:H71	226:V9:18:DC:C2'	2.24	0.68
141:M8:19:DC:H2''	141:M8:20:DT:H71	1.75	0.68
145:MD:25:DC:H2''	145:MD:26:DT:H71	1.75	0.68
148:N5:24:DC:C2'	148:N5:25:DT:H71	2.24	0.68
151:N8:18:DT:H71	164:OC:16:DC:H2''	1.75	0.68
152:N9:19:DC:C2'	152:N9:20:DT:H71	2.24	0.68
171:P8:7:DC:C2'	171:P8:8:DT:H71	2.24	0.68
174:PC:12:DC:H2''	174:PC:13:DT:H71	1.75	0.68
178:Q5:22:DC:C2'	178:Q5:23:DT:H71	2.24	0.68
181:Q9:7:DC:H2''	181:Q9:8:DT:H71	1.75	0.68
181:Q9:22:DC:C2'	181:Q9:23:DT:H71	2.24	0.68
185:R2:13:DC:C2'	185:R2:14:DT:H71	2.24	0.68
189:R8:16:DC:H2''	189:R8:17:DT:H71	1.75	0.68
195:S3:3:DC:C2'	195:S3:4:DT:H71	2.24	0.68
209:TA:34:DC:C2'	209:TA:35:DT:H71	2.24	0.68
212:U2:5:DC:H2''	212:U2:6:DT:H71	1.75	0.68
212:U2:5:DC:C2'	212:U2:6:DT:H71	2.24	0.68
214:U5:10:DC:C2'	214:U5:11:DT:H71	2.24	0.68
214:U5:10:DC:H2''	214:U5:11:DT:H71	1.75	0.68
214:U5:18:DC:C2'	214:U5:19:DT:H71	2.24	0.68
230:W3:7:DC:H2''	230:W3:8:DT:H71	1.75	0.68
231:W5:14:DC:C2'	231:W5:15:DT:H71	2.23	0.68
234:W9:10:DC:H2''	234:W9:11:DT:H71	1.75	0.68
2:A2:14:DC:C2'	2:A2:15:DT:H71	2.24	0.68
11:AB:128:DC:C2'	11:AB:129:DT:H71	2.24	0.68
11:AB:500:DC:C2'	11:AB:501:DT:H71	2.24	0.68
11:AB:529:DC:C2'	11:AB:530:DT:H71	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:544:DC:C2'	11:AB:545:DT:H71	2.24	0.68
11:AB:712:DC:C2'	11:AB:713:DT:H71	2.24	0.68
11:AB:1000:DC:C2'	11:AB:1001:DT:H71	2.24	0.68
11:AB:1065:DC:C2'	11:AB:1066:DT:H71	2.24	0.68
11:AB:1093:DC:C2'	11:AB:1094:DT:H71	2.24	0.68
11:AB:1328:DC:C2'	11:AB:1329:DT:H71	2.24	0.68
11:AB:1353:DC:C2'	11:AB:1354:DT:H71	2.24	0.68
11:AB:1396:DC:C2'	11:AB:1397:DT:H71	2.24	0.68
11:AB:1466:DC:C2'	11:AB:1467:DT:H71	2.24	0.68
11:AB:1485:DC:C2'	11:AB:1486:DT:H71	2.24	0.68
11:AB:1495:DC:C2'	11:AB:1496:DT:H71	2.24	0.68
11:AB:1499:DC:H2''	11:AB:1500:DT:H71	1.75	0.68
11:AB:1560:DC:C2'	11:AB:1561:DT:H71	2.24	0.68
11:AB:1562:DC:H2''	11:AB:1563:DT:H71	1.75	0.68
11:AB:1626:DC:H2''	11:AB:1627:DT:H71	1.75	0.68
11:AB:1786:DC:C2'	11:AB:1787:DT:H71	2.24	0.68
11:AB:1799:DC:C2'	11:AB:1800:DT:H71	2.24	0.68
11:AB:1801:DC:H2''	11:AB:1802:DT:H71	1.75	0.68
11:AB:1954:DC:C2'	11:AB:1955:DT:H71	2.24	0.68
11:AB:2041:DC:H2''	11:AB:2042:DT:H71	1.75	0.68
11:AB:2107:DC:C2'	11:AB:2108:DT:H71	2.24	0.68
11:AB:2535:DC:C2'	11:AB:2536:DT:H71	2.24	0.68
11:AB:2960:DC:C2'	11:AB:2961:DT:H71	2.24	0.68
11:AB:3003:DC:H2''	11:AB:3004:DT:H71	1.75	0.68
11:AB:3284:DC:C2'	11:AB:3285:DT:H71	2.24	0.68
11:AB:3374:DC:C2'	11:AB:3375:DT:H71	2.24	0.68
11:AB:3498:DC:C2'	11:AB:3499:DT:H71	2.24	0.68
11:AB:3833:DC:C2'	11:AB:3834:DT:H71	2.24	0.68
11:AB:3854:DC:C2'	11:AB:3855:DT:H71	2.24	0.68
11:AB:3941:DC:H2''	11:AB:3942:DT:H71	1.75	0.68
11:AB:3999:DC:H2''	11:AB:4000:DT:H71	1.75	0.68
11:AB:4039:DC:C2'	11:AB:4040:DT:H71	2.24	0.68
11:AB:4205:DC:C2'	11:AB:4206:DT:H71	2.24	0.68
11:AB:4494:DC:C2'	11:AB:4495:DT:H71	2.24	0.68
11:AB:5020:DC:C2'	11:AB:5021:DT:H71	2.24	0.68
11:AB:5091:DC:C2'	11:AB:5092:DT:H71	2.24	0.68
11:AB:5216:DC:C2'	11:AB:5217:DT:H71	2.24	0.68
11:AB:5663:DC:C2'	11:AB:5664:DT:H71	2.24	0.68
11:AB:5750:DC:C2'	11:AB:5751:DT:H71	2.24	0.68
11:AB:6118:DC:C2'	11:AB:6119:DT:H71	2.24	0.68
11:AB:6147:DC:C2'	11:AB:6148:DT:H71	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6224:DC:C2'	11:AB:6225:DT:H71	2.24	0.68
11:AB:6289:DC:C2'	11:AB:6290:DT:H71	2.24	0.68
11:AB:6436:DC:H2''	11:AB:6437:DT:H71	1.75	0.68
11:AB:6538:DC:C2'	11:AB:6539:DT:H71	2.24	0.68
11:AB:6756:DC:C2'	11:AB:6757:DT:H71	2.24	0.68
11:AB:6855:DC:C2'	11:AB:6856:DT:H71	2.24	0.68
11:AB:6888:DC:C2'	11:AB:6889:DT:H71	2.24	0.68
11:AB:6903:DC:C2'	11:AB:6904:DT:H71	2.24	0.68
11:AB:7000:DC:C2'	11:AB:7001:DT:H71	2.24	0.68
11:AB:7114:DC:C2'	11:AB:7115:DT:H71	2.24	0.68
11:AB:7225:DC:H2''	11:AB:7226:DT:H71	1.75	0.68
21:B8:3:DC:C2'	21:B8:4:DT:H71	2.24	0.68
22:B9:43:DC:C2'	22:B9:44:DT:H71	2.24	0.68
23:BA:27:DC:H2''	23:BA:28:DT:H71	1.75	0.68
26:C1:14:DC:C2'	26:C1:15:DT:H71	2.24	0.68
48:E1:1:DT:H71	187:R5:42:DC:C2'	2.24	0.68
54:E8:29:DC:C2'	54:E8:30:DT:H71	2.24	0.68
54:E8:31:DT:H71	90:HC:16:DC:H2''	1.75	0.68
60:F2:29:DC:C2'	60:F2:30:DT:H71	2.24	0.68
62:F5:20:DC:C2'	62:F5:21:DT:H71	2.24	0.68
74:G6:13:DC:H2''	74:G6:14:DT:H71	1.76	0.68
77:G9:1:DC:H2''	77:G9:2:DT:H71	1.75	0.68
82:H2:6:DC:C2'	82:H2:7:DT:H71	2.24	0.68
82:H2:34:DC:H2''	150:N7:1:DT:H71	1.75	0.68
89:HA:33:DC:C2'	89:HA:34:DT:H71	2.24	0.68
93:I2:43:DC:C2'	93:I2:44:DT:H71	2.24	0.68
101:IC:23:DC:C2'	101:IC:24:DT:H71	2.24	0.68
109:J8:35:DC:H2''	237:X7:1:DT:H71	1.75	0.68
114:K1:8:DC:C2'	114:K1:9:DT:H71	2.24	0.68
118:K6:16:DC:H2''	118:K6:17:DT:H71	1.75	0.68
126:L2:8:DC:C2'	126:L2:9:DT:H71	2.24	0.68
133:LA:7:DC:C2'	133:LA:8:DT:H71	2.24	0.68
138:M5:30:DC:C2'	138:M5:31:DT:H71	2.24	0.68
141:M8:27:DC:C2'	141:M8:28:DT:H71	2.24	0.68
143:MA:32:DC:H2''	143:MA:33:DT:H71	1.75	0.68
152:N9:27:DC:C2'	152:N9:28:DT:H71	2.24	0.68
166:P2:33:DC:H2''	166:P2:34:DT:H71	1.75	0.68
174:PC:12:DC:C2'	174:PC:13:DT:H71	2.24	0.68
186:R3:20:DC:H2''	186:R3:21:DT:H71	1.75	0.68
195:S3:3:DC:H2''	195:S3:4:DT:H71	1.75	0.68
196:S5:24:DC:C2'	196:S5:25:DT:H71	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
205:T5:18:DC:C2'	205:T5:19:DT:H71	2.24	0.68
210:TC:12:DC:C2'	210:TC:13:DT:H71	2.24	0.68
221:V2:1:DC:C2'	221:V2:2:DT:H71	2.24	0.68
227:VA:3:DC:C2'	227:VA:4:DT:H71	2.24	0.68
11:AB:48:DC:C2'	11:AB:49:DT:H71	2.24	0.68
11:AB:205:DC:C2'	11:AB:206:DT:H71	2.24	0.68
11:AB:312:DC:C2'	11:AB:313:DT:H71	2.24	0.68
11:AB:592:DC:H2''	11:AB:593:DT:H71	1.75	0.68
11:AB:877:DC:C2'	11:AB:878:DT:H71	2.24	0.68
11:AB:1343:DC:C2'	11:AB:1344:DT:H71	2.24	0.68
11:AB:1602:DC:C2'	11:AB:1603:DT:H71	2.24	0.68
11:AB:1624:DC:C2'	11:AB:1625:DT:H71	2.24	0.68
11:AB:1743:DC:C2'	11:AB:1744:DT:H71	2.24	0.68
11:AB:1994:DC:C2'	11:AB:1995:DT:H71	2.24	0.68
11:AB:2136:DC:C2'	11:AB:2137:DT:H71	2.24	0.68
11:AB:2264:DC:C2'	11:AB:2265:DT:H71	2.24	0.68
11:AB:2275:DC:C2'	11:AB:2276:DT:H71	2.24	0.68
11:AB:2645:DC:H2''	11:AB:2646:DT:H71	1.76	0.68
11:AB:2650:DC:C2'	11:AB:2651:DT:H71	2.24	0.68
11:AB:2675:DC:C2'	11:AB:2676:DT:H71	2.24	0.68
11:AB:2897:DC:C2'	11:AB:2898:DT:H71	2.24	0.68
11:AB:3143:DC:C2'	11:AB:3144:DT:H71	2.24	0.68
11:AB:3263:DC:C2'	11:AB:3264:DT:H71	2.24	0.68
11:AB:3270:DC:C2'	11:AB:3271:DT:H71	2.24	0.68
11:AB:3344:DC:C2'	11:AB:3345:DT:H71	2.24	0.68
11:AB:3968:DC:C2'	11:AB:3969:DT:H71	2.24	0.68
11:AB:4066:DC:C2'	11:AB:4067:DT:H71	2.24	0.68
11:AB:4164:DC:C2'	11:AB:4165:DT:H71	2.24	0.68
11:AB:4395:DC:C2'	11:AB:4396:DT:H71	2.24	0.68
11:AB:4626:DC:C2'	11:AB:4627:DT:H71	2.24	0.68
11:AB:4862:DC:C2'	11:AB:4863:DT:H71	2.24	0.68
11:AB:4948:DC:C2'	11:AB:4949:DT:H71	2.24	0.68
11:AB:4983:DC:C2'	11:AB:4984:DT:H71	2.24	0.68
11:AB:5431:DC:C2'	11:AB:5432:DT:H71	2.24	0.68
11:AB:5491:DC:C2'	11:AB:5492:DT:H71	2.24	0.68
11:AB:5589:DC:C2'	11:AB:5590:DT:H71	2.24	0.68
11:AB:5765:DC:C2'	11:AB:5766:DT:H71	2.24	0.68
11:AB:5773:DC:C2'	11:AB:5774:DT:H71	2.24	0.68
11:AB:6196:DC:C2'	11:AB:6197:DT:H71	2.24	0.68
11:AB:6202:DC:C2'	11:AB:6203:DT:H71	2.24	0.68
11:AB:6555:DC:C2'	11:AB:6556:DT:H71	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6614:DC:C2'	11:AB:6615:DT:H71	2.24	0.68
11:AB:6840:DC:C2'	11:AB:6841:DT:H71	2.24	0.68
11:AB:7013:DC:C2'	11:AB:7014:DT:H71	2.24	0.68
11:AB:7161:DC:C2'	11:AB:7162:DT:H71	2.24	0.68
11:AB:7182:DC:C2'	11:AB:7183:DT:H71	2.23	0.68
11:AB:7219:DC:C2'	11:AB:7220:DT:H71	2.24	0.68
14:B1:34:DC:C2'	14:B1:35:DT:H71	2.23	0.68
27:C2:7:DC:C2'	27:C2:8:DT:H71	2.24	0.68
35:CC:12:DC:C2'	35:CC:13:DT:H71	2.24	0.68
37:D1:1:DC:C2'	37:D1:2:DT:H71	2.24	0.68
37:D1:37:DC:C2'	37:D1:38:DT:H71	2.24	0.68
49:E2:24:DC:C2'	49:E2:25:DT:H71	2.24	0.68
59:F1:11:DC:C2'	59:F1:12:DT:H71	2.24	0.68
65:F8:1:DC:C2'	65:F8:2:DT:H71	2.24	0.68
70:G1:3:DC:H2''	70:G1:4:DT:H71	1.75	0.68
85:H6:18:DC:H2''	85:H6:19:DT:H71	1.76	0.68
85:H6:24:DC:H2''	85:H6:25:DT:H71	1.75	0.68
102:ID:12:DC:H2''	175:PD:14:DT:H71	1.75	0.68
102:ID:13:DC:C2'	102:ID:14:DT:H71	2.24	0.68
104:J2:37:DC:C2'	104:J2:38:DT:H71	2.24	0.68
114:K1:42:DC:H2''	114:K1:43:DT:H71	1.75	0.68
117:K5:29:DC:C2'	117:K5:30:DT:H71	2.24	0.68
119:K7:40:DC:C2'	119:K7:41:DT:H71	2.24	0.68
122:KA:8:DC:C2'	122:KA:9:DT:H71	2.24	0.68
136:M2:1:DC:C2'	136:M2:2:DT:H71	2.24	0.68
145:MD:25:DC:C2'	145:MD:26:DT:H71	2.24	0.68
149:N6:3:DC:C2'	149:N6:4:DT:H71	2.24	0.68
159:O6:16:DC:C2'	159:O6:17:DT:H71	2.24	0.68
163:OA:14:DC:H2''	163:OA:15:DT:H71	1.75	0.68
164:OC:17:DC:C2'	164:OC:18:DT:H71	2.24	0.68
170:P7:7:DC:C2'	170:P7:8:DT:H71	2.24	0.68
172:P9:17:DC:C2'	172:P9:18:DT:H71	2.24	0.68
177:Q3:9:DC:C2'	177:Q3:10:DT:H71	2.24	0.68
178:Q5:12:DC:H2''	178:Q5:13:DT:H71	1.75	0.68
189:R8:8:DC:C2'	189:R8:9:DT:H71	2.24	0.68
192:RC:21:DC:C2'	192:RC:22:DT:H71	2.24	0.68
220:UD:10:DC:C2'	220:UD:11:DT:H71	2.24	0.68
232:W7:20:DC:C2'	232:W7:21:DT:H71	2.24	0.68
1:A1:50:DC:C2'	1:A1:51:DT:H71	2.24	0.68
11:AB:79:DC:C2'	11:AB:80:DT:H71	2.24	0.68
11:AB:191:DC:C2'	11:AB:192:DT:H71	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:472:DC:C2'	11:AB:473:DT:H71	2.24	0.68
11:AB:571:DC:H2''	11:AB:572:DT:H71	1.75	0.68
11:AB:853:DC:H2''	11:AB:854:DT:H71	1.75	0.68
11:AB:887:DC:C2'	11:AB:888:DT:H71	2.24	0.68
11:AB:919:DC:C2'	11:AB:920:DT:H71	2.24	0.68
11:AB:1150:DC:C2'	11:AB:1151:DT:H71	2.24	0.68
11:AB:1210:DC:H2''	11:AB:1211:DT:H71	1.75	0.68
11:AB:1542:DC:C2'	11:AB:1543:DT:H71	2.24	0.68
11:AB:1579:DC:C2'	11:AB:1580:DT:H71	2.24	0.68
11:AB:2176:DC:C2'	11:AB:2177:DT:H71	2.24	0.68
11:AB:2609:DC:C2'	11:AB:2610:DT:H71	2.24	0.68
11:AB:2664:DC:C2'	11:AB:2665:DT:H71	2.24	0.68
11:AB:3500:DC:C2'	11:AB:3501:DT:H71	2.24	0.68
11:AB:3695:DC:H2''	11:AB:3696:DT:H71	1.75	0.68
11:AB:4592:DC:C2'	11:AB:4593:DT:H71	2.24	0.68
11:AB:4647:DC:C2'	11:AB:4648:DT:H71	2.24	0.68
11:AB:4733:DC:C2'	11:AB:4734:DT:H71	2.24	0.68
11:AB:4913:DC:C2'	11:AB:4914:DT:H71	2.24	0.68
11:AB:6051:DC:C2'	11:AB:6052:DT:H71	2.24	0.68
11:AB:6113:DC:C2'	11:AB:6114:DT:H71	2.24	0.68
11:AB:6371:DC:C2'	11:AB:6372:DT:H71	2.24	0.68
11:AB:6392:DC:C2'	11:AB:6393:DT:H71	2.24	0.68
11:AB:6712:DC:C2'	11:AB:6713:DT:H71	2.24	0.68
11:AB:7166:DC:C2'	11:AB:7167:DT:H71	2.24	0.68
19:B6:22:DC:C2'	19:B6:23:DT:H71	2.24	0.68
35:CC:15:DC:C2'	35:CC:16:DT:H71	2.24	0.68
37:D1:34:DC:C2'	37:D1:35:DT:H71	2.23	0.68
103:J1:7:DC:C2'	175:PD:7:DT:H71	2.24	0.68
110:J9:21:DC:C2'	110:J9:22:DT:H71	2.24	0.68
122:KA:6:DC:C2'	122:KA:7:DT:H71	2.24	0.68
172:P9:22:DC:C2'	172:P9:23:DT:H71	2.24	0.68
219:UC:6:DC:C2'	219:UC:7:DT:H71	2.24	0.68
11:AB:529:DC:H2''	11:AB:530:DT:H71	1.75	0.68
11:AB:712:DC:H2''	11:AB:713:DT:H71	1.75	0.68
11:AB:863:DC:H2''	11:AB:864:DT:H71	1.75	0.68
11:AB:932:DC:C2'	11:AB:933:DT:H71	2.24	0.68
11:AB:1147:DC:C2'	11:AB:1148:DT:H71	2.24	0.68
11:AB:1169:DT:H71	11:AB:6338:DC:H2''	1.75	0.68
11:AB:1245:DC:C2'	11:AB:1246:DT:H71	2.24	0.68
11:AB:1270:DC:C2'	11:AB:1271:DT:H71	2.24	0.68
11:AB:1396:DC:H2''	11:AB:1397:DT:H71	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1614:DC:C2'	11:AB:1615:DT:H71	2.24	0.68
11:AB:1691:DC:H2''	11:AB:1692:DT:H71	1.75	0.68
11:AB:1695:DC:C2'	11:AB:1696:DT:H71	2.23	0.68
11:AB:2147:DC:C2'	11:AB:2148:DT:H71	2.24	0.68
11:AB:2528:DT:H71	11:AB:5283:DC:C2'	2.24	0.68
11:AB:2529:DC:C2'	11:AB:2530:DT:H71	2.24	0.68
11:AB:2618:DC:H2''	11:AB:2619:DT:H71	1.75	0.68
11:AB:2658:DC:H2''	11:AB:2659:DT:H71	1.75	0.68
11:AB:2742:DC:C2'	11:AB:2743:DT:H71	2.24	0.68
11:AB:2992:DC:H2''	11:AB:2993:DT:H71	1.75	0.68
11:AB:3512:DC:H2''	11:AB:3513:DT:H71	1.75	0.68
11:AB:4007:DC:H2''	11:AB:4008:DT:H71	1.75	0.68
11:AB:4504:DC:C2'	11:AB:4505:DT:H71	2.24	0.68
11:AB:4548:DC:C2'	11:AB:4549:DT:H71	2.23	0.68
11:AB:5239:DC:C2'	11:AB:5240:DT:H71	2.24	0.68
11:AB:5376:DC:C2'	11:AB:5377:DT:H71	2.24	0.68
11:AB:5397:DC:C2'	11:AB:5398:DT:H71	2.24	0.68
11:AB:6227:DC:C2'	11:AB:6228:DT:H71	2.24	0.68
11:AB:6721:DC:C2'	11:AB:6722:DT:H71	2.24	0.68
72:G3:15:DC:H2''	72:G3:16:DT:H71	1.75	0.68
93:I2:26:DC:C2'	93:I2:27:DT:H71	2.24	0.68
109:J8:47:DC:C2'	109:J8:48:DT:H71	2.24	0.68
119:K7:33:DC:H2''	119:K7:34:DT:H71	1.75	0.68
165:OD:56:DC:C2'	165:OD:57:DT:H71	2.24	0.68
172:P9:17:DC:H2''	172:P9:18:DT:H71	1.75	0.68
187:R5:12:DC:H2''	187:R5:13:DT:H71	1.75	0.68
204:T3:26:DC:C2'	204:T3:27:DT:H71	2.24	0.68
207:T8:17:DC:H2''	207:T8:18:DT:H71	1.75	0.68
208:T9:18:DC:C2'	208:T9:19:DT:H71	2.24	0.68
208:T9:21:DC:C2'	208:T9:22:DT:H71	2.24	0.68
11:AB:312:DC:H2''	11:AB:313:DT:H71	1.75	0.68
11:AB:355:DC:H2''	11:AB:356:DT:H71	1.75	0.68
11:AB:592:DC:C2'	11:AB:593:DT:H71	2.24	0.68
11:AB:1048:DC:C2'	11:AB:1049:DT:H71	2.24	0.68
11:AB:1801:DC:C2'	11:AB:1802:DT:H71	2.24	0.68
11:AB:1849:DC:C2'	11:AB:1850:DT:H71	2.24	0.68
11:AB:2936:DC:C2'	11:AB:2937:DT:H71	2.24	0.68
11:AB:3036:DT:H71	11:AB:4991:DC:C2'	2.24	0.68
11:AB:3260:DC:C2'	11:AB:3261:DT:H71	2.24	0.68
11:AB:3320:DC:C2'	11:AB:3321:DT:H71	2.24	0.68
11:AB:3556:DC:C2'	11:AB:3557:DT:H71	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3674:DC:C2'	11:AB:3675:DT:H71	2.24	0.68
11:AB:3923:DC:C2'	11:AB:3924:DT:H71	2.24	0.68
11:AB:4360:DC:C2'	11:AB:4361:DT:H71	2.24	0.68
11:AB:4406:DC:C2'	11:AB:4407:DT:H71	2.24	0.68
11:AB:5059:DC:H2''	11:AB:5060:DT:H71	1.75	0.68
11:AB:5110:DC:C2'	11:AB:5111:DT:H71	2.24	0.68
11:AB:5155:DC:C2'	11:AB:5156:DT:H71	2.24	0.68
11:AB:5459:DC:C2'	11:AB:5460:DT:H71	2.24	0.68
11:AB:5478:DC:C2'	11:AB:5479:DT:H71	2.24	0.68
11:AB:5499:DC:C2'	11:AB:5500:DT:H71	2.24	0.68
11:AB:5589:DC:H2''	11:AB:5590:DT:H71	1.75	0.68
11:AB:5996:DC:C2'	11:AB:5997:DT:H71	2.24	0.68
11:AB:6194:DC:C2'	11:AB:6195:DT:H71	2.24	0.68
11:AB:6410:DC:H2''	11:AB:6411:DT:H71	1.75	0.68
11:AB:6466:DC:C2'	11:AB:6467:DT:H71	2.24	0.68
11:AB:6486:DC:H2''	11:AB:6487:DT:H71	1.75	0.68
11:AB:6855:DC:H2''	11:AB:6856:DT:H71	1.75	0.68
11:AB:7000:DC:H2''	11:AB:7001:DT:H71	1.75	0.68
11:AB:7161:DC:H2''	11:AB:7162:DT:H71	1.75	0.68
11:AB:7191:DC:H2''	11:AB:7192:DT:H71	1.75	0.68
11:AB:7237:DC:C2'	11:AB:7238:DT:H71	2.24	0.68
32:C8:48:DC:H2''	32:C8:49:DT:H71	1.75	0.68
43:D8:29:DC:H2''	43:D8:30:DT:H71	1.75	0.68
61:F3:4:DC:C2'	61:F3:5:DT:H71	2.24	0.68
73:G5:3:DC:H2''	73:G5:4:DT:H71	1.75	0.68
95:I5:3:DC:H2''	95:I5:4:DT:H71	1.75	0.68
106:J5:8:DC:H2''	106:J5:9:DT:H71	1.75	0.68
120:K8:1:DT:H71	146:N2:24:DC:C2'	2.23	0.68
127:L3:5:DC:C2'	127:L3:6:DT:H71	2.24	0.68
154:NC:32:DC:H2''	154:NC:33:DT:H71	1.75	0.68
156:O2:8:DC:H2''	156:O2:9:DT:H71	1.75	0.68
156:O2:12:DC:C2'	156:O2:13:DT:H71	2.24	0.68
156:O2:33:DC:C2'	156:O2:34:DT:H71	2.24	0.68
187:R5:12:DC:C2'	187:R5:13:DT:H71	2.24	0.68
188:R7:31:DC:H2''	188:R7:32:DT:H71	1.75	0.68
204:T3:15:DC:H2''	204:T3:16:DT:H71	1.75	0.68
205:T5:6:DC:C2'	205:T5:7:DT:H71	2.24	0.68
209:TA:22:DC:C2'	209:TA:23:DT:H71	2.24	0.68
215:U7:12:DC:C2'	215:U7:13:DT:H71	2.24	0.68
216:U8:21:DC:C2'	216:U8:22:DT:H71	2.24	0.68
227:VA:8:DC:C2'	227:VA:9:DT:H71	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:91:DC:H2''	11:AB:92:DT:H71	1.75	0.67
11:AB:211:DC:H2''	11:AB:212:DT:H71	1.75	0.67
11:AB:379:DC:C2'	11:AB:380:DT:H71	2.24	0.67
11:AB:469:DC:C2'	11:AB:470:DT:H71	2.24	0.67
11:AB:490:DC:C2'	11:AB:491:DT:H71	2.24	0.67
11:AB:571:DC:C2'	11:AB:572:DT:H71	2.24	0.67
11:AB:576:DC:H2''	11:AB:577:DT:H71	1.75	0.67
11:AB:904:DC:H2''	11:AB:905:DT:H71	1.75	0.67
11:AB:1093:DC:H2''	11:AB:1094:DT:H71	1.75	0.67
11:AB:1370:DC:C2'	11:AB:1371:DT:H71	2.23	0.67
11:AB:1495:DC:H2''	11:AB:1496:DT:H71	1.75	0.67
11:AB:1499:DC:C2'	11:AB:1500:DT:H71	2.24	0.67
11:AB:1586:DC:C2'	11:AB:1587:DT:H71	2.24	0.67
11:AB:1670:DC:C2'	11:AB:1671:DT:H71	2.24	0.67
11:AB:1924:DC:C2'	11:AB:1925:DT:H71	2.24	0.67
11:AB:1994:DC:H2''	11:AB:1995:DT:H71	1.75	0.67
11:AB:2332:DC:C2'	11:AB:2333:DT:H71	2.24	0.67
11:AB:2392:DC:C2'	11:AB:2393:DT:H71	2.24	0.67
11:AB:2675:DC:H2''	11:AB:2676:DT:H71	1.75	0.67
11:AB:3149:DC:H2''	11:AB:3150:DT:H71	1.75	0.67
11:AB:3344:DC:H2''	11:AB:3345:DT:H71	1.75	0.67
11:AB:3493:DC:C2'	11:AB:3494:DT:H71	2.23	0.67
11:AB:4217:DC:C2'	11:AB:4218:DT:H71	2.24	0.67
11:AB:4464:DC:C2'	11:AB:4465:DT:H71	2.24	0.67
11:AB:4502:DC:H2''	11:AB:4503:DT:H71	1.75	0.67
11:AB:4827:DC:C2'	11:AB:4828:DT:H71	2.24	0.67
11:AB:4948:DC:H2''	11:AB:4949:DT:H71	1.75	0.67
11:AB:5529:DC:C2'	11:AB:5530:DT:H71	2.24	0.67
11:AB:5696:DC:C2'	11:AB:5697:DT:H71	2.24	0.67
11:AB:5853:DC:C2'	11:AB:5854:DT:H71	2.24	0.67
11:AB:5939:DC:C2'	11:AB:5940:DT:H71	2.23	0.67
11:AB:6103:DC:H2''	11:AB:6104:DT:H71	1.75	0.67
11:AB:6131:DC:H2''	11:AB:6132:DT:H71	1.75	0.67
11:AB:6190:DC:H2''	11:AB:6191:DT:H71	1.75	0.67
11:AB:6414:DC:C2'	11:AB:6415:DT:H71	2.24	0.67
11:AB:6703:DC:C2'	11:AB:6704:DT:H71	2.24	0.67
11:AB:6835:DC:H2''	11:AB:6836:DT:H71	1.75	0.67
11:AB:6860:DC:H2''	11:AB:6861:DT:H71	1.75	0.67
11:AB:7054:DC:C2'	11:AB:7055:DT:H71	2.24	0.67
11:AB:7074:DC:H2''	11:AB:7075:DT:H71	1.75	0.67
11:AB:7229:DC:C2'	11:AB:7230:DT:H71	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BC:31:DC:C2'	24:BC:32:DT:H71	2.24	0.67
43:D8:10:DC:H2''	43:D8:11:DT:H71	1.75	0.67
44:D9:19:DC:C2'	44:D9:20:DT:H71	2.24	0.67
46:DC:21:DC:H2''	46:DC:22:DT:H71	1.75	0.67
49:E2:24:DC:H2''	49:E2:25:DT:H71	1.75	0.67
82:H2:44:DC:H2''	82:H2:45:DT:H71	1.75	0.67
84:H5:29:DC:H2''	84:H5:30:DT:H71	1.75	0.67
93:I2:46:DC:H2''	93:I2:47:DT:H71	1.75	0.67
97:I7:28:DC:H2''	97:I7:29:DT:H71	1.75	0.67
110:J9:7:DC:H2''	110:J9:8:DT:H71	1.75	0.67
114:K1:8:DC:H2''	114:K1:9:DT:H71	1.75	0.67
115:K2:21:DC:C2'	115:K2:22:DT:H71	2.24	0.67
121:K9:21:DC:H2''	121:K9:22:DT:H71	1.75	0.67
143:MA:32:DC:C2'	143:MA:33:DT:H71	2.24	0.67
149:N6:3:DC:H2''	149:N6:4:DT:H71	1.75	0.67
151:N8:7:DC:C2'	151:N8:8:DT:H71	2.24	0.67
162:O9:18:DC:C2'	162:O9:19:DT:H71	2.24	0.67
178:Q5:12:DC:C2'	178:Q5:13:DT:H71	2.24	0.67
187:R5:31:DC:C2'	187:R5:32:DT:H71	2.24	0.67
197:S7:8:DC:C2'	197:S7:9:DT:H71	2.24	0.67
212:U2:17:DC:H2''	212:U2:18:DT:H71	1.75	0.67
223:V5:11:DC:H2''	223:V5:12:DT:H71	1.75	0.67
223:V5:23:DC:H2''	223:V5:24:DT:H71	1.75	0.67
230:W3:31:DC:C2'	230:W3:32:DT:H71	2.24	0.67
11:AB:91:DC:C2'	11:AB:92:DT:H71	2.24	0.67
11:AB:295:DC:H2''	11:AB:296:DT:H71	1.75	0.67
11:AB:308:DC:C2'	11:AB:309:DT:H71	2.24	0.67
11:AB:739:DC:C2'	11:AB:740:DT:H71	2.24	0.67
11:AB:743:DC:H2''	11:AB:744:DT:H71	1.75	0.67
11:AB:844:DC:C2'	11:AB:845:DT:H71	2.24	0.67
11:AB:1065:DC:H2''	11:AB:1066:DT:H71	1.75	0.67
11:AB:1562:DC:C2'	11:AB:1563:DT:H71	2.24	0.67
11:AB:1579:DC:H2''	11:AB:1580:DT:H71	1.75	0.67
11:AB:1586:DC:H2''	11:AB:1587:DT:H71	1.75	0.67
11:AB:1598:DC:C2'	11:AB:1599:DT:H71	2.24	0.67
11:AB:1670:DC:H2''	11:AB:1671:DT:H71	1.75	0.67
11:AB:1693:DC:C2'	11:AB:1694:DT:H71	2.24	0.67
11:AB:1924:DC:H2''	11:AB:1925:DT:H71	1.75	0.67
11:AB:2015:DC:C2'	11:AB:2016:DT:H71	2.24	0.67
11:AB:2242:DC:C2'	11:AB:2243:DT:H71	2.24	0.67
11:AB:2251:DC:C2'	11:AB:2252:DT:H71	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2264:DC:H2''	11:AB:2265:DT:H71	1.75	0.67
11:AB:2353:DC:C2'	11:AB:2354:DT:H71	2.24	0.67
11:AB:2383:DC:C2'	11:AB:2384:DT:H71	2.24	0.67
11:AB:2584:DC:C2'	11:AB:2585:DT:H71	2.24	0.67
11:AB:2638:DC:H2''	11:AB:2639:DT:H71	1.75	0.67
11:AB:3498:DC:H2''	11:AB:3499:DT:H71	1.75	0.67
11:AB:3515:DC:H2''	11:AB:3516:DT:H71	1.75	0.67
11:AB:3827:DC:H2''	11:AB:3828:DT:H71	1.75	0.67
11:AB:3872:DC:H2''	11:AB:3873:DT:H71	1.75	0.67
11:AB:3902:DC:C2'	11:AB:3903:DT:H71	2.24	0.67
11:AB:3941:DC:C2'	11:AB:3942:DT:H71	2.24	0.67
11:AB:3977:DC:H2''	11:AB:3978:DT:H71	1.75	0.67
11:AB:3988:DC:C2'	11:AB:3989:DT:H71	2.24	0.67
11:AB:4159:DC:C2'	11:AB:4160:DT:H71	2.24	0.67
11:AB:4168:DC:C2'	11:AB:4169:DT:H71	2.24	0.67
11:AB:4253:DC:C2'	11:AB:4254:DT:H71	2.23	0.67
11:AB:4268:DC:C2'	11:AB:4269:DT:H71	2.24	0.67
11:AB:4362:DC:C2'	11:AB:4363:DT:H71	2.24	0.67
11:AB:4500:DC:H2''	11:AB:4501:DT:H71	1.75	0.67
11:AB:4533:DC:C2'	11:AB:4534:DT:H71	2.23	0.67
11:AB:5549:DC:H2''	11:AB:5550:DT:H71	1.75	0.67
11:AB:5631:DC:C2'	11:AB:5632:DT:H71	2.24	0.67
11:AB:5678:DC:C2'	11:AB:5679:DT:H71	2.24	0.67
11:AB:5825:DC:C2'	11:AB:5826:DT:H71	2.24	0.67
11:AB:5918:DC:C2'	11:AB:5919:DT:H71	2.24	0.67
11:AB:5963:DC:H2''	11:AB:5964:DT:H71	1.75	0.67
11:AB:6105:DC:C2'	11:AB:6106:DT:H71	2.24	0.67
11:AB:6155:DC:H2''	11:AB:6156:DT:H71	1.75	0.67
11:AB:6182:DC:H2''	11:AB:6183:DT:H71	1.75	0.67
11:AB:6253:DC:C2'	11:AB:6254:DT:H71	2.24	0.67
11:AB:6383:DC:C2'	11:AB:6384:DT:H71	2.24	0.67
11:AB:6395:DC:C2'	11:AB:6396:DT:H71	2.24	0.67
11:AB:6464:DC:H2''	11:AB:6465:DT:H71	1.75	0.67
11:AB:6703:DC:H2''	11:AB:6704:DT:H71	1.75	0.67
11:AB:6978:DC:H2''	11:AB:6979:DT:H71	1.75	0.67
11:AB:7118:DC:H2''	11:AB:7119:DT:H71	1.75	0.67
11:AB:7219:DC:H2''	11:AB:7220:DT:H71	1.75	0.67
22:B9:38:DC:C2'	22:B9:39:DT:H71	2.24	0.67
29:C5:23:DC:C2'	29:C5:24:DT:H71	2.24	0.67
37:D1:26:DC:C2'	37:D1:27:DT:H71	2.24	0.67
37:D1:26:DC:H2''	37:D1:27:DT:H71	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:D6:45:DC:C2'	41:D6:46:DT:H71	2.24	0.67
43:D8:18:DC:H2''	43:D8:19:DT:H71	1.75	0.67
58:ED:17:DC:H2''	58:ED:18:DT:H71	1.75	0.67
62:F5:43:DC:C2'	62:F5:44:DT:H71	2.24	0.67
64:F7:7:DC:C2'	64:F7:8:DT:H71	2.24	0.67
65:F8:4:DC:C2'	65:F8:5:DT:H71	2.24	0.67
67:FA:19:DC:C2'	67:FA:20:DT:H71	2.24	0.67
82:H2:25:DC:C2'	82:H2:26:DT:H71	2.24	0.67
82:H2:32:DC:C2'	82:H2:33:DT:H71	2.24	0.67
105:J3:16:DC:H2''	105:J3:17:DT:H71	1.75	0.67
117:K5:10:DC:H2''	117:K5:11:DT:H71	1.75	0.67
119:K7:40:DC:H2''	119:K7:41:DT:H71	1.75	0.67
170:P7:7:DC:H2''	170:P7:8:DT:H71	1.75	0.67
186:R3:15:DC:C2'	186:R3:16:DT:H71	2.24	0.67
198:S8:6:DC:C2'	198:S8:7:DT:H71	2.24	0.67
206:T7:13:DC:C2'	206:T7:14:DT:H71	2.24	0.67
215:U7:19:DC:C2'	215:U7:20:DT:H71	2.24	0.67
220:UD:10:DC:H2''	220:UD:11:DT:H71	1.75	0.67
223:V5:11:DC:C2'	223:V5:12:DT:H71	2.24	0.67
224:V7:6:DC:C2'	224:V7:7:DT:H71	2.24	0.67
231:W5:14:DC:H2''	231:W5:15:DT:H71	1.75	0.67
7:A7:37:DC:C2'	7:A7:38:DT:H71	2.24	0.67
11:AB:308:DC:H2''	11:AB:309:DT:H71	1.75	0.67
11:AB:694:DC:C2'	11:AB:695:DT:H71	2.24	0.67
11:AB:853:DC:C2'	11:AB:854:DT:H71	2.24	0.67
11:AB:865:DC:H2''	11:AB:866:DT:H71	1.75	0.67
11:AB:902:DC:H2''	11:AB:903:DT:H71	1.75	0.67
11:AB:1012:DC:C2'	11:AB:1013:DT:H71	2.24	0.67
11:AB:1150:DC:H2''	11:AB:1151:DT:H71	1.75	0.67
11:AB:1511:DC:C2'	11:AB:1512:DT:H71	2.24	0.67
11:AB:1574:DC:C2'	11:AB:1575:DT:H71	2.24	0.67
11:AB:1707:DC:H2''	11:AB:1708:DT:H71	1.75	0.67
11:AB:1771:DC:C2'	11:AB:1772:DT:H71	2.24	0.67
11:AB:1915:DC:C2'	11:AB:1916:DT:H71	2.24	0.67
11:AB:1932:DC:C2'	11:AB:1933:DT:H71	2.24	0.67
11:AB:1968:DC:C2'	11:AB:1969:DT:H71	2.24	0.67
11:AB:2100:DC:C2'	11:AB:2101:DT:H71	2.24	0.67
11:AB:2152:DC:C2'	11:AB:2153:DT:H71	2.24	0.67
11:AB:2211:DC:C2'	11:AB:2212:DT:H71	2.24	0.67
11:AB:2230:DC:C2'	11:AB:2231:DT:H71	2.24	0.67
11:AB:2251:DC:H2''	11:AB:2252:DT:H71	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2260:DC:H2''	11:AB:2261:DT:H71	1.75	0.67
11:AB:2392:DC:H2''	11:AB:2393:DT:H71	1.75	0.67
11:AB:2521:DC:H2''	11:AB:2522:DT:H71	1.75	0.67
11:AB:2846:DC:H2''	11:AB:2847:DT:H71	1.75	0.67
11:AB:3003:DC:C2'	11:AB:3004:DT:H71	2.24	0.67
11:AB:3340:DC:H2''	11:AB:3341:DT:H71	1.75	0.67
11:AB:3616:DC:C2'	11:AB:3617:DT:H71	2.24	0.67
11:AB:3641:DC:H2''	11:AB:3642:DT:H71	1.75	0.67
11:AB:3695:DC:C2'	11:AB:3696:DT:H71	2.24	0.67
11:AB:3919:DC:H2''	11:AB:3920:DT:H71	1.75	0.67
11:AB:3938:DC:C2'	11:AB:3939:DT:H71	2.24	0.67
11:AB:4155:DC:H2''	11:AB:4156:DT:H71	1.75	0.67
11:AB:4189:DC:C2'	11:AB:4190:DT:H71	2.24	0.67
11:AB:4712:DC:H2''	11:AB:4713:DT:H71	1.75	0.67
11:AB:4922:DC:C2'	11:AB:4923:DT:H71	2.24	0.67
11:AB:5063:DC:H2''	11:AB:5064:DT:H71	1.75	0.67
11:AB:5243:DC:H2''	11:AB:5244:DT:H71	1.75	0.67
11:AB:5380:DC:C2'	11:AB:5381:DT:H71	2.24	0.67
11:AB:5476:DC:H2''	11:AB:5477:DT:H71	1.75	0.67
11:AB:5759:DC:H2''	11:AB:5760:DT:H71	1.75	0.67
11:AB:5828:DC:H2''	11:AB:5829:DT:H71	1.75	0.67
11:AB:6025:DC:C2'	11:AB:6026:DT:H71	2.24	0.67
11:AB:6077:DC:H2''	11:AB:6078:DT:H71	1.75	0.67
11:AB:6139:DC:H2''	11:AB:6140:DT:H71	1.75	0.67
11:AB:6289:DC:H2''	11:AB:6290:DT:H71	1.75	0.67
11:AB:6383:DC:H2''	11:AB:6384:DT:H71	1.75	0.67
11:AB:6909:DC:H2''	11:AB:6910:DT:H71	1.75	0.67
18:B5:17:DC:H2''	18:B5:18:DT:H71	1.75	0.67
34:CA:15:DC:H2''	34:CA:16:DT:H71	1.75	0.67
44:D9:10:DC:H2''	44:D9:11:DT:H71	1.75	0.67
67:FA:19:DC:H2''	67:FA:20:DT:H71	1.75	0.67
72:G3:2:DC:C2'	72:G3:3:DT:H71	2.24	0.67
84:H5:36:DC:C2'	84:H5:37:DT:H71	2.24	0.67
93:I2:43:DC:H2''	93:I2:44:DT:H71	1.76	0.67
112:JC:13:DC:H2''	112:JC:14:DT:H71	1.75	0.67
138:M5:37:DC:C2'	138:M5:38:DT:H71	2.24	0.67
141:M8:19:DC:C2'	141:M8:20:DT:H71	2.24	0.67
143:MA:15:DC:C2'	143:MA:16:DT:H71	2.24	0.67
158:O5:51:DC:H2''	158:O5:52:DT:H71	1.75	0.67
171:P8:12:DC:C2'	171:P8:13:DT:H71	2.24	0.67
172:P9:26:DC:H2''	172:P9:27:DT:H71	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
183:QC:5:DC:C2'	183:QC:6:DT:H71	2.24	0.67
192:RC:21:DC:H2''	192:RC:22:DT:H71	1.76	0.67
197:S7:13:DC:C2'	197:S7:14:DT:H71	2.24	0.67
203:T2:5:DC:C2'	203:T2:6:DT:H71	2.24	0.67
208:T9:9:DC:C2'	208:T9:10:DT:H71	2.24	0.67
233:W8:19:DC:C2'	233:W8:20:DT:H71	2.24	0.67
234:W9:10:DC:C2'	234:W9:11:DT:H71	2.24	0.67
11:AB:115:DC:H2''	11:AB:116:DT:H71	1.75	0.67
11:AB:299:DC:C2'	11:AB:300:DT:H71	2.24	0.67
11:AB:448:DC:C2'	11:AB:449:DT:H71	2.24	0.67
11:AB:1041:DC:H2''	11:AB:1042:DT:H71	1.75	0.67
11:AB:1054:DC:C2'	11:AB:1055:DT:H71	2.24	0.67
11:AB:1166:DC:C2'	11:AB:1167:DT:H71	2.24	0.67
11:AB:1249:DC:C2'	11:AB:1250:DT:H71	2.24	0.67
11:AB:1306:DC:C2'	11:AB:1307:DT:H71	2.24	0.67
11:AB:2015:DC:H2''	11:AB:2016:DT:H71	1.75	0.67
11:AB:2059:DC:C2'	11:AB:2060:DT:H71	2.24	0.67
11:AB:2253:DC:C2'	11:AB:2254:DT:H71	2.24	0.67
11:AB:2317:DC:H2''	11:AB:2318:DT:H71	1.75	0.67
11:AB:3301:DC:H2''	11:AB:3302:DT:H71	1.75	0.67
11:AB:3452:DC:H2''	11:AB:3453:DT:H71	1.75	0.67
11:AB:3645:DC:H2''	11:AB:3646:DT:H71	1.75	0.67
11:AB:3686:DC:C2'	11:AB:3687:DT:H71	2.24	0.67
11:AB:4149:DC:C2'	11:AB:4150:DT:H71	2.24	0.67
11:AB:4168:DC:H2''	11:AB:4169:DT:H71	1.75	0.67
11:AB:4189:DC:H2''	11:AB:4190:DT:H71	1.75	0.67
11:AB:4569:DC:C2'	11:AB:4570:DT:H71	2.24	0.67
11:AB:5606:DC:H2''	11:AB:5607:DT:H71	1.75	0.67
11:AB:5631:DC:H2''	11:AB:5632:DT:H71	1.75	0.67
11:AB:5825:DC:H2''	11:AB:5826:DT:H71	1.75	0.67
11:AB:6231:DC:H2''	11:AB:6232:DT:H71	1.75	0.67
11:AB:6547:DC:C2'	11:AB:6548:DT:H71	2.24	0.67
11:AB:6706:DC:H2''	11:AB:6707:DT:H71	1.75	0.67
11:AB:7045:DC:C2'	11:AB:7046:DT:H71	2.24	0.67
41:D6:36:DC:H2''	41:D6:37:DT:H71	1.75	0.67
43:D8:27:DC:H2''	43:D8:28:DT:H71	1.75	0.67
46:DC:9:DC:C2'	46:DC:10:DT:H71	2.24	0.67
52:E6:24:DC:C2'	52:E6:25:DT:H71	2.24	0.67
62:F5:43:DC:H2''	62:F5:44:DT:H71	1.75	0.67
82:H2:25:DC:H2''	82:H2:26:DT:H71	1.75	0.67
98:I8:26:DC:H2''	98:I8:27:DT:H71	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
106:J5:15:DT:H71	196:S5:21:DC:C2'	2.24	0.67
122:KA:42:DC:C2'	122:KA:43:DT:H71	2.24	0.67
127:L3:17:DC:H2''	127:L3:18:DT:H71	1.75	0.67
166:P2:33:DC:C2'	166:P2:34:DT:H71	2.24	0.67
202:SD:12:DC:H2''	202:SD:13:DT:H71	1.75	0.67
206:T7:3:DC:C2'	206:T7:4:DT:H71	2.24	0.67
11:AB:782:DC:H2''	11:AB:783:DT:H71	1.75	0.67
11:AB:1630:DC:C2'	11:AB:1631:DT:H71	2.24	0.67
11:AB:1884:DC:C2'	11:AB:1885:DT:H71	2.24	0.67
11:AB:2230:DC:H2''	11:AB:2231:DT:H71	1.75	0.67
11:AB:2645:DC:C2'	11:AB:2646:DT:H71	2.24	0.67
11:AB:2692:DC:H2''	11:AB:2693:DT:H71	1.75	0.67
11:AB:3191:DC:H2''	11:AB:3192:DT:H71	1.76	0.67
11:AB:4373:DC:C2'	11:AB:4374:DT:H71	2.24	0.67
11:AB:4401:DC:C2'	11:AB:4402:DT:H71	2.24	0.67
11:AB:4548:DC:H2''	11:AB:4549:DT:H71	1.75	0.67
11:AB:4694:DC:H2''	11:AB:4695:DT:H71	1.75	0.67
11:AB:5585:DC:H2''	11:AB:5586:DT:H71	1.75	0.67
11:AB:6350:DC:H2''	11:AB:6351:DT:H71	1.75	0.67
11:AB:6503:DC:H2''	11:AB:6504:DT:H71	1.75	0.67
11:AB:6538:DC:H2''	11:AB:6539:DT:H71	1.75	0.67
11:AB:7139:DC:H2''	11:AB:7140:DT:H71	1.75	0.67
73:G5:3:DC:C2'	73:G5:4:DT:H71	2.24	0.67
90:HC:5:DC:C2'	90:HC:6:DT:H71	2.24	0.67
104:J2:30:DC:C2'	104:J2:31:DT:H71	2.24	0.67
169:P6:20:DC:C2'	169:P6:21:DT:H71	2.24	0.67
171:P8:7:DC:H2''	171:P8:8:DT:H71	1.76	0.67
178:Q5:22:DC:H2''	178:Q5:23:DT:H71	1.75	0.67
210:TC:6:DC:H2''	210:TC:7:DT:H71	1.75	0.67
11:AB:355:DC:C2'	11:AB:356:DT:H71	2.24	0.67
11:AB:463:DC:C2'	11:AB:464:DT:H71	2.24	0.67
11:AB:505:DC:C2'	11:AB:506:DT:H71	2.24	0.67
11:AB:709:DC:H2''	11:AB:710:DT:H71	1.75	0.67
11:AB:709:DC:C2'	11:AB:710:DT:H71	2.24	0.67
11:AB:1081:DC:C2'	11:AB:1082:DT:H71	2.24	0.67
11:AB:1285:DC:C2'	11:AB:1286:DT:H71	2.24	0.67
11:AB:2638:DC:C2'	11:AB:2639:DT:H71	2.24	0.67
11:AB:3113:DC:C2'	11:AB:3114:DT:H71	2.24	0.67
11:AB:3149:DC:C2'	11:AB:3150:DT:H71	2.24	0.67
11:AB:4360:DC:H2''	11:AB:4361:DT:H71	1.75	0.67
11:AB:4502:DC:C2'	11:AB:4503:DT:H71	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4712:DC:C2'	11:AB:4713:DT:H71	2.24	0.67
11:AB:5059:DC:C2'	11:AB:5060:DT:H71	2.24	0.67
11:AB:5104:DC:C2'	11:AB:5105:DT:H71	2.24	0.67
11:AB:5212:DC:H2''	11:AB:5213:DT:H71	1.75	0.67
11:AB:5243:DC:C2'	11:AB:5244:DT:H71	2.24	0.67
11:AB:5549:DC:C2'	11:AB:5550:DT:H71	2.24	0.67
11:AB:5963:DC:C2'	11:AB:5964:DT:H71	2.24	0.67
11:AB:6139:DC:C2'	11:AB:6140:DT:H71	2.24	0.67
11:AB:6464:DC:C2'	11:AB:6465:DT:H71	2.24	0.67
27:C2:12:DC:C2'	27:C2:13:DT:H71	2.24	0.67
32:C8:48:DC:C2'	32:C8:49:DT:H71	2.24	0.67
43:D8:10:DC:C2'	43:D8:11:DT:H71	2.24	0.67
61:F3:4:DC:H2''	61:F3:5:DT:H71	1.75	0.67
74:G6:36:DC:C2'	74:G6:37:DT:H71	2.24	0.67
82:H2:44:DC:C2'	82:H2:45:DT:H71	2.24	0.67
83:H3:8:DT:H71	181:Q9:39:DC:C2'	2.24	0.67
84:H5:29:DC:C2'	84:H5:30:DT:H71	2.24	0.67
95:I5:3:DC:C2'	95:I5:4:DT:H71	2.24	0.67
117:K5:10:DC:C2'	117:K5:11:DT:H71	2.24	0.67
148:N5:24:DC:H2''	148:N5:25:DT:H71	1.75	0.67
158:O5:51:DC:C2'	158:O5:52:DT:H71	2.24	0.67
202:SD:12:DC:C2'	202:SD:13:DT:H71	2.24	0.67
220:UD:22:DC:C2'	220:UD:23:DT:H71	2.24	0.67
11:AB:211:DC:C2'	11:AB:212:DT:H71	2.24	0.67
11:AB:463:DC:H2''	11:AB:464:DT:H71	1.75	0.67
11:AB:505:DC:H2''	11:AB:506:DT:H71	1.75	0.67
11:AB:865:DC:C2'	11:AB:866:DT:H71	2.24	0.67
11:AB:904:DC:C2'	11:AB:905:DT:H71	2.24	0.67
11:AB:1081:DC:H2''	11:AB:1082:DT:H71	1.75	0.67
11:AB:1285:DC:H2''	11:AB:1286:DT:H71	1.75	0.67
11:AB:1536:DC:H2''	11:AB:1537:DT:H71	1.75	0.67
11:AB:2521:DC:C2'	11:AB:2522:DT:H71	2.24	0.67
11:AB:2764:DC:H2''	11:AB:2765:DT:H71	1.75	0.67
11:AB:3254:DC:C2'	11:AB:3255:DT:H71	2.24	0.67
11:AB:3556:DC:H2''	11:AB:3557:DT:H71	1.75	0.67
11:AB:3641:DC:C2'	11:AB:3642:DT:H71	2.24	0.67
11:AB:3872:DC:C2'	11:AB:3873:DT:H71	2.24	0.67
11:AB:3977:DC:C2'	11:AB:3978:DT:H71	2.24	0.67
11:AB:4155:DC:C2'	11:AB:4156:DT:H71	2.24	0.67
11:AB:4464:DC:H2''	11:AB:4465:DT:H71	1.75	0.67
11:AB:4694:DC:C2'	11:AB:4695:DT:H71	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5459:DC:H2''	11:AB:5460:DT:H71	1.75	0.67
11:AB:5476:DC:C2'	11:AB:5477:DT:H71	2.24	0.67
11:AB:5529:DC:H2''	11:AB:5530:DT:H71	1.75	0.67
11:AB:5696:DC:H2''	11:AB:5697:DT:H71	1.75	0.67
11:AB:5757:DC:C2'	11:AB:5758:DT:H71	2.24	0.67
11:AB:6077:DC:C2'	11:AB:6078:DT:H71	2.24	0.67
11:AB:6744:DC:H2''	11:AB:6745:DT:H71	1.75	0.67
11:AB:6835:DC:C2'	11:AB:6836:DT:H71	2.24	0.67
11:AB:7074:DC:C2'	11:AB:7075:DT:H71	2.24	0.67
17:B4:20:DC:H2''	17:B4:21:DT:H71	1.75	0.67
24:BC:31:DC:H2''	24:BC:32:DT:H71	1.75	0.67
24:BC:41:DC:H2''	57:EC:8:DT:H71	1.75	0.67
43:D8:27:DC:C2'	43:D8:28:DT:H71	2.24	0.67
51:E5:12:DC:C2'	51:E5:13:DT:H71	2.24	0.67
71:G2:6:DC:H2''	71:G2:7:DT:H71	1.75	0.67
98:I8:26:DC:C2'	98:I8:27:DT:H71	2.24	0.67
104:J2:27:DC:C2'	104:J2:28:DT:H71	2.24	0.67
105:J3:16:DC:C2'	105:J3:17:DT:H71	2.24	0.67
112:JC:13:DC:C2'	112:JC:14:DT:H71	2.24	0.67
138:M5:30:DC:H2''	138:M5:31:DT:H71	1.75	0.67
172:P9:26:DC:C2'	172:P9:27:DT:H71	2.24	0.67
186:R3:14:DT:H71	204:T3:7:DC:H2''	1.75	0.67
198:S8:37:DC:C2'	198:S8:38:DT:H71	2.24	0.67
209:TA:22:DC:H2''	209:TA:23:DT:H71	1.75	0.67
216:U8:21:DC:H2''	216:U8:22:DT:H71	1.75	0.67
220:UD:22:DC:H2''	220:UD:23:DT:H71	1.75	0.67
223:V5:23:DC:C2'	223:V5:24:DT:H71	2.24	0.67
227:VA:8:DC:H2''	227:VA:9:DT:H71	1.75	0.67
11:AB:295:DC:C2'	11:AB:296:DT:H71	2.24	0.67
11:AB:576:DC:C2'	11:AB:577:DT:H71	2.24	0.67
11:AB:1128:DC:H2''	11:AB:1129:DT:H71	1.75	0.67
11:AB:1707:DC:C2'	11:AB:1708:DT:H71	2.24	0.67
11:AB:1849:DC:H2''	11:AB:1850:DT:H71	1.75	0.67
11:AB:1951:DC:H2''	11:AB:1952:DT:H71	1.75	0.67
11:AB:2846:DC:C2'	11:AB:2847:DT:H71	2.24	0.67
11:AB:3113:DC:H2''	11:AB:3114:DT:H71	1.75	0.67
11:AB:3254:DC:H2''	11:AB:3255:DT:H71	1.75	0.67
11:AB:3425:DC:H2''	11:AB:3426:DT:H71	1.75	0.67
11:AB:3665:DC:C2'	11:AB:3666:DT:H71	2.24	0.67
11:AB:3830:DC:H2''	11:AB:3831:DT:H71	1.75	0.67
11:AB:5757:DC:H2''	11:AB:5758:DT:H71	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6231:DC:C2'	11:AB:6232:DT:H71	2.24	0.67
11:AB:6350:DC:C2'	11:AB:6351:DT:H71	2.24	0.67
11:AB:6359:DC:H2''	11:AB:6360:DT:H71	1.75	0.67
18:B5:17:DC:C2'	18:B5:18:DT:H71	2.24	0.67
27:C2:12:DC:H2''	27:C2:13:DT:H71	1.75	0.67
44:D9:10:DC:C2'	44:D9:11:DT:H71	2.24	0.67
74:G6:22:DC:C2'	74:G6:23:DT:H71	2.24	0.67
74:G6:36:DC:H2''	74:G6:37:DT:H71	1.75	0.67
77:G9:6:DT:H71	156:O2:56:DC:H2''	1.75	0.67
151:N8:7:DC:H2''	151:N8:8:DT:H71	1.75	0.67
152:N9:19:DC:H2''	152:N9:20:DT:H71	1.75	0.67
159:O6:16:DC:H2''	159:O6:17:DT:H71	1.75	0.67
198:S8:37:DC:H2''	198:S8:38:DT:H71	1.75	0.67
205:T5:18:DC:H2''	205:T5:19:DT:H71	1.75	0.67
224:V7:6:DC:H2''	224:V7:7:DT:H71	1.75	0.67
11:AB:191:DC:H2''	11:AB:192:DT:H71	1.75	0.67
11:AB:1485:DC:H2''	11:AB:1486:DT:H71	1.75	0.67
11:AB:1972:DC:H2''	11:AB:1973:DT:H71	1.75	0.67
11:AB:3191:DC:C2'	11:AB:3192:DT:H71	2.24	0.67
11:AB:5104:DC:H2''	11:AB:5105:DT:H71	1.75	0.67
11:AB:6253:DC:H2''	11:AB:6254:DT:H71	1.75	0.67
11:AB:6827:DC:H2''	11:AB:6828:DT:H71	1.75	0.67
11:AB:6903:DC:H2''	11:AB:6904:DT:H71	1.75	0.67
11:AB:7054:DC:H2''	11:AB:7055:DT:H71	1.75	0.67
11:AB:7229:DC:H2''	11:AB:7230:DT:H71	1.75	0.67
37:D1:37:DC:H2''	37:D1:38:DT:H71	1.75	0.67
74:G6:22:DC:H2''	74:G6:23:DT:H71	1.76	0.67
100:IA:11:DC:H2''	100:IA:12:DT:H71	1.75	0.67
104:J2:27:DC:H2''	104:J2:28:DT:H71	1.75	0.67
127:L3:17:DC:C2'	127:L3:18:DT:H71	2.24	0.67
205:T5:6:DC:H2''	205:T5:7:DT:H71	1.75	0.67
209:TA:34:DC:H2''	209:TA:35:DT:H71	1.75	0.67
11:AB:565:DC:H2''	11:AB:566:DT:H71	1.75	0.67
11:AB:586:DC:H2''	11:AB:587:DT:H71	1.75	0.67
11:AB:649:DC:H2''	11:AB:650:DT:H71	1.75	0.67
11:AB:739:DC:H2''	11:AB:740:DT:H71	1.76	0.67
11:AB:2275:DC:H2''	11:AB:2276:DT:H71	1.75	0.67
11:AB:3665:DC:H2''	11:AB:3666:DT:H71	1.76	0.67
11:AB:5469:DC:H2''	11:AB:5470:DT:H71	1.75	0.67
11:AB:5795:DC:H2''	11:AB:5796:DT:H71	1.75	0.67
11:AB:6862:DC:H2''	11:AB:6863:DT:H71	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:D6:6:DC:H2"	41:D6:7:DT:H71	1.75	0.67
51:E5:12:DC:H2"	51:E5:13:DT:H71	1.76	0.67
102:ID:13:DC:H2"	102:ID:14:DT:H71	1.75	0.67
104:J2:37:DC:H2"	104:J2:38:DT:H71	1.75	0.67
126:L2:8:DC:H2"	126:L2:9:DT:H71	1.75	0.67
180:Q8:22:DC:H2"	180:Q8:23:DT:H71	1.75	0.67
11:AB:200:DC:H2"	11:AB:201:DT:H71	1.75	0.66
11:AB:826:DC:H2"	11:AB:827:DT:H71	1.75	0.66
11:AB:1556:DC:H2"	11:AB:1557:DT:H71	1.75	0.66
11:AB:1675:DC:H2"	11:AB:1676:DT:H71	1.75	0.66
11:AB:3270:DC:H2"	11:AB:3271:DT:H71	1.75	0.66
11:AB:3793:DC:H2"	11:AB:3794:DT:H71	1.75	0.66
11:AB:3991:DC:H2"	11:AB:3992:DT:H71	1.75	0.66
11:AB:4066:DC:H2"	11:AB:4067:DT:H71	1.75	0.66
11:AB:4494:DC:H2"	11:AB:4495:DT:H71	1.75	0.66
11:AB:4726:DC:H2"	11:AB:4727:DT:H71	1.75	0.66
11:AB:6408:DC:H2"	11:AB:6409:DT:H71	1.75	0.66
11:AB:6756:DC:H2"	11:AB:6757:DT:H71	1.75	0.66
11:AB:6792:DC:H2"	11:AB:6793:DT:H71	1.75	0.66
11:AB:7013:DC:H2"	11:AB:7014:DT:H71	1.75	0.66
22:B9:43:DC:H2"	22:B9:44:DT:H71	1.75	0.66
136:M2:1:DC:H2"	136:M2:2:DT:H71	1.75	0.66
161:O8:17:DC:H2"	161:O8:18:DT:H71	1.75	0.66
11:AB:263:DC:H2"	11:AB:264:DT:H71	1.75	0.66
11:AB:670:DC:H2"	11:AB:671:DT:H71	1.75	0.66
11:AB:1624:DC:H2"	11:AB:1625:DT:H71	1.75	0.66
11:AB:2136:DC:H2"	11:AB:2137:DT:H71	1.75	0.66
11:AB:2650:DC:H2"	11:AB:2651:DT:H71	1.75	0.66
11:AB:3159:DC:H2"	11:AB:3160:DT:H71	1.75	0.66
11:AB:3647:DC:H2"	11:AB:3648:DT:H71	1.75	0.66
11:AB:3968:DC:H2"	11:AB:3969:DT:H71	1.75	0.66
11:AB:4164:DC:H2"	11:AB:4165:DT:H71	1.75	0.66
11:AB:4395:DC:H2"	11:AB:4396:DT:H71	1.75	0.66
11:AB:4855:DC:H2"	11:AB:4856:DT:H71	1.75	0.66
11:AB:5663:DC:H2"	11:AB:5664:DT:H71	1.76	0.66
11:AB:5773:DC:H2"	11:AB:5774:DT:H71	1.75	0.66
122:KA:8:DC:H2"	122:KA:9:DT:H71	1.75	0.66
128:L5:6:DC:H2"	128:L5:7:DT:H71	1.75	0.66
164:OC:17:DC:H2"	164:OC:18:DT:H71	1.75	0.66
11:AB:469:DC:H2"	11:AB:470:DT:H71	1.75	0.66
11:AB:500:DC:H2"	11:AB:501:DT:H71	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1786:DC:H2''	11:AB:1787:DT:H71	1.75	0.66
11:AB:2936:DC:H2''	11:AB:2937:DT:H71	1.75	0.66
11:AB:6051:DC:H2''	11:AB:6052:DT:H71	1.75	0.66
11:AB:6466:DC:H2''	11:AB:6467:DT:H71	1.75	0.66
19:B6:22:DC:H2''	19:B6:23:DT:H71	1.75	0.66
27:C2:7:DC:H2''	27:C2:8:DT:H71	1.75	0.66
32:C8:44:DC:H2''	32:C8:45:DT:H71	1.75	0.66
83:H3:6:DC:H2''	83:H3:7:DT:H71	1.75	0.66
93:I2:26:DC:H2''	93:I2:27:DT:H71	1.75	0.66
147:N3:13:DC:H2''	147:N3:14:DT:H71	1.75	0.66
11:AB:490:DC:H2''	11:AB:491:DT:H71	1.75	0.66
11:AB:1270:DC:H2''	11:AB:1271:DT:H71	1.75	0.66
11:AB:3260:DC:H2''	11:AB:3261:DT:H71	1.75	0.66
208:T9:18:DC:H2''	208:T9:19:DT:H71	1.75	0.66
11:AB:1614:DC:H2''	11:AB:1615:DT:H71	1.75	0.66
11:AB:2147:DC:H2''	11:AB:2148:DT:H71	1.75	0.66
11:AB:2528:DT:H71	11:AB:5283:DC:H2''	1.75	0.66
11:AB:2742:DC:H2''	11:AB:2743:DT:H71	1.76	0.66
11:AB:3036:DT:H71	11:AB:4991:DC:H2''	1.75	0.66
11:AB:4217:DC:H2''	11:AB:4218:DT:H71	1.75	0.66
11:AB:5110:DC:H2''	11:AB:5111:DT:H71	1.75	0.66
109:J8:47:DC:H2''	109:J8:48:DT:H71	1.75	0.66
115:K2:21:DC:H2''	115:K2:22:DT:H71	1.75	0.66
156:O2:33:DC:H2''	156:O2:34:DT:H71	1.75	0.66
162:O9:18:DC:H2''	162:O9:19:DT:H71	1.75	0.66
197:S7:8:DC:H2''	197:S7:9:DT:H71	1.75	0.66
204:T3:26:DC:H2''	204:T3:27:DT:H71	1.75	0.66
11:AB:3923:DC:H2''	11:AB:3924:DT:H71	1.75	0.66
11:AB:4504:DC:H2''	11:AB:4505:DT:H71	1.75	0.66
11:AB:5478:DC:H2''	11:AB:5479:DT:H71	1.75	0.66
11:AB:5499:DC:H2''	11:AB:5500:DT:H71	1.75	0.66
127:L3:5:DC:H2''	127:L3:6:DT:H71	1.75	0.66
11:AB:4406:DC:H2''	11:AB:4407:DT:H71	1.75	0.66
11:AB:5853:DC:H2''	11:AB:5854:DT:H71	1.76	0.66
11:AB:6194:DC:H2''	11:AB:6195:DT:H71	1.75	0.66
5:A5:1:DT:H71	138:M5:42:DA:C2'	2.26	0.65
11:AB:2068:DA:C2'	11:AB:2069:DT:H71	2.27	0.65
11:AB:3710:DA:C2'	11:AB:3711:DT:H71	2.27	0.65
49:E2:8:DA:C2'	49:E2:9:DT:H71	2.27	0.65
53:E7:14:DA:C2'	53:E7:15:DT:H71	2.27	0.65
130:L7:27:DA:C2'	130:L7:28:DT:H71	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
160:O7:18:DA:C2'	160:O7:19:DT:H71	2.27	0.65
206:T7:44:DA:C2'	206:T7:45:DT:H71	2.27	0.65
11:AB:1837:DA:C2'	11:AB:1838:DT:H71	2.27	0.65
11:AB:1958:DA:C2'	11:AB:1959:DT:H71	2.26	0.65
11:AB:3850:DA:C2'	11:AB:3851:DT:H71	2.27	0.65
11:AB:5816:DA:C2'	11:AB:5817:DT:H71	2.27	0.65
11:AB:5921:DA:C2'	11:AB:5922:DT:H71	2.27	0.65
11:AB:7042:DA:C2'	11:AB:7043:DT:H71	2.27	0.65
25:BD:22:DA:C2'	25:BD:23:DT:H71	2.27	0.65
44:D9:21:DA:C2'	209:TA:40:DT:H71	2.27	0.65
105:J3:5:DA:C2'	105:J3:6:DT:H71	2.27	0.65
161:O8:3:DA:C2'	161:O8:4:DT:H71	2.27	0.65
178:Q5:34:DA:C2'	178:Q5:35:DT:H71	2.27	0.65
183:QC:8:DA:C2'	183:QC:9:DT:H71	2.27	0.65
233:W8:22:DA:C2'	233:W8:23:DT:H71	2.27	0.65
4:A4:24:DA:C2'	67:FA:8:DT:H71	2.27	0.65
7:A7:9:DA:C2'	7:A7:10:DT:H71	2.27	0.65
11:AB:403:DA:C2'	11:AB:404:DT:H71	2.27	0.65
11:AB:3279:DA:C2'	11:AB:3280:DT:H71	2.27	0.65
11:AB:3613:DA:C2'	11:AB:3614:DT:H71	2.27	0.65
11:AB:5232:DA:C2'	11:AB:5233:DT:H71	2.27	0.65
11:AB:5726:DA:C2'	11:AB:5727:DT:H71	2.27	0.65
11:AB:6311:DA:C2'	11:AB:6312:DT:H71	2.27	0.65
84:H5:11:DA:C2'	84:H5:12:DT:H71	2.27	0.65
118:K6:5:DA:C2'	118:K6:6:DT:H71	2.27	0.65
162:O9:12:DA:C2'	162:O9:13:DT:H71	2.27	0.65
165:OD:48:DA:C2'	165:OD:49:DT:H71	2.27	0.65
170:P7:5:DA:C2'	170:P7:6:DT:H71	2.27	0.65
178:Q5:10:DA:C2'	178:Q5:11:DT:H71	2.27	0.65
11:AB:809:DA:C2'	11:AB:810:DT:H71	2.27	0.65
11:AB:1497:DA:C2'	11:AB:1498:DT:H71	2.27	0.65
11:AB:2677:DA:C2'	11:AB:2678:DT:H71	2.27	0.65
11:AB:4352:DA:C2'	11:AB:4353:DT:H71	2.27	0.65
165:OD:24:DA:C2'	165:OD:25:DT:H71	2.27	0.65
11:AB:1683:DA:C2'	11:AB:1684:DT:H71	2.27	0.65
11:AB:5873:DA:C2'	11:AB:5874:DT:H71	2.27	0.65
11:AB:6070:DA:C2'	11:AB:6071:DT:H71	2.27	0.65
11:AB:6648:DA:C2'	11:AB:6649:DT:H71	2.27	0.65
109:J8:31:DA:C2'	109:J8:32:DT:H71	2.27	0.65
132:L9:17:DA:C2'	132:L9:18:DT:H71	2.27	0.65
191:RA:16:DA:C2'	191:RA:17:DT:H71	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:12:DA:C2'	18:B5:1:DT:H71	2.27	0.65
11:AB:1156:DA:C2'	11:AB:1157:DT:H71	2.27	0.65
11:AB:2440:DA:C2'	11:AB:2441:DT:H71	2.27	0.65
11:AB:3026:DA:C2'	11:AB:3027:DT:H71	2.27	0.65
11:AB:3693:DA:C2'	11:AB:3694:DT:H71	2.27	0.65
11:AB:3714:DA:C2'	11:AB:3715:DT:H71	2.27	0.65
11:AB:4300:DA:C2'	11:AB:4301:DT:H71	2.27	0.65
11:AB:6171:DA:C2'	11:AB:6172:DT:H71	2.27	0.65
11:AB:6891:DA:C2'	11:AB:6892:DT:H71	2.27	0.65
52:E6:1:DT:H71	63:F6:13:DA:C2'	2.27	0.65
55:E9:34:DA:C2'	238:X9:32:DT:H71	2.27	0.65
75:G7:12:DT:H71	104:J2:35:DA:C2'	2.27	0.65
126:L2:30:DA:C2'	126:L2:31:DT:H71	2.27	0.65
211:TD:24:DA:C2'	211:TD:25:DT:H71	2.27	0.65
11:AB:1135:DA:C2'	11:AB:1136:DT:H71	2.27	0.65
11:AB:2180:DA:C2'	11:AB:2181:DT:H71	2.27	0.65
11:AB:2362:DA:C2'	11:AB:2363:DT:H71	2.27	0.65
11:AB:2702:DA:C2'	11:AB:2703:DT:H71	2.27	0.65
11:AB:2860:DA:C2'	11:AB:2861:DT:H71	2.27	0.65
11:AB:4432:DA:C2'	11:AB:4433:DT:H71	2.27	0.65
11:AB:5073:DA:C2'	11:AB:5074:DT:H71	2.27	0.65
11:AB:5316:DA:C2'	11:AB:5317:DT:H71	2.27	0.65
11:AB:6416:DA:C2'	11:AB:6417:DT:H71	2.27	0.65
36:CD:21:DA:C2'	36:CD:22:DT:H71	2.27	0.65
51:E5:20:DA:C2'	51:E5:21:DT:H71	2.27	0.65
69:FD:22:DT:H71	225:V8:17:DA:C2'	2.27	0.65
92:I1:19:DA:C2'	92:I1:20:DT:H71	2.27	0.65
122:KA:21:DA:C2'	145:MD:45:DT:H71	2.27	0.65
142:M9:2:DA:C2'	142:M9:3:DT:H71	2.27	0.65
157:O3:3:DA:C2'	157:O3:4:DT:H71	2.27	0.65
237:X7:21:DA:C2'	237:X7:22:DT:H71	2.27	0.65
11:AB:107:DA:C2'	11:AB:108:DT:H71	2.27	0.65
11:AB:6698:DA:C2'	11:AB:6699:DT:H71	2.27	0.65
39:D3:18:DA:C2'	103:J1:22:DT:H71	2.27	0.65
43:D8:1:DT:H71	230:W3:49:DA:C2'	2.27	0.65
11:AB:23:DA:C2'	11:AB:24:DT:H71	2.27	0.65
11:AB:2246:DA:C2'	11:AB:2247:DT:H71	2.27	0.65
11:AB:6970:DA:C2'	11:AB:6971:DT:H71	2.27	0.65
23:BA:13:DA:C2'	23:BA:14:DT:H71	2.27	0.65
52:E6:14:DA:C2'	71:G2:14:DT:H71	2.27	0.65
69:FD:21:DA:C2'	225:V8:18:DT:H71	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
125:L1:22:DT:H71	195:S3:21:DA:C2'	2.27	0.65
132:L9:7:DA:C2'	132:L9:8:DT:H71	2.27	0.65
172:P9:9:DA:C2'	172:P9:10:DT:H71	2.27	0.65
238:X9:45:DA:C2'	238:X9:46:DT:H71	2.27	0.65
11:AB:1201:DA:C2'	11:AB:1202:DT:H71	2.27	0.65
11:AB:1665:DA:C2'	11:AB:1666:DT:H71	2.27	0.65
11:AB:3402:DA:C2'	11:AB:3403:DT:H71	2.27	0.65
11:AB:4738:DA:C2'	11:AB:4739:DT:H71	2.27	0.65
11:AB:5417:DA:C2'	11:AB:5418:DT:H71	2.27	0.65
36:CD:8:DT:H71	69:FD:7:DA:C2'	2.27	0.65
50:E3:14:DA:C2'	181:Q9:33:DT:H71	2.27	0.65
54:E8:16:DA:C2'	109:J8:22:DT:H71	2.27	0.65
61:F3:14:DA:C2'	220:UD:17:DT:H71	2.27	0.65
69:FD:35:DA:C2'	69:FD:36:DT:H71	2.27	0.65
92:I1:9:DA:C2'	92:I1:10:DT:H71	2.27	0.65
200:SA:9:DA:C2'	200:SA:10:DT:H71	2.27	0.65
11:AB:286:DA:C2'	11:AB:287:DT:H71	2.27	0.64
11:AB:2903:DA:C2'	11:AB:2904:DT:H71	2.27	0.64
15:B2:17:DA:C2'	15:B2:18:DT:H71	2.27	0.64
33:C9:25:DA:C2'	33:C9:26:DT:H71	2.27	0.64
11:AB:2444:DA:C2'	11:AB:2445:DT:H71	2.27	0.64
11:AB:3193:DT:C2'	11:AB:3194:DT:H71	2.28	0.64
98:I8:19:DA:C2'	98:I8:20:DT:H71	2.27	0.64
11:AB:3479:DT:C2'	11:AB:3480:DT:H71	2.28	0.64
11:AB:4579:DA:C2'	11:AB:4580:DT:H71	2.27	0.64
11:AB:5209:DT:C2'	11:AB:5210:DT:H71	2.28	0.64
21:B8:27:DT:C2'	149:N6:1:DT:H71	2.28	0.64
11:AB:221:DT:C2'	11:AB:222:DT:H71	2.28	0.64
11:AB:382:DT:C2'	11:AB:383:DT:H71	2.28	0.64
11:AB:1371:DT:C2'	11:AB:1372:DT:H71	2.28	0.64
11:AB:1392:DT:C2'	11:AB:1393:DT:H71	2.28	0.64
11:AB:1512:DT:C2'	11:AB:1513:DT:H71	2.28	0.64
11:AB:1554:DT:C2'	11:AB:1555:DT:H71	2.28	0.64
11:AB:1575:DT:C2'	11:AB:1576:DT:H71	2.28	0.64
11:AB:1717:DT:C2'	11:AB:1718:DT:H71	2.28	0.64
11:AB:1816:DT:C2'	11:AB:1817:DT:H71	2.28	0.64
11:AB:1975:DT:C2'	11:AB:1976:DT:H71	2.28	0.64
11:AB:2430:DT:C2'	11:AB:2431:DT:H71	2.28	0.64
11:AB:2835:DT:C2'	11:AB:2836:DT:H71	2.28	0.64
11:AB:3157:DT:C2'	11:AB:3158:DT:H71	2.28	0.64
11:AB:3433:DT:C2'	11:AB:3434:DT:H71	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4150:DT:C2'	11:AB:4151:DT:H71	2.28	0.64
11:AB:4676:DT:C2'	11:AB:4677:DT:H71	2.28	0.64
11:AB:4923:DT:C2'	11:AB:4924:DT:H71	2.28	0.64
11:AB:6161:DT:C2'	11:AB:6162:DT:H71	2.28	0.64
11:AB:6184:DT:C2'	11:AB:6185:DT:H71	2.28	0.64
11:AB:6790:DT:C2'	11:AB:6791:DT:H71	2.28	0.64
11:AB:6863:DT:C2'	11:AB:6864:DT:H71	2.28	0.64
12:AC:15:DT:C2'	12:AC:16:DT:H71	2.28	0.64
18:B5:19:DT:C2'	18:B5:20:DT:H71	2.28	0.64
40:D5:15:DT:C2'	40:D5:16:DT:H71	2.28	0.64
93:I2:3:DA:C2'	93:I2:4:DT:H71	2.27	0.64
98:I8:42:DT:C2'	98:I8:43:DT:H71	2.28	0.64
103:J1:11:DT:C2'	103:J1:12:DT:H71	2.28	0.64
112:JC:20:DT:C2'	112:JC:21:DT:H71	2.28	0.64
119:K7:24:DT:C2'	119:K7:25:DT:H71	2.28	0.64
121:K9:18:DT:C2'	121:K9:19:DT:H71	2.28	0.64
148:N5:8:DT:C2'	148:N5:9:DT:H71	2.28	0.64
168:P5:12:DT:C2'	168:P5:13:DT:H71	2.28	0.64
204:T3:32:DT:C2'	204:T3:33:DT:H71	2.28	0.64
204:T3:33:DT:C2'	204:T3:34:DT:H71	2.28	0.64
212:U2:22:DT:C2'	212:U2:23:DT:H71	2.28	0.64
216:U8:22:DT:C2'	216:U8:23:DT:H71	2.28	0.64
2:A2:18:DT:H71	206:T7:45:DT:C2'	2.28	0.64
8:A8:25:DT:C2'	8:A8:26:DT:H71	2.28	0.64
11:AB:362:DT:C2'	11:AB:363:DT:H71	2.28	0.64
11:AB:446:DT:C2'	11:AB:447:DT:H71	2.28	0.64
11:AB:645:DT:C2'	11:AB:646:DT:H71	2.28	0.64
11:AB:740:DT:C2'	11:AB:741:DT:H71	2.28	0.64
11:AB:965:DT:C2'	11:AB:966:DT:H71	2.28	0.64
11:AB:1223:DT:C2'	11:AB:1224:DT:H71	2.28	0.64
11:AB:1303:DT:C2'	11:AB:1304:DT:H71	2.28	0.64
11:AB:1383:DT:C2'	11:AB:1384:DT:H71	2.28	0.64
11:AB:1539:DT:C2'	11:AB:1540:DT:H71	2.28	0.64
11:AB:1566:DT:C2'	11:AB:1567:DT:H71	2.28	0.64
11:AB:1930:DT:C2'	11:AB:1931:DT:H71	2.28	0.64
11:AB:1969:DT:C2'	11:AB:1970:DT:H71	2.28	0.64
11:AB:2020:DT:C2'	11:AB:2021:DT:H71	2.28	0.64
11:AB:2411:DT:C2'	11:AB:2412:DT:H71	2.28	0.64
11:AB:2508:DT:C2'	11:AB:2509:DT:H71	2.28	0.64
11:AB:2531:DT:C2'	11:AB:2532:DT:H71	2.28	0.64
11:AB:2814:DT:C2'	11:AB:2815:DT:H71	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2815:DT:C2'	11:AB:2816:DT:H71	2.28	0.64
11:AB:2834:DT:C2'	11:AB:2835:DT:H71	2.28	0.64
11:AB:2848:DT:C2'	11:AB:2849:DT:H71	2.28	0.64
11:AB:3014:DT:C2'	11:AB:3015:DT:H71	2.28	0.64
11:AB:3016:DT:C2'	11:AB:3017:DT:H71	2.28	0.64
11:AB:3031:DT:C2'	11:AB:3032:DT:H71	2.28	0.64
11:AB:3280:DT:C2'	11:AB:3281:DT:H71	2.28	0.64
11:AB:3434:DT:C2'	11:AB:3435:DT:H71	2.28	0.64
11:AB:3467:DT:C2'	11:AB:3468:DT:H71	2.28	0.64
11:AB:3563:DT:C2'	11:AB:3564:DT:H71	2.28	0.64
11:AB:3759:DT:C2'	11:AB:3760:DT:H71	2.28	0.64
11:AB:3828:DT:C2'	11:AB:3829:DT:H71	2.28	0.64
11:AB:3848:DT:C2'	11:AB:3849:DT:H71	2.28	0.64
11:AB:3851:DT:C2'	11:AB:3852:DT:H71	2.28	0.64
11:AB:4011:DT:C2'	11:AB:4348:DT:H71	2.28	0.64
11:AB:4151:DT:C2'	11:AB:4320:DT:H71	2.28	0.64
11:AB:4229:DT:C2'	11:AB:4230:DT:H71	2.28	0.64
11:AB:4269:DT:C2'	11:AB:4270:DT:H71	2.28	0.64
11:AB:4348:DT:C2'	11:AB:4349:DT:H71	2.28	0.64
11:AB:4424:DT:C2'	11:AB:4425:DT:H71	2.28	0.64
11:AB:4536:DT:C2'	11:AB:4537:DT:H71	2.28	0.64
11:AB:4605:DT:C2'	11:AB:4606:DT:H71	2.28	0.64
11:AB:4856:DT:C2'	11:AB:4857:DT:H71	2.28	0.64
11:AB:4872:DT:C2'	11:AB:4873:DT:H71	2.28	0.64
11:AB:4874:DT:C2'	11:AB:4875:DT:H71	2.28	0.64
11:AB:4994:DT:C2'	11:AB:4995:DT:H71	2.28	0.64
11:AB:5286:DT:C2'	11:AB:5287:DT:H71	2.28	0.64
11:AB:5443:DT:C2'	11:AB:5444:DT:H71	2.28	0.64
11:AB:5537:DT:C2'	11:AB:5538:DT:H71	2.28	0.64
11:AB:5607:DT:C2'	11:AB:5608:DT:H71	2.28	0.64
11:AB:5608:DT:C2'	11:AB:5609:DT:H71	2.28	0.64
11:AB:5808:DT:C2'	11:AB:5809:DT:H71	2.28	0.64
11:AB:5997:DT:C2'	11:AB:5998:DT:H71	2.28	0.64
11:AB:6128:DT:C2'	11:AB:6129:DT:H71	2.28	0.64
11:AB:6258:DT:C2'	11:AB:6259:DT:H71	2.28	0.64
11:AB:6418:DT:C2'	11:AB:6419:DT:H71	2.28	0.64
11:AB:6483:DT:C2'	11:AB:6484:DT:H71	2.28	0.64
11:AB:6566:DT:C2'	11:AB:6567:DT:H71	2.28	0.64
11:AB:6574:DT:C2'	11:AB:6575:DT:H71	2.28	0.64
11:AB:6657:DT:C2'	11:AB:6658:DT:H71	2.28	0.64
11:AB:6718:DT:C2'	11:AB:6719:DT:H71	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6793:DT:C2'	11:AB:6794:DT:H71	2.28	0.64
11:AB:6879:DT:C2'	11:AB:6880:DT:H71	2.28	0.64
11:AB:7034:DT:C2'	11:AB:7035:DT:H71	2.28	0.64
11:AB:7043:DT:C2'	11:AB:7044:DT:H71	2.28	0.64
11:AB:7055:DT:C2'	11:AB:7056:DT:H71	2.28	0.64
11:AB:7221:DT:C2'	11:AB:7222:DT:H71	2.28	0.64
12:AC:13:DT:C2'	12:AC:14:DT:H71	2.28	0.64
13:AD:41:DT:C2'	13:AD:42:DT:H71	2.28	0.64
16:B3:8:DT:C2'	16:B3:9:DT:H71	2.28	0.64
20:B7:14:DT:H71	97:I7:27:DT:C2'	2.28	0.64
40:D5:16:DT:C2'	231:W5:28:DT:H71	2.28	0.64
66:F9:17:DT:C2'	66:F9:18:DT:H71	2.28	0.64
79:GC:19:DT:C2'	79:GC:20:DT:H71	2.28	0.64
105:J3:18:DT:C2'	105:J3:19:DT:H71	2.28	0.64
112:JC:21:DT:C2'	112:JC:22:DT:H71	2.28	0.64
115:K2:13:DT:C2'	115:K2:14:DT:H71	2.28	0.64
117:K5:15:DT:C2'	117:K5:16:DT:H71	2.28	0.64
121:K9:17:DT:C2'	121:K9:18:DT:H71	2.28	0.64
125:L1:46:DT:C2'	125:L1:47:DT:H71	2.28	0.64
128:L5:7:DT:C2'	128:L5:8:DT:H71	2.28	0.64
130:L7:13:DT:C2'	130:L7:14:DT:H71	2.28	0.64
142:M9:13:DT:C2'	142:M9:14:DT:H71	2.28	0.64
144:MC:16:DT:C2'	144:MC:17:DT:H71	2.28	0.64
147:N3:14:DT:C2'	147:N3:15:DT:H71	2.28	0.64
148:N5:9:DT:C2'	148:N5:10:DT:H71	2.28	0.64
149:N6:22:DT:C2'	149:N6:23:DT:H71	2.28	0.64
162:O9:13:DT:C2'	191:RA:28:DT:H71	2.28	0.64
171:P8:9:DT:C2'	171:P8:10:DT:H71	2.28	0.64
178:Q5:32:DT:C2'	178:Q5:33:DT:H71	2.28	0.64
198:S8:9:DT:C2'	198:S8:10:DT:H71	2.28	0.64
198:S8:10:DT:C2'	198:S8:11:DT:H71	2.28	0.64
214:U5:23:DT:C2'	214:U5:24:DT:H71	2.28	0.64
214:U5:40:DT:C2'	214:U5:41:DT:H71	2.28	0.64
227:VA:9:DT:C2'	227:VA:10:DT:H71	2.28	0.64
231:W5:10:DT:C2'	231:W5:11:DT:H71	2.28	0.64
11:AB:177:DT:C2'	11:AB:178:DT:H71	2.28	0.64
11:AB:189:DT:C2'	11:AB:190:DT:H71	2.28	0.64
11:AB:225:DT:C2'	11:AB:226:DT:H71	2.28	0.64
11:AB:252:DT:C2'	11:AB:253:DT:H71	2.28	0.64
11:AB:603:DT:C2'	11:AB:604:DT:H71	2.28	0.64
11:AB:624:DT:C2'	11:AB:625:DT:H71	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:653:DT:C2'	11:AB:654:DT:H71	2.28	0.64
11:AB:947:DT:C2'	11:AB:948:DT:H71	2.28	0.64
11:AB:1224:DT:C2'	11:AB:1225:DT:H71	2.28	0.64
11:AB:1304:DT:C2'	11:AB:1305:DT:H71	2.28	0.64
11:AB:1313:DT:C2'	11:AB:1314:DT:H71	2.28	0.64
11:AB:1393:DT:C2'	11:AB:1394:DT:H71	2.28	0.64
11:AB:1503:DT:C2'	11:AB:1504:DT:H71	2.28	0.64
11:AB:1545:DT:C2'	11:AB:1546:DT:H71	2.28	0.64
11:AB:1569:DT:C2'	11:AB:1570:DT:H71	2.28	0.64
11:AB:1716:DT:C2'	11:AB:1717:DT:H71	2.28	0.64
11:AB:1718:DT:C2'	11:AB:1719:DT:H71	2.28	0.64
11:AB:1991:DT:C2'	11:AB:1992:DT:H71	2.28	0.64
11:AB:2086:DT:C2'	11:AB:2087:DT:H71	2.28	0.64
11:AB:2194:DT:C2'	11:AB:2195:DT:H71	2.28	0.64
11:AB:2272:DT:C2'	11:AB:5577:DT:H71	2.28	0.64
11:AB:2364:DT:C2'	11:AB:5437:DT:H71	2.28	0.64
11:AB:2442:DT:C2'	11:AB:5367:DT:H71	2.28	0.64
11:AB:2707:DT:C2'	11:AB:2708:DT:H71	2.28	0.64
11:AB:2797:DT:C2'	11:AB:2798:DT:H71	2.28	0.64
11:AB:2810:DT:C2'	11:AB:2811:DT:H71	2.28	0.64
11:AB:2831:DT:C2'	11:AB:2832:DT:H71	2.28	0.64
11:AB:3001:DT:C2'	11:AB:3002:DT:H71	2.28	0.64
11:AB:3138:DT:C2'	11:AB:3139:DT:H71	2.28	0.64
11:AB:3160:DT:C2'	11:AB:3161:DT:H71	2.28	0.64
11:AB:3331:DT:C2'	11:AB:3332:DT:H71	2.28	0.64
11:AB:3614:DT:C2'	11:AB:3615:DT:H71	2.28	0.64
11:AB:3617:DT:C2'	11:AB:3618:DT:H71	2.28	0.64
11:AB:3623:DT:C2'	11:AB:3624:DT:H71	2.28	0.64
11:AB:3758:DT:C2'	11:AB:3759:DT:H71	2.28	0.64
11:AB:3760:DT:C2'	11:AB:3761:DT:H71	2.28	0.64
11:AB:3948:DT:C2'	11:AB:3949:DT:H71	2.28	0.64
11:AB:3995:DT:C2'	11:AB:3996:DT:H71	2.28	0.64
11:AB:4349:DT:C2'	11:AB:4350:DT:H71	2.28	0.64
11:AB:4425:DT:C2'	11:AB:4426:DT:H71	2.28	0.64
11:AB:4434:DT:C2'	11:AB:4435:DT:H71	2.28	0.64
11:AB:4686:DT:C2'	11:AB:4687:DT:H71	2.28	0.64
11:AB:4727:DT:C2'	11:AB:4728:DT:H71	2.28	0.64
11:AB:4797:DT:C2'	11:AB:4798:DT:H71	2.28	0.64
11:AB:5306:DT:C2'	11:AB:5307:DT:H71	2.28	0.64
11:AB:5307:DT:C2'	11:AB:5308:DT:H71	2.28	0.64
11:AB:5318:DT:C2'	11:AB:5319:DT:H71	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5377:DT:C2'	11:AB:5378:DT:H71	2.28	0.64
11:AB:5394:DT:C2'	11:AB:5395:DT:H71	2.28	0.64
11:AB:5457:DT:C2'	11:AB:5458:DT:H71	2.28	0.64
11:AB:5466:DT:C2'	11:AB:5467:DT:H71	2.28	0.64
11:AB:5609:DT:C2'	11:AB:5610:DT:H71	2.28	0.64
11:AB:5697:DT:C2'	11:AB:5698:DT:H71	2.28	0.64
11:AB:5730:DT:C2'	11:AB:5731:DT:H71	2.28	0.64
11:AB:5778:DT:C2'	11:AB:5779:DT:H71	2.28	0.64
11:AB:5787:DT:C2'	11:AB:5788:DT:H71	2.28	0.64
11:AB:5791:DT:C2'	11:AB:5792:DT:H71	2.28	0.64
11:AB:5812:DT:C2'	11:AB:5813:DT:H71	2.28	0.64
11:AB:5998:DT:C2'	11:AB:5999:DT:H71	2.28	0.64
11:AB:6132:DT:C2'	11:AB:6133:DT:H71	2.28	0.64
11:AB:6183:DT:C2'	11:AB:6184:DT:H71	2.28	0.64
11:AB:6260:DT:C2'	11:AB:6261:DT:H71	2.28	0.64
11:AB:6312:DT:C2'	11:AB:6313:DT:H71	2.28	0.64
11:AB:6425:DT:C2'	11:AB:6426:DT:H71	2.28	0.64
11:AB:6488:DT:C2'	11:AB:6489:DT:H71	2.28	0.64
11:AB:6587:DT:C2'	11:AB:6588:DT:H71	2.28	0.64
11:AB:6599:DT:C2'	11:AB:6600:DT:H71	2.28	0.64
11:AB:6884:DT:C2'	11:AB:6885:DT:H71	2.28	0.64
11:AB:7061:DT:C2'	11:AB:7062:DT:H71	2.28	0.64
11:AB:7062:DT:C2'	11:AB:7063:DT:H71	2.28	0.64
12:AC:14:DT:C2'	12:AC:15:DT:H71	2.28	0.64
13:AD:39:DT:C2'	13:AD:40:DT:H71	2.28	0.64
22:B9:2:DT:C2'	22:B9:3:DT:H71	2.28	0.64
24:BC:32:DT:C2'	24:BC:33:DT:H71	2.28	0.64
26:C1:12:DT:H71	84:H5:12:DT:C2'	2.28	0.64
31:C7:7:DT:C2'	31:C7:8:DT:H71	2.28	0.64
32:C8:12:DT:C2'	32:C8:13:DT:H71	2.28	0.64
43:D8:44:DT:C2'	43:D8:45:DT:H71	2.28	0.64
54:E8:32:DT:C2'	54:E8:33:DT:H71	2.28	0.64
67:FA:10:DT:C2'	67:FA:11:DT:H71	2.28	0.64
72:G3:1:DT:H71	83:H3:7:DT:C2'	2.28	0.64
76:G8:16:DT:C2'	76:G8:17:DT:H71	2.28	0.64
77:G9:14:DT:C2'	77:G9:15:DT:H71	2.28	0.64
78:GA:10:DT:C2'	78:GA:11:DT:H71	2.28	0.64
82:H2:16:DT:C2'	82:H2:17:DT:H71	2.28	0.64
86:H7:9:DT:C2'	86:H7:10:DT:H71	2.28	0.64
95:I5:24:DA:C2'	95:I5:25:DT:H71	2.27	0.64
105:J3:6:DT:C2'	105:J3:7:DT:H71	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
106:J5:9:DT:C2'	106:J5:10:DT:H71	2.28	0.64
108:J7:18:DT:C2'	108:J7:19:DT:H71	2.28	0.64
118:K6:6:DT:C2'	118:K6:7:DT:H71	2.28	0.64
119:K7:37:DT:C2'	119:K7:38:DT:H71	2.28	0.64
119:K7:42:DT:C2'	119:K7:43:DT:H71	2.28	0.64
131:L8:13:DT:C2'	131:L8:14:DT:H71	2.28	0.64
135:LD:8:DT:C2'	135:LD:9:DT:H71	2.28	0.64
138:M5:38:DT:C2'	138:M5:39:DT:H71	2.28	0.64
149:N6:5:DT:C2'	149:N6:6:DT:H71	2.28	0.64
154:NC:19:DT:C2'	154:NC:20:DT:H71	2.28	0.64
161:O8:4:DT:C2'	183:QC:24:DT:H71	2.28	0.64
183:QC:26:DT:C2'	183:QC:27:DT:H71	2.28	0.64
188:R7:11:DT:C2'	188:R7:12:DT:H71	2.28	0.64
190:R9:6:DT:C2'	190:R9:7:DT:H71	2.28	0.64
190:R9:37:DT:C2'	190:R9:38:DT:H71	2.28	0.64
192:RC:29:DT:C2'	192:RC:30:DT:H71	2.28	0.64
203:T2:6:DT:C2'	203:T2:7:DT:H71	2.28	0.64
203:T2:7:DT:C2'	203:T2:8:DT:H71	2.28	0.64
212:U2:21:DT:C2'	212:U2:22:DT:H71	2.28	0.64
231:W5:11:DT:C2'	231:W5:12:DT:H71	2.28	0.64
1:A1:56:DT:C2'	1:A1:57:DT:H71	2.28	0.64
5:A5:13:DT:C2'	5:A5:14:DT:H71	2.28	0.64
11:AB:1235:DT:C2'	11:AB:1236:DT:H71	2.28	0.64
11:AB:1302:DT:C2'	11:AB:1303:DT:H71	2.28	0.64
11:AB:1372:DT:C2'	11:AB:1373:DT:H71	2.28	0.64
11:AB:1557:DT:C2'	11:AB:1558:DT:H71	2.28	0.64
11:AB:1679:DT:C2'	11:AB:1680:DT:H71	2.28	0.64
11:AB:2493:DT:C2'	11:AB:2494:DT:H71	2.28	0.64
11:AB:2527:DT:C2'	11:AB:5284:DT:H71	2.28	0.64
11:AB:2648:DT:C2'	11:AB:2649:DT:H71	2.28	0.64
11:AB:2690:DT:C2'	11:AB:2691:DT:H71	2.28	0.64
11:AB:2757:DT:C2'	11:AB:2758:DT:H71	2.28	0.64
11:AB:2824:DT:C2'	11:AB:2825:DT:H71	2.28	0.64
11:AB:2898:DT:C2'	11:AB:2899:DT:H71	2.28	0.64
11:AB:3222:DT:C2'	11:AB:3223:DT:H71	2.28	0.64
11:AB:3304:DT:C2'	11:AB:3305:DT:H71	2.28	0.64
11:AB:3341:DT:C2'	11:AB:3342:DT:H71	2.28	0.64
11:AB:3397:DT:C2'	11:AB:3398:DT:H71	2.28	0.64
11:AB:3714:DA:H2''	11:AB:3715:DT:H71	1.80	0.64
11:AB:3939:DT:C2'	11:AB:3940:DT:H71	2.28	0.64
11:AB:4363:DT:C2'	11:AB:4364:DT:H71	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5597:DT:C2'	11:AB:5598:DT:H71	2.28	0.64
11:AB:5796:DT:C2'	11:AB:5797:DT:H71	2.28	0.64
11:AB:6010:DT:C2'	11:AB:6011:DT:H71	2.28	0.64
11:AB:6322:DA:C2'	11:AB:6323:DT:H71	2.27	0.64
11:AB:6343:DT:C2'	11:AB:6344:DT:H71	2.28	0.64
11:AB:6584:DT:C2'	11:AB:6585:DT:H71	2.28	0.64
11:AB:6802:DT:C2'	11:AB:6803:DT:H71	2.28	0.64
11:AB:6956:DT:C2'	11:AB:6957:DT:H71	2.28	0.64
11:AB:7046:DT:C2'	11:AB:7047:DT:H71	2.28	0.64
11:AB:7067:DT:C2'	11:AB:7068:DT:H71	2.28	0.64
22:B9:39:DT:C2'	22:B9:40:DT:H71	2.28	0.64
29:C5:1:DT:C2'	29:C5:2:DT:H71	2.28	0.64
36:CD:17:DT:C2'	36:CD:18:DT:H71	2.28	0.64
42:D7:1:DT:H71	53:E7:15:DT:C2'	2.28	0.64
45:DA:23:DA:C2'	45:DA:24:DT:H71	2.27	0.64
53:E7:4:DA:C2'	53:E7:5:DT:H71	2.27	0.64
59:F1:20:DT:C2'	102:ID:1:DT:H71	2.28	0.64
89:HA:16:DT:C2'	89:HA:17:DT:H71	2.28	0.64
94:I3:6:DA:C2'	94:I3:7:DT:H71	2.27	0.64
105:J3:26:DT:C2'	105:J3:27:DT:H71	2.28	0.64
112:JC:19:DT:C2'	112:JC:20:DT:H71	2.28	0.64
119:K7:6:DT:C2'	119:K7:7:DT:H71	2.28	0.64
133:LA:20:DT:C2'	133:LA:21:DT:H71	2.28	0.64
159:O6:2:DT:C2'	159:O6:3:DT:H71	2.28	0.64
167:P3:12:DT:C2'	167:P3:13:DT:H71	2.28	0.64
168:P5:11:DT:C2'	168:P5:12:DT:H71	2.28	0.64
171:P8:8:DT:C2'	171:P8:9:DT:H71	2.28	0.64
178:Q5:10:DA:H2''	178:Q5:11:DT:H71	1.80	0.64
181:Q9:28:DT:C2'	181:Q9:29:DT:H71	2.28	0.64
190:R9:35:DA:C2'	190:R9:36:DT:H71	2.27	0.64
223:V5:33:DT:C2'	223:V5:34:DT:H71	2.28	0.64
230:W3:10:DA:C2'	230:W3:11:DT:H71	2.27	0.64
231:W5:30:DT:C2'	231:W5:31:DT:H71	2.28	0.64
7:A7:9:DA:H2''	7:A7:10:DT:H71	1.80	0.64
7:A7:38:DT:C2'	7:A7:39:DT:H71	2.28	0.64
8:A8:13:DT:C2'	8:A8:14:DT:H71	2.28	0.64
11:AB:144:DT:C2'	11:AB:145:DT:H71	2.28	0.64
11:AB:165:DT:C2'	11:AB:166:DT:H71	2.28	0.64
11:AB:695:DT:C2'	11:AB:696:DT:H71	2.28	0.64
11:AB:794:DT:C2'	11:AB:795:DT:H71	2.28	0.64
11:AB:809:DA:H2''	11:AB:810:DT:H71	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:975:DT:C2'	11:AB:976:DT:H71	2.28	0.64
11:AB:1158:DT:C2'	11:AB:1159:DT:H71	2.28	0.64
11:AB:1278:DT:C2'	11:AB:1279:DT:H71	2.28	0.64
11:AB:1351:DT:C2'	11:AB:1352:DT:H71	2.28	0.64
11:AB:1497:DA:H2''	11:AB:1498:DT:H71	1.80	0.64
11:AB:1584:DT:H71	11:AB:6121:DT:C2'	2.28	0.64
11:AB:1933:DT:C2'	11:AB:1934:DT:H71	2.28	0.64
11:AB:2034:DT:H71	11:AB:5857:DT:C2'	2.28	0.64
11:AB:2114:DA:C2'	11:AB:2115:DT:H71	2.27	0.64
11:AB:2132:DT:C2'	11:AB:2133:DT:H71	2.28	0.64
11:AB:2134:DT:C2'	11:AB:2135:DT:H71	2.28	0.64
11:AB:2197:DT:C2'	11:AB:2198:DT:H71	2.28	0.64
11:AB:2243:DT:C2'	11:AB:2244:DT:H71	2.28	0.64
11:AB:2244:DT:C2'	11:AB:2245:DT:H71	2.28	0.64
11:AB:2460:DT:C2'	11:AB:2461:DT:H71	2.28	0.64
11:AB:2559:DT:C2'	11:AB:2560:DT:H71	2.28	0.64
11:AB:2677:DA:H2''	11:AB:2678:DT:H71	1.80	0.64
11:AB:2738:DT:C2'	11:AB:2739:DT:H71	2.28	0.64
11:AB:3029:DA:C2'	11:AB:3030:DT:H71	2.27	0.64
11:AB:3062:DT:C2'	11:AB:3063:DT:H71	2.28	0.64
11:AB:3128:DA:C2'	11:AB:3129:DT:H71	2.27	0.64
11:AB:3245:DT:C2'	11:AB:3246:DT:H71	2.28	0.64
11:AB:3791:DT:C2'	11:AB:3792:DT:H71	2.28	0.64
11:AB:4160:DT:C2'	11:AB:4161:DT:H71	2.28	0.64
11:AB:4165:DT:C2'	11:AB:4166:DT:H71	2.28	0.64
11:AB:4170:DT:C2'	11:AB:4171:DT:H71	2.28	0.64
11:AB:4491:DT:C2'	11:AB:4492:DT:H71	2.28	0.64
11:AB:5270:DT:C2'	11:AB:5271:DT:H71	2.28	0.64
11:AB:5328:DT:C2'	11:AB:5329:DT:H71	2.28	0.64
11:AB:5435:DT:C2'	11:AB:5436:DT:H71	2.28	0.64
11:AB:5684:DT:C2'	11:AB:5685:DT:H71	2.28	0.64
11:AB:5713:DT:C2'	11:AB:5714:DT:H71	2.28	0.64
11:AB:5767:DT:C2'	11:AB:5768:DT:H71	2.28	0.64
11:AB:5774:DT:C2'	11:AB:5775:DT:H71	2.28	0.64
11:AB:5952:DT:C2'	11:AB:5953:DT:H71	2.28	0.64
11:AB:6008:DA:C2'	11:AB:6009:DT:H71	2.27	0.64
11:AB:6070:DA:H2''	11:AB:6071:DT:H71	1.80	0.64
11:AB:6280:DT:C2'	11:AB:6281:DT:H71	2.28	0.64
11:AB:6396:DT:C2'	11:AB:6397:DT:H71	2.28	0.64
11:AB:6578:DT:C2'	11:AB:6579:DT:H71	2.28	0.64
11:AB:6679:DT:C2'	11:AB:6680:DT:H71	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6757:DT:C2'	11:AB:6758:DT:H71	2.28	0.64
11:AB:6894:DA:C2'	11:AB:6895:DT:H71	2.27	0.64
11:AB:6990:DT:C2'	11:AB:6991:DT:H71	2.28	0.64
11:AB:7094:DT:C2'	11:AB:7095:DT:H71	2.28	0.64
11:AB:7170:DT:C2'	11:AB:7171:DT:H71	2.28	0.64
13:AD:19:DA:C2'	13:AD:20:DT:H71	2.27	0.64
19:B6:23:DT:C2'	19:B6:24:DT:H71	2.28	0.64
20:B7:5:DT:C2'	20:B7:6:DT:H71	2.28	0.64
31:C7:4:DT:C2'	31:C7:5:DT:H71	2.28	0.64
36:CD:24:DA:C2'	36:CD:25:DT:H71	2.27	0.64
37:D1:4:DT:C2'	37:D1:5:DT:H71	2.28	0.64
51:E5:31:DT:C2'	51:E5:32:DT:H71	2.28	0.64
62:F5:10:DT:C2'	93:I2:8:DT:H71	2.28	0.64
67:FA:24:DT:C2'	67:FA:25:DT:H71	2.28	0.64
74:G6:15:DT:C2'	74:G6:16:DT:H71	2.28	0.64
95:I5:25:DT:C2'	95:I5:26:DT:H71	2.28	0.64
96:I6:11:DT:C2'	96:I6:12:DT:H71	2.28	0.64
102:ID:14:DT:C2'	102:ID:15:DT:H71	2.28	0.64
109:J8:23:DT:C2'	109:J8:24:DT:H71	2.28	0.64
127:L3:13:DT:C2'	127:L3:14:DT:H71	2.28	0.64
142:M9:23:DT:C2'	218:UA:1:DT:H71	2.28	0.64
152:N9:5:DT:C2'	152:N9:6:DT:H71	2.28	0.64
167:P3:14:DT:C2'	167:P3:15:DT:H71	2.28	0.64
172:P9:11:DT:C2'	172:P9:12:DT:H71	2.28	0.64
186:R3:16:DT:C2'	186:R3:17:DT:H71	2.28	0.64
189:R8:13:DT:C2'	189:R8:14:DT:H71	2.28	0.64
190:R9:1:DT:C2'	190:R9:2:DT:H71	2.28	0.64
190:R9:20:DT:C2'	190:R9:21:DT:H71	2.28	0.64
191:RA:16:DA:H2''	191:RA:17:DT:H71	1.80	0.64
203:T2:18:DT:C2'	203:T2:19:DT:H71	2.28	0.64
211:TD:24:DA:H2''	211:TD:25:DT:H71	1.80	0.64
215:U7:3:DA:C2'	215:U7:4:DT:H71	2.27	0.64
218:UA:2:DT:C2'	218:UA:3:DT:H71	2.28	0.64
219:UC:15:DT:C2'	219:UC:16:DT:H71	2.28	0.64
222:V3:6:DT:C2'	222:V3:7:DT:H71	2.28	0.64
230:W3:32:DT:C2'	230:W3:33:DT:H71	2.28	0.64
232:W7:26:DT:C2'	232:W7:27:DT:H71	2.28	0.64
5:A5:11:DT:C2'	5:A5:12:DT:H71	2.28	0.64
11:AB:107:DA:H2''	11:AB:108:DT:H71	1.80	0.64
11:AB:281:DT:C2'	11:AB:282:DT:H71	2.28	0.64
11:AB:609:DT:C2'	11:AB:610:DT:H71	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:771:DT:C2'	11:AB:772:DT:H71	2.28	0.64
11:AB:875:DT:C2'	11:AB:876:DT:H71	2.28	0.64
11:AB:1344:DT:C2'	11:AB:1345:DT:H71	2.28	0.64
11:AB:1725:DT:C2'	11:AB:1726:DT:H71	2.28	0.64
11:AB:1740:DT:C2'	11:AB:1741:DT:H71	2.28	0.64
11:AB:1780:DT:C2'	11:AB:1781:DT:H71	2.28	0.64
11:AB:2155:DT:C2'	11:AB:2156:DT:H71	2.28	0.64
11:AB:2158:DT:C2'	11:AB:2159:DT:H71	2.28	0.64
11:AB:2419:DT:C2'	11:AB:2420:DT:H71	2.28	0.64
11:AB:2422:DA:C2'	11:AB:2423:DT:H71	2.27	0.64
11:AB:2625:DT:C2'	11:AB:2626:DT:H71	2.28	0.64
11:AB:2804:DA:C2'	11:AB:2805:DT:H71	2.27	0.64
11:AB:3362:DT:C2'	11:AB:3363:DT:H71	2.28	0.64
11:AB:3404:DT:C2'	11:AB:3405:DT:H71	2.28	0.64
11:AB:3534:DT:C2'	11:AB:3535:DT:H71	2.28	0.64
11:AB:3693:DA:H2''	11:AB:3694:DT:H71	1.80	0.64
11:AB:3885:DT:C2'	11:AB:3886:DT:H71	2.28	0.64
11:AB:3907:DT:C2'	11:AB:3908:DT:H71	2.28	0.64
11:AB:4030:DT:C2'	11:AB:4031:DT:H71	2.28	0.64
11:AB:4181:DT:C2'	11:AB:4182:DT:H71	2.28	0.64
11:AB:4352:DA:H2''	11:AB:4353:DT:H71	1.80	0.64
11:AB:5269:DT:C2'	11:AB:5270:DT:H71	2.28	0.64
11:AB:5385:DT:C2'	11:AB:5386:DT:H71	2.28	0.64
11:AB:5507:DA:C2'	11:AB:5508:DT:H71	2.27	0.64
11:AB:5679:DT:C2'	11:AB:5680:DT:H71	2.28	0.64
11:AB:5770:DT:C2'	11:AB:5771:DT:H71	2.28	0.64
11:AB:5843:DT:C2'	11:AB:5844:DT:H71	2.28	0.64
11:AB:5894:DT:C2'	11:AB:5895:DT:H71	2.28	0.64
11:AB:6205:DT:C2'	11:AB:6206:DT:H71	2.28	0.64
11:AB:6221:DT:C2'	11:AB:6222:DT:H71	2.28	0.64
11:AB:6548:DT:C2'	11:AB:6549:DT:H71	2.28	0.64
11:AB:6700:DT:C2'	11:AB:6701:DT:H71	2.28	0.64
11:AB:6993:DT:C2'	11:AB:6994:DT:H71	2.28	0.64
18:B5:27:DT:C2'	18:B5:28:DT:H71	2.28	0.64
20:B7:14:DT:C2'	20:B7:15:DT:H71	2.28	0.64
21:B8:5:DT:C2'	21:B8:6:DT:H71	2.28	0.64
30:C6:20:DT:C2'	30:C6:21:DT:H71	2.28	0.64
39:D3:21:DA:C2'	39:D3:22:DT:H71	2.27	0.64
50:E3:11:DT:C2'	50:E3:12:DT:H71	2.28	0.64
54:E8:13:DT:C2'	54:E8:14:DT:H71	2.28	0.64
54:E8:17:DT:H71	109:J8:21:DT:C2'	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:E9:36:DT:C2'	55:E9:37:DT:H71	2.28	0.64
56:EA:6:DT:C2'	56:EA:7:DT:H71	2.28	0.64
58:ED:40:DA:C2'	58:ED:41:DT:H71	2.27	0.64
60:F2:18:DT:C2'	230:W3:22:DT:H71	2.28	0.64
64:F7:27:DT:C2'	64:F7:28:DT:H71	2.28	0.64
93:I2:10:DA:C2'	93:I2:11:DT:H71	2.27	0.64
96:I6:12:DT:C2'	96:I6:13:DT:H71	2.28	0.64
98:I8:19:DA:H2''	98:I8:20:DT:H71	1.80	0.64
105:J3:25:DT:C2'	105:J3:26:DT:H71	2.28	0.64
105:J3:28:DT:H71	235:WD:13:DT:C2'	2.28	0.64
114:K1:14:DT:C2'	137:M3:22:DT:H71	2.28	0.64
122:KA:37:DT:C2'	122:KA:38:DT:H71	2.28	0.64
125:L1:23:DT:C2'	125:L1:24:DT:H71	2.28	0.64
126:L2:22:DT:C2'	126:L2:23:DT:H71	2.28	0.64
126:L2:30:DA:H2''	126:L2:31:DT:H71	1.81	0.64
132:L9:17:DA:H2''	132:L9:18:DT:H71	1.80	0.64
145:MD:29:DT:C2'	145:MD:30:DT:H71	2.28	0.64
146:N2:11:DT:C2'	146:N2:12:DT:H71	2.28	0.64
147:N3:32:DT:C2'	147:N3:33:DT:H71	2.28	0.64
152:N9:10:DT:C2'	208:T9:14:DT:H71	2.28	0.64
156:O2:3:DA:C2'	156:O2:4:DT:H71	2.27	0.64
159:O6:1:DT:H71	169:P6:13:DT:C2'	2.28	0.64
161:O8:48:DT:C2'	161:O8:49:DT:H71	2.28	0.64
164:OC:18:DT:C2'	164:OC:19:DT:H71	2.28	0.64
165:OD:24:DA:H2''	165:OD:25:DT:H71	1.81	0.64
173:PA:23:DT:C2'	173:PA:24:DT:H71	2.28	0.64
181:Q9:34:DT:C2'	181:Q9:35:DT:H71	2.28	0.64
189:R8:25:DT:C2'	189:R8:26:DT:H71	2.28	0.64
191:RA:28:DT:C2'	191:RA:29:DT:H71	2.28	0.64
200:SA:23:DT:C2'	200:SA:24:DT:H71	2.28	0.64
219:UC:10:DT:C2'	219:UC:11:DT:H71	2.28	0.64
221:V2:21:DA:C2'	221:V2:22:DT:H71	2.27	0.64
222:V3:8:DT:C2'	222:V3:9:DT:H71	2.28	0.64
238:X9:40:DT:C2'	238:X9:41:DT:H71	2.28	0.64
1:A1:5:DT:C2'	115:K2:31:DT:H71	2.28	0.63
3:A3:16:DT:C2'	39:D3:5:DT:H71	2.28	0.63
4:A4:27:DT:C2'	4:A4:28:DT:H71	2.28	0.63
5:A5:12:DT:C2'	5:A5:13:DT:H71	2.28	0.63
6:A6:24:DT:C2'	6:A6:25:DT:H71	2.28	0.63
9:A9:3:DT:C2'	9:A9:4:DT:H71	2.28	0.63
10:AA:16:DT:C2'	22:B9:29:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:130:DT:C2'	11:AB:131:DT:H71	2.28	0.63
11:AB:172:DT:C2'	11:AB:173:DT:H71	2.28	0.63
11:AB:181:DT:C2'	11:AB:182:DT:H71	2.28	0.63
11:AB:530:DT:C2'	11:AB:531:DT:H71	2.28	0.63
11:AB:776:DT:C2'	11:AB:777:DT:H71	2.28	0.63
11:AB:784:DT:C2'	11:AB:785:DT:H71	2.28	0.63
11:AB:917:DT:C2'	11:AB:918:DT:H71	2.28	0.63
11:AB:1085:DT:C2'	11:AB:1086:DT:H71	2.28	0.63
11:AB:1438:DT:C2'	11:AB:1439:DT:H71	2.28	0.63
11:AB:1439:DT:C2'	11:AB:1440:DT:H71	2.28	0.63
11:AB:1446:DT:C2'	11:AB:1447:DT:H71	2.28	0.63
11:AB:1451:DT:C2'	11:AB:1452:DT:H71	2.28	0.63
11:AB:1472:DT:C2'	11:AB:1473:DT:H71	2.28	0.63
11:AB:1490:DT:C2'	11:AB:1491:DT:H71	2.28	0.63
11:AB:1649:DT:C2'	11:AB:1650:DT:H71	2.28	0.63
11:AB:1712:DT:C2'	11:AB:1713:DT:H71	2.28	0.63
11:AB:1753:DT:C2'	11:AB:1754:DT:H71	2.28	0.63
11:AB:2133:DT:C2'	11:AB:2134:DT:H71	2.28	0.63
11:AB:2137:DT:C2'	11:AB:2138:DT:H71	2.28	0.63
11:AB:2201:DT:C2'	11:AB:2202:DT:H71	2.28	0.63
11:AB:2347:DT:C2'	11:AB:2348:DT:H71	2.28	0.63
11:AB:2518:DT:C2'	11:AB:2519:DT:H71	2.28	0.63
11:AB:2626:DT:C2'	11:AB:2627:DT:H71	2.28	0.63
11:AB:2659:DT:C2'	11:AB:2660:DT:H71	2.28	0.63
11:AB:2681:DT:C2'	11:AB:2682:DT:H71	2.28	0.63
11:AB:2767:DT:C2'	11:AB:2768:DT:H71	2.28	0.63
11:AB:2816:DT:C2'	11:AB:2817:DT:H71	2.28	0.63
11:AB:2830:DT:C2'	11:AB:2831:DT:H71	2.28	0.63
11:AB:2957:DT:C2'	11:AB:2958:DT:H71	2.28	0.63
11:AB:3005:DT:C2'	11:AB:3006:DT:H71	2.28	0.63
11:AB:3161:DT:C2'	11:AB:3162:DT:H71	2.28	0.63
11:AB:3182:DT:C2'	11:AB:3183:DT:H71	2.28	0.63
11:AB:3287:DT:C2'	11:AB:3288:DT:H71	2.28	0.63
11:AB:3329:DT:C2'	11:AB:3330:DT:H71	2.28	0.63
11:AB:3389:DT:C2'	11:AB:3390:DT:H71	2.28	0.63
11:AB:3435:DT:C2'	11:AB:3436:DT:H71	2.28	0.63
11:AB:3504:DT:C2'	11:AB:3505:DT:H71	2.28	0.63
11:AB:3533:DT:C2'	11:AB:3534:DT:H71	2.28	0.63
11:AB:3588:DT:C2'	11:AB:3589:DT:H71	2.28	0.63
11:AB:3788:DT:C2'	11:AB:3789:DT:H71	2.28	0.63
11:AB:3820:DT:C2'	11:AB:3821:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3881:DT:C2'	11:AB:3882:DT:H71	2.28	0.63
11:AB:3886:DT:C2'	11:AB:3887:DT:H71	2.28	0.63
11:AB:4579:DA:H2''	11:AB:4580:DT:H71	1.80	0.63
11:AB:4914:DT:C2'	11:AB:4915:DT:H71	2.28	0.63
11:AB:5030:DT:C2'	11:AB:5031:DT:H71	2.28	0.63
11:AB:5184:DT:C2'	11:AB:5185:DT:H71	2.28	0.63
11:AB:5268:DT:C2'	11:AB:5269:DT:H71	2.28	0.63
11:AB:5790:DT:C2'	11:AB:5791:DT:H71	2.28	0.63
11:AB:6149:DT:C2'	11:AB:6150:DT:H71	2.28	0.63
11:AB:6257:DT:C2'	11:AB:6258:DT:H71	2.28	0.63
11:AB:6424:DT:C2'	11:AB:6425:DT:H71	2.28	0.63
11:AB:6549:DT:C2'	11:AB:6550:DT:H71	2.28	0.63
11:AB:6569:DT:C2'	11:AB:6570:DT:H71	2.28	0.63
11:AB:6582:DT:C2'	11:AB:6583:DT:H71	2.28	0.63
11:AB:6597:DT:C2'	11:AB:6598:DT:H71	2.28	0.63
11:AB:6648:DA:H2''	11:AB:6649:DT:H71	1.81	0.63
11:AB:6673:DT:C2'	11:AB:6674:DT:H71	2.28	0.63
11:AB:6808:DT:C2'	11:AB:6809:DT:H71	2.28	0.63
11:AB:7001:DT:C2'	11:AB:7002:DT:H71	2.28	0.63
11:AB:7133:DT:C2'	11:AB:7134:DT:H71	2.28	0.63
11:AB:7183:DT:C2'	11:AB:7184:DT:H71	2.28	0.63
21:B8:6:DT:C2'	21:B8:7:DT:H71	2.28	0.63
41:D6:38:DT:C2'	41:D6:39:DT:H71	2.28	0.63
49:E2:21:DT:C2'	49:E2:22:DT:H71	2.28	0.63
53:E7:9:DT:C2'	53:E7:10:DT:H71	2.28	0.63
54:E8:11:DT:C2'	54:E8:12:DT:H71	2.29	0.63
60:F2:9:DT:C2'	60:F2:10:DT:H71	2.28	0.63
74:G6:14:DT:C2'	74:G6:15:DT:H71	2.28	0.63
77:G9:6:DT:C2'	77:G9:7:DT:H71	2.28	0.63
83:H3:8:DT:C2'	83:H3:9:DT:H71	2.28	0.63
92:I1:19:DA:H2''	92:I1:20:DT:H71	1.81	0.63
93:I2:3:DA:H2''	93:I2:4:DT:H71	1.80	0.63
96:I6:1:DT:C2'	96:I6:2:DT:H71	2.28	0.63
100:IA:14:DT:C2'	100:IA:15:DT:H71	2.28	0.63
108:J7:24:DT:C2'	108:J7:25:DT:H71	2.28	0.63
109:J8:31:DA:H2''	109:J8:32:DT:H71	1.81	0.63
115:K2:5:DA:C2'	115:K2:6:DT:H71	2.27	0.63
119:K7:19:DT:C2'	119:K7:20:DT:H71	2.28	0.63
122:KA:7:DT:C2'	209:TA:19:DT:H71	2.28	0.63
136:M2:2:DT:C2'	136:M2:3:DT:H71	2.28	0.63
136:M2:10:DT:C2'	136:M2:11:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
138:M5:10:DT:C2'	138:M5:11:DT:H71	2.28	0.63
141:M8:28:DT:C2'	141:M8:29:DT:H71	2.28	0.63
144:MC:14:DT:C2'	144:MC:15:DT:H71	2.28	0.63
154:NC:18:DT:C2'	154:NC:19:DT:H71	2.28	0.63
156:O2:1:DT:H71	166:P2:16:DT:C2'	2.28	0.63
166:P2:18:DT:C2'	166:P2:19:DT:H71	2.28	0.63
166:P2:34:DT:C2'	166:P2:35:DT:H71	2.28	0.63
172:P9:23:DT:C2'	172:P9:24:DT:H71	2.28	0.63
174:PC:21:DT:C2'	174:PC:22:DT:H71	2.28	0.63
178:Q5:36:DT:H71	214:U5:14:DT:C2'	2.28	0.63
185:R2:1:DT:H71	198:S8:31:DT:C2'	2.28	0.63
189:R8:12:DT:C2'	189:R8:13:DT:H71	2.28	0.63
196:S5:30:DT:C2'	196:S5:31:DT:H71	2.28	0.63
198:S8:25:DT:C2'	198:S8:26:DT:H71	2.28	0.63
219:UC:11:DT:C2'	219:UC:12:DT:H71	2.28	0.63
231:W5:28:DT:C2'	231:W5:29:DT:H71	2.28	0.63
232:W7:13:DT:C2'	232:W7:14:DT:H71	2.28	0.63
2:A2:15:DT:C2'	2:A2:16:DT:H71	2.28	0.63
2:A2:27:DT:C2'	2:A2:28:DT:H71	2.28	0.63
7:A7:19:DT:C2'	7:A7:20:DT:H71	2.28	0.63
7:A7:39:DT:C2'	7:A7:40:DT:H71	2.28	0.63
9:A9:1:DT:C2'	9:A9:2:DT:H71	2.28	0.63
11:AB:10:DT:C2'	11:AB:11:DT:H71	2.28	0.63
11:AB:30:DT:C2'	11:AB:31:DT:H71	2.28	0.63
11:AB:133:DT:C2'	11:AB:134:DT:H71	2.28	0.63
11:AB:159:DT:C2'	11:AB:160:DT:H71	2.28	0.63
11:AB:290:DT:C2'	11:AB:291:DT:H71	2.28	0.63
11:AB:331:DT:C2'	11:AB:332:DT:H71	2.28	0.63
11:AB:602:DT:C2'	11:AB:603:DT:H71	2.28	0.63
11:AB:756:DT:C2'	11:AB:757:DT:H71	2.28	0.63
11:AB:802:DT:C2'	11:AB:803:DT:H71	2.28	0.63
11:AB:803:DT:C2'	11:AB:804:DT:H71	2.28	0.63
11:AB:1106:DT:C2'	11:AB:1107:DT:H71	2.28	0.63
11:AB:1211:DT:C2'	11:AB:1212:DT:H71	2.28	0.63
11:AB:1241:DT:C2'	11:AB:1242:DT:H71	2.28	0.63
11:AB:1356:DT:C2'	11:AB:1357:DT:H71	2.28	0.63
11:AB:1509:DT:C2'	11:AB:1510:DT:H71	2.28	0.63
11:AB:1631:DT:C2'	11:AB:1632:DT:H71	2.28	0.63
11:AB:1710:DT:C2'	11:AB:1711:DT:H71	2.28	0.63
11:AB:1774:DT:C2'	11:AB:1775:DT:H71	2.28	0.63
11:AB:1885:DT:C2'	11:AB:1886:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1952:DT:C2'	11:AB:1953:DT:H71	2.28	0.63
11:AB:2232:DT:C2'	11:AB:2233:DT:H71	2.28	0.63
11:AB:2233:DT:C2'	11:AB:2234:DT:H71	2.28	0.63
11:AB:2249:DT:C2'	11:AB:2250:DT:H71	2.28	0.63
11:AB:2302:DT:C2'	11:AB:2303:DT:H71	2.28	0.63
11:AB:2335:DT:C2'	11:AB:2336:DT:H71	2.28	0.63
11:AB:2395:DT:C2'	11:AB:2396:DT:H71	2.28	0.63
11:AB:2475:DT:C2'	11:AB:2476:DT:H71	2.28	0.63
11:AB:2560:DT:C2'	11:AB:2561:DT:H71	2.28	0.63
11:AB:2860:DA:H2''	11:AB:2861:DT:H71	1.81	0.63
11:AB:2889:DT:C2'	11:AB:2890:DT:H71	2.28	0.63
11:AB:2927:DT:C2'	11:AB:2928:DT:H71	2.28	0.63
11:AB:2934:DT:C2'	11:AB:2935:DT:H71	2.28	0.63
11:AB:3054:DT:C2'	11:AB:3055:DT:H71	2.28	0.63
11:AB:3308:DT:C2'	11:AB:3309:DT:H71	2.28	0.63
11:AB:3367:DT:C2'	11:AB:3368:DT:H71	2.28	0.63
11:AB:3410:DT:C2'	11:AB:3411:DT:H71	2.28	0.63
11:AB:3639:DT:C2'	11:AB:3640:DT:H71	2.28	0.63
11:AB:3666:DT:C2'	11:AB:3667:DT:H71	2.28	0.63
11:AB:3667:DT:C2'	11:AB:3668:DT:H71	2.28	0.63
11:AB:3746:DT:C2'	11:AB:3747:DT:H71	2.28	0.63
11:AB:3767:DT:C2'	11:AB:3768:DT:H71	2.28	0.63
11:AB:3800:DT:C2'	11:AB:3801:DT:H71	2.28	0.63
11:AB:3869:DT:C2'	11:AB:3870:DT:H71	2.28	0.63
11:AB:4191:DT:C2'	11:AB:4192:DT:H71	2.28	0.63
11:AB:4273:DT:C2'	11:AB:4274:DT:H71	2.28	0.63
11:AB:4345:DT:C2'	11:AB:4346:DT:H71	2.28	0.63
11:AB:4404:DT:C2'	11:AB:4405:DT:H71	2.28	0.63
11:AB:4721:DT:C2'	11:AB:4722:DT:H71	2.28	0.63
11:AB:4741:DT:C2'	11:AB:4742:DT:H71	2.28	0.63
11:AB:4984:DT:C2'	11:AB:4985:DT:H71	2.28	0.63
11:AB:5031:DT:C2'	11:AB:5032:DT:H71	2.28	0.63
11:AB:5329:DT:C2'	11:AB:5330:DT:H71	2.28	0.63
11:AB:5354:DT:C2'	11:AB:5355:DT:H71	2.28	0.63
11:AB:5393:DT:C2'	11:AB:5394:DT:H71	2.28	0.63
11:AB:5449:DT:C2'	11:AB:5450:DT:H71	2.28	0.63
11:AB:5645:DT:C2'	11:AB:5646:DT:H71	2.28	0.63
11:AB:5671:DT:C2'	11:AB:5672:DT:H71	2.28	0.63
11:AB:5779:DT:C2'	11:AB:5780:DT:H71	2.28	0.63
11:AB:5904:DT:C2'	11:AB:5905:DT:H71	2.28	0.63
11:AB:6206:DT:C2'	11:AB:6207:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6264:DT:C2'	11:AB:6265:DT:H71	2.28	0.63
11:AB:6367:DT:C2'	11:AB:6368:DT:H71	2.28	0.63
11:AB:6489:DT:C2'	11:AB:6490:DT:H71	2.28	0.63
11:AB:6600:DT:C2'	11:AB:6601:DT:H71	2.28	0.63
11:AB:6758:DT:C2'	11:AB:6759:DT:H71	2.28	0.63
11:AB:6864:DT:C2'	11:AB:6865:DT:H71	2.28	0.63
11:AB:6989:DT:C2'	11:AB:6990:DT:H71	2.28	0.63
11:AB:7103:DT:C2'	11:AB:7104:DT:H71	2.28	0.63
16:B3:14:DT:C2'	16:B3:15:DT:H71	2.28	0.63
21:B8:23:DT:C2'	21:B8:24:DT:H71	2.28	0.63
23:BA:6:DT:C2'	23:BA:7:DT:H71	2.28	0.63
26:C1:12:DT:C2'	26:C1:13:DT:H71	2.28	0.63
26:C1:23:DT:C2'	26:C1:24:DT:H71	2.28	0.63
27:C2:13:DT:C2'	149:N6:38:DT:H71	2.28	0.63
30:C6:27:DT:C2'	30:C6:28:DT:H71	2.28	0.63
31:C7:26:DT:C2'	31:C7:27:DT:H71	2.28	0.63
31:C7:27:DT:C2'	31:C7:28:DT:H71	2.28	0.63
32:C8:11:DT:C2'	32:C8:12:DT:H71	2.28	0.63
35:CC:13:DT:C2'	35:CC:14:DT:H71	2.28	0.63
43:D8:1:DT:H71	230:W3:49:DA:H2''	1.80	0.63
56:EA:16:DT:C2'	56:EA:17:DT:H71	2.28	0.63
62:F5:21:DT:C2'	62:F5:22:DT:H71	2.28	0.63
74:G6:19:DT:C2'	74:G6:20:DT:H71	2.28	0.63
84:H5:15:DT:C2'	84:H5:16:DT:H71	2.28	0.63
85:H6:19:DT:C2'	85:H6:20:DT:H71	2.28	0.63
105:J3:7:DT:C2'	105:J3:8:DT:H71	2.28	0.63
108:J7:43:DT:C2'	108:J7:44:DT:H71	2.28	0.63
111:JA:1:DT:C2'	111:JA:2:DT:H71	2.28	0.63
113:JD:15:DT:C2'	113:JD:16:DT:H71	2.28	0.63
114:K1:35:DT:C2'	119:K7:26:DT:H71	2.28	0.63
115:K2:31:DT:C2'	115:K2:32:DT:H71	2.28	0.63
117:K5:30:DT:C2'	117:K5:31:DT:H71	2.28	0.63
118:K6:7:DT:C2'	118:K6:8:DT:H71	2.28	0.63
120:K8:5:DT:H71	141:M8:30:DT:C2'	2.28	0.63
122:KA:29:DT:C2'	122:KA:30:DT:H71	2.28	0.63
126:L2:9:DT:C2'	126:L2:10:DT:H71	2.28	0.63
126:L2:31:DT:C2'	126:L2:32:DT:H71	2.28	0.63
130:L7:3:DT:C2'	130:L7:4:DT:H71	2.28	0.63
130:L7:17:DT:C2'	130:L7:18:DT:H71	2.28	0.63
130:L7:45:DT:C2'	130:L7:46:DT:H71	2.28	0.63
133:LA:4:DT:C2'	133:LA:5:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
144:MC:22:DT:C2'	144:MC:23:DT:H71	2.28	0.63
145:MD:10:DT:C2'	145:MD:11:DT:H71	2.28	0.63
145:MD:17:DT:H71	172:P9:16:DT:C2'	2.28	0.63
149:N6:9:DT:C2'	149:N6:10:DT:H71	2.28	0.63
152:N9:20:DT:C2'	152:N9:21:DT:H71	2.28	0.63
160:O7:22:DT:C2'	160:O7:23:DT:H71	2.28	0.63
171:P8:22:DT:C2'	171:P8:23:DT:H71	2.28	0.63
172:P9:12:DT:C2'	172:P9:13:DT:H71	2.28	0.63
173:PA:24:DT:C2'	173:PA:25:DT:H71	2.28	0.63
181:Q9:9:DT:C2'	181:Q9:10:DT:H71	2.28	0.63
181:Q9:11:DT:C2'	184:QD:22:DT:H71	2.28	0.63
190:R9:2:DT:C2'	190:R9:3:DT:H71	2.28	0.63
191:RA:17:DT:C2'	191:RA:18:DT:H71	2.28	0.63
200:SA:17:DT:C2'	200:SA:18:DT:H71	2.28	0.63
211:TD:1:DT:C2'	211:TD:2:DT:H71	2.28	0.63
217:U9:14:DT:C2'	217:U9:15:DT:H71	2.28	0.63
222:V3:19:DT:C2'	222:V3:20:DT:H71	2.28	0.63
235:WD:20:DT:C2'	235:WD:21:DT:H71	2.28	0.63
2:A2:17:DT:C2'	206:T7:46:DT:H71	2.28	0.63
11:AB:135:DT:C2'	11:AB:136:DT:H71	2.28	0.63
11:AB:194:DT:C2'	11:AB:195:DT:H71	2.28	0.63
11:AB:214:DT:C2'	11:AB:215:DT:H71	2.28	0.63
11:AB:286:DA:H2''	11:AB:287:DT:H71	1.80	0.63
11:AB:506:DT:C2'	11:AB:507:DT:H71	2.28	0.63
11:AB:798:DT:C2'	11:AB:799:DT:H71	2.28	0.63
11:AB:1111:DT:C2'	11:AB:1112:DT:H71	2.28	0.63
11:AB:1129:DT:C2'	11:AB:1130:DT:H71	2.28	0.63
11:AB:1272:DT:C2'	11:AB:1273:DT:H71	2.28	0.63
11:AB:1329:DT:C2'	11:AB:1330:DT:H71	2.28	0.63
11:AB:1354:DT:C2'	11:AB:1355:DT:H71	2.28	0.63
11:AB:1363:DT:C2'	11:AB:1364:DT:H71	2.28	0.63
11:AB:1507:DT:C2'	11:AB:1508:DT:H71	2.28	0.63
11:AB:1508:DT:C2'	11:AB:1509:DT:H71	2.28	0.63
11:AB:1584:DT:C2'	11:AB:1585:DT:H71	2.28	0.63
11:AB:1711:DT:C2'	11:AB:1712:DT:H71	2.28	0.63
11:AB:1741:DT:C2'	11:AB:1742:DT:H71	2.28	0.63
11:AB:1748:DT:C2'	11:AB:1749:DT:H71	2.28	0.63
11:AB:1964:DT:C2'	11:AB:1965:DT:H71	2.28	0.63
11:AB:2046:DT:C2'	11:AB:2047:DT:H71	2.28	0.63
11:AB:2060:DT:C2'	11:AB:2061:DT:H71	2.28	0.63
11:AB:2098:DT:C2'	11:AB:2099:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2140:DT:C2'	11:AB:2141:DT:H71	2.28	0.63
11:AB:2174:DT:C2'	11:AB:2175:DT:H71	2.28	0.63
11:AB:2198:DT:C2'	11:AB:2199:DT:H71	2.28	0.63
11:AB:2254:DT:C2'	11:AB:2255:DT:H71	2.28	0.63
11:AB:2293:DT:C2'	11:AB:2294:DT:H71	2.28	0.63
11:AB:2365:DT:H71	11:AB:5436:DT:C2'	2.28	0.63
11:AB:2394:DT:C2'	11:AB:2395:DT:H71	2.28	0.63
11:AB:2596:DT:C2'	11:AB:2597:DT:H71	2.28	0.63
11:AB:2786:DT:C2'	11:AB:2787:DT:H71	2.28	0.63
11:AB:2819:DT:C2'	11:AB:2820:DT:H71	2.28	0.63
11:AB:2849:DT:C2'	11:AB:2850:DT:H71	2.28	0.63
11:AB:2861:DT:C2'	11:AB:2862:DT:H71	2.28	0.63
11:AB:2890:DT:C2'	11:AB:2891:DT:H71	2.28	0.63
11:AB:2978:DT:C2'	11:AB:2979:DT:H71	2.28	0.63
11:AB:3032:DT:C2'	11:AB:3033:DT:H71	2.28	0.63
11:AB:3164:DT:C2'	11:AB:3165:DT:H71	2.28	0.63
11:AB:3522:DT:C2'	11:AB:3523:DT:H71	2.28	0.63
11:AB:3549:DT:C2'	11:AB:3550:DT:H71	2.28	0.63
11:AB:3715:DT:C2'	11:AB:3716:DT:H71	2.28	0.63
11:AB:3725:DT:C2'	11:AB:3726:DT:H71	2.28	0.63
11:AB:3761:DT:C2'	11:AB:3762:DT:H71	2.28	0.63
11:AB:3906:DT:C2'	11:AB:3907:DT:H71	2.28	0.63
11:AB:4125:DT:C2'	11:AB:4126:DT:H71	2.28	0.63
11:AB:4156:DT:C2'	11:AB:4157:DT:H71	2.28	0.63
11:AB:4285:DT:C2'	11:AB:4286:DT:H71	2.28	0.63
11:AB:4318:DT:C2'	11:AB:4319:DT:H71	2.28	0.63
11:AB:4408:DT:C2'	11:AB:4409:DT:H71	2.28	0.63
11:AB:4639:DT:C2'	11:AB:4640:DT:H71	2.28	0.63
11:AB:4640:DT:C2'	11:AB:4641:DT:H71	2.28	0.63
11:AB:4939:DT:C2'	11:AB:4940:DT:H71	2.28	0.63
11:AB:5181:DT:C2'	11:AB:5182:DT:H71	2.28	0.63
11:AB:5355:DT:C2'	11:AB:5356:DT:H71	2.28	0.63
11:AB:5462:DT:C2'	11:AB:5463:DT:H71	2.28	0.63
11:AB:5580:DT:C2'	11:AB:5581:DT:H71	2.28	0.63
11:AB:5617:DT:C2'	11:AB:5618:DT:H71	2.28	0.63
11:AB:5731:DT:C2'	11:AB:5732:DT:H71	2.28	0.63
11:AB:5905:DT:C2'	11:AB:5906:DT:H71	2.28	0.63
11:AB:6203:DT:C2'	11:AB:6204:DT:H71	2.28	0.63
11:AB:6461:DT:C2'	11:AB:6462:DT:H71	2.28	0.63
11:AB:6512:DT:C2'	11:AB:6513:DT:H71	2.28	0.63
11:AB:6667:DT:C2'	11:AB:6668:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6698:DA:H2''	11:AB:6699:DT:H71	1.80	0.63
11:AB:6945:DT:C2'	11:AB:6946:DT:H71	2.28	0.63
11:AB:6946:DT:C2'	11:AB:6947:DT:H71	2.28	0.63
11:AB:6957:DT:C2'	11:AB:6958:DT:H71	2.28	0.63
11:AB:6994:DT:C2'	11:AB:6995:DT:H71	2.28	0.63
11:AB:7035:DT:C2'	11:AB:7036:DT:H71	2.28	0.63
11:AB:7056:DT:C2'	11:AB:7057:DT:H71	2.28	0.63
11:AB:7115:DT:C2'	11:AB:7116:DT:H71	2.28	0.63
13:AD:37:DT:C2'	47:DD:28:DT:H71	2.28	0.63
15:B2:17:DA:H2''	15:B2:18:DT:H71	1.80	0.63
17:B4:6:DT:C2'	17:B4:7:DT:H71	2.28	0.63
18:B5:20:DT:C2'	18:B5:21:DT:H71	2.28	0.63
18:B5:21:DT:C2'	156:O2:22:DT:H71	2.28	0.63
34:CA:1:DT:H71	228:VC:21:DT:C2'	2.28	0.63
39:D3:12:DT:H71	202:SD:13:DT:C2'	2.28	0.63
39:D3:18:DA:H2''	103:J1:22:DT:H71	1.80	0.63
49:E2:23:DT:C2'	96:I6:1:DT:H71	2.28	0.63
62:F5:29:DT:C2'	62:F5:30:DT:H71	2.28	0.63
62:F5:45:DT:C2'	62:F5:46:DT:H71	2.28	0.63
68:FC:3:DT:C2'	68:FC:4:DT:H71	2.28	0.63
80:GD:7:DT:C2'	80:GD:8:DT:H71	2.28	0.63
89:HA:17:DT:C2'	89:HA:18:DT:H71	2.28	0.63
95:I5:24:DA:H2''	95:I5:25:DT:H71	1.80	0.63
95:I5:35:DT:C2'	138:M5:15:DT:H71	2.28	0.63
98:I8:5:DT:C2'	98:I8:6:DT:H71	2.28	0.63
102:ID:15:DT:C2'	102:ID:16:DT:H71	2.28	0.63
103:J1:28:DT:C2'	211:TD:1:DT:H71	2.28	0.63
105:J3:19:DT:C2'	105:J3:20:DT:H71	2.28	0.63
108:J7:3:DT:C2'	108:J7:4:DT:H71	2.28	0.63
109:J8:36:DT:H71	232:W7:27:DT:C2'	2.28	0.63
114:K1:13:DT:C2'	114:K1:14:DT:H71	2.28	0.63
118:K6:20:DT:C2'	118:K6:21:DT:H71	2.28	0.63
119:K7:19:DT:H71	230:W3:14:DT:C2'	2.28	0.63
120:K8:19:DT:C2'	120:K8:20:DT:H71	2.28	0.63
123:KC:13:DT:C2'	123:KC:14:DT:H71	2.28	0.63
124:KD:8:DT:C2'	124:KD:9:DT:H71	2.28	0.63
128:L5:8:DT:C2'	128:L5:9:DT:H71	2.28	0.63
129:L6:9:DT:C2'	129:L6:10:DT:H71	2.28	0.63
130:L7:50:DT:C2'	130:L7:51:DT:H71	2.28	0.63
132:L9:18:DT:C2'	132:L9:19:DT:H71	2.28	0.63
137:M3:27:DT:C2'	137:M3:28:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
138:M5:39:DT:C2'	138:M5:40:DT:H71	2.28	0.63
147:N3:15:DT:C2'	147:N3:16:DT:H71	2.28	0.63
155:ND:12:DT:C2'	184:QD:8:DT:H71	2.28	0.63
157:O3:23:DT:C2'	157:O3:24:DT:H71	2.28	0.63
161:O8:46:DT:C2'	161:O8:47:DT:H71	2.28	0.63
172:P9:9:DA:H2''	172:P9:10:DT:H71	1.80	0.63
177:Q3:10:DT:C2'	177:Q3:11:DT:H71	2.28	0.63
178:Q5:19:DT:C2'	178:Q5:20:DT:H71	2.28	0.63
181:Q9:29:DT:C2'	181:Q9:30:DT:H71	2.28	0.63
181:Q9:35:DT:C2'	181:Q9:36:DT:H71	2.28	0.63
183:QC:24:DT:C2'	183:QC:25:DT:H71	2.28	0.63
184:QD:10:DT:C2'	184:QD:11:DT:H71	2.28	0.63
189:R8:33:DT:C2'	189:R8:34:DT:H71	2.28	0.63
194:S2:26:DT:C2'	194:S2:27:DT:H71	2.28	0.63
195:S3:19:DT:C2'	195:S3:20:DT:H71	2.28	0.63
206:T7:46:DT:C2'	206:T7:47:DT:H71	2.28	0.63
211:TD:25:DT:C2'	211:TD:26:DT:H71	2.28	0.63
211:TD:33:DT:C2'	211:TD:34:DT:H71	2.28	0.63
215:U7:15:DT:C2'	215:U7:16:DT:H71	2.28	0.63
216:U8:9:DT:C2'	216:U8:10:DT:H71	2.28	0.63
223:V5:40:DT:C2'	223:V5:41:DT:H71	2.28	0.63
5:A5:1:DT:H71	138:M5:42:DA:H2''	1.80	0.63
5:A5:20:DT:C2'	5:A5:21:DT:H71	2.28	0.63
6:A6:19:DT:C2'	6:A6:20:DT:H71	2.28	0.63
7:A7:27:DT:C2'	118:K6:14:DT:H71	2.28	0.63
9:A9:14:DT:C2'	9:A9:15:DT:H71	2.28	0.63
11:AB:131:DT:C2'	11:AB:132:DT:H71	2.28	0.63
11:AB:184:DT:C2'	11:AB:185:DT:H71	2.28	0.63
11:AB:338:DT:C2'	11:AB:339:DT:H71	2.28	0.63
11:AB:1070:DT:C2'	11:AB:1071:DT:H71	2.28	0.63
11:AB:1120:DT:C2'	11:AB:1121:DT:H71	2.28	0.63
11:AB:1258:DT:C2'	11:AB:1259:DT:H71	2.28	0.63
11:AB:1279:DT:C2'	11:AB:1280:DT:H71	2.28	0.63
11:AB:1355:DT:C2'	11:AB:1356:DT:H71	2.28	0.63
11:AB:1434:DT:C2'	11:AB:1435:DT:H71	2.28	0.63
11:AB:1476:DT:C2'	11:AB:1477:DT:H71	2.28	0.63
11:AB:1486:DT:C2'	11:AB:1487:DT:H71	2.28	0.63
11:AB:1550:DT:C2'	11:AB:1551:DT:H71	2.28	0.63
11:AB:1563:DT:C2'	11:AB:1564:DT:H71	2.28	0.63
11:AB:1608:DT:C2'	11:AB:1609:DT:H71	2.28	0.63
11:AB:1644:DT:C2'	11:AB:1645:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1671:DT:C2'	11:AB:1672:DT:H71	2.28	0.63
11:AB:1680:DT:C2'	11:AB:1681:DT:H71	2.28	0.63
11:AB:1689:DT:C2'	11:AB:1690:DT:H71	2.28	0.63
11:AB:1719:DT:C2'	11:AB:1720:DT:H71	2.28	0.63
11:AB:1877:DT:C2'	11:AB:1878:DT:H71	2.28	0.63
11:AB:1965:DT:C2'	11:AB:1966:DT:H71	2.28	0.63
11:AB:2089:DT:C2'	11:AB:2090:DT:H71	2.28	0.63
11:AB:2128:DT:C2'	11:AB:2129:DT:H71	2.28	0.63
11:AB:2231:DT:C2'	11:AB:2232:DT:H71	2.28	0.63
11:AB:2405:DT:C2'	11:AB:2406:DT:H71	2.28	0.63
11:AB:2517:DT:C2'	11:AB:2518:DT:H71	2.28	0.63
11:AB:2536:DT:C2'	11:AB:2537:DT:H71	2.28	0.63
11:AB:2720:DT:C2'	11:AB:2721:DT:H71	2.28	0.63
11:AB:2800:DT:C2'	11:AB:2801:DT:H71	2.28	0.63
11:AB:2821:DT:C2'	11:AB:2822:DT:H71	2.28	0.63
11:AB:3004:DT:C2'	11:AB:3005:DT:H71	2.28	0.63
11:AB:3194:DT:C2'	11:AB:3195:DT:H71	2.28	0.63
11:AB:3209:DT:C2'	11:AB:3210:DT:H71	2.28	0.63
11:AB:3426:DT:C2'	11:AB:3427:DT:H71	2.28	0.63
11:AB:3510:DT:C2'	11:AB:3511:DT:H71	2.28	0.63
11:AB:3535:DT:C2'	11:AB:3536:DT:H71	2.28	0.63
11:AB:4079:DT:C2'	11:AB:4080:DT:H71	2.28	0.63
11:AB:4222:DT:C2'	11:AB:4223:DT:H71	2.28	0.63
11:AB:4236:DT:C2'	11:AB:4237:DT:H71	2.28	0.63
11:AB:4243:DT:C2'	11:AB:4244:DT:H71	2.28	0.63
11:AB:4317:DT:C2'	11:AB:4318:DT:H71	2.28	0.63
11:AB:4327:DT:C2'	11:AB:4328:DT:H71	2.28	0.63
11:AB:4366:DT:C2'	11:AB:4367:DT:H71	2.28	0.63
11:AB:4426:DT:C2'	11:AB:4427:DT:H71	2.28	0.63
11:AB:4457:DT:C2'	11:AB:4458:DT:H71	2.28	0.63
11:AB:4769:DT:C2'	11:AB:4770:DT:H71	2.28	0.63
11:AB:4940:DT:C2'	11:AB:4941:DT:H71	2.28	0.63
11:AB:5021:DT:C2'	11:AB:5022:DT:H71	2.28	0.63
11:AB:5163:DT:C2'	11:AB:5164:DT:H71	2.28	0.63
11:AB:5271:DT:C2'	11:AB:5272:DT:H71	2.28	0.63
11:AB:5347:DT:C2'	11:AB:5348:DT:H71	2.28	0.63
11:AB:5384:DT:C2'	11:AB:5385:DT:H71	2.28	0.63
11:AB:5501:DT:C2'	11:AB:5502:DT:H71	2.28	0.63
11:AB:5672:DT:C2'	11:AB:5673:DT:H71	2.28	0.63
11:AB:5751:DT:C2'	11:AB:5752:DT:H71	2.28	0.63
11:AB:5834:DT:C2'	11:AB:5835:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5855:DT:C2'	11:AB:5856:DT:H71	2.28	0.63
11:AB:5897:DT:C2'	11:AB:5898:DT:H71	2.28	0.63
11:AB:6002:DT:C2'	11:AB:6003:DT:H71	2.28	0.63
11:AB:6274:DT:C2'	11:AB:6275:DT:H71	2.28	0.63
11:AB:6281:DT:C2'	11:AB:6282:DT:H71	2.28	0.63
11:AB:6638:DT:C2'	11:AB:6639:DT:H71	2.28	0.63
11:AB:7047:DT:C2'	11:AB:7048:DT:H71	2.28	0.63
21:B8:22:DT:C2'	139:M6:15:DT:H71	2.28	0.63
22:B9:35:DT:C2'	228:VC:8:DT:H71	2.28	0.63
23:BA:13:DA:H2''	23:BA:14:DT:H71	1.80	0.63
26:C1:15:DT:C2'	26:C1:16:DT:H71	2.28	0.63
31:C7:5:DT:C2'	49:E2:31:DT:H71	2.28	0.63
31:C7:11:DT:C2'	31:C7:12:DT:H71	2.28	0.63
37:D1:7:DT:C2'	138:M5:29:DT:H71	2.28	0.63
49:E2:15:DT:C2'	49:E2:16:DT:H71	2.28	0.63
50:E3:7:DT:C2'	50:E3:8:DT:H71	2.28	0.63
52:E6:14:DA:H2''	71:G2:14:DT:H71	1.80	0.63
62:F5:9:DT:C2'	62:F5:10:DT:H71	2.28	0.63
69:FD:21:DA:H2''	225:V8:18:DT:H71	1.80	0.63
89:HA:6:DT:C2'	89:HA:7:DT:H71	2.28	0.63
94:I3:25:DT:H71	107:J6:28:DT:C2'	2.28	0.63
94:I3:53:DT:H71	115:K2:23:DT:C2'	2.28	0.63
96:I6:7:DT:C2'	96:I6:8:DT:H71	2.28	0.63
102:ID:9:DT:C2'	102:ID:10:DT:H71	2.28	0.63
122:KA:49:DT:C2'	122:KA:50:DT:H71	2.28	0.63
124:KD:9:DT:C2'	124:KD:10:DT:H71	2.28	0.63
127:L3:14:DT:C2'	211:TD:29:DT:H71	2.28	0.63
136:M2:21:DT:C2'	166:P2:17:DT:H71	2.28	0.63
140:M7:10:DT:C2'	206:T7:11:DT:H71	2.28	0.63
144:MC:21:DT:C2'	144:MC:22:DT:H71	2.28	0.63
145:MD:30:DT:C2'	173:PA:22:DT:H71	2.28	0.63
147:N3:27:DT:C2'	147:N3:28:DT:H71	2.28	0.63
152:N9:9:DT:C2'	152:N9:10:DT:H71	2.28	0.63
171:P8:18:DT:H71	185:R2:14:DT:C2'	2.28	0.63
177:Q3:12:DT:C2'	177:Q3:13:DT:H71	2.28	0.63
181:Q9:33:DT:C2'	181:Q9:34:DT:H71	2.28	0.63
184:QD:31:DT:C2'	190:R9:1:DT:H71	2.28	0.63
214:U5:13:DT:C2'	214:U5:14:DT:H71	2.28	0.63
214:U5:41:DT:C2'	214:U5:42:DT:H71	2.28	0.63
220:UD:2:DT:C2'	220:UD:3:DT:H71	2.28	0.63
11:AB:65:DT:C2'	11:AB:66:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:129:DT:C2'	11:AB:130:DT:H71	2.28	0.63
11:AB:134:DT:C2'	11:AB:135:DT:H71	2.28	0.63
11:AB:142:DT:C2'	11:AB:143:DT:H71	2.28	0.63
11:AB:282:DT:C2'	11:AB:283:DT:H71	2.28	0.63
11:AB:376:DT:C2'	11:AB:377:DT:H71	2.28	0.63
11:AB:431:DT:C2'	11:AB:432:DT:H71	2.28	0.63
11:AB:795:DT:C2'	11:AB:796:DT:H71	2.28	0.63
11:AB:974:DT:C2'	11:AB:975:DT:H71	2.28	0.63
11:AB:1201:DA:H2''	11:AB:1202:DT:H71	1.80	0.63
11:AB:1421:DT:C2'	11:AB:1422:DT:H71	2.28	0.63
11:AB:1462:DT:C2'	11:AB:1463:DT:H71	2.28	0.63
11:AB:1778:DT:C2'	11:AB:1779:DT:H71	2.28	0.63
11:AB:1831:DT:C2'	11:AB:1832:DT:H71	2.28	0.63
11:AB:2016:DT:C2'	11:AB:2017:DT:H71	2.28	0.63
11:AB:2097:DT:C2'	11:AB:2098:DT:H71	2.28	0.63
11:AB:2246:DA:H2''	11:AB:2247:DT:H71	1.80	0.63
11:AB:2348:DT:C2'	11:AB:2349:DT:H71	2.28	0.63
11:AB:2426:DT:C2'	11:AB:2427:DT:H71	2.28	0.63
11:AB:2542:DT:C2'	11:AB:2543:DT:H71	2.28	0.63
11:AB:2547:DT:C2'	11:AB:2548:DT:H71	2.28	0.63
11:AB:2680:DT:C2'	11:AB:2681:DT:H71	2.28	0.63
11:AB:2768:DT:C2'	11:AB:2769:DT:H71	2.28	0.63
11:AB:3045:DT:C2'	11:AB:3046:DT:H71	2.28	0.63
11:AB:3241:DT:C2'	11:AB:3242:DT:H71	2.28	0.63
11:AB:3349:DT:C2'	11:AB:3350:DT:H71	2.28	0.63
11:AB:3366:DT:C2'	11:AB:3367:DT:H71	2.28	0.63
11:AB:3403:DT:C2'	11:AB:3404:DT:H71	2.28	0.63
11:AB:4169:DT:C2'	11:AB:4170:DT:H71	2.28	0.63
11:AB:4223:DT:C2'	11:AB:4224:DT:H71	2.28	0.63
11:AB:4244:DT:C2'	11:AB:4245:DT:H71	2.28	0.63
11:AB:4409:DT:C2'	11:AB:4410:DT:H71	2.28	0.63
11:AB:4613:DT:C2'	11:AB:4614:DT:H71	2.28	0.63
11:AB:4720:DT:C2'	11:AB:4721:DT:H71	2.28	0.63
11:AB:5180:DT:C2'	11:AB:5181:DT:H71	2.28	0.63
11:AB:5542:DT:C2'	11:AB:5543:DT:H71	2.28	0.63
11:AB:5581:DT:C2'	11:AB:5582:DT:H71	2.28	0.63
11:AB:5661:DT:C2'	11:AB:5662:DT:H71	2.28	0.63
11:AB:5745:DT:C2'	11:AB:5746:DT:H71	2.28	0.63
11:AB:5809:DT:C2'	11:AB:5810:DT:H71	2.28	0.63
11:AB:6225:DT:C2'	11:AB:6226:DT:H71	2.28	0.63
11:AB:6423:DT:C2'	11:AB:6424:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6524:DT:C2'	11:AB:6525:DT:H71	2.28	0.63
11:AB:6699:DT:C2'	11:AB:6700:DT:H71	2.28	0.63
11:AB:6737:DT:C2'	11:AB:6738:DT:H71	2.28	0.63
11:AB:6970:DA:H2''	11:AB:6971:DT:H71	1.80	0.63
11:AB:7132:DT:C2'	11:AB:7133:DT:H71	2.28	0.63
18:B5:35:DT:C2'	18:B5:36:DT:H71	2.28	0.63
30:C6:15:DT:H71	43:D8:42:DT:C2'	2.28	0.63
33:C9:26:DT:C2'	33:C9:27:DT:H71	2.28	0.63
36:CD:8:DT:H71	69:FD:7:DA:H2''	1.80	0.63
39:D3:1:DT:H71	204:T3:45:DT:C2'	2.28	0.63
49:E2:22:DT:C2'	49:E2:23:DT:H71	2.28	0.63
50:E3:14:DA:H2''	181:Q9:33:DT:H71	1.80	0.63
54:E8:16:DA:H2''	109:J8:22:DT:H71	1.80	0.63
55:E9:5:DT:C2'	55:E9:6:DT:H71	2.28	0.63
60:F2:31:DT:C2'	60:F2:32:DT:H71	2.28	0.63
69:FD:35:DA:H2''	69:FD:36:DT:H71	1.80	0.63
91:HD:9:DT:C2'	91:HD:10:DT:H71	2.28	0.63
92:I1:9:DA:H2''	92:I1:10:DT:H71	1.80	0.63
94:I3:53:DT:C2'	94:I3:54:DT:H71	2.28	0.63
105:J3:20:DT:C2'	130:L7:50:DT:H71	2.28	0.63
105:J3:21:DT:H71	130:L7:49:DT:C2'	2.28	0.63
125:L1:22:DT:H71	195:S3:21:DA:H2''	1.80	0.63
132:L9:7:DA:H2''	132:L9:8:DT:H71	1.80	0.63
133:LA:9:DT:C2'	133:LA:10:DT:H71	2.28	0.63
141:M8:29:DT:C2'	141:M8:30:DT:H71	2.28	0.63
144:MC:20:DT:C2'	144:MC:21:DT:H71	2.28	0.63
154:NC:18:DT:H71	189:R8:21:DT:C2'	2.28	0.63
159:O6:14:DT:C2'	159:O6:15:DT:H71	2.28	0.63
161:O8:47:DT:C2'	161:O8:48:DT:H71	2.28	0.63
166:P2:15:DT:C2'	166:P2:16:DT:H71	2.28	0.63
176:Q2:16:DT:C2'	176:Q2:17:DT:H71	2.28	0.63
184:QD:11:DT:C2'	184:QD:12:DT:H71	2.28	0.63
221:V2:17:DT:C2'	221:V2:18:DT:H71	2.28	0.63
231:W5:26:DT:C2'	231:W5:27:DT:H71	2.28	0.63
238:X9:45:DA:H2''	238:X9:46:DT:H71	1.80	0.63
238:X9:46:DT:C2'	238:X9:47:DT:H71	2.28	0.63
1:A1:18:DT:C2'	1:A1:19:DT:H71	2.28	0.63
2:A2:16:DT:C2'	2:A2:17:DT:H71	2.28	0.63
4:A4:26:DT:C2'	4:A4:27:DT:H71	2.28	0.63
9:A9:2:DT:C2'	9:A9:3:DT:H71	2.28	0.63
9:A9:15:DT:C2'	9:A9:16:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:23:DA:H2''	11:AB:24:DT:H71	1.80	0.63
11:AB:66:DT:C2'	11:AB:67:DT:H71	2.28	0.63
11:AB:108:DT:C2'	11:AB:109:DT:H71	2.28	0.63
11:AB:121:DT:C2'	11:AB:122:DT:H71	2.28	0.63
11:AB:143:DT:C2'	11:AB:144:DT:H71	2.28	0.63
11:AB:493:DT:C2'	11:AB:494:DT:H71	2.28	0.63
11:AB:572:DT:C2'	11:AB:573:DT:H71	2.28	0.63
11:AB:698:DT:C2'	11:AB:699:DT:H71	2.28	0.63
11:AB:1121:DT:C2'	11:AB:1122:DT:H71	2.28	0.63
11:AB:1212:DT:C2'	11:AB:1213:DT:H71	2.28	0.63
11:AB:1273:DT:C2'	11:AB:1274:DT:H71	2.28	0.63
11:AB:1463:DT:C2'	11:AB:1464:DT:H71	2.28	0.63
11:AB:1471:DT:C2'	11:AB:1472:DT:H71	2.28	0.63
11:AB:1587:DT:C2'	11:AB:1588:DT:H71	2.28	0.63
11:AB:1665:DA:H2''	11:AB:1666:DT:H71	1.80	0.63
11:AB:1744:DT:C2'	11:AB:1745:DT:H71	2.28	0.63
11:AB:1775:DT:C2'	11:AB:1776:DT:H71	2.28	0.63
11:AB:1878:DT:C2'	11:AB:1879:DT:H71	2.28	0.63
11:AB:1958:DA:H2''	11:AB:1959:DT:H71	1.80	0.63
11:AB:2225:DT:C2'	11:AB:2226:DT:H71	2.28	0.63
11:AB:2257:DT:C2'	11:AB:2258:DT:H71	2.28	0.63
11:AB:2299:DT:C2'	11:AB:2300:DT:H71	2.28	0.63
11:AB:2315:DT:C2'	11:AB:2316:DT:H71	2.28	0.63
11:AB:2393:DT:C2'	11:AB:2394:DT:H71	2.28	0.63
11:AB:2444:DA:H2''	11:AB:2445:DT:H71	1.80	0.63
11:AB:2530:DT:C2'	11:AB:2531:DT:H71	2.28	0.63
11:AB:2634:DT:C2'	11:AB:2635:DT:H71	2.28	0.63
11:AB:2721:DT:C2'	11:AB:2722:DT:H71	2.28	0.63
11:AB:2752:DT:C2'	11:AB:2753:DT:H71	2.28	0.63
11:AB:2756:DT:C2'	11:AB:2757:DT:H71	2.28	0.63
11:AB:2891:DT:C2'	11:AB:2892:DT:H71	2.28	0.63
11:AB:2904:DT:C2'	11:AB:2905:DT:H71	2.28	0.63
11:AB:2930:DT:C2'	11:AB:2931:DT:H71	2.28	0.63
11:AB:3059:DT:C2'	11:AB:3060:DT:H71	2.28	0.63
11:AB:3200:DT:C2'	11:AB:3201:DT:H71	2.28	0.63
11:AB:3233:DT:C2'	11:AB:3234:DT:H71	2.28	0.63
11:AB:3396:DT:C2'	11:AB:3397:DT:H71	2.28	0.63
11:AB:3402:DA:H2''	11:AB:3403:DT:H71	1.80	0.63
11:AB:3440:DT:C2'	11:AB:3441:DT:H71	2.28	0.63
11:AB:3503:DT:C2'	11:AB:3504:DT:H71	2.28	0.63
11:AB:3536:DT:C2'	11:AB:3537:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3550:DT:C2'	11:AB:3551:DT:H71	2.28	0.63
11:AB:3598:DT:C2'	11:AB:3599:DT:H71	2.28	0.63
11:AB:3819:DT:C2'	11:AB:3820:DT:H71	2.28	0.63
11:AB:3961:DT:C2'	11:AB:3962:DT:H71	2.28	0.63
11:AB:3978:DT:C2'	11:AB:3979:DT:H71	2.28	0.63
11:AB:4152:DT:H71	11:AB:4319:DT:C2'	2.28	0.63
11:AB:4157:DT:C2'	11:AB:4158:DT:H71	2.28	0.63
11:AB:4190:DT:C2'	11:AB:4191:DT:H71	2.28	0.63
11:AB:4316:DT:C2'	11:AB:4317:DT:H71	2.28	0.63
11:AB:4458:DT:C2'	11:AB:4459:DT:H71	2.28	0.63
11:AB:4738:DA:H2''	11:AB:4739:DT:H71	1.80	0.63
11:AB:5125:DT:C2'	11:AB:5126:DT:H71	2.28	0.63
11:AB:5206:DT:C2'	11:AB:5207:DT:H71	2.28	0.63
11:AB:5348:DT:C2'	11:AB:5349:DT:H71	2.28	0.63
11:AB:5417:DA:H2''	11:AB:5418:DT:H71	1.80	0.63
11:AB:5423:DT:C2'	11:AB:5424:DT:H71	2.28	0.63
11:AB:5752:DT:C2'	11:AB:5753:DT:H71	2.28	0.63
11:AB:5766:DT:C2'	11:AB:5767:DT:H71	2.28	0.63
11:AB:5856:DT:C2'	11:AB:5857:DT:H71	2.28	0.63
11:AB:6020:DT:C2'	11:AB:6021:DT:H71	2.28	0.63
11:AB:6094:DT:C2'	11:AB:6095:DT:H71	2.28	0.63
11:AB:6197:DT:C2'	11:AB:6198:DT:H71	2.28	0.63
11:AB:6204:DT:C2'	11:AB:6205:DT:H71	2.28	0.63
11:AB:6282:DT:C2'	11:AB:6283:DT:H71	2.28	0.63
11:AB:6366:DT:C2'	11:AB:6367:DT:H71	2.28	0.63
11:AB:6368:DT:C2'	11:AB:6369:DT:H71	2.28	0.63
11:AB:6393:DT:C2'	11:AB:6394:DT:H71	2.28	0.63
11:AB:6635:DT:C2'	11:AB:6636:DT:H71	2.28	0.63
11:AB:6761:DT:C2'	11:AB:6762:DT:H71	2.28	0.63
11:AB:6766:DT:C2'	11:AB:6767:DT:H71	2.28	0.63
11:AB:6770:DT:C2'	11:AB:6771:DT:H71	2.28	0.63
33:C9:25:DA:H2''	33:C9:26:DT:H71	1.80	0.63
41:D6:37:DT:C2'	41:D6:38:DT:H71	2.28	0.63
41:D6:39:DT:C2'	41:D6:40:DT:H71	2.28	0.63
57:EC:6:DT:C2'	57:EC:7:DT:H71	2.28	0.63
61:F3:14:DA:H2''	220:UD:17:DT:H71	1.80	0.63
62:F5:30:DT:C2'	62:F5:31:DT:H71	2.28	0.63
62:F5:44:DT:C2'	62:F5:45:DT:H71	2.28	0.63
81:H1:21:DT:C2'	81:H1:22:DT:H71	2.28	0.63
91:HD:13:DT:C2'	91:HD:14:DT:H71	2.28	0.63
95:I5:4:DT:C2'	95:I5:5:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
96:I6:8:DT:C2'	96:I6:9:DT:H71	2.28	0.63
97:I7:12:DT:C2'	97:I7:13:DT:H71	2.28	0.63
103:J1:27:DT:C2'	103:J1:28:DT:H71	2.28	0.63
105:J3:12:DT:C2'	105:J3:13:DT:H71	2.28	0.63
109:J8:22:DT:C2'	109:J8:23:DT:H71	2.28	0.63
122:KA:36:DT:C2'	122:KA:37:DT:H71	2.28	0.63
123:KC:27:DT:C2'	123:KC:28:DT:H71	2.28	0.63
126:L2:21:DT:C2'	126:L2:22:DT:H71	2.28	0.63
138:M5:9:DT:C2'	138:M5:10:DT:H71	2.28	0.63
138:M5:11:DT:C2'	138:M5:12:DT:H71	2.28	0.63
154:NC:12:DT:C2'	154:NC:13:DT:H71	2.28	0.63
154:NC:15:DT:C2'	154:NC:16:DT:H71	2.28	0.63
155:ND:11:DT:C2'	155:ND:12:DT:H71	2.28	0.63
165:OD:57:DT:C2'	165:OD:58:DT:H71	2.28	0.63
166:P2:17:DT:C2'	166:P2:18:DT:H71	2.28	0.63
171:P8:23:DT:C2'	171:P8:24:DT:H71	2.28	0.63
172:P9:10:DT:C2'	172:P9:11:DT:H71	2.28	0.63
173:PA:22:DT:C2'	173:PA:23:DT:H71	2.28	0.63
178:Q5:18:DT:C2'	178:Q5:19:DT:H71	2.28	0.63
178:Q5:20:DT:C2'	178:Q5:21:DT:H71	2.28	0.63
181:Q9:10:DT:C2'	181:Q9:11:DT:H71	2.28	0.63
187:R5:15:DT:H71	223:V5:34:DT:C2'	2.28	0.63
193:RD:17:DT:C2'	193:RD:18:DT:H71	2.28	0.63
194:S2:27:DT:C2'	194:S2:28:DT:H71	2.28	0.63
200:SA:9:DA:H2''	200:SA:10:DT:H71	1.80	0.63
217:U9:13:DT:C2'	217:U9:14:DT:H71	2.28	0.63
218:UA:1:DT:C2'	218:UA:2:DT:H71	2.28	0.63
235:WD:19:DT:C2'	235:WD:20:DT:H71	2.28	0.63
236:X5:15:DT:C2'	236:X5:16:DT:H71	2.28	0.63
2:A2:28:DT:C2'	2:A2:29:DT:H71	2.28	0.63
4:A4:28:DT:C2'	4:A4:29:DT:H71	2.28	0.63
9:A9:4:DT:C2'	9:A9:5:DT:H71	2.28	0.63
11:AB:27:DT:C2'	11:AB:28:DT:H71	2.28	0.63
11:AB:74:DT:C2'	11:AB:75:DT:H71	2.28	0.63
11:AB:132:DT:C2'	11:AB:133:DT:H71	2.28	0.63
11:AB:388:DT:C2'	11:AB:389:DT:H71	2.28	0.63
11:AB:783:DT:C2'	11:AB:784:DT:H71	2.28	0.63
11:AB:799:DT:C2'	11:AB:800:DT:H71	2.28	0.63
11:AB:1107:DT:C2'	11:AB:1108:DT:H71	2.28	0.63
11:AB:1309:DT:C2'	11:AB:1310:DT:H71	2.28	0.63
11:AB:1332:DT:C2'	11:AB:1333:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1350:DT:C2'	11:AB:1351:DT:H71	2.28	0.63
11:AB:1437:DT:C2'	11:AB:1438:DT:H71	2.28	0.63
11:AB:1487:DT:C2'	11:AB:1488:DT:H71	2.28	0.63
11:AB:1632:DT:C2'	11:AB:1633:DT:H71	2.28	0.63
11:AB:1747:DT:C2'	11:AB:1748:DT:H71	2.28	0.63
11:AB:1779:DT:C2'	11:AB:1780:DT:H71	2.28	0.63
11:AB:1822:DT:C2'	11:AB:1823:DT:H71	2.28	0.63
11:AB:2042:DT:C2'	11:AB:2043:DT:H71	2.28	0.63
11:AB:2047:DT:C2'	11:AB:2048:DT:H71	2.28	0.63
11:AB:2226:DT:C2'	11:AB:2227:DT:H71	2.28	0.63
11:AB:2396:DT:C2'	11:AB:2397:DT:H71	2.28	0.63
11:AB:2459:DT:C2'	11:AB:2460:DT:H71	2.28	0.63
11:AB:2469:DT:C2'	11:AB:2470:DT:H71	2.28	0.63
11:AB:2548:DT:C2'	11:AB:2549:DT:H71	2.28	0.63
11:AB:2624:DT:C2'	11:AB:2625:DT:H71	2.28	0.63
11:AB:2773:DT:C2'	11:AB:2774:DT:H71	2.28	0.63
11:AB:2903:DA:H2''	11:AB:2904:DT:H71	1.81	0.63
11:AB:2933:DT:C2'	11:AB:2934:DT:H71	2.28	0.63
11:AB:3385:DT:C2'	11:AB:3386:DT:H71	2.28	0.63
11:AB:3427:DT:C2'	11:AB:3428:DT:H71	2.28	0.63
11:AB:3668:DT:C2'	11:AB:3669:DT:H71	2.28	0.63
11:AB:4713:DT:C2'	11:AB:4714:DT:H71	2.28	0.63
11:AB:4714:DT:C2'	11:AB:4715:DT:H71	2.28	0.63
11:AB:4768:DT:C2'	11:AB:4769:DT:H71	2.28	0.63
11:AB:5022:DT:C2'	11:AB:5023:DT:H71	2.28	0.63
11:AB:5223:DT:C2'	11:AB:5224:DT:H71	2.28	0.63
11:AB:5265:DT:C2'	11:AB:5266:DT:H71	2.28	0.63
11:AB:5280:DT:C2'	11:AB:5281:DT:H71	2.28	0.63
11:AB:5290:DT:C2'	11:AB:5291:DT:H71	2.28	0.63
11:AB:5330:DT:C2'	11:AB:5331:DT:H71	2.28	0.63
11:AB:5341:DT:C2'	11:AB:5342:DT:H71	2.28	0.63
11:AB:5362:DT:C2'	11:AB:5363:DT:H71	2.28	0.63
11:AB:5558:DT:C2'	11:AB:5559:DT:H71	2.28	0.63
11:AB:5616:DT:C2'	11:AB:5617:DT:H71	2.28	0.63
11:AB:5644:DT:C2'	11:AB:5645:DT:H71	2.28	0.63
11:AB:5729:DT:C2'	11:AB:5730:DT:H71	2.28	0.63
11:AB:5943:DT:C2'	11:AB:5944:DT:H71	2.28	0.63
11:AB:6009:DT:C2'	11:AB:6010:DT:H71	2.28	0.63
11:AB:6033:DT:C2'	11:AB:6034:DT:H71	2.28	0.63
11:AB:6148:DT:C2'	11:AB:6149:DT:H71	2.28	0.63
11:AB:6175:DT:C2'	11:AB:6176:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6191:DT:C2'	11:AB:6192:DT:H71	2.28	0.63
11:AB:6292:DT:C2'	11:AB:6293:DT:H71	2.28	0.63
11:AB:6293:DT:C2'	11:AB:6294:DT:H71	2.28	0.63
11:AB:6323:DT:C2'	11:AB:6324:DT:H71	2.28	0.63
11:AB:6333:DT:C2'	11:AB:6334:DT:H71	2.28	0.63
11:AB:6374:DT:C2'	11:AB:6375:DT:H71	2.28	0.63
11:AB:6603:DT:C2'	11:AB:6604:DT:H71	2.28	0.63
11:AB:6710:DT:C2'	11:AB:6711:DT:H71	2.28	0.63
11:AB:6850:DT:C2'	11:AB:6851:DT:H71	2.28	0.63
11:AB:7075:DT:C2'	11:AB:7076:DT:H71	2.28	0.63
11:AB:7104:DT:C2'	11:AB:7105:DT:H71	2.28	0.63
11:AB:7158:DT:C2'	11:AB:7159:DT:H71	2.28	0.63
21:B8:4:DT:C2'	21:B8:5:DT:H71	2.28	0.63
22:B9:18:DT:C2'	22:B9:19:DT:H71	2.28	0.63
32:C8:49:DT:C2'	32:C8:50:DT:H71	2.28	0.63
32:C8:50:DT:C2'	32:C8:51:DT:H71	2.28	0.63
43:D8:11:DT:C2'	43:D8:12:DT:H71	2.28	0.63
53:E7:5:DT:C2'	53:E7:6:DT:H71	2.28	0.63
54:E8:24:DT:C2'	54:E8:25:DT:H71	2.28	0.63
56:EA:13:DT:C2'	56:EA:14:DT:H71	2.28	0.63
60:F2:8:DT:C2'	60:F2:9:DT:H71	2.28	0.63
60:F2:30:DT:C2'	60:F2:31:DT:H71	2.28	0.63
62:F5:8:DT:C2'	62:F5:9:DT:H71	2.28	0.63
62:F5:28:DT:C2'	62:F5:29:DT:H71	2.28	0.63
77:G9:2:DT:C2'	77:G9:3:DT:H71	2.28	0.63
82:H2:10:DT:C2'	82:H2:11:DT:H71	2.28	0.63
82:H2:45:DT:C2'	82:H2:46:DT:H71	2.28	0.63
95:I5:5:DT:C2'	95:I5:6:DT:H71	2.28	0.63
117:K5:37:DT:C2'	117:K5:38:DT:H71	2.28	0.63
125:L1:22:DT:C2'	125:L1:23:DT:H71	2.28	0.63
126:L2:10:DT:C2'	126:L2:11:DT:H71	2.28	0.63
136:M2:11:DT:C2'	136:M2:12:DT:H71	2.28	0.63
136:M2:12:DT:C2'	136:M2:13:DT:H71	2.28	0.63
141:M8:11:DT:C2'	141:M8:12:DT:H71	2.28	0.63
144:MC:15:DT:C2'	144:MC:16:DT:H71	2.28	0.63
145:MD:34:DT:C2'	145:MD:35:DT:H71	2.28	0.63
160:O7:23:DT:C2'	160:O7:24:DT:H71	2.28	0.63
160:O7:24:DT:C2'	160:O7:25:DT:H71	2.28	0.63
171:P8:18:DT:C2'	171:P8:19:DT:H71	2.28	0.63
171:P8:21:DT:C2'	171:P8:22:DT:H71	2.28	0.63
177:Q3:11:DT:C2'	177:Q3:12:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
179:Q7:10:DT:C2'	179:Q7:11:DT:H71	2.28	0.63
181:Q9:8:DT:C2'	181:Q9:9:DT:H71	2.28	0.63
183:QC:25:DT:C2'	183:QC:26:DT:H71	2.28	0.63
184:QD:12:DT:C2'	184:QD:13:DT:H71	2.28	0.63
190:R9:36:DT:C2'	190:R9:37:DT:H71	2.28	0.63
191:RA:18:DT:C2'	191:RA:19:DT:H71	2.28	0.63
192:RC:31:DT:C2'	192:RC:32:DT:H71	2.28	0.63
194:S2:8:DT:C2'	194:S2:9:DT:H71	2.28	0.63
195:S3:12:DT:C2'	195:S3:13:DT:H71	2.28	0.63
204:T3:11:DT:C2'	204:T3:12:DT:H71	2.28	0.63
211:TD:5:DT:C2'	211:TD:6:DT:H71	2.28	0.63
211:TD:18:DT:C2'	211:TD:19:DT:H71	2.28	0.63
230:W3:11:DT:C2'	230:W3:12:DT:H71	2.28	0.63
230:W3:25:DT:C2'	230:W3:26:DT:H71	2.28	0.63
232:W7:10:DT:C2'	232:W7:11:DT:H71	2.28	0.63
4:A4:29:DT:C2'	4:A4:30:DT:H71	2.28	0.63
11:AB:248:DT:C2'	11:AB:249:DT:H71	2.28	0.63
11:AB:610:DT:C2'	11:AB:611:DT:H71	2.28	0.63
11:AB:770:DT:C2'	11:AB:771:DT:H71	2.28	0.63
11:AB:1205:DT:C2'	11:AB:1206:DT:H71	2.28	0.63
11:AB:1345:DT:C2'	11:AB:1346:DT:H71	2.28	0.63
11:AB:1385:DT:C2'	11:AB:1386:DT:H71	2.28	0.63
11:AB:1635:DT:C2'	11:AB:1636:DT:H71	2.28	0.63
11:AB:1653:DT:C2'	11:AB:1654:DT:H71	2.28	0.63
11:AB:1843:DT:C2'	11:AB:1844:DT:H71	2.28	0.63
11:AB:1873:DT:C2'	11:AB:1874:DT:H71	2.28	0.63
11:AB:2057:DT:C2'	11:AB:5778:DT:H71	2.28	0.63
11:AB:2423:DT:C2'	11:AB:2424:DT:H71	2.28	0.63
11:AB:2438:DT:C2'	11:AB:2439:DT:H71	2.28	0.63
11:AB:2474:DT:C2'	11:AB:2475:DT:H71	2.28	0.63
11:AB:2735:DT:C2'	11:AB:2736:DT:H71	2.28	0.63
11:AB:2820:DT:C2'	11:AB:2821:DT:H71	2.28	0.63
11:AB:2847:DT:C2'	11:AB:2848:DT:H71	2.28	0.63
11:AB:3009:DT:C2'	11:AB:3010:DT:H71	2.28	0.63
11:AB:3090:DT:C2'	11:AB:3091:DT:H71	2.28	0.63
11:AB:3095:DT:C2'	11:AB:3096:DT:H71	2.28	0.63
11:AB:3192:DT:C2'	11:AB:3193:DT:H71	2.28	0.63
11:AB:3223:DT:C2'	11:AB:3224:DT:H71	2.28	0.63
11:AB:3244:DT:C2'	11:AB:3245:DT:H71	2.28	0.63
11:AB:3439:DT:C2'	11:AB:3440:DT:H71	2.28	0.63
11:AB:3571:DT:C2'	11:AB:3572:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3716:DT:C2'	11:AB:3717:DT:H71	2.28	0.63
11:AB:3747:DT:C2'	11:AB:3748:DT:H71	2.28	0.63
11:AB:3905:DT:C2'	11:AB:3906:DT:H71	2.28	0.63
11:AB:3979:DT:C2'	11:AB:3980:DT:H71	2.28	0.63
11:AB:3994:DT:C2'	11:AB:3995:DT:H71	2.28	0.63
11:AB:4235:DT:C2'	11:AB:4236:DT:H71	2.28	0.63
11:AB:4274:DT:C2'	11:AB:4275:DT:H71	2.28	0.63
11:AB:4326:DT:C2'	11:AB:4327:DT:H71	2.28	0.63
11:AB:4698:DT:C2'	11:AB:4699:DT:H71	2.28	0.63
11:AB:4804:DT:C2'	11:AB:4805:DT:H71	2.28	0.63
11:AB:5383:DT:C2'	11:AB:5384:DT:H71	2.28	0.63
11:AB:5670:DT:C2'	11:AB:5671:DT:H71	2.28	0.63
11:AB:5673:DT:C2'	11:AB:5674:DT:H71	2.28	0.63
11:AB:5780:DT:C2'	11:AB:5781:DT:H71	2.28	0.63
11:AB:5982:DT:C2'	11:AB:5983:DT:H71	2.28	0.63
11:AB:6038:DT:C2'	11:AB:6039:DT:H71	2.28	0.63
11:AB:6046:DT:C2'	11:AB:6047:DT:H71	2.28	0.63
11:AB:6078:DT:C2'	11:AB:6079:DT:H71	2.28	0.63
11:AB:6127:DT:C2'	11:AB:6128:DT:H71	2.28	0.63
11:AB:6143:DT:C2'	11:AB:6144:DT:H71	2.28	0.63
11:AB:6302:DT:C2'	11:AB:6303:DT:H71	2.28	0.63
11:AB:6450:DT:C2'	11:AB:6451:DT:H71	2.28	0.63
11:AB:6889:DT:C2'	11:AB:6890:DT:H71	2.28	0.63
11:AB:6895:DT:C2'	11:AB:6896:DT:H71	2.28	0.63
11:AB:6913:DT:C2'	11:AB:6914:DT:H71	2.28	0.63
11:AB:7033:DT:C2'	11:AB:7034:DT:H71	2.28	0.63
11:AB:7048:DT:C2'	11:AB:7049:DT:H71	2.28	0.63
11:AB:7087:DT:C2'	11:AB:7088:DT:H71	2.28	0.63
11:AB:7096:DT:C2'	11:AB:7097:DT:H71	2.28	0.63
13:AD:35:DT:C2'	13:AD:36:DT:H71	2.28	0.63
18:B5:18:DT:C2'	18:B5:19:DT:H71	2.28	0.63
20:B7:15:DT:C2'	20:B7:16:DT:H71	2.28	0.63
31:C7:28:DT:C2'	31:C7:29:DT:H71	2.28	0.63
39:D3:22:DT:C2'	39:D3:23:DT:H71	2.28	0.63
40:D5:21:DT:C2'	40:D5:22:DT:H71	2.28	0.63
41:D6:40:DT:C2'	41:D6:41:DT:H71	2.28	0.63
55:E9:32:DT:C2'	55:E9:33:DT:H71	2.28	0.63
67:FA:23:DT:C2'	67:FA:24:DT:H71	2.28	0.63
78:GA:9:DT:C2'	78:GA:10:DT:H71	2.28	0.63
81:H1:18:DT:C2'	81:H1:19:DT:H71	2.28	0.63
83:H3:17:DT:C2'	83:H3:18:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:H7:17:DT:C2'	86:H7:18:DT:H71	2.28	0.63
89:HA:15:DT:C2'	89:HA:16:DT:H71	2.28	0.63
94:I3:41:DT:C2'	94:I3:42:DT:H71	2.28	0.63
104:J2:19:DT:C2'	104:J2:20:DT:H71	2.28	0.63
114:K1:40:DT:C2'	114:K1:41:DT:H71	2.28	0.63
115:K2:6:DT:C2'	115:K2:7:DT:H71	2.28	0.63
123:KC:14:DT:C2'	123:KC:15:DT:H71	2.28	0.63
124:KD:21:DT:C2'	124:KD:22:DT:H71	2.28	0.63
125:L1:30:DT:C2'	125:L1:31:DT:H71	2.28	0.63
129:L6:7:DT:C2'	129:L6:8:DT:H71	2.28	0.63
133:LA:8:DT:C2'	133:LA:9:DT:H71	2.28	0.63
149:N6:4:DT:C2'	149:N6:5:DT:H71	2.28	0.63
167:P3:13:DT:C2'	167:P3:14:DT:H71	2.28	0.63
172:P9:5:DT:C2'	172:P9:6:DT:H71	2.28	0.63
172:P9:13:DT:C2'	172:P9:14:DT:H71	2.28	0.63
173:PA:16:DT:C2'	173:PA:17:DT:H71	2.28	0.63
192:RC:17:DT:C2'	192:RC:18:DT:H71	2.28	0.63
202:SD:28:DT:C2'	202:SD:29:DT:H71	2.28	0.63
211:TD:6:DT:C2'	211:TD:7:DT:H71	2.28	0.63
214:U5:19:DT:C2'	214:U5:20:DT:H71	2.28	0.63
215:U7:16:DT:C2'	215:U7:17:DT:H71	2.28	0.63
218:UA:3:DT:C2'	218:UA:4:DT:H71	2.28	0.63
219:UC:9:DT:C2'	219:UC:10:DT:H71	2.28	0.63
220:UD:11:DT:C2'	220:UD:12:DT:H71	2.28	0.63
221:V2:16:DT:C2'	221:V2:17:DT:H71	2.28	0.63
221:V2:22:DT:C2'	221:V2:23:DT:H71	2.28	0.63
222:V3:7:DT:C2'	222:V3:8:DT:H71	2.28	0.63
224:V7:18:DT:C2'	224:V7:19:DT:H71	2.28	0.63
233:W8:6:DT:C2'	233:W8:7:DT:H71	2.28	0.63
8:A8:12:DT:C2'	8:A8:13:DT:H71	2.28	0.63
11:AB:119:DT:C2'	11:AB:120:DT:H71	2.28	0.63
11:AB:224:DT:C2'	11:AB:225:DT:H71	2.28	0.63
11:AB:577:DT:C2'	11:AB:578:DT:H71	2.28	0.63
11:AB:1066:DT:C2'	11:AB:1067:DT:H71	2.28	0.63
11:AB:1384:DT:C2'	11:AB:1385:DT:H71	2.28	0.63
11:AB:1619:DT:C2'	11:AB:1620:DT:H71	2.28	0.63
11:AB:1681:DT:C2'	11:AB:1682:DT:H71	2.28	0.63
11:AB:1683:DA:H2''	11:AB:1684:DT:H71	1.80	0.63
11:AB:2023:DT:C2'	11:AB:2024:DT:H71	2.28	0.63
11:AB:2115:DT:C2'	11:AB:2116:DT:H71	2.28	0.63
11:AB:2131:DT:C2'	11:AB:2132:DT:H71	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2221:DT:C2'	11:AB:2222:DT:H71	2.28	0.63
11:AB:2967:DT:C2'	11:AB:2968:DT:H71	2.28	0.63
11:AB:3000:DT:C2'	11:AB:3001:DT:H71	2.28	0.63
11:AB:3030:DT:C2'	11:AB:3031:DT:H71	2.28	0.63
11:AB:3678:DT:C2'	11:AB:4519:DT:H71	2.28	0.63
11:AB:4101:DT:C2'	11:AB:4102:DT:H71	2.28	0.63
11:AB:4905:DT:C2'	11:AB:4906:DT:H71	2.28	0.63
11:AB:5598:DT:C2'	11:AB:5599:DT:H71	2.28	0.63
11:AB:5639:DT:C2'	11:AB:5640:DT:H71	2.28	0.63
11:AB:5819:DT:C2'	11:AB:5820:DT:H71	2.28	0.63
11:AB:6220:DT:C2'	11:AB:6221:DT:H71	2.28	0.63
11:AB:6508:DT:C2'	11:AB:6509:DT:H71	2.28	0.63
11:AB:6598:DT:C2'	11:AB:6599:DT:H71	2.28	0.63
14:B1:11:DT:C2'	14:B1:12:DT:H71	2.28	0.63
23:BA:25:DT:C2'	23:BA:26:DT:H71	2.28	0.63
36:CD:16:DT:C2'	36:CD:17:DT:H71	2.28	0.63
42:D7:5:DT:C2'	42:D7:6:DT:H71	2.28	0.63
49:E2:25:DT:C2'	49:E2:26:DT:H71	2.28	0.63
54:E8:12:DT:C2'	54:E8:13:DT:H71	2.28	0.63
86:H7:8:DT:C2'	86:H7:9:DT:H71	2.28	0.63
105:J3:17:DT:C2'	105:J3:18:DT:H71	2.28	0.63
115:K2:32:DT:C2'	115:K2:33:DT:H71	2.28	0.63
129:L6:19:DT:C2'	129:L6:20:DT:H71	2.28	0.63
151:N8:13:DT:C2'	151:N8:14:DT:H71	2.28	0.63
166:P2:14:DT:C2'	166:P2:15:DT:H71	2.28	0.63
201:SC:3:DT:C2'	201:SC:4:DT:H71	2.28	0.63
231:W5:29:DT:C2'	231:W5:30:DT:H71	2.28	0.63
1:A1:12:DA:H2''	18:B5:1:DT:H71	1.80	0.62
11:AB:1156:DA:H2''	11:AB:1157:DT:H71	1.80	0.62
11:AB:1271:DT:C2'	11:AB:1272:DT:H71	2.28	0.62
11:AB:1454:DT:C2'	11:AB:1455:DT:H71	2.28	0.62
11:AB:1678:DT:C2'	11:AB:1679:DT:H71	2.28	0.62
11:AB:1911:DT:C2'	11:AB:1912:DT:H71	2.28	0.62
11:AB:2093:DT:C2'	11:AB:2094:DT:H71	2.28	0.62
11:AB:2322:DT:C2'	11:AB:2323:DT:H71	2.28	0.62
11:AB:2440:DA:H2''	11:AB:2441:DT:H71	1.80	0.62
11:AB:2641:DT:C2'	11:AB:2642:DT:H71	2.28	0.62
11:AB:2874:DT:C2'	11:AB:2875:DT:H71	2.28	0.62
11:AB:3008:DT:C2'	11:AB:3009:DT:H71	2.28	0.62
11:AB:3103:DT:C2'	11:AB:3104:DT:H71	2.28	0.62
11:AB:3354:DT:C2'	11:AB:3355:DT:H71	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3624:DT:C2'	11:AB:3625:DT:H71	2.28	0.62
11:AB:4407:DT:C2'	11:AB:4408:DT:H71	2.28	0.62
11:AB:4617:DT:C2'	11:AB:4618:DT:H71	2.28	0.62
11:AB:5222:DT:C2'	11:AB:5223:DT:H71	2.28	0.62
11:AB:5500:DT:C2'	11:AB:5501:DT:H71	2.28	0.62
11:AB:6174:DT:C2'	11:AB:6175:DT:H71	2.28	0.62
11:AB:6301:DT:C2'	11:AB:6302:DT:H71	2.28	0.62
11:AB:6487:DT:C2'	11:AB:6488:DT:H71	2.28	0.62
11:AB:7220:DT:C2'	11:AB:7221:DT:H71	2.28	0.62
13:AD:36:DT:C2'	13:AD:37:DT:H71	2.28	0.62
49:E2:11:DT:C2'	49:E2:12:DT:H71	2.28	0.62
55:E9:34:DA:H2''	238:X9:32:DT:H71	1.80	0.62
77:G9:15:DT:C2'	77:G9:16:DT:H71	2.28	0.62
96:I6:6:DT:C2'	96:I6:7:DT:H71	2.28	0.62
115:K2:22:DT:C2'	115:K2:23:DT:H71	2.28	0.62
119:K7:41:DT:C2'	119:K7:42:DT:H71	2.28	0.62
148:N5:33:DT:C2'	148:N5:34:DT:H71	2.28	0.62
154:NC:16:DT:C2'	154:NC:17:DT:H71	2.28	0.62
167:P3:6:DT:C2'	167:P3:7:DT:H71	2.28	0.62
198:S8:40:DT:C2'	198:S8:41:DT:H71	2.28	0.62
214:U5:39:DT:C2'	214:U5:40:DT:H71	2.28	0.62
11:AB:36:DT:C2'	11:AB:37:DT:H71	2.28	0.62
11:AB:162:DT:C2'	11:AB:163:DT:H71	2.28	0.62
11:AB:176:DT:C2'	11:AB:177:DT:H71	2.28	0.62
11:AB:253:DT:C2'	11:AB:254:DT:H71	2.28	0.62
11:AB:337:DT:C2'	11:AB:338:DT:H71	2.28	0.62
11:AB:652:DT:C2'	11:AB:653:DT:H71	2.28	0.62
11:AB:1159:DT:C2'	11:AB:1160:DT:H71	2.28	0.62
11:AB:1546:DT:C2'	11:AB:1547:DT:H71	2.28	0.62
11:AB:1686:DT:C2'	11:AB:1687:DT:H71	2.28	0.62
11:AB:2570:DT:C2'	11:AB:2571:DT:H71	2.28	0.62
11:AB:2702:DA:H2''	11:AB:2703:DT:H71	1.80	0.62
11:AB:3548:DT:C2'	11:AB:3549:DT:H71	2.28	0.62
11:AB:4414:DT:C2'	11:AB:4415:DT:H71	2.28	0.62
11:AB:5076:DT:C2'	11:AB:5077:DT:H71	2.28	0.62
11:AB:5367:DT:C2'	11:AB:5368:DT:H71	2.28	0.62
11:AB:5437:DT:C2'	11:AB:5438:DT:H71	2.28	0.62
11:AB:5854:DT:C2'	11:AB:5855:DT:H71	2.28	0.62
11:AB:5966:DT:C2'	11:AB:5967:DT:H71	2.28	0.62
11:AB:6398:DT:C2'	11:AB:6399:DT:H71	2.28	0.62
11:AB:6419:DT:C2'	11:AB:6420:DT:H71	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6467:DT:C2'	11:AB:6468:DT:H71	2.28	0.62
11:AB:6983:DT:C2'	11:AB:6984:DT:H71	2.28	0.62
11:AB:7095:DT:C2'	11:AB:7096:DT:H71	2.28	0.62
13:AD:40:DT:C2'	13:AD:41:DT:H71	2.28	0.62
32:C8:51:DT:C2'	32:C8:52:DT:H71	2.28	0.62
52:E6:1:DT:H71	63:F6:13:DA:H2''	1.80	0.62
86:H7:16:DT:C2'	86:H7:17:DT:H71	2.28	0.62
93:I2:27:DT:C2'	93:I2:28:DT:H71	2.28	0.62
129:L6:8:DT:C2'	129:L6:9:DT:H71	2.28	0.62
142:M9:22:DT:C2'	142:M9:23:DT:H71	2.28	0.62
144:MC:17:DT:C2'	144:MC:18:DT:H71	2.28	0.62
161:O8:24:DT:C2'	161:O8:25:DT:H71	2.28	0.62
208:T9:19:DT:C2'	208:T9:20:DT:H71	2.28	0.62
214:U5:24:DT:C2'	214:U5:25:DT:H71	2.28	0.62
230:W3:24:DT:C2'	230:W3:25:DT:H71	2.28	0.62
237:X7:3:DT:C2'	237:X7:4:DT:H71	2.28	0.62
11:AB:120:DT:C2'	11:AB:121:DT:H71	2.28	0.62
11:AB:667:DT:C2'	11:AB:668:DT:H71	2.28	0.62
11:AB:1172:DT:C2'	11:AB:1173:DT:H71	2.28	0.62
11:AB:1236:DT:C2'	11:AB:1237:DT:H71	2.28	0.62
11:AB:1594:DT:C2'	11:AB:1595:DT:H71	2.28	0.62
11:AB:2148:DT:C2'	11:AB:2149:DT:H71	2.28	0.62
11:AB:2362:DA:H2''	11:AB:2363:DT:H71	1.80	0.62
11:AB:3026:DA:H2''	11:AB:3027:DT:H71	1.80	0.62
11:AB:3261:DT:C2'	11:AB:3262:DT:H71	2.28	0.62
11:AB:3311:DT:C2'	11:AB:3312:DT:H71	2.28	0.62
11:AB:3353:DT:C2'	11:AB:3354:DT:H71	2.28	0.62
11:AB:4300:DA:H2''	11:AB:4301:DT:H71	1.80	0.62
11:AB:4432:DA:H2''	11:AB:4433:DT:H71	1.80	0.62
11:AB:4751:DT:C2'	11:AB:4752:DT:H71	2.28	0.62
11:AB:5316:DA:H2''	11:AB:5317:DT:H71	1.80	0.62
11:AB:5570:DT:C2'	11:AB:5571:DT:H71	2.28	0.62
11:AB:5873:DA:H2''	11:AB:5874:DT:H71	1.80	0.62
11:AB:6416:DA:H2''	11:AB:6417:DT:H71	1.80	0.62
11:AB:6495:DT:C2'	11:AB:6496:DT:H71	2.28	0.62
11:AB:6719:DT:C2'	11:AB:6720:DT:H71	2.28	0.62
11:AB:6740:DT:C2'	11:AB:6741:DT:H71	2.28	0.62
11:AB:6891:DA:H2''	11:AB:6892:DT:H71	1.80	0.62
51:E5:20:DA:H2''	51:E5:21:DT:H71	1.80	0.62
53:E7:21:DT:C2'	53:E7:22:DT:H71	2.28	0.62
69:FD:22:DT:H71	225:V8:17:DA:H2''	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:G7:12:DT:H71	104:J2:35:DA:H2''	1.80	0.62
83:H3:3:DT:C2'	83:H3:4:DT:H71	2.28	0.62
84:H5:4:DT:C2'	84:H5:5:DT:H71	2.28	0.62
106:J5:10:DT:C2'	106:J5:11:DT:H71	2.28	0.62
108:J7:13:DT:C2'	108:J7:14:DT:H71	2.28	0.62
115:K2:12:DT:C2'	115:K2:13:DT:H71	2.28	0.62
122:KA:21:DA:H2''	145:MD:45:DT:H71	1.80	0.62
127:L3:6:DT:C2'	127:L3:7:DT:H71	2.28	0.62
157:O3:3:DA:H2''	157:O3:4:DT:H71	1.80	0.62
178:Q5:31:DT:C2'	178:Q5:32:DT:H71	2.28	0.62
188:R7:26:DT:C2'	188:R7:27:DT:H71	2.28	0.62
192:RC:30:DT:C2'	192:RC:31:DT:H71	2.28	0.62
217:U9:26:DT:C2'	217:U9:27:DT:H71	2.28	0.62
231:W5:9:DT:C2'	231:W5:10:DT:H71	2.28	0.62
8:A8:26:DT:C2'	8:A8:27:DT:H71	2.28	0.62
11:AB:688:DT:C2'	11:AB:689:DT:H71	2.28	0.62
11:AB:1553:DT:C2'	11:AB:1554:DT:H71	2.28	0.62
11:AB:1975:DT:H2''	11:AB:1976:DT:H71	1.82	0.62
11:AB:2180:DA:H2''	11:AB:2181:DT:H71	1.80	0.62
11:AB:3015:DT:C2'	11:AB:3016:DT:H71	2.28	0.62
11:AB:3156:DT:C2'	11:AB:3157:DT:H71	2.28	0.62
11:AB:3479:DT:H2''	11:AB:3480:DT:H71	1.82	0.62
11:AB:4873:DT:C2'	11:AB:4874:DT:H71	2.28	0.62
11:AB:6171:DA:H2''	11:AB:6172:DT:H71	1.81	0.62
11:AB:6259:DT:C2'	11:AB:6260:DT:H71	2.28	0.62
11:AB:6426:DT:C2'	11:AB:6427:DT:H71	2.28	0.62
11:AB:7060:DT:C2'	11:AB:7061:DT:H71	2.28	0.62
12:AC:12:DT:C2'	12:AC:13:DT:H71	2.28	0.62
16:B3:19:DT:C2'	16:B3:20:DT:H71	2.28	0.62
21:B8:27:DT:H2''	149:N6:1:DT:H71	1.82	0.62
55:E9:9:DT:C2'	55:E9:10:DT:H71	2.28	0.62
58:ED:26:DT:C2'	58:ED:27:DT:H71	2.28	0.62
87:H8:6:DT:C2'	87:H8:7:DT:H71	2.28	0.62
108:J7:17:DT:C2'	108:J7:18:DT:H71	2.28	0.62
117:K5:14:DT:C2'	117:K5:15:DT:H71	2.28	0.62
121:K9:16:DT:C2'	121:K9:17:DT:H71	2.28	0.62
135:LD:9:DT:C2'	135:LD:10:DT:H71	2.28	0.62
142:M9:2:DA:H2''	142:M9:3:DT:H71	1.81	0.62
142:M9:12:DT:C2'	142:M9:13:DT:H71	2.28	0.62
142:M9:23:DT:H2''	218:UA:1:DT:H71	1.81	0.62
160:O7:50:DT:C2'	160:O7:51:DT:H71	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
237:X7:10:DT:C2'	237:X7:11:DT:H71	2.28	0.62
237:X7:21:DA:H2''	237:X7:22:DT:H71	1.80	0.62
11:AB:1135:DA:H2''	11:AB:1136:DT:H71	1.81	0.62
11:AB:2429:DT:C2'	11:AB:2430:DT:H71	2.28	0.62
11:AB:2507:DT:C2'	11:AB:2508:DT:H71	2.28	0.62
11:AB:5229:DT:C2'	11:AB:5230:DT:H71	2.28	0.62
11:AB:5395:DT:C2'	11:AB:5396:DT:H71	2.28	0.62
11:AB:5465:DT:C2'	11:AB:5466:DT:H71	2.28	0.62
32:C8:13:DT:C2'	32:C8:14:DT:H71	2.28	0.62
36:CD:21:DA:H2''	36:CD:22:DT:H71	1.81	0.62
184:QD:31:DT:H2''	190:R9:1:DT:H71	1.82	0.62
11:AB:1539:DT:H2''	11:AB:1540:DT:H71	1.82	0.62
11:AB:2531:DT:H2''	11:AB:2532:DT:H71	1.82	0.62
11:AB:3995:DT:H2''	11:AB:3996:DT:H71	1.82	0.62
11:AB:5073:DA:H2''	11:AB:5074:DT:H71	1.81	0.62
11:AB:7221:DT:H2''	11:AB:7222:DT:H71	1.82	0.62
39:D3:1:DT:H71	204:T3:45:DT:H2''	1.82	0.62
11:AB:225:DT:H2''	11:AB:226:DT:H71	1.82	0.62
11:AB:3617:DT:H2''	11:AB:3618:DT:H71	1.82	0.62
11:AB:4030:DT:H2''	11:AB:4031:DT:H71	1.82	0.62
11:AB:4170:DT:H2''	11:AB:4171:DT:H71	1.82	0.62
11:AB:5730:DT:H2''	11:AB:5731:DT:H71	1.82	0.62
11:AB:5778:DT:H2''	11:AB:5779:DT:H71	1.82	0.62
67:FA:10:DT:H2''	67:FA:11:DT:H71	1.82	0.62
131:L8:13:DT:H2''	131:L8:14:DT:H71	1.82	0.62
167:P3:12:DT:H2''	167:P3:13:DT:H71	1.82	0.62
5:A5:13:DT:H2''	5:A5:14:DT:H71	1.82	0.62
11:AB:165:DT:H2''	11:AB:166:DT:H71	1.82	0.62
11:AB:2086:DT:H2''	11:AB:2087:DT:H71	1.82	0.62
11:AB:2757:DT:H2''	11:AB:2758:DT:H71	1.82	0.62
11:AB:2834:DT:H2''	11:AB:2835:DT:H71	1.82	0.62
11:AB:2927:DT:H2''	11:AB:2928:DT:H71	1.82	0.62
11:AB:3128:DA:H2''	11:AB:3129:DT:H71	1.80	0.62
11:AB:3222:DT:H2''	11:AB:3223:DT:H71	1.82	0.62
11:AB:3397:DT:H2''	11:AB:3398:DT:H71	1.82	0.62
11:AB:4011:DT:H2''	11:AB:4348:DT:H71	1.82	0.62
11:AB:4797:DT:H2''	11:AB:4798:DT:H71	1.82	0.62
11:AB:6488:DT:H2''	11:AB:6489:DT:H71	1.82	0.62
11:AB:6956:DT:H2''	11:AB:6957:DT:H71	1.82	0.62
36:CD:17:DT:H2''	36:CD:18:DT:H71	1.82	0.62
82:H2:16:DT:H2''	82:H2:17:DT:H71	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
89:HA:16:DT:H2''	89:HA:17:DT:H71	1.82	0.62
105:J3:26:DT:H2''	105:J3:27:DT:H71	1.82	0.62
149:N6:5:DT:H2''	149:N6:6:DT:H71	1.82	0.62
181:Q9:28:DT:H2''	181:Q9:29:DT:H71	1.82	0.62
183:QC:26:DT:H2''	183:QC:27:DT:H71	1.82	0.62
204:T3:33:DT:H2''	204:T3:34:DT:H71	1.82	0.62
223:V5:33:DT:H2''	223:V5:34:DT:H71	1.82	0.62
230:W3:10:DA:H2''	230:W3:11:DT:H71	1.80	0.62
231:W5:11:DT:H2''	231:W5:12:DT:H71	1.82	0.62
11:AB:610:DT:H2''	11:AB:611:DT:H71	1.82	0.62
11:AB:645:DT:H2''	11:AB:646:DT:H71	1.82	0.62
11:AB:695:DT:H2''	11:AB:696:DT:H71	1.82	0.62
11:AB:756:DT:H2''	11:AB:757:DT:H71	1.82	0.62
11:AB:770:DT:H2''	11:AB:771:DT:H71	1.82	0.62
11:AB:794:DT:H2''	11:AB:795:DT:H71	1.82	0.62
11:AB:1372:DT:H2''	11:AB:1373:DT:H71	1.82	0.62
11:AB:1437:DT:H2''	11:AB:1438:DT:H71	1.82	0.62
11:AB:1933:DT:H2''	11:AB:1934:DT:H71	1.82	0.62
11:AB:1991:DT:H2''	11:AB:1992:DT:H71	1.82	0.62
11:AB:2347:DT:H2''	11:AB:2348:DT:H71	1.82	0.62
11:AB:2460:DT:H2''	11:AB:2461:DT:H71	1.82	0.62
11:AB:2624:DT:H2''	11:AB:2625:DT:H71	1.82	0.62
11:AB:2797:DT:H2''	11:AB:2798:DT:H71	1.82	0.62
11:AB:3001:DT:H2''	11:AB:3002:DT:H71	1.82	0.62
11:AB:3029:DA:H2''	11:AB:3030:DT:H71	1.80	0.62
11:AB:3223:DT:H2''	11:AB:3224:DT:H71	1.82	0.62
11:AB:3623:DT:H2''	11:AB:3624:DT:H71	1.82	0.62
11:AB:3828:DT:H2''	11:AB:3829:DT:H71	1.82	0.62
11:AB:3886:DT:H2''	11:AB:3887:DT:H71	1.82	0.62
11:AB:3939:DT:H2''	11:AB:3940:DT:H71	1.82	0.62
11:AB:4151:DT:H2''	11:AB:4320:DT:H71	1.82	0.62
11:AB:4605:DT:H2''	11:AB:4606:DT:H71	1.82	0.62
11:AB:4994:DT:H2''	11:AB:4995:DT:H71	1.82	0.62
11:AB:5384:DT:H2''	11:AB:5385:DT:H71	1.82	0.62
11:AB:5672:DT:H2''	11:AB:5673:DT:H71	1.82	0.62
11:AB:6046:DT:H2''	11:AB:6047:DT:H71	1.82	0.62
11:AB:6343:DT:H2''	11:AB:6344:DT:H71	1.82	0.62
11:AB:6374:DT:H2''	11:AB:6375:DT:H71	1.82	0.62
11:AB:6418:DT:H2''	11:AB:6419:DT:H71	1.82	0.62
11:AB:6483:DT:H2''	11:AB:6484:DT:H71	1.82	0.62
11:AB:6512:DT:H2''	11:AB:6513:DT:H71	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6599:DT:H2''	11:AB:6600:DT:H71	1.82	0.62
11:AB:6758:DT:H2''	11:AB:6759:DT:H71	1.82	0.62
11:AB:7062:DT:H2''	11:AB:7063:DT:H71	1.82	0.62
11:AB:7067:DT:H2''	11:AB:7068:DT:H71	1.82	0.62
12:AC:14:DT:H2''	12:AC:15:DT:H71	1.82	0.62
21:B8:4:DT:H2''	21:B8:5:DT:H71	1.82	0.62
45:DA:23:DA:H2''	45:DA:24:DT:H71	1.80	0.62
78:GA:10:DT:H2''	78:GA:11:DT:H71	1.82	0.62
86:H7:9:DT:H2''	86:H7:10:DT:H71	1.82	0.62
94:I3:6:DA:H2''	94:I3:7:DT:H71	1.80	0.62
119:K7:42:DT:H2''	119:K7:43:DT:H71	1.82	0.62
121:K9:18:DT:H2''	121:K9:19:DT:H71	1.82	0.62
138:M5:38:DT:H2''	138:M5:39:DT:H71	1.82	0.62
167:P3:13:DT:H2''	167:P3:14:DT:H71	1.82	0.62
172:P9:5:DT:H2''	172:P9:6:DT:H71	1.82	0.62
183:QC:25:DT:H2''	183:QC:26:DT:H71	1.82	0.62
186:R3:16:DT:H2''	186:R3:17:DT:H71	1.82	0.62
203:T2:7:DT:H2''	203:T2:8:DT:H71	1.82	0.62
218:UA:2:DT:H2''	218:UA:3:DT:H71	1.82	0.62
219:UC:9:DT:H2''	219:UC:10:DT:H71	1.82	0.62
222:V3:6:DT:H2''	222:V3:7:DT:H71	1.82	0.62
2:A2:27:DT:H2''	2:A2:28:DT:H71	1.82	0.62
4:A4:24:DA:H2''	67:FA:8:DT:H71	1.80	0.62
11:AB:144:DT:H2''	11:AB:145:DT:H71	1.82	0.62
11:AB:172:DT:H2''	11:AB:173:DT:H71	1.82	0.62
11:AB:653:DT:H2''	11:AB:654:DT:H71	1.82	0.62
11:AB:798:DT:H2''	11:AB:799:DT:H71	1.82	0.62
11:AB:1302:DT:H2''	11:AB:1303:DT:H71	1.82	0.62
11:AB:1344:DT:H2''	11:AB:1345:DT:H71	1.82	0.62
11:AB:1345:DT:H2''	11:AB:1346:DT:H71	1.82	0.62
11:AB:1393:DT:H2''	11:AB:1394:DT:H71	1.82	0.62
11:AB:1679:DT:H2''	11:AB:1680:DT:H71	1.82	0.62
11:AB:1710:DT:H2''	11:AB:1711:DT:H71	1.82	0.62
11:AB:1716:DT:H2''	11:AB:1717:DT:H71	1.82	0.62
11:AB:1780:DT:H2''	11:AB:1781:DT:H71	1.82	0.62
11:AB:2034:DT:H71	11:AB:5857:DT:H2''	1.82	0.62
11:AB:2057:DT:H2''	11:AB:5778:DT:H71	1.82	0.62
11:AB:2131:DT:H2''	11:AB:2132:DT:H71	1.82	0.62
11:AB:2197:DT:H2''	11:AB:2198:DT:H71	1.82	0.62
11:AB:2299:DT:H2''	11:AB:2300:DT:H71	1.82	0.62
11:AB:2364:DT:H2''	11:AB:5437:DT:H71	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2493:DT:H2''	11:AB:2494:DT:H71	1.82	0.62
11:AB:2517:DT:H2''	11:AB:2518:DT:H71	1.82	0.62
11:AB:2547:DT:H2''	11:AB:2548:DT:H71	1.82	0.62
11:AB:2648:DT:H2''	11:AB:2649:DT:H71	1.82	0.62
11:AB:2804:DA:H2''	11:AB:2805:DT:H71	1.81	0.62
11:AB:2821:DT:H2''	11:AB:2822:DT:H71	1.82	0.62
11:AB:3004:DT:H2''	11:AB:3005:DT:H71	1.82	0.62
11:AB:3304:DT:H2''	11:AB:3305:DT:H71	1.82	0.62
11:AB:3349:DT:H2''	11:AB:3350:DT:H71	1.82	0.62
11:AB:3550:DT:H2''	11:AB:3551:DT:H71	1.82	0.62
11:AB:3715:DT:H2''	11:AB:3716:DT:H71	1.82	0.62
11:AB:3758:DT:H2''	11:AB:3759:DT:H71	1.82	0.62
11:AB:3906:DT:H2''	11:AB:3907:DT:H71	1.82	0.62
11:AB:4236:DT:H2''	11:AB:4237:DT:H71	1.82	0.62
11:AB:4274:DT:H2''	11:AB:4275:DT:H71	1.82	0.62
11:AB:4639:DT:H2''	11:AB:4640:DT:H71	1.82	0.62
11:AB:4741:DT:H2''	11:AB:4742:DT:H71	1.82	0.62
11:AB:4872:DT:H2''	11:AB:4873:DT:H71	1.82	0.62
11:AB:5031:DT:H2''	11:AB:5032:DT:H71	1.82	0.62
11:AB:5163:DT:H2''	11:AB:5164:DT:H71	1.82	0.62
11:AB:5270:DT:H2''	11:AB:5271:DT:H71	1.82	0.62
11:AB:5290:DT:H2''	11:AB:5291:DT:H71	1.82	0.62
11:AB:5307:DT:H2''	11:AB:5308:DT:H71	1.82	0.62
11:AB:5318:DT:H2''	11:AB:5319:DT:H71	1.82	0.62
11:AB:5329:DT:H2''	11:AB:5330:DT:H71	1.82	0.62
11:AB:5354:DT:H2''	11:AB:5355:DT:H71	1.82	0.62
11:AB:5394:DT:H2''	11:AB:5395:DT:H71	1.82	0.62
11:AB:5443:DT:H2''	11:AB:5444:DT:H71	1.82	0.62
11:AB:5507:DA:H2''	11:AB:5508:DT:H71	1.80	0.62
11:AB:5537:DT:H2''	11:AB:5538:DT:H71	1.82	0.62
11:AB:5607:DT:H2''	11:AB:5608:DT:H71	1.82	0.62
11:AB:6143:DT:H2''	11:AB:6144:DT:H71	1.82	0.62
11:AB:6206:DT:H2''	11:AB:6207:DT:H71	1.82	0.62
11:AB:6258:DT:H2''	11:AB:6259:DT:H71	1.82	0.62
11:AB:6322:DA:H2''	11:AB:6323:DT:H71	1.80	0.62
11:AB:6508:DT:H2''	11:AB:6509:DT:H71	1.82	0.62
11:AB:6578:DT:H2''	11:AB:6579:DT:H71	1.82	0.62
11:AB:6600:DT:H2''	11:AB:6601:DT:H71	1.82	0.62
11:AB:6718:DT:H2''	11:AB:6719:DT:H71	1.82	0.62
11:AB:6894:DA:H2''	11:AB:6895:DT:H71	1.80	0.62
11:AB:6945:DT:H2''	11:AB:6946:DT:H71	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6990:DT:H2"	11:AB:6991:DT:H71	1.82	0.62
11:AB:7046:DT:H2"	11:AB:7047:DT:H71	1.82	0.62
11:AB:7087:DT:H2"	11:AB:7088:DT:H71	1.82	0.62
11:AB:7103:DT:H2"	11:AB:7104:DT:H71	1.82	0.62
13:AD:19:DA:H2"	13:AD:20:DT:H71	1.80	0.62
30:C6:27:DT:H2"	30:C6:28:DT:H71	1.82	0.62
36:CD:24:DA:H2"	36:CD:25:DT:H71	1.80	0.62
44:D9:21:DA:H2"	209:TA:40:DT:H71	1.80	0.62
49:E2:25:DT:H2"	49:E2:26:DT:H71	1.82	0.62
54:E8:12:DT:H2"	54:E8:13:DT:H71	1.82	0.62
54:E8:32:DT:H2"	54:E8:33:DT:H71	1.82	0.62
62:F5:9:DT:H2"	62:F5:10:DT:H71	1.82	0.62
67:FA:24:DT:H2"	67:FA:25:DT:H71	1.82	0.62
74:G6:19:DT:H2"	74:G6:20:DT:H71	1.82	0.62
77:G9:14:DT:H2"	77:G9:15:DT:H71	1.82	0.62
83:H3:17:DT:H2"	83:H3:18:DT:H71	1.82	0.62
94:I3:41:DT:H2"	94:I3:42:DT:H71	1.82	0.62
119:K7:37:DT:H2"	119:K7:38:DT:H71	1.82	0.62
120:K8:5:DT:H71	141:M8:30:DT:H2"	1.82	0.62
124:KD:8:DT:H2"	124:KD:9:DT:H71	1.82	0.62
125:L1:30:DT:H2"	125:L1:31:DT:H71	1.82	0.62
126:L2:31:DT:H2"	126:L2:32:DT:H71	1.82	0.62
133:LA:9:DT:H2"	133:LA:10:DT:H71	1.82	0.62
133:LA:20:DT:H2"	133:LA:21:DT:H71	1.82	0.62
144:MC:16:DT:H2"	144:MC:17:DT:H71	1.82	0.62
145:MD:17:DT:H71	172:P9:16:DT:H2"	1.82	0.62
151:N8:13:DT:H2"	151:N8:14:DT:H71	1.82	0.62
152:N9:10:DT:H2"	208:T9:14:DT:H71	1.82	0.62
156:O2:3:DA:H2"	156:O2:4:DT:H71	1.80	0.62
166:P2:15:DT:H2"	166:P2:16:DT:H71	1.82	0.62
171:P8:8:DT:H2"	171:P8:9:DT:H71	1.82	0.62
172:P9:12:DT:H2"	172:P9:13:DT:H71	1.82	0.62
173:PA:16:DT:H2"	173:PA:17:DT:H71	1.82	0.62
173:PA:24:DT:H2"	173:PA:25:DT:H71	1.82	0.62
179:Q7:10:DT:H2"	179:Q7:11:DT:H71	1.82	0.62
190:R9:35:DA:H2"	190:R9:36:DT:H71	1.80	0.62
193:RD:17:DT:H2"	193:RD:18:DT:H71	1.82	0.62
214:U5:23:DT:H2"	214:U5:24:DT:H71	1.82	0.62
218:UA:3:DT:H2"	218:UA:4:DT:H71	1.82	0.62
220:UD:11:DT:H2"	220:UD:12:DT:H71	1.82	0.62
222:V3:7:DT:H2"	222:V3:8:DT:H71	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
223:V5:40:DT:H2''	223:V5:41:DT:H71	1.82	0.62
231:W5:30:DT:H2''	231:W5:31:DT:H71	1.82	0.62
2:A2:28:DT:H2''	2:A2:29:DT:H71	1.82	0.61
7:A7:19:DT:H2''	7:A7:20:DT:H71	1.82	0.61
8:A8:12:DT:H2''	8:A8:13:DT:H71	1.82	0.61
8:A8:25:DT:H2''	8:A8:26:DT:H71	1.82	0.61
9:A9:4:DT:H2''	9:A9:5:DT:H71	1.82	0.61
11:AB:27:DT:H2''	11:AB:28:DT:H71	1.82	0.61
11:AB:131:DT:H2''	11:AB:132:DT:H71	1.82	0.61
11:AB:224:DT:H2''	11:AB:225:DT:H71	1.82	0.61
11:AB:431:DT:H2''	11:AB:432:DT:H71	1.82	0.61
11:AB:530:DT:H2''	11:AB:531:DT:H71	1.82	0.61
11:AB:799:DT:H2''	11:AB:800:DT:H71	1.82	0.61
11:AB:974:DT:H2''	11:AB:975:DT:H71	1.82	0.61
11:AB:1106:DT:H2''	11:AB:1107:DT:H71	1.82	0.61
11:AB:1224:DT:H2''	11:AB:1225:DT:H71	1.82	0.61
11:AB:1272:DT:H2''	11:AB:1273:DT:H71	1.82	0.61
11:AB:1278:DT:H2''	11:AB:1279:DT:H71	1.82	0.61
11:AB:1313:DT:H2''	11:AB:1314:DT:H71	1.82	0.61
11:AB:1363:DT:H2''	11:AB:1364:DT:H71	1.82	0.61
11:AB:1434:DT:H2''	11:AB:1435:DT:H71	1.82	0.61
11:AB:1472:DT:H2''	11:AB:1473:DT:H71	1.82	0.61
11:AB:1486:DT:H2''	11:AB:1487:DT:H71	1.82	0.61
11:AB:1487:DT:H2''	11:AB:1488:DT:H71	1.82	0.61
11:AB:1503:DT:H2''	11:AB:1504:DT:H71	1.82	0.61
11:AB:1507:DT:H2''	11:AB:1508:DT:H71	1.82	0.61
11:AB:1545:DT:H2''	11:AB:1546:DT:H71	1.82	0.61
11:AB:1563:DT:H2''	11:AB:1564:DT:H71	1.82	0.61
11:AB:1566:DT:H2''	11:AB:1567:DT:H71	1.82	0.61
11:AB:1584:DT:H2''	11:AB:1585:DT:H71	1.82	0.61
11:AB:1678:DT:H2''	11:AB:1679:DT:H71	1.82	0.61
11:AB:1689:DT:H2''	11:AB:1690:DT:H71	1.82	0.61
11:AB:1775:DT:H2''	11:AB:1776:DT:H71	1.82	0.61
11:AB:1873:DT:H2''	11:AB:1874:DT:H71	1.82	0.61
11:AB:1964:DT:H2''	11:AB:1965:DT:H71	1.82	0.61
11:AB:2023:DT:H2''	11:AB:2024:DT:H71	1.82	0.61
11:AB:2134:DT:H2''	11:AB:2135:DT:H71	1.82	0.61
11:AB:2155:DT:H2''	11:AB:2156:DT:H71	1.82	0.61
11:AB:2198:DT:H2''	11:AB:2199:DT:H71	1.82	0.61
11:AB:2221:DT:H2''	11:AB:2222:DT:H71	1.82	0.61
11:AB:2232:DT:H2''	11:AB:2233:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2249:DT:H2''	11:AB:2250:DT:H71	1.82	0.61
11:AB:2257:DT:H2''	11:AB:2258:DT:H71	1.82	0.61
11:AB:2272:DT:H2''	11:AB:5577:DT:H71	1.82	0.61
11:AB:2302:DT:H2''	11:AB:2303:DT:H71	1.82	0.61
11:AB:2422:DA:H2''	11:AB:2423:DT:H71	1.81	0.61
11:AB:2442:DT:H2''	11:AB:5367:DT:H71	1.82	0.61
11:AB:2560:DT:H2''	11:AB:2561:DT:H71	1.82	0.61
11:AB:2680:DT:H2''	11:AB:2681:DT:H71	1.82	0.61
11:AB:2756:DT:H2''	11:AB:2757:DT:H71	1.82	0.61
11:AB:2786:DT:H2''	11:AB:2787:DT:H71	1.82	0.61
11:AB:2800:DT:H2''	11:AB:2801:DT:H71	1.82	0.61
11:AB:2810:DT:H2''	11:AB:2811:DT:H71	1.82	0.61
11:AB:2898:DT:H2''	11:AB:2899:DT:H71	1.82	0.61
11:AB:3000:DT:H2''	11:AB:3001:DT:H71	1.82	0.61
11:AB:3014:DT:H2''	11:AB:3015:DT:H71	1.82	0.61
11:AB:3032:DT:H2''	11:AB:3033:DT:H71	1.82	0.61
11:AB:3103:DT:H2''	11:AB:3104:DT:H71	1.82	0.61
11:AB:3194:DT:H2''	11:AB:3195:DT:H71	1.82	0.61
11:AB:3244:DT:H2''	11:AB:3245:DT:H71	1.82	0.61
11:AB:3341:DT:H2''	11:AB:3342:DT:H71	1.82	0.61
11:AB:3385:DT:H2''	11:AB:3386:DT:H71	1.82	0.61
11:AB:3427:DT:H2''	11:AB:3428:DT:H71	1.82	0.61
11:AB:3440:DT:H2''	11:AB:3441:DT:H71	1.82	0.61
11:AB:3534:DT:H2''	11:AB:3535:DT:H71	1.82	0.61
11:AB:3678:DT:H2''	11:AB:4519:DT:H71	1.82	0.61
11:AB:3725:DT:H2''	11:AB:3726:DT:H71	1.82	0.61
11:AB:3746:DT:H2''	11:AB:3747:DT:H71	1.82	0.61
11:AB:3791:DT:H2''	11:AB:3792:DT:H71	1.82	0.61
11:AB:3961:DT:H2''	11:AB:3962:DT:H71	1.82	0.61
11:AB:3994:DT:H2''	11:AB:3995:DT:H71	1.82	0.61
11:AB:4191:DT:H2''	11:AB:4192:DT:H71	1.82	0.61
11:AB:4285:DT:H2''	11:AB:4286:DT:H71	1.82	0.61
11:AB:4345:DT:H2''	11:AB:4346:DT:H71	1.82	0.61
11:AB:4434:DT:H2''	11:AB:4435:DT:H71	1.82	0.61
11:AB:4613:DT:H2''	11:AB:4614:DT:H71	1.82	0.61
11:AB:4686:DT:H2''	11:AB:4687:DT:H71	1.82	0.61
11:AB:4698:DT:H2''	11:AB:4699:DT:H71	1.82	0.61
11:AB:4905:DT:H2''	11:AB:4906:DT:H71	1.82	0.61
11:AB:4939:DT:H2''	11:AB:4940:DT:H71	1.82	0.61
11:AB:5206:DT:H2''	11:AB:5207:DT:H71	1.82	0.61
11:AB:5286:DT:H2''	11:AB:5287:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5330:DT:H2''	11:AB:5331:DT:H71	1.82	0.61
11:AB:5457:DT:H2''	11:AB:5458:DT:H71	1.82	0.61
11:AB:5597:DT:H2''	11:AB:5598:DT:H71	1.82	0.61
11:AB:5616:DT:H2''	11:AB:5617:DT:H71	1.82	0.61
11:AB:5644:DT:H2''	11:AB:5645:DT:H71	1.82	0.61
11:AB:5729:DT:H2''	11:AB:5730:DT:H71	1.82	0.61
11:AB:5745:DT:H2''	11:AB:5746:DT:H71	1.82	0.61
11:AB:5767:DT:H2''	11:AB:5768:DT:H71	1.82	0.61
11:AB:5779:DT:H2''	11:AB:5780:DT:H71	1.82	0.61
11:AB:5791:DT:H2''	11:AB:5792:DT:H71	1.82	0.61
11:AB:5812:DT:H2''	11:AB:5813:DT:H71	1.82	0.61
11:AB:5819:DT:H2''	11:AB:5820:DT:H71	1.82	0.61
11:AB:5856:DT:H2''	11:AB:5857:DT:H71	1.82	0.61
11:AB:5952:DT:H2''	11:AB:5953:DT:H71	1.82	0.61
11:AB:6008:DA:H2''	11:AB:6009:DT:H71	1.80	0.61
11:AB:6280:DT:H2''	11:AB:6281:DT:H71	1.82	0.61
11:AB:6368:DT:H2''	11:AB:6369:DT:H71	1.82	0.61
11:AB:6425:DT:H2''	11:AB:6426:DT:H71	1.82	0.61
11:AB:6450:DT:H2''	11:AB:6451:DT:H71	1.82	0.61
11:AB:6487:DT:H2''	11:AB:6488:DT:H71	1.82	0.61
11:AB:6524:DT:H2''	11:AB:6525:DT:H71	1.82	0.61
11:AB:6598:DT:H2''	11:AB:6599:DT:H71	1.82	0.61
11:AB:6766:DT:H2''	11:AB:6767:DT:H71	1.82	0.61
11:AB:6879:DT:H2''	11:AB:6880:DT:H71	1.82	0.61
11:AB:6994:DT:H2''	11:AB:6995:DT:H71	1.82	0.61
11:AB:7035:DT:H2''	11:AB:7036:DT:H71	1.82	0.61
13:AD:37:DT:H2''	47:DD:28:DT:H71	1.82	0.61
13:AD:39:DT:H2''	13:AD:40:DT:H71	1.82	0.61
13:AD:40:DT:H2''	13:AD:41:DT:H71	1.82	0.61
16:B3:8:DT:H2''	16:B3:9:DT:H71	1.82	0.61
20:B7:5:DT:H2''	20:B7:6:DT:H71	1.82	0.61
20:B7:15:DT:H2''	20:B7:16:DT:H71	1.82	0.61
22:B9:2:DT:H2''	22:B9:3:DT:H71	1.82	0.61
23:BA:6:DT:H2''	23:BA:7:DT:H71	1.82	0.61
27:C2:13:DT:H2''	149:N6:38:DT:H71	1.82	0.61
30:C6:20:DT:H2''	30:C6:21:DT:H71	1.82	0.61
31:C7:4:DT:H2''	31:C7:5:DT:H71	1.82	0.61
31:C7:7:DT:H2''	31:C7:8:DT:H71	1.82	0.61
31:C7:26:DT:H2''	31:C7:27:DT:H71	1.82	0.61
32:C8:12:DT:H2''	32:C8:13:DT:H71	1.82	0.61
35:CC:13:DT:H2''	35:CC:14:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:CD:16:DT:H2"	36:CD:17:DT:H71	1.82	0.61
39:D3:12:DT:H71	202:SD:13:DT:H2"	1.82	0.61
43:D8:44:DT:H2"	43:D8:45:DT:H71	1.82	0.61
49:E2:15:DT:H2"	49:E2:16:DT:H71	1.82	0.61
53:E7:4:DA:H2"	53:E7:5:DT:H71	1.80	0.61
58:ED:40:DA:H2"	58:ED:41:DT:H71	1.81	0.61
60:F2:31:DT:H2"	60:F2:32:DT:H71	1.82	0.61
62:F5:28:DT:H2"	62:F5:29:DT:H71	1.82	0.61
67:FA:23:DT:H2"	67:FA:24:DT:H71	1.82	0.61
74:G6:15:DT:H2"	74:G6:16:DT:H71	1.82	0.61
76:G8:16:DT:H2"	76:G8:17:DT:H71	1.82	0.61
78:GA:9:DT:H2"	78:GA:10:DT:H71	1.82	0.61
79:GC:19:DT:H2"	79:GC:20:DT:H71	1.82	0.61
82:H2:10:DT:H2"	82:H2:11:DT:H71	1.82	0.61
82:H2:45:DT:H2"	82:H2:46:DT:H71	1.82	0.61
86:H7:8:DT:H2"	86:H7:9:DT:H71	1.82	0.61
89:HA:15:DT:H2"	89:HA:16:DT:H71	1.82	0.61
89:HA:17:DT:H2"	89:HA:18:DT:H71	1.82	0.61
93:I2:10:DA:H2"	93:I2:11:DT:H71	1.81	0.61
94:I3:25:DT:H71	107:J6:28:DT:H2"	1.82	0.61
94:I3:53:DT:H2"	94:I3:54:DT:H71	1.82	0.61
98:I8:5:DT:H2"	98:I8:6:DT:H71	1.82	0.61
102:ID:15:DT:H2"	102:ID:16:DT:H71	1.82	0.61
103:J1:28:DT:H2"	211:TD:1:DT:H71	1.82	0.61
106:J5:9:DT:H2"	106:J5:10:DT:H71	1.82	0.61
108:J7:3:DT:H2"	108:J7:4:DT:H71	1.82	0.61
112:JC:19:DT:H2"	112:JC:20:DT:H71	1.82	0.61
114:K1:13:DT:H2"	114:K1:14:DT:H71	1.82	0.61
123:KC:13:DT:H2"	123:KC:14:DT:H71	1.82	0.61
126:L2:9:DT:H2"	126:L2:10:DT:H71	1.82	0.61
127:L3:13:DT:H2"	127:L3:14:DT:H71	1.82	0.61
129:L6:9:DT:H2"	129:L6:10:DT:H71	1.82	0.61
147:N3:27:DT:H2"	147:N3:28:DT:H71	1.82	0.61
149:N6:4:DT:H2"	149:N6:5:DT:H71	1.82	0.61
152:N9:20:DT:H2"	152:N9:21:DT:H71	1.82	0.61
154:NC:19:DT:H2"	154:NC:20:DT:H71	1.82	0.61
168:P5:11:DT:H2"	168:P5:12:DT:H71	1.82	0.61
177:Q3:12:DT:H2"	177:Q3:13:DT:H71	1.82	0.61
181:Q9:11:DT:H2"	184:QD:22:DT:H71	1.82	0.61
181:Q9:35:DT:H2"	181:Q9:36:DT:H71	1.82	0.61
188:R7:11:DT:H2"	188:R7:12:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
189:R8:13:DT:H2''	189:R8:14:DT:H71	1.82	0.61
190:R9:6:DT:H2''	190:R9:7:DT:H71	1.82	0.61
191:RA:17:DT:H2''	191:RA:18:DT:H71	1.82	0.61
201:SC:3:DT:H2''	201:SC:4:DT:H71	1.82	0.61
211:TD:25:DT:H2''	211:TD:26:DT:H71	1.82	0.61
212:U2:21:DT:H2''	212:U2:22:DT:H71	1.82	0.61
215:U7:16:DT:H2''	215:U7:17:DT:H71	1.82	0.61
216:U8:9:DT:H2''	216:U8:10:DT:H71	1.82	0.61
217:U9:13:DT:H2''	217:U9:14:DT:H71	1.82	0.61
218:UA:1:DT:H2''	218:UA:2:DT:H71	1.82	0.61
221:V2:17:DT:H2''	221:V2:18:DT:H71	1.82	0.61
221:V2:21:DA:H2''	221:V2:22:DT:H71	1.81	0.61
231:W5:29:DT:H2''	231:W5:30:DT:H71	1.82	0.61
232:W7:13:DT:H2''	232:W7:14:DT:H71	1.82	0.61
232:W7:26:DT:H2''	232:W7:27:DT:H71	1.82	0.61
1:A1:5:DT:H2''	115:K2:31:DT:H71	1.82	0.61
1:A1:56:DT:H2''	1:A1:57:DT:H71	1.82	0.61
2:A2:17:DT:H2''	206:T7:46:DT:H71	1.82	0.61
4:A4:28:DT:H2''	4:A4:29:DT:H71	1.82	0.61
5:A5:20:DT:H2''	5:A5:21:DT:H71	1.82	0.61
6:A6:19:DT:H2''	6:A6:20:DT:H71	1.82	0.61
8:A8:26:DT:H2''	8:A8:27:DT:H71	1.82	0.61
11:AB:30:DT:H2''	11:AB:31:DT:H71	1.82	0.61
11:AB:135:DT:H2''	11:AB:136:DT:H71	1.82	0.61
11:AB:214:DT:H2''	11:AB:215:DT:H71	1.82	0.61
11:AB:252:DT:H2''	11:AB:253:DT:H71	1.82	0.61
11:AB:281:DT:H2''	11:AB:282:DT:H71	1.82	0.61
11:AB:338:DT:H2''	11:AB:339:DT:H71	1.82	0.61
11:AB:603:DT:H2''	11:AB:604:DT:H71	1.82	0.61
11:AB:624:DT:H2''	11:AB:625:DT:H71	1.82	0.61
11:AB:667:DT:H2''	11:AB:668:DT:H71	1.82	0.61
11:AB:698:DT:H2''	11:AB:699:DT:H71	1.82	0.61
11:AB:784:DT:H2''	11:AB:785:DT:H71	1.82	0.61
11:AB:1066:DT:H2''	11:AB:1067:DT:H71	1.82	0.61
11:AB:1070:DT:H2''	11:AB:1071:DT:H71	1.82	0.61
11:AB:1107:DT:H2''	11:AB:1108:DT:H71	1.82	0.61
11:AB:1205:DT:H2''	11:AB:1206:DT:H71	1.82	0.61
11:AB:1235:DT:H2''	11:AB:1236:DT:H71	1.82	0.61
11:AB:1273:DT:H2''	11:AB:1274:DT:H71	1.82	0.61
11:AB:1332:DT:H2''	11:AB:1333:DT:H71	1.82	0.61
11:AB:1356:DT:H2''	11:AB:1357:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1383:DT:H2''	11:AB:1384:DT:H71	1.82	0.61
11:AB:1476:DT:H2''	11:AB:1477:DT:H71	1.82	0.61
11:AB:1490:DT:H2''	11:AB:1491:DT:H71	1.82	0.61
11:AB:1553:DT:H2''	11:AB:1554:DT:H71	1.82	0.61
11:AB:1619:DT:H2''	11:AB:1620:DT:H71	1.82	0.61
11:AB:1680:DT:H2''	11:AB:1681:DT:H71	1.82	0.61
11:AB:2042:DT:H2''	11:AB:2043:DT:H71	1.82	0.61
11:AB:2089:DT:H2''	11:AB:2090:DT:H71	1.82	0.61
11:AB:2114:DA:H2''	11:AB:2115:DT:H71	1.81	0.61
11:AB:2429:DT:H2''	11:AB:2430:DT:H71	1.82	0.61
11:AB:2527:DT:H2''	11:AB:5284:DT:H71	1.82	0.61
11:AB:2530:DT:H2''	11:AB:2531:DT:H71	1.82	0.61
11:AB:2690:DT:H2''	11:AB:2691:DT:H71	1.82	0.61
11:AB:2819:DT:H2''	11:AB:2820:DT:H71	1.82	0.61
11:AB:2824:DT:H2''	11:AB:2825:DT:H71	1.82	0.61
11:AB:2831:DT:H2''	11:AB:2832:DT:H71	1.82	0.61
11:AB:2849:DT:H2''	11:AB:2850:DT:H71	1.82	0.61
11:AB:2861:DT:H2''	11:AB:2862:DT:H71	1.82	0.61
11:AB:2889:DT:H2''	11:AB:2890:DT:H71	1.82	0.61
11:AB:2957:DT:H2''	11:AB:2958:DT:H71	1.82	0.61
11:AB:3059:DT:H2''	11:AB:3060:DT:H71	1.82	0.61
11:AB:3164:DT:H2''	11:AB:3165:DT:H71	1.82	0.61
11:AB:3182:DT:H2''	11:AB:3183:DT:H71	1.82	0.61
11:AB:3200:DT:H2''	11:AB:3201:DT:H71	1.82	0.61
11:AB:3209:DT:H2''	11:AB:3210:DT:H71	1.82	0.61
11:AB:3241:DT:H2''	11:AB:3242:DT:H71	1.82	0.61
11:AB:3331:DT:H2''	11:AB:3332:DT:H71	1.82	0.61
11:AB:3367:DT:H2''	11:AB:3368:DT:H71	1.82	0.61
11:AB:3396:DT:H2''	11:AB:3397:DT:H71	1.82	0.61
11:AB:3426:DT:H2''	11:AB:3427:DT:H71	1.82	0.61
11:AB:3503:DT:H2''	11:AB:3504:DT:H71	1.82	0.61
11:AB:3510:DT:H2''	11:AB:3511:DT:H71	1.82	0.61
11:AB:3522:DT:H2''	11:AB:3523:DT:H71	1.82	0.61
11:AB:3598:DT:H2''	11:AB:3599:DT:H71	1.82	0.61
11:AB:3666:DT:H2''	11:AB:3667:DT:H71	1.82	0.61
11:AB:3747:DT:H2''	11:AB:3748:DT:H71	1.82	0.61
11:AB:4156:DT:H2''	11:AB:4157:DT:H71	1.82	0.61
11:AB:4157:DT:H2''	11:AB:4158:DT:H71	1.82	0.61
11:AB:4222:DT:H2''	11:AB:4223:DT:H71	1.82	0.61
11:AB:4327:DT:H2''	11:AB:4328:DT:H71	1.82	0.61
11:AB:4408:DT:H2''	11:AB:4409:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4409:DT:H2"	11:AB:4410:DT:H71	1.82	0.61
11:AB:4491:DT:H2"	11:AB:4492:DT:H71	1.82	0.61
11:AB:4713:DT:H2"	11:AB:4714:DT:H71	1.82	0.61
11:AB:4769:DT:H2"	11:AB:4770:DT:H71	1.82	0.61
11:AB:5181:DT:H2"	11:AB:5182:DT:H71	1.82	0.61
11:AB:5265:DT:H2"	11:AB:5266:DT:H71	1.82	0.61
11:AB:5341:DT:H2"	11:AB:5342:DT:H71	1.82	0.61
11:AB:5449:DT:H2"	11:AB:5450:DT:H71	1.82	0.61
11:AB:5639:DT:H2"	11:AB:5640:DT:H71	1.82	0.61
11:AB:5731:DT:H2"	11:AB:5732:DT:H71	1.82	0.61
11:AB:5766:DT:H2"	11:AB:5767:DT:H71	1.82	0.61
11:AB:5809:DT:H2"	11:AB:5810:DT:H71	1.82	0.61
11:AB:5855:DT:H2"	11:AB:5856:DT:H71	1.82	0.61
11:AB:5904:DT:H2"	11:AB:5905:DT:H71	1.82	0.61
11:AB:5943:DT:H2"	11:AB:5944:DT:H71	1.82	0.61
11:AB:6002:DT:H2"	11:AB:6003:DT:H71	1.82	0.61
11:AB:6132:DT:H2"	11:AB:6133:DT:H71	1.82	0.61
11:AB:6183:DT:H2"	11:AB:6184:DT:H71	1.82	0.61
11:AB:6220:DT:H2"	11:AB:6221:DT:H71	1.82	0.61
11:AB:6259:DT:H2"	11:AB:6260:DT:H71	1.82	0.61
11:AB:6264:DT:H2"	11:AB:6265:DT:H71	1.82	0.61
11:AB:6333:DT:H2"	11:AB:6334:DT:H71	1.82	0.61
11:AB:6393:DT:H2"	11:AB:6394:DT:H71	1.82	0.61
11:AB:6461:DT:H2"	11:AB:6462:DT:H71	1.82	0.61
11:AB:6489:DT:H2"	11:AB:6490:DT:H71	1.82	0.61
11:AB:6584:DT:H2"	11:AB:6585:DT:H71	1.82	0.61
11:AB:6603:DT:H2"	11:AB:6604:DT:H71	1.82	0.61
11:AB:6635:DT:H2"	11:AB:6636:DT:H71	1.82	0.61
11:AB:6719:DT:H2"	11:AB:6720:DT:H71	1.82	0.61
11:AB:6770:DT:H2"	11:AB:6771:DT:H71	1.82	0.61
11:AB:7056:DT:H2"	11:AB:7057:DT:H71	1.82	0.61
11:AB:7060:DT:H2"	11:AB:7061:DT:H71	1.82	0.61
11:AB:7094:DT:H2"	11:AB:7095:DT:H71	1.82	0.61
11:AB:7220:DT:H2"	11:AB:7221:DT:H71	1.82	0.61
17:B4:6:DT:H2"	17:B4:7:DT:H71	1.82	0.61
18:B5:20:DT:H2"	18:B5:21:DT:H71	1.82	0.61
18:B5:27:DT:H2"	18:B5:28:DT:H71	1.82	0.61
21:B8:22:DT:H2"	139:M6:15:DT:H71	1.82	0.61
26:C1:15:DT:H2"	26:C1:16:DT:H71	1.82	0.61
31:C7:11:DT:H2"	31:C7:12:DT:H71	1.82	0.61
32:C8:49:DT:H2"	32:C8:50:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CA:1:DT:H71	228:VC:21:DT:H2"	1.82	0.61
39:D3:21:DA:H2"	39:D3:22:DT:H71	1.81	0.61
41:D6:39:DT:H2"	41:D6:40:DT:H71	1.82	0.61
49:E2:11:DT:H2"	49:E2:12:DT:H71	1.82	0.61
54:E8:11:DT:H2"	54:E8:12:DT:H71	1.82	0.61
54:E8:24:DT:H2"	54:E8:25:DT:H71	1.82	0.61
55:E9:5:DT:H2"	55:E9:6:DT:H71	1.82	0.61
56:EA:16:DT:H2"	56:EA:17:DT:H71	1.82	0.61
60:F2:8:DT:H2"	60:F2:9:DT:H71	1.82	0.61
62:F5:21:DT:H2"	62:F5:22:DT:H71	1.82	0.61
62:F5:45:DT:H2"	62:F5:46:DT:H71	1.82	0.61
77:G9:2:DT:H2"	77:G9:3:DT:H71	1.82	0.61
81:H1:21:DT:H2"	81:H1:22:DT:H71	1.82	0.61
83:H3:3:DT:H2"	83:H3:4:DT:H71	1.82	0.61
91:HD:13:DT:H2"	91:HD:14:DT:H71	1.82	0.61
94:I3:53:DT:H71	115:K2:23:DT:H2"	1.82	0.61
95:I5:4:DT:H2"	95:I5:5:DT:H71	1.82	0.61
96:I6:7:DT:H2"	96:I6:8:DT:H71	1.82	0.61
96:I6:8:DT:H2"	96:I6:9:DT:H71	1.82	0.61
102:ID:9:DT:H2"	102:ID:10:DT:H71	1.82	0.61
105:J3:12:DT:H2"	105:J3:13:DT:H71	1.82	0.61
105:J3:21:DT:H71	130:L7:49:DT:H2"	1.82	0.61
106:J5:10:DT:H2"	106:J5:11:DT:H71	1.82	0.61
115:K2:5:DA:H2"	115:K2:6:DT:H71	1.81	0.61
115:K2:12:DT:H2"	115:K2:13:DT:H71	1.82	0.61
119:K7:6:DT:H2"	119:K7:7:DT:H71	1.82	0.61
121:K9:16:DT:H2"	121:K9:17:DT:H71	1.82	0.61
122:KA:29:DT:H2"	122:KA:30:DT:H71	1.82	0.61
122:KA:49:DT:H2"	122:KA:50:DT:H71	1.82	0.61
123:KC:27:DT:H2"	123:KC:28:DT:H71	1.82	0.61
130:L7:3:DT:H2"	130:L7:4:DT:H71	1.82	0.61
135:LD:8:DT:H2"	135:LD:9:DT:H71	1.82	0.61
136:M2:11:DT:H2"	136:M2:12:DT:H71	1.82	0.61
137:M3:27:DT:H2"	137:M3:28:DT:H71	1.82	0.61
138:M5:11:DT:H2"	138:M5:12:DT:H71	1.82	0.61
138:M5:39:DT:H2"	138:M5:40:DT:H71	1.82	0.61
142:M9:12:DT:H2"	142:M9:13:DT:H71	1.82	0.61
145:MD:29:DT:H2"	145:MD:30:DT:H71	1.82	0.61
148:N5:33:DT:H2"	148:N5:34:DT:H71	1.82	0.61
157:O3:23:DT:H2"	157:O3:24:DT:H71	1.82	0.61
160:O7:23:DT:H2"	160:O7:24:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
160:O7:50:DT:H2"	160:O7:51:DT:H71	1.82	0.61
165:OD:57:DT:H2"	165:OD:58:DT:H71	1.82	0.61
171:P8:21:DT:H2"	171:P8:22:DT:H71	1.82	0.61
174:PC:21:DT:H2"	174:PC:22:DT:H71	1.82	0.61
178:Q5:18:DT:H2"	178:Q5:19:DT:H71	1.82	0.61
178:Q5:31:DT:H2"	178:Q5:32:DT:H71	1.82	0.61
181:Q9:8:DT:H2"	181:Q9:9:DT:H71	1.82	0.61
181:Q9:29:DT:H2"	181:Q9:30:DT:H71	1.82	0.61
184:QD:11:DT:H2"	184:QD:12:DT:H71	1.82	0.61
190:R9:20:DT:H2"	190:R9:21:DT:H71	1.82	0.61
191:RA:28:DT:H2"	191:RA:29:DT:H71	1.82	0.61
192:RC:17:DT:H2"	192:RC:18:DT:H71	1.82	0.61
192:RC:29:DT:H2"	192:RC:30:DT:H71	1.82	0.61
198:S8:25:DT:H2"	198:S8:26:DT:H71	1.82	0.61
198:S8:40:DT:H2"	198:S8:41:DT:H71	1.82	0.61
200:SA:17:DT:H2"	200:SA:18:DT:H71	1.82	0.61
204:T3:11:DT:H2"	204:T3:12:DT:H71	1.82	0.61
214:U5:41:DT:H2"	214:U5:42:DT:H71	1.82	0.61
215:U7:3:DA:H2"	215:U7:4:DT:H71	1.81	0.61
232:W7:10:DT:H2"	232:W7:11:DT:H71	1.82	0.61
233:W8:6:DT:H2"	233:W8:7:DT:H71	1.82	0.61
238:X9:40:DT:H2"	238:X9:41:DT:H71	1.82	0.61
4:A4:27:DT:H2"	4:A4:28:DT:H71	1.82	0.61
9:A9:2:DT:H2"	9:A9:3:DT:H71	1.82	0.61
11:AB:132:DT:H2"	11:AB:133:DT:H71	1.82	0.61
11:AB:142:DT:H2"	11:AB:143:DT:H71	1.82	0.61
11:AB:143:DT:H2"	11:AB:144:DT:H71	1.82	0.61
11:AB:159:DT:H2"	11:AB:160:DT:H71	1.82	0.61
11:AB:176:DT:H2"	11:AB:177:DT:H71	1.82	0.61
11:AB:184:DT:H2"	11:AB:185:DT:H71	1.82	0.61
11:AB:189:DT:H2"	11:AB:190:DT:H71	1.82	0.61
11:AB:493:DT:H2"	11:AB:494:DT:H71	1.82	0.61
11:AB:572:DT:H2"	11:AB:573:DT:H71	1.82	0.61
11:AB:609:DT:H2"	11:AB:610:DT:H71	1.82	0.61
11:AB:652:DT:H2"	11:AB:653:DT:H71	1.82	0.61
11:AB:688:DT:H2"	11:AB:689:DT:H71	1.82	0.61
11:AB:802:DT:H2"	11:AB:803:DT:H71	1.82	0.61
11:AB:1120:DT:H2"	11:AB:1121:DT:H71	1.82	0.61
11:AB:1212:DT:H2"	11:AB:1213:DT:H71	1.82	0.61
11:AB:1309:DT:H2"	11:AB:1310:DT:H71	1.82	0.61
11:AB:1649:DT:H2"	11:AB:1650:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1747:DT:H2''	11:AB:1748:DT:H71	1.82	0.61
11:AB:1753:DT:H2''	11:AB:1754:DT:H71	1.82	0.61
11:AB:1778:DT:H2''	11:AB:1779:DT:H71	1.82	0.61
11:AB:2128:DT:H2''	11:AB:2129:DT:H71	1.82	0.61
11:AB:2394:DT:H2''	11:AB:2395:DT:H71	1.82	0.61
11:AB:2459:DT:H2''	11:AB:2460:DT:H71	1.82	0.61
11:AB:2469:DT:H2''	11:AB:2470:DT:H71	1.82	0.61
11:AB:2752:DT:H2''	11:AB:2753:DT:H71	1.82	0.61
11:AB:2773:DT:H2''	11:AB:2774:DT:H71	1.82	0.61
11:AB:2816:DT:H2''	11:AB:2817:DT:H71	1.82	0.61
11:AB:3015:DT:H2''	11:AB:3016:DT:H71	1.82	0.61
11:AB:3062:DT:H2''	11:AB:3063:DT:H71	1.82	0.61
11:AB:3090:DT:H2''	11:AB:3091:DT:H71	1.82	0.61
11:AB:3156:DT:H2''	11:AB:3157:DT:H71	1.82	0.61
11:AB:3161:DT:H2''	11:AB:3162:DT:H71	1.82	0.61
11:AB:3549:DT:H2''	11:AB:3550:DT:H71	1.82	0.61
11:AB:3761:DT:H2''	11:AB:3762:DT:H71	1.82	0.61
11:AB:3820:DT:H2''	11:AB:3821:DT:H71	1.82	0.61
11:AB:3869:DT:H2''	11:AB:3870:DT:H71	1.82	0.61
11:AB:3978:DT:H2''	11:AB:3979:DT:H71	1.82	0.61
11:AB:4079:DT:H2''	11:AB:4080:DT:H71	1.82	0.61
11:AB:4243:DT:H2''	11:AB:4244:DT:H71	1.82	0.61
11:AB:4273:DT:H2''	11:AB:4274:DT:H71	1.82	0.61
11:AB:4317:DT:H2''	11:AB:4318:DT:H71	1.82	0.61
11:AB:4457:DT:H2''	11:AB:4458:DT:H71	1.82	0.61
11:AB:4458:DT:H2''	11:AB:4459:DT:H71	1.82	0.61
11:AB:5021:DT:H2''	11:AB:5022:DT:H71	1.82	0.61
11:AB:5229:DT:H2''	11:AB:5230:DT:H71	1.82	0.61
11:AB:5362:DT:H2''	11:AB:5363:DT:H71	1.82	0.61
11:AB:5395:DT:H2''	11:AB:5396:DT:H71	1.82	0.61
11:AB:5501:DT:H2''	11:AB:5502:DT:H71	1.82	0.61
11:AB:5580:DT:H2''	11:AB:5581:DT:H71	1.82	0.61
11:AB:5834:DT:H2''	11:AB:5835:DT:H71	1.82	0.61
11:AB:6033:DT:H2''	11:AB:6034:DT:H71	1.82	0.61
11:AB:6197:DT:H2''	11:AB:6198:DT:H71	1.82	0.61
11:AB:6274:DT:H2''	11:AB:6275:DT:H71	1.82	0.61
11:AB:6292:DT:H2''	11:AB:6293:DT:H71	1.82	0.61
11:AB:6426:DT:H2''	11:AB:6427:DT:H71	1.82	0.61
11:AB:6740:DT:H2''	11:AB:6741:DT:H71	1.82	0.61
11:AB:6802:DT:H2''	11:AB:6803:DT:H71	1.82	0.61
11:AB:6850:DT:H2''	11:AB:6851:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6957:DT:H2"	11:AB:6958:DT:H71	1.82	0.61
12:AC:12:DT:H2"	12:AC:13:DT:H71	1.82	0.61
20:B7:14:DT:H2"	20:B7:15:DT:H71	1.82	0.61
29:C5:1:DT:H2"	29:C5:2:DT:H71	1.82	0.61
30:C6:15:DT:H71	43:D8:42:DT:H2"	1.82	0.61
41:D6:37:DT:H2"	41:D6:38:DT:H71	1.82	0.61
43:D8:11:DT:H2"	43:D8:12:DT:H71	1.82	0.61
49:E2:23:DT:H2"	96:I6:1:DT:H71	1.82	0.61
50:E3:7:DT:H2"	50:E3:8:DT:H71	1.82	0.61
55:E9:9:DT:H2"	55:E9:10:DT:H71	1.82	0.61
56:EA:13:DT:H2"	56:EA:14:DT:H71	1.82	0.61
58:ED:26:DT:H2"	58:ED:27:DT:H71	1.82	0.61
77:G9:6:DT:H2"	77:G9:7:DT:H71	1.82	0.61
87:H8:6:DT:H2"	87:H8:7:DT:H71	1.82	0.61
105:J3:19:DT:H2"	105:J3:20:DT:H71	1.82	0.61
114:K1:35:DT:H2"	119:K7:26:DT:H71	1.82	0.61
117:K5:14:DT:H2"	117:K5:15:DT:H71	1.82	0.61
119:K7:41:DT:H2"	119:K7:42:DT:H71	1.82	0.61
126:L2:10:DT:H2"	126:L2:11:DT:H71	1.82	0.61
132:L9:18:DT:H2"	132:L9:19:DT:H71	1.82	0.61
133:LA:4:DT:H2"	133:LA:5:DT:H71	1.82	0.61
135:LD:9:DT:H2"	135:LD:10:DT:H71	1.82	0.61
144:MC:20:DT:H2"	144:MC:21:DT:H71	1.82	0.61
159:O6:2:DT:H2"	159:O6:3:DT:H71	1.82	0.61
176:Q2:16:DT:H2"	176:Q2:17:DT:H71	1.82	0.61
177:Q3:10:DT:H2"	177:Q3:11:DT:H71	1.82	0.61
178:Q5:36:DT:H71	214:U5:14:DT:H2"	1.82	0.61
183:QC:24:DT:H2"	183:QC:25:DT:H71	1.82	0.61
194:S2:8:DT:H2"	194:S2:9:DT:H71	1.82	0.61
202:SD:28:DT:H2"	202:SD:29:DT:H71	1.82	0.61
211:TD:18:DT:H2"	211:TD:19:DT:H71	1.82	0.61
231:W5:9:DT:H2"	231:W5:10:DT:H71	1.82	0.61
7:A7:27:DT:H2"	118:K6:14:DT:H71	1.82	0.61
11:AB:36:DT:H2"	11:AB:37:DT:H71	1.82	0.61
11:AB:74:DT:H2"	11:AB:75:DT:H71	1.82	0.61
11:AB:120:DT:H2"	11:AB:121:DT:H71	1.82	0.61
11:AB:121:DT:H2"	11:AB:122:DT:H71	1.82	0.61
11:AB:162:DT:H2"	11:AB:163:DT:H71	1.82	0.61
11:AB:331:DT:H2"	11:AB:332:DT:H71	1.82	0.61
11:AB:337:DT:H2"	11:AB:338:DT:H71	1.82	0.61
11:AB:506:DT:H2"	11:AB:507:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1085:DT:H2''	11:AB:1086:DT:H71	1.82	0.61
11:AB:1129:DT:H2''	11:AB:1130:DT:H71	1.82	0.61
11:AB:1158:DT:H2''	11:AB:1159:DT:H71	1.82	0.61
11:AB:1271:DT:H2''	11:AB:1272:DT:H71	1.82	0.61
11:AB:1329:DT:H2''	11:AB:1330:DT:H71	1.82	0.61
11:AB:1446:DT:H2''	11:AB:1447:DT:H71	1.82	0.61
11:AB:1454:DT:H2''	11:AB:1455:DT:H71	1.82	0.61
11:AB:1774:DT:H2''	11:AB:1775:DT:H71	1.82	0.61
11:AB:1779:DT:H2''	11:AB:1780:DT:H71	1.82	0.61
11:AB:1952:DT:H2''	11:AB:1953:DT:H71	1.82	0.61
11:AB:2174:DT:H2''	11:AB:2175:DT:H71	1.82	0.61
11:AB:2475:DT:H2''	11:AB:2476:DT:H71	1.82	0.61
11:AB:2507:DT:H2''	11:AB:2508:DT:H71	1.82	0.61
11:AB:2659:DT:H2''	11:AB:2660:DT:H71	1.82	0.61
11:AB:2891:DT:H2''	11:AB:2892:DT:H71	1.82	0.61
11:AB:2978:DT:H2''	11:AB:2979:DT:H71	1.82	0.61
11:AB:3193:DT:H2''	11:AB:3194:DT:H71	1.82	0.61
11:AB:3245:DT:H2''	11:AB:3246:DT:H71	1.82	0.61
11:AB:3435:DT:H2''	11:AB:3436:DT:H71	1.82	0.61
11:AB:4152:DT:H71	11:AB:4319:DT:H2''	1.82	0.61
11:AB:4804:DT:H2''	11:AB:4805:DT:H71	1.82	0.61
11:AB:4873:DT:H2''	11:AB:4874:DT:H71	1.82	0.61
11:AB:4914:DT:H2''	11:AB:4915:DT:H71	1.82	0.61
11:AB:5022:DT:H2''	11:AB:5023:DT:H71	1.82	0.61
11:AB:5184:DT:H2''	11:AB:5185:DT:H71	1.82	0.61
11:AB:5465:DT:H2''	11:AB:5466:DT:H71	1.82	0.61
11:AB:5790:DT:H2''	11:AB:5791:DT:H71	1.82	0.61
11:AB:6094:DT:H2''	11:AB:6095:DT:H71	1.82	0.61
11:AB:6366:DT:H2''	11:AB:6367:DT:H71	1.82	0.61
11:AB:6597:DT:H2''	11:AB:6598:DT:H71	1.82	0.61
11:AB:6667:DT:H2''	11:AB:6668:DT:H71	1.82	0.61
11:AB:6864:DT:H2''	11:AB:6865:DT:H71	1.82	0.61
11:AB:6983:DT:H2''	11:AB:6984:DT:H71	1.82	0.61
11:AB:7047:DT:H2''	11:AB:7048:DT:H71	1.82	0.61
11:AB:7104:DT:H2''	11:AB:7105:DT:H71	1.82	0.61
13:AD:36:DT:H2''	13:AD:37:DT:H71	1.82	0.61
26:C1:12:DT:H2''	26:C1:13:DT:H71	1.82	0.61
32:C8:13:DT:H2''	32:C8:14:DT:H71	1.82	0.61
41:D6:38:DT:H2''	41:D6:39:DT:H71	1.82	0.61
60:F2:9:DT:H2''	60:F2:10:DT:H71	1.82	0.61
62:F5:8:DT:H2''	62:F5:9:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
84:H5:15:DT:H2"	84:H5:16:DT:H71	1.82	0.61
105:J3:7:DT:H2"	105:J3:8:DT:H71	1.82	0.61
108:J7:24:DT:H2"	108:J7:25:DT:H71	1.82	0.61
117:K5:30:DT:H2"	117:K5:31:DT:H71	1.82	0.61
120:K8:19:DT:H2"	120:K8:20:DT:H71	1.82	0.61
128:L5:8:DT:H2"	128:L5:9:DT:H71	1.82	0.61
130:L7:17:DT:H2"	130:L7:18:DT:H71	1.82	0.61
136:M2:10:DT:H2"	136:M2:11:DT:H71	1.82	0.61
138:M5:10:DT:H2"	138:M5:11:DT:H71	1.82	0.61
145:MD:10:DT:H2"	145:MD:11:DT:H71	1.82	0.61
147:N3:15:DT:H2"	147:N3:16:DT:H71	1.82	0.61
154:NC:12:DT:H2"	154:NC:13:DT:H71	1.82	0.61
155:ND:12:DT:H2"	184:QD:8:DT:H71	1.82	0.61
172:P9:13:DT:H2"	172:P9:14:DT:H71	1.82	0.61
211:TD:6:DT:H2"	211:TD:7:DT:H71	1.82	0.61
215:U7:15:DT:H2"	215:U7:16:DT:H71	1.82	0.61
231:W5:28:DT:H2"	231:W5:29:DT:H71	1.82	0.61
235:WD:20:DT:H2"	235:WD:21:DT:H71	1.82	0.61
237:X7:10:DT:H2"	237:X7:11:DT:H71	1.82	0.61
2:A2:15:DT:H2"	2:A2:16:DT:H71	1.82	0.61
4:A4:26:DT:H2"	4:A4:27:DT:H71	1.82	0.61
9:A9:3:DT:H2"	9:A9:4:DT:H71	1.82	0.61
9:A9:14:DT:H2"	9:A9:15:DT:H71	1.82	0.61
11:AB:133:DT:H2"	11:AB:134:DT:H71	1.82	0.61
11:AB:181:DT:H2"	11:AB:182:DT:H71	1.82	0.61
11:AB:783:DT:H2"	11:AB:784:DT:H71	1.82	0.61
11:AB:1211:DT:H2"	11:AB:1212:DT:H71	1.82	0.61
11:AB:1258:DT:H2"	11:AB:1259:DT:H71	1.82	0.61
11:AB:1451:DT:H2"	11:AB:1452:DT:H71	1.82	0.61
11:AB:1462:DT:H2"	11:AB:1463:DT:H71	1.82	0.61
11:AB:1644:DT:H2"	11:AB:1645:DT:H71	1.82	0.61
11:AB:1911:DT:H2"	11:AB:1912:DT:H71	1.82	0.61
11:AB:2047:DT:H2"	11:AB:2048:DT:H71	1.82	0.61
11:AB:2322:DT:H2"	11:AB:2323:DT:H71	1.82	0.61
11:AB:2335:DT:H2"	11:AB:2336:DT:H71	1.82	0.61
11:AB:2396:DT:H2"	11:AB:2397:DT:H71	1.82	0.61
11:AB:2438:DT:H2"	11:AB:2439:DT:H71	1.82	0.61
11:AB:2536:DT:H2"	11:AB:2537:DT:H71	1.82	0.61
11:AB:2570:DT:H2"	11:AB:2571:DT:H71	1.82	0.61
11:AB:2596:DT:H2"	11:AB:2597:DT:H71	1.82	0.61
11:AB:2641:DT:H2"	11:AB:2642:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2720:DT:H2"	11:AB:2721:DT:H71	1.82	0.61
11:AB:2735:DT:H2"	11:AB:2736:DT:H71	1.82	0.61
11:AB:2767:DT:H2"	11:AB:2768:DT:H71	1.82	0.61
11:AB:2830:DT:H2"	11:AB:2831:DT:H71	1.82	0.61
11:AB:2933:DT:H2"	11:AB:2934:DT:H71	1.82	0.61
11:AB:3054:DT:H2"	11:AB:3055:DT:H71	1.82	0.61
11:AB:3261:DT:H2"	11:AB:3262:DT:H71	1.82	0.61
11:AB:3588:DT:H2"	11:AB:3589:DT:H71	1.82	0.61
11:AB:3716:DT:H2"	11:AB:3717:DT:H71	1.82	0.61
11:AB:4235:DT:H2"	11:AB:4236:DT:H71	1.82	0.61
11:AB:4326:DT:H2"	11:AB:4327:DT:H71	1.82	0.61
11:AB:4404:DT:H2"	11:AB:4405:DT:H71	1.82	0.61
11:AB:4426:DT:H2"	11:AB:4427:DT:H71	1.82	0.61
11:AB:4768:DT:H2"	11:AB:4769:DT:H71	1.82	0.61
11:AB:5280:DT:H2"	11:AB:5281:DT:H71	1.82	0.61
11:AB:5383:DT:H2"	11:AB:5384:DT:H71	1.82	0.61
11:AB:5500:DT:H2"	11:AB:5501:DT:H71	1.82	0.61
11:AB:5671:DT:H2"	11:AB:5672:DT:H71	1.82	0.61
11:AB:5854:DT:H2"	11:AB:5855:DT:H71	1.82	0.61
11:AB:6038:DT:H2"	11:AB:6039:DT:H71	1.82	0.61
11:AB:6191:DT:H2"	11:AB:6192:DT:H71	1.82	0.61
11:AB:6203:DT:H2"	11:AB:6204:DT:H71	1.82	0.61
11:AB:6257:DT:H2"	11:AB:6258:DT:H71	1.82	0.61
11:AB:6367:DT:H2"	11:AB:6368:DT:H71	1.82	0.61
11:AB:6808:DT:H2"	11:AB:6809:DT:H71	1.82	0.61
11:AB:6889:DT:H2"	11:AB:6890:DT:H71	1.82	0.61
11:AB:7001:DT:H2"	11:AB:7002:DT:H71	1.82	0.61
22:B9:39:DT:H2"	22:B9:40:DT:H71	1.82	0.61
26:C1:23:DT:H2"	26:C1:24:DT:H71	1.82	0.61
31:C7:5:DT:H2"	49:E2:31:DT:H71	1.82	0.61
37:D1:7:DT:H2"	138:M5:29:DT:H71	1.82	0.61
49:E2:21:DT:H2"	49:E2:22:DT:H71	1.82	0.61
96:I6:6:DT:H2"	96:I6:7:DT:H71	1.82	0.61
100:IA:14:DT:H2"	100:IA:15:DT:H71	1.82	0.61
108:J7:17:DT:H2"	108:J7:18:DT:H71	1.82	0.61
109:J8:36:DT:H71	232:W7:27:DT:H2"	1.82	0.61
114:K1:40:DT:H2"	114:K1:41:DT:H71	1.82	0.61
115:K2:22:DT:H2"	115:K2:23:DT:H71	1.82	0.61
117:K5:37:DT:H2"	117:K5:38:DT:H71	1.82	0.61
118:K6:7:DT:H2"	118:K6:8:DT:H71	1.82	0.61
118:K6:20:DT:H2"	118:K6:21:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
123:KC:14:DT:H2"	123:KC:15:DT:H71	1.82	0.61
124:KD:9:DT:H2"	124:KD:10:DT:H71	1.82	0.61
129:L6:8:DT:H2"	129:L6:9:DT:H71	1.82	0.61
133:LA:8:DT:H2"	133:LA:9:DT:H71	1.82	0.61
138:M5:9:DT:H2"	138:M5:10:DT:H71	1.82	0.61
141:M8:28:DT:H2"	141:M8:29:DT:H71	1.82	0.61
144:MC:22:DT:H2"	144:MC:23:DT:H71	1.82	0.61
154:NC:16:DT:H2"	154:NC:17:DT:H71	1.82	0.61
154:NC:18:DT:H2"	154:NC:19:DT:H71	1.82	0.61
160:O7:22:DT:H2"	160:O7:23:DT:H71	1.82	0.61
161:O8:46:DT:H2"	161:O8:47:DT:H71	1.82	0.61
171:P8:18:DT:H71	185:R2:14:DT:H2"	1.82	0.61
181:Q9:9:DT:H2"	181:Q9:10:DT:H71	1.82	0.61
194:S2:27:DT:H2"	194:S2:28:DT:H71	1.82	0.61
208:T9:19:DT:H2"	208:T9:20:DT:H71	1.82	0.61
224:V7:18:DT:H2"	224:V7:19:DT:H71	1.82	0.61
11:AB:65:DT:H2"	11:AB:66:DT:H71	1.82	0.61
11:AB:194:DT:H2"	11:AB:195:DT:H71	1.82	0.61
11:AB:282:DT:H2"	11:AB:283:DT:H71	1.82	0.61
11:AB:1241:DT:H2"	11:AB:1242:DT:H71	1.82	0.61
11:AB:1471:DT:H2"	11:AB:1472:DT:H71	1.82	0.61
11:AB:1508:DT:H2"	11:AB:1509:DT:H71	1.82	0.61
11:AB:1632:DT:H2"	11:AB:1633:DT:H71	1.82	0.61
11:AB:1653:DT:H2"	11:AB:1654:DT:H71	1.82	0.61
11:AB:1711:DT:H2"	11:AB:1712:DT:H71	1.82	0.61
11:AB:1712:DT:H2"	11:AB:1713:DT:H71	1.82	0.61
11:AB:1719:DT:H2"	11:AB:1720:DT:H71	1.82	0.61
11:AB:1822:DT:H2"	11:AB:1823:DT:H71	1.82	0.61
11:AB:1877:DT:H2"	11:AB:1878:DT:H71	1.82	0.61
11:AB:2097:DT:H2"	11:AB:2098:DT:H71	1.82	0.61
11:AB:2098:DT:H2"	11:AB:2099:DT:H71	1.82	0.61
11:AB:2140:DT:H2"	11:AB:2141:DT:H71	1.82	0.61
11:AB:2148:DT:H2"	11:AB:2149:DT:H71	1.82	0.61
11:AB:2243:DT:H2"	11:AB:2244:DT:H71	1.82	0.61
11:AB:2293:DT:H2"	11:AB:2294:DT:H71	1.82	0.61
11:AB:2419:DT:H2"	11:AB:2420:DT:H71	1.82	0.61
11:AB:2474:DT:H2"	11:AB:2475:DT:H71	1.82	0.61
11:AB:2874:DT:H2"	11:AB:2875:DT:H71	1.82	0.61
11:AB:2934:DT:H2"	11:AB:2935:DT:H71	1.82	0.61
11:AB:3366:DT:H2"	11:AB:3367:DT:H71	1.82	0.61
11:AB:3548:DT:H2"	11:AB:3549:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3571:DT:H2''	11:AB:3572:DT:H71	1.82	0.61
11:AB:3668:DT:H2''	11:AB:3669:DT:H71	1.82	0.61
11:AB:3905:DT:H2''	11:AB:3906:DT:H71	1.82	0.61
11:AB:4125:DT:H2''	11:AB:4126:DT:H71	1.82	0.61
11:AB:4160:DT:H2''	11:AB:4161:DT:H71	1.82	0.61
11:AB:4363:DT:H2''	11:AB:4364:DT:H71	1.82	0.61
11:AB:4366:DT:H2''	11:AB:4367:DT:H71	1.82	0.61
11:AB:4407:DT:H2''	11:AB:4408:DT:H71	1.82	0.61
11:AB:4720:DT:H2''	11:AB:4721:DT:H71	1.82	0.61
11:AB:4721:DT:H2''	11:AB:4722:DT:H71	1.82	0.61
11:AB:5268:DT:H2''	11:AB:5269:DT:H71	1.82	0.61
11:AB:5271:DT:H2''	11:AB:5272:DT:H71	1.82	0.61
11:AB:5347:DT:H2''	11:AB:5348:DT:H71	1.82	0.61
11:AB:5393:DT:H2''	11:AB:5394:DT:H71	1.82	0.61
11:AB:5462:DT:H2''	11:AB:5463:DT:H71	1.82	0.61
11:AB:5645:DT:H2''	11:AB:5646:DT:H71	1.82	0.61
11:AB:5670:DT:H2''	11:AB:5671:DT:H71	1.82	0.61
11:AB:5751:DT:H2''	11:AB:5752:DT:H71	1.82	0.61
11:AB:5897:DT:H2''	11:AB:5898:DT:H71	1.82	0.61
11:AB:6281:DT:H2''	11:AB:6282:DT:H71	1.82	0.61
11:AB:6424:DT:H2''	11:AB:6425:DT:H71	1.82	0.61
11:AB:6569:DT:H2''	11:AB:6570:DT:H71	1.82	0.61
11:AB:6946:DT:H2''	11:AB:6947:DT:H71	1.82	0.61
18:B5:21:DT:H2''	156:O2:22:DT:H71	1.82	0.61
21:B8:23:DT:H2''	21:B8:24:DT:H71	1.82	0.61
22:B9:35:DT:H2''	228:VC:8:DT:H71	1.82	0.61
23:BA:25:DT:H2''	23:BA:26:DT:H71	1.82	0.61
42:D7:5:DT:H2''	42:D7:6:DT:H71	1.82	0.61
50:E3:11:DT:H2''	50:E3:12:DT:H71	1.82	0.61
53:E7:9:DT:H2''	53:E7:10:DT:H71	1.82	0.61
53:E7:21:DT:H2''	53:E7:22:DT:H71	1.82	0.61
55:E9:32:DT:H2''	55:E9:33:DT:H71	1.82	0.61
60:F2:30:DT:H2''	60:F2:31:DT:H71	1.82	0.61
62:F5:29:DT:H2''	62:F5:30:DT:H71	1.82	0.61
68:FC:3:DT:H2''	68:FC:4:DT:H71	1.82	0.61
84:H5:4:DT:H2''	84:H5:5:DT:H71	1.82	0.61
93:I2:27:DT:H2''	93:I2:28:DT:H71	1.82	0.61
95:I5:35:DT:H2''	138:M5:15:DT:H71	1.82	0.61
119:K7:19:DT:H71	230:W3:14:DT:H2''	1.82	0.61
119:K7:19:DT:H2''	119:K7:20:DT:H71	1.82	0.61
127:L3:14:DT:H2''	211:TD:29:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
130:L7:45:DT:H2''	130:L7:46:DT:H71	1.82	0.61
136:M2:21:DT:H2''	166:P2:17:DT:H71	1.82	0.61
145:MD:30:DT:H2''	173:PA:22:DT:H71	1.82	0.61
146:N2:11:DT:H2''	146:N2:12:DT:H71	1.82	0.61
159:O6:14:DT:H2''	159:O6:15:DT:H71	1.82	0.61
167:P3:14:DT:H2''	167:P3:15:DT:H71	1.82	0.61
171:P8:22:DT:H2''	171:P8:23:DT:H71	1.82	0.61
177:Q3:11:DT:H2''	177:Q3:12:DT:H71	1.82	0.61
178:Q5:19:DT:H2''	178:Q5:20:DT:H71	1.82	0.61
191:RA:18:DT:H2''	191:RA:19:DT:H71	1.82	0.61
211:TD:33:DT:H2''	211:TD:34:DT:H71	1.82	0.61
219:UC:10:DT:H2''	219:UC:11:DT:H71	1.82	0.61
221:V2:16:DT:H2''	221:V2:17:DT:H71	1.82	0.61
222:V3:8:DT:H2''	222:V3:9:DT:H71	1.82	0.61
230:W3:32:DT:H2''	230:W3:33:DT:H71	1.82	0.61
7:A7:38:DT:H2''	7:A7:39:DT:H71	1.82	0.61
8:A8:13:DT:H2''	8:A8:14:DT:H71	1.82	0.61
11:AB:795:DT:H2''	11:AB:796:DT:H71	1.82	0.61
11:AB:1172:DT:H2''	11:AB:1173:DT:H71	1.82	0.61
11:AB:1279:DT:H2''	11:AB:1280:DT:H71	1.82	0.61
11:AB:1354:DT:H2''	11:AB:1355:DT:H71	1.82	0.61
11:AB:1438:DT:H2''	11:AB:1439:DT:H71	1.82	0.61
11:AB:1509:DT:H2''	11:AB:1510:DT:H71	1.82	0.61
11:AB:1550:DT:H2''	11:AB:1551:DT:H71	1.82	0.61
11:AB:1594:DT:H2''	11:AB:1595:DT:H71	1.82	0.61
11:AB:1681:DT:H2''	11:AB:1682:DT:H71	1.82	0.61
11:AB:1725:DT:H2''	11:AB:1726:DT:H71	1.82	0.61
11:AB:1740:DT:H2''	11:AB:1741:DT:H71	1.82	0.61
11:AB:1748:DT:H2''	11:AB:1749:DT:H71	1.82	0.61
11:AB:1831:DT:H2''	11:AB:1832:DT:H71	1.82	0.61
11:AB:1965:DT:H2''	11:AB:1966:DT:H71	1.82	0.61
11:AB:2132:DT:H2''	11:AB:2133:DT:H71	1.82	0.61
11:AB:2225:DT:H2''	11:AB:2226:DT:H71	1.82	0.61
11:AB:2348:DT:H2''	11:AB:2349:DT:H71	1.82	0.61
11:AB:2405:DT:H2''	11:AB:2406:DT:H71	1.82	0.61
11:AB:2426:DT:H2''	11:AB:2427:DT:H71	1.82	0.61
11:AB:2625:DT:H2''	11:AB:2626:DT:H71	1.82	0.61
11:AB:2738:DT:H2''	11:AB:2739:DT:H71	1.82	0.61
11:AB:3031:DT:H2''	11:AB:3032:DT:H71	1.82	0.61
11:AB:3095:DT:H2''	11:AB:3096:DT:H71	1.82	0.61
11:AB:3535:DT:H2''	11:AB:3536:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3948:DT:H2''	11:AB:3949:DT:H71	1.82	0.61
11:AB:4244:DT:H2''	11:AB:4245:DT:H71	1.82	0.61
11:AB:4751:DT:H2''	11:AB:4752:DT:H71	1.82	0.61
11:AB:4984:DT:H2''	11:AB:4985:DT:H71	1.82	0.61
11:AB:5435:DT:H2''	11:AB:5436:DT:H71	1.82	0.61
11:AB:5542:DT:H2''	11:AB:5543:DT:H71	1.82	0.61
11:AB:5570:DT:H2''	11:AB:5571:DT:H71	1.82	0.61
11:AB:5581:DT:H2''	11:AB:5582:DT:H71	1.82	0.61
11:AB:5617:DT:H2''	11:AB:5618:DT:H71	1.82	0.61
11:AB:5661:DT:H2''	11:AB:5662:DT:H71	1.82	0.61
11:AB:5780:DT:H2''	11:AB:5781:DT:H71	1.82	0.61
11:AB:5894:DT:H2''	11:AB:5895:DT:H71	1.82	0.61
11:AB:5966:DT:H2''	11:AB:5967:DT:H71	1.82	0.61
11:AB:6396:DT:H2''	11:AB:6397:DT:H71	1.82	0.61
11:AB:6467:DT:H2''	11:AB:6468:DT:H71	1.82	0.61
11:AB:6638:DT:H2''	11:AB:6639:DT:H71	1.82	0.61
11:AB:6737:DT:H2''	11:AB:6738:DT:H71	1.82	0.61
11:AB:7034:DT:H2''	11:AB:7035:DT:H71	1.82	0.61
11:AB:7048:DT:H2''	11:AB:7049:DT:H71	1.82	0.61
11:AB:7115:DT:H2''	11:AB:7116:DT:H71	1.82	0.61
11:AB:7170:DT:H2''	11:AB:7171:DT:H71	1.82	0.61
16:B3:19:DT:H2''	16:B3:20:DT:H71	1.82	0.61
21:B8:5:DT:H2''	21:B8:6:DT:H71	1.82	0.61
31:C7:28:DT:H2''	31:C7:29:DT:H71	1.82	0.61
32:C8:11:DT:H2''	32:C8:12:DT:H71	1.82	0.61
32:C8:51:DT:H2''	32:C8:52:DT:H71	1.82	0.61
51:E5:31:DT:H2''	51:E5:32:DT:H71	1.82	0.61
54:E8:13:DT:H2''	54:E8:14:DT:H71	1.82	0.61
60:F2:18:DT:H2''	230:W3:22:DT:H71	1.82	0.61
62:F5:10:DT:H2''	93:I2:8:DT:H71	1.82	0.61
89:HA:6:DT:H2''	89:HA:7:DT:H71	1.82	0.61
91:HD:9:DT:H2''	91:HD:10:DT:H71	1.82	0.61
95:I5:25:DT:H2''	95:I5:26:DT:H71	1.82	0.61
96:I6:11:DT:H2''	96:I6:12:DT:H71	1.82	0.61
98:I8:42:DT:H2''	98:I8:43:DT:H71	1.82	0.61
104:J2:19:DT:H2''	104:J2:20:DT:H71	1.82	0.61
105:J3:20:DT:H2''	130:L7:50:DT:H71	1.82	0.61
105:J3:28:DT:H71	235:WD:13:DT:H2''	1.82	0.61
108:J7:13:DT:H2''	108:J7:14:DT:H71	1.82	0.61
108:J7:43:DT:H2''	108:J7:44:DT:H71	1.82	0.61
111:JA:1:DT:H2''	111:JA:2:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
115:K2:32:DT:H2"	115:K2:33:DT:H71	1.82	0.61
127:L3:6:DT:H2"	127:L3:7:DT:H71	1.82	0.61
140:M7:10:DT:H2"	206:T7:11:DT:H71	1.82	0.61
141:M8:11:DT:H2"	141:M8:12:DT:H71	1.82	0.61
141:M8:29:DT:H2"	141:M8:30:DT:H71	1.82	0.61
142:M9:22:DT:H2"	142:M9:23:DT:H71	1.82	0.61
144:MC:21:DT:H2"	144:MC:22:DT:H71	1.82	0.61
154:NC:18:DT:H71	189:R8:21:DT:H2"	1.82	0.61
161:O8:24:DT:H2"	161:O8:25:DT:H71	1.82	0.61
184:QD:10:DT:H2"	184:QD:11:DT:H71	1.82	0.61
187:R5:15:DT:H71	223:V5:34:DT:H2"	1.82	0.61
189:R8:33:DT:H2"	189:R8:34:DT:H71	1.82	0.61
190:R9:1:DT:H2"	190:R9:2:DT:H71	1.82	0.61
200:SA:23:DT:H2"	200:SA:24:DT:H71	1.82	0.61
214:U5:19:DT:H2"	214:U5:20:DT:H71	1.82	0.61
217:U9:14:DT:H2"	217:U9:15:DT:H71	1.82	0.61
220:UD:2:DT:H2"	220:UD:3:DT:H71	1.82	0.61
222:V3:19:DT:H2"	222:V3:20:DT:H71	1.82	0.61
5:A5:11:DT:H2"	5:A5:12:DT:H71	1.82	0.61
11:AB:248:DT:H2"	11:AB:249:DT:H71	1.82	0.61
11:AB:388:DT:H2"	11:AB:389:DT:H71	1.82	0.61
11:AB:602:DT:H2"	11:AB:603:DT:H71	1.82	0.61
11:AB:740:DT:H2"	11:AB:741:DT:H71	1.82	0.61
11:AB:975:DT:H2"	11:AB:976:DT:H71	1.82	0.61
11:AB:1608:DT:H2"	11:AB:1609:DT:H71	1.82	0.61
11:AB:1843:DT:H2"	11:AB:1844:DT:H71	1.82	0.61
11:AB:2016:DT:H2"	11:AB:2017:DT:H71	1.82	0.61
11:AB:2068:DA:H2"	11:AB:2069:DT:H71	1.80	0.61
11:AB:2231:DT:H2"	11:AB:2232:DT:H71	1.82	0.61
11:AB:2244:DT:H2"	11:AB:2245:DT:H71	1.82	0.61
11:AB:2518:DT:H2"	11:AB:2519:DT:H71	1.82	0.61
11:AB:2542:DT:H2"	11:AB:2543:DT:H71	1.82	0.61
11:AB:2681:DT:H2"	11:AB:2682:DT:H71	1.82	0.61
11:AB:2820:DT:H2"	11:AB:2821:DT:H71	1.82	0.61
11:AB:2848:DT:H2"	11:AB:2849:DT:H71	1.82	0.61
11:AB:3287:DT:H2"	11:AB:3288:DT:H71	1.82	0.61
11:AB:3329:DT:H2"	11:AB:3330:DT:H71	1.82	0.61
11:AB:3439:DT:H2"	11:AB:3440:DT:H71	1.82	0.61
11:AB:3788:DT:H2"	11:AB:3789:DT:H71	1.82	0.61
11:AB:4169:DT:H2"	11:AB:4170:DT:H71	1.82	0.61
11:AB:4181:DT:H2"	11:AB:4182:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4223:DT:H2"	11:AB:4224:DT:H71	1.82	0.61
11:AB:4940:DT:H2"	11:AB:4941:DT:H71	1.82	0.61
11:AB:5385:DT:H2"	11:AB:5386:DT:H71	1.82	0.61
11:AB:5679:DT:H2"	11:AB:5680:DT:H71	1.82	0.61
11:AB:5713:DT:H2"	11:AB:5714:DT:H71	1.82	0.61
11:AB:5787:DT:H2"	11:AB:5788:DT:H71	1.82	0.61
11:AB:5808:DT:H2"	11:AB:5809:DT:H71	1.82	0.61
11:AB:5982:DT:H2"	11:AB:5983:DT:H71	1.82	0.61
11:AB:6010:DT:H2"	11:AB:6011:DT:H71	1.82	0.61
11:AB:6423:DT:H2"	11:AB:6424:DT:H71	1.82	0.61
11:AB:6548:DT:H2"	11:AB:6549:DT:H71	1.82	0.61
11:AB:6657:DT:H2"	11:AB:6658:DT:H71	1.82	0.61
11:AB:7042:DA:H2"	11:AB:7043:DT:H71	1.80	0.61
11:AB:7055:DT:H2"	11:AB:7056:DT:H71	1.82	0.61
11:AB:7183:DT:H2"	11:AB:7184:DT:H71	1.82	0.61
18:B5:35:DT:H2"	18:B5:36:DT:H71	1.82	0.61
37:D1:4:DT:H2"	37:D1:5:DT:H71	1.82	0.61
49:E2:8:DA:H2"	49:E2:9:DT:H71	1.80	0.61
49:E2:22:DT:H2"	49:E2:23:DT:H71	1.82	0.61
53:E7:14:DA:H2"	53:E7:15:DT:H71	1.80	0.61
54:E8:17:DT:H71	109:J8:21:DT:H2"	1.82	0.61
56:EA:6:DT:H2"	56:EA:7:DT:H71	1.82	0.61
62:F5:44:DT:H2"	62:F5:45:DT:H71	1.82	0.61
80:GD:7:DT:H2"	80:GD:8:DT:H71	1.82	0.61
105:J3:18:DT:H2"	105:J3:19:DT:H71	1.82	0.61
130:L7:27:DA:H2"	130:L7:28:DT:H71	1.80	0.61
130:L7:50:DT:H2"	130:L7:51:DT:H71	1.82	0.61
147:N3:32:DT:H2"	147:N3:33:DT:H71	1.82	0.61
152:N9:9:DT:H2"	152:N9:10:DT:H71	1.82	0.61
155:ND:11:DT:H2"	155:ND:12:DT:H71	1.82	0.61
156:O2:1:DT:H71	166:P2:16:DT:H2"	1.82	0.61
160:O7:18:DA:H2"	160:O7:19:DT:H71	1.80	0.61
165:OD:48:DA:H2"	165:OD:49:DT:H71	1.80	0.61
166:P2:14:DT:H2"	166:P2:15:DT:H71	1.82	0.61
185:R2:1:DT:H71	198:S8:31:DT:H2"	1.82	0.61
189:R8:25:DT:H2"	189:R8:26:DT:H71	1.82	0.61
190:R9:37:DT:H2"	190:R9:38:DT:H71	1.82	0.61
206:T7:44:DA:H2"	206:T7:45:DT:H71	1.80	0.61
216:U8:22:DT:H2"	216:U8:23:DT:H71	1.82	0.61
227:VA:9:DT:H2"	227:VA:10:DT:H71	1.82	0.61
5:A5:12:DT:H2"	5:A5:13:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:376:DT:H2"	11:AB:377:DT:H71	1.82	0.61
11:AB:771:DT:H2"	11:AB:772:DT:H71	1.82	0.61
11:AB:1121:DT:H2"	11:AB:1122:DT:H71	1.82	0.61
11:AB:1355:DT:H2"	11:AB:1356:DT:H71	1.82	0.61
11:AB:1439:DT:H2"	11:AB:1440:DT:H71	1.82	0.61
11:AB:1569:DT:H2"	11:AB:1570:DT:H71	1.82	0.61
11:AB:1671:DT:H2"	11:AB:1672:DT:H71	1.82	0.61
11:AB:2393:DT:H2"	11:AB:2394:DT:H71	1.82	0.61
11:AB:2707:DT:H2"	11:AB:2708:DT:H71	1.82	0.61
11:AB:3279:DA:H2"	11:AB:3280:DT:H71	1.80	0.61
11:AB:3308:DT:H2"	11:AB:3309:DT:H71	1.82	0.61
11:AB:3467:DT:H2"	11:AB:3468:DT:H71	1.82	0.61
11:AB:3710:DA:H2"	11:AB:3711:DT:H71	1.80	0.61
11:AB:3767:DT:H2"	11:AB:3768:DT:H71	1.82	0.61
11:AB:3907:DT:H2"	11:AB:3908:DT:H71	1.82	0.61
11:AB:4316:DT:H2"	11:AB:4317:DT:H71	1.82	0.61
11:AB:5269:DT:H2"	11:AB:5270:DT:H71	1.82	0.61
11:AB:5423:DT:H2"	11:AB:5424:DT:H71	1.82	0.61
11:AB:5921:DA:H2"	11:AB:5922:DT:H71	1.80	0.61
11:AB:6128:DT:H2"	11:AB:6129:DT:H71	1.82	0.61
11:AB:6221:DT:H2"	11:AB:6222:DT:H71	1.82	0.61
11:AB:6587:DT:H2"	11:AB:6588:DT:H71	1.82	0.61
18:B5:19:DT:H2"	18:B5:20:DT:H71	1.82	0.61
57:EC:6:DT:H2"	57:EC:7:DT:H71	1.82	0.61
84:H5:11:DA:H2"	84:H5:12:DT:H71	1.80	0.61
97:I7:12:DT:H2"	97:I7:13:DT:H71	1.82	0.61
105:J3:25:DT:H2"	105:J3:26:DT:H71	1.82	0.61
114:K1:14:DT:H2"	137:M3:22:DT:H71	1.82	0.61
118:K6:5:DA:H2"	118:K6:6:DT:H71	1.80	0.61
122:KA:7:DT:H2"	209:TA:19:DT:H71	1.82	0.61
144:MC:14:DT:H2"	144:MC:15:DT:H71	1.82	0.61
149:N6:9:DT:H2"	149:N6:10:DT:H71	1.82	0.61
159:O6:1:DT:H71	169:P6:13:DT:H2"	1.82	0.61
166:P2:34:DT:H2"	166:P2:35:DT:H71	1.82	0.61
170:P7:5:DA:H2"	170:P7:6:DT:H71	1.80	0.61
171:P8:23:DT:H2"	171:P8:24:DT:H71	1.82	0.61
172:P9:23:DT:H2"	172:P9:24:DT:H71	1.82	0.61
178:Q5:34:DA:H2"	178:Q5:35:DT:H71	1.80	0.61
183:QC:8:DA:H2"	183:QC:9:DT:H71	1.80	0.61
214:U5:13:DT:H2"	214:U5:14:DT:H71	1.82	0.61
231:W5:26:DT:H2"	231:W5:27:DT:H71	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:16:DT:H2''	2:A2:17:DT:H71	1.82	0.61
10:AA:16:DT:H2''	22:B9:29:DT:H71	1.82	0.61
11:AB:134:DT:H2''	11:AB:135:DT:H71	1.82	0.61
11:AB:1587:DT:H2''	11:AB:1588:DT:H71	1.82	0.61
11:AB:1837:DA:H2''	11:AB:1838:DT:H71	1.81	0.61
11:AB:2133:DT:H2''	11:AB:2134:DT:H71	1.82	0.61
11:AB:2201:DT:H2''	11:AB:2202:DT:H71	1.82	0.61
11:AB:2768:DT:H2''	11:AB:2769:DT:H71	1.82	0.61
11:AB:2930:DT:H2''	11:AB:2931:DT:H71	1.82	0.61
11:AB:3005:DT:H2''	11:AB:3006:DT:H71	1.82	0.61
11:AB:3504:DT:H2''	11:AB:3505:DT:H71	1.82	0.61
11:AB:3819:DT:H2''	11:AB:3820:DT:H71	1.82	0.61
11:AB:3881:DT:H2''	11:AB:3882:DT:H71	1.82	0.61
11:AB:5125:DT:H2''	11:AB:5126:DT:H71	1.82	0.61
11:AB:5180:DT:H2''	11:AB:5181:DT:H71	1.82	0.61
11:AB:5697:DT:H2''	11:AB:5698:DT:H71	1.82	0.61
11:AB:5726:DA:H2''	11:AB:5727:DT:H71	1.81	0.61
11:AB:5770:DT:H2''	11:AB:5771:DT:H71	1.82	0.61
11:AB:5816:DA:H2''	11:AB:5817:DT:H71	1.80	0.61
11:AB:6549:DT:H2''	11:AB:6550:DT:H71	1.82	0.61
11:AB:6566:DT:H2''	11:AB:6567:DT:H71	1.82	0.61
11:AB:6582:DT:H2''	11:AB:6583:DT:H71	1.82	0.61
11:AB:6673:DT:H2''	11:AB:6674:DT:H71	1.82	0.61
21:B8:6:DT:H2''	21:B8:7:DT:H71	1.82	0.61
24:BC:32:DT:H2''	24:BC:33:DT:H71	1.82	0.61
103:J1:27:DT:H2''	103:J1:28:DT:H71	1.82	0.61
105:J3:5:DA:H2''	105:J3:6:DT:H71	1.81	0.61
161:O8:3:DA:H2''	161:O8:4:DT:H71	1.80	0.61
162:O9:12:DA:H2''	162:O9:13:DT:H71	1.81	0.61
178:Q5:20:DT:H2''	178:Q5:21:DT:H71	1.82	0.61
181:Q9:10:DT:H2''	181:Q9:11:DT:H71	1.82	0.61
189:R8:12:DT:H2''	189:R8:13:DT:H71	1.82	0.61
214:U5:40:DT:H2''	214:U5:41:DT:H71	1.82	0.61
233:W8:22:DA:H2''	233:W8:23:DT:H71	1.80	0.61
235:WD:19:DT:H2''	235:WD:20:DT:H71	1.82	0.61
236:X5:15:DT:H2''	236:X5:16:DT:H71	1.82	0.61
1:A1:18:DT:H2''	1:A1:19:DT:H71	1.82	0.60
3:A3:16:DT:H2''	39:D3:5:DT:H71	1.82	0.60
11:AB:403:DA:H2''	11:AB:404:DT:H71	1.81	0.60
11:AB:1741:DT:H2''	11:AB:1742:DT:H71	1.82	0.60
11:AB:2315:DT:H2''	11:AB:2316:DT:H71	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2626:DT:H2''	11:AB:2627:DT:H71	1.82	0.60
11:AB:2634:DT:H2''	11:AB:2635:DT:H71	1.82	0.60
11:AB:3233:DT:H2''	11:AB:3234:DT:H71	1.82	0.60
11:AB:3533:DT:H2''	11:AB:3534:DT:H71	1.82	0.60
11:AB:3850:DA:H2''	11:AB:3851:DT:H71	1.81	0.60
11:AB:4190:DT:H2''	11:AB:4191:DT:H71	1.82	0.60
11:AB:5223:DT:H2''	11:AB:5224:DT:H71	1.82	0.60
11:AB:5232:DA:H2''	11:AB:5233:DT:H71	1.81	0.60
11:AB:6311:DA:H2''	11:AB:6312:DT:H71	1.81	0.60
11:AB:6761:DT:H2''	11:AB:6762:DT:H71	1.82	0.60
11:AB:7158:DT:H2''	11:AB:7159:DT:H71	1.82	0.60
25:BD:22:DA:H2''	25:BD:23:DT:H71	1.81	0.60
62:F5:30:DT:H2''	62:F5:31:DT:H71	1.82	0.60
74:G6:14:DT:H2''	74:G6:15:DT:H71	1.82	0.60
96:I6:12:DT:H2''	96:I6:13:DT:H71	1.82	0.60
190:R9:2:DT:H2''	190:R9:3:DT:H71	1.82	0.60
219:UC:11:DT:H2''	219:UC:12:DT:H71	1.82	0.60
11:AB:253:DT:H2''	11:AB:254:DT:H71	1.82	0.60
11:AB:362:DT:H2''	11:AB:363:DT:H71	1.82	0.60
11:AB:2365:DT:H71	11:AB:5436:DT:H2''	1.82	0.60
11:AB:3280:DT:H2''	11:AB:3281:DT:H71	1.82	0.60
11:AB:3613:DA:H2''	11:AB:3614:DT:H71	1.81	0.60
11:AB:6009:DT:H2''	11:AB:6010:DT:H71	1.82	0.60
11:AB:6989:DT:H2''	11:AB:6990:DT:H71	1.82	0.60
85:H6:19:DT:H2''	85:H6:20:DT:H71	1.82	0.60
148:N5:9:DT:H2''	148:N5:10:DT:H71	1.82	0.60
195:S3:19:DT:H2''	195:S3:20:DT:H71	1.82	0.60
2:A2:18:DT:H71	206:T7:45:DT:H2''	1.82	0.60
7:A7:39:DT:H2''	7:A7:40:DT:H71	1.83	0.60
11:AB:446:DT:H2''	11:AB:447:DT:H71	1.82	0.60
11:AB:947:DT:H2''	11:AB:948:DT:H71	1.82	0.60
11:AB:1384:DT:H2''	11:AB:1385:DT:H71	1.82	0.60
11:AB:1686:DT:H2''	11:AB:1687:DT:H71	1.82	0.60
11:AB:1930:DT:H2''	11:AB:1931:DT:H71	1.82	0.60
11:AB:2815:DT:H2''	11:AB:2816:DT:H71	1.82	0.60
11:AB:3008:DT:H2''	11:AB:3009:DT:H71	1.82	0.60
11:AB:3160:DT:H2''	11:AB:3161:DT:H71	1.82	0.60
11:AB:3434:DT:H2''	11:AB:3435:DT:H71	1.82	0.60
11:AB:6175:DT:H2''	11:AB:6176:DT:H71	1.82	0.60
11:AB:6793:DT:H2''	11:AB:6794:DT:H71	1.82	0.60
11:AB:6863:DT:H2''	11:AB:6864:DT:H71	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B9:18:DT:H2"	22:B9:19:DT:H71	1.82	0.60
40:D5:16:DT:H2"	231:W5:28:DT:H71	1.82	0.60
59:F1:20:DT:H2"	102:ID:1:DT:H71	1.82	0.60
118:K6:6:DT:H2"	118:K6:7:DT:H71	1.82	0.60
128:L5:7:DT:H2"	128:L5:8:DT:H71	1.82	0.60
129:L6:19:DT:H2"	129:L6:20:DT:H71	1.82	0.60
145:MD:34:DT:H2"	145:MD:35:DT:H71	1.82	0.60
162:O9:13:DT:H2"	191:RA:28:DT:H71	1.82	0.60
190:R9:36:DT:H2"	190:R9:37:DT:H71	1.82	0.60
192:RC:31:DT:H2"	192:RC:32:DT:H71	1.82	0.60
230:W3:25:DT:H2"	230:W3:26:DT:H71	1.82	0.60
11:AB:1236:DT:H2"	11:AB:1237:DT:H71	1.82	0.60
11:AB:1304:DT:H2"	11:AB:1305:DT:H71	1.82	0.60
11:AB:1385:DT:H2"	11:AB:1386:DT:H71	1.82	0.60
11:AB:1718:DT:H2"	11:AB:1719:DT:H71	1.82	0.60
11:AB:2115:DT:H2"	11:AB:2116:DT:H71	1.82	0.60
11:AB:3009:DT:H2"	11:AB:3010:DT:H71	1.82	0.60
11:AB:3030:DT:H2"	11:AB:3031:DT:H71	1.82	0.60
11:AB:3192:DT:H2"	11:AB:3193:DT:H71	1.82	0.60
11:AB:3614:DT:H2"	11:AB:3615:DT:H71	1.82	0.60
11:AB:3624:DT:H2"	11:AB:3625:DT:H71	1.82	0.60
11:AB:3851:DT:H2"	11:AB:3852:DT:H71	1.82	0.60
11:AB:4101:DT:H2"	11:AB:4102:DT:H71	1.82	0.60
11:AB:4856:DT:H2"	11:AB:4857:DT:H71	1.82	0.60
11:AB:5598:DT:H2"	11:AB:5599:DT:H71	1.82	0.60
11:AB:5998:DT:H2"	11:AB:5999:DT:H71	1.82	0.60
11:AB:6301:DT:H2"	11:AB:6302:DT:H71	1.82	0.60
11:AB:6302:DT:H2"	11:AB:6303:DT:H71	1.82	0.60
11:AB:6323:DT:H2"	11:AB:6324:DT:H71	1.82	0.60
11:AB:6398:DT:H2"	11:AB:6399:DT:H71	1.82	0.60
11:AB:6895:DT:H2"	11:AB:6896:DT:H71	1.82	0.60
11:AB:7075:DT:H2"	11:AB:7076:DT:H71	1.82	0.60
20:B7:14:DT:H71	97:I7:27:DT:H2"	1.82	0.60
39:D3:22:DT:H2"	39:D3:23:DT:H71	1.82	0.60
53:E7:5:DT:H2"	53:E7:6:DT:H71	1.82	0.60
72:G3:1:DT:H71	83:H3:7:DT:H2"	1.82	0.60
77:G9:15:DT:H2"	77:G9:16:DT:H71	1.82	0.60
86:H7:17:DT:H2"	86:H7:18:DT:H71	1.82	0.60
105:J3:6:DT:H2"	105:J3:7:DT:H71	1.82	0.60
115:K2:6:DT:H2"	115:K2:7:DT:H71	1.82	0.60
167:P3:6:DT:H2"	167:P3:7:DT:H71	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
198:S8:10:DT:H2''	198:S8:11:DT:H71	1.82	0.60
214:U5:24:DT:H2''	214:U5:25:DT:H71	1.82	0.60
221:V2:22:DT:H2''	221:V2:23:DT:H71	1.82	0.60
230:W3:11:DT:H2''	230:W3:12:DT:H71	1.82	0.60
237:X7:3:DT:H2''	237:X7:4:DT:H71	1.82	0.60
11:AB:1159:DT:H2''	11:AB:1160:DT:H71	1.82	0.60
11:AB:1371:DT:H2''	11:AB:1372:DT:H71	1.82	0.60
11:AB:1392:DT:H2''	11:AB:1393:DT:H71	1.82	0.60
11:AB:1554:DT:H2''	11:AB:1555:DT:H71	1.82	0.60
11:AB:1557:DT:H2''	11:AB:1558:DT:H71	1.82	0.60
11:AB:2093:DT:H2''	11:AB:2094:DT:H71	1.82	0.60
11:AB:2423:DT:H2''	11:AB:2424:DT:H71	1.82	0.60
11:AB:2430:DT:H2''	11:AB:2431:DT:H71	1.82	0.60
11:AB:2721:DT:H2''	11:AB:2722:DT:H71	1.82	0.60
11:AB:2847:DT:H2''	11:AB:2848:DT:H71	1.82	0.60
11:AB:2967:DT:H2''	11:AB:2968:DT:H71	1.82	0.60
11:AB:3157:DT:H2''	11:AB:3158:DT:H71	1.82	0.60
11:AB:3311:DT:H2''	11:AB:3312:DT:H71	1.82	0.60
11:AB:3353:DT:H2''	11:AB:3354:DT:H71	1.82	0.60
11:AB:3760:DT:H2''	11:AB:3761:DT:H71	1.82	0.60
11:AB:4150:DT:H2''	11:AB:4151:DT:H71	1.82	0.60
11:AB:4425:DT:H2''	11:AB:4426:DT:H71	1.82	0.60
11:AB:5076:DT:H2''	11:AB:5077:DT:H71	1.82	0.60
11:AB:5209:DT:H2''	11:AB:5210:DT:H71	1.82	0.60
11:AB:5367:DT:H2''	11:AB:5368:DT:H71	1.82	0.60
11:AB:6078:DT:H2''	11:AB:6079:DT:H71	1.82	0.60
11:AB:6127:DT:H2''	11:AB:6128:DT:H71	1.82	0.60
11:AB:6312:DT:H2''	11:AB:6313:DT:H71	1.82	0.60
11:AB:6419:DT:H2''	11:AB:6420:DT:H71	1.82	0.60
11:AB:6495:DT:H2''	11:AB:6496:DT:H71	1.82	0.60
11:AB:6884:DT:H2''	11:AB:6885:DT:H71	1.82	0.60
11:AB:7043:DT:H2''	11:AB:7044:DT:H71	1.82	0.60
14:B1:11:DT:H2''	14:B1:12:DT:H71	1.82	0.60
18:B5:18:DT:H2''	18:B5:19:DT:H71	1.82	0.60
26:C1:12:DT:H71	84:H5:12:DT:H2''	1.82	0.60
86:H7:16:DT:H2''	86:H7:17:DT:H71	1.82	0.60
102:ID:14:DT:H2''	102:ID:15:DT:H71	1.82	0.60
112:JC:21:DT:H2''	112:JC:22:DT:H71	1.82	0.60
147:N3:14:DT:H2''	147:N3:15:DT:H71	1.82	0.60
178:Q5:32:DT:H2''	178:Q5:33:DT:H71	1.82	0.60
230:W3:24:DT:H2''	230:W3:25:DT:H71	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
231:W5:10:DT:H2''	231:W5:11:DT:H71	1.82	0.60
9:A9:15:DT:H2''	9:A9:16:DT:H71	1.82	0.60
11:AB:130:DT:H2''	11:AB:131:DT:H71	1.82	0.60
11:AB:177:DT:H2''	11:AB:178:DT:H71	1.82	0.60
11:AB:577:DT:H2''	11:AB:578:DT:H71	1.82	0.60
11:AB:1512:DT:H2''	11:AB:1513:DT:H71	1.82	0.60
11:AB:1546:DT:H2''	11:AB:1547:DT:H71	1.82	0.60
11:AB:1584:DT:H71	11:AB:6121:DT:H2''	1.82	0.60
11:AB:1969:DT:H2''	11:AB:1970:DT:H71	1.82	0.60
11:AB:2194:DT:H2''	11:AB:2195:DT:H71	1.82	0.60
11:AB:2226:DT:H2''	11:AB:2227:DT:H71	1.82	0.60
11:AB:3045:DT:H2''	11:AB:3046:DT:H71	1.82	0.60
11:AB:3354:DT:H2''	11:AB:3355:DT:H71	1.82	0.60
11:AB:3536:DT:H2''	11:AB:3537:DT:H71	1.82	0.60
11:AB:3563:DT:H2''	11:AB:3564:DT:H71	1.82	0.60
11:AB:4269:DT:H2''	11:AB:4270:DT:H71	1.82	0.60
11:AB:4349:DT:H2''	11:AB:4350:DT:H71	1.82	0.60
11:AB:4414:DT:H2''	11:AB:4415:DT:H71	1.82	0.60
11:AB:4617:DT:H2''	11:AB:4618:DT:H71	1.82	0.60
11:AB:4874:DT:H2''	11:AB:4875:DT:H71	1.82	0.60
11:AB:5222:DT:H2''	11:AB:5223:DT:H71	1.82	0.60
11:AB:5348:DT:H2''	11:AB:5349:DT:H71	1.82	0.60
11:AB:5437:DT:H2''	11:AB:5438:DT:H71	1.82	0.60
11:AB:5796:DT:H2''	11:AB:5797:DT:H71	1.82	0.60
11:AB:6174:DT:H2''	11:AB:6175:DT:H71	1.82	0.60
11:AB:6204:DT:H2''	11:AB:6205:DT:H71	1.82	0.60
11:AB:6225:DT:H2''	11:AB:6226:DT:H71	1.82	0.60
11:AB:6699:DT:H2''	11:AB:6700:DT:H71	1.82	0.60
11:AB:7033:DT:H2''	11:AB:7034:DT:H71	1.82	0.60
11:AB:7096:DT:H2''	11:AB:7097:DT:H71	1.82	0.60
13:AD:41:DT:H2''	13:AD:42:DT:H71	1.82	0.60
33:C9:26:DT:H2''	33:C9:27:DT:H71	1.82	0.60
42:D7:1:DT:H71	53:E7:15:DT:H2''	1.82	0.60
105:J3:17:DT:H2''	105:J3:18:DT:H71	1.82	0.60
115:K2:13:DT:H2''	115:K2:14:DT:H71	1.82	0.60
142:M9:13:DT:H2''	142:M9:14:DT:H71	1.82	0.60
144:MC:17:DT:H2''	144:MC:18:DT:H71	1.82	0.60
161:O8:4:DT:H2''	183:QC:24:DT:H71	1.82	0.60
181:Q9:33:DT:H2''	181:Q9:34:DT:H71	1.82	0.60
181:Q9:34:DT:H2''	181:Q9:35:DT:H71	1.82	0.60
204:T3:32:DT:H2''	204:T3:33:DT:H71	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
217:U9:26:DT:H2''	217:U9:27:DT:H71	1.82	0.60
11:AB:875:DT:H2''	11:AB:876:DT:H71	1.82	0.60
11:AB:965:DT:H2''	11:AB:966:DT:H71	1.82	0.60
11:AB:1350:DT:H2''	11:AB:1351:DT:H71	1.82	0.60
11:AB:1351:DT:H2''	11:AB:1352:DT:H71	1.82	0.60
11:AB:1421:DT:H2''	11:AB:1422:DT:H71	1.82	0.60
11:AB:2559:DT:H2''	11:AB:2560:DT:H71	1.82	0.60
11:AB:3016:DT:H2''	11:AB:3017:DT:H71	1.82	0.60
11:AB:3403:DT:H2''	11:AB:3404:DT:H71	1.82	0.60
11:AB:4318:DT:H2''	11:AB:4319:DT:H71	1.82	0.60
11:AB:4727:DT:H2''	11:AB:4728:DT:H71	1.82	0.60
11:AB:4923:DT:H2''	11:AB:4924:DT:H71	1.82	0.60
11:AB:5558:DT:H2''	11:AB:5559:DT:H71	1.82	0.60
11:AB:5609:DT:H2''	11:AB:5610:DT:H71	1.82	0.60
11:AB:5684:DT:H2''	11:AB:5685:DT:H71	1.82	0.60
11:AB:5774:DT:H2''	11:AB:5775:DT:H71	1.82	0.60
11:AB:6148:DT:H2''	11:AB:6149:DT:H71	1.82	0.60
11:AB:6161:DT:H2''	11:AB:6162:DT:H71	1.82	0.60
11:AB:6679:DT:H2''	11:AB:6680:DT:H71	1.82	0.60
11:AB:6700:DT:H2''	11:AB:6701:DT:H71	1.82	0.60
11:AB:6757:DT:H2''	11:AB:6758:DT:H71	1.82	0.60
11:AB:6993:DT:H2''	11:AB:6994:DT:H71	1.82	0.60
11:AB:7095:DT:H2''	11:AB:7096:DT:H71	1.82	0.60
11:AB:7132:DT:H2''	11:AB:7133:DT:H71	1.82	0.60
19:B6:23:DT:H2''	19:B6:24:DT:H71	1.82	0.60
55:E9:36:DT:H2''	55:E9:37:DT:H71	1.82	0.60
96:I6:1:DT:H2''	96:I6:2:DT:H71	1.82	0.60
103:J1:11:DT:H2''	103:J1:12:DT:H71	1.82	0.60
108:J7:18:DT:H2''	108:J7:19:DT:H71	1.82	0.60
117:K5:15:DT:H2''	117:K5:16:DT:H71	1.82	0.60
122:KA:36:DT:H2''	122:KA:37:DT:H71	1.82	0.60
125:L1:22:DT:H2''	125:L1:23:DT:H71	1.82	0.60
125:L1:46:DT:H2''	125:L1:47:DT:H71	1.82	0.60
152:N9:5:DT:H2''	152:N9:6:DT:H71	1.82	0.60
161:O8:47:DT:H2''	161:O8:48:DT:H71	1.82	0.60
166:P2:17:DT:H2''	166:P2:18:DT:H71	1.82	0.60
172:P9:10:DT:H2''	172:P9:11:DT:H71	1.82	0.60
172:P9:11:DT:H2''	172:P9:12:DT:H71	1.82	0.60
188:R7:26:DT:H2''	188:R7:27:DT:H71	1.82	0.60
192:RC:30:DT:H2''	192:RC:31:DT:H71	1.82	0.60
203:T2:6:DT:H2''	203:T2:7:DT:H71	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
214:U5:39:DT:H2''	214:U5:40:DT:H71	1.82	0.60
6:A6:24:DT:H2''	6:A6:25:DT:H71	1.82	0.60
11:AB:10:DT:H2''	11:AB:11:DT:H71	1.82	0.60
11:AB:776:DT:H2''	11:AB:777:DT:H71	1.82	0.60
11:AB:1223:DT:H2''	11:AB:1224:DT:H71	1.82	0.60
11:AB:1575:DT:H2''	11:AB:1576:DT:H71	1.82	0.60
11:AB:1878:DT:H2''	11:AB:1879:DT:H71	1.82	0.60
11:AB:2137:DT:H2''	11:AB:2138:DT:H71	1.82	0.60
11:AB:2158:DT:H2''	11:AB:2159:DT:H71	1.82	0.60
11:AB:2233:DT:H2''	11:AB:2234:DT:H71	1.82	0.60
11:AB:2508:DT:H2''	11:AB:2509:DT:H71	1.82	0.60
11:AB:3389:DT:H2''	11:AB:3390:DT:H71	1.82	0.60
11:AB:3404:DT:H2''	11:AB:3405:DT:H71	1.82	0.60
11:AB:3639:DT:H2''	11:AB:3640:DT:H71	1.82	0.60
11:AB:3667:DT:H2''	11:AB:3668:DT:H71	1.82	0.60
11:AB:3800:DT:H2''	11:AB:3801:DT:H71	1.82	0.60
11:AB:3848:DT:H2''	11:AB:3849:DT:H71	1.82	0.60
11:AB:3885:DT:H2''	11:AB:3886:DT:H71	1.82	0.60
11:AB:4165:DT:H2''	11:AB:4166:DT:H71	1.82	0.60
11:AB:4640:DT:H2''	11:AB:4641:DT:H71	1.82	0.60
11:AB:5328:DT:H2''	11:AB:5329:DT:H71	1.82	0.60
11:AB:5355:DT:H2''	11:AB:5356:DT:H71	1.82	0.60
11:AB:5466:DT:H2''	11:AB:5467:DT:H71	1.82	0.60
11:AB:5752:DT:H2''	11:AB:5753:DT:H71	1.82	0.60
11:AB:6205:DT:H2''	11:AB:6206:DT:H71	1.82	0.60
11:AB:6282:DT:H2''	11:AB:6283:DT:H71	1.82	0.60
11:AB:6790:DT:H2''	11:AB:6791:DT:H71	1.82	0.60
11:AB:7061:DT:H2''	11:AB:7062:DT:H71	1.82	0.60
11:AB:7133:DT:H2''	11:AB:7134:DT:H71	1.82	0.60
12:AC:13:DT:H2''	12:AC:14:DT:H71	1.82	0.60
16:B3:14:DT:H2''	16:B3:15:DT:H71	1.82	0.60
64:F7:27:DT:H2''	64:F7:28:DT:H71	1.82	0.60
66:F9:17:DT:H2''	66:F9:18:DT:H71	1.82	0.60
83:H3:8:DT:H2''	83:H3:9:DT:H71	1.82	0.60
109:J8:22:DT:H2''	109:J8:23:DT:H71	1.82	0.60
109:J8:23:DT:H2''	109:J8:24:DT:H71	1.82	0.60
121:K9:17:DT:H2''	121:K9:18:DT:H71	1.82	0.60
126:L2:21:DT:H2''	126:L2:22:DT:H71	1.82	0.60
166:P2:18:DT:H2''	166:P2:19:DT:H71	1.82	0.60
171:P8:18:DT:H2''	171:P8:19:DT:H71	1.82	0.60
173:PA:22:DT:H2''	173:PA:23:DT:H71	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
173:PA:23:DT:H2"	173:PA:24:DT:H71	1.82	0.60
196:S5:30:DT:H2"	196:S5:31:DT:H71	1.82	0.60
203:T2:18:DT:H2"	203:T2:19:DT:H71	1.82	0.60
219:UC:15:DT:H2"	219:UC:16:DT:H71	1.82	0.60
238:X9:46:DT:H2"	238:X9:47:DT:H71	1.82	0.60
9:A9:1:DT:H2"	9:A9:2:DT:H71	1.82	0.60
11:AB:66:DT:H2"	11:AB:67:DT:H71	1.82	0.60
11:AB:129:DT:H2"	11:AB:130:DT:H71	1.82	0.60
11:AB:917:DT:H2"	11:AB:918:DT:H71	1.82	0.60
11:AB:1463:DT:H2"	11:AB:1464:DT:H71	1.82	0.60
11:AB:1631:DT:H2"	11:AB:1632:DT:H71	1.82	0.60
11:AB:1744:DT:H2"	11:AB:1745:DT:H71	1.82	0.60
11:AB:1885:DT:H2"	11:AB:1886:DT:H71	1.82	0.60
11:AB:2046:DT:H2"	11:AB:2047:DT:H71	1.82	0.60
11:AB:2254:DT:H2"	11:AB:2255:DT:H71	1.82	0.60
11:AB:2890:DT:H2"	11:AB:2891:DT:H71	1.82	0.60
11:AB:2904:DT:H2"	11:AB:2905:DT:H71	1.82	0.60
11:AB:3362:DT:H2"	11:AB:3363:DT:H71	1.82	0.60
11:AB:3410:DT:H2"	11:AB:3411:DT:H71	1.82	0.60
11:AB:5306:DT:H2"	11:AB:5307:DT:H71	1.82	0.60
11:AB:6149:DT:H2"	11:AB:6150:DT:H71	1.82	0.60
31:C7:27:DT:H2"	31:C7:28:DT:H71	1.82	0.60
115:K2:31:DT:H2"	115:K2:32:DT:H71	1.82	0.60
122:KA:37:DT:H2"	122:KA:38:DT:H71	1.82	0.60
125:L1:23:DT:H2"	125:L1:24:DT:H71	1.82	0.60
126:L2:22:DT:H2"	126:L2:23:DT:H71	1.82	0.60
136:M2:2:DT:H2"	136:M2:3:DT:H71	1.82	0.60
161:O8:48:DT:H2"	161:O8:49:DT:H71	1.82	0.60
164:OC:18:DT:H2"	164:OC:19:DT:H71	1.82	0.60
206:T7:46:DT:H2"	206:T7:47:DT:H71	1.82	0.60
211:TD:1:DT:H2"	211:TD:2:DT:H71	1.82	0.60
11:AB:108:DT:H2"	11:AB:109:DT:H71	1.82	0.60
11:AB:2060:DT:H2"	11:AB:2061:DT:H71	1.82	0.60
11:AB:2395:DT:H2"	11:AB:2396:DT:H71	1.82	0.60
11:AB:5030:DT:H2"	11:AB:5031:DT:H71	1.82	0.60
11:AB:5843:DT:H2"	11:AB:5844:DT:H71	1.82	0.60
11:AB:5905:DT:H2"	11:AB:5906:DT:H71	1.82	0.60
11:AB:6260:DT:H2"	11:AB:6261:DT:H71	1.82	0.60
11:AB:221:DT:H2"	11:AB:222:DT:H71	1.82	0.59
11:AB:290:DT:H2"	11:AB:291:DT:H71	1.82	0.59
11:AB:382:DT:H2"	11:AB:383:DT:H71	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:803:DT:H2''	11:AB:804:DT:H71	1.82	0.59
11:AB:1111:DT:H2''	11:AB:1112:DT:H71	1.82	0.59
113:JD:15:DT:H2''	113:JD:16:DT:H71	1.82	0.59
148:N5:8:DT:H2''	148:N5:9:DT:H71	1.82	0.59
11:AB:1717:DT:H2''	11:AB:1718:DT:H71	1.82	0.59
11:AB:2548:DT:H2''	11:AB:2549:DT:H71	1.82	0.59
11:AB:3433:DT:H2''	11:AB:3434:DT:H71	1.82	0.59
32:C8:50:DT:H2''	32:C8:51:DT:H71	1.82	0.59
40:D5:15:DT:H2''	40:D5:16:DT:H71	1.82	0.59
95:I5:5:DT:H2''	95:I5:6:DT:H71	1.82	0.59
194:S2:26:DT:H2''	194:S2:27:DT:H71	1.82	0.59
11:AB:1816:DT:H2''	11:AB:1817:DT:H71	1.82	0.59
11:AB:2411:DT:H2''	11:AB:2412:DT:H71	1.82	0.59
11:AB:2814:DT:H2''	11:AB:2815:DT:H71	1.82	0.59
11:AB:2835:DT:H2''	11:AB:2836:DT:H71	1.82	0.59
11:AB:4229:DT:H2''	11:AB:4230:DT:H71	1.82	0.59
11:AB:5608:DT:H2''	11:AB:5609:DT:H71	1.82	0.59
11:AB:6184:DT:H2''	11:AB:6185:DT:H71	1.82	0.59
11:AB:6710:DT:H2''	11:AB:6711:DT:H71	1.82	0.59
40:D5:21:DT:H2''	40:D5:22:DT:H71	1.82	0.59
112:JC:20:DT:H2''	112:JC:21:DT:H71	1.82	0.59
119:K7:24:DT:H2''	119:K7:25:DT:H71	1.82	0.59
130:L7:13:DT:H2''	130:L7:14:DT:H71	1.82	0.59
149:N6:22:DT:H2''	149:N6:23:DT:H71	1.82	0.59
154:NC:15:DT:H2''	154:NC:16:DT:H71	1.82	0.59
160:O7:24:DT:H2''	160:O7:25:DT:H71	1.82	0.59
212:U2:22:DT:H2''	212:U2:23:DT:H71	1.82	0.59
11:AB:119:DT:H2''	11:AB:120:DT:H71	1.82	0.59
11:AB:1303:DT:H2''	11:AB:1304:DT:H71	1.82	0.59
11:AB:1635:DT:H2''	11:AB:1636:DT:H71	1.82	0.59
11:AB:3759:DT:H2''	11:AB:3760:DT:H71	1.82	0.59
11:AB:3979:DT:H2''	11:AB:3980:DT:H71	1.82	0.59
11:AB:4348:DT:H2''	11:AB:4349:DT:H71	1.82	0.59
11:AB:4424:DT:H2''	11:AB:4425:DT:H71	1.82	0.59
11:AB:4676:DT:H2''	11:AB:4677:DT:H71	1.82	0.59
11:AB:4714:DT:H2''	11:AB:4715:DT:H71	1.82	0.59
11:AB:5673:DT:H2''	11:AB:5674:DT:H71	1.82	0.59
11:AB:6020:DT:H2''	11:AB:6021:DT:H71	1.82	0.59
11:AB:6293:DT:H2''	11:AB:6294:DT:H71	1.82	0.59
11:AB:6913:DT:H2''	11:AB:6914:DT:H71	1.82	0.59
12:AC:15:DT:H2''	12:AC:16:DT:H71	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AD:35:DT:H2''	13:AD:36:DT:H71	1.82	0.59
41:D6:40:DT:H2''	41:D6:41:DT:H71	1.82	0.59
81:H1:18:DT:H2''	81:H1:19:DT:H71	1.82	0.59
168:P5:12:DT:H2''	168:P5:13:DT:H71	1.82	0.59
171:P8:9:DT:H2''	171:P8:10:DT:H71	1.82	0.59
184:QD:12:DT:H2''	184:QD:13:DT:H71	1.82	0.59
195:S3:12:DT:H2''	195:S3:13:DT:H71	1.82	0.59
211:TD:5:DT:H2''	211:TD:6:DT:H71	1.82	0.59
4:A4:29:DT:H2''	4:A4:30:DT:H71	1.82	0.59
11:AB:2020:DT:H2''	11:AB:2021:DT:H71	1.82	0.59
11:AB:3138:DT:H2''	11:AB:3139:DT:H71	1.82	0.59
11:AB:4536:DT:H2''	11:AB:4537:DT:H71	1.82	0.59
11:AB:5377:DT:H2''	11:AB:5378:DT:H71	1.82	0.59
11:AB:5997:DT:H2''	11:AB:5998:DT:H71	1.82	0.59
11:AB:6574:DT:H2''	11:AB:6575:DT:H71	1.82	0.59
129:L6:7:DT:H2''	129:L6:8:DT:H71	1.82	0.59
136:M2:12:DT:H2''	136:M2:13:DT:H71	1.82	0.59
144:MC:15:DT:H2''	144:MC:16:DT:H71	1.82	0.59
198:S8:9:DT:H2''	198:S8:10:DT:H71	1.82	0.59
124:KD:21:DT:H2''	124:KD:22:DT:H71	1.82	0.59
11:AB:5893:DG:C2'	11:AB:5894:DT:H71	2.34	0.57
11:AB:6842:DG:C2'	11:AB:6843:DT:H71	2.34	0.57
11:AB:1315:DG:C2'	11:AB:1316:DT:H71	2.34	0.57
11:AB:1739:DG:C2'	11:AB:1740:DT:H71	2.34	0.57
11:AB:3600:DG:C2'	11:AB:3601:DT:H71	2.34	0.57
11:AB:3604:DG:C2'	11:AB:3605:DT:H71	2.34	0.57
11:AB:4029:DG:C2'	11:AB:4030:DT:H71	2.34	0.57
11:AB:4180:DG:C2'	11:AB:4181:DT:H71	2.34	0.57
11:AB:4332:DG:C2'	11:AB:4333:DT:H71	2.34	0.57
11:AB:4740:DG:C2'	11:AB:4741:DT:H71	2.34	0.57
11:AB:5434:DG:C2'	11:AB:5435:DT:H71	2.34	0.57
11:AB:5837:DG:C2'	11:AB:5838:DT:H71	2.34	0.57
11:AB:6565:DG:C2'	11:AB:6566:DT:H71	2.34	0.57
19:B6:17:DG:C2'	19:B6:18:DT:H71	2.34	0.57
64:F7:15:DG:C2'	64:F7:16:DT:H71	2.34	0.57
82:H2:36:DG:C2'	82:H2:37:DT:H71	2.34	0.57
232:W7:23:DG:C2'	232:W7:24:DT:H71	2.34	0.57
2:A2:26:DG:C2'	2:A2:27:DT:H71	2.34	0.57
11:AB:1105:DG:C2'	11:AB:1106:DT:H71	2.34	0.57
11:AB:1275:DG:C2'	11:AB:1276:DT:H71	2.34	0.57
11:AB:1443:DG:C2'	11:AB:1444:DT:H71	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2926:DG:C2'	11:AB:2927:DT:H71	2.34	0.57
11:AB:3040:DG:C2'	11:AB:3041:DT:H71	2.34	0.57
11:AB:3208:DG:C2'	11:AB:3209:DT:H71	2.34	0.57
11:AB:3466:DG:C2'	11:AB:3467:DT:H71	2.34	0.57
11:AB:3739:DG:C2'	11:AB:3740:DT:H71	2.34	0.57
11:AB:5168:DG:C2'	11:AB:5169:DT:H71	2.34	0.57
11:AB:5413:DG:C2'	11:AB:5414:DT:H71	2.34	0.57
11:AB:6874:DG:C2'	11:AB:6875:DT:H71	2.34	0.57
31:C7:15:DG:C2'	31:C7:16:DT:H71	2.34	0.57
35:CC:18:DG:C2'	35:CC:19:DT:H71	2.34	0.57
56:EA:5:DG:C2'	56:EA:6:DT:H71	2.34	0.57
72:G3:11:DG:C2'	72:G3:12:DT:H71	2.34	0.57
51:E5:8:DG:C2'	51:E5:9:DT:H71	2.34	0.57
96:I6:10:DG:C2'	96:I6:11:DT:H71	2.35	0.57
11:AB:4338:DG:C2'	11:AB:4339:DT:H71	2.34	0.56
8:A8:16:DG:C2'	126:L2:21:DT:H71	2.34	0.56
11:AB:541:DG:C2'	11:AB:542:DT:H71	2.34	0.56
11:AB:2366:DG:C2'	11:AB:2367:DT:H71	2.34	0.56
11:AB:3044:DG:C2'	11:AB:3045:DT:H71	2.34	0.56
11:AB:5557:DG:C2'	11:AB:5558:DT:H71	2.34	0.56
11:AB:6357:DG:C2'	11:AB:6358:DT:H71	2.34	0.56
11:AB:6901:DG:C2'	11:AB:6902:DT:H71	2.34	0.56
14:B1:7:DG:C2'	117:K5:26:DT:H71	2.34	0.56
26:C1:4:DG:C2'	26:C1:5:DT:H71	2.34	0.56
48:E1:21:DG:C2'	48:E1:22:DT:H71	2.34	0.56
199:S9:17:DT:H71	226:V9:4:DG:C2'	2.34	0.56
11:AB:1349:DG:C2'	11:AB:1350:DT:H71	2.35	0.56
11:AB:3743:DG:C2'	11:AB:3744:DT:H71	2.35	0.56
58:ED:9:DG:C2'	58:ED:10:DT:H71	2.35	0.56
11:AB:2038:DG:C2'	11:AB:2039:DT:H71	2.35	0.56
11:AB:2263:DG:H1'	11:AB:2264:DC:H5'	1.92	0.52
11:AB:5866:DG:H1'	11:AB:5867:DC:H5'	1.92	0.52
43:D8:35:DG:H1'	117:K5:47:DC:H5'	1.92	0.52
11:AB:2668:DG:H1'	11:AB:2669:DC:H5'	1.92	0.52
11:AB:2674:DG:H1'	11:AB:2675:DC:H5'	1.92	0.52
11:AB:4947:DG:H1'	11:AB:4948:DC:H5'	1.92	0.52
11:AB:4996:DG:H1'	11:AB:4997:DC:H5'	1.92	0.52
11:AB:5017:DG:H1'	11:AB:5018:DC:H5'	1.92	0.52
32:C8:25:DG:H1'	32:C8:26:DC:H5'	1.92	0.52
126:L2:28:DC:H5'	224:V7:16:DG:H1'	1.92	0.52
188:R7:8:DG:H1'	188:R7:9:DC:H5'	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
228:VC:29:DG:H1'	228:VC:30:DC:H5'	1.92	0.52
2:A2:3:DG:H1'	2:A2:4:DC:H5'	1.92	0.52
11:AB:558:DG:H1'	11:AB:559:DC:H5'	1.92	0.52
11:AB:642:DG:H1'	11:AB:643:DC:H5'	1.92	0.52
11:AB:766:DG:H1'	11:AB:767:DC:H5'	1.92	0.52
11:AB:1092:DG:H1'	11:AB:1093:DC:H5'	1.92	0.52
11:AB:3316:DG:H1'	11:AB:3317:DC:H5'	1.92	0.52
11:AB:3775:DG:H1'	11:AB:3776:DC:H5'	1.92	0.52
11:AB:4480:DG:H1'	11:AB:4481:DC:H5'	1.92	0.52
11:AB:4757:DG:H1'	11:AB:4758:DC:H5'	1.92	0.52
11:AB:5893:DG:H2''	11:AB:5894:DT:H71	1.92	0.52
11:AB:6042:DG:H1'	11:AB:6043:DC:H5'	1.92	0.52
39:D3:32:DG:H1'	39:D3:33:DC:H5'	1.92	0.52
49:E2:24:DC:H5'	222:V3:25:DG:H1'	1.92	0.52
88:H9:10:DG:H1'	133:LA:18:DC:H5'	1.92	0.52
103:J1:24:DG:H1'	103:J1:25:DC:H5'	1.92	0.52
149:N6:2:DG:H1'	149:N6:3:DC:H5'	1.92	0.52
175:PD:5:DG:H1'	175:PD:6:DC:H5'	1.92	0.52
192:RC:33:DG:H1'	192:RC:34:DC:H5'	1.92	0.52
204:T3:1:DG:H1'	204:T3:2:DC:H5'	1.92	0.52
206:T7:9:DG:H1'	206:T7:10:DC:H5'	1.92	0.52
206:T7:23:DG:H1'	206:T7:24:DC:H5'	1.92	0.52
231:W5:13:DG:H1'	231:W5:14:DC:H5'	1.92	0.52
11:AB:886:DG:H1'	11:AB:887:DC:H5'	1.92	0.52
11:AB:1282:DG:H1'	11:AB:1283:DC:H5'	1.92	0.52
11:AB:1739:DG:H2''	11:AB:1740:DT:H71	1.92	0.52
11:AB:2326:DG:H1'	11:AB:2327:DC:H5'	1.92	0.52
11:AB:2524:DG:H1'	11:AB:2525:DC:H5'	1.92	0.52
11:AB:2851:DG:H1'	11:AB:2852:DC:H5'	1.92	0.52
11:AB:2885:DG:H1'	11:AB:2886:DC:H5'	1.92	0.52
11:AB:3449:DG:H1'	11:AB:3450:DC:H5'	1.92	0.52
11:AB:3606:DG:H1'	11:AB:3607:DC:H5'	1.92	0.52
11:AB:3697:DG:H1'	11:AB:3698:DC:H5'	1.92	0.52
11:AB:3986:DG:H1'	11:AB:3987:DC:H5'	1.92	0.52
11:AB:4145:DG:H1'	11:AB:4146:DC:H5'	1.92	0.52
11:AB:4466:DG:H1'	11:AB:4467:DC:H5'	1.92	0.52
11:AB:4850:DG:H1'	11:AB:4851:DC:H5'	1.92	0.52
11:AB:4971:DG:H1'	11:AB:4972:DC:H5'	1.92	0.52
11:AB:5391:DG:H1'	11:AB:5392:DC:H5'	1.92	0.52
11:AB:5413:DG:H2''	11:AB:5414:DT:H71	1.92	0.52
11:AB:5434:DG:H2''	11:AB:5435:DT:H71	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6646:DG:H1'	11:AB:6647:DC:H5'	1.92	0.52
11:AB:6821:DG:H1'	11:AB:6822:DC:H5'	1.92	0.52
11:AB:6842:DG:H2''	11:AB:6843:DT:H71	1.92	0.52
20:B7:9:DG:H1'	20:B7:10:DC:H5'	1.92	0.52
31:C7:15:DG:H2''	31:C7:16:DT:H71	1.92	0.52
44:D9:27:DG:H1'	44:D9:28:DC:H5'	1.92	0.52
45:DA:14:DG:H1'	45:DA:15:DC:H5'	1.92	0.52
76:G8:4:DG:H1'	109:J8:15:DC:H5'	1.92	0.52
82:H2:47:DG:H1'	82:H2:48:DC:H5'	1.92	0.52
99:I9:10:DG:H1'	99:I9:11:DC:H5'	1.92	0.52
109:J8:34:DG:H1'	109:J8:35:DC:H5'	1.92	0.52
119:K7:39:DG:H1'	119:K7:40:DC:H5'	1.92	0.52
165:OD:55:DG:H1'	165:OD:56:DC:H5'	1.92	0.52
166:P2:9:DG:H1'	166:P2:10:DC:H5'	1.92	0.52
167:P3:9:DG:H1'	167:P3:10:DC:H5'	1.92	0.52
180:Q8:5:DG:H1'	180:Q8:6:DC:H5'	1.92	0.52
232:W7:19:DG:H1'	232:W7:20:DC:H5'	1.92	0.52
232:W7:23:DG:H2''	232:W7:24:DT:H71	1.92	0.52
1:A1:15:DG:H1'	1:A1:16:DC:H5'	1.92	0.52
11:AB:635:DG:H1'	11:AB:636:DC:H5'	1.92	0.52
11:AB:833:DG:H1'	11:AB:834:DC:H5'	1.92	0.52
11:AB:1275:DG:H2''	11:AB:1276:DT:H71	1.92	0.52
11:AB:1395:DG:H1'	11:AB:1396:DC:H5'	1.92	0.52
11:AB:1494:DG:H1'	11:AB:1495:DC:H5'	1.92	0.52
11:AB:1521:DG:H1'	11:AB:1522:DC:H5'	1.92	0.52
11:AB:1979:DG:H1'	11:AB:1980:DC:H5'	1.92	0.52
11:AB:3293:DG:H1'	11:AB:3294:DC:H5'	1.92	0.52
11:AB:3456:DG:H1'	11:AB:3457:DC:H5'	1.92	0.52
11:AB:3491:DG:H1'	11:AB:3492:DC:H5'	1.92	0.52
11:AB:3566:DG:H1'	11:AB:3567:DC:H5'	1.93	0.52
11:AB:3600:DG:H2''	11:AB:3601:DT:H71	1.92	0.52
11:AB:3621:DG:H1'	11:AB:3622:DC:H5'	1.92	0.52
11:AB:3739:DG:H2''	11:AB:3740:DT:H71	1.92	0.52
11:AB:4105:DG:H1'	11:AB:4106:DC:H5'	1.92	0.52
11:AB:4133:DG:H1'	11:AB:4134:DC:H5'	1.92	0.52
11:AB:4180:DG:H2''	11:AB:4181:DT:H71	1.92	0.52
11:AB:4608:DG:H1'	11:AB:4609:DC:H5'	1.92	0.52
11:AB:4622:DG:H1'	11:AB:4623:DC:H5'	1.92	0.52
11:AB:5253:DG:H1'	11:AB:5254:DC:H5'	1.92	0.52
11:AB:5301:DG:H1'	11:AB:5302:DC:H5'	1.92	0.52
11:AB:5430:DG:H1'	11:AB:5431:DC:H5'	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5764:DG:H1'	11:AB:5765:DC:H5'	1.92	0.52
11:AB:5837:DG:H2''	11:AB:5838:DT:H71	1.92	0.52
11:AB:6492:DG:H1'	11:AB:6493:DC:H5'	1.92	0.52
11:AB:7231:DG:H1'	11:AB:7232:DC:H5'	1.92	0.52
14:B1:8:DC:H5'	117:K5:25:DG:H1'	1.92	0.52
19:B6:17:DG:H2''	19:B6:18:DT:H71	1.92	0.52
22:B9:41:DG:H1'	22:B9:42:DC:H5'	1.92	0.52
31:C7:6:DC:H5'	49:E2:30:DG:H1'	1.92	0.52
32:C8:39:DG:H1'	32:C8:40:DC:H5'	1.92	0.52
37:D1:8:DC:H5'	138:M5:28:DG:H1'	1.92	0.52
56:EA:5:DG:H2''	56:EA:6:DT:H71	1.92	0.52
61:F3:6:DG:H1'	61:F3:7:DC:H5'	1.92	0.52
74:G6:29:DG:H1'	74:G6:30:DC:H5'	1.92	0.52
88:H9:16:DG:H1'	88:H9:17:DC:H5'	1.92	0.52
91:HD:17:DG:H1'	91:HD:18:DC:H5'	1.92	0.52
94:I3:37:DG:H1'	94:I3:38:DC:H5'	1.92	0.52
94:I3:46:DC:H5'	117:K5:39:DG:H1'	1.92	0.52
95:I5:14:DG:H1'	138:M5:36:DC:H5'	1.92	0.52
108:J7:55:DG:H1'	108:J7:56:DC:H5'	1.92	0.52
119:K7:3:DG:H1'	119:K7:4:DC:H5'	1.92	0.52
123:KC:19:DG:H1'	123:KC:20:DC:H5'	1.92	0.52
143:MA:14:DG:H1'	143:MA:15:DC:H5'	1.92	0.52
146:N2:22:DG:H1'	146:N2:23:DC:H5'	1.92	0.52
154:NC:24:DG:H1'	192:RC:21:DC:H5'	1.92	0.52
154:NC:30:DG:H1'	154:NC:31:DC:H5'	1.92	0.52
160:O7:13:DG:H1'	160:O7:14:DC:H5'	1.92	0.52
188:R7:29:DG:H1'	188:R7:30:DC:H5'	1.92	0.52
199:S9:10:DG:H1'	199:S9:11:DC:H5'	1.92	0.52
200:SA:12:DG:H1'	200:SA:13:DC:H5'	1.92	0.52
220:UD:9:DG:H1'	220:UD:10:DC:H5'	1.92	0.52
220:UD:19:DG:H1'	220:UD:20:DC:H5'	1.92	0.52
225:V8:20:DG:H1'	225:V8:21:DC:H5'	1.92	0.52
11:AB:228:DG:H1'	11:AB:229:DC:H5'	1.92	0.51
11:AB:1811:DG:H1'	11:AB:1812:DC:H5'	1.92	0.51
11:AB:1922:DG:H1'	11:AB:1923:DC:H5'	1.92	0.51
11:AB:3040:DG:H2''	11:AB:3041:DT:H71	1.92	0.51
11:AB:4139:DG:H1'	11:AB:4140:DC:H5'	1.92	0.51
11:AB:4322:DG:H1'	11:AB:4323:DC:H5'	1.92	0.51
11:AB:4489:DG:H1'	11:AB:4490:DC:H5'	1.92	0.51
11:AB:4538:DG:H1'	11:AB:4539:DC:H5'	1.92	0.51
11:AB:4809:DG:H1'	11:AB:4810:DC:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5024:DG:H1'	11:AB:5025:DC:H5'	1.92	0.51
11:AB:5323:DG:H1'	11:AB:5324:DC:H5'	1.92	0.51
11:AB:5681:DG:H1'	11:AB:5682:DC:H5'	1.92	0.51
11:AB:5782:DG:H1'	11:AB:5783:DC:H5'	1.92	0.51
11:AB:5860:DG:H1'	11:AB:5861:DC:H5'	1.93	0.51
11:AB:6730:DG:H1'	11:AB:6731:DC:H5'	1.92	0.51
57:EC:14:DG:H1'	57:EC:15:DC:H5'	1.92	0.51
60:F2:12:DG:H1'	60:F2:13:DC:H5'	1.92	0.51
62:F5:18:DG:H1'	62:F5:19:DC:H5'	1.92	0.51
92:I1:23:DG:H1'	92:I1:24:DC:H5'	1.92	0.51
96:I6:10:DG:H2''	96:I6:11:DT:H71	1.92	0.51
101:IC:5:DG:H1'	101:IC:6:DC:H5'	1.92	0.51
104:J2:21:DG:H1'	230:W3:36:DC:H5'	1.92	0.51
125:L1:55:DG:H1'	125:L1:56:DC:H5'	1.92	0.51
131:L8:17:DG:H1'	146:N2:15:DC:H5'	1.92	0.51
139:M6:4:DG:H1'	139:M6:5:DC:H5'	1.92	0.51
147:N3:20:DG:H1'	147:N3:21:DC:H5'	1.92	0.51
170:P7:12:DG:H1'	170:P7:13:DC:H5'	1.92	0.51
182:QA:20:DG:H1'	182:QA:21:DC:H5'	1.92	0.51
186:R3:19:DG:H1'	186:R3:20:DC:H5'	1.92	0.51
196:S5:13:DG:H1'	196:S5:14:DC:H5'	1.92	0.51
203:T2:10:DG:H1'	203:T2:11:DC:H5'	1.92	0.51
205:T5:2:DG:H1'	205:T5:3:DC:H5'	1.92	0.51
211:TD:41:DG:H1'	211:TD:42:DC:H5'	1.92	0.51
238:X9:53:DG:H1'	238:X9:54:DC:H5'	1.92	0.51
4:A4:11:DG:H1'	4:A4:12:DC:H5'	1.92	0.51
11:AB:999:DG:H1'	11:AB:1000:DC:H5'	1.92	0.51
11:AB:1038:DG:H1'	11:AB:1039:DC:H5'	1.92	0.51
11:AB:1053:DG:H1'	11:AB:1054:DC:H5'	1.92	0.51
11:AB:1315:DG:H2''	11:AB:1316:DT:H71	1.92	0.51
11:AB:1703:DG:H1'	11:AB:1704:DC:H5'	1.92	0.51
11:AB:2035:DG:H1'	11:AB:2036:DC:H5'	1.92	0.51
11:AB:2273:DG:H1'	11:AB:2274:DC:H5'	1.92	0.51
11:AB:2556:DG:H1'	11:AB:2557:DC:H5'	1.92	0.51
11:AB:2588:DG:H1'	11:AB:2589:DC:H5'	1.92	0.51
11:AB:3461:DG:H1'	11:AB:3462:DC:H5'	1.92	0.51
11:AB:3604:DG:H2''	11:AB:3605:DT:H71	1.92	0.51
11:AB:4071:DG:H1'	11:AB:4072:DC:H5'	1.92	0.51
11:AB:4118:DG:H1'	11:AB:4119:DC:H5'	1.92	0.51
11:AB:4202:DG:H1'	11:AB:4203:DC:H5'	1.92	0.51
11:AB:4332:DG:H2''	11:AB:4333:DT:H71	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4583:DG:H1'	11:AB:4584:DC:H5'	1.92	0.51
11:AB:4629:DG:H1'	11:AB:4630:DC:H5'	1.92	0.51
11:AB:5365:DG:H1'	11:AB:5366:DC:H5'	1.92	0.51
11:AB:5594:DG:H1'	11:AB:5595:DC:H5'	1.92	0.51
11:AB:5772:DG:H1'	11:AB:5773:DC:H5'	1.92	0.51
11:AB:6146:DG:H1'	11:AB:6147:DC:H5'	1.92	0.51
11:AB:6565:DG:H2''	11:AB:6566:DT:H71	1.92	0.51
11:AB:6831:DG:H1'	11:AB:6832:DC:H5'	1.92	0.51
11:AB:7050:DG:H1'	11:AB:7051:DC:H5'	1.92	0.51
12:AC:22:DG:H1'	65:F8:1:DC:H5'	1.92	0.51
27:C2:20:DG:H1'	27:C2:21:DC:H5'	1.92	0.51
32:C8:47:DG:H1'	32:C8:48:DC:H5'	1.92	0.51
38:D2:17:DG:H1'	38:D2:18:DC:H5'	1.92	0.51
64:F7:15:DG:H2''	64:F7:16:DT:H71	1.92	0.51
74:G6:35:DG:H1'	74:G6:36:DC:H5'	1.92	0.51
92:I1:17:DG:H1'	92:I1:18:DC:H5'	1.92	0.51
109:J8:40:DG:H1'	109:J8:41:DC:H5'	1.92	0.51
120:K8:6:DG:H1'	120:K8:7:DC:H5'	1.92	0.51
131:L8:18:DC:H5'	146:N2:14:DG:H1'	1.92	0.51
158:O5:50:DG:H1'	158:O5:51:DC:H5'	1.92	0.51
169:P6:18:DG:H1'	169:P6:19:DC:H5'	1.92	0.51
185:R2:11:DG:H1'	185:R2:12:DC:H5'	1.92	0.51
200:SA:6:DG:H1'	200:SA:7:DC:H5'	1.92	0.51
214:U5:21:DG:H1'	214:U5:22:DC:H5'	1.92	0.51
236:X5:5:DG:H1'	236:X5:6:DC:H5'	1.92	0.51
11:AB:321:DG:H1'	11:AB:322:DC:H5'	1.92	0.51
11:AB:390:DG:H1'	11:AB:391:DC:H5'	1.92	0.51
11:AB:457:DG:H1'	11:AB:458:DC:H5'	1.92	0.51
11:AB:499:DG:H1'	11:AB:500:DC:H5'	1.92	0.51
11:AB:1459:DG:H1'	11:AB:1460:DC:H5'	1.92	0.51
11:AB:1501:DG:H1'	11:AB:1502:DC:H5'	1.92	0.51
11:AB:2729:DG:H1'	11:AB:2730:DC:H5'	1.92	0.51
11:AB:3917:DG:H1'	11:AB:3918:DC:H5'	1.92	0.51
11:AB:3998:DG:H1'	11:AB:3999:DC:H5'	1.92	0.51
11:AB:4029:DG:H2''	11:AB:4030:DT:H71	1.92	0.51
11:AB:4711:DG:H1'	11:AB:4712:DC:H5'	1.92	0.51
11:AB:4967:DG:H1'	11:AB:4968:DC:H5'	1.92	0.51
11:AB:5168:DG:H2''	11:AB:5169:DT:H71	1.92	0.51
11:AB:6004:DG:H1'	11:AB:6005:DC:H5'	1.92	0.51
11:AB:6755:DG:H1'	11:AB:6756:DC:H5'	1.92	0.51
11:AB:6918:DG:H1'	11:AB:6919:DC:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6940:DG:H1'	11:AB:6941:DC:H5'	1.92	0.51
27:C2:6:DG:H1'	27:C2:7:DC:H5'	1.92	0.51
29:C5:42:DG:H1'	223:V5:1:DC:H5'	1.93	0.51
51:E5:11:DG:H1'	51:E5:12:DC:H5'	1.92	0.51
61:F3:15:DG:H1'	61:F3:16:DC:H5'	1.92	0.51
72:G3:11:DG:H2''	72:G3:12:DT:H71	1.92	0.51
82:H2:5:DG:H1'	82:H2:6:DC:H5'	1.92	0.51
85:H6:17:DG:H1'	85:H6:18:DC:H5'	1.92	0.51
90:HC:15:DG:H1'	90:HC:16:DC:H5'	1.92	0.51
98:I8:38:DC:H5'	123:KC:16:DG:H1'	1.92	0.51
109:J8:53:DG:H1'	109:J8:54:DC:H5'	1.92	0.51
122:KA:13:DG:H1'	122:KA:14:DC:H5'	1.92	0.51
132:L9:12:DG:H1'	132:L9:13:DC:H5'	1.92	0.51
136:M2:18:DG:H1'	136:M2:19:DC:H5'	1.92	0.51
139:M6:21:DG:H1'	139:M6:22:DC:H5'	1.92	0.51
140:M7:16:DG:H1'	140:M7:17:DC:H5'	1.92	0.51
147:N3:29:DC:H5'	204:T3:14:DG:H1'	1.92	0.51
158:O5:27:DG:H1'	198:S8:18:DC:H5'	1.92	0.51
174:PC:26:DG:H1'	174:PC:27:DC:H5'	1.92	0.51
178:Q5:5:DG:H1'	178:Q5:6:DC:H5'	1.92	0.51
194:S2:15:DG:H1'	194:S2:16:DC:H5'	1.92	0.51
195:S3:5:DG:H1'	195:S3:6:DC:H5'	1.92	0.51
206:T7:2:DG:H1'	206:T7:3:DC:H5'	1.92	0.51
222:V3:10:DG:H1'	222:V3:11:DC:H5'	1.92	0.51
238:X9:4:DG:H1'	238:X9:5:DC:H5'	1.92	0.51
6:A6:9:DG:H1'	6:A6:10:DC:H5'	1.92	0.51
11:AB:20:DG:H1'	11:AB:21:DC:H5'	1.92	0.51
11:AB:61:DG:H1'	11:AB:62:DC:H5'	1.92	0.51
11:AB:1284:DG:H1'	11:AB:1285:DC:H5'	1.92	0.51
11:AB:1429:DG:H1'	11:AB:1430:DC:H5'	1.92	0.51
11:AB:1883:DG:H1'	11:AB:1884:DC:H5'	1.92	0.51
11:AB:1898:DG:H1'	11:AB:1899:DC:H5'	1.92	0.51
11:AB:2654:DG:H1'	11:AB:2655:DC:H5'	1.92	0.51
11:AB:3168:DG:H1'	11:AB:3169:DC:H5'	1.92	0.51
11:AB:3466:DG:H2''	11:AB:3467:DT:H71	1.92	0.51
11:AB:3679:DC:H5'	11:AB:4518:DG:H1'	1.92	0.51
11:AB:3838:DG:H1'	11:AB:3839:DC:H5'	1.92	0.51
11:AB:3888:DG:H1'	11:AB:3889:DC:H5'	1.92	0.51
11:AB:4400:DG:H1'	11:AB:4401:DC:H5'	1.92	0.51
11:AB:4510:DG:H1'	11:AB:4511:DC:H5'	1.92	0.51
11:AB:4702:DG:H1'	11:AB:4703:DC:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4902:DG:H1'	11:AB:4903:DC:H5'	1.92	0.51
11:AB:5045:DG:H1'	11:AB:5046:DC:H5'	1.92	0.51
11:AB:5483:DG:H1'	11:AB:5484:DC:H5'	1.92	0.51
11:AB:6050:DG:H1'	11:AB:6051:DC:H5'	1.92	0.51
11:AB:6752:DG:H1'	11:AB:6753:DC:H5'	1.92	0.51
11:AB:6825:DG:H1'	11:AB:6826:DC:H5'	1.92	0.51
11:AB:6874:DG:H2''	11:AB:6875:DT:H71	1.92	0.51
11:AB:7072:DG:H1'	11:AB:7073:DC:H5'	1.92	0.51
11:AB:7145:DG:H1'	11:AB:7146:DC:H5'	1.92	0.51
12:AC:18:DG:H1'	12:AC:19:DC:H5'	1.92	0.51
14:B1:21:DG:H1'	14:B1:22:DC:H5'	1.92	0.51
30:C6:17:DG:H1'	30:C6:18:DC:H5'	1.92	0.51
37:D1:17:DG:H1'	37:D1:18:DC:H5'	1.92	0.51
38:D2:11:DG:H1'	38:D2:12:DC:H5'	1.92	0.51
43:D8:9:DG:H1'	43:D8:10:DC:H5'	1.92	0.51
50:E3:2:DG:H1'	50:E3:3:DC:H5'	1.92	0.51
52:E6:33:DG:H1'	52:E6:34:DC:H5'	1.92	0.51
54:E8:26:DG:H1'	54:E8:27:DC:H5'	1.92	0.51
69:FD:44:DG:H1'	69:FD:45:DC:H5'	1.92	0.51
79:GC:14:DG:H1'	98:I8:31:DC:H5'	1.92	0.51
101:IC:19:DG:H1'	101:IC:20:DC:H5'	1.92	0.51
102:ID:30:DG:H1'	102:ID:31:DC:H5'	1.92	0.51
104:J2:3:DG:H1'	104:J2:4:DC:H5'	1.92	0.51
104:J2:26:DG:H1'	104:J2:27:DC:H5'	1.92	0.51
106:J5:30:DG:H1'	106:J5:31:DC:H5'	1.92	0.51
109:J8:12:DG:H1'	109:J8:13:DC:H5'	1.92	0.51
110:J9:20:DG:H1'	110:J9:21:DC:H5'	1.92	0.51
113:JD:30:DG:H1'	113:JD:31:DC:H5'	1.92	0.51
122:KA:8:DC:H5'	209:TA:18:DG:H1'	1.92	0.51
153:NA:15:DG:H1'	153:NA:16:DC:H5'	1.92	0.51
154:NC:26:DG:H1'	154:NC:27:DC:H5'	1.92	0.51
189:R8:28:DG:H1'	189:R8:29:DC:H5'	1.92	0.51
190:R9:28:DG:H1'	190:R9:29:DC:H5'	1.92	0.51
211:TD:10:DG:H1'	211:TD:11:DC:H5'	1.92	0.51
11:AB:44:DG:H1'	11:AB:45:DC:H5'	1.92	0.51
11:AB:526:DG:H1'	11:AB:527:DC:H5'	1.92	0.51
11:AB:856:DG:H1'	11:AB:857:DC:H5'	1.92	0.51
11:AB:865:DC:H5'	11:AB:6788:DG:H1'	1.92	0.51
11:AB:1770:DG:H1'	11:AB:1771:DC:H5'	1.92	0.51
11:AB:3105:DG:H1'	11:AB:3106:DC:H5'	1.92	0.51
11:AB:3369:DG:H1'	11:AB:3370:DC:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3442:DG:H1'	11:AB:3443:DC:H5'	1.92	0.51
11:AB:3811:DG:H1'	11:AB:3812:DC:H5'	1.92	0.51
11:AB:3871:DG:H1'	11:AB:3872:DC:H5'	1.92	0.51
11:AB:4061:DG:H1'	11:AB:4062:DC:H5'	1.92	0.51
11:AB:5058:DG:H1'	11:AB:5059:DC:H5'	1.92	0.51
11:AB:5176:DG:H1'	11:AB:5177:DC:H5'	1.92	0.51
11:AB:5277:DG:H1'	11:AB:5278:DC:H5'	1.92	0.51
11:AB:5756:DG:H1'	11:AB:5757:DC:H5'	1.92	0.51
11:AB:6223:DG:H1'	11:AB:6224:DC:H5'	1.93	0.51
11:AB:6463:DG:H1'	11:AB:6464:DC:H5'	1.92	0.51
11:AB:6907:DG:H1'	11:AB:6908:DC:H5'	1.92	0.51
11:AB:6997:DG:H1'	11:AB:6998:DC:H5'	1.92	0.51
11:AB:7012:DG:H1'	11:AB:7013:DC:H5'	1.92	0.51
15:B2:14:DC:H5'	30:C6:7:DG:H1'	1.92	0.51
24:BC:15:DG:H1'	24:BC:16:DC:H5'	1.92	0.51
24:BC:27:DG:H1'	35:CC:17:DC:H5'	1.92	0.51
30:C6:29:DC:H5'	73:G5:7:DG:H1'	1.92	0.51
30:C6:31:DG:H1'	30:C6:32:DC:H5'	1.92	0.51
38:D2:14:DG:H1'	38:D2:15:DC:H5'	1.92	0.51
69:FD:31:DG:H1'	69:FD:32:DC:H5'	1.92	0.51
74:G6:21:DG:H1'	74:G6:22:DC:H5'	1.92	0.51
75:G7:19:DC:H5'	197:S7:10:DG:H1'	1.92	0.51
79:GC:12:DG:H1'	79:GC:13:DC:H5'	1.92	0.51
82:H2:43:DG:H1'	82:H2:44:DC:H5'	1.92	0.51
85:H6:21:DG:H1'	85:H6:22:DC:H5'	1.92	0.51
94:I3:55:DG:H1'	94:I3:56:DC:H5'	1.92	0.51
99:I9:21:DG:H1'	99:I9:22:DC:H5'	1.92	0.51
110:J9:18:DG:H1'	110:J9:19:DC:H5'	1.92	0.51
113:JD:38:DG:H1'	227:VA:1:DC:H5'	1.92	0.51
125:L1:12:DG:H1'	125:L1:13:DC:H5'	1.92	0.51
133:LA:11:DC:H5'	182:QA:14:DG:H1'	1.92	0.51
140:M7:13:DG:H1'	140:M7:14:DC:H5'	1.92	0.51
150:N7:22:DG:H1'	150:N7:23:DC:H5'	1.92	0.51
183:QC:21:DG:H1'	183:QC:22:DC:H5'	1.92	0.51
185:R2:15:DG:H1'	185:R2:16:DC:H5'	1.92	0.51
186:R3:11:DG:H1'	186:R3:12:DC:H5'	1.92	0.51
195:S3:2:DG:H1'	195:S3:3:DC:H5'	1.92	0.51
11:AB:14:DG:H1'	11:AB:15:DC:H5'	1.92	0.51
11:AB:548:DG:H1'	11:AB:549:DC:H5'	1.92	0.51
11:AB:913:DG:H1'	11:AB:914:DC:H5'	1.92	0.51
11:AB:1267:DG:H1'	11:AB:1268:DC:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1667:DG:H1'	11:AB:1668:DC:H5'	1.92	0.51
11:AB:1971:DG:H1'	11:AB:1972:DC:H5'	1.92	0.51
11:AB:2171:DG:H1'	11:AB:2172:DC:H5'	1.92	0.51
11:AB:3806:DG:H1'	11:AB:3807:DC:H5'	1.92	0.51
11:AB:4025:DG:H1'	11:AB:4026:DC:H5'	1.92	0.51
11:AB:4063:DG:H1'	11:AB:4064:DC:H5'	1.92	0.51
11:AB:4074:DG:H1'	11:AB:4075:DC:H5'	1.92	0.51
11:AB:4515:DG:H1'	11:AB:4516:DC:H5'	1.92	0.51
11:AB:4574:DG:H1'	11:AB:4575:DC:H5'	1.92	0.51
11:AB:4625:DG:H1'	11:AB:4626:DC:H5'	1.92	0.51
11:AB:5548:DG:H1'	11:AB:5549:DC:H5'	1.92	0.51
11:AB:5749:DG:H1'	11:AB:5750:DC:H5'	1.92	0.51
11:AB:5946:DG:H1'	11:AB:5947:DC:H5'	1.92	0.51
11:AB:6298:DG:H1'	11:AB:6299:DC:H5'	1.92	0.51
13:AD:43:DG:H1'	13:AD:44:DC:H5'	1.92	0.51
24:BC:8:DG:H1'	24:BC:9:DC:H5'	1.92	0.51
32:C8:8:DG:H1'	32:C8:9:DC:H5'	1.92	0.51
42:D7:19:DG:H1'	42:D7:20:DC:H5'	1.92	0.51
54:E8:28:DG:H1'	54:E8:29:DC:H5'	1.92	0.51
58:ED:21:DG:H1'	58:ED:22:DC:H5'	1.92	0.51
68:FC:5:DG:H1'	68:FC:6:DC:H5'	1.92	0.51
69:FD:37:DG:H1'	69:FD:38:DC:H5'	1.92	0.51
83:H3:5:DG:H1'	83:H3:6:DC:H5'	1.92	0.51
88:H9:31:DG:H1'	182:QA:1:DC:H5'	1.93	0.51
95:I5:42:DG:H1'	187:R5:1:DC:H5'	1.92	0.51
110:J9:15:DG:H1'	110:J9:16:DC:H5'	1.92	0.51
119:K7:27:DG:H1'	119:K7:28:DC:H5'	1.92	0.51
136:M2:6:DG:H1'	136:M2:7:DC:H5'	1.92	0.51
151:N8:15:DG:H1'	151:N8:16:DC:H5'	1.92	0.51
167:P3:29:DG:H1'	167:P3:30:DC:H5'	1.92	0.51
186:R3:6:DG:H1'	186:R3:7:DC:H5'	1.92	0.51
201:SC:5:DG:H1'	201:SC:6:DC:H5'	1.92	0.51
209:TA:16:DG:H1'	209:TA:17:DC:H5'	1.92	0.51
11:AB:42:DG:H1'	11:AB:43:DC:H5'	1.92	0.51
11:AB:114:DG:H1'	11:AB:115:DC:H5'	1.92	0.51
11:AB:1040:DG:H1'	11:AB:1041:DC:H5'	1.92	0.51
11:AB:1077:DG:H1'	11:AB:1078:DC:H5'	1.92	0.51
11:AB:1182:DG:H1'	11:AB:1183:DC:H5'	1.92	0.51
11:AB:1347:DG:H1'	11:AB:1348:DC:H5'	1.92	0.51
11:AB:1611:DG:H1'	11:AB:1612:DC:H5'	1.92	0.51
11:AB:1863:DG:H1'	11:AB:1864:DC:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2373:DG:H1'	11:AB:2374:DC:H5'	1.92	0.51
11:AB:2713:DG:H1'	11:AB:2714:DC:H5'	1.92	0.51
11:AB:2910:DG:H1'	11:AB:2911:DC:H5'	1.92	0.51
11:AB:4088:DG:H1'	11:AB:4089:DC:H5'	1.92	0.51
11:AB:4154:DG:H1'	11:AB:4155:DC:H5'	1.92	0.51
11:AB:4496:DG:H1'	11:AB:4497:DC:H5'	1.92	0.51
11:AB:4854:DG:H1'	11:AB:4855:DC:H5'	1.92	0.51
11:AB:5468:DG:H1'	11:AB:5469:DC:H5'	1.92	0.51
11:AB:5824:DG:H1'	11:AB:5825:DC:H5'	1.92	0.51
11:AB:5864:DG:H1'	11:AB:5865:DC:H5'	1.92	0.51
11:AB:7084:DG:H1'	11:AB:7085:DC:H5'	1.92	0.51
11:AB:7154:DG:H1'	11:AB:7155:DC:H5'	1.92	0.51
17:B4:11:DG:H1'	17:B4:12:DC:H5'	1.92	0.51
24:BC:39:DG:H1'	24:BC:40:DC:H5'	1.92	0.51
41:D6:22:DC:H5'	211:TD:21:DG:H1'	1.92	0.51
47:DD:41:DG:H1'	47:DD:42:DC:H5'	1.92	0.51
58:ED:7:DG:H1'	58:ED:8:DC:H5'	1.92	0.51
90:HC:8:DG:H1'	90:HC:9:DC:H5'	1.92	0.51
108:J7:20:DG:H1'	108:J7:21:DC:H5'	1.92	0.51
112:JC:12:DG:H1'	112:JC:13:DC:H5'	1.92	0.51
113:JD:12:DG:H1'	113:JD:13:DC:H5'	1.92	0.51
114:K1:16:DG:H1'	114:K1:17:DC:H5'	1.92	0.51
144:MC:6:DG:H1'	144:MC:7:DC:H5'	1.92	0.51
147:N3:12:DG:H1'	147:N3:13:DC:H5'	1.92	0.51
149:N6:50:DG:H1'	149:N6:51:DC:H5'	1.92	0.51
152:N9:38:DG:H1'	165:OD:50:DC:H5'	1.92	0.51
155:ND:20:DG:H1'	175:PD:1:DC:H5'	1.93	0.51
160:O7:14:DC:C2'	160:O7:15:DT:H72	2.41	0.51
166:P2:28:DG:H1'	166:P2:29:DC:H5'	1.92	0.51
169:P6:5:DG:H1'	169:P6:6:DC:H5'	1.92	0.51
187:R5:4:DG:H1'	187:R5:5:DC:H5'	1.92	0.51
199:S9:20:DG:H1'	199:S9:21:DC:H5'	1.92	0.51
217:U9:7:DG:H1'	217:U9:8:DC:H5'	1.92	0.51
217:U9:11:DG:H1'	217:U9:12:DC:H5'	1.92	0.51
223:V5:10:DG:H1'	223:V5:11:DC:H5'	1.92	0.51
6:A6:28:DG:H1'	6:A6:29:DC:H5'	1.92	0.51
11:AB:86:DG:H1'	11:AB:87:DC:H5'	1.92	0.51
11:AB:126:DG:H1'	11:AB:127:DC:H5'	1.92	0.51
11:AB:294:DG:H1'	11:AB:295:DC:H5'	1.92	0.51
11:AB:726:DG:H1'	11:AB:727:DC:H5'	1.92	0.51
11:AB:901:DG:H1'	11:AB:902:DC:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1126:DG:H1'	11:AB:1127:DC:H5'	1.92	0.51
11:AB:1535:DG:H1'	11:AB:1536:DC:H5'	1.92	0.51
11:AB:1669:DG:H1'	11:AB:1670:DC:H5'	1.92	0.51
11:AB:1789:DG:H1'	11:AB:1790:DC:H5'	1.92	0.51
11:AB:1949:DG:H1'	11:AB:1950:DC:H5'	1.92	0.51
11:AB:2081:DG:H1'	11:AB:2082:DC:H5'	1.92	0.51
11:AB:2311:DG:H1'	11:AB:2312:DC:H5'	1.92	0.51
11:AB:2391:DG:H1'	11:AB:2392:DC:H5'	1.92	0.51
11:AB:2538:DG:H1'	11:AB:2539:DC:H5'	1.92	0.51
11:AB:2550:DG:H1'	11:AB:2551:DC:H5'	1.92	0.51
11:AB:2669:DC:C2'	11:AB:2670:DT:H72	2.41	0.51
11:AB:2996:DG:H1'	11:AB:2997:DC:H5'	1.92	0.51
11:AB:3779:DG:H1'	11:AB:3780:DC:H5'	1.92	0.51
11:AB:4110:DG:H1'	11:AB:4111:DC:H5'	1.92	0.51
11:AB:4175:DG:H1'	11:AB:4176:DC:H5'	1.92	0.51
11:AB:4188:DG:H1'	11:AB:4189:DC:H5'	1.92	0.51
11:AB:4249:DG:H1'	11:AB:4250:DC:H5'	1.92	0.51
11:AB:4725:DG:H1'	11:AB:4726:DC:H5'	1.92	0.51
11:AB:4938:DC:C2'	11:AB:4939:DT:H72	2.41	0.51
11:AB:5134:DG:H1'	11:AB:5135:DC:H5'	1.92	0.51
11:AB:5509:DC:C2'	11:AB:5510:DT:H72	2.41	0.51
11:AB:5600:DC:C2'	11:AB:5601:DT:H72	2.41	0.51
11:AB:5704:DG:H1'	11:AB:5705:DC:H5'	1.92	0.51
11:AB:5907:DG:H1'	11:AB:5908:DC:H5'	1.92	0.51
11:AB:6189:DG:H1'	11:AB:6190:DC:H5'	1.92	0.51
11:AB:7217:DG:H1'	11:AB:7218:DC:H5'	1.92	0.51
12:AC:17:DC:H5'	109:J8:28:DG:H1'	1.92	0.51
13:AD:28:DG:H1'	13:AD:29:DC:H5'	1.92	0.51
13:AD:33:DG:H1'	13:AD:34:DC:H5'	1.92	0.51
15:B2:20:DG:H1'	15:B2:21:DC:H5'	1.92	0.51
26:C1:1:DC:H5'	73:G5:24:DG:H1'	1.92	0.51
30:C6:12:DC:C2'	30:C6:13:DT:H72	2.41	0.51
30:C6:26:DC:C2'	30:C6:27:DT:H72	2.41	0.51
41:D6:5:DG:H1'	41:D6:6:DC:H5'	1.92	0.51
41:D6:16:DC:C2'	41:D6:17:DT:H72	2.41	0.51
41:D6:19:DG:H1'	41:D6:20:DC:H5'	1.92	0.51
52:E6:30:DG:H1'	52:E6:31:DC:H5'	1.92	0.51
55:E9:22:DG:H1'	55:E9:23:DC:H5'	1.92	0.51
58:ED:29:DG:H1'	58:ED:30:DC:H5'	1.92	0.51
67:FA:18:DG:H1'	67:FA:19:DC:H5'	1.92	0.51
103:J1:13:DG:H1'	103:J1:14:DC:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
106:J5:27:DG:H1'	106:J5:28:DC:H5'	1.92	0.51
108:J7:16:DC:C2'	108:J7:17:DT:H72	2.41	0.51
109:J8:42:DG:H1'	109:J8:43:DC:H5'	1.92	0.51
115:K2:15:DG:H1'	115:K2:16:DC:H5'	1.92	0.51
124:KD:7:DC:C2'	124:KD:8:DT:H72	2.41	0.51
125:L1:25:DG:H1'	125:L1:26:DC:H5'	1.92	0.51
139:M6:19:DG:H1'	139:M6:20:DC:H5'	1.92	0.51
143:MA:11:DG:H1'	143:MA:12:DC:H5'	1.92	0.51
174:PC:11:DG:H1'	174:PC:12:DC:H5'	1.92	0.51
188:R7:14:DG:H1'	188:R7:15:DC:H5'	1.92	0.51
192:RC:11:DG:H1'	192:RC:12:DC:H5'	1.92	0.51
197:S7:6:DG:H1'	197:S7:7:DC:H5'	1.92	0.51
11:AB:90:DG:H1'	11:AB:91:DC:H5'	1.92	0.51
11:AB:196:DC:C2'	11:AB:197:DT:H72	2.41	0.51
11:AB:328:DG:H1'	11:AB:329:DC:H5'	1.92	0.51
11:AB:781:DG:H1'	11:AB:782:DC:H5'	1.92	0.51
11:AB:883:DG:H1'	11:AB:884:DC:H5'	1.92	0.51
11:AB:959:DC:C2'	11:AB:960:DT:H72	2.41	0.51
11:AB:1506:DC:C2'	11:AB:1507:DT:H72	2.41	0.51
11:AB:2329:DC:C2'	11:AB:2330:DT:H72	2.41	0.51
11:AB:2346:DC:C2'	11:AB:2347:DT:H72	2.41	0.51
11:AB:2852:DC:C2'	11:AB:2853:DT:H72	2.41	0.51
11:AB:2972:DC:C2'	11:AB:2973:DT:H72	2.41	0.51
11:AB:3296:DC:C2'	11:AB:3297:DT:H72	2.41	0.51
11:AB:3317:DC:C2'	11:AB:3318:DT:H72	2.41	0.51
11:AB:3414:DG:H1'	11:AB:3415:DC:H5'	1.92	0.51
11:AB:3450:DC:C2'	11:AB:3451:DT:H72	2.41	0.51
11:AB:3509:DC:C2'	11:AB:3510:DT:H72	2.41	0.51
11:AB:3729:DG:H1'	11:AB:3730:DC:H5'	1.92	0.51
11:AB:3776:DC:C2'	11:AB:3777:DT:H72	2.41	0.51
11:AB:4048:DG:H1'	11:AB:4049:DC:H5'	1.92	0.51
11:AB:4131:DG:H1'	11:AB:4132:DC:H5'	1.92	0.51
11:AB:4242:DC:C2'	11:AB:4243:DT:H72	2.41	0.51
11:AB:4925:DG:H1'	11:AB:4926:DC:H5'	1.92	0.51
11:AB:5497:DG:H1'	11:AB:5498:DC:H5'	1.92	0.51
11:AB:5861:DC:C2'	11:AB:5862:DT:H72	2.41	0.51
11:AB:6057:DG:H1'	11:AB:6058:DC:H5'	1.92	0.51
11:AB:6505:DG:H1'	11:AB:6506:DC:H5'	1.92	0.51
11:AB:6905:DG:H1'	11:AB:6906:DC:H5'	1.92	0.51
11:AB:7177:DG:H1'	11:AB:7178:DC:H5'	1.92	0.51
47:DD:38:DG:H1'	47:DD:39:DC:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:F2:22:DG:H1'	60:F2:23:DC:H5'	1.92	0.51
61:F3:1:DC:H5'	72:G3:28:DG:H1'	1.93	0.51
117:K5:3:DG:H1'	117:K5:4:DC:H5'	1.92	0.51
117:K5:13:DC:C2'	117:K5:14:DT:H72	2.41	0.51
117:K5:27:DG:H1'	117:K5:28:DC:H5'	1.92	0.51
144:MC:19:DC:C2'	144:MC:20:DT:H72	2.41	0.51
147:N3:26:DC:C2'	147:N3:27:DT:H72	2.41	0.51
161:O8:53:DG:H1'	161:O8:54:DC:H5'	1.92	0.51
162:O9:8:DC:C2'	162:O9:9:DT:H72	2.41	0.51
187:R5:18:DG:H1'	187:R5:19:DC:H5'	1.92	0.51
190:R9:45:DG:H1'	190:R9:46:DC:H5'	1.92	0.51
204:T3:5:DG:H1'	204:T3:6:DC:H5'	1.92	0.51
204:T3:20:DG:H1'	204:T3:21:DC:H5'	1.92	0.51
228:VC:12:DG:H1'	228:VC:13:DC:H5'	1.92	0.51
7:A7:15:DG:H1'	7:A7:16:DC:H5'	1.92	0.51
11:AB:175:DC:C2'	11:AB:176:DT:H72	2.41	0.51
11:AB:416:DC:C2'	11:AB:417:DT:H72	2.41	0.51
11:AB:1812:DC:C2'	11:AB:1813:DT:H72	2.41	0.51
11:AB:2014:DG:H1'	11:AB:2015:DC:H5'	1.92	0.51
11:AB:2185:DC:C2'	11:AB:2186:DT:H72	2.41	0.51
11:AB:3446:DC:C2'	11:AB:3447:DT:H72	2.41	0.51
11:AB:3720:DG:H1'	11:AB:4477:DC:H5'	1.92	0.51
11:AB:4184:DG:H1'	11:AB:4185:DC:H5'	1.93	0.51
11:AB:4572:DG:H1'	11:AB:4573:DC:H5'	1.92	0.51
11:AB:4784:DG:H1'	11:AB:4785:DC:H5'	1.92	0.51
11:AB:4980:DG:H1'	11:AB:4981:DC:H5'	1.92	0.51
11:AB:5260:DG:H1'	11:AB:5261:DC:H5'	1.92	0.51
11:AB:5636:DG:H1'	11:AB:5637:DC:H5'	1.92	0.51
11:AB:6154:DG:H1'	11:AB:6155:DC:H5'	1.92	0.51
11:AB:6476:DC:C2'	11:AB:6477:DT:H72	2.41	0.51
11:AB:6630:DG:H1'	11:AB:6631:DC:H5'	1.92	0.51
11:AB:6805:DC:C2'	11:AB:6806:DT:H72	2.41	0.51
11:AB:7188:DC:C2'	11:AB:7189:DT:H72	2.41	0.51
20:B7:13:DG:H1'	97:I7:28:DC:H5'	1.92	0.51
23:BA:17:DG:H1'	23:BA:18:DC:H5'	1.92	0.51
37:D1:36:DG:H1'	37:D1:37:DC:H5'	1.92	0.51
54:E8:5:DG:H1'	54:E8:6:DC:H5'	1.92	0.51
54:E8:21:DC:C2'	54:E8:22:DT:H72	2.41	0.51
65:F8:3:DG:H1'	65:F8:4:DC:H5'	1.92	0.51
69:FD:2:DG:H1'	69:FD:3:DC:H5'	1.92	0.51
82:H2:38:DG:H1'	82:H2:39:DC:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:H3:2:DC:C2'	83:H3:3:DT:H72	2.41	0.51
83:H3:37:DG:H1'	83:H3:38:DC:H5'	1.92	0.51
96:I6:3:DG:H1'	96:I6:4:DC:H5'	1.92	0.51
98:I8:25:DG:H1'	98:I8:26:DC:H5'	1.92	0.51
99:I9:7:DC:C2'	99:I9:8:DT:H72	2.41	0.51
129:L6:21:DC:C2'	129:L6:22:DT:H72	2.41	0.51
204:T3:24:DG:H1'	204:T3:25:DC:H5'	1.92	0.51
214:U5:8:DG:H1'	214:U5:9:DC:H5'	1.92	0.51
216:U8:19:DG:H1'	216:U8:20:DC:H5'	1.92	0.51
227:VA:27:DC:C2'	227:VA:28:DT:H72	2.41	0.51
238:X9:49:DG:H1'	238:X9:50:DC:H5'	1.92	0.51
2:A2:11:DG:H1'	2:A2:12:DC:H5'	1.92	0.50
11:AB:307:DG:H1'	11:AB:308:DC:H5'	1.92	0.50
11:AB:590:DG:H1'	11:AB:591:DC:H5'	1.92	0.50
11:AB:1981:DG:H1'	11:AB:1982:DC:H5'	1.92	0.50
11:AB:3424:DG:H1'	11:AB:3425:DC:H5'	1.92	0.50
11:AB:3542:DG:H1'	11:AB:3543:DC:H5'	1.92	0.50
11:AB:4472:DG:H1'	11:AB:4473:DC:H5'	1.92	0.50
11:AB:4840:DC:C2'	11:AB:4841:DT:H72	2.41	0.50
11:AB:4865:DG:H1'	11:AB:4866:DC:H5'	1.92	0.50
11:AB:5119:DG:H1'	11:AB:5120:DC:H5'	1.93	0.50
11:AB:5242:DG:H1'	11:AB:5243:DC:H5'	1.92	0.50
11:AB:5848:DG:H1'	11:AB:5849:DC:H5'	1.92	0.50
11:AB:6349:DG:H1'	11:AB:6350:DC:H5'	1.92	0.50
60:F2:5:DG:H1'	60:F2:6:DC:H5'	1.92	0.50
76:G8:7:DG:H1'	76:G8:8:DC:H5'	1.92	0.50
152:N9:18:DG:H1'	152:N9:19:DC:H5'	1.92	0.50
156:O2:45:DG:H1'	156:O2:46:DC:H5'	1.92	0.50
209:TA:27:DG:H1'	209:TA:28:DC:H5'	1.92	0.50
209:TA:33:DG:H1'	209:TA:34:DC:H5'	1.92	0.50
10:AA:17:DG:H1'	10:AA:18:DC:H5'	1.92	0.50
11:AB:386:DG:H1'	11:AB:387:DC:H5'	1.92	0.50
11:AB:1706:DG:H1'	11:AB:1707:DC:H5'	1.92	0.50
11:AB:2877:DG:H1'	11:AB:2878:DC:H5'	1.92	0.50
11:AB:2883:DG:H1'	11:AB:2884:DC:H5'	1.92	0.50
11:AB:3053:DC:C2'	11:AB:3054:DT:H72	2.41	0.50
11:AB:3584:DG:H1'	11:AB:3585:DC:H5'	1.92	0.50
11:AB:3769:DG:H1'	11:AB:3770:DC:H5'	1.92	0.50
11:AB:4012:DT:H72	11:AB:4347:DC:C2'	2.41	0.50
11:AB:4338:DG:H2''	11:AB:4339:DT:H71	1.92	0.50
11:AB:4525:DG:H1'	11:AB:4526:DC:H5'	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4665:DG:H1'	11:AB:4666:DC:H5'	1.92	0.50
11:AB:5557:DG:H2''	11:AB:5558:DT:H71	1.92	0.50
11:AB:6024:DG:H1'	11:AB:6025:DC:H5'	1.92	0.50
11:AB:6030:DG:H1'	11:AB:6031:DC:H5'	1.92	0.50
11:AB:6218:DG:H1'	11:AB:6219:DC:H5'	1.92	0.50
11:AB:6400:DG:H1'	11:AB:6401:DC:H5'	1.92	0.50
11:AB:6693:DG:H1'	11:AB:6694:DC:H5'	1.92	0.50
11:AB:6901:DG:H2''	11:AB:6902:DT:H71	1.92	0.50
47:DD:29:DG:H1'	47:DD:30:DC:H5'	1.92	0.50
48:E1:12:DG:H1'	48:E1:13:DC:H5'	1.92	0.50
52:E6:16:DG:H1'	52:E6:17:DC:H5'	1.92	0.50
75:G7:26:DG:H1'	75:G7:27:DC:H5'	1.92	0.50
82:H2:21:DG:H1'	82:H2:22:DC:H5'	1.92	0.50
88:H9:12:DC:C2'	88:H9:13:DT:H72	2.41	0.50
94:I3:47:DG:H1'	94:I3:48:DC:H5'	1.92	0.50
108:J7:51:DC:C2'	108:J7:52:DT:H72	2.41	0.50
117:K5:40:DG:H1'	117:K5:41:DC:H5'	1.92	0.50
118:K6:9:DG:H1'	118:K6:10:DC:H5'	1.92	0.50
143:MA:30:DG:H1'	143:MA:31:DC:H5'	1.92	0.50
160:O7:21:DC:C2'	160:O7:22:DT:H72	2.41	0.50
186:R3:13:DG:H1'	204:T3:8:DC:H5'	1.92	0.50
195:S3:7:DG:H1'	195:S3:8:DC:H5'	1.92	0.50
209:TA:12:DG:H1'	209:TA:13:DC:H5'	1.92	0.50
11:AB:536:DG:H1'	11:AB:537:DC:H5'	1.92	0.50
11:AB:1146:DG:H1'	11:AB:1147:DC:H5'	1.92	0.50
11:AB:1475:DC:C2'	11:AB:1476:DT:H72	2.41	0.50
11:AB:2033:DG:H1'	11:AB:5858:DC:H5'	1.92	0.50
11:AB:3022:DG:H1'	11:AB:3023:DC:H5'	1.92	0.50
11:AB:3044:DG:H2''	11:AB:3045:DT:H71	1.92	0.50
11:AB:3790:DG:H1'	11:AB:4463:DC:H5'	1.92	0.50
11:AB:4141:DG:H1'	11:AB:4142:DC:H5'	1.92	0.50
11:AB:4654:DG:H1'	11:AB:4655:DC:H5'	1.92	0.50
11:AB:4689:DG:H1'	11:AB:4690:DC:H5'	1.92	0.50
11:AB:4959:DG:H1'	11:AB:4960:DC:H5'	1.92	0.50
11:AB:6211:DG:H1'	11:AB:6212:DC:H5'	1.92	0.50
11:AB:6357:DG:H2''	11:AB:6358:DT:H71	1.92	0.50
11:AB:6406:DG:H1'	11:AB:6407:DC:H5'	1.92	0.50
14:B1:7:DG:H2''	117:K5:26:DT:H71	1.92	0.50
35:CC:31:DG:H1'	35:CC:32:DC:H5'	1.92	0.50
46:DC:8:DG:H1'	46:DC:9:DC:H5'	1.92	0.50
51:E5:25:DG:H1'	51:E5:26:DC:H5'	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
99:I9:18:DC:C2'	99:I9:19:DT:H72	2.42	0.50
107:J6:23:DC:C2'	107:J6:24:DT:H72	2.42	0.50
112:JC:2:DG:H1'	112:JC:3:DC:H5'	1.92	0.50
128:L5:10:DG:H1'	128:L5:11:DC:H5'	1.92	0.50
145:MD:38:DG:H1'	145:MD:39:DC:H5'	1.92	0.50
163:OA:2:DG:H1'	163:OA:3:DC:H5'	1.92	0.50
173:PA:36:DG:H1'	173:PA:37:DC:H5'	1.92	0.50
174:PC:7:DG:H1'	174:PC:8:DC:H5'	1.92	0.50
179:Q7:22:DG:H1'	179:Q7:23:DC:H5'	1.92	0.50
187:R5:10:DG:H1'	187:R5:11:DC:H5'	1.92	0.50
199:S9:17:DT:H71	226:V9:4:DG:H2''	1.92	0.50
214:U5:17:DG:H1'	214:U5:18:DC:H5'	1.92	0.50
223:V5:22:DG:H1'	223:V5:23:DC:H5'	1.92	0.50
228:VC:20:DC:C2'	228:VC:21:DT:H72	2.42	0.50
233:W8:18:DG:H1'	233:W8:19:DC:H5'	1.92	0.50
11:AB:204:DG:H1'	11:AB:205:DC:H5'	1.92	0.50
11:AB:541:DG:H2''	11:AB:542:DT:H71	1.92	0.50
11:AB:1095:DG:H1'	11:AB:1096:DC:H5'	1.92	0.50
11:AB:1161:DG:H1'	11:AB:1162:DC:H5'	1.92	0.50
11:AB:1573:DG:H1'	11:AB:1574:DC:H5'	1.92	0.50
11:AB:2296:DG:H1'	11:AB:2297:DC:H5'	1.92	0.50
11:AB:2366:DG:H2''	11:AB:2367:DT:H71	1.92	0.50
11:AB:2918:DG:H1'	11:AB:2919:DC:H5'	1.92	0.50
11:AB:3473:DG:H1'	11:AB:3474:DC:H5'	1.92	0.50
11:AB:3530:DG:H1'	11:AB:4791:DC:H5'	1.92	0.50
11:AB:3653:DG:H1'	11:AB:3654:DC:H5'	1.92	0.50
11:AB:3743:DG:H2''	11:AB:3744:DT:H71	1.92	0.50
11:AB:4004:DG:H1'	11:AB:4005:DC:H5'	1.92	0.50
11:AB:4038:DG:H1'	11:AB:4039:DC:H5'	1.92	0.50
11:AB:4085:DG:H1'	11:AB:4086:DC:H5'	1.92	0.50
11:AB:4127:DG:H1'	11:AB:4128:DC:H5'	1.92	0.50
11:AB:4428:DG:H1'	11:AB:4429:DC:H5'	1.92	0.50
11:AB:4493:DG:H1'	11:AB:4494:DC:H5'	1.92	0.50
11:AB:4532:DG:H1'	11:AB:4533:DC:H5'	1.92	0.50
11:AB:4672:DG:H1'	11:AB:4673:DC:H5'	1.92	0.50
11:AB:4859:DG:H1'	11:AB:4860:DC:H5'	1.92	0.50
11:AB:5050:DG:H1'	11:AB:5051:DC:H5'	1.92	0.50
11:AB:5113:DG:H1'	11:AB:5114:DC:H5'	1.92	0.50
11:AB:5215:DG:H1'	11:AB:5216:DC:H5'	1.92	0.50
11:AB:5521:DG:H1'	11:AB:5522:DC:H5'	1.92	0.50
11:AB:6064:DG:H1'	11:AB:6065:DC:H5'	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B5:8:DG:H1'	18:B5:9:DC:H5'	1.92	0.50
26:C1:4:DG:H2''	26:C1:5:DT:H71	1.92	0.50
48:E1:21:DG:H2''	48:E1:22:DT:H71	1.92	0.50
63:F6:9:DG:H1'	63:F6:10:DC:H5'	1.92	0.50
66:F9:7:DG:H1'	66:F9:8:DC:H5'	1.92	0.50
80:GD:21:DG:H1'	80:GD:22:DC:H5'	1.92	0.50
88:H9:27:DG:H1'	88:H9:28:DC:H5'	1.92	0.50
91:HD:19:DG:H1'	91:HD:20:DC:H5'	1.92	0.50
93:I2:30:DG:H1'	93:I2:31:DC:H5'	1.92	0.50
107:J6:27:DC:C2'	107:J6:28:DT:H72	2.42	0.50
156:O2:11:DG:H1'	156:O2:12:DC:H5'	1.92	0.50
159:O6:5:DG:H1'	159:O6:6:DC:H5'	1.92	0.50
174:PC:23:DG:H1'	174:PC:24:DC:H5'	1.92	0.50
176:Q2:11:DC:C2'	176:Q2:12:DT:H72	2.42	0.50
212:U2:10:DG:H1'	212:U2:11:DC:H5'	1.92	0.50
213:U3:19:DG:H1'	213:U3:20:DC:H5'	1.92	0.50
227:VA:20:DG:H1'	227:VA:21:DC:H5'	1.92	0.50
5:A5:23:DG:H1'	5:A5:24:DC:H5'	1.92	0.50
8:A8:16:DG:H2''	126:L2:21:DT:H71	1.92	0.50
11:AB:768:DG:H1'	11:AB:769:DC:H5'	1.92	0.50
11:AB:1011:DG:H1'	11:AB:1012:DC:H5'	1.92	0.50
11:AB:1131:DG:H1'	11:AB:1132:DC:H5'	1.92	0.50
11:AB:1165:DG:H1'	11:AB:1166:DC:H5'	1.92	0.50
11:AB:1349:DG:H2''	11:AB:1350:DT:H71	1.92	0.50
11:AB:1914:DG:H1'	11:AB:1915:DC:H5'	1.92	0.50
11:AB:1927:DG:H1'	11:AB:1928:DC:H5'	1.92	0.50
11:AB:2038:DG:H2''	11:AB:2039:DT:H71	1.92	0.50
11:AB:3214:DG:H1'	11:AB:3215:DC:H5'	1.92	0.50
11:AB:3953:DG:H1'	11:AB:3954:DC:H5'	1.92	0.50
11:AB:4172:DC:C2'	11:AB:4173:DT:H72	2.42	0.50
11:AB:4846:DG:H1'	11:AB:4847:DC:H5'	1.92	0.50
11:AB:5534:DG:H1'	11:AB:5535:DC:H5'	1.92	0.50
11:AB:6337:DG:H1'	11:AB:6338:DC:H5'	1.92	0.50
11:AB:6386:DG:H1'	11:AB:6387:DC:H5'	1.92	0.50
11:AB:7160:DG:H1'	11:AB:7161:DC:H5'	1.92	0.50
13:AD:14:DG:H1'	13:AD:15:DC:H5'	1.92	0.50
32:C8:4:DG:H1'	32:C8:5:DC:H5'	1.92	0.50
32:C8:28:DG:H1'	32:C8:29:DC:H5'	1.92	0.50
37:D1:31:DG:H1'	37:D1:32:DC:H5'	1.92	0.50
68:FC:17:DG:H1'	68:FC:18:DC:H5'	1.92	0.50
84:H5:20:DG:H1'	84:H5:21:DC:H5'	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
99:I9:25:DG:H1'	99:I9:26:DC:H5'	1.92	0.50
107:J6:22:DG:H1'	107:J6:23:DC:H5'	1.92	0.50
115:K2:17:DG:H1'	115:K2:18:DC:H5'	1.92	0.50
133:LA:6:DG:H1'	133:LA:7:DC:H5'	1.92	0.50
156:O2:29:DG:H1'	156:O2:30:DC:H5'	1.92	0.50
180:Q8:10:DG:H1'	180:Q8:11:DC:H5'	1.92	0.50
192:RC:7:DG:H1'	192:RC:8:DC:H5'	1.92	0.50
215:U7:11:DG:H1'	215:U7:12:DC:H5'	1.92	0.50
11:AB:676:DG:H1'	11:AB:677:DC:H5'	1.92	0.50
11:AB:993:DG:H1'	11:AB:994:DC:H5'	1.92	0.50
11:AB:1967:DG:H1'	11:AB:1968:DC:H5'	1.92	0.50
11:AB:2018:DG:H1'	11:AB:2019:DC:H5'	1.92	0.50
11:AB:2339:DG:H1'	11:AB:2340:DC:H5'	1.92	0.50
11:AB:3142:DG:H1'	11:AB:3143:DC:H5'	1.92	0.50
11:AB:5036:DG:H1'	11:AB:5037:DC:H5'	1.92	0.50
11:AB:5084:DG:H1'	11:AB:5085:DC:H5'	1.92	0.50
11:AB:5793:DG:H1'	11:AB:5794:DC:H5'	1.92	0.50
11:AB:6833:DG:H1'	11:AB:6834:DC:H5'	1.92	0.50
44:D9:18:DG:H1'	44:D9:19:DC:H5'	1.92	0.50
49:E2:4:DG:H1'	49:E2:5:DC:H5'	1.92	0.50
53:E7:16:DG:H1'	53:E7:17:DC:H5'	1.92	0.50
55:E9:18:DG:H1'	55:E9:19:DC:H5'	1.92	0.50
58:ED:9:DG:H2''	58:ED:10:DT:H71	1.92	0.50
86:H7:21:DG:H1'	86:H7:22:DC:H5'	1.92	0.50
88:H9:11:DG:H1'	88:H9:12:DC:H5'	1.92	0.50
112:JC:4:DG:H1'	112:JC:5:DC:H5'	1.92	0.50
145:MD:13:DG:H1'	145:MD:14:DC:H5'	1.92	0.50
145:MD:24:DG:H1'	145:MD:25:DC:H5'	1.92	0.50
147:N3:5:DG:H1'	147:N3:6:DC:H5'	1.92	0.50
206:T7:12:DG:H1'	206:T7:13:DC:H5'	1.92	0.50
11:AB:852:DG:H1'	11:AB:853:DC:H5'	1.92	0.50
11:AB:931:DG:H1'	11:AB:932:DC:H5'	1.92	0.50
11:AB:943:DG:H1'	11:AB:944:DC:H5'	1.92	0.50
11:AB:1060:DG:H1'	11:AB:1061:DC:H5'	1.92	0.50
11:AB:2169:DG:H1'	11:AB:2170:DC:H5'	1.92	0.50
11:AB:4602:DG:H1'	11:AB:4603:DC:H5'	1.93	0.50
11:AB:5070:DG:H1'	11:AB:5071:DC:H5'	1.92	0.50
11:AB:5132:DG:H1'	11:AB:5133:DC:H5'	1.92	0.50
11:AB:5238:DG:H1'	11:AB:5239:DC:H5'	1.92	0.50
11:AB:5884:DG:H1'	11:AB:5885:DC:H5'	1.92	0.50
11:AB:6999:DG:H1'	11:AB:7000:DC:H5'	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:7235:DG:H1'	11:AB:7236:DC:H5'	1.92	0.50
63:F6:11:DG:H1'	63:F6:12:DC:H5'	1.92	0.50
77:G9:10:DG:H1'	77:G9:11:DC:H5'	1.92	0.50
109:J8:2:DG:H1'	109:J8:3:DC:H5'	1.92	0.50
160:O7:1:DG:H1'	160:O7:2:DC:H5'	1.92	0.50
191:RA:9:DG:H1'	191:RA:10:DC:H5'	1.92	0.50
5:A5:32:DC:C2'	5:A5:33:DT:H72	2.41	0.50
11:AB:118:DC:C2'	11:AB:119:DT:H72	2.41	0.50
11:AB:1541:DG:H1'	11:AB:1542:DC:H5'	1.92	0.50
11:AB:1855:DG:H1'	11:AB:1856:DC:H5'	1.92	0.50
11:AB:2178:DG:H1'	11:AB:2179:DC:H5'	1.92	0.50
11:AB:3514:DG:H1'	11:AB:3515:DC:H5'	1.92	0.50
11:AB:4107:DG:H1'	11:AB:4108:DC:H5'	1.92	0.50
11:AB:4297:DG:H1'	11:AB:4298:DC:H5'	1.92	0.50
11:AB:4590:DG:H1'	11:AB:4591:DC:H5'	1.92	0.50
11:AB:4732:DG:H1'	11:AB:4733:DC:H5'	1.92	0.50
11:AB:4943:DG:H1'	11:AB:4944:DC:H5'	1.92	0.50
11:AB:5010:DG:H1'	11:AB:5011:DC:H5'	1.92	0.50
11:AB:5062:DG:H1'	11:AB:5063:DC:H5'	1.92	0.50
11:AB:5641:DG:H1'	11:AB:5642:DC:H5'	1.92	0.50
11:AB:6090:DG:H1'	11:AB:6091:DC:H5'	1.92	0.50
11:AB:6168:DG:H1'	11:AB:6169:DC:H5'	1.92	0.50
11:AB:7214:DG:H1'	11:AB:7215:DC:H5'	1.92	0.50
11:AB:7241:DG:H1'	11:AB:7242:DC:H5'	1.92	0.50
14:B1:33:DG:H1'	14:B1:34:DC:H5'	1.92	0.50
40:D5:24:DG:H1'	40:D5:25:DC:H5'	1.92	0.50
48:E1:32:DC:C2'	48:E1:33:DT:H72	2.41	0.50
72:G3:14:DG:H1'	72:G3:15:DC:H5'	1.92	0.50
93:I2:45:DG:H1'	93:I2:46:DC:H5'	1.92	0.50
99:I9:17:DG:H1'	99:I9:18:DC:H5'	1.92	0.50
106:J5:7:DG:H1'	106:J5:8:DC:H5'	1.92	0.50
127:L3:4:DG:H1'	127:L3:5:DC:H5'	1.92	0.50
143:MA:9:DG:H1'	143:MA:10:DC:H5'	1.92	0.50
164:OC:11:DG:H1'	164:OC:12:DC:H5'	1.92	0.50
172:P9:20:DG:H1'	172:P9:21:DC:H5'	1.92	0.50
181:Q9:16:DG:H1'	181:Q9:17:DC:H5'	1.92	0.50
10:AA:11:DG:H1'	10:AA:12:DC:H5'	1.92	0.50
11:AB:442:DG:H1'	11:AB:443:DC:H5'	1.92	0.50
11:AB:862:DG:H1'	11:AB:863:DC:H5'	1.92	0.50
11:AB:1655:DC:C2'	11:AB:1656:DT:H72	2.42	0.50
11:AB:1867:DC:C2'	11:AB:1868:DT:H72	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2106:DG:H1'	11:AB:2107:DC:H5'	1.92	0.50
11:AB:2398:DC:C2'	11:AB:2399:DT:H72	2.41	0.50
11:AB:2926:DG:H2''	11:AB:2927:DT:H71	1.92	0.50
11:AB:3208:DG:H2''	11:AB:3209:DT:H71	1.92	0.50
11:AB:3568:DG:H1'	11:AB:3569:DC:H5'	1.92	0.50
11:AB:4013:DC:C2'	11:AB:4014:DT:H72	2.41	0.50
11:AB:4740:DG:H2''	11:AB:4741:DT:H71	1.92	0.50
11:AB:5001:DG:H1'	11:AB:5002:DC:H5'	1.92	0.50
11:AB:5831:DC:C2'	11:AB:5832:DT:H72	2.41	0.50
11:AB:6413:DG:H1'	11:AB:6414:DC:H5'	1.92	0.50
41:D6:3:DG:H1'	41:D6:4:DC:H5'	1.92	0.50
46:DC:20:DG:H1'	46:DC:21:DC:H5'	1.92	0.50
53:E7:11:DG:H1'	53:E7:12:DC:H5'	1.92	0.50
56:EA:20:DG:H1'	56:EA:21:DC:H5'	1.92	0.50
122:KA:46:DC:C2'	122:KA:47:DT:H72	2.41	0.50
152:N9:26:DG:H1'	152:N9:27:DC:H5'	1.92	0.50
154:NC:32:DC:H5'	216:U8:24:DG:H1'	1.92	0.50
164:OC:14:DG:H1'	164:OC:15:DC:H5'	1.92	0.50
187:R5:39:DC:C2'	187:R5:40:DT:H72	2.42	0.50
195:S3:11:DC:C2'	195:S3:12:DT:H72	2.41	0.50
197:S7:21:DC:C2'	197:S7:22:DT:H72	2.42	0.50
217:U9:21:DG:H1'	217:U9:22:DC:H5'	1.92	0.50
223:V5:37:DG:H1'	223:V5:38:DC:H5'	1.92	0.50
2:A2:26:DG:H2''	2:A2:27:DT:H71	1.92	0.49
11:AB:427:DG:H1'	11:AB:428:DC:H5'	1.92	0.49
11:AB:764:DC:C2'	11:AB:765:DT:H72	2.42	0.49
11:AB:1559:DG:H1'	11:AB:1560:DC:H5'	1.92	0.49
11:AB:1798:DG:H1'	11:AB:1799:DC:H5'	1.92	0.49
11:AB:2435:DG:H1'	11:AB:2436:DC:H5'	1.92	0.49
11:AB:4083:DG:H1'	11:AB:4084:DC:H5'	1.92	0.49
11:AB:4785:DC:C2'	11:AB:4786:DT:H72	2.42	0.49
11:AB:4928:DG:H1'	11:AB:4929:DC:H5'	1.92	0.49
11:AB:4951:DG:H1'	11:AB:4952:DC:H5'	1.93	0.49
11:AB:5019:DG:H1'	11:AB:5020:DC:H5'	1.92	0.49
11:AB:5798:DG:H1'	11:AB:5799:DC:H5'	1.92	0.49
11:AB:6130:DG:H1'	11:AB:6131:DC:H5'	1.92	0.49
11:AB:6688:DC:C2'	11:AB:6689:DT:H72	2.42	0.49
11:AB:6933:DG:H1'	11:AB:6934:DC:H5'	1.92	0.49
11:AB:7190:DG:H1'	11:AB:7191:DC:H5'	1.92	0.49
13:AD:34:DC:C2'	13:AD:35:DT:H72	2.42	0.49
31:C7:30:DG:H1'	31:C7:31:DC:H5'	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CC:18:DG:H2''	35:CC:19:DT:H71	1.92	0.49
43:D8:25:DG:H1'	43:D8:26:DC:H5'	1.92	0.49
54:E8:6:DC:C2'	54:E8:7:DT:H72	2.41	0.49
82:H2:36:DG:H2''	82:H2:37:DT:H71	1.92	0.49
93:I2:25:DG:H1'	93:I2:26:DC:H5'	1.92	0.49
115:K2:9:DG:H1'	115:K2:10:DC:H5'	1.92	0.49
122:KA:5:DG:H1'	122:KA:6:DC:H5'	1.92	0.49
126:L2:45:DG:H1'	126:L2:46:DC:H5'	1.92	0.49
143:MA:45:DG:H1'	143:MA:46:DC:H5'	1.93	0.49
169:P6:10:DG:H1'	169:P6:11:DC:H5'	1.92	0.49
184:QD:15:DC:H5'	238:X9:10:DG:H1'	1.92	0.49
194:S2:29:DG:H1'	194:S2:30:DC:H5'	1.92	0.49
211:TD:39:DG:H1'	211:TD:40:DC:H5'	1.92	0.49
11:AB:859:DG:H1'	11:AB:860:DC:H5'	1.92	0.49
11:AB:928:DG:H1'	11:AB:929:DC:H5'	1.92	0.49
11:AB:1105:DG:H2''	11:AB:1106:DT:H71	1.92	0.49
11:AB:1443:DG:H2''	11:AB:1444:DT:H71	1.92	0.49
11:AB:1613:DG:H1'	11:AB:1614:DC:H5'	1.92	0.49
11:AB:1819:DG:H1'	11:AB:1820:DC:H5'	1.92	0.49
11:AB:3469:DG:H1'	11:AB:3470:DC:H5'	1.92	0.49
11:AB:4076:DG:H1'	11:AB:4077:DC:H5'	1.92	0.49
11:AB:4600:DG:H1'	11:AB:4601:DC:H5'	1.92	0.49
11:AB:4920:DG:H1'	11:AB:4921:DC:H5'	1.92	0.49
11:AB:4998:DG:H1'	11:AB:4999:DC:H5'	1.92	0.49
42:D7:14:DG:H1'	97:I7:21:DC:H5'	1.92	0.49
46:DC:16:DG:H1'	46:DC:17:DC:H5'	1.92	0.49
51:E5:8:DG:H2''	51:E5:9:DT:H71	1.92	0.49
88:H9:14:DG:H1'	88:H9:15:DC:H5'	1.92	0.49
94:I3:20:DG:H1'	94:I3:21:DC:H5'	1.92	0.49
129:L6:23:DG:H1'	129:L6:24:DC:H5'	1.92	0.49
143:MA:43:DG:H1'	143:MA:44:DC:H5'	1.92	0.49
166:P2:11:DG:H1'	166:P2:12:DC:H5'	1.92	0.49
168:P5:3:DG:H1'	168:P5:4:DC:H5'	1.92	0.49
174:PC:8:DC:C2'	174:PC:9:DT:H72	2.41	0.49
175:PD:17:DG:H1'	175:PD:18:DC:H5'	1.92	0.49
227:VA:7:DG:H1'	227:VA:8:DC:H5'	1.92	0.49
11:AB:322:DC:C2'	11:AB:323:DT:H72	2.41	0.49
11:AB:343:DC:C2'	11:AB:344:DT:H72	2.41	0.49
11:AB:738:DG:H1'	11:AB:739:DC:H5'	1.92	0.49
11:AB:2443:DT:H72	11:AB:5366:DC:C2'	2.41	0.49
11:AB:2647:DC:C2'	11:AB:2648:DT:H72	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3555:DG:H1'	11:AB:3556:DC:H5'	1.92	0.49
11:AB:4203:DC:C2'	11:AB:4204:DT:H72	2.41	0.49
11:AB:4216:DG:H1'	11:AB:4217:DC:H5'	1.92	0.49
11:AB:4303:DG:H1'	11:AB:4304:DC:H5'	1.92	0.49
11:AB:4842:DG:H1'	11:AB:4843:DC:H5'	1.92	0.49
11:AB:4899:DC:C2'	11:AB:4900:DT:H72	2.42	0.49
11:AB:5695:DG:H1'	11:AB:5696:DC:H5'	1.92	0.49
11:AB:6474:DG:H1'	11:AB:6475:DC:H5'	1.92	0.49
18:B5:3:DG:H1'	18:B5:4:DC:H5'	1.92	0.49
69:FD:46:DG:H1'	69:FD:47:DC:H5'	1.92	0.49
97:I7:31:DG:H1'	97:I7:32:DC:H5'	1.92	0.49
115:K2:20:DG:H1'	115:K2:21:DC:H5'	1.92	0.49
134:LC:16:DG:H1'	134:LC:17:DC:H5'	1.92	0.49
11:AB:280:DC:C2'	11:AB:281:DT:H72	2.42	0.49
11:AB:958:DG:H1'	11:AB:959:DC:H5'	1.92	0.49
11:AB:1026:DG:H1'	11:AB:1027:DC:H5'	1.92	0.49
11:AB:1277:DC:C2'	11:AB:1278:DT:H72	2.42	0.49
11:AB:1848:DG:H1'	11:AB:1849:DC:H5'	1.92	0.49
11:AB:4667:DG:H1'	11:AB:4668:DC:H5'	1.92	0.49
11:AB:4829:DC:C2'	11:AB:4830:DT:H72	2.41	0.49
11:AB:6618:DC:C2'	11:AB:6619:DT:H72	2.42	0.49
11:AB:6734:DG:H1'	11:AB:6735:DC:H5'	1.92	0.49
11:AB:7187:DG:H1'	11:AB:7188:DC:H5'	1.92	0.49
22:B9:4:DG:H1'	22:B9:5:DC:H5'	1.92	0.49
30:C6:19:DC:C2'	30:C6:20:DT:H72	2.42	0.49
31:C7:17:DC:C2'	31:C7:18:DT:H72	2.42	0.49
50:E3:4:DG:H1'	50:E3:5:DC:H5'	1.92	0.49
70:G1:6:DG:H1'	70:G1:7:DC:H5'	1.92	0.49
103:J1:24:DG:H2''	103:J1:25:DC:O5'	2.13	0.49
124:KD:6:DG:H1'	124:KD:7:DC:H5'	1.92	0.49
139:M6:5:DC:C2'	139:M6:6:DT:H72	2.42	0.49
142:M9:5:DG:H1'	142:M9:6:DC:H5'	1.92	0.49
147:N3:25:DG:H1'	147:N3:26:DC:H5'	1.92	0.49
200:SA:26:DG:H1'	200:SA:27:DC:H5'	1.92	0.49
227:VA:22:DG:H1'	227:VA:23:DC:H5'	1.92	0.49
236:X5:7:DC:C2'	236:X5:8:DT:H72	2.42	0.49
6:A6:14:DC:C2'	6:A6:15:DT:H72	2.42	0.49
11:AB:1600:DC:C2'	11:AB:1601:DT:H72	2.42	0.49
11:AB:2345:DG:H1'	11:AB:2346:DC:H5'	1.92	0.49
11:AB:3445:DG:H1'	11:AB:3446:DC:H5'	1.92	0.49
11:AB:4241:DG:H1'	11:AB:4242:DC:H5'	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5050:DG:H2''	11:AB:5051:DC:O5'	2.13	0.49
11:AB:6964:DG:H1'	11:AB:6965:DC:H5'	1.92	0.49
65:F8:11:DG:H1'	65:F8:12:DC:H5'	1.92	0.49
117:K5:40:DG:H2''	117:K5:41:DC:O5'	2.13	0.49
151:N8:20:DG:H1'	151:N8:21:DC:H5'	1.92	0.49
152:N9:18:DG:H2''	152:N9:19:DC:O5'	2.13	0.49
214:U5:8:DG:H2''	214:U5:9:DC:O5'	2.13	0.49
225:V8:20:DG:H2''	225:V8:21:DC:O5'	2.13	0.49
232:W7:25:DC:C2'	232:W7:26:DT:H72	2.42	0.49
1:A1:15:DG:H2''	1:A1:16:DC:O5'	2.13	0.49
11:AB:817:DG:H1'	11:AB:818:DC:H5'	1.92	0.49
11:AB:1282:DG:H2''	11:AB:1283:DC:O5'	2.13	0.49
11:AB:1406:DG:H1'	11:AB:1407:DC:H5'	1.92	0.49
11:AB:2184:DG:H1'	11:AB:2185:DC:H5'	1.92	0.49
11:AB:2883:DG:H2''	11:AB:2884:DC:O5'	2.13	0.49
11:AB:3424:DG:H2''	11:AB:3425:DC:O5'	2.13	0.49
11:AB:3584:DG:H2''	11:AB:3585:DC:O5'	2.13	0.49
11:AB:3622:DC:C2'	11:AB:3623:DT:H72	2.41	0.49
11:AB:4490:DC:C2'	11:AB:4491:DT:H72	2.42	0.49
11:AB:5253:DG:H2''	11:AB:5254:DC:O5'	2.13	0.49
11:AB:5277:DG:H2''	11:AB:5278:DC:O5'	2.13	0.49
11:AB:5596:DC:C2'	11:AB:5597:DT:H72	2.41	0.49
11:AB:7208:DG:H1'	11:AB:7209:DC:H5'	1.92	0.49
30:C6:25:DG:H1'	30:C6:26:DC:H5'	1.92	0.49
31:C7:6:DC:C2'	31:C7:7:DT:H72	2.41	0.49
37:D1:36:DG:H2''	37:D1:37:DC:O5'	2.13	0.49
60:F2:5:DG:H2''	60:F2:6:DC:O5'	2.13	0.49
67:FA:29:DC:C2'	67:FA:30:DT:H72	2.41	0.49
75:G7:26:DG:H2''	75:G7:27:DC:O5'	2.13	0.49
123:KC:19:DG:H2''	123:KC:20:DC:O5'	2.13	0.49
200:SA:12:DG:H2''	200:SA:13:DC:O5'	2.13	0.49
209:TA:33:DG:H2''	209:TA:34:DC:O5'	2.13	0.49
10:AA:17:DG:H2''	10:AA:18:DC:O5'	2.13	0.49
11:AB:415:DG:H1'	11:AB:416:DC:H5'	1.92	0.49
11:AB:679:DC:C2'	11:AB:680:DT:H72	2.41	0.49
11:AB:1770:DG:H2''	11:AB:1771:DC:O5'	2.13	0.49
11:AB:1922:DG:H2''	11:AB:1923:DC:O5'	2.13	0.49
11:AB:2611:DC:C2'	11:AB:2612:DT:H72	2.41	0.49
11:AB:2885:DG:H2''	11:AB:2886:DC:O5'	2.13	0.49
11:AB:4400:DG:H2''	11:AB:4401:DC:O5'	2.13	0.49
11:AB:4493:DG:H2''	11:AB:4494:DC:O5'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4594:DC:C2'	11:AB:4595:DT:H72	2.41	0.49
11:AB:4654:DG:H2''	11:AB:4655:DC:O5'	2.13	0.49
11:AB:4959:DG:H2''	11:AB:4960:DC:O5'	2.13	0.49
11:AB:5930:DC:C2'	11:AB:5931:DT:H72	2.41	0.49
11:AB:6030:DG:H2''	11:AB:6031:DC:O5'	2.13	0.49
20:B7:9:DG:H2''	20:B7:10:DC:O5'	2.13	0.49
92:I1:24:DC:C2'	92:I1:25:DT:H72	2.41	0.49
180:Q8:5:DG:H2''	180:Q8:6:DC:O5'	2.13	0.49
220:UD:19:DG:H2''	220:UD:20:DC:O5'	2.13	0.49
2:A2:11:DG:H2''	2:A2:12:DC:O5'	2.13	0.49
11:AB:433:DC:C2'	11:AB:434:DT:H72	2.41	0.49
11:AB:574:DC:C2'	11:AB:575:DT:H72	2.41	0.49
11:AB:661:DG:H1'	11:AB:662:DC:H5'	1.93	0.49
11:AB:1703:DG:H2''	11:AB:1704:DC:O5'	2.13	0.49
11:AB:2668:DG:H2''	11:AB:2669:DC:O5'	2.13	0.49
11:AB:2823:DC:C2'	11:AB:2824:DT:H72	2.41	0.49
11:AB:3461:DG:H2''	11:AB:3462:DC:O5'	2.13	0.49
11:AB:3917:DG:H2''	11:AB:3918:DC:O5'	2.13	0.49
11:AB:4071:DG:H2''	11:AB:4072:DC:O5'	2.13	0.49
11:AB:4119:DC:C2'	11:AB:4120:DT:H72	2.41	0.49
11:AB:4980:DG:H2''	11:AB:4981:DC:O5'	2.13	0.49
11:AB:5783:DC:C2'	11:AB:5784:DT:H72	2.41	0.49
11:AB:6075:DC:C2'	11:AB:6076:DT:H72	2.41	0.49
11:AB:6997:DG:H2''	11:AB:6998:DC:O5'	2.13	0.49
27:C2:21:DC:C2'	27:C2:22:DT:H72	2.41	0.49
47:DD:41:DG:H2''	47:DD:42:DC:O5'	2.13	0.49
64:F7:12:DC:C2'	64:F7:13:DT:H72	2.41	0.49
74:G6:29:DG:H2''	74:G6:30:DC:O5'	2.13	0.49
82:H2:21:DG:H2''	82:H2:22:DC:O5'	2.13	0.49
111:JA:15:DC:C2'	111:JA:16:DT:H72	2.42	0.49
125:L1:55:DG:H2''	125:L1:56:DC:O5'	2.13	0.49
136:M2:6:DG:H2''	136:M2:7:DC:O5'	2.13	0.49
144:MC:6:DG:H2''	144:MC:7:DC:O5'	2.13	0.49
161:O8:53:DG:H2''	161:O8:54:DC:O5'	2.13	0.49
186:R3:13:DG:H2''	204:T3:8:DC:O5'	2.13	0.49
206:T7:2:DG:H2''	206:T7:3:DC:O5'	2.13	0.49
11:AB:391:DC:C2'	11:AB:392:DT:H72	2.41	0.49
11:AB:635:DG:H2''	11:AB:636:DC:O5'	2.13	0.49
11:AB:781:DG:H2''	11:AB:782:DC:O5'	2.13	0.49
11:AB:901:DG:H2''	11:AB:902:DC:O5'	2.13	0.49
11:AB:934:DC:C2'	11:AB:935:DT:H72	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1053:DG:H2''	11:AB:1054:DC:O5'	2.13	0.49
11:AB:1072:DC:C2'	11:AB:1073:DT:H72	2.42	0.49
11:AB:1502:DC:C2'	11:AB:1503:DT:H72	2.41	0.49
11:AB:1811:DG:H2''	11:AB:1812:DC:O5'	2.13	0.49
11:AB:1863:DG:H2''	11:AB:1864:DC:O5'	2.13	0.49
11:AB:2851:DG:H2''	11:AB:2852:DC:O5'	2.13	0.49
11:AB:3316:DG:H2''	11:AB:3317:DC:O5'	2.13	0.49
11:AB:3449:DG:H2''	11:AB:3450:DC:O5'	2.13	0.49
11:AB:3542:DG:H2''	11:AB:3543:DC:O5'	2.13	0.49
11:AB:3729:DG:H2''	11:AB:3730:DC:O5'	2.13	0.49
11:AB:3986:DG:H2''	11:AB:3987:DC:O5'	2.13	0.49
11:AB:3998:DG:H2''	11:AB:3999:DC:O5'	2.13	0.49
11:AB:5238:DG:H2''	11:AB:5239:DC:O5'	2.13	0.49
11:AB:5782:DG:H2''	11:AB:5783:DC:O5'	2.13	0.49
11:AB:5848:DG:H2''	11:AB:5849:DC:O5'	2.13	0.49
11:AB:6057:DG:H2''	11:AB:6058:DC:O5'	2.13	0.49
11:AB:6189:DG:H2''	11:AB:6190:DC:O5'	2.13	0.49
11:AB:6831:DG:H2''	11:AB:6832:DC:O5'	2.13	0.49
11:AB:6907:DG:H2''	11:AB:6908:DC:O5'	2.13	0.49
32:C8:25:DG:H2''	32:C8:26:DC:O5'	2.13	0.49
90:HC:15:DG:H2''	90:HC:16:DC:O5'	2.13	0.49
98:I8:38:DC:O5'	123:KC:16:DG:H2''	2.13	0.49
101:IC:19:DG:H2''	101:IC:20:DC:O5'	2.13	0.49
146:N2:22:DG:H2''	146:N2:23:DC:O5'	2.13	0.49
195:S3:7:DG:H2''	195:S3:8:DC:O5'	2.13	0.49
211:TD:41:DG:H2''	211:TD:42:DC:O5'	2.13	0.49
214:U5:22:DC:C2'	214:U5:23:DT:H72	2.41	0.49
11:AB:114:DG:H2''	11:AB:115:DC:O5'	2.13	0.49
11:AB:228:DG:H2''	11:AB:229:DC:O5'	2.13	0.49
11:AB:1040:DG:H2''	11:AB:1041:DC:O5'	2.13	0.49
11:AB:1501:DG:H2''	11:AB:1502:DC:O5'	2.13	0.49
11:AB:1883:DG:H2''	11:AB:1884:DC:O5'	2.13	0.49
11:AB:2373:DG:H2''	11:AB:2374:DC:O5'	2.13	0.49
11:AB:3491:DG:H2''	11:AB:3492:DC:O5'	2.13	0.49
11:AB:4850:DG:H2''	11:AB:4851:DC:O5'	2.13	0.49
11:AB:5594:DG:H2''	11:AB:5595:DC:O5'	2.13	0.49
11:AB:6004:DG:H2''	11:AB:6005:DC:O5'	2.13	0.49
14:B1:8:DC:O5'	117:K5:25:DG:H2''	2.13	0.49
15:B2:20:DG:H2''	15:B2:21:DC:O5'	2.13	0.49
20:B7:13:DG:H2''	97:I7:28:DC:O5'	2.13	0.49
32:C8:39:DG:H2''	32:C8:40:DC:O5'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:D6:22:DC:O5'	211:TD:21:DG:H2''	2.13	0.49
57:EC:14:DG:H2''	57:EC:15:DC:O5'	2.13	0.49
92:I1:23:DG:H2''	92:I1:24:DC:O5'	2.13	0.49
109:J8:34:DG:H2''	109:J8:35:DC:O5'	2.13	0.49
109:J8:42:DG:H2''	109:J8:43:DC:O5'	2.13	0.49
122:KA:13:DG:H2''	122:KA:14:DC:O5'	2.13	0.49
147:N3:20:DG:H2''	147:N3:21:DC:O5'	2.13	0.49
153:NA:15:DG:H2''	153:NA:16:DC:O5'	2.13	0.49
160:O7:13:DG:H2''	160:O7:14:DC:O5'	2.13	0.49
170:P7:12:DG:H2''	170:P7:13:DC:O5'	2.13	0.49
186:R3:19:DG:H2''	186:R3:20:DC:O5'	2.13	0.49
217:U9:21:DG:H2''	217:U9:22:DC:O5'	2.13	0.49
11:AB:548:DG:H2''	11:AB:549:DC:O5'	2.13	0.48
11:AB:833:DG:H2''	11:AB:834:DC:O5'	2.13	0.48
11:AB:835:DC:C2'	11:AB:836:DT:H72	2.42	0.48
11:AB:1521:DG:H2''	11:AB:1522:DC:O5'	2.13	0.48
11:AB:1979:DG:H2''	11:AB:1980:DC:O5'	2.13	0.48
11:AB:2588:DG:H2''	11:AB:2589:DC:O5'	2.13	0.48
11:AB:2910:DG:H2''	11:AB:2911:DC:O5'	2.13	0.48
11:AB:4118:DG:H2''	11:AB:4119:DC:O5'	2.13	0.48
11:AB:4139:DG:H2''	11:AB:4140:DC:O5'	2.13	0.48
11:AB:4757:DG:H2''	11:AB:4758:DC:O5'	2.13	0.48
11:AB:5024:DG:H2''	11:AB:5025:DC:O5'	2.13	0.48
11:AB:6154:DG:H2''	11:AB:6155:DC:O5'	2.13	0.48
11:AB:6492:DG:H2''	11:AB:6493:DC:O5'	2.13	0.48
11:AB:6821:DG:H2''	11:AB:6822:DC:O5'	2.13	0.48
11:AB:7050:DG:H2''	11:AB:7051:DC:O5'	2.13	0.48
12:AC:17:DC:O5'	109:J8:28:DG:H2''	2.13	0.48
94:I3:46:DC:O5'	117:K5:39:DG:H2''	2.13	0.48
99:I9:10:DG:H2''	99:I9:11:DC:O5'	2.13	0.48
104:J2:21:DG:H2''	230:W3:36:DC:O5'	2.13	0.48
131:L8:17:DG:H2''	146:N2:15:DC:O5'	2.13	0.48
152:N9:38:DG:H2''	165:OD:50:DC:O5'	2.13	0.48
174:PC:26:DG:H2''	174:PC:27:DC:O5'	2.13	0.48
214:U5:21:DG:H2''	214:U5:22:DC:O5'	2.13	0.48
11:AB:3442:DG:H2''	11:AB:3443:DC:O5'	2.13	0.48
11:AB:3621:DG:H2''	11:AB:3622:DC:O5'	2.13	0.48
11:AB:3697:DG:H2''	11:AB:3698:DC:O5'	2.13	0.48
11:AB:3775:DG:H2''	11:AB:3776:DC:O5'	2.13	0.48
11:AB:4105:DG:H2''	11:AB:4106:DC:O5'	2.13	0.48
11:AB:4622:DG:H2''	11:AB:4623:DC:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6730:DG:H2''	11:AB:6731:DC:O5'	2.13	0.48
27:C2:20:DG:H2''	27:C2:21:DC:O5'	2.13	0.48
37:D1:8:DC:O5'	138:M5:28:DG:H2''	2.13	0.48
204:T3:1:DG:H2''	204:T3:2:DC:O5'	2.13	0.48
205:T5:2:DG:H2''	205:T5:3:DC:O5'	2.13	0.48
11:AB:526:DG:H2''	11:AB:527:DC:O5'	2.13	0.48
11:AB:3888:DG:H2''	11:AB:3889:DC:O5'	2.13	0.48
11:AB:5756:DG:H2''	11:AB:5757:DC:O5'	2.13	0.48
11:AB:6755:DG:H2''	11:AB:6756:DC:O5'	2.13	0.48
11:AB:6825:DG:H2''	11:AB:6826:DC:O5'	2.13	0.48
31:C7:6:DC:O5'	49:E2:30:DG:H2''	2.13	0.48
85:H6:21:DG:H2''	85:H6:22:DC:O5'	2.13	0.48
186:R3:6:DG:H2''	186:R3:7:DC:O5'	2.13	0.48
189:R8:28:DG:H2''	189:R8:29:DC:O5'	2.13	0.48
195:S3:5:DG:H2''	195:S3:6:DC:O5'	2.13	0.48
238:X9:4:DG:H2''	238:X9:5:DC:O5'	2.13	0.48
11:AB:856:DG:H2''	11:AB:857:DC:O5'	2.13	0.48
11:AB:3168:DG:H2''	11:AB:3169:DC:O5'	2.13	0.48
11:AB:3838:DG:H2''	11:AB:3839:DC:O5'	2.13	0.48
11:AB:4702:DG:H2''	11:AB:4703:DC:O5'	2.13	0.48
11:AB:6752:DG:H2''	11:AB:6753:DC:O5'	2.13	0.48
24:BC:27:DG:H2''	35:CC:17:DC:O5'	2.13	0.48
51:E5:11:DG:H2''	51:E5:12:DC:O5'	2.13	0.48
61:F3:15:DG:H2''	61:F3:16:DC:O5'	2.13	0.48
74:G6:21:DG:H2''	74:G6:22:DC:O5'	2.13	0.48
74:G6:35:DG:H2''	74:G6:36:DC:O5'	2.13	0.48
109:J8:12:DG:H2''	109:J8:13:DC:O5'	2.13	0.48
122:KA:8:DC:O5'	209:TA:18:DG:H2''	2.13	0.48
125:L1:12:DG:H2''	125:L1:13:DC:O5'	2.13	0.48
150:N7:22:DG:H2''	150:N7:23:DC:O5'	2.13	0.48
183:QC:21:DG:H2''	183:QC:22:DC:O5'	2.13	0.48
185:R2:15:DG:H2''	185:R2:16:DC:O5'	2.13	0.48
186:R3:11:DG:H2''	186:R3:12:DC:O5'	2.13	0.48
4:A4:11:DG:H2''	4:A4:12:DC:O5'	2.13	0.48
6:A6:28:DG:H2''	6:A6:29:DC:O5'	2.13	0.48
11:AB:44:DG:H2''	11:AB:45:DC:O5'	2.13	0.48
11:AB:1284:DG:H2''	11:AB:1285:DC:O5'	2.13	0.48
11:AB:2654:DG:H2''	11:AB:2655:DC:O5'	2.13	0.48
11:AB:3679:DC:O5'	11:AB:4518:DG:H2''	2.13	0.48
11:AB:4004:DG:H2''	11:AB:4005:DC:O5'	2.13	0.48
11:AB:4583:DG:H2''	11:AB:4584:DC:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4689:DG:H2''	11:AB:4690:DC:O5'	2.13	0.48
11:AB:5772:DG:H2''	11:AB:5773:DC:O5'	2.13	0.48
11:AB:6050:DG:H2''	11:AB:6051:DC:O5'	2.13	0.48
11:AB:7072:DG:H2''	11:AB:7073:DC:O5'	2.13	0.48
14:B1:21:DG:H2''	14:B1:22:DC:O5'	2.13	0.48
15:B2:14:DC:O5'	30:C6:7:DG:H2''	2.13	0.48
27:C2:6:DG:H2''	27:C2:7:DC:O5'	2.13	0.48
48:E1:12:DG:H2''	48:E1:13:DC:O5'	2.13	0.48
104:J2:26:DG:H2''	104:J2:27:DC:O5'	2.13	0.48
109:J8:40:DG:H2''	109:J8:41:DC:O5'	2.13	0.48
132:L9:12:DG:H2''	132:L9:13:DC:O5'	2.13	0.48
133:LA:11:DC:O5'	182:QA:14:DG:H2''	2.13	0.48
139:M6:21:DG:H2''	139:M6:22:DC:O5'	2.13	0.48
147:N3:5:DG:H2''	147:N3:6:DC:O5'	2.13	0.48
159:O6:5:DG:H2''	159:O6:6:DC:O5'	2.13	0.48
11:AB:86:DG:H2''	11:AB:87:DC:O5'	2.13	0.48
11:AB:1038:DG:H2''	11:AB:1039:DC:O5'	2.13	0.48
11:AB:1161:DG:H2''	11:AB:1162:DC:O5'	2.13	0.48
11:AB:2033:DG:H2''	11:AB:5858:DC:O5'	2.13	0.48
11:AB:3530:DG:H2''	11:AB:4791:DC:O5'	2.13	0.48
11:AB:4574:DG:H2''	11:AB:4575:DC:O5'	2.13	0.48
11:AB:7012:DG:H2''	11:AB:7013:DC:O5'	2.13	0.48
17:B4:11:DG:H2''	17:B4:12:DC:O5'	2.13	0.48
51:E5:25:DG:H2''	51:E5:26:DC:O5'	2.13	0.48
52:E6:33:DG:H2''	52:E6:34:DC:O5'	2.13	0.48
58:ED:21:DG:H2''	58:ED:22:DC:O5'	2.13	0.48
131:L8:18:DC:O5'	146:N2:14:DG:H2''	2.13	0.48
158:O5:27:DG:H2''	198:S8:18:DC:O5'	2.13	0.48
169:P6:18:DG:H2''	169:P6:19:DC:O5'	2.13	0.48
178:Q5:5:DG:H2''	178:Q5:6:DC:O5'	2.13	0.48
192:RC:11:DG:H2''	192:RC:12:DC:O5'	2.13	0.48
213:U3:19:DG:H2''	213:U3:20:DC:O5'	2.13	0.48
11:AB:14:DG:H2''	11:AB:15:DC:O5'	2.13	0.48
11:AB:126:DG:H2''	11:AB:127:DC:O5'	2.13	0.48
11:AB:457:DG:H2''	11:AB:458:DC:O5'	2.13	0.48
11:AB:499:DG:H2''	11:AB:500:DC:O5'	2.13	0.48
11:AB:1026:DG:H2''	11:AB:1027:DC:O5'	2.13	0.48
11:AB:1347:DG:H2''	11:AB:1348:DC:O5'	2.13	0.48
11:AB:1898:DG:H2''	11:AB:1899:DC:O5'	2.13	0.48
11:AB:2018:DG:H2''	11:AB:2019:DC:O5'	2.13	0.48
11:AB:2296:DG:H2''	11:AB:2297:DC:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5534:DG:H2''	11:AB:5535:DC:O5'	2.13	0.48
11:AB:5824:DG:H2''	11:AB:5825:DC:O5'	2.13	0.48
11:AB:5860:DG:H2''	11:AB:5861:DC:O5'	2.13	0.48
11:AB:6211:DG:H2''	11:AB:6212:DC:O5'	2.13	0.48
11:AB:6400:DG:H2''	11:AB:6401:DC:O5'	2.13	0.48
11:AB:6905:DG:H2''	11:AB:6906:DC:O5'	2.13	0.48
49:E2:4:DG:H2''	49:E2:5:DC:O5'	2.13	0.48
67:FA:18:DG:H2''	67:FA:19:DC:O5'	2.13	0.48
68:FC:5:DG:H2''	68:FC:6:DC:O5'	2.13	0.48
79:GC:12:DG:H2''	79:GC:13:DC:O5'	2.13	0.48
82:H2:38:DG:H2''	82:H2:39:DC:O5'	2.13	0.48
99:I9:17:DG:H2''	99:I9:18:DC:O5'	2.13	0.48
99:I9:25:DG:H2''	99:I9:26:DC:O5'	2.13	0.48
110:J9:18:DG:H2''	110:J9:19:DC:O5'	2.13	0.48
112:JC:12:DG:H2''	112:JC:13:DC:O5'	2.13	0.48
139:M6:19:DG:H2''	139:M6:20:DC:O5'	2.13	0.48
5:A5:23:DG:H2''	5:A5:24:DC:O5'	2.13	0.48
11:AB:42:DG:H2''	11:AB:43:DC:O5'	2.13	0.48
11:AB:294:DG:H2''	11:AB:295:DC:O5'	2.13	0.48
11:AB:390:DG:H2''	11:AB:391:DC:O5'	2.13	0.48
11:AB:865:DC:O5'	11:AB:6788:DG:H2''	2.13	0.48
11:AB:993:DG:H2''	11:AB:994:DC:O5'	2.13	0.48
11:AB:1967:DG:H2''	11:AB:1968:DC:O5'	2.13	0.48
11:AB:2014:DG:H2''	11:AB:2015:DC:O5'	2.13	0.48
11:AB:2081:DG:H2''	11:AB:2082:DC:O5'	2.13	0.48
11:AB:3105:DG:H2''	11:AB:3106:DC:O5'	2.13	0.48
11:AB:3214:DG:H2''	11:AB:3215:DC:O5'	2.13	0.48
11:AB:3653:DG:H2''	11:AB:3654:DC:O5'	2.13	0.48
11:AB:3811:DG:H2''	11:AB:3812:DC:O5'	2.13	0.48
11:AB:4048:DG:H2''	11:AB:4049:DC:O5'	2.13	0.48
11:AB:4063:DG:H2''	11:AB:4064:DC:O5'	2.13	0.48
11:AB:4085:DG:H2''	11:AB:4086:DC:O5'	2.13	0.48
11:AB:4154:DG:H2''	11:AB:4155:DC:O5'	2.13	0.48
11:AB:4188:DG:H2''	11:AB:4189:DC:O5'	2.13	0.48
11:AB:4249:DG:H2''	11:AB:4250:DC:O5'	2.13	0.48
11:AB:4303:DG:H2''	11:AB:4304:DC:O5'	2.13	0.48
11:AB:5548:DG:H2''	11:AB:5549:DC:O5'	2.13	0.48
11:AB:5695:DG:H2''	11:AB:5696:DC:O5'	2.13	0.48
11:AB:6999:DG:H2''	11:AB:7000:DC:O5'	2.13	0.48
18:B5:3:DG:H2''	18:B5:4:DC:O5'	2.13	0.48
23:BA:17:DG:H2''	23:BA:18:DC:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:C8:4:DG:H2''	32:C8:5:DC:O5'	2.13	0.48
32:C8:8:DG:H2''	32:C8:9:DC:O5'	2.13	0.48
46:DC:16:DG:H2''	46:DC:17:DC:O5'	2.13	0.48
66:F9:7:DG:H2''	66:F9:8:DC:O5'	2.13	0.48
88:H9:31:DG:H2''	182:QA:1:DC:O5'	2.14	0.48
99:I9:21:DG:H2''	99:I9:22:DC:O5'	2.13	0.48
125:L1:25:DG:H2''	125:L1:26:DC:O5'	2.13	0.48
142:M9:5:DG:H2''	142:M9:6:DC:O5'	2.13	0.48
151:N8:15:DG:H2''	151:N8:16:DC:O5'	2.13	0.48
156:O2:29:DG:H2''	156:O2:30:DC:O5'	2.13	0.48
167:P3:29:DG:H2''	167:P3:30:DC:O5'	2.13	0.48
212:U2:10:DG:H2''	212:U2:11:DC:O5'	2.13	0.48
217:U9:7:DG:H2''	217:U9:8:DC:O5'	2.13	0.48
238:X9:49:DG:H2''	238:X9:50:DC:O5'	2.13	0.48
11:AB:328:DG:H2''	11:AB:329:DC:O5'	2.13	0.48
11:AB:913:DG:H2''	11:AB:914:DC:O5'	2.13	0.48
11:AB:1011:DG:H2''	11:AB:1012:DC:O5'	2.13	0.48
11:AB:1535:DG:H2''	11:AB:1536:DC:O5'	2.13	0.48
11:AB:1667:DG:H2''	11:AB:1668:DC:O5'	2.13	0.48
11:AB:1669:DG:H2''	11:AB:1670:DC:O5'	2.13	0.48
11:AB:1789:DG:H2''	11:AB:1790:DC:O5'	2.13	0.48
11:AB:1848:DG:H2''	11:AB:1849:DC:O5'	2.13	0.48
11:AB:1949:DG:H2''	11:AB:1950:DC:O5'	2.13	0.48
11:AB:2391:DG:H2''	11:AB:2392:DC:O5'	2.13	0.48
11:AB:3414:DG:H2''	11:AB:3415:DC:O5'	2.13	0.48
11:AB:3555:DG:H2''	11:AB:3556:DC:O5'	2.13	0.48
11:AB:3779:DG:H2''	11:AB:3780:DC:O5'	2.13	0.48
11:AB:4175:DG:H2''	11:AB:4176:DC:O5'	2.13	0.48
11:AB:4854:DG:H2''	11:AB:4855:DC:O5'	2.13	0.48
11:AB:5176:DG:H2''	11:AB:5177:DC:O5'	2.13	0.48
11:AB:5749:DG:H2''	11:AB:5750:DC:O5'	2.13	0.48
11:AB:6386:DG:H2''	11:AB:6387:DC:O5'	2.13	0.48
11:AB:7160:DG:H2''	11:AB:7161:DC:O5'	2.13	0.48
11:AB:7177:DG:H2''	11:AB:7178:DC:O5'	2.13	0.48
13:AD:43:DG:H2''	13:AD:44:DC:O5'	2.13	0.48
24:BC:8:DG:H2''	24:BC:9:DC:O5'	2.13	0.48
41:D6:5:DG:H2''	41:D6:6:DC:O5'	2.13	0.48
42:D7:19:DG:H2''	42:D7:20:DC:O5'	2.13	0.48
47:DD:38:DG:H2''	47:DD:39:DC:O5'	2.13	0.48
53:E7:16:DG:H2''	53:E7:17:DC:O5'	2.13	0.48
54:E8:28:DG:H2''	54:E8:29:DC:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:F8:11:DG:H2''	65:F8:12:DC:O5'	2.13	0.48
83:H3:5:DG:H2''	83:H3:6:DC:O5'	2.13	0.48
94:I3:20:DG:H2''	94:I3:21:DC:O5'	2.13	0.48
112:JC:2:DG:H2''	112:JC:3:DC:O5'	2.13	0.48
115:K2:15:DG:H2''	115:K2:16:DC:O5'	2.13	0.48
117:K5:3:DG:H2''	117:K5:4:DC:O5'	2.13	0.48
117:K5:27:DG:H2''	117:K5:28:DC:O5'	2.13	0.48
134:LC:16:DG:H2''	134:LC:17:DC:O5'	2.13	0.48
149:N6:50:DG:H2''	149:N6:51:DC:O5'	2.13	0.48
151:N8:20:DG:H2''	151:N8:21:DC:O5'	2.13	0.48
166:P2:28:DG:H2''	166:P2:29:DC:O5'	2.13	0.48
169:P6:5:DG:H2''	169:P6:6:DC:O5'	2.13	0.48
180:Q8:10:DG:H2''	180:Q8:11:DC:O5'	2.13	0.48
187:R5:18:DG:H2''	187:R5:19:DC:O5'	2.13	0.48
190:R9:45:DG:H2''	190:R9:46:DC:O5'	2.13	0.48
199:S9:20:DG:H2''	199:S9:21:DC:O5'	2.13	0.48
201:SC:5:DG:H2''	201:SC:6:DC:O5'	2.13	0.48
204:T3:5:DG:H2''	204:T3:6:DC:O5'	2.13	0.48
206:T7:12:DG:H2''	206:T7:13:DC:O5'	2.13	0.48
209:TA:16:DG:H2''	209:TA:17:DC:O5'	2.13	0.48
11:AB:90:DG:H2''	11:AB:91:DC:O5'	2.13	0.48
11:AB:204:DG:H2''	11:AB:205:DC:O5'	2.13	0.48
11:AB:307:DG:H2''	11:AB:308:DC:O5'	2.13	0.48
11:AB:726:DG:H2''	11:AB:727:DC:O5'	2.13	0.48
11:AB:1126:DG:H2''	11:AB:1127:DC:O5'	2.13	0.48
11:AB:1165:DG:H2''	11:AB:1166:DC:O5'	2.13	0.48
11:AB:1927:DG:H2''	11:AB:1928:DC:O5'	2.13	0.48
11:AB:1971:DG:H2''	11:AB:1972:DC:O5'	2.13	0.48
11:AB:2311:DG:H2''	11:AB:2312:DC:O5'	2.13	0.48
11:AB:2538:DG:H2''	11:AB:2539:DC:O5'	2.13	0.48
11:AB:2996:DG:H2''	11:AB:2997:DC:O5'	2.13	0.48
11:AB:4088:DG:H2''	11:AB:4089:DC:O5'	2.13	0.48
11:AB:4127:DG:H2''	11:AB:4128:DC:O5'	2.13	0.48
11:AB:4496:DG:H2''	11:AB:4497:DC:O5'	2.13	0.48
11:AB:4602:DG:H2''	11:AB:4603:DC:O5'	2.13	0.48
11:AB:4672:DG:H2''	11:AB:4673:DC:O5'	2.13	0.48
11:AB:4725:DG:H2''	11:AB:4726:DC:O5'	2.13	0.48
11:AB:4846:DG:H2''	11:AB:4847:DC:O5'	2.13	0.48
11:AB:4925:DG:H2''	11:AB:4926:DC:O5'	2.13	0.48
11:AB:5113:DG:H2''	11:AB:5114:DC:O5'	2.13	0.48
11:AB:5134:DG:H2''	11:AB:5135:DC:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5704:DG:H2''	11:AB:5705:DC:O5'	2.13	0.48
11:AB:6337:DG:H2''	11:AB:6338:DC:O5'	2.13	0.48
11:AB:6474:DG:H2''	11:AB:6475:DC:O5'	2.13	0.48
11:AB:6505:DG:H2''	11:AB:6506:DC:O5'	2.13	0.48
11:AB:6833:DG:H2''	11:AB:6834:DC:O5'	2.13	0.48
11:AB:7084:DG:H2''	11:AB:7085:DC:O5'	2.13	0.48
11:AB:7217:DG:H2''	11:AB:7218:DC:O5'	2.13	0.48
13:AD:28:DG:H2''	13:AD:29:DC:O5'	2.13	0.48
18:B5:8:DG:H2''	18:B5:9:DC:O5'	2.13	0.48
35:CC:31:DG:H2''	35:CC:32:DC:O5'	2.13	0.48
37:D1:31:DG:H2''	37:D1:32:DC:O5'	2.13	0.48
40:D5:24:DG:H2''	40:D5:25:DC:O5'	2.13	0.48
52:E6:30:DG:H2''	52:E6:31:DC:O5'	2.13	0.48
58:ED:7:DG:H2''	58:ED:8:DC:O5'	2.13	0.48
58:ED:29:DG:H2''	58:ED:30:DC:O5'	2.13	0.48
60:F2:22:DG:H2''	60:F2:23:DC:O5'	2.13	0.48
70:G1:6:DG:H2''	70:G1:7:DC:O5'	2.13	0.48
93:I2:30:DG:H2''	93:I2:31:DC:O5'	2.13	0.48
106:J5:27:DG:H2''	106:J5:28:DC:O5'	2.13	0.48
107:J6:22:DG:H2''	107:J6:23:DC:O5'	2.13	0.48
108:J7:20:DG:H2''	108:J7:21:DC:O5'	2.13	0.48
113:JD:12:DG:H2''	113:JD:13:DC:O5'	2.13	0.48
115:K2:17:DG:H2''	115:K2:18:DC:O5'	2.13	0.48
118:K6:9:DG:H2''	118:K6:10:DC:O5'	2.13	0.48
143:MA:11:DG:H2''	143:MA:12:DC:O5'	2.13	0.48
145:MD:24:DG:H2''	145:MD:25:DC:O5'	2.13	0.48
155:ND:20:DG:H2''	175:PD:1:DC:O5'	2.13	0.48
163:OA:2:DG:H2''	163:OA:3:DC:O5'	2.13	0.48
174:PC:11:DG:H2''	174:PC:12:DC:O5'	2.13	0.48
188:R7:14:DG:H2''	188:R7:15:DC:O5'	2.13	0.48
200:SA:26:DG:H2''	200:SA:27:DC:O5'	2.13	0.48
209:TA:12:DG:H2''	209:TA:13:DC:O5'	2.13	0.48
217:U9:11:DG:H2''	217:U9:12:DC:O5'	2.13	0.48
223:V5:37:DG:H2''	223:V5:38:DC:O5'	2.13	0.48
227:VA:7:DG:H2''	227:VA:8:DC:O5'	2.13	0.48
228:VC:12:DG:H2''	228:VC:13:DC:O5'	2.13	0.48
233:W8:18:DG:H2''	233:W8:19:DC:O5'	2.13	0.48
11:AB:442:DG:H2''	11:AB:443:DC:O5'	2.13	0.47
11:AB:738:DG:H2''	11:AB:739:DC:O5'	2.13	0.47
11:AB:768:DG:H2''	11:AB:769:DC:O5'	2.13	0.47
11:AB:1077:DG:H2''	11:AB:1078:DC:O5'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1182:DG:H2''	11:AB:1183:DC:O5'	2.13	0.47
11:AB:1406:DG:H2''	11:AB:1407:DC:O5'	2.13	0.47
11:AB:1573:DG:H2''	11:AB:1574:DC:O5'	2.13	0.47
11:AB:2171:DG:H2''	11:AB:2172:DC:O5'	2.13	0.47
11:AB:2273:DG:H2''	11:AB:2274:DC:O5'	2.13	0.47
11:AB:2918:DG:H2''	11:AB:2919:DC:O5'	2.13	0.47
11:AB:3142:DG:H2''	11:AB:3143:DC:O5'	2.13	0.47
11:AB:4038:DG:H2''	11:AB:4039:DC:O5'	2.13	0.47
11:AB:4472:DG:H2''	11:AB:4473:DC:O5'	2.13	0.47
11:AB:5036:DG:H2''	11:AB:5037:DC:O5'	2.13	0.47
11:AB:5468:DG:H2''	11:AB:5469:DC:O5'	2.13	0.47
11:AB:5636:DG:H2''	11:AB:5637:DC:O5'	2.13	0.47
11:AB:5864:DG:H2''	11:AB:5865:DC:O5'	2.13	0.47
11:AB:6218:DG:H2''	11:AB:6219:DC:O5'	2.13	0.47
11:AB:6734:DG:H2''	11:AB:6735:DC:O5'	2.13	0.47
11:AB:6964:DG:H2''	11:AB:6965:DC:O5'	2.13	0.47
11:AB:7154:DG:H2''	11:AB:7155:DC:O5'	2.13	0.47
24:BC:39:DG:H2''	24:BC:40:DC:O5'	2.13	0.47
41:D6:19:DG:H2''	41:D6:20:DC:O5'	2.13	0.47
63:F6:9:DG:H2''	63:F6:10:DC:O5'	2.13	0.47
69:FD:37:DG:H2''	69:FD:38:DC:O5'	2.13	0.47
84:H5:20:DG:H2''	84:H5:21:DC:O5'	2.13	0.47
88:H9:11:DG:H2''	88:H9:12:DC:O5'	2.13	0.47
90:HC:8:DG:H2''	90:HC:9:DC:O5'	2.13	0.47
103:J1:13:DG:H2''	103:J1:14:DC:O5'	2.13	0.47
114:K1:16:DG:H2''	114:K1:17:DC:O5'	2.13	0.47
128:L5:10:DG:H2''	128:L5:11:DC:O5'	2.13	0.47
133:LA:6:DG:H2''	133:LA:7:DC:O5'	2.13	0.47
187:R5:4:DG:H2''	187:R5:5:DC:O5'	2.13	0.47
195:S3:2:DG:H2''	195:S3:3:DC:O5'	2.13	0.47
204:T3:20:DG:H2''	204:T3:21:DC:O5'	2.13	0.47
214:U5:17:DG:H2''	214:U5:18:DC:O5'	2.13	0.47
223:V5:10:DG:H2''	223:V5:11:DC:O5'	2.13	0.47
11:AB:386:DG:H2''	11:AB:387:DC:O5'	2.13	0.47
11:AB:415:DG:H2''	11:AB:416:DC:O5'	2.13	0.47
11:AB:817:DG:H2''	11:AB:818:DC:O5'	2.13	0.47
11:AB:859:DG:H2''	11:AB:860:DC:O5'	2.13	0.47
11:AB:943:DG:H2''	11:AB:944:DC:O5'	2.13	0.47
11:AB:958:DG:H2''	11:AB:959:DC:O5'	2.13	0.47
11:AB:1095:DG:H2''	11:AB:1096:DC:O5'	2.13	0.47
11:AB:1131:DG:H2''	11:AB:1132:DC:O5'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2184:DG:H2''	11:AB:2185:DC:O5'	2.13	0.47
11:AB:2345:DG:H2''	11:AB:2346:DC:O5'	2.13	0.47
11:AB:3022:DG:H2''	11:AB:3023:DC:O5'	2.13	0.47
11:AB:3445:DG:H2''	11:AB:3446:DC:O5'	2.13	0.47
11:AB:3953:DG:H2''	11:AB:3954:DC:O5'	2.13	0.47
11:AB:4025:DG:H2''	11:AB:4026:DC:O5'	2.13	0.47
11:AB:4107:DG:H2''	11:AB:4108:DC:O5'	2.13	0.47
11:AB:4110:DG:H2''	11:AB:4111:DC:O5'	2.13	0.47
11:AB:4131:DG:H2''	11:AB:4132:DC:O5'	2.13	0.47
11:AB:4184:DG:H2''	11:AB:4185:DC:O5'	2.14	0.47
11:AB:4515:DG:H2''	11:AB:4516:DC:O5'	2.13	0.47
11:AB:4532:DG:H2''	11:AB:4533:DC:O5'	2.13	0.47
11:AB:4667:DG:H2''	11:AB:4668:DC:O5'	2.13	0.47
11:AB:4859:DG:H2''	11:AB:4860:DC:O5'	2.13	0.47
11:AB:5215:DG:H2''	11:AB:5216:DC:O5'	2.13	0.47
11:AB:7187:DG:H2''	11:AB:7188:DC:O5'	2.13	0.47
11:AB:7208:DG:H2''	11:AB:7209:DC:O5'	2.13	0.47
11:AB:7214:DG:H2''	11:AB:7215:DC:O5'	2.13	0.47
11:AB:7235:DG:H2''	11:AB:7236:DC:O5'	2.13	0.47
22:B9:4:DG:H2''	22:B9:5:DC:O5'	2.13	0.47
30:C6:25:DG:H2''	30:C6:26:DC:O5'	2.13	0.47
38:D2:17:DG:H2''	38:D2:18:DC:O5'	2.13	0.47
41:D6:3:DG:H2''	41:D6:4:DC:O5'	2.13	0.47
43:D8:9:DG:H2''	43:D8:10:DC:O5'	2.13	0.47
55:E9:22:DG:H2''	55:E9:23:DC:O5'	2.13	0.47
69:FD:44:DG:H2''	69:FD:45:DC:O5'	2.13	0.47
80:GD:21:DG:H2''	80:GD:22:DC:O5'	2.13	0.47
82:H2:5:DG:H2''	82:H2:6:DC:O5'	2.13	0.47
86:H7:21:DG:H2''	86:H7:22:DC:O5'	2.13	0.47
88:H9:27:DG:H2''	88:H9:28:DC:O5'	2.13	0.47
91:HD:19:DG:H2''	91:HD:20:DC:O5'	2.13	0.47
95:I5:42:DG:H2''	187:R5:1:DC:O5'	2.13	0.47
106:J5:30:DG:H2''	106:J5:31:DC:O5'	2.13	0.47
110:J9:15:DG:H2''	110:J9:16:DC:O5'	2.13	0.47
124:KD:6:DG:H2''	124:KD:7:DC:O5'	2.13	0.47
143:MA:30:DG:H2''	143:MA:31:DC:O5'	2.13	0.47
147:N3:12:DG:H2''	147:N3:13:DC:O5'	2.13	0.47
154:NC:26:DG:H2''	154:NC:27:DC:O5'	2.13	0.47
173:PA:36:DG:H2''	173:PA:37:DC:O5'	2.13	0.47
174:PC:7:DG:H2''	174:PC:8:DC:O5'	2.13	0.47
175:PD:17:DG:H2''	175:PD:18:DC:O5'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
187:R5:10:DG:H2''	187:R5:11:DC:O5'	2.13	0.47
192:RC:7:DG:H2''	192:RC:8:DC:O5'	2.13	0.47
222:V3:10:DG:H2''	222:V3:11:DC:O5'	2.13	0.47
227:VA:22:DG:H2''	227:VA:23:DC:O5'	2.13	0.47
11:AB:590:DG:H2''	11:AB:591:DC:O5'	2.13	0.47
11:AB:1060:DG:H2''	11:AB:1061:DC:O5'	2.13	0.47
11:AB:1267:DG:H2''	11:AB:1268:DC:O5'	2.13	0.47
11:AB:2169:DG:H2''	11:AB:2170:DC:O5'	2.13	0.47
11:AB:2556:DG:H2''	11:AB:2557:DC:O5'	2.13	0.47
11:AB:4074:DG:H2''	11:AB:4075:DC:O5'	2.13	0.47
11:AB:4428:DG:H2''	11:AB:4429:DC:O5'	2.13	0.47
11:AB:4600:DG:H2''	11:AB:4601:DC:O5'	2.13	0.47
11:AB:4809:DG:H2''	11:AB:4810:DC:O5'	2.13	0.47
11:AB:4943:DG:H2''	11:AB:4944:DC:O5'	2.13	0.47
11:AB:5058:DG:H2''	11:AB:5059:DC:O5'	2.13	0.47
11:AB:5132:DG:H2''	11:AB:5133:DC:O5'	2.13	0.47
11:AB:5521:DG:H2''	11:AB:5522:DC:O5'	2.13	0.47
11:AB:5681:DG:H2''	11:AB:5682:DC:O5'	2.13	0.47
11:AB:6146:DG:H2''	11:AB:6147:DC:O5'	2.13	0.47
11:AB:6463:DG:H2''	11:AB:6464:DC:O5'	2.13	0.47
11:AB:6693:DG:H2''	11:AB:6694:DC:O5'	2.13	0.47
46:DC:8:DG:H2''	46:DC:9:DC:O5'	2.13	0.47
61:F3:1:DC:O5'	72:G3:28:DG:H2''	2.14	0.47
120:K8:6:DG:H2''	120:K8:7:DC:O5'	2.13	0.47
140:M7:16:DG:H2''	140:M7:17:DC:O5'	2.13	0.47
143:MA:9:DG:H2''	143:MA:10:DC:O5'	2.13	0.47
145:MD:38:DG:H2''	145:MD:39:DC:O5'	2.13	0.47
147:N3:25:DG:H2''	147:N3:26:DC:O5'	2.13	0.47
160:O7:1:DG:H2''	160:O7:2:DC:O5'	2.13	0.47
174:PC:23:DG:H2''	174:PC:24:DC:O5'	2.13	0.47
196:S5:13:DG:H2''	196:S5:14:DC:O5'	2.13	0.47
11:AB:862:DG:H2''	11:AB:863:DC:O5'	2.13	0.47
11:AB:1855:DG:H2''	11:AB:1856:DC:O5'	2.13	0.47
11:AB:2877:DG:H2''	11:AB:2878:DC:O5'	2.13	0.47
11:AB:3469:DG:H2''	11:AB:3470:DC:O5'	2.13	0.47
11:AB:3871:DG:H2''	11:AB:3872:DC:O5'	2.13	0.47
11:AB:4083:DG:H2''	11:AB:4084:DC:O5'	2.13	0.47
11:AB:5062:DG:H2''	11:AB:5063:DC:O5'	2.13	0.47
11:AB:6024:DG:H2''	11:AB:6025:DC:O5'	2.13	0.47
11:AB:6130:DG:H2''	11:AB:6131:DC:O5'	2.13	0.47
11:AB:7190:DG:H2''	11:AB:7191:DC:O5'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AC:18:DG:H2''	12:AC:19:DC:O5'	2.13	0.47
22:B9:41:DG:H2''	22:B9:42:DC:O5'	2.13	0.47
32:C8:47:DG:H2''	32:C8:48:DC:O5'	2.13	0.47
41:D6:16:DC:H2'	41:D6:17:DT:H72	1.97	0.47
46:DC:20:DG:H2''	46:DC:21:DC:O5'	2.13	0.47
68:FC:17:DG:H2''	68:FC:18:DC:O5'	2.13	0.47
93:I2:45:DG:H2''	93:I2:46:DC:O5'	2.13	0.47
108:J7:16:DC:H2'	108:J7:17:DT:H72	1.97	0.47
113:JD:30:DG:H2''	113:JD:31:DC:O5'	2.13	0.47
115:K2:9:DG:H2''	115:K2:10:DC:O5'	2.13	0.47
119:K7:27:DG:H2''	119:K7:28:DC:O5'	2.13	0.47
129:L6:23:DG:H2''	129:L6:24:DC:O5'	2.13	0.47
154:NC:32:DC:O5'	216:U8:24:DG:H2''	2.13	0.47
158:O5:50:DG:H2''	158:O5:51:DC:O5'	2.13	0.47
179:Q7:22:DG:H2''	179:Q7:23:DC:O5'	2.13	0.47
184:QD:15:DC:O5'	238:X9:10:DG:H2''	2.13	0.47
191:RA:9:DG:H2''	191:RA:10:DC:O5'	2.13	0.47
11:AB:1429:DG:H2''	11:AB:1430:DC:O5'	2.13	0.47
11:AB:1611:DG:H2''	11:AB:1612:DC:O5'	2.13	0.47
11:AB:1914:DG:H2''	11:AB:1915:DC:O5'	2.13	0.47
11:AB:2329:DC:H2'	11:AB:2330:DT:H72	1.97	0.47
11:AB:2669:DC:H2'	11:AB:2670:DT:H72	1.97	0.47
11:AB:2729:DG:H2''	11:AB:2730:DC:O5'	2.13	0.47
11:AB:2852:DC:H2'	11:AB:2853:DT:H72	1.97	0.47
11:AB:3317:DC:H2'	11:AB:3318:DT:H72	1.97	0.47
11:AB:3369:DG:H2''	11:AB:3370:DC:O5'	2.13	0.47
11:AB:3514:DG:H2''	11:AB:3515:DC:O5'	2.13	0.47
11:AB:4241:DG:H2''	11:AB:4242:DC:O5'	2.13	0.47
11:AB:4711:DG:H2''	11:AB:4712:DC:O5'	2.13	0.47
11:AB:4967:DG:H2''	11:AB:4968:DC:O5'	2.13	0.47
11:AB:5010:DG:H2''	11:AB:5011:DC:O5'	2.13	0.47
11:AB:5861:DC:H2'	11:AB:5862:DT:H72	1.97	0.47
11:AB:6298:DG:H2''	11:AB:6299:DC:O5'	2.13	0.47
24:BC:15:DG:H2''	24:BC:16:DC:O5'	2.13	0.47
42:D7:14:DG:H2''	97:I7:21:DC:O5'	2.13	0.47
47:DD:29:DG:H2''	47:DD:30:DC:O5'	2.13	0.47
50:E3:2:DG:H2''	50:E3:3:DC:O5'	2.13	0.47
53:E7:11:DG:H2''	53:E7:12:DC:O5'	2.13	0.47
54:E8:26:DG:H2''	54:E8:27:DC:O5'	2.13	0.47
69:FD:2:DG:H2''	69:FD:3:DC:O5'	2.13	0.47
72:G3:14:DG:H2''	72:G3:15:DC:O5'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
106:J5:7:DG:H2''	106:J5:8:DC:O5'	2.13	0.47
160:O7:14:DC:H2'	160:O7:15:DT:H72	1.97	0.47
162:O9:8:DC:H2'	162:O9:9:DT:H72	1.97	0.47
209:TA:27:DG:H2''	209:TA:28:DC:O5'	2.13	0.47
211:TD:10:DG:H2''	211:TD:11:DC:O5'	2.13	0.47
11:AB:196:DC:H2'	11:AB:197:DT:H72	1.97	0.47
11:AB:1812:DC:H2'	11:AB:1813:DT:H72	1.97	0.47
11:AB:3296:DC:H2'	11:AB:3297:DT:H72	1.97	0.47
11:AB:3450:DC:H2'	11:AB:3451:DT:H72	1.97	0.47
11:AB:3776:DC:H2'	11:AB:3777:DT:H72	1.97	0.47
11:AB:5483:DG:H2''	11:AB:5484:DC:O5'	2.13	0.47
11:AB:6918:DG:H2''	11:AB:6919:DC:O5'	2.13	0.47
65:F8:3:DG:H2''	65:F8:4:DC:O5'	2.13	0.47
69:FD:31:DG:H2''	69:FD:32:DC:O5'	2.13	0.47
82:H2:43:DG:H2''	82:H2:44:DC:O5'	2.13	0.47
190:R9:28:DG:H2''	190:R9:29:DC:O5'	2.13	0.47
11:AB:61:DG:H2''	11:AB:62:DC:O5'	2.13	0.47
11:AB:175:DC:H2'	11:AB:176:DT:H72	1.97	0.47
11:AB:427:DG:H2''	11:AB:428:DC:O5'	2.13	0.47
11:AB:536:DG:H2''	11:AB:537:DC:O5'	2.13	0.47
11:AB:661:DG:H2''	11:AB:662:DC:O5'	2.14	0.47
11:AB:2443:DT:H72	11:AB:5366:DC:H2'	1.97	0.47
11:AB:2647:DC:H2'	11:AB:2648:DT:H72	1.97	0.47
11:AB:2972:DC:H2'	11:AB:2973:DT:H72	1.97	0.47
11:AB:3053:DC:H2'	11:AB:3054:DT:H72	1.97	0.47
11:AB:4061:DG:H2''	11:AB:4062:DC:O5'	2.13	0.47
11:AB:4203:DC:H2'	11:AB:4204:DT:H72	1.97	0.47
11:AB:4829:DC:H2'	11:AB:4830:DT:H72	1.97	0.47
11:AB:5045:DG:H2''	11:AB:5046:DC:O5'	2.13	0.47
11:AB:5119:DG:H2''	11:AB:5120:DC:O5'	2.14	0.47
11:AB:6223:DG:H2''	11:AB:6224:DC:O5'	2.14	0.47
31:C7:17:DC:H2'	31:C7:18:DT:H72	1.97	0.47
38:D2:14:DG:H2''	38:D2:15:DC:O5'	2.13	0.47
83:H3:2:DC:H2'	83:H3:3:DT:H72	1.97	0.47
85:H6:17:DG:H2''	85:H6:18:DC:O5'	2.13	0.47
94:I3:55:DG:H2''	94:I3:56:DC:O5'	2.13	0.47
104:J2:3:DG:H2''	104:J2:4:DC:O5'	2.13	0.47
117:K5:13:DC:H2'	117:K5:14:DT:H72	1.97	0.47
160:O7:21:DC:H2'	160:O7:22:DT:H72	1.97	0.47
174:PC:8:DC:H2'	174:PC:9:DT:H72	1.97	0.47
227:VA:27:DC:H2'	227:VA:28:DT:H72	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
236:X5:5:DG:H2''	236:X5:6:DC:O5'	2.13	0.47
236:X5:7:DC:H2'	236:X5:8:DT:H72	1.97	0.47
6:A6:14:DC:H2'	6:A6:15:DT:H72	1.97	0.47
11:AB:280:DC:H2'	11:AB:281:DT:H72	1.97	0.47
11:AB:322:DC:H2'	11:AB:323:DT:H72	1.97	0.47
11:AB:343:DC:H2'	11:AB:344:DT:H72	1.97	0.47
11:AB:1277:DC:H2'	11:AB:1278:DT:H72	1.97	0.47
11:AB:1600:DC:H2'	11:AB:1601:DT:H72	1.97	0.47
11:AB:4012:DT:H72	11:AB:4347:DC:H2'	1.97	0.47
11:AB:4840:DC:H2'	11:AB:4841:DT:H72	1.97	0.47
11:AB:4865:DG:H2''	11:AB:4866:DC:O5'	2.13	0.47
11:AB:6618:DC:H2'	11:AB:6619:DT:H72	1.97	0.47
30:C6:17:DG:H2''	30:C6:18:DC:O5'	2.13	0.47
30:C6:19:DC:H2'	30:C6:20:DT:H72	1.97	0.47
30:C6:31:DG:H2''	30:C6:32:DC:O5'	2.13	0.47
37:D1:17:DG:H2''	37:D1:18:DC:O5'	2.13	0.47
52:E6:16:DG:H2''	52:E6:17:DC:O5'	2.13	0.47
83:H3:37:DG:H2''	83:H3:38:DC:O5'	2.13	0.47
108:J7:51:DC:H2'	108:J7:52:DT:H72	1.97	0.47
139:M6:5:DC:H2'	139:M6:6:DT:H72	1.97	0.47
140:M7:13:DG:H2''	140:M7:14:DC:O5'	2.13	0.47
232:W7:25:DC:H2'	232:W7:26:DT:H72	1.97	0.47
7:A7:15:DG:H2''	7:A7:16:DC:O5'	2.13	0.47
9:A9:6:DG:H1'	9:A9:7:DA:H5'	1.97	0.47
11:AB:928:DG:H2''	11:AB:929:DC:O5'	2.13	0.47
11:AB:1200:DG:H1'	11:AB:1201:DA:H5'	1.97	0.47
11:AB:1706:DG:H2''	11:AB:1707:DC:O5'	2.13	0.47
11:AB:3769:DG:H2''	11:AB:3770:DC:O5'	2.13	0.47
11:AB:4076:DG:H2''	11:AB:4077:DC:O5'	2.13	0.47
11:AB:4141:DG:H2''	11:AB:4142:DC:O5'	2.13	0.47
11:AB:4490:DC:H2'	11:AB:4491:DT:H72	1.97	0.47
11:AB:4525:DG:H2''	11:AB:4526:DC:O5'	2.13	0.47
11:AB:4665:DG:H2''	11:AB:4666:DC:O5'	2.13	0.47
11:AB:5743:DG:H1'	11:AB:5744:DA:H5'	1.97	0.47
11:AB:6233:DA:C2'	11:AB:6234:DT:H72	2.45	0.47
88:H9:12:DC:H2'	88:H9:13:DT:H72	1.97	0.47
99:I9:18:DC:H2'	99:I9:19:DT:H72	1.97	0.47
113:JD:38:DG:H2''	227:VA:1:DC:O5'	2.13	0.47
176:Q2:11:DC:H2'	176:Q2:12:DT:H72	1.97	0.47
197:S7:23:DG:H1'	197:S7:24:DA:H5'	1.97	0.47
230:W3:48:DG:H1'	230:W3:49:DA:H5'	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
231:W5:13:DG:H2''	231:W5:14:DC:O5'	2.13	0.47
11:AB:1981:DG:H2''	11:AB:1982:DC:O5'	2.13	0.47
11:AB:2379:DG:H1'	11:AB:2380:DA:H5'	1.97	0.47
11:AB:2435:DG:H2''	11:AB:2436:DC:O5'	2.13	0.47
11:AB:2754:DG:H1'	11:AB:2755:DA:H5'	1.98	0.47
11:AB:3790:DG:H2''	11:AB:4463:DC:O5'	2.13	0.47
11:AB:4172:DC:H2'	11:AB:4173:DT:H72	1.97	0.47
11:AB:4645:DG:H1'	11:AB:4646:DA:H5'	1.98	0.47
11:AB:4842:DG:H2''	11:AB:4843:DC:O5'	2.13	0.47
11:AB:4920:DG:H2''	11:AB:4921:DC:O5'	2.13	0.47
11:AB:5019:DG:H2''	11:AB:5020:DC:O5'	2.13	0.47
11:AB:5242:DG:H2''	11:AB:5243:DC:O5'	2.13	0.47
11:AB:6328:DG:H1'	11:AB:6329:DA:H5'	1.97	0.47
11:AB:6349:DG:H2''	11:AB:6350:DC:O5'	2.13	0.47
11:AB:6543:DG:H1'	11:AB:6544:DA:H5'	1.97	0.47
21:B8:1:DT:H72	224:V7:22:DA:C2'	2.45	0.47
32:C8:37:DG:H1'	32:C8:38:DA:H5'	1.97	0.47
50:E3:4:DG:H2''	50:E3:5:DC:O5'	2.13	0.47
56:EA:20:DG:H2''	56:EA:21:DC:O5'	2.13	0.47
69:FD:46:DG:H2''	69:FD:47:DC:O5'	2.13	0.47
88:H9:14:DG:H2''	88:H9:15:DC:O5'	2.13	0.47
93:I2:41:DG:H1'	93:I2:42:DA:H5'	1.97	0.47
95:I5:14:DG:H2''	138:M5:36:DC:O5'	2.13	0.47
97:I7:31:DG:H2''	97:I7:32:DC:O5'	2.13	0.47
97:I7:33:DG:H1'	97:I7:34:DA:H5'	1.97	0.47
99:I9:1:DT:H72	133:LA:22:DA:C2'	2.45	0.47
107:J6:23:DC:H2'	107:J6:24:DT:H72	1.97	0.47
109:J8:2:DG:H2''	109:J8:3:DC:O5'	2.13	0.47
119:K7:39:DG:H2''	119:K7:40:DC:O5'	2.13	0.47
127:L3:4:DG:H2''	127:L3:5:DC:O5'	2.13	0.47
143:MA:43:DG:H2''	143:MA:44:DC:O5'	2.13	0.47
166:P2:11:DG:H2''	166:P2:12:DC:O5'	2.13	0.47
194:S2:29:DG:H2''	194:S2:30:DC:O5'	2.13	0.47
216:U8:19:DG:H2''	216:U8:20:DC:O5'	2.13	0.47
223:V5:22:DG:H2''	223:V5:23:DC:O5'	2.13	0.47
2:A2:3:DG:H2''	2:A2:4:DC:O5'	2.13	0.46
5:A5:32:DC:H2'	5:A5:33:DT:H72	1.97	0.46
11:AB:405:DG:H1'	11:AB:406:DA:H5'	1.98	0.46
11:AB:697:DA:C2'	11:AB:698:DT:H72	2.45	0.46
11:AB:1092:DG:H2''	11:AB:1093:DC:O5'	2.13	0.46
11:AB:1116:DG:H1'	11:AB:1117:DA:H5'	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1395:DG:H2''	11:AB:1396:DC:O5'	2.13	0.46
11:AB:1559:DG:H2''	11:AB:1560:DC:O5'	2.13	0.46
11:AB:1613:DG:H2''	11:AB:1614:DC:O5'	2.13	0.46
11:AB:1798:DG:H2''	11:AB:1799:DC:O5'	2.13	0.46
11:AB:1819:DG:H2''	11:AB:1820:DC:O5'	2.13	0.46
11:AB:2106:DG:H2''	11:AB:2107:DC:O5'	2.13	0.46
11:AB:2263:DG:H2''	11:AB:2264:DC:O5'	2.13	0.46
11:AB:2713:DG:H2''	11:AB:2714:DC:O5'	2.13	0.46
11:AB:3568:DG:H2''	11:AB:3569:DC:O5'	2.13	0.46
11:AB:3720:DG:H2''	11:AB:4477:DC:O5'	2.13	0.46
11:AB:3806:DG:H2''	11:AB:3807:DC:O5'	2.13	0.46
11:AB:4054:DA:C2'	11:AB:4055:DT:H72	2.46	0.46
11:AB:4823:DG:H1'	11:AB:4824:DA:H5'	1.98	0.46
11:AB:4928:DG:H2''	11:AB:4929:DC:O5'	2.13	0.46
11:AB:4996:DG:H2''	11:AB:4997:DC:O5'	2.13	0.46
11:AB:4998:DG:H2''	11:AB:4999:DC:O5'	2.13	0.46
11:AB:5798:DG:H2''	11:AB:5799:DC:O5'	2.13	0.46
11:AB:6064:DG:H2''	11:AB:6065:DC:O5'	2.13	0.46
11:AB:6090:DG:H2''	11:AB:6091:DC:O5'	2.13	0.46
11:AB:6406:DG:H2''	11:AB:6407:DC:O5'	2.13	0.46
11:AB:6933:DG:H2''	11:AB:6934:DC:O5'	2.13	0.46
11:AB:6969:DG:H1'	11:AB:6970:DA:H5'	1.98	0.46
11:AB:7025:DG:H1'	11:AB:7026:DA:H5'	1.98	0.46
11:AB:7241:DG:H2''	11:AB:7242:DC:O5'	2.13	0.46
18:B5:13:DG:H1'	18:B5:14:DA:H5'	1.97	0.46
29:C5:33:DG:H1'	29:C5:34:DA:H5'	1.98	0.46
31:C7:30:DG:H2''	31:C7:31:DC:O5'	2.13	0.46
39:D3:26:DG:H1'	39:D3:27:DA:H5'	1.98	0.46
43:D8:35:DG:H2''	117:K5:47:DC:O5'	2.13	0.46
48:E1:32:DC:H2'	48:E1:33:DT:H72	1.97	0.46
94:I3:47:DG:H2''	94:I3:48:DC:O5'	2.13	0.46
98:I8:25:DG:H2''	98:I8:26:DC:O5'	2.13	0.46
106:J5:34:DG:H1'	106:J5:35:DA:H5'	1.98	0.46
115:K2:20:DG:H2''	115:K2:21:DC:O5'	2.13	0.46
120:K8:10:DG:H1'	120:K8:11:DA:H5'	1.98	0.46
125:L1:50:DG:H1'	125:L1:51:DA:H5'	1.98	0.46
126:L2:45:DG:H2''	126:L2:46:DC:O5'	2.13	0.46
130:L7:34:DG:H1'	130:L7:35:DA:H5'	1.98	0.46
134:LC:12:DG:H1'	134:LC:13:DA:H5'	1.98	0.46
148:N5:30:DG:H1'	148:N5:31:DA:H5'	1.97	0.46
149:N6:2:DG:H2''	149:N6:3:DC:O5'	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
152:N9:26:DG:H2''	152:N9:27:DC:O5'	2.13	0.46
200:SA:8:DG:H1'	200:SA:9:DA:H5'	1.97	0.46
220:UD:9:DG:H2''	220:UD:10:DC:O5'	2.13	0.46
221:V2:12:DG:H1'	221:V2:13:DA:H5'	1.98	0.46
227:VA:20:DG:H2''	227:VA:21:DC:O5'	2.13	0.46
10:AA:11:DG:H2''	10:AA:12:DC:O5'	2.13	0.46
11:AB:22:DG:H1'	11:AB:23:DA:H5'	1.98	0.46
11:AB:118:DC:H2'	11:AB:119:DT:H72	1.97	0.46
11:AB:984:DG:H1'	11:AB:985:DA:H5'	1.98	0.46
11:AB:1032:DG:H1'	11:AB:1033:DA:H5'	1.98	0.46
11:AB:1069:DA:C2'	11:AB:1070:DT:H72	2.46	0.46
11:AB:1494:DG:H2''	11:AB:1495:DC:O5'	2.13	0.46
11:AB:1655:DC:H2'	11:AB:1656:DT:H72	1.97	0.46
11:AB:2084:DG:H1'	11:AB:2085:DA:H5'	1.98	0.46
11:AB:2218:DG:H1'	11:AB:2219:DA:H5'	1.97	0.46
11:AB:2398:DC:H2'	11:AB:2399:DT:H72	1.97	0.46
11:AB:2550:DG:H2''	11:AB:2551:DC:O5'	2.13	0.46
11:AB:2674:DG:H2''	11:AB:2675:DC:O5'	2.13	0.46
11:AB:3034:DG:H1'	11:AB:3035:DA:H5'	1.98	0.46
11:AB:3100:DG:H1'	11:AB:3101:DA:H5'	1.97	0.46
11:AB:3293:DG:H2''	11:AB:3294:DC:O5'	2.13	0.46
11:AB:3691:DG:H1'	11:AB:3692:DA:H5'	1.98	0.46
11:AB:4013:DC:H2'	11:AB:4014:DT:H72	1.97	0.46
11:AB:4216:DG:H2''	11:AB:4217:DC:O5'	2.13	0.46
11:AB:4625:DG:H2''	11:AB:4626:DC:O5'	2.13	0.46
11:AB:5081:DG:H1'	11:AB:5082:DA:H5'	1.98	0.46
11:AB:5194:DG:H1'	11:AB:5195:DA:H5'	1.98	0.46
11:AB:5249:DG:H1'	11:AB:5250:DA:H5'	1.98	0.46
11:AB:5831:DC:H2'	11:AB:5832:DT:H72	1.97	0.46
11:AB:5840:DG:H1'	11:AB:5841:DA:H5'	1.98	0.46
11:AB:5884:DG:H2''	11:AB:5885:DC:O5'	2.13	0.46
11:AB:5946:DG:H2''	11:AB:5947:DC:O5'	2.13	0.46
11:AB:5973:DG:H1'	11:AB:5974:DA:H5'	1.98	0.46
11:AB:6768:DG:H1'	11:AB:6769:DA:H5'	1.98	0.46
11:AB:7123:DG:H1'	11:AB:7124:DA:H5'	1.98	0.46
13:AD:34:DC:H2'	13:AD:35:DT:H72	1.97	0.46
29:C5:35:DG:H1'	29:C5:36:DA:H5'	1.98	0.46
39:D3:32:DG:H2''	39:D3:33:DC:O5'	2.13	0.46
40:D5:11:DA:C2'	40:D5:12:DT:H72	2.46	0.46
43:D8:25:DG:H2''	43:D8:26:DC:O5'	2.13	0.46
56:EA:8:DG:H1'	56:EA:9:DA:H5'	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:F3:13:DG:H1'	61:F3:14:DA:H5'	1.98	0.46
73:G5:8:DG:H1'	73:G5:9:DA:H5'	1.98	0.46
76:G8:4:DG:H2''	109:J8:15:DC:O5'	2.13	0.46
79:GC:14:DG:H2''	98:I8:31:DC:O5'	2.13	0.46
93:I2:15:DG:H1'	93:I2:16:DA:H5'	1.98	0.46
93:I2:25:DG:H2''	93:I2:26:DC:O5'	2.13	0.46
109:J8:49:DG:H1'	109:J8:50:DA:H5'	1.97	0.46
115:K2:25:DA:C2'	115:K2:26:DT:H72	2.46	0.46
126:L2:28:DC:O5'	224:V7:16:DG:H2''	2.13	0.46
126:L2:48:DG:H1'	126:L2:49:DA:H5'	1.97	0.46
130:L7:6:DG:H1'	130:L7:7:DA:H5'	1.98	0.46
153:NA:22:DG:H1'	153:NA:23:DA:H5'	1.98	0.46
164:OC:11:DG:H2''	164:OC:12:DC:O5'	2.13	0.46
166:P2:9:DG:H2''	166:P2:10:DC:O5'	2.13	0.46
168:P5:3:DG:H2''	168:P5:4:DC:O5'	2.13	0.46
175:PD:21:DG:H1'	175:PD:22:DA:H5'	1.98	0.46
187:R5:27:DG:H1'	187:R5:28:DA:H5'	1.98	0.46
187:R5:39:DC:H2'	187:R5:40:DT:H72	1.97	0.46
191:RA:7:DG:H1'	191:RA:8:DA:H5'	1.98	0.46
195:S3:11:DC:H2'	195:S3:12:DT:H72	1.97	0.46
3:A3:1:DT:H72	50:E3:19:DA:C2'	2.46	0.46
6:A6:9:DG:H2''	6:A6:10:DC:O5'	2.13	0.46
11:AB:216:DG:H1'	11:AB:217:DA:H5'	1.98	0.46
11:AB:238:DA:C2'	11:AB:239:DT:H72	2.46	0.46
11:AB:508:DA:C2'	11:AB:509:DT:H72	2.46	0.46
11:AB:558:DG:H2''	11:AB:559:DC:O5'	2.13	0.46
11:AB:655:DA:C2'	11:AB:656:DT:H72	2.46	0.46
11:AB:764:DC:H2'	11:AB:765:DT:H72	1.97	0.46
11:AB:1146:DG:H2''	11:AB:1147:DC:O5'	2.13	0.46
11:AB:1323:DA:C2'	11:AB:1324:DT:H72	2.46	0.46
11:AB:1867:DC:H2'	11:AB:1868:DT:H72	1.97	0.46
11:AB:1999:DA:C2'	11:AB:2000:DT:H72	2.46	0.46
11:AB:2119:DG:H1'	11:AB:2120:DA:H5'	1.98	0.46
11:AB:2120:DA:C2'	11:AB:2121:DT:H72	2.46	0.46
11:AB:2200:DA:C2'	11:AB:2201:DT:H72	2.46	0.46
11:AB:2256:DA:C2'	11:AB:2257:DT:H72	2.46	0.46
11:AB:2326:DG:H2''	11:AB:2327:DC:O5'	2.13	0.46
11:AB:2407:DA:C2'	11:AB:2408:DT:H72	2.46	0.46
11:AB:2428:DA:C2'	11:AB:2429:DT:H72	2.46	0.46
11:AB:2506:DA:C2'	11:AB:2507:DT:H72	2.46	0.46
11:AB:2751:DA:C2'	11:AB:2752:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2913:DA:C2'	11:AB:2914:DT:H72	2.46	0.46
11:AB:3133:DG:H1'	11:AB:3134:DA:H5'	1.98	0.46
11:AB:3473:DG:H2''	11:AB:3474:DC:O5'	2.13	0.46
11:AB:3566:DG:H2''	11:AB:3567:DC:O5'	2.13	0.46
11:AB:3925:DG:H1'	11:AB:3926:DA:H5'	1.97	0.46
11:AB:4032:DA:C2'	11:AB:4033:DT:H72	2.46	0.46
11:AB:4485:DG:H1'	11:AB:4486:DA:H5'	1.97	0.46
11:AB:5234:DG:H1'	11:AB:5235:DA:H5'	1.98	0.46
11:AB:5325:DG:H1'	11:AB:5326:DA:H5'	1.98	0.46
11:AB:5452:DA:C2'	11:AB:5453:DT:H72	2.46	0.46
11:AB:5712:DA:C2'	11:AB:5713:DT:H72	2.46	0.46
11:AB:5916:DA:C2'	11:AB:5917:DT:H72	2.45	0.46
11:AB:6688:DC:H2'	11:AB:6689:DT:H72	1.97	0.46
14:B1:15:DA:H5'	106:J5:21:DG:H1'	1.98	0.46
17:B4:14:DG:H1'	17:B4:15:DA:H5'	1.98	0.46
29:C5:36:DA:C2'	29:C5:37:DT:H72	2.46	0.46
32:C8:28:DG:H2''	32:C8:29:DC:O5'	2.13	0.46
36:CD:15:DA:H5'	156:O2:42:DG:H1'	1.98	0.46
44:D9:18:DG:H2''	44:D9:19:DC:O5'	2.13	0.46
49:E2:24:DC:O5'	222:V3:25:DG:H2''	2.13	0.46
73:G5:9:DA:C2'	73:G5:10:DT:H72	2.46	0.46
73:G5:14:DG:H1'	117:K5:33:DA:H5'	1.98	0.46
76:G8:12:DG:H1'	76:G8:13:DA:H5'	1.98	0.46
88:H9:10:DG:H2''	133:LA:18:DC:O5'	2.13	0.46
95:I5:16:DA:C2'	95:I5:17:DT:H72	2.46	0.46
107:J6:30:DA:C2'	107:J6:31:DT:H72	2.46	0.46
109:J8:29:DG:H1'	109:J8:30:DA:H5'	1.98	0.46
114:K1:12:DA:C2'	114:K1:13:DT:H72	2.46	0.46
122:KA:46:DC:H2'	122:KA:47:DT:H72	1.97	0.46
130:L7:56:DG:H1'	130:L7:57:DA:H5'	1.98	0.46
131:L8:11:DG:H1'	131:L8:12:DA:H5'	1.98	0.46
142:M9:11:DA:C2'	142:M9:12:DT:H72	2.46	0.46
147:N3:29:DC:O5'	204:T3:14:DG:H2''	2.13	0.46
152:N9:1:DT:H72	191:RA:31:DA:C2'	2.46	0.46
152:N9:16:DA:C2'	152:N9:17:DT:H72	2.46	0.46
154:NC:4:DG:H1'	154:NC:5:DA:H5'	1.98	0.46
154:NC:24:DG:H2''	192:RC:21:DC:O5'	2.13	0.46
156:O2:11:DG:H2''	156:O2:12:DC:O5'	2.13	0.46
159:O6:20:DG:H1'	159:O6:21:DA:H5'	1.97	0.46
168:P5:7:DG:H1'	168:P5:8:DA:H5'	1.98	0.46
180:Q8:24:DG:H1'	180:Q8:25:DA:H5'	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
182:QA:20:DG:H2''	182:QA:21:DC:O5'	2.13	0.46
197:S7:21:DC:H2'	197:S7:22:DT:H72	1.97	0.46
215:U7:11:DG:H2''	215:U7:12:DC:O5'	2.13	0.46
225:V8:11:DG:H1'	225:V8:12:DA:H5'	1.98	0.46
1:A1:37:DA:C2'	1:A1:38:DT:H72	2.46	0.46
2:A2:9:DA:C2'	2:A2:10:DT:H72	2.46	0.46
4:A4:19:DA:C2'	4:A4:20:DT:H72	2.46	0.46
7:A7:12:DA:C2'	7:A7:13:DT:H72	2.46	0.46
11:AB:12:DA:C2'	11:AB:13:DT:H72	2.46	0.46
11:AB:158:DA:C2'	11:AB:159:DT:H72	2.46	0.46
11:AB:351:DG:H1'	11:AB:352:DA:H5'	1.98	0.46
11:AB:642:DG:H2''	11:AB:643:DC:O5'	2.13	0.46
11:AB:733:DA:C2'	11:AB:734:DT:H72	2.46	0.46
11:AB:746:DG:H1'	11:AB:747:DA:H5'	1.98	0.46
11:AB:807:DG:H1'	11:AB:808:DA:H5'	1.98	0.46
11:AB:811:DA:C2'	11:AB:812:DT:H72	2.46	0.46
11:AB:828:DG:H1'	11:AB:829:DA:H5'	1.98	0.46
11:AB:921:DG:H1'	11:AB:922:DA:H5'	1.97	0.46
11:AB:1084:DA:C2'	11:AB:1085:DT:H72	2.46	0.46
11:AB:1194:DG:H1'	11:AB:1195:DA:H5'	1.98	0.46
11:AB:1308:DA:C2'	11:AB:1309:DT:H72	2.46	0.46
11:AB:1401:DA:C2'	11:AB:1402:DT:H72	2.46	0.46
11:AB:1583:DA:C2'	11:AB:6122:DT:H72	2.46	0.46
11:AB:1757:DG:H1'	11:AB:1758:DA:H5'	1.98	0.46
11:AB:1963:DA:C2'	11:AB:1964:DT:H72	2.46	0.46
11:AB:2092:DA:C2'	11:AB:2093:DT:H72	2.46	0.46
11:AB:2350:DA:C2'	11:AB:2351:DT:H72	2.46	0.46
11:AB:2546:DA:C2'	11:AB:2547:DT:H72	2.46	0.46
11:AB:2772:DA:C2'	11:AB:2773:DT:H72	2.46	0.46
11:AB:3007:DA:C2'	11:AB:3008:DT:H72	2.46	0.46
11:AB:3074:DA:C2'	11:AB:3075:DT:H72	2.46	0.46
11:AB:3137:DA:C2'	11:AB:3138:DT:H72	2.46	0.46
11:AB:3175:DG:H1'	11:AB:3176:DA:H5'	1.98	0.46
11:AB:3176:DA:C2'	11:AB:3177:DT:H72	2.46	0.46
11:AB:3220:DG:H1'	11:AB:3221:DA:H5'	1.98	0.46
11:AB:3326:DA:C2'	11:AB:3327:DT:H72	2.46	0.46
11:AB:3328:DA:C2'	11:AB:3329:DT:H72	2.46	0.46
11:AB:3348:DA:C2'	11:AB:3349:DT:H72	2.46	0.46
11:AB:3438:DA:C2'	11:AB:3439:DT:H72	2.46	0.46
11:AB:3456:DG:H2''	11:AB:3457:DC:O5'	2.13	0.46
11:AB:3482:DA:C2'	11:AB:3483:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3545:DA:C2'	11:AB:3546:DT:H72	2.46	0.46
11:AB:3570:DA:C2'	11:AB:3571:DT:H72	2.46	0.46
11:AB:3785:DA:C2'	11:AB:3786:DT:H72	2.46	0.46
11:AB:3787:DA:C2'	11:AB:3788:DT:H72	2.46	0.46
11:AB:3857:DA:C2'	11:AB:3858:DT:H72	2.46	0.46
11:AB:4234:DA:C2'	11:AB:4235:DT:H72	2.46	0.46
11:AB:4329:DG:H1'	11:AB:4330:DA:H5'	1.97	0.46
11:AB:4403:DA:C2'	11:AB:4404:DT:H72	2.46	0.46
11:AB:4446:DA:C2'	11:AB:4447:DT:H72	2.46	0.46
11:AB:4480:DG:H2''	11:AB:4481:DC:O5'	2.13	0.46
11:AB:4612:DA:C2'	11:AB:4613:DT:H72	2.46	0.46
11:AB:4675:DA:C2'	11:AB:4676:DT:H72	2.46	0.46
11:AB:4761:DA:C2'	11:AB:4762:DT:H72	2.46	0.46
11:AB:4767:DA:C2'	11:AB:4768:DT:H72	2.46	0.46
11:AB:4803:DA:C2'	11:AB:4804:DT:H72	2.46	0.46
11:AB:4902:DG:H2''	11:AB:4903:DC:O5'	2.13	0.46
11:AB:4932:DA:C2'	11:AB:4933:DT:H72	2.46	0.46
11:AB:4964:DG:H1'	11:AB:4965:DA:H5'	1.98	0.46
11:AB:5017:DG:H2''	11:AB:5018:DC:O5'	2.13	0.46
11:AB:5084:DG:H2''	11:AB:5085:DC:O5'	2.13	0.46
11:AB:5221:DA:C2'	11:AB:5222:DT:H72	2.46	0.46
11:AB:5627:DA:C2'	11:AB:5628:DT:H72	2.46	0.46
11:AB:5689:DA:C2'	11:AB:5690:DT:H72	2.46	0.46
11:AB:5866:DG:H2''	11:AB:5867:DC:O5'	2.13	0.46
11:AB:5970:DA:C2'	11:AB:5971:DT:H72	2.46	0.46
11:AB:6022:DG:H1'	11:AB:6023:DA:H5'	1.98	0.46
11:AB:6060:DA:C2'	11:AB:6061:DT:H72	2.46	0.46
11:AB:6088:DG:H1'	11:AB:6089:DA:H5'	1.98	0.46
11:AB:6093:DA:C2'	11:AB:6094:DT:H72	2.46	0.46
11:AB:6173:DA:C2'	11:AB:6174:DT:H72	2.46	0.46
11:AB:6316:DA:C2'	11:AB:6317:DT:H72	2.46	0.46
11:AB:6501:DA:C2'	11:AB:6502:DT:H72	2.46	0.46
11:AB:6523:DA:C2'	11:AB:6524:DT:H72	2.46	0.46
11:AB:6560:DA:C2'	11:AB:6561:DT:H72	2.46	0.46
11:AB:6686:DA:C2'	11:AB:6687:DT:H72	2.46	0.46
11:AB:6959:DA:C2'	11:AB:6960:DT:H72	2.46	0.46
11:AB:7203:DA:C2'	11:AB:7204:DT:H72	2.46	0.46
11:AB:7231:DG:H2''	11:AB:7232:DC:O5'	2.13	0.46
12:AC:11:DA:C2'	12:AC:12:DT:H72	2.46	0.46
15:B2:11:DA:C2'	15:B2:12:DT:H72	2.46	0.46
25:BD:11:DA:C2'	25:BD:12:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:C1:1:DC:O5'	73:G5:24:DG:H2''	2.14	0.46
28:C3:17:DA:H5'	204:T3:35:DG:H1'	1.98	0.46
29:C5:29:DA:C2'	29:C5:30:DT:H72	2.46	0.46
41:D6:1:DG:H1'	41:D6:2:DA:H5'	1.98	0.46
41:D6:30:DA:C2'	41:D6:31:DT:H72	2.46	0.46
41:D6:35:DG:H1'	181:Q9:26:DA:H5'	1.98	0.46
44:D9:5:DA:C2'	44:D9:6:DT:H72	2.46	0.46
52:E6:8:DA:H5'	206:T7:38:DG:H1'	1.98	0.46
54:E8:6:DC:H2'	54:E8:7:DT:H72	1.97	0.46
55:E9:8:DA:C2'	55:E9:9:DT:H72	2.46	0.46
55:E9:31:DA:C2'	55:E9:32:DT:H72	2.46	0.46
58:ED:25:DA:C2'	58:ED:26:DT:H72	2.46	0.46
58:ED:34:DA:C2'	58:ED:35:DT:H72	2.46	0.46
60:F2:17:DA:C2'	60:F2:18:DT:H72	2.46	0.46
62:F5:35:DA:C2'	62:F5:36:DT:H72	2.46	0.46
62:F5:37:DA:C2'	62:F5:38:DT:H72	2.46	0.46
63:F6:6:DG:H1'	63:F6:7:DA:H5'	1.98	0.46
67:FA:9:DA:C2'	67:FA:10:DT:H72	2.46	0.46
74:G6:27:DA:C2'	74:G6:28:DT:H72	2.46	0.46
75:G7:19:DC:O5'	197:S7:10:DG:H2''	2.13	0.46
82:H2:14:DG:H1'	82:H2:15:DA:H5'	1.98	0.46
85:H6:1:DA:H5'	160:O7:26:DG:H1'	1.98	0.46
86:H7:15:DA:C2'	86:H7:16:DT:H72	2.46	0.46
88:H9:8:DA:C2'	88:H9:9:DT:H72	2.46	0.46
89:HA:30:DA:C2'	89:HA:31:DT:H72	2.46	0.46
91:HD:15:DG:H1'	91:HD:16:DA:H5'	1.98	0.46
92:I1:15:DG:H1'	92:I1:16:DA:H5'	1.97	0.46
94:I3:37:DG:H2''	94:I3:38:DC:O5'	2.13	0.46
105:J3:11:DA:C2'	105:J3:12:DT:H72	2.46	0.46
109:J8:4:DA:C2'	109:J8:5:DT:H72	2.46	0.46
109:J8:20:DA:C2'	109:J8:21:DT:H72	2.46	0.46
110:J9:20:DG:H2''	110:J9:21:DC:O5'	2.13	0.46
112:JC:4:DG:H2''	112:JC:5:DC:O5'	2.13	0.46
112:JC:16:DA:C2'	112:JC:17:DT:H72	2.46	0.46
112:JC:25:DA:C2'	112:JC:26:DT:H72	2.46	0.46
113:JD:14:DG:H1'	132:L9:15:DA:H5'	1.98	0.46
119:K7:5:DA:C2'	119:K7:6:DT:H72	2.46	0.46
119:K7:32:DG:H1'	167:P3:11:DA:H5'	1.98	0.46
121:K9:15:DA:C2'	121:K9:16:DT:H72	2.46	0.46
122:KA:19:DA:C2'	122:KA:20:DT:H72	2.46	0.46
128:L5:12:DA:C2'	128:L5:13:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
130:L7:2:DA:C2'	130:L7:3:DT:H72	2.46	0.46
130:L7:12:DA:C2'	130:L7:13:DT:H72	2.46	0.46
130:L7:23:DA:C2'	130:L7:24:DT:H72	2.46	0.46
130:L7:35:DA:C2'	177:Q3:21:DT:H72	2.46	0.46
130:L7:36:DG:H1'	130:L7:37:DA:H5'	1.98	0.46
130:L7:48:DA:C2'	130:L7:49:DT:H72	2.46	0.46
135:LD:15:DA:C2'	135:LD:16:DT:H72	2.46	0.46
136:M2:9:DA:C2'	136:M2:10:DT:H72	2.46	0.46
141:M8:15:DG:H1'	141:M8:16:DA:H5'	1.98	0.46
145:MD:13:DG:H2''	145:MD:14:DC:O5'	2.13	0.46
149:N6:8:DA:C2'	149:N6:9:DT:H72	2.46	0.46
158:O5:29:DA:C2'	158:O5:30:DT:H72	2.46	0.46
160:O7:49:DA:C2'	160:O7:50:DT:H72	2.46	0.46
165:OD:22:DG:H1'	165:OD:23:DA:H5'	1.98	0.46
167:P3:5:DA:C2'	167:P3:6:DT:H72	2.46	0.46
167:P3:9:DG:H2''	167:P3:10:DC:O5'	2.13	0.46
169:P6:7:DG:H1'	169:P6:8:DA:H5'	1.98	0.46
173:PA:31:DA:C2'	173:PA:32:DT:H72	2.46	0.46
184:QD:9:DA:C2'	184:QD:10:DT:H72	2.46	0.46
187:R5:36:DA:H5'	223:V5:13:DG:H1'	1.97	0.46
188:R7:18:DA:C2'	188:R7:19:DT:H72	2.46	0.46
188:R7:29:DG:H2''	188:R7:30:DC:O5'	2.13	0.46
189:R8:24:DA:C2'	189:R8:25:DT:H72	2.46	0.46
192:RC:25:DA:C2'	192:RC:26:DT:H72	2.46	0.46
193:RD:11:DA:C2'	193:RD:12:DT:H72	2.46	0.46
198:S8:12:DA:C2'	198:S8:13:DT:H72	2.46	0.46
198:S8:42:DA:C2'	198:S8:43:DT:H72	2.46	0.46
199:S9:3:DG:H1'	199:S9:4:DA:H5'	1.98	0.46
199:S9:22:DG:H1'	199:S9:23:DA:H5'	1.98	0.46
200:SA:22:DA:C2'	200:SA:23:DT:H72	2.46	0.46
205:T5:22:DG:H1'	205:T5:23:DA:H5'	1.98	0.46
209:TA:31:DG:H1'	209:TA:32:DA:H5'	1.98	0.46
210:TC:24:DG:H1'	210:TC:25:DA:H5'	1.98	0.46
217:U9:25:DA:C2'	217:U9:26:DT:H72	2.46	0.46
225:V8:15:DA:C2'	225:V8:16:DT:H72	2.46	0.46
228:VC:26:DA:C2'	228:VC:27:DT:H72	2.46	0.46
236:X5:22:DA:C2'	236:X5:23:DT:H72	2.46	0.46
1:A1:1:DT:H72	70:G1:19:DA:C2'	2.46	0.46
3:A3:15:DA:C2'	3:A3:16:DT:H72	2.46	0.46
5:A5:10:DA:C2'	5:A5:11:DT:H72	2.46	0.46
7:A7:18:DA:C2'	7:A7:19:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:15:DA:C2'	10:AA:16:DT:H72	2.46	0.46
11:AB:141:DA:C2'	11:AB:142:DT:H72	2.46	0.46
11:AB:233:DA:C2'	11:AB:234:DT:H72	2.46	0.46
11:AB:243:DG:H1'	11:AB:244:DA:H5'	1.98	0.46
11:AB:247:DA:C2'	11:AB:248:DT:H72	2.46	0.46
11:AB:598:DA:C2'	11:AB:599:DT:H72	2.46	0.46
11:AB:606:DA:C2'	11:AB:607:DT:H72	2.46	0.46
11:AB:787:DA:C2'	11:AB:788:DT:H72	2.46	0.46
11:AB:979:DA:C2'	11:AB:980:DT:H72	2.46	0.46
11:AB:999:DG:H2''	11:AB:1000:DC:O5'	2.13	0.46
11:AB:1050:DG:H1'	11:AB:1051:DA:H5'	1.98	0.46
11:AB:1098:DA:C2'	11:AB:1099:DT:H72	2.46	0.46
11:AB:1232:DA:C2'	11:AB:1233:DT:H72	2.46	0.46
11:AB:1253:DA:C2'	11:AB:1254:DT:H72	2.46	0.46
11:AB:1331:DA:C2'	11:AB:1332:DT:H72	2.46	0.46
11:AB:1358:DA:C2'	11:AB:1359:DT:H72	2.46	0.46
11:AB:1378:DA:C2'	11:AB:1379:DT:H72	2.46	0.46
11:AB:1538:DA:C2'	11:AB:1539:DT:H72	2.46	0.46
11:AB:1568:DA:C2'	11:AB:1569:DT:H72	2.46	0.46
11:AB:1736:DA:C2'	11:AB:1737:DT:H72	2.46	0.46
11:AB:1777:DA:C2'	11:AB:1778:DT:H72	2.46	0.46
11:AB:1956:DA:C2'	11:AB:1957:DT:H72	2.46	0.46
11:AB:2088:DA:C2'	11:AB:2089:DT:H72	2.46	0.46
11:AB:2127:DA:C2'	11:AB:2128:DT:H72	2.46	0.46
11:AB:2368:DA:C2'	11:AB:2369:DT:H72	2.46	0.46
11:AB:2375:DA:C2'	11:AB:2376:DT:H72	2.46	0.46
11:AB:2380:DA:C2'	11:AB:2381:DT:H72	2.46	0.46
11:AB:2410:DA:C2'	11:AB:2411:DT:H72	2.46	0.46
11:AB:2492:DA:C2'	11:AB:2493:DT:H72	2.46	0.46
11:AB:2524:DG:H2''	11:AB:2525:DC:O5'	2.13	0.46
11:AB:2566:DA:C2'	11:AB:2567:DT:H72	2.46	0.46
11:AB:2841:DA:C2'	11:AB:2842:DT:H72	2.46	0.46
11:AB:3037:DA:C2'	11:AB:3038:DT:H72	2.46	0.46
11:AB:3058:DA:C2'	11:AB:3059:DT:H72	2.46	0.46
11:AB:3061:DA:C2'	11:AB:3062:DT:H72	2.46	0.46
11:AB:3134:DA:C2'	11:AB:3135:DT:H72	2.46	0.46
11:AB:3179:DA:C2'	11:AB:3180:DT:H72	2.46	0.46
11:AB:3240:DA:C2'	11:AB:3241:DT:H72	2.46	0.46
11:AB:3257:DA:C2'	11:AB:3258:DT:H72	2.46	0.46
11:AB:3286:DA:C2'	11:AB:3287:DT:H72	2.46	0.46
11:AB:3387:DG:H1'	11:AB:3388:DA:H5'	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3701:DA:C2'	11:AB:3702:DT:H72	2.46	0.46
11:AB:3723:DG:H1'	11:AB:3724:DA:H5'	1.97	0.46
11:AB:3772:DA:C2'	11:AB:3773:DT:H72	2.46	0.46
11:AB:3893:DA:C2'	11:AB:3894:DT:H72	2.46	0.46
11:AB:3900:DG:H1'	11:AB:3901:DA:H5'	1.98	0.46
11:AB:3909:DA:C2'	11:AB:4414:DT:H72	2.46	0.46
11:AB:4078:DA:C2'	11:AB:4079:DT:H72	2.46	0.46
11:AB:4281:DA:C2'	11:AB:4282:DT:H72	2.46	0.46
11:AB:4423:DA:C2'	11:AB:4424:DT:H72	2.46	0.46
11:AB:4616:DA:C2'	11:AB:4617:DT:H72	2.46	0.46
11:AB:4785:DC:H2'	11:AB:4786:DT:H72	1.97	0.46
11:AB:4837:DG:H1'	11:AB:4838:DA:H5'	1.98	0.46
11:AB:4899:DC:H2'	11:AB:4900:DT:H72	1.97	0.46
11:AB:4947:DG:H2''	11:AB:4948:DC:O5'	2.13	0.46
11:AB:5007:DA:C2'	11:AB:5008:DT:H72	2.46	0.46
11:AB:5042:DG:H1'	11:AB:5043:DA:H5'	1.98	0.46
11:AB:5138:DA:C2'	11:AB:5139:DT:H72	2.46	0.46
11:AB:5162:DA:C2'	11:AB:5163:DT:H72	2.46	0.46
11:AB:5196:DA:C2'	11:AB:5197:DT:H72	2.46	0.46
11:AB:5267:DA:C2'	11:AB:5268:DT:H72	2.46	0.46
11:AB:5301:DG:H2''	11:AB:5302:DC:O5'	2.13	0.46
11:AB:5391:DG:H2''	11:AB:5392:DC:O5'	2.13	0.46
11:AB:5399:DG:H1'	11:AB:5400:DA:H5'	1.98	0.46
11:AB:5493:DG:H1'	11:AB:5494:DA:H5'	1.98	0.46
11:AB:5567:DA:C2'	11:AB:5568:DT:H72	2.46	0.46
11:AB:5613:DA:C2'	11:AB:5614:DT:H72	2.46	0.46
11:AB:5650:DA:C2'	11:AB:5651:DT:H72	2.46	0.46
11:AB:5793:DG:H2''	11:AB:5794:DC:O5'	2.13	0.46
11:AB:6563:DA:C2'	11:AB:6564:DT:H72	2.46	0.46
11:AB:6623:DA:C2'	11:AB:6624:DT:H72	2.46	0.46
11:AB:6643:DA:C2'	11:AB:6644:DT:H72	2.46	0.46
11:AB:6656:DA:C2'	11:AB:6657:DT:H72	2.46	0.46
11:AB:6739:DA:C2'	11:AB:6740:DT:H72	2.46	0.46
11:AB:6748:DA:C2'	11:AB:6749:DT:H72	2.46	0.46
11:AB:7145:DG:H2''	11:AB:7146:DC:O5'	2.13	0.46
13:AD:7:DA:C2'	13:AD:8:DT:H72	2.46	0.46
14:B1:27:DG:H1'	14:B1:28:DA:H5'	1.98	0.46
18:B5:29:DG:H1'	18:B5:30:DA:H5'	1.98	0.46
19:B6:3:DA:C2'	19:B6:4:DT:H72	2.46	0.46
21:B8:18:DA:C2'	21:B8:19:DT:H72	2.46	0.46
21:B8:21:DA:C2'	21:B8:22:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:C3:15:DG:H1'	28:C3:16:DA:H5'	1.98	0.46
30:C6:9:DA:C2'	30:C6:10:DT:H72	2.46	0.46
30:C6:29:DC:O5'	73:G5:7:DG:H2''	2.13	0.46
38:D2:11:DG:H2''	38:D2:12:DC:O5'	2.13	0.46
40:D5:14:DA:C2'	40:D5:15:DT:H72	2.46	0.46
43:D8:13:DA:C2'	43:D8:14:DT:H72	2.46	0.46
43:D8:41:DA:C2'	43:D8:42:DT:H72	2.46	0.46
46:DC:6:DG:H1'	46:DC:7:DA:H5'	1.98	0.46
49:E2:14:DA:C2'	49:E2:15:DT:H72	2.46	0.46
50:E3:10:DA:C2'	50:E3:11:DT:H72	2.46	0.46
51:E5:30:DA:C2'	51:E5:31:DT:H72	2.46	0.46
55:E9:35:DA:C2'	55:E9:36:DT:H72	2.46	0.46
55:E9:42:DA:H5'	81:H1:13:DG:H1'	1.98	0.46
60:F2:15:DA:C2'	60:F2:16:DT:H72	2.46	0.46
60:F2:25:DG:H1'	130:L7:15:DA:H5'	1.97	0.46
61:F3:6:DG:H2''	61:F3:7:DC:O5'	2.13	0.46
62:F5:5:DA:C2'	62:F5:6:DT:H72	2.46	0.46
62:F5:41:DA:C2'	62:F5:42:DT:H72	2.46	0.46
66:F9:5:DG:H1'	66:F9:6:DA:H5'	1.98	0.46
68:FC:8:DA:C2'	68:FC:9:DT:H72	2.46	0.46
81:H1:20:DA:C2'	81:H1:21:DT:H72	2.46	0.46
84:H5:18:DA:C2'	84:H5:19:DT:H72	2.46	0.46
100:IA:19:DA:C2'	100:IA:20:DT:H72	2.46	0.46
100:IA:23:DG:H1'	209:TA:26:DA:H5'	1.98	0.46
104:J2:13:DG:H1'	104:J2:14:DA:H5'	1.98	0.46
107:J6:5:DA:C2'	107:J6:6:DT:H72	2.46	0.46
107:J6:10:DA:C2'	107:J6:11:DT:H72	2.46	0.46
107:J6:15:DG:H1'	107:J6:16:DA:H5'	1.98	0.46
108:J7:23:DA:C2'	108:J7:24:DT:H72	2.46	0.46
109:J8:1:DA:H5'	120:K8:4:DG:H1'	1.98	0.46
109:J8:16:DA:C2'	109:J8:17:DT:H72	2.46	0.46
119:K7:23:DA:C2'	119:K7:24:DT:H72	2.46	0.46
121:K9:27:DG:H1'	121:K9:28:DA:H5'	1.98	0.46
122:KA:16:DA:C2'	122:KA:17:DT:H72	2.46	0.46
123:KC:26:DA:C2'	123:KC:27:DT:H72	2.46	0.46
125:L1:16:DA:C2'	125:L1:17:DT:H72	2.46	0.46
125:L1:18:DA:C2'	125:L1:19:DT:H72	2.46	0.46
129:L6:18:DA:C2'	129:L6:19:DT:H72	2.46	0.46
130:L7:16:DA:C2'	130:L7:17:DT:H72	2.46	0.46
138:M5:25:DA:C2'	138:M5:26:DT:H72	2.46	0.46
140:M7:20:DA:C2'	140:M7:21:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
143:MA:14:DG:H2''	143:MA:15:DC:O5'	2.13	0.46
146:N2:10:DA:C2'	146:N2:11:DT:H72	2.46	0.46
149:N6:40:DA:C2'	149:N6:41:DT:H72	2.46	0.46
152:N9:49:DA:C2'	152:N9:50:DT:H72	2.46	0.46
155:ND:16:DA:C2'	155:ND:17:DT:H72	2.46	0.46
160:O7:48:DG:H1'	160:O7:49:DA:H5'	1.98	0.46
161:O8:21:DA:C2'	161:O8:22:DT:H72	2.46	0.46
166:P2:25:DA:C2'	166:P2:26:DT:H72	2.46	0.46
175:PD:5:DG:H2''	175:PD:6:DC:O5'	2.13	0.46
176:Q2:19:DA:C2'	176:Q2:20:DT:H72	2.46	0.46
178:Q5:15:DG:H1'	178:Q5:16:DA:H5'	1.97	0.46
178:Q5:17:DA:C2'	178:Q5:18:DT:H72	2.46	0.46
179:Q7:16:DA:C2'	179:Q7:17:DT:H72	2.46	0.46
181:Q9:13:DA:C2'	181:Q9:14:DT:H72	2.46	0.46
181:Q9:27:DA:C2'	181:Q9:28:DT:H72	2.46	0.46
181:Q9:31:DA:C2'	181:Q9:32:DT:H72	2.46	0.46
182:QA:26:DA:C2'	182:QA:27:DT:H72	2.46	0.46
183:QC:14:DA:C2'	183:QC:15:DT:H72	2.46	0.46
185:R2:20:DG:H1'	185:R2:21:DA:H5'	1.98	0.46
191:RA:23:DA:C2'	191:RA:24:DT:H72	2.46	0.46
192:RC:33:DG:H2''	192:RC:34:DC:O5'	2.13	0.46
193:RD:16:DA:C2'	193:RD:17:DT:H72	2.46	0.46
194:S2:7:DA:C2'	194:S2:8:DT:H72	2.46	0.46
196:S5:22:DG:H1'	196:S5:23:DA:H5'	1.98	0.46
198:S8:30:DA:C2'	198:S8:31:DT:H72	2.46	0.46
199:S9:13:DA:C2'	199:S9:14:DT:H72	2.46	0.46
203:T2:10:DG:H2''	203:T2:11:DC:O5'	2.13	0.46
204:T3:10:DA:C2'	204:T3:11:DT:H72	2.46	0.46
208:T9:16:DA:C2'	208:T9:17:DT:H72	2.46	0.46
213:U3:1:DG:H1'	213:U3:2:DA:H5'	1.98	0.46
219:UC:22:DA:C2'	219:UC:23:DT:H72	2.46	0.46
220:UD:4:DA:C2'	220:UD:5:DT:H72	2.46	0.46
221:V2:3:DA:C2'	221:V2:4:DT:H72	2.46	0.46
222:V3:12:DG:H1'	222:V3:13:DA:H5'	1.98	0.46
223:V5:39:DA:C2'	223:V5:40:DT:H72	2.46	0.46
226:V9:26:DA:C2'	226:V9:27:DT:H72	2.46	0.46
228:VC:16:DA:C2'	228:VC:17:DT:H72	2.46	0.46
230:W3:23:DA:C2'	230:W3:24:DT:H72	2.46	0.46
232:W7:9:DA:C2'	232:W7:10:DT:H72	2.46	0.46
232:W7:15:DA:C2'	232:W7:16:DT:H72	2.46	0.46
237:X7:2:DA:C2'	237:X7:3:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
237:X7:9:DA:C2'	237:X7:10:DT:H72	2.46	0.46
5:A5:5:DA:C2'	5:A5:6:DT:H72	2.46	0.46
11:AB:93:DG:H1'	11:AB:94:DA:H5'	1.98	0.46
11:AB:171:DA:C2'	11:AB:172:DT:H72	2.46	0.46
11:AB:317:DG:H1'	11:AB:318:DA:H5'	1.98	0.46
11:AB:371:DA:C2'	11:AB:372:DT:H72	2.46	0.46
11:AB:381:DA:C2'	11:AB:382:DT:H72	2.46	0.46
11:AB:492:DA:C2'	11:AB:493:DT:H72	2.46	0.46
11:AB:562:DA:C2'	11:AB:563:DT:H72	2.46	0.46
11:AB:568:DA:C2'	11:AB:569:DT:H72	2.46	0.46
11:AB:631:DA:C2'	11:AB:632:DT:H72	2.46	0.46
11:AB:644:DA:C2'	11:AB:645:DT:H72	2.46	0.46
11:AB:760:DG:H1'	11:AB:761:DA:H5'	1.97	0.46
11:AB:775:DA:C2'	11:AB:776:DT:H72	2.46	0.46
11:AB:850:DA:C2'	11:AB:851:DT:H72	2.46	0.46
11:AB:973:DA:C2'	11:AB:974:DT:H72	2.46	0.46
11:AB:1014:DA:C2'	11:AB:1015:DT:H72	2.46	0.46
11:AB:1016:DG:H1'	11:AB:1017:DA:H5'	1.98	0.46
11:AB:1215:DA:C2'	11:AB:1216:DT:H72	2.46	0.46
11:AB:1222:DA:C2'	11:AB:1223:DT:H72	2.46	0.46
11:AB:1532:DA:C2'	11:AB:1533:DT:H72	2.46	0.46
11:AB:1628:DG:H1'	11:AB:1629:DA:H5'	1.97	0.46
11:AB:1688:DA:C2'	11:AB:1689:DT:H72	2.46	0.46
11:AB:1709:DA:C2'	11:AB:1710:DT:H72	2.46	0.46
11:AB:1746:DA:C2'	11:AB:1747:DT:H72	2.46	0.46
11:AB:1752:DA:C2'	11:AB:1753:DT:H72	2.46	0.46
11:AB:1765:DA:C2'	11:AB:1766:DT:H72	2.46	0.46
11:AB:1767:DA:C2'	11:AB:1768:DT:H72	2.46	0.46
11:AB:1842:DA:C2'	11:AB:1843:DT:H72	2.46	0.46
11:AB:1870:DA:C2'	11:AB:1871:DT:H72	2.46	0.46
11:AB:1974:DA:C2'	11:AB:1975:DT:H72	2.46	0.46
11:AB:2502:DA:C2'	11:AB:2503:DT:H72	2.46	0.46
11:AB:2558:DA:C2'	11:AB:2559:DT:H72	2.46	0.46
11:AB:2620:DA:C2'	11:AB:2621:DT:H72	2.46	0.46
11:AB:2629:DA:C2'	11:AB:2630:DT:H72	2.46	0.46
11:AB:2662:DA:C2'	11:AB:2663:DT:H72	2.46	0.46
11:AB:2706:DA:C2'	11:AB:2707:DT:H72	2.46	0.46
11:AB:2710:DA:C2'	11:AB:2711:DT:H72	2.46	0.46
11:AB:2726:DG:H1'	11:AB:2727:DA:H5'	1.98	0.46
11:AB:2737:DA:C2'	11:AB:2738:DT:H72	2.46	0.46
11:AB:2796:DA:C2'	11:AB:2797:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2813:DA:C2'	11:AB:2814:DT:H72	2.46	0.46
11:AB:2827:DA:C2'	11:AB:2828:DT:H72	2.46	0.46
11:AB:2838:DA:C2'	11:AB:2839:DT:H72	2.46	0.46
11:AB:2866:DA:C2'	11:AB:2867:DT:H72	2.46	0.46
11:AB:3108:DA:C2'	11:AB:3109:DT:H72	2.46	0.46
11:AB:3199:DA:C2'	11:AB:3200:DT:H72	2.46	0.46
11:AB:3226:DA:C2'	11:AB:3227:DT:H72	2.46	0.46
11:AB:3282:DA:C2'	11:AB:3283:DT:H72	2.46	0.46
11:AB:3299:DA:C2'	11:AB:3300:DT:H72	2.46	0.46
11:AB:3303:DA:C2'	11:AB:3304:DT:H72	2.46	0.46
11:AB:3384:DA:C2'	11:AB:3385:DT:H72	2.46	0.46
11:AB:3597:DA:C2'	11:AB:3598:DT:H72	2.46	0.46
11:AB:3606:DG:H2''	11:AB:3607:DC:O5'	2.13	0.46
11:AB:3814:DG:H1'	11:AB:3815:DA:H5'	1.97	0.46
11:AB:3947:DA:C2'	11:AB:3948:DT:H72	2.46	0.46
11:AB:4145:DG:H2''	11:AB:4146:DC:O5'	2.13	0.46
11:AB:4311:DG:H1'	11:AB:4312:DA:H5'	1.97	0.46
11:AB:4456:DA:C2'	11:AB:4457:DT:H72	2.46	0.46
11:AB:4466:DG:H2''	11:AB:4467:DC:O5'	2.13	0.46
11:AB:4679:DA:C2'	11:AB:4680:DT:H72	2.46	0.46
11:AB:4793:DA:C2'	11:AB:4794:DT:H72	2.46	0.46
11:AB:4824:DA:C2'	11:AB:4825:DT:H72	2.46	0.46
11:AB:4832:DG:H1'	11:AB:4833:DA:H5'	1.97	0.46
11:AB:5087:DG:H1'	11:AB:5088:DA:H5'	1.98	0.46
11:AB:5264:DA:C2'	11:AB:5265:DT:H72	2.46	0.46
11:AB:5274:DA:C2'	11:AB:5275:DT:H72	2.46	0.46
11:AB:5297:DA:C2'	11:AB:5298:DT:H72	2.46	0.46
11:AB:5340:DA:C2'	11:AB:5341:DT:H72	2.46	0.46
11:AB:5369:DA:C2'	11:AB:5370:DT:H72	2.46	0.46
11:AB:5442:DA:C2'	11:AB:5443:DT:H72	2.46	0.46
11:AB:5754:DA:C2'	11:AB:5755:DT:H72	2.46	0.46
11:AB:5786:DA:C2'	11:AB:5787:DT:H72	2.46	0.46
11:AB:5807:DA:C2'	11:AB:5808:DT:H72	2.46	0.46
11:AB:5811:DA:C2'	11:AB:5812:DT:H72	2.46	0.46
11:AB:5833:DA:C2'	11:AB:5834:DT:H72	2.46	0.46
11:AB:6160:DA:C2'	11:AB:6161:DT:H72	2.46	0.46
11:AB:6236:DA:C2'	11:AB:6237:DT:H72	2.46	0.46
11:AB:6286:DG:H1'	11:AB:6287:DA:H5'	1.97	0.46
11:AB:6342:DA:C2'	11:AB:6343:DT:H72	2.46	0.46
11:AB:6428:DA:C2'	11:AB:6429:DT:H72	2.46	0.46
11:AB:6586:DA:C2'	11:AB:6587:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6646:DG:H2''	11:AB:6647:DC:O5'	2.13	0.46
11:AB:6678:DA:C2'	11:AB:6679:DT:H72	2.46	0.46
11:AB:6769:DA:C2'	11:AB:6770:DT:H72	2.46	0.46
11:AB:6944:DA:C2'	11:AB:6945:DT:H72	2.46	0.46
11:AB:6955:DA:C2'	11:AB:6956:DT:H72	2.46	0.46
11:AB:7026:DA:C2'	11:AB:7027:DT:H72	2.46	0.46
11:AB:7174:DG:H1'	11:AB:7175:DA:H5'	1.98	0.46
11:AB:7247:DG:H1'	11:AB:7248:DA:H5'	1.98	0.46
13:AD:16:DG:H1'	13:AD:17:DA:H5'	1.98	0.46
14:B1:36:DA:C2'	14:B1:37:DT:H72	2.46	0.46
16:B3:7:DA:C2'	16:B3:8:DT:H72	2.46	0.46
17:B4:9:DA:C2'	17:B4:10:DT:H72	2.46	0.46
18:B5:38:DA:C2'	194:S2:1:DT:H72	2.46	0.46
23:BA:31:DA:C2'	23:BA:32:DT:H72	2.46	0.46
24:BC:12:DG:H1'	24:BC:13:DA:H5'	1.98	0.46
28:C3:24:DG:H1'	28:C3:25:DA:H5'	1.98	0.46
30:C6:26:DC:H2'	30:C6:27:DT:H72	1.97	0.46
31:C7:20:DG:H1'	31:C7:21:DA:H5'	1.97	0.46
33:C9:7:DA:C2'	33:C9:8:DT:H72	2.46	0.46
33:C9:17:DA:C2'	33:C9:18:DT:H72	2.46	0.46
43:D8:43:DA:C2'	43:D8:44:DT:H72	2.46	0.46
47:DD:35:DA:C2'	47:DD:36:DT:H72	2.46	0.46
50:E3:6:DA:C2'	50:E3:7:DT:H72	2.46	0.46
55:E9:13:DG:H1'	55:E9:14:DA:H5'	1.98	0.46
55:E9:15:DA:C2'	55:E9:16:DT:H72	2.46	0.46
59:F1:19:DA:C2'	59:F1:20:DT:H72	2.46	0.46
60:F2:12:DG:H2''	60:F2:13:DC:O5'	2.13	0.46
61:F3:2:DA:C2'	61:F3:3:DT:H72	2.46	0.46
62:F5:18:DG:H2''	62:F5:19:DC:O5'	2.13	0.46
62:F5:27:DA:C2'	62:F5:28:DT:H72	2.46	0.46
65:F8:7:DA:C2'	65:F8:8:DT:H72	2.46	0.46
67:FA:1:DG:H1'	67:FA:2:DA:H5'	1.97	0.46
68:FC:2:DA:C2'	68:FC:3:DT:H72	2.46	0.46
69:FD:12:DA:C2'	69:FD:13:DT:H72	2.46	0.46
73:G5:15:DA:H5'	117:K5:32:DG:H1'	1.98	0.46
75:G7:13:DA:C2'	75:G7:14:DT:H72	2.46	0.46
83:H3:13:DA:C2'	83:H3:14:DT:H72	2.46	0.46
83:H3:34:DA:C2'	83:H3:35:DT:H72	2.46	0.46
85:H6:26:DG:H1'	85:H6:27:DA:H5'	1.97	0.46
89:HA:13:DG:H1'	89:HA:14:DA:H5'	1.98	0.46
90:HC:21:DG:H1'	90:HC:22:DA:H5'	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
91:HD:12:DA:C2'	91:HD:13:DT:H72	2.46	0.46
98:I8:41:DA:C2'	98:I8:42:DT:H72	2.46	0.46
127:L3:15:DG:H1'	127:L3:16:DA:H5'	1.98	0.46
130:L7:44:DA:C2'	130:L7:45:DT:H72	2.46	0.46
131:L8:12:DA:C2'	131:L8:13:DT:H72	2.46	0.46
138:M5:19:DA:C2'	138:M5:20:DT:H72	2.46	0.46
145:MD:9:DA:C2'	226:V9:12:DT:H72	2.46	0.46
147:N3:31:DA:C2'	147:N3:32:DT:H72	2.46	0.46
149:N6:13:DA:C2'	149:N6:14:DT:H72	2.46	0.46
150:N7:7:DA:C2'	150:N7:8:DT:H72	2.46	0.46
157:O3:22:DA:C2'	157:O3:23:DT:H72	2.46	0.46
158:O5:15:DA:C2'	158:O5:16:DT:H72	2.46	0.46
161:O8:45:DA:C2'	161:O8:46:DT:H72	2.46	0.46
165:OD:3:DA:C2'	165:OD:4:DT:H72	2.46	0.46
165:OD:6:DG:H1'	165:OD:7:DA:H5'	1.98	0.46
165:OD:17:DA:C2'	165:OD:18:DT:H72	2.46	0.46
165:OD:52:DA:C2'	165:OD:53:DT:H72	2.46	0.46
167:P3:4:DG:H1'	167:P3:5:DA:H5'	1.98	0.46
170:P7:14:DA:C2'	170:P7:15:DT:H72	2.46	0.46
174:PC:17:DA:C2'	174:PC:18:DT:H72	2.46	0.46
179:Q7:7:DG:H1'	179:Q7:8:DA:H5'	1.97	0.46
179:Q7:9:DA:C2'	179:Q7:10:DT:H72	2.46	0.46
179:Q7:19:DA:C2'	179:Q7:20:DT:H72	2.46	0.46
187:R5:29:DA:C2'	187:R5:30:DT:H72	2.46	0.46
189:R8:5:DA:C2'	189:R8:6:DT:H72	2.46	0.46
192:RC:14:DA:C2'	192:RC:15:DT:H72	2.46	0.46
192:RC:16:DA:C2'	192:RC:17:DT:H72	2.46	0.46
193:RD:20:DA:C2'	193:RD:21:DT:H72	2.46	0.46
201:SC:12:DG:H1'	201:SC:13:DA:H5'	1.97	0.46
206:T7:25:DA:C2'	206:T7:26:DT:H72	2.46	0.46
208:T9:11:DA:C2'	208:T9:12:DT:H72	2.46	0.46
210:TC:14:DA:C2'	210:TC:15:DT:H72	2.46	0.46
211:TD:32:DA:C2'	211:TD:33:DT:H72	2.46	0.46
213:U3:2:DA:C2'	213:U3:3:DT:H72	2.46	0.46
215:U7:8:DA:C2'	215:U7:9:DT:H72	2.46	0.46
216:U8:8:DA:C2'	216:U8:9:DT:H72	2.46	0.46
222:V3:17:DG:H1'	222:V3:18:DA:H5'	1.98	0.46
223:V5:7:DG:H1'	223:V5:8:DA:H5'	1.98	0.46
228:VC:6:DA:C2'	228:VC:7:DT:H72	2.46	0.46
229:VD:19:DA:C2'	229:VD:20:DT:H72	2.46	0.46
230:W3:4:DA:C2'	230:W3:5:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
238:X9:53:DG:H2''	238:X9:54:DC:O5'	2.13	0.46
3:A3:3:DA:C2'	3:A3:4:DT:H72	2.46	0.46
4:A4:15:DA:C2'	4:A4:16:DT:H72	2.46	0.46
4:A4:31:DA:C2'	4:A4:32:DT:H72	2.46	0.46
5:A5:16:DA:C2'	5:A5:17:DT:H72	2.46	0.46
10:AA:21:DG:H1'	10:AA:22:DA:H5'	1.98	0.46
10:AA:23:DG:H1'	161:O8:33:DA:H5'	1.98	0.46
11:AB:3:DA:C2'	11:AB:4:DT:H72	2.46	0.46
11:AB:502:DA:C2'	11:AB:503:DT:H72	2.46	0.46
11:AB:619:DA:C2'	11:AB:620:DT:H72	2.46	0.46
11:AB:716:DA:C2'	11:AB:717:DT:H72	2.46	0.46
11:AB:797:DA:C2'	11:AB:798:DT:H72	2.46	0.46
11:AB:821:DA:C2'	11:AB:822:DT:H72	2.46	0.46
11:AB:1102:DA:C2'	11:AB:1103:DT:H72	2.46	0.46
11:AB:1179:DA:C2'	11:AB:1180:DT:H72	2.46	0.46
11:AB:1204:DA:C2'	11:AB:1205:DT:H72	2.46	0.46
11:AB:1311:DG:H1'	11:AB:1312:DA:H5'	1.98	0.46
11:AB:1424:DA:C2'	11:AB:1425:DT:H72	2.46	0.46
11:AB:1445:DA:C2'	11:AB:1446:DT:H72	2.46	0.46
11:AB:1605:DA:C2'	11:AB:1606:DT:H72	2.46	0.46
11:AB:1945:DA:C2'	11:AB:1946:DT:H72	2.46	0.46
11:AB:1987:DA:C2'	11:AB:1988:DT:H72	2.46	0.46
11:AB:2065:DA:C2'	11:AB:2066:DT:H72	2.46	0.46
11:AB:2073:DG:H1'	11:AB:2074:DA:H5'	1.97	0.46
11:AB:2085:DA:C2'	11:AB:2086:DT:H72	2.46	0.46
11:AB:2091:DG:H1'	11:AB:2092:DA:H5'	1.98	0.46
11:AB:2248:DA:C2'	11:AB:2249:DT:H72	2.46	0.46
11:AB:2321:DA:C2'	11:AB:2322:DT:H72	2.46	0.46
11:AB:2458:DA:C2'	11:AB:2459:DT:H72	2.46	0.46
11:AB:2468:DA:C2'	11:AB:2469:DT:H72	2.46	0.46
11:AB:2755:DA:C2'	11:AB:2756:DT:H72	2.46	0.46
11:AB:3111:DA:C2'	11:AB:3112:DT:H72	2.46	0.46
11:AB:3422:DA:C2'	11:AB:3423:DT:H72	2.46	0.46
11:AB:3539:DA:C2'	11:AB:3540:DT:H72	2.46	0.46
11:AB:3727:DG:H1'	11:AB:3728:DA:H5'	1.98	0.46
11:AB:3845:DA:C2'	11:AB:3846:DT:H72	2.46	0.46
11:AB:3863:DG:H1'	11:AB:3864:DA:H5'	1.97	0.46
11:AB:3929:DA:C2'	11:AB:3930:DT:H72	2.46	0.46
11:AB:4393:DA:C2'	11:AB:4394:DT:H72	2.46	0.46
11:AB:4416:DA:C2'	11:AB:4417:DT:H72	2.46	0.46
11:AB:4528:DA:C2'	11:AB:4529:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4538:DG:H2''	11:AB:4539:DC:O5'	2.13	0.46
11:AB:4633:DG:H1'	11:AB:4634:DA:H5'	1.97	0.46
11:AB:4650:DG:H1'	11:AB:4651:DA:H5'	1.97	0.46
11:AB:4787:DA:C2'	11:AB:4788:DT:H72	2.46	0.46
11:AB:4807:DG:H1'	11:AB:4808:DA:H5'	1.98	0.46
11:AB:4976:DG:H1'	11:AB:4977:DA:H5'	1.97	0.46
11:AB:5054:DG:H1'	11:AB:5055:DA:H5'	1.98	0.46
11:AB:5200:DG:H1'	11:AB:5201:DA:H5'	1.98	0.46
11:AB:5226:DA:C2'	11:AB:5227:DT:H72	2.46	0.46
11:AB:5257:DG:H1'	11:AB:5258:DA:H5'	1.98	0.46
11:AB:5327:DA:C2'	11:AB:5328:DT:H72	2.46	0.46
11:AB:5361:DA:C2'	11:AB:5362:DT:H72	2.46	0.46
11:AB:5374:DA:C2'	11:AB:5375:DT:H72	2.46	0.46
11:AB:5488:DG:H1'	11:AB:5489:DA:H5'	1.97	0.46
11:AB:5579:DA:C2'	11:AB:5580:DT:H72	2.46	0.46
11:AB:5675:DA:C2'	11:AB:5676:DT:H72	2.46	0.46
11:AB:5744:DA:C2'	11:AB:5745:DT:H72	2.46	0.46
11:AB:5764:DG:H2''	11:AB:5765:DC:O5'	2.13	0.46
11:AB:5881:DA:C2'	11:AB:5882:DT:H72	2.46	0.46
11:AB:5896:DA:C2'	11:AB:5897:DT:H72	2.46	0.46
11:AB:5934:DA:C2'	11:AB:5935:DT:H72	2.46	0.46
11:AB:5975:DA:C2'	11:AB:5976:DT:H72	2.46	0.46
11:AB:6124:DG:H1'	11:AB:6125:DA:H5'	1.98	0.46
11:AB:6229:DG:H1'	11:AB:6230:DA:H5'	1.98	0.46
11:AB:6332:DA:C2'	11:AB:6333:DT:H72	2.46	0.46
11:AB:6455:DA:C2'	11:AB:6456:DT:H72	2.46	0.46
11:AB:6497:DA:C2'	11:AB:6498:DT:H72	2.46	0.46
11:AB:6514:DG:H1'	11:AB:6515:DA:H5'	1.98	0.46
11:AB:6531:DA:C2'	11:AB:6532:DT:H72	2.46	0.46
11:AB:6800:DG:H1'	11:AB:6801:DA:H5'	1.98	0.46
11:AB:7175:DA:C2'	11:AB:7176:DT:H72	2.46	0.46
13:AD:31:DA:H5'	225:V8:24:DG:H1'	1.98	0.46
18:B5:15:DG:H1'	18:B5:16:DA:H5'	1.98	0.46
21:B8:9:DA:C2'	21:B8:10:DT:H72	2.46	0.46
26:C1:19:DG:H1'	26:C1:20:DA:H5'	1.98	0.46
30:C6:12:DC:H2'	30:C6:13:DT:H72	1.97	0.46
31:C7:10:DA:C2'	31:C7:11:DT:H72	2.46	0.46
33:C9:9:DG:H1'	33:C9:10:DA:H5'	1.98	0.46
35:CC:22:DG:H1'	35:CC:23:DA:H5'	1.98	0.46
37:D1:3:DA:C2'	37:D1:4:DT:H72	2.46	0.46
44:D9:27:DG:H2''	44:D9:28:DC:O5'	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DA:14:DG:H2''	45:DA:15:DC:O5'	2.13	0.46
53:E7:8:DA:C2'	53:E7:9:DT:H72	2.46	0.46
54:E8:8:DA:C2'	54:E8:9:DT:H72	2.46	0.46
62:F5:39:DA:C2'	62:F5:40:DT:H72	2.46	0.46
64:F7:26:DA:C2'	64:F7:27:DT:H72	2.46	0.46
79:GC:15:DT:H72	98:I8:30:DA:C2'	2.46	0.46
81:H1:7:DA:C2'	81:H1:8:DT:H72	2.46	0.46
82:H2:9:DA:C2'	82:H2:10:DT:H72	2.46	0.46
82:H2:15:DA:C2'	82:H2:16:DT:H72	2.46	0.46
88:H9:1:DA:C2'	88:H9:2:DT:H72	2.46	0.46
91:HD:8:DA:C2'	91:HD:9:DT:H72	2.46	0.46
98:I8:15:DA:C2'	98:I8:16:DT:H72	2.46	0.46
99:I9:12:DA:C2'	99:I9:13:DT:H72	2.46	0.46
102:ID:17:DG:H1'	102:ID:18:DA:H5'	1.97	0.46
103:J1:10:DA:C2'	103:J1:11:DT:H72	2.46	0.46
105:J3:33:DG:H1'	105:J3:34:DA:H5'	1.98	0.46
108:J7:5:DG:H1'	108:J7:6:DA:H5'	1.97	0.46
108:J7:29:DT:H72	222:V3:4:DA:C2'	2.46	0.46
109:J8:38:DA:C2'	109:J8:39:DT:H72	2.46	0.46
117:K5:12:DT:H72	205:T5:9:DA:C2'	2.46	0.46
121:K9:14:DT:H72	145:MD:37:DA:C2'	2.46	0.46
123:KC:5:DA:C2'	123:KC:6:DT:H72	2.46	0.46
123:KC:23:DG:H1'	123:KC:24:DA:H5'	1.98	0.46
124:KD:7:DC:H2'	124:KD:8:DT:H72	1.97	0.46
136:M2:4:DA:C2'	136:M2:5:DT:H72	2.46	0.46
137:M3:13:DG:H1'	137:M3:14:DA:H5'	1.98	0.46
141:M8:24:DA:C2'	141:M8:25:DT:H72	2.46	0.46
145:MD:57:DA:C2'	145:MD:58:DT:H72	2.46	0.46
150:N7:6:DG:H1'	150:N7:7:DA:H5'	1.98	0.46
152:N9:35:DA:C2'	152:N9:36:DT:H72	2.46	0.46
156:O2:24:DA:C2'	156:O2:25:DT:H72	2.46	0.46
159:O6:13:DA:C2'	159:O6:14:DT:H72	2.46	0.46
161:O8:51:DG:H1'	161:O8:52:DA:H5'	1.98	0.46
162:O9:5:DG:H1'	162:O9:6:DA:H5'	1.98	0.46
162:O9:14:DA:H5'	191:RA:27:DG:H1'	1.98	0.46
163:OA:16:DA:C2'	163:OA:17:DT:H72	2.46	0.46
165:OD:35:DG:H1'	165:OD:36:DA:H5'	1.98	0.46
177:Q3:26:DA:C2'	177:Q3:27:DT:H72	2.46	0.46
180:Q8:19:DA:C2'	180:Q8:20:DT:H72	2.46	0.46
184:QD:28:DA:C2'	184:QD:29:DT:H72	2.46	0.46
185:R2:21:DA:C2'	185:R2:22:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
187:R5:21:DG:H1'	187:R5:22:DA:H5'	1.98	0.46
202:SD:27:DA:C2'	202:SD:28:DT:H72	2.46	0.46
203:T2:17:DA:C2'	203:T2:18:DT:H72	2.46	0.46
207:T8:5:DA:C2'	207:T8:6:DT:H72	2.46	0.46
210:TC:17:DA:C2'	210:TC:18:DT:H72	2.46	0.46
211:TD:15:DA:C2'	211:TD:16:DT:H72	2.46	0.46
214:U5:27:DG:H1'	214:U5:28:DA:H5'	1.98	0.46
214:U5:34:DA:C2'	214:U5:35:DT:H72	2.46	0.46
215:U7:5:DA:C2'	215:U7:6:DT:H72	2.46	0.46
217:U9:24:DG:H1'	217:U9:25:DA:H5'	1.98	0.46
219:UC:14:DA:C2'	219:UC:15:DT:H72	2.46	0.46
219:UC:27:DG:H1'	219:UC:28:DA:H5'	1.98	0.46
219:UC:35:DA:C2'	219:UC:36:DT:H72	2.46	0.46
222:V3:1:DA:C2'	222:V3:2:DT:H72	2.46	0.46
226:V9:8:DA:C2'	226:V9:9:DT:H72	2.46	0.46
226:V9:24:DG:H1'	226:V9:25:DA:H5'	1.98	0.46
228:VC:29:DG:H2''	228:VC:30:DC:O5'	2.13	0.46
233:W8:5:DA:C2'	233:W8:6:DT:H72	2.46	0.46
236:X5:10:DA:C2'	236:X5:11:DT:H72	2.46	0.46
236:X5:20:DA:C2'	236:X5:21:DT:H72	2.46	0.46
238:X9:8:DA:C2'	238:X9:9:DT:H72	2.46	0.46
238:X9:16:DA:C2'	238:X9:17:DT:H72	2.46	0.46
6:A6:18:DA:C2'	6:A6:19:DT:H72	2.46	0.46
6:A6:21:DG:H1'	6:A6:22:DA:H5'	1.98	0.46
7:A7:26:DA:C2'	7:A7:27:DT:H72	2.46	0.46
9:A9:13:DA:C2'	9:A9:14:DT:H72	2.46	0.46
11:AB:1:DA:C2'	11:AB:2:DT:H72	2.46	0.46
11:AB:5:DA:C2'	11:AB:6:DT:H72	2.46	0.46
11:AB:35:DA:C2'	11:AB:36:DT:H72	2.46	0.46
11:AB:56:DA:C2'	11:AB:57:DT:H72	2.46	0.46
11:AB:70:DG:H1'	11:AB:71:DA:H5'	1.98	0.46
11:AB:161:DA:C2'	11:AB:162:DT:H72	2.46	0.46
11:AB:483:DG:H1'	11:AB:484:DA:H5'	1.98	0.46
11:AB:532:DA:C2'	11:AB:533:DT:H72	2.46	0.46
11:AB:579:DG:H1'	11:AB:580:DA:H5'	1.98	0.46
11:AB:755:DA:C2'	11:AB:756:DT:H72	2.46	0.46
11:AB:1171:DA:C2'	11:AB:1172:DT:H72	2.46	0.46
11:AB:1262:DA:C2'	11:AB:1263:DT:H72	2.46	0.46
11:AB:1297:DA:C2'	11:AB:1298:DT:H72	2.46	0.46
11:AB:1317:DG:H1'	11:AB:1318:DA:H5'	1.98	0.46
11:AB:1412:DT:H72	11:AB:6159:DA:C2'	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1453:DA:C2'	11:AB:1454:DT:H72	2.46	0.46
11:AB:1506:DC:H2'	11:AB:1507:DT:H72	1.97	0.46
11:AB:1804:DG:H1'	11:AB:1805:DA:H5'	1.98	0.46
11:AB:1876:DA:C2'	11:AB:1877:DT:H72	2.46	0.46
11:AB:2001:DG:H1'	11:AB:2002:DA:H5'	1.98	0.46
11:AB:2290:DA:C2'	11:AB:2291:DT:H72	2.46	0.46
11:AB:2689:DA:C2'	11:AB:2690:DT:H72	2.46	0.46
11:AB:2719:DA:C2'	11:AB:2720:DT:H72	2.46	0.46
11:AB:2785:DA:C2'	11:AB:2786:DT:H72	2.46	0.46
11:AB:2809:DA:C2'	11:AB:2810:DT:H72	2.46	0.46
11:AB:2887:DG:H1'	11:AB:2888:DA:H5'	1.98	0.46
11:AB:2970:DA:C2'	11:AB:2971:DT:H72	2.46	0.46
11:AB:3066:DG:H1'	11:AB:3067:DA:H5'	1.98	0.46
11:AB:3089:DA:C2'	11:AB:3090:DT:H72	2.46	0.46
11:AB:3098:DA:C2'	11:AB:3099:DT:H72	2.46	0.46
11:AB:3509:DC:H2'	11:AB:3510:DT:H72	1.97	0.46
11:AB:3581:DA:C2'	11:AB:3582:DT:H72	2.46	0.46
11:AB:3707:DA:C2'	11:AB:3708:DT:H72	2.46	0.46
11:AB:3724:DA:C2'	11:AB:3725:DT:H72	2.46	0.46
11:AB:3884:DA:C2'	11:AB:3885:DT:H72	2.46	0.46
11:AB:4133:DG:H2''	11:AB:4134:DC:O5'	2.13	0.46
11:AB:4242:DC:H2'	11:AB:4243:DT:H72	1.97	0.46
11:AB:4280:DG:H1'	11:AB:4281:DA:H5'	1.98	0.46
11:AB:4438:DG:H1'	11:AB:4439:DA:H5'	1.98	0.46
11:AB:4510:DG:H2''	11:AB:4511:DC:O5'	2.13	0.46
11:AB:4663:DG:H1'	11:AB:4664:DA:H5'	1.98	0.46
11:AB:4723:DA:C2'	11:AB:4724:DT:H72	2.46	0.46
11:AB:4755:DG:H1'	11:AB:4756:DA:H5'	1.98	0.46
11:AB:4938:DC:H2'	11:AB:4939:DT:H72	1.97	0.46
11:AB:4961:DG:H1'	11:AB:4962:DA:H5'	1.97	0.46
11:AB:4971:DG:H2''	11:AB:4972:DC:O5'	2.13	0.46
11:AB:5359:DA:C2'	11:AB:5360:DT:H72	2.46	0.46
11:AB:5419:DA:C2'	11:AB:5420:DT:H72	2.46	0.46
11:AB:5430:DG:H2''	11:AB:5431:DC:O5'	2.13	0.46
11:AB:5455:DG:H1'	11:AB:5456:DA:H5'	1.98	0.46
11:AB:5486:DA:C2'	11:AB:5487:DT:H72	2.46	0.46
11:AB:5509:DC:H2'	11:AB:5510:DT:H72	1.97	0.46
11:AB:5560:DG:H1'	11:AB:5561:DA:H5'	1.97	0.46
11:AB:5600:DC:H2'	11:AB:5601:DT:H72	1.97	0.46
11:AB:5643:DA:C2'	11:AB:5644:DT:H72	2.46	0.46
11:AB:5654:DA:C2'	11:AB:5655:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5723:DA:C2'	11:AB:5724:DT:H72	2.46	0.46
11:AB:5842:DA:C2'	11:AB:5843:DT:H72	2.46	0.46
11:AB:6110:DA:C2'	11:AB:6111:DT:H72	2.46	0.46
11:AB:6273:DA:C2'	11:AB:6274:DT:H72	2.46	0.46
11:AB:6778:DA:C2'	11:AB:6779:DT:H72	2.46	0.46
11:AB:6829:DA:C2'	11:AB:6830:DT:H72	2.46	0.46
11:AB:7121:DA:C2'	11:AB:7122:DT:H72	2.46	0.46
11:AB:7188:DC:H2'	11:AB:7189:DT:H72	1.97	0.46
12:AC:9:DA:C2'	12:AC:10:DT:H72	2.46	0.46
19:B6:20:DA:C2'	19:B6:21:DT:H72	2.46	0.46
21:B8:23:DT:H72	139:M6:14:DA:C2'	2.46	0.46
22:B9:11:DG:H1'	22:B9:12:DA:H5'	1.97	0.46
25:BD:7:DG:H1'	25:BD:8:DA:H5'	1.98	0.46
26:C1:6:DA:C2'	26:C1:7:DT:H72	2.46	0.46
26:C1:20:DA:C2'	26:C1:21:DT:H72	2.46	0.46
26:C1:22:DA:C2'	26:C1:23:DT:H72	2.46	0.46
27:C2:9:DG:H1'	27:C2:10:DA:H5'	1.97	0.46
43:D8:5:DG:H1'	43:D8:6:DA:H5'	1.98	0.46
45:DA:20:DG:H1'	45:DA:21:DA:H5'	1.98	0.46
49:E2:20:DA:C2'	49:E2:21:DT:H72	2.46	0.46
57:EC:19:DA:C2'	57:EC:20:DT:H72	2.46	0.46
69:FD:40:DG:H1'	69:FD:41:DA:H5'	1.98	0.46
72:G3:17:DA:C2'	72:G3:18:DT:H72	2.46	0.46
80:GD:6:DA:C2'	80:GD:7:DT:H72	2.46	0.46
82:H2:47:DG:H2''	82:H2:48:DC:O5'	2.13	0.46
86:H7:14:DG:H1'	86:H7:15:DA:H5'	1.98	0.46
88:H9:6:DA:C2'	88:H9:7:DT:H72	2.46	0.46
89:HA:20:DG:H1'	89:HA:21:DA:H5'	1.98	0.46
91:HD:17:DG:H2''	91:HD:18:DC:O5'	2.13	0.46
92:I1:17:DG:H2''	92:I1:18:DC:O5'	2.13	0.46
95:I5:29:DA:H5'	223:V5:6:DG:H1'	1.98	0.46
98:I8:22:DA:C2'	98:I8:23:DT:H72	2.46	0.46
100:IA:13:DA:C2'	100:IA:14:DT:H72	2.46	0.46
101:IC:5:DG:H2''	101:IC:6:DC:O5'	2.13	0.46
101:IC:11:DA:C2'	101:IC:12:DT:H72	2.46	0.46
108:J7:2:DA:C2'	108:J7:3:DT:H72	2.46	0.46
108:J7:26:DA:C2'	108:J7:27:DT:H72	2.46	0.46
113:JD:19:DA:C2'	113:JD:20:DT:H72	2.46	0.46
113:JD:22:DT:H72	190:R9:11:DA:C2'	2.46	0.46
118:K6:18:DG:H1'	118:K6:19:DA:H5'	1.98	0.46
120:K8:12:DT:H72	185:R2:7:DA:C2'	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
122:KA:28:DG:H1'	124:KD:17:DA:H5'	1.98	0.46
122:KA:48:DA:C2'	122:KA:49:DT:H72	2.46	0.46
125:L1:42:DA:C2'	125:L1:43:DT:H72	2.46	0.46
127:L3:12:DA:C2'	127:L3:13:DT:H72	2.46	0.46
129:L6:15:DA:C2'	129:L6:16:DT:H72	2.46	0.46
130:L7:19:DA:C2'	130:L7:20:DT:H72	2.46	0.46
133:LA:1:DT:H72	227:VA:29:DA:C2'	2.46	0.46
135:LD:14:DA:H5'	143:MA:41:DG:H1'	1.98	0.46
137:M3:20:DA:C2'	137:M3:21:DT:H72	2.46	0.46
138:M5:17:DA:C2'	138:M5:18:DT:H72	2.46	0.46
139:M6:13:DG:H1'	139:M6:14:DA:H5'	1.98	0.46
142:M9:9:DA:C2'	142:M9:10:DT:H72	2.46	0.46
143:MA:7:DA:C2'	143:MA:8:DT:H72	2.46	0.46
147:N3:26:DC:H2'	147:N3:27:DT:H72	1.97	0.46
149:N6:28:DA:C2'	149:N6:29:DT:H72	2.46	0.46
154:NC:30:DG:H2''	154:NC:31:DC:O5'	2.13	0.46
158:O5:12:DA:C2'	158:O5:13:DT:H72	2.46	0.46
158:O5:43:DA:C2'	158:O5:44:DT:H72	2.46	0.46
165:OD:29:DG:H1'	165:OD:30:DA:H5'	1.98	0.46
167:P3:37:DG:H1'	167:P3:38:DA:H5'	1.98	0.46
171:P8:20:DA:C2'	171:P8:21:DT:H72	2.46	0.46
178:Q5:26:DA:C2'	178:Q5:27:DT:H72	2.46	0.46
179:Q7:25:DG:H1'	179:Q7:26:DA:H5'	1.97	0.46
180:Q8:14:DA:C2'	180:Q8:15:DT:H72	2.46	0.46
180:Q8:17:DA:C2'	180:Q8:18:DT:H72	2.46	0.46
182:QA:15:DG:H1'	182:QA:16:DA:H5'	1.98	0.46
184:QD:26:DA:C2'	184:QD:27:DT:H72	2.46	0.46
189:R8:32:DA:C2'	189:R8:33:DT:H72	2.46	0.46
193:RD:9:DA:C2'	193:RD:10:DT:H72	2.46	0.46
194:S2:20:DA:C2'	194:S2:21:DT:H72	2.46	0.46
199:S9:10:DG:H2''	199:S9:11:DC:O5'	2.13	0.46
202:SD:6:DG:H1'	202:SD:7:DA:H5'	1.98	0.46
212:U2:14:DA:C2'	212:U2:15:DT:H72	2.46	0.46
225:V8:22:DG:H1'	225:V8:23:DA:H5'	1.98	0.46
227:VA:5:DG:H1'	227:VA:6:DA:H5'	1.98	0.46
232:W7:19:DG:H2''	232:W7:20:DC:O5'	2.13	0.46
238:X9:30:DA:C2'	238:X9:31:DT:H72	2.46	0.46
5:A5:36:DT:H72	37:D1:14:DA:C2'	2.46	0.46
11:AB:207:DG:H1'	11:AB:208:DA:H5'	1.98	0.46
11:AB:301:DA:C2'	11:AB:302:DT:H72	2.46	0.46
11:AB:416:DC:H2'	11:AB:417:DT:H72	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:614:DG:H1'	11:AB:615:DA:H5'	1.98	0.46
11:AB:793:DA:C2'	11:AB:794:DT:H72	2.46	0.46
11:AB:886:DG:H2''	11:AB:887:DC:O5'	2.13	0.46
11:AB:891:DG:H1'	11:AB:892:DA:H5'	1.98	0.46
11:AB:959:DC:H2'	11:AB:960:DT:H72	1.97	0.46
11:AB:1219:DA:C2'	11:AB:1220:DT:H72	2.46	0.46
11:AB:2150:DA:C2'	11:AB:2151:DT:H72	2.46	0.46
11:AB:2154:DA:C2'	11:AB:2155:DT:H72	2.46	0.46
11:AB:2308:DA:C2'	11:AB:2309:DT:H72	2.46	0.46
11:AB:2346:DC:H2'	11:AB:2347:DT:H72	1.97	0.46
11:AB:2504:DA:C2'	11:AB:2505:DT:H72	2.46	0.46
11:AB:3267:DA:C2'	11:AB:3268:DT:H72	2.46	0.46
11:AB:3382:DA:C2'	11:AB:3383:DT:H72	2.46	0.46
11:AB:3399:DG:H1'	11:AB:3400:DA:H5'	1.98	0.46
11:AB:3430:DG:H1'	11:AB:3431:DA:H5'	1.98	0.46
11:AB:3446:DC:H2'	11:AB:3447:DT:H72	1.97	0.46
11:AB:3587:DA:C2'	11:AB:3588:DT:H72	2.46	0.46
11:AB:3595:DA:C2'	11:AB:3596:DT:H72	2.46	0.46
11:AB:3737:DA:C2'	11:AB:3738:DT:H72	2.46	0.46
11:AB:3745:DA:C2'	11:AB:3746:DT:H72	2.46	0.46
11:AB:3815:DA:C2'	11:AB:3816:DT:H72	2.46	0.46
11:AB:4209:DA:C2'	11:AB:4210:DT:H72	2.46	0.46
11:AB:4307:DG:H1'	11:AB:4308:DA:H5'	1.98	0.46
11:AB:4308:DA:C2'	11:AB:4309:DT:H72	2.46	0.46
11:AB:4322:DG:H2''	11:AB:4323:DC:O5'	2.13	0.46
11:AB:4608:DG:H2''	11:AB:4609:DC:O5'	2.13	0.46
11:AB:4750:DA:C2'	11:AB:4751:DT:H72	2.46	0.46
11:AB:5116:DG:H1'	11:AB:5117:DA:H5'	1.98	0.46
11:AB:5130:DA:C2'	11:AB:5131:DT:H72	2.46	0.46
11:AB:5305:DA:C2'	11:AB:5306:DT:H72	2.46	0.46
11:AB:5338:DA:C2'	11:AB:5339:DT:H72	2.46	0.46
11:AB:5569:DA:C2'	11:AB:5570:DT:H72	2.46	0.46
11:AB:5652:DA:C2'	11:AB:5653:DT:H72	2.46	0.46
11:AB:6032:DA:C2'	11:AB:6033:DT:H72	2.46	0.46
11:AB:6208:DG:H1'	11:AB:6209:DA:H5'	1.98	0.46
11:AB:6250:DG:H1'	11:AB:6251:DA:H5'	1.98	0.46
11:AB:6255:DG:H1'	11:AB:6256:DA:H5'	1.98	0.46
11:AB:6256:DA:C2'	11:AB:6257:DT:H72	2.46	0.46
11:AB:6304:DG:H1'	11:AB:6305:DA:H5'	1.98	0.46
11:AB:6805:DC:H2'	11:AB:6806:DT:H72	1.97	0.46
14:B1:18:DG:H1'	14:B1:19:DA:H5'	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B6:6:DA:C2'	19:B6:7:DT:H72	2.46	0.46
23:BA:10:DG:H1'	23:BA:11:DA:H5'	1.98	0.46
28:C3:11:DA:C2'	28:C3:12:DT:H72	2.46	0.46
29:C5:42:DG:H2''	223:V5:1:DC:O5'	2.13	0.46
30:C6:41:DG:H1'	30:C6:42:DA:H5'	1.98	0.46
37:D1:6:DA:C2'	37:D1:7:DT:H72	2.46	0.46
40:D5:8:DA:C2'	40:D5:9:DT:H72	2.46	0.46
40:D5:20:DA:C2'	40:D5:21:DT:H72	2.46	0.46
43:D8:2:DA:C2'	43:D8:3:DT:H72	2.46	0.46
45:DA:22:DG:H1'	45:DA:23:DA:H5'	1.98	0.46
48:E1:19:DA:C2'	48:E1:20:DT:H72	2.46	0.46
54:E8:21:DC:H2'	54:E8:22:DT:H72	1.97	0.46
74:G6:18:DA:C2'	74:G6:19:DT:H72	2.46	0.46
74:G6:31:DA:C2'	74:G6:32:DT:H72	2.46	0.46
83:H3:22:DA:H5'	152:N9:31:DG:H1'	1.98	0.46
85:H6:14:DA:C2'	149:N6:31:DT:H72	2.46	0.46
88:H9:16:DG:H2''	88:H9:17:DC:O5'	2.13	0.46
94:I3:10:DA:C2'	165:OD:43:DT:H72	2.46	0.46
99:I9:7:DC:H2'	99:I9:8:DT:H72	1.97	0.46
101:IC:15:DA:C2'	101:IC:16:DT:H72	2.46	0.46
102:ID:30:DG:H2''	102:ID:31:DC:O5'	2.13	0.46
108:J7:55:DG:H2''	108:J7:56:DC:O5'	2.13	0.46
112:JC:15:DT:H72	151:N8:10:DA:C2'	2.46	0.46
114:K1:2:DA:C2'	114:K1:3:DT:H72	2.46	0.46
119:K7:3:DG:H2''	119:K7:4:DC:O5'	2.13	0.46
129:L6:21:DC:H2'	129:L6:22:DT:H72	1.97	0.46
135:LD:18:DA:C2'	135:LD:19:DT:H72	2.46	0.46
136:M2:20:DA:C2'	136:M2:21:DT:H72	2.46	0.46
137:M3:5:DG:H1'	137:M3:6:DA:H5'	1.97	0.46
140:M7:22:DG:H1'	140:M7:23:DA:H5'	1.98	0.46
144:MC:19:DC:H2'	144:MC:20:DT:H72	1.97	0.46
145:MD:10:DT:H72	226:V9:11:DA:C2'	2.46	0.46
145:MD:28:DA:C2'	145:MD:29:DT:H72	2.46	0.46
145:MD:55:DG:H1'	145:MD:56:DA:H5'	1.98	0.46
154:NC:11:DA:H5'	174:PC:20:DG:H1'	1.98	0.46
157:O3:15:DA:C2'	157:O3:16:DT:H72	2.46	0.46
165:OD:55:DG:H2''	165:OD:56:DC:O5'	2.13	0.46
174:PC:14:DG:H1'	174:PC:15:DA:H5'	1.98	0.46
195:S3:22:DG:H1'	195:S3:23:DA:H5'	1.98	0.46
206:T7:9:DG:H2''	206:T7:10:DC:O5'	2.13	0.46
209:TA:2:DA:C2'	209:TA:3:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
211:TD:36:DA:C2'	211:TD:37:DT:H72	2.46	0.46
216:U8:14:DG:H1'	216:U8:15:DA:H5'	1.98	0.46
222:V3:18:DA:C2'	222:V3:19:DT:H72	2.46	0.46
230:W3:29:DA:C2'	230:W3:30:DT:H72	2.46	0.46
11:AB:285:DG:H1'	11:AB:286:DA:H5'	1.97	0.46
11:AB:510:DA:C2'	11:AB:511:DT:H72	2.46	0.46
11:AB:546:DG:H1'	11:AB:547:DA:H5'	1.98	0.46
11:AB:766:DG:H2''	11:AB:767:DC:O5'	2.13	0.46
11:AB:1301:DA:C2'	11:AB:1302:DT:H72	2.46	0.46
11:AB:1596:DA:C2'	11:AB:1597:DT:H72	2.46	0.46
11:AB:1936:DG:H1'	11:AB:1937:DA:H5'	1.98	0.46
11:AB:2028:DG:H1'	11:AB:2029:DA:H5'	1.98	0.46
11:AB:2185:DC:H2'	11:AB:2186:DT:H72	1.97	0.46
11:AB:2191:DA:C2'	11:AB:2192:DT:H72	2.46	0.46
11:AB:2640:DA:C2'	11:AB:2641:DT:H72	2.46	0.46
11:AB:2671:DA:C2'	11:AB:2672:DT:H72	2.46	0.46
11:AB:2718:DG:H1'	11:AB:2719:DA:H5'	1.98	0.46
11:AB:3124:DG:H1'	11:AB:3125:DA:H5'	1.98	0.46
11:AB:3400:DA:C2'	11:AB:3401:DT:H72	2.46	0.46
11:AB:3751:DA:C2'	11:AB:3752:DT:H72	2.46	0.46
11:AB:3926:DA:C2'	11:AB:3927:DT:H72	2.46	0.46
11:AB:3982:DA:C2'	11:AB:3983:DT:H72	2.46	0.46
11:AB:4021:DG:H1'	11:AB:4022:DA:H5'	1.98	0.46
11:AB:4202:DG:H2''	11:AB:4203:DC:O5'	2.13	0.46
11:AB:4629:DG:H2''	11:AB:4630:DC:O5'	2.13	0.46
11:AB:4683:DG:H1'	11:AB:4684:DA:H5'	1.98	0.46
11:AB:4784:DG:H2''	11:AB:4785:DC:O5'	2.13	0.46
11:AB:5005:DG:H1'	11:AB:5006:DA:H5'	1.98	0.46
11:AB:5066:DG:H1'	11:AB:5067:DA:H5'	1.98	0.46
11:AB:5192:DG:H1'	11:AB:5193:DA:H5'	1.98	0.46
11:AB:5907:DG:H2''	11:AB:5908:DC:O5'	2.13	0.46
11:AB:5951:DA:C2'	11:AB:5952:DT:H72	2.46	0.46
11:AB:5968:DA:C2'	11:AB:5969:DT:H72	2.46	0.46
11:AB:5977:DG:H1'	11:AB:5978:DA:H5'	1.98	0.46
11:AB:6042:DG:H2''	11:AB:6043:DC:O5'	2.13	0.46
11:AB:6177:DG:H1'	11:AB:6178:DA:H5'	1.98	0.46
11:AB:6214:DA:C2'	11:AB:6215:DT:H72	2.46	0.46
11:AB:6452:DA:C2'	11:AB:6453:DT:H72	2.46	0.46
11:AB:6476:DC:H2'	11:AB:6477:DT:H72	1.97	0.46
11:AB:6541:DA:C2'	11:AB:6542:DT:H72	2.46	0.46
11:AB:6784:DA:C2'	11:AB:6785:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6893:DG:H1'	11:AB:6894:DA:H5'	1.98	0.46
11:AB:7006:DA:C2'	11:AB:7007:DT:H72	2.46	0.46
18:B5:26:DA:C2'	18:B5:27:DT:H72	2.46	0.46
21:B8:16:DG:H1'	21:B8:17:DA:H5'	1.97	0.46
24:BC:28:DG:H1'	24:BC:29:DA:H5'	1.98	0.46
34:CA:5:DA:C2'	34:CA:6:DT:H72	2.46	0.46
49:E2:10:DA:C2'	49:E2:11:DT:H72	2.46	0.46
54:E8:5:DG:H2''	54:E8:6:DC:O5'	2.13	0.46
54:E8:10:DA:C2'	54:E8:11:DT:H72	2.46	0.46
67:FA:3:DG:H1'	67:FA:4:DA:H5'	1.98	0.46
83:H3:19:DG:H1'	83:H3:20:DA:H5'	1.97	0.46
85:H6:1:DA:C2'	85:H6:2:DT:H72	2.46	0.46
85:H6:5:DG:H1'	85:H6:6:DA:H5'	1.98	0.46
88:H9:4:DT:H72	190:R9:25:DA:C2'	2.46	0.46
94:I3:43:DG:H1'	94:I3:44:DA:H5'	1.98	0.46
101:IC:7:DA:C2'	101:IC:8:DT:H72	2.46	0.46
102:ID:6:DA:C2'	102:ID:7:DT:H72	2.46	0.46
103:J1:15:DA:C2'	103:J1:16:DT:H72	2.46	0.46
109:J8:50:DA:C2'	109:J8:51:DT:H72	2.46	0.46
114:K1:36:DA:C2'	114:K1:37:DT:H72	2.46	0.46
127:L3:8:DA:C2'	127:L3:9:DT:H72	2.46	0.46
130:L7:1:DG:H1'	130:L7:2:DA:H5'	1.97	0.46
135:LD:21:DA:C2'	135:LD:22:DT:H72	2.46	0.46
144:MC:1:DG:H1'	144:MC:2:DA:H5'	1.98	0.46
154:NC:14:DA:C2'	154:NC:15:DT:H72	2.46	0.46
158:O5:39:DA:C2'	158:O5:40:DT:H72	2.46	0.46
165:OD:30:DA:C2'	165:OD:31:DT:H72	2.46	0.46
167:P3:11:DA:C2'	167:P3:12:DT:H72	2.46	0.46
171:P8:28:DA:C2'	171:P8:29:DT:H72	2.46	0.46
173:PA:15:DA:C2'	173:PA:16:DT:H72	2.46	0.46
181:Q9:2:DG:H1'	181:Q9:3:DA:H5'	1.98	0.46
183:QC:19:DG:H1'	183:QC:20:DA:H5'	1.98	0.46
188:R7:8:DG:H2''	188:R7:9:DC:O5'	2.13	0.46
189:R8:31:DG:H1'	189:R8:32:DA:H5'	1.98	0.46
197:S7:6:DG:H2''	197:S7:7:DC:O5'	2.13	0.46
198:S8:34:DG:H1'	198:S8:35:DA:H5'	1.98	0.46
198:S8:39:DA:C2'	198:S8:40:DT:H72	2.46	0.46
200:SA:6:DG:H2''	200:SA:7:DC:O5'	2.13	0.46
228:VC:1:DA:C2'	228:VC:2:DT:H72	2.46	0.46
228:VC:35:DG:H1'	228:VC:36:DA:H5'	1.98	0.46
230:W3:19:DG:H1'	230:W3:20:DA:H5'	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
238:X9:39:DA:C2'	238:X9:40:DT:H72	2.46	0.46
4:A4:21:DA:C2'	4:A4:22:DT:H72	2.46	0.45
10:AA:6:DA:C2'	10:AA:7:DT:H72	2.46	0.45
11:AB:193:DA:C2'	11:AB:194:DT:H72	2.46	0.45
11:AB:729:DA:C2'	11:AB:730:DT:H72	2.46	0.45
11:AB:792:DG:H1'	11:AB:793:DA:H5'	1.98	0.45
11:AB:1360:DA:C2'	11:AB:1361:DT:H72	2.46	0.45
11:AB:1456:DA:C2'	11:AB:1457:DT:H72	2.46	0.45
11:AB:1549:DA:C2'	11:AB:1550:DT:H72	2.46	0.45
11:AB:1652:DA:C2'	11:AB:1653:DT:H72	2.46	0.45
11:AB:1715:DA:C2'	11:AB:1716:DT:H72	2.46	0.45
11:AB:1758:DA:C2'	11:AB:1759:DT:H72	2.46	0.45
11:AB:1875:DG:H1'	11:AB:1876:DA:H5'	1.98	0.45
11:AB:1990:DA:C2'	11:AB:1991:DT:H72	2.46	0.45
11:AB:2035:DG:H2''	11:AB:2036:DC:O5'	2.13	0.45
11:AB:2377:DA:C2'	11:AB:2378:DT:H72	2.46	0.45
11:AB:2487:DA:C2'	11:AB:2488:DT:H72	2.46	0.45
11:AB:2922:DA:C2'	11:AB:2923:DT:H72	2.46	0.45
11:AB:3221:DA:C2'	11:AB:3222:DT:H72	2.46	0.45
11:AB:3230:DG:H1'	11:AB:3231:DA:H5'	1.98	0.45
11:AB:3289:DG:H1'	11:AB:3290:DA:H5'	1.98	0.45
11:AB:3381:DG:H1'	11:AB:3382:DA:H5'	1.97	0.45
11:AB:3421:DG:H1'	11:AB:3422:DA:H5'	1.98	0.45
11:AB:3670:DA:C2'	11:AB:3671:DT:H72	2.46	0.45
11:AB:4336:DG:H1'	11:AB:4337:DA:H5'	1.98	0.45
11:AB:4358:DG:H1'	11:AB:4359:DA:H5'	1.98	0.45
11:AB:4489:DG:H2''	11:AB:4490:DC:O5'	2.13	0.45
11:AB:4796:DA:C2'	11:AB:4797:DT:H72	2.46	0.45
11:AB:4977:DA:C2'	11:AB:4978:DT:H72	2.46	0.45
11:AB:5014:DA:C2'	11:AB:5015:DT:H72	2.46	0.45
11:AB:5088:DA:C2'	11:AB:5089:DT:H72	2.46	0.45
11:AB:5117:DA:C2'	11:AB:5118:DT:H72	2.46	0.45
11:AB:5172:DA:C2'	11:AB:5173:DT:H72	2.46	0.45
11:AB:5285:DA:C2'	11:AB:5286:DT:H72	2.46	0.45
11:AB:5323:DG:H2''	11:AB:5324:DC:O5'	2.13	0.45
11:AB:5400:DA:C2'	11:AB:5401:DT:H72	2.46	0.45
11:AB:5428:DA:C2'	11:AB:5429:DT:H72	2.46	0.45
11:AB:5638:DA:C2'	11:AB:5639:DT:H72	2.46	0.45
11:AB:5875:DG:H1'	11:AB:5876:DA:H5'	1.98	0.45
11:AB:5912:DA:C2'	11:AB:5913:DT:H72	2.46	0.45
11:AB:6037:DA:C2'	11:AB:6038:DT:H72	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6482:DA:C2'	11:AB:6483:DT:H72	2.46	0.45
11:AB:6507:DA:C2'	11:AB:6508:DT:H72	2.46	0.45
11:AB:6545:DA:C2'	11:AB:6546:DT:H72	2.46	0.45
11:AB:6630:DG:H2''	11:AB:6631:DC:O5'	2.13	0.45
11:AB:6750:DG:H1'	11:AB:6751:DA:H5'	1.98	0.45
11:AB:6940:DG:H2''	11:AB:6941:DC:O5'	2.13	0.45
13:AD:33:DG:H2''	13:AD:34:DC:O5'	2.13	0.45
16:B3:21:DA:C2'	16:B3:22:DT:H72	2.46	0.45
22:B9:45:DG:H1'	22:B9:46:DA:H5'	1.98	0.45
22:B9:50:DG:H1'	22:B9:51:DA:H5'	1.97	0.45
23:BA:21:DA:C2'	23:BA:22:DT:H72	2.46	0.45
24:BC:17:DA:C2'	24:BC:18:DT:H72	2.46	0.45
29:C5:7:DA:C2'	29:C5:8:DT:H72	2.46	0.45
32:C8:32:DG:H1'	32:C8:33:DA:H5'	1.98	0.45
36:CD:15:DA:C2'	36:CD:16:DT:H72	2.46	0.45
39:D3:16:DA:C2'	39:D3:17:DT:H72	2.46	0.45
39:D3:20:DG:H1'	39:D3:21:DA:H5'	1.98	0.45
52:E6:28:DG:H1'	52:E6:29:DA:H5'	1.97	0.45
59:F1:5:DA:C2'	59:F1:6:DT:H72	2.46	0.45
62:F5:12:DA:C2'	62:F5:13:DT:H72	2.46	0.45
64:F7:5:DA:C2'	64:F7:6:DT:H72	2.46	0.45
74:G6:24:DA:C2'	74:G6:25:DT:H72	2.46	0.45
81:H1:17:DA:C2'	81:H1:18:DT:H72	2.46	0.45
82:H2:49:DA:C2'	82:H2:50:DT:H72	2.46	0.45
86:H7:7:DA:C2'	86:H7:8:DT:H72	2.46	0.45
89:HA:14:DA:C2'	89:HA:15:DT:H72	2.46	0.45
91:HD:22:DG:H1'	91:HD:23:DA:H5'	1.98	0.45
94:I3:23:DA:C2'	94:I3:24:DT:H72	2.46	0.45
94:I3:29:DG:H1'	94:I3:30:DA:H5'	1.98	0.45
96:I6:3:DG:H2''	96:I6:4:DC:O5'	2.13	0.45
98:I8:10:DA:C2'	98:I8:11:DT:H72	2.46	0.45
98:I8:35:DG:H1'	98:I8:36:DA:H5'	1.98	0.45
101:IC:13:DG:H1'	101:IC:14:DA:H5'	1.97	0.45
107:J6:25:DA:C2'	107:J6:26:DT:H72	2.46	0.45
109:J8:53:DG:H2''	109:J8:54:DC:O5'	2.13	0.45
114:K1:31:DG:H1'	114:K1:32:DA:H5'	1.98	0.45
117:K5:5:DA:C2'	117:K5:6:DT:H72	2.46	0.45
117:K5:33:DA:C2'	117:K5:34:DT:H72	2.46	0.45
119:K7:36:DA:C2'	119:K7:37:DT:H72	2.46	0.45
125:L1:10:DG:H1'	125:L1:11:DA:H5'	1.98	0.45
126:L2:14:DA:C2'	126:L2:15:DT:H72	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
130:L7:53:DA:C2'	130:L7:54:DT:H72	2.46	0.45
137:M3:15:DA:C2'	137:M3:16:DT:H72	2.46	0.45
141:M8:13:DA:C2'	141:M8:14:DT:H72	2.46	0.45
142:M9:1:DG:H1'	142:M9:2:DA:H5'	1.98	0.45
145:MD:20:DA:C2'	145:MD:21:DT:H72	2.46	0.45
147:N3:2:DG:H1'	147:N3:3:DA:H5'	1.98	0.45
154:NC:11:DA:C2'	154:NC:12:DT:H72	2.46	0.45
156:O2:45:DG:H2''	156:O2:46:DC:O5'	2.13	0.45
169:P6:16:DG:H1'	169:P6:17:DA:H5'	1.98	0.45
170:P7:21:DA:C2'	170:P7:22:DT:H72	2.46	0.45
185:R2:11:DG:H2''	185:R2:12:DC:O5'	2.13	0.45
189:R8:1:DA:H5'	210:TC:30:DG:H1'	1.98	0.45
194:S2:5:DG:H1'	194:S2:6:DA:H5'	1.97	0.45
197:S7:18:DA:C2'	197:S7:19:DT:H72	2.46	0.45
204:T3:24:DG:H2''	204:T3:25:DC:O5'	2.13	0.45
206:T7:23:DG:H2''	206:T7:24:DC:O5'	2.13	0.45
211:TD:4:DA:C2'	211:TD:5:DT:H72	2.46	0.45
214:U5:1:DA:C2'	214:U5:2:DT:H72	2.46	0.45
219:UC:13:DG:H1'	219:UC:14:DA:H5'	1.97	0.45
222:V3:5:DA:C2'	222:V3:6:DT:H72	2.46	0.45
230:W3:1:DA:C2'	230:W3:2:DT:H72	2.46	0.45
234:W9:12:DG:H1'	234:W9:13:DA:H5'	1.98	0.45
2:A2:23:DG:H1'	2:A2:24:DA:H5'	1.98	0.45
7:A7:21:DA:C2'	7:A7:22:DT:H72	2.46	0.45
11:AB:20:DG:H2''	11:AB:21:DC:O5'	2.13	0.45
11:AB:73:DA:C2'	11:AB:74:DT:H72	2.46	0.45
11:AB:94:DA:C2'	11:AB:95:DT:H72	2.46	0.45
11:AB:152:DG:H1'	11:AB:153:DA:H5'	1.98	0.45
11:AB:164:DA:C2'	11:AB:165:DT:H72	2.46	0.45
11:AB:303:DG:H1'	11:AB:304:DA:H5'	1.98	0.45
11:AB:574:DC:H2'	11:AB:575:DT:H72	1.97	0.45
11:AB:735:DG:H1'	11:AB:736:DA:H5'	1.98	0.45
11:AB:1083:DG:H1'	11:AB:1084:DA:H5'	1.98	0.45
11:AB:1141:DA:C2'	11:AB:1142:DT:H72	2.46	0.45
11:AB:1155:DG:H1'	11:AB:1156:DA:H5'	1.98	0.45
11:AB:1457:DT:C6	11:AB:1458:DT:H72	2.51	0.45
11:AB:1762:DA:C2'	11:AB:1763:DT:H72	2.46	0.45
11:AB:1860:DA:C2'	11:AB:1861:DT:H72	2.46	0.45
11:AB:2006:DT:H72	11:AB:5913:DT:C6	2.51	0.45
11:AB:2125:DA:C2'	11:AB:2126:DT:H72	2.46	0.45
11:AB:2404:DA:C2'	11:AB:2405:DT:H72	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2473:DA:C2'	11:AB:2474:DT:H72	2.46	0.45
11:AB:2572:DA:C2'	11:AB:2573:DT:H72	2.46	0.45
11:AB:2574:DA:C2'	11:AB:2575:DT:H72	2.46	0.45
11:AB:2749:DA:C2'	11:AB:2750:DT:H72	2.46	0.45
11:AB:2791:DA:C2'	11:AB:2792:DT:H72	2.46	0.45
11:AB:2990:DA:C2'	11:AB:2991:DT:H72	2.46	0.45
11:AB:3119:DA:C2'	11:AB:3120:DT:H72	2.46	0.45
11:AB:3126:DA:C2'	11:AB:3127:DT:H72	2.46	0.45
11:AB:3131:DA:C2'	11:AB:3132:DT:H72	2.46	0.45
11:AB:3173:DA:C2'	11:AB:3174:DT:H72	2.46	0.45
11:AB:3558:DA:C2'	11:AB:3559:DT:H72	2.46	0.45
11:AB:3579:DT:H72	11:AB:4754:DT:C6	2.51	0.45
11:AB:3659:DA:C2'	11:AB:3660:DT:H72	2.46	0.45
11:AB:4431:DG:H1'	11:AB:4432:DA:H5'	1.98	0.45
11:AB:4459:DT:C6	11:AB:4460:DT:H72	2.51	0.45
11:AB:4558:DG:H1'	11:AB:4559:DA:H5'	1.97	0.45
11:AB:4572:DG:H2''	11:AB:4573:DC:O5'	2.13	0.45
11:AB:5072:DG:H1'	11:AB:5073:DA:H5'	1.98	0.45
11:AB:5260:DG:H2''	11:AB:5261:DC:O5'	2.13	0.45
11:AB:5363:DT:C6	11:AB:5364:DT:H72	2.51	0.45
11:AB:5365:DG:H2''	11:AB:5366:DC:O5'	2.13	0.45
11:AB:5425:DG:H1'	11:AB:5426:DA:H5'	1.98	0.45
11:AB:5497:DG:H2''	11:AB:5498:DC:O5'	2.13	0.45
11:AB:5540:DA:C2'	11:AB:5541:DT:H72	2.46	0.45
11:AB:5544:DA:C2'	11:AB:5545:DT:H72	2.46	0.45
11:AB:5669:DA:C2'	11:AB:5670:DT:H72	2.46	0.45
11:AB:5746:DT:C6	11:AB:5747:DT:H72	2.51	0.45
11:AB:5949:DG:H1'	11:AB:5950:DA:H5'	1.97	0.45
11:AB:6080:DA:C2'	11:AB:6081:DT:H72	2.46	0.45
11:AB:6170:DG:H1'	11:AB:6171:DA:H5'	1.98	0.45
11:AB:6318:DG:H1'	11:AB:6319:DA:H5'	1.98	0.45
11:AB:6365:DA:C2'	11:AB:6366:DT:H72	2.46	0.45
11:AB:6811:DA:C2'	11:AB:6812:DT:H72	2.46	0.45
11:AB:6853:DA:C2'	11:AB:6854:DT:H72	2.46	0.45
11:AB:7086:DA:C2'	11:AB:7087:DT:H72	2.46	0.45
11:AB:7110:DG:H1'	11:AB:7111:DA:H5'	1.98	0.45
14:B1:9:DG:H1'	14:B1:10:DA:H5'	1.98	0.45
14:B1:36:DA:H5'	94:I3:59:DG:H1'	1.98	0.45
15:B2:16:DG:H1'	15:B2:17:DA:H5'	1.98	0.45
22:B9:24:DG:H1'	22:B9:25:DA:H5'	1.97	0.45
24:BC:6:DG:H1'	24:BC:7:DA:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:C5:10:DG:H1'	29:C5:11:DA:H5'	1.98	0.45
30:C6:33:DG:H1'	30:C6:34:DA:H5'	1.98	0.45
30:C6:37:DG:H1'	30:C6:38:DA:H5'	1.98	0.45
35:CC:24:DA:C2'	35:CC:25:DT:H72	2.46	0.45
43:D8:40:DG:H1'	43:D8:41:DA:H5'	1.97	0.45
47:DD:34:DG:H1'	47:DD:35:DA:H5'	1.98	0.45
48:E1:5:DG:H1'	48:E1:6:DA:H5'	1.98	0.45
59:F1:18:DG:H1'	59:F1:19:DA:H5'	1.98	0.45
67:FA:27:DG:H1'	67:FA:28:DA:H5'	1.98	0.45
76:G8:7:DG:H2''	76:G8:8:DC:O5'	2.13	0.45
85:H6:29:DG:H1'	85:H6:30:DA:H5'	1.98	0.45
94:I3:17:DG:H1'	229:VD:11:DA:H5'	1.98	0.45
98:I8:37:DG:H1'	123:KC:17:DA:H5'	1.98	0.45
112:JC:18:DA:C2'	112:JC:19:DT:H72	2.46	0.45
113:JD:1:DG:H1'	113:JD:2:DA:H5'	1.98	0.45
114:K1:44:DG:H1'	114:K1:45:DA:H5'	1.98	0.45
116:K3:6:DG:H1'	116:K3:7:DA:H5'	1.98	0.45
136:M2:18:DG:H2''	136:M2:19:DC:O5'	2.13	0.45
143:MA:45:DG:H2''	143:MA:46:DC:O5'	2.13	0.45
149:N6:15:DA:C2'	149:N6:16:DT:H72	2.46	0.45
161:O8:9:DG:H1'	161:O8:10:DA:H5'	1.97	0.45
165:OD:46:DA:C2'	165:OD:47:DT:H72	2.46	0.45
169:P6:10:DG:H2''	169:P6:11:DC:O5'	2.13	0.45
182:QA:2:DG:H1'	182:QA:3:DA:H5'	1.98	0.45
184:QD:18:DA:C2'	184:QD:19:DT:H72	2.46	0.45
194:S2:15:DG:H2''	194:S2:16:DC:O5'	2.13	0.45
202:SD:21:DA:C2'	202:SD:22:DT:H72	2.46	0.45
209:TA:6:DG:H1'	209:TA:7:DA:H5'	1.98	0.45
222:V3:22:DA:C2'	222:V3:23:DT:H72	2.46	0.45
224:V7:13:DA:C2'	224:V7:14:DT:H72	2.46	0.45
224:V7:21:DG:H1'	224:V7:22:DA:H5'	1.97	0.45
225:V8:7:DA:C2'	225:V8:8:DT:H72	2.46	0.45
226:V9:2:DA:C2'	226:V9:3:DT:H72	2.46	0.45
232:W7:6:DG:H1'	232:W7:7:DA:H5'	1.98	0.45
3:A3:20:DG:H1'	3:A3:21:DA:H5'	1.97	0.45
9:A9:10:DG:H1'	9:A9:11:DA:H5'	1.97	0.45
11:AB:101:DG:H1'	11:AB:102:DA:H5'	1.97	0.45
11:AB:273:DG:H1'	11:AB:274:DA:H5'	1.97	0.45
11:AB:348:DG:H1'	11:AB:349:DA:H5'	1.98	0.45
11:AB:391:DC:H2'	11:AB:392:DT:H72	1.97	0.45
11:AB:852:DG:H2''	11:AB:853:DC:O5'	2.13	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:883:DG:H2''	11:AB:884:DC:O5'	2.13	0.45
11:AB:1751:DG:H1'	11:AB:1752:DA:H5'	1.98	0.45
11:AB:1793:DA:C2'	11:AB:1794:DT:H72	2.46	0.45
11:AB:1830:DA:C2'	11:AB:1831:DT:H72	2.46	0.45
11:AB:2145:DG:H1'	11:AB:2146:DA:H5'	1.97	0.45
11:AB:2618:DC:H2'	11:AB:2619:DT:H71	1.99	0.45
11:AB:2628:DG:H1'	11:AB:2629:DA:H5'	1.98	0.45
11:AB:2823:DC:H2'	11:AB:2824:DT:H72	1.97	0.45
11:AB:2863:DG:H1'	11:AB:2864:DA:H5'	1.98	0.45
11:AB:2986:DG:H1'	11:AB:2987:DA:H5'	1.98	0.45
11:AB:2999:DA:C2'	11:AB:3000:DT:H72	2.46	0.45
11:AB:3094:DA:C2'	11:AB:3095:DT:H72	2.46	0.45
11:AB:3115:DG:H1'	11:AB:3116:DA:H5'	1.98	0.45
11:AB:3335:DA:C2'	11:AB:3336:DT:H72	2.46	0.45
11:AB:3364:DG:H1'	11:AB:3365:DA:H5'	1.97	0.45
11:AB:3431:DA:C2'	11:AB:3432:DT:H72	2.46	0.45
11:AB:4010:DA:C2'	11:AB:4011:DT:H72	2.46	0.45
11:AB:4411:DG:H1'	11:AB:4412:DA:H5'	1.98	0.45
11:AB:4594:DC:H2'	11:AB:4595:DT:H72	1.97	0.45
11:AB:4620:DA:C2'	11:AB:4621:DT:H72	2.46	0.45
11:AB:4848:DA:C2'	11:AB:4849:DT:H72	2.46	0.45
11:AB:4917:DA:C2'	11:AB:4918:DT:H72	2.46	0.45
11:AB:5262:DG:H1'	11:AB:5263:DA:H5'	1.98	0.45
11:AB:5474:DG:H1'	11:AB:5475:DA:H5'	1.98	0.45
11:AB:5583:DG:H1'	11:AB:5584:DA:H5'	1.98	0.45
11:AB:5596:DC:H2'	11:AB:5597:DT:H72	1.97	0.45
11:AB:5930:DC:H2'	11:AB:5931:DT:H72	1.97	0.45
11:AB:5956:DG:H1'	11:AB:5957:DA:H5'	1.98	0.45
11:AB:6346:DG:H1'	11:AB:6347:DA:H5'	1.98	0.45
11:AB:6628:DG:H1'	11:AB:6629:DA:H5'	1.98	0.45
11:AB:6663:DA:C2'	11:AB:6664:DT:H72	2.46	0.45
11:AB:6771:DT:C6	11:AB:6772:DT:H72	2.51	0.45
11:AB:6810:DG:H1'	11:AB:6811:DA:H5'	1.98	0.45
11:AB:6897:DG:H1'	11:AB:6898:DA:H5'	1.97	0.45
11:AB:6966:DG:H1'	11:AB:6967:DA:H5'	1.98	0.45
12:AC:22:DG:H2''	65:F8:1:DC:O5'	2.13	0.45
13:AD:26:DG:H1'	13:AD:27:DA:H5'	1.98	0.45
14:B1:13:DA:C2'	14:B1:14:DT:H72	2.46	0.45
18:B5:34:DA:C2'	18:B5:35:DT:H72	2.46	0.45
24:BC:23:DG:H1'	24:BC:24:DA:H5'	1.98	0.45
31:C7:6:DC:H2'	31:C7:7:DT:H72	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DA:5:DA:C2'	45:DA:6:DT:H72	2.46	0.45
48:E1:7:DG:H1'	231:W5:21:DA:H5'	1.97	0.45
61:F3:10:DG:H1'	61:F3:11:DA:H5'	1.97	0.45
64:F7:3:DA:C2'	64:F7:4:DT:H72	2.46	0.45
64:F7:12:DC:H2'	64:F7:13:DT:H72	1.97	0.45
74:G6:31:DA:H5'	213:U3:14:DG:H1'	1.98	0.45
78:GA:13:DG:H1'	78:GA:14:DA:H5'	1.98	0.45
81:H1:14:DG:H1'	81:H1:15:DA:H5'	1.98	0.45
92:I1:24:DC:H2'	92:I1:25:DT:H72	1.97	0.45
93:I2:22:DG:H1'	93:I2:23:DA:H5'	1.98	0.45
93:I2:32:DA:C2'	93:I2:33:DT:H72	2.46	0.45
94:I3:33:DG:H1'	94:I3:34:DA:H5'	1.98	0.45
95:I5:30:DG:H1'	95:I5:31:DA:H5'	1.98	0.45
101:IC:8:DT:C6	101:IC:9:DT:H72	2.51	0.45
102:ID:24:DG:H1'	102:ID:25:DA:H5'	1.98	0.45
108:J7:8:DG:H1'	108:J7:9:DA:H5'	1.98	0.45
108:J7:31:DG:H1'	108:J7:32:DA:H5'	1.98	0.45
110:J9:7:DC:H2'	110:J9:8:DT:H71	1.99	0.45
111:JA:13:DG:H1'	111:JA:14:DA:H5'	1.98	0.45
113:JD:5:DG:H1'	113:JD:6:DA:H5'	1.98	0.45
124:KD:20:DA:C2'	124:KD:21:DT:H72	2.46	0.45
125:L1:1:DT:H72	137:M3:35:DA:C2'	2.46	0.45
126:L2:24:DG:H1'	126:L2:25:DA:H5'	1.97	0.45
126:L2:51:DG:H1'	126:L2:52:DA:H5'	1.98	0.45
126:L2:60:DG:H1'	188:R7:1:DA:H5'	1.98	0.45
127:L3:9:DT:C6	127:L3:10:DT:H72	2.51	0.45
130:L7:38:DG:H1'	130:L7:39:DA:H5'	1.98	0.45
136:M2:8:DG:H1'	136:M2:9:DA:H5'	1.98	0.45
138:M5:8:DA:C2'	138:M5:9:DT:H72	2.46	0.45
139:M6:4:DG:H2''	139:M6:5:DC:O5'	2.13	0.45
149:N6:26:DG:H1'	149:N6:27:DA:H5'	1.97	0.45
150:N7:20:DG:H1'	150:N7:21:DA:H5'	1.98	0.45
151:N8:2:DG:H1'	151:N8:3:DA:H5'	1.98	0.45
152:N9:39:DA:C2'	152:N9:40:DT:H72	2.46	0.45
152:N9:47:DG:H1'	152:N9:48:DA:H5'	1.98	0.45
171:P8:25:DA:C2'	171:P8:26:DT:H72	2.46	0.45
181:Q9:19:DA:H5'	234:W9:14:DG:H1'	1.98	0.45
189:R8:20:DA:C2'	189:R8:21:DT:H72	2.46	0.45
202:SD:16:DG:H1'	202:SD:17:DA:H5'	1.98	0.45
204:T3:15:DC:H2'	204:T3:16:DT:H71	1.99	0.45
206:T7:36:DG:H1'	206:T7:37:DA:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
206:T7:40:DG:H1'	206:T7:41:DA:H5'	1.98	0.45
211:TD:39:DG:H2''	211:TD:40:DC:O5'	2.13	0.45
212:U2:17:DC:H2'	212:U2:18:DT:H71	1.99	0.45
224:V7:17:DA:C2'	224:V7:18:DT:H72	2.46	0.45
226:V9:28:DG:H1'	226:V9:29:DA:H5'	1.98	0.45
228:VC:24:DG:H1'	228:VC:25:DA:H5'	1.98	0.45
230:W3:9:DG:H1'	230:W3:10:DA:H5'	1.98	0.45
230:W3:27:DA:C2'	230:W3:28:DT:H72	2.46	0.45
234:W9:16:DG:H1'	234:W9:17:DA:H5'	1.98	0.45
236:X5:9:DG:H1'	236:X5:10:DA:H5'	1.98	0.45
8:A8:5:DG:H1'	8:A8:6:DA:H5'	1.98	0.45
11:AB:82:DG:H1'	11:AB:83:DA:H5'	1.97	0.45
11:AB:140:DG:H1'	11:AB:141:DA:H5'	1.97	0.45
11:AB:433:DC:H2'	11:AB:434:DT:H72	1.97	0.45
11:AB:484:DA:C2'	11:AB:485:DT:H72	2.46	0.45
11:AB:616:DA:C2'	11:AB:617:DT:H72	2.46	0.45
11:AB:679:DC:H2'	11:AB:680:DT:H72	1.97	0.45
11:AB:906:DG:H1'	11:AB:907:DA:H5'	1.98	0.45
11:AB:1029:DG:H1'	11:AB:1030:DA:H5'	1.98	0.45
11:AB:1234:DA:C2'	11:AB:1235:DT:H72	2.46	0.45
11:AB:1312:DA:C2'	11:AB:1313:DT:H72	2.46	0.45
11:AB:1459:DG:H2''	11:AB:1460:DC:O5'	2.13	0.45
11:AB:1544:DA:C2'	11:AB:1545:DT:H72	2.46	0.45
11:AB:1989:DG:H1'	11:AB:1990:DA:H5'	1.98	0.45
11:AB:2029:DA:C2'	11:AB:2030:DT:H72	2.46	0.45
11:AB:2285:DA:C2'	11:AB:2286:DT:H72	2.46	0.45
11:AB:2611:DC:H2'	11:AB:2612:DT:H72	1.97	0.45
11:AB:2747:DA:C2'	11:AB:2748:DT:H72	2.46	0.45
11:AB:2870:DA:C2'	11:AB:2871:DT:H72	2.46	0.45
11:AB:2941:DG:H1'	11:AB:2942:DA:H5'	1.97	0.45
11:AB:2964:DA:C2'	11:AB:2965:DT:H72	2.46	0.45
11:AB:3071:DA:C2'	11:AB:3072:DT:H72	2.46	0.45
11:AB:3092:DA:C2'	11:AB:3093:DT:H72	2.46	0.45
11:AB:3275:DA:C2'	11:AB:3276:DT:H72	2.46	0.45
11:AB:3622:DC:H2'	11:AB:3623:DT:H72	1.97	0.45
11:AB:3753:DG:H1'	11:AB:3754:DA:H5'	1.97	0.45
11:AB:3822:DG:H1'	11:AB:3823:DA:H5'	1.97	0.45
11:AB:4009:DG:H1'	11:AB:4010:DA:H5'	1.98	0.45
11:AB:4271:DG:H1'	11:AB:4272:DA:H5'	1.97	0.45
11:AB:4297:DG:H2''	11:AB:4298:DC:O5'	2.13	0.45
11:AB:4778:DG:H1'	11:AB:4779:DA:H5'	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4795:DG:H1'	11:AB:4796:DA:H5'	1.98	0.45
11:AB:5012:DG:H1'	11:AB:5013:DA:H5'	1.98	0.45
11:AB:5070:DG:H2''	11:AB:5071:DC:O5'	2.13	0.45
11:AB:5129:DG:H1'	11:AB:5130:DA:H5'	1.97	0.45
11:AB:5152:DG:H1'	11:AB:5153:DA:H5'	1.98	0.45
11:AB:5304:DG:H1'	11:AB:5305:DA:H5'	1.98	0.45
11:AB:5421:DG:H1'	11:AB:5422:DA:H5'	1.98	0.45
11:AB:5536:DA:C2'	11:AB:5537:DT:H72	2.46	0.45
11:AB:5611:DG:H1'	11:AB:5612:DA:H5'	1.98	0.45
11:AB:5641:DG:H2''	11:AB:5642:DC:O5'	2.13	0.45
11:AB:5761:DG:H1'	11:AB:5762:DA:H5'	1.97	0.45
11:AB:5879:DA:C2'	11:AB:5880:DT:H72	2.46	0.45
11:AB:5903:DA:C2'	11:AB:5904:DT:H72	2.46	0.45
11:AB:5909:DG:H1'	11:AB:5910:DA:H5'	1.98	0.45
11:AB:6006:DA:C2'	11:AB:6007:DT:H72	2.46	0.45
11:AB:6035:DA:C2'	11:AB:6036:DT:H72	2.46	0.45
11:AB:6103:DC:H2'	11:AB:6104:DT:H71	1.99	0.45
11:AB:6115:DG:H1'	11:AB:6116:DA:H5'	1.98	0.45
11:AB:6151:DG:H1'	11:AB:6152:DA:H5'	1.97	0.45
11:AB:6267:DA:C2'	11:AB:6268:DT:H72	2.46	0.45
11:AB:6413:DG:H2''	11:AB:6414:DC:O5'	2.13	0.45
11:AB:6445:DG:H1'	11:AB:6446:DA:H5'	1.98	0.45
11:AB:6782:DA:C2'	11:AB:6783:DT:H72	2.46	0.45
17:B4:16:DG:H1'	17:B4:17:DA:H5'	1.98	0.45
19:B6:14:DG:H1'	149:N6:45:DA:H5'	1.98	0.45
22:B9:1:DA:C2'	22:B9:2:DT:H72	2.46	0.45
22:B9:6:DC:H2'	22:B9:7:DT:H71	1.98	0.45
25:BD:10:DG:H1'	25:BD:11:DA:H5'	1.98	0.45
27:C2:21:DC:H2'	27:C2:22:DT:H72	1.97	0.45
34:CA:11:DG:H1'	34:CA:12:DA:H5'	1.97	0.45
38:D2:1:DG:H1'	38:D2:2:DA:H5'	1.97	0.45
46:DC:21:DC:H2'	46:DC:22:DT:H71	1.99	0.45
58:ED:19:DG:H1'	58:ED:20:DA:H5'	1.97	0.45
67:FA:29:DC:H2'	67:FA:30:DT:H72	1.97	0.45
72:G3:8:DA:C2'	72:G3:9:DT:H72	2.46	0.45
77:G9:13:DA:C2'	77:G9:14:DT:H72	2.46	0.45
89:HA:5:DA:C2'	89:HA:6:DT:H72	2.46	0.45
102:ID:2:DG:H1'	102:ID:3:DA:H5'	1.98	0.45
103:J1:9:DG:H1'	103:J1:10:DA:H5'	1.98	0.45
107:J6:12:DG:H1'	107:J6:13:DA:H5'	1.98	0.45
111:JA:15:DC:H2'	111:JA:16:DT:H72	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
114:K1:34:DA:C2'	114:K1:35:DT:H72	2.46	0.45
121:K9:5:DA:C2'	121:K9:6:DT:H72	2.46	0.45
122:KA:51:DA:C2'	155:ND:1:DT:H72	2.46	0.45
141:M8:10:DA:C2'	141:M8:11:DT:H72	2.46	0.45
148:N5:5:DG:H1'	148:N5:6:DA:H5'	1.98	0.45
153:NA:17:DG:H1'	153:NA:18:DA:H5'	1.98	0.45
154:NC:6:DG:H1'	154:NC:7:DA:H5'	1.98	0.45
158:O5:33:DA:C2'	158:O5:34:DT:H72	2.46	0.45
165:OD:32:DG:H1'	165:OD:33:DA:H5'	1.97	0.45
170:P7:17:DG:H1'	170:P7:18:DA:H5'	1.97	0.45
188:R7:31:DC:H2'	188:R7:32:DT:H71	1.99	0.45
194:S2:18:DG:H1'	194:S2:19:DA:H5'	1.98	0.45
195:S3:27:DA:C2'	195:S3:28:DT:H72	2.46	0.45
203:T2:26:DG:H1'	203:T2:27:DA:H5'	1.97	0.45
207:T8:17:DC:H2'	207:T8:18:DT:H71	1.99	0.45
208:T9:5:DA:C2'	208:T9:6:DT:H72	2.46	0.45
214:U5:22:DC:H2'	214:U5:23:DT:H72	1.97	0.45
236:X5:24:DA:C2'	236:X5:25:DT:H72	2.46	0.45
1:A1:55:DA:C2'	1:A1:56:DT:H72	2.46	0.45
4:A4:23:DG:H1'	4:A4:24:DA:H5'	1.98	0.45
7:A7:28:DT:C6	7:A7:29:DT:H72	2.51	0.45
7:A7:37:DC:H2'	7:A7:38:DT:H71	1.99	0.45
8:A8:10:DG:H1'	8:A8:11:DA:H5'	1.97	0.45
8:A8:17:DA:C2'	8:A8:18:DT:H72	2.46	0.45
9:A9:8:DG:H1'	9:A9:9:DA:H5'	1.97	0.45
11:AB:124:DG:H1'	11:AB:125:DA:H5'	1.98	0.45
11:AB:138:DG:H1'	11:AB:139:DA:H5'	1.98	0.45
11:AB:251:DA:C2'	11:AB:252:DT:H72	2.46	0.45
11:AB:399:DG:H1'	11:AB:400:DA:H5'	1.98	0.45
11:AB:474:DG:H1'	11:AB:475:DA:H5'	1.98	0.45
11:AB:500:DC:H2'	11:AB:501:DT:H71	1.99	0.45
11:AB:601:DC:H2'	11:AB:602:DT:H71	1.98	0.45
11:AB:628:DG:H1'	11:AB:629:DA:H5'	1.98	0.45
11:AB:934:DC:H2'	11:AB:935:DT:H72	1.97	0.45
11:AB:989:DG:H1'	11:AB:990:DA:H5'	1.98	0.45
11:AB:1024:DA:C2'	11:AB:1025:DT:H72	2.46	0.45
11:AB:1072:DC:H2'	11:AB:1073:DT:H72	1.97	0.45
11:AB:1110:DA:C2'	11:AB:1111:DT:H72	2.46	0.45
11:AB:1382:DA:C2'	11:AB:1383:DT:H72	2.46	0.45
11:AB:1416:DG:H1'	11:AB:1417:DA:H5'	1.98	0.45
11:AB:1427:DA:C2'	11:AB:1428:DT:H72	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1531:DG:H1'	11:AB:1532:DA:H5'	1.98	0.45
11:AB:1565:DA:C2'	11:AB:1566:DT:H72	2.46	0.45
11:AB:1598:DC:H2'	11:AB:1599:DT:H71	1.99	0.45
11:AB:1938:DA:C2'	11:AB:1939:DT:H72	2.46	0.45
11:AB:2242:DC:H2'	11:AB:2243:DT:H71	1.99	0.45
11:AB:2271:DA:C2'	11:AB:2272:DT:H72	2.46	0.45
11:AB:2486:DG:H1'	11:AB:2487:DA:H5'	1.98	0.45
11:AB:2623:DA:C2'	11:AB:2624:DT:H72	2.46	0.45
11:AB:2793:DG:H1'	11:AB:2794:DA:H5'	1.98	0.45
11:AB:2888:DA:C2'	11:AB:2889:DT:H72	2.46	0.45
11:AB:3011:DC:H2'	11:AB:3012:DT:H71	1.99	0.45
11:AB:3391:DG:H1'	11:AB:3392:DA:H5'	1.98	0.45
11:AB:3793:DC:H2'	11:AB:3794:DT:H71	1.99	0.45
11:AB:3796:DG:H1'	11:AB:3797:DA:H5'	1.98	0.45
11:AB:3896:DG:H1'	11:AB:3897:DA:H5'	1.98	0.45
11:AB:4119:DC:H2'	11:AB:4120:DT:H72	1.97	0.45
11:AB:4124:DC:H2'	11:AB:4125:DT:H71	1.99	0.45
11:AB:4159:DC:H2'	11:AB:4160:DT:H71	1.99	0.45
11:AB:4352:DA:H2'	11:AB:4353:DT:H71	1.99	0.45
11:AB:4362:DC:H2'	11:AB:4363:DT:H71	1.99	0.45
11:AB:4433:DT:C6	11:AB:4434:DT:H72	2.51	0.45
11:AB:4590:DG:H2''	11:AB:4591:DC:O5'	2.13	0.45
11:AB:4827:DC:H2'	11:AB:4828:DT:H71	1.99	0.45
11:AB:4951:DG:H2''	11:AB:4952:DC:O5'	2.13	0.45
11:AB:5299:DG:H1'	11:AB:5300:DA:H5'	1.98	0.45
11:AB:5403:DA:C2'	11:AB:5404:DT:H72	2.46	0.45
11:AB:5441:DG:H1'	11:AB:5442:DA:H5'	1.98	0.45
11:AB:5456:DA:C2'	11:AB:5457:DT:H72	2.46	0.45
11:AB:5564:DA:C2'	11:AB:5565:DT:H72	2.46	0.45
11:AB:5686:DG:H1'	11:AB:5687:DA:H5'	1.98	0.45
11:AB:5783:DC:H2'	11:AB:5784:DT:H72	1.97	0.45
11:AB:5804:DA:C2'	11:AB:5805:DT:H72	2.46	0.45
11:AB:6075:DC:H2'	11:AB:6076:DT:H72	1.97	0.45
11:AB:6131:DC:H2'	11:AB:6132:DT:H71	1.99	0.45
11:AB:6168:DG:H2''	11:AB:6169:DC:O5'	2.13	0.45
11:AB:6320:DA:C2'	11:AB:6321:DT:H72	2.46	0.45
11:AB:6395:DC:H2'	11:AB:6396:DT:H71	1.99	0.45
11:AB:6417:DT:C6	11:AB:6418:DT:H72	2.51	0.45
11:AB:6454:DG:H1'	11:AB:6455:DA:H5'	1.98	0.45
11:AB:6616:DG:H1'	11:AB:6617:DA:H5'	1.98	0.45
11:AB:6626:DA:C2'	11:AB:6627:DT:H72	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6736:DC:H2'	11:AB:6737:DT:H71	1.99	0.45
11:AB:6949:DG:H1'	11:AB:6950:DA:H5'	1.98	0.45
11:AB:6976:DA:C2'	11:AB:6977:DT:H72	2.46	0.45
11:AB:7193:DG:H1'	11:AB:7194:DA:H5'	1.98	0.45
19:B6:15:DG:H1'	19:B6:16:DA:H5'	1.97	0.45
22:B9:20:DC:H2'	22:B9:21:DT:H71	1.99	0.45
23:BA:28:DT:C6	23:BA:29:DT:H72	2.51	0.45
37:D1:15:DG:H1'	37:D1:16:DA:H5'	1.98	0.45
44:D9:24:DG:H1'	44:D9:25:DA:H5'	1.98	0.45
47:DD:21:DA:C2'	47:DD:22:DT:H72	2.46	0.45
55:E9:38:DG:H1'	55:E9:39:DA:H5'	1.98	0.45
61:F3:23:DG:H1'	61:F3:24:DA:H5'	1.98	0.45
64:F7:7:DC:H2'	64:F7:8:DT:H71	1.99	0.45
74:G6:7:DG:H1'	74:G6:8:DA:H5'	1.98	0.45
84:H5:36:DC:H2'	84:H5:37:DT:H71	1.99	0.45
85:H6:31:DG:H1'	85:H6:32:DA:H5'	1.98	0.45
89:HA:28:DG:H1'	89:HA:29:DA:H5'	1.97	0.45
90:HC:25:DG:H1'	90:HC:26:DA:H5'	1.97	0.45
93:I2:43:DC:H2'	93:I2:44:DT:H71	1.99	0.45
95:I5:38:DG:H1'	95:I5:39:DA:H5'	1.98	0.45
107:J6:36:DT:H72	165:OD:21:DA:C2'	2.46	0.45
114:K1:6:DA:C2'	114:K1:7:DT:H72	2.46	0.45
116:K3:12:DA:C2'	116:K3:13:DT:H72	2.46	0.45
117:K5:17:DG:H1'	117:K5:18:DA:H5'	1.98	0.45
124:KD:19:DG:H1'	124:KD:20:DA:H5'	1.98	0.45
129:L6:25:DG:H1'	129:L6:26:DA:H5'	1.98	0.45
137:M3:17:DG:H1'	137:M3:18:DA:H5'	1.98	0.45
138:M5:6:DG:H1'	138:M5:7:DA:H5'	1.98	0.45
138:M5:32:DG:H1'	138:M5:33:DA:H5'	1.98	0.45
140:M7:4:DA:C2'	140:M7:5:DT:H72	2.46	0.45
140:M7:9:DC:H2'	140:M7:10:DT:H71	1.99	0.45
141:M8:19:DC:H2'	141:M8:20:DT:H71	1.99	0.45
142:M9:17:DT:H72	173:PA:14:DA:C2'	2.46	0.45
155:ND:14:DG:H1'	155:ND:15:DA:H5'	1.98	0.45
156:O2:19:DG:H1'	156:O2:20:DA:H5'	1.98	0.45
161:O8:5:DT:H72	183:QC:23:DA:C2'	2.46	0.45
172:P9:20:DG:H2''	172:P9:21:DC:O5'	2.13	0.45
176:Q2:9:DA:C2'	176:Q2:10:DT:H72	2.46	0.45
180:Q8:8:DA:C2'	180:Q8:9:DT:H72	2.46	0.45
190:R9:33:DA:C2'	190:R9:34:DT:H72	2.46	0.45
206:T7:55:DG:H1'	206:T7:56:DA:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
207:T8:14:DG:H1'	207:T8:15:DA:H5'	1.98	0.45
212:U2:8:DA:C2'	212:U2:9:DT:H72	2.46	0.45
213:U3:20:DC:H2'	213:U3:21:DT:H71	1.99	0.45
218:UA:11:DG:H1'	218:UA:12:DA:H5'	1.98	0.45
219:UC:31:DG:H1'	219:UC:32:DA:H5'	1.98	0.45
222:V3:21:DG:H1'	222:V3:22:DA:H5'	1.98	0.45
228:VC:36:DA:C2'	228:VC:37:DT:H72	2.46	0.45
7:A7:8:DG:H1'	7:A7:9:DA:H5'	1.98	0.45
7:A7:9:DA:H2'	7:A7:10:DT:H71	1.99	0.45
8:A8:22:DC:H2'	8:A8:23:DT:H71	1.99	0.45
9:A9:1:DT:H72	67:FA:21:DA:C2'	2.46	0.45
11:AB:50:DA:C2'	11:AB:51:DT:H72	2.46	0.45
11:AB:321:DG:H2''	11:AB:322:DC:O5'	2.13	0.45
11:AB:397:DC:H2'	11:AB:398:DT:H71	1.99	0.45
11:AB:418:DC:H2'	11:AB:419:DT:H71	1.99	0.45
11:AB:582:DG:H1'	11:AB:583:DA:H5'	1.98	0.45
11:AB:835:DC:H2'	11:AB:836:DT:H72	1.97	0.45
11:AB:931:DG:H2''	11:AB:932:DC:O5'	2.13	0.45
11:AB:1162:DC:H2'	11:AB:1163:DT:H71	1.99	0.45
11:AB:1374:DA:C2'	11:AB:1375:DT:H72	2.46	0.45
11:AB:1497:DA:H2'	11:AB:1498:DT:H71	1.99	0.45
11:AB:1502:DC:H2'	11:AB:1503:DT:H72	1.97	0.45
11:AB:1523:DT:C6	11:AB:1524:DT:H72	2.51	0.45
11:AB:1786:DC:H2'	11:AB:1787:DT:H71	1.99	0.45
11:AB:1837:DA:H2'	11:AB:1838:DT:H71	1.99	0.45
11:AB:1915:DC:H2'	11:AB:1916:DT:H71	1.99	0.45
11:AB:2058:DT:H72	11:AB:5777:DA:C2'	2.46	0.45
11:AB:2124:DG:H1'	11:AB:2125:DA:H5'	1.98	0.45
11:AB:2214:DG:H1'	11:AB:2215:DA:H5'	1.98	0.45
11:AB:2313:DG:H1'	11:AB:2314:DA:H5'	1.98	0.45
11:AB:2383:DC:H2'	11:AB:2384:DT:H71	1.99	0.45
11:AB:2420:DT:C6	11:AB:2421:DT:H72	2.51	0.45
11:AB:2425:DC:H2'	11:AB:2426:DT:H71	1.99	0.45
11:AB:2441:DT:C6	11:AB:2442:DT:H72	2.51	0.45
11:AB:2489:DG:H1'	11:AB:2490:DA:H5'	1.98	0.45
11:AB:2510:DG:H1'	11:AB:2511:DA:H5'	1.98	0.45
11:AB:2540:DG:H1'	11:AB:2541:DA:H5'	1.98	0.45
11:AB:2545:DG:H1'	11:AB:2546:DA:H5'	1.97	0.45
11:AB:2564:DA:C2'	11:AB:2565:DT:H72	2.46	0.45
11:AB:2677:DA:H2'	11:AB:2678:DT:H71	1.99	0.45
11:AB:2826:DG:H1'	11:AB:2827:DA:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2920:DG:H1'	11:AB:2921:DA:H5'	1.98	0.45
11:AB:3147:DT:C6	11:AB:3148:DT:H72	2.51	0.45
11:AB:3365:DA:C2'	11:AB:3366:DT:H72	2.46	0.45
11:AB:3388:DA:C2'	11:AB:3389:DT:H72	2.46	0.45
11:AB:3406:DG:H1'	11:AB:3407:DA:H5'	1.98	0.45
11:AB:3544:DG:H1'	11:AB:3545:DA:H5'	1.98	0.45
11:AB:3710:DA:H2'	11:AB:3711:DT:H71	1.99	0.45
11:AB:3799:DA:C2'	11:AB:3800:DT:H72	2.46	0.45
11:AB:3868:DA:C2'	11:AB:3869:DT:H72	2.46	0.45
11:AB:3892:DG:H1'	11:AB:3893:DA:H5'	1.98	0.45
11:AB:3973:DA:C2'	11:AB:3974:DT:H72	2.46	0.45
11:AB:4005:DC:H2'	11:AB:4006:DT:H71	1.99	0.45
11:AB:4748:DG:H1'	11:AB:4749:DA:H5'	1.98	0.45
11:AB:4789:DG:H1'	11:AB:4790:DA:H5'	1.98	0.45
11:AB:4801:DG:H1'	11:AB:4802:DA:H5'	1.98	0.45
11:AB:4892:DG:H1'	11:AB:4893:DA:H5'	1.98	0.45
11:AB:5079:DC:H2'	11:AB:5080:DT:H71	1.99	0.45
11:AB:5157:DA:C2'	11:AB:5158:DT:H72	2.46	0.45
11:AB:5386:DT:C6	11:AB:5387:DT:H72	2.51	0.45
11:AB:5494:DA:C2'	11:AB:5495:DT:H72	2.46	0.45
11:AB:5518:DA:C2'	11:AB:5519:DT:H72	2.46	0.45
11:AB:5572:DG:H1'	11:AB:5573:DA:H5'	1.98	0.45
11:AB:5678:DC:H2'	11:AB:5679:DT:H71	1.99	0.45
11:AB:5845:DG:H1'	11:AB:5846:DA:H5'	1.98	0.45
11:AB:5846:DA:C2'	11:AB:5847:DT:H72	2.46	0.45
11:AB:5958:DA:C2'	11:AB:5959:DT:H72	2.46	0.45
11:AB:6070:DA:H2'	11:AB:6071:DT:H71	1.99	0.45
11:AB:6540:DG:H1'	11:AB:6541:DA:H5'	1.98	0.45
11:AB:6596:DA:C2'	11:AB:6597:DT:H72	2.46	0.45
11:AB:6637:DC:H2'	11:AB:6638:DT:H71	1.99	0.45
11:AB:6648:DA:H2'	11:AB:6649:DT:H71	1.99	0.45
11:AB:6666:DA:C2'	11:AB:6667:DT:H72	2.46	0.45
11:AB:6756:DC:H2'	11:AB:6757:DT:H71	1.99	0.45
11:AB:6780:DG:H1'	11:AB:6781:DA:H5'	1.98	0.45
11:AB:6801:DA:C2'	11:AB:6802:DT:H72	2.46	0.45
11:AB:6813:DG:H1'	11:AB:6814:DA:H5'	1.98	0.45
11:AB:6928:DA:C2'	11:AB:6929:DT:H72	2.46	0.45
11:AB:7093:DA:C2'	11:AB:7094:DT:H72	2.46	0.45
14:B1:33:DG:H2''	14:B1:34:DC:O5'	2.13	0.45
17:B4:5:DA:C2'	17:B4:6:DT:H72	2.46	0.45
22:B9:22:DG:H1'	22:B9:23:DA:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B9:38:DC:H2'	22:B9:39:DT:H71	1.99	0.45
22:B9:43:DC:H2'	22:B9:44:DT:H71	1.99	0.45
25:BD:22:DA:H2'	25:BD:23:DT:H71	1.99	0.45
27:C2:7:DC:H2'	27:C2:8:DT:H71	1.99	0.45
32:C8:1:DA:C2'	32:C8:2:DT:H72	2.46	0.45
32:C8:53:DG:H1'	32:C8:54:DA:H5'	1.98	0.45
40:D5:19:DG:H1'	40:D5:20:DA:H5'	1.98	0.45
41:D6:9:DG:H1'	41:D6:10:DA:H5'	1.97	0.45
41:D6:21:DA:C2'	211:TD:22:DT:H72	2.46	0.45
41:D6:45:DC:H2'	41:D6:46:DT:H71	1.99	0.45
42:D7:15:DG:H1'	42:D7:16:DA:H5'	1.97	0.45
51:E5:21:DT:C6	51:E5:22:DT:H72	2.51	0.45
51:E5:26:DC:H2'	51:E5:27:DT:H71	1.99	0.45
51:E5:28:DG:H1'	51:E5:29:DA:H5'	1.97	0.45
52:E6:4:DG:H1'	52:E6:5:DA:H5'	1.98	0.45
57:EC:5:DA:C2'	57:EC:6:DT:H72	2.46	0.45
57:EC:21:DG:H1'	57:EC:22:DA:H5'	1.98	0.45
58:ED:14:DA:C2'	58:ED:15:DT:H72	2.46	0.45
62:F5:32:DT:H72	197:S7:17:DA:C2'	2.46	0.45
65:F8:4:DC:H2'	65:F8:5:DT:H71	1.99	0.45
67:FA:32:DG:H1'	67:FA:33:DA:H5'	1.98	0.45
74:G6:5:DG:H1'	74:G6:6:DA:H5'	1.98	0.45
82:H2:55:DG:H1'	108:J7:1:DA:H5'	1.98	0.45
87:H8:21:DG:H1'	87:H8:22:DA:H5'	1.98	0.45
95:I5:12:DG:H1'	95:I5:13:DA:H5'	1.98	0.45
102:ID:21:DG:H1'	102:ID:22:DA:H5'	1.97	0.45
104:J2:40:DA:C2'	104:J2:41:DT:H72	2.46	0.45
111:JA:6:DG:H1'	111:JA:7:DA:H5'	1.98	0.45
118:K6:19:DA:C2'	118:K6:20:DT:H72	2.46	0.45
119:K7:35:DG:H1'	119:K7:36:DA:H5'	1.98	0.45
121:K9:9:DG:H1'	121:K9:10:DA:H5'	1.98	0.45
122:KA:8:DC:H2'	122:KA:9:DT:H71	1.99	0.45
137:M3:34:DG:H1'	137:M3:35:DA:H5'	1.98	0.45
138:M5:16:DG:H1'	138:M5:17:DA:H5'	1.98	0.45
139:M6:8:DA:C2'	139:M6:9:DT:H72	2.46	0.45
145:MD:2:DA:C2'	145:MD:3:DT:H72	2.46	0.45
147:N3:7:DG:H1'	147:N3:8:DA:H5'	1.98	0.45
152:N9:11:DT:H72	208:T9:13:DA:C2'	2.46	0.45
154:NC:38:DA:C2'	219:UC:21:DT:H72	2.46	0.45
161:O8:28:DG:H1'	161:O8:29:DA:H5'	1.98	0.45
165:OD:24:DA:H2'	165:OD:25:DT:H71	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
165:OD:33:DA:C2'	165:OD:34:DT:H72	2.46	0.45
167:P3:23:DC:H2'	167:P3:24:DT:H71	1.99	0.45
178:Q5:10:DA:H2'	178:Q5:11:DT:H71	1.99	0.45
182:QA:18:DG:H1'	182:QA:19:DA:H5'	1.98	0.45
188:R7:5:DG:H1'	188:R7:6:DA:H5'	1.98	0.45
190:R9:8:DG:H1'	190:R9:9:DA:H5'	1.98	0.45
194:S2:12:DG:H1'	194:S2:13:DA:H5'	1.98	0.45
206:T7:50:DG:H1'	206:T7:51:DA:H5'	1.98	0.45
209:TA:19:DT:C6	209:TA:20:DT:H72	2.51	0.45
220:UD:1:DC:H2'	220:UD:2:DT:H71	1.99	0.45
221:V2:10:DA:C2'	221:V2:11:DT:H72	2.46	0.45
5:A5:1:DT:C6	5:A5:2:DT:H72	2.51	0.45
11:AB:188:DT:C6	11:AB:189:DT:H72	2.51	0.45
11:AB:256:DC:H2'	11:AB:257:DT:H71	1.99	0.45
11:AB:299:DC:H2'	11:AB:300:DT:H71	1.99	0.45
11:AB:319:DA:C2'	11:AB:320:DT:H72	2.46	0.45
11:AB:420:DG:H1'	11:AB:421:DA:H5'	1.98	0.45
11:AB:450:DG:H1'	11:AB:451:DA:H5'	1.98	0.45
11:AB:559:DC:H2'	11:AB:560:DT:H71	1.99	0.45
11:AB:595:DT:C6	11:AB:596:DT:H72	2.51	0.45
11:AB:664:DC:H2'	11:AB:665:DT:H71	1.99	0.45
11:AB:676:DG:H2''	11:AB:677:DC:O5'	2.13	0.45
11:AB:762:DG:H1'	11:AB:763:DA:H5'	1.98	0.45
11:AB:789:DG:H1'	11:AB:790:DA:H5'	1.98	0.45
11:AB:809:DA:H2'	11:AB:810:DT:H71	1.99	0.45
11:AB:961:DC:H2'	11:AB:962:DT:H71	1.99	0.45
11:AB:976:DT:C6	11:AB:977:DT:H72	2.51	0.45
11:AB:990:DA:C2'	11:AB:991:DT:H72	2.46	0.45
11:AB:1240:DC:H2'	11:AB:1241:DT:H71	1.99	0.45
11:AB:1299:DG:H1'	11:AB:1300:DA:H5'	1.98	0.45
11:AB:1387:DC:H2'	11:AB:1388:DT:H71	1.99	0.45
11:AB:1475:DC:H2'	11:AB:1476:DT:H72	1.97	0.45
11:AB:1541:DG:H2''	11:AB:1542:DC:O5'	2.13	0.45
11:AB:1607:DA:C2'	11:AB:1608:DT:H72	2.46	0.45
11:AB:1618:DA:C2'	11:AB:1619:DT:H72	2.46	0.45
11:AB:1624:DC:H2'	11:AB:1625:DT:H71	1.99	0.45
11:AB:1944:DG:H1'	11:AB:1945:DA:H5'	1.98	0.45
11:AB:1962:DG:H1'	11:AB:1963:DA:H5'	1.98	0.45
11:AB:2136:DC:H2'	11:AB:2137:DT:H71	1.99	0.45
11:AB:2152:DC:H2'	11:AB:2153:DT:H71	1.99	0.45
11:AB:2160:DG:H1'	11:AB:2161:DA:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2161:DA:C2'	11:AB:2162:DT:H72	2.46	0.45
11:AB:2181:DT:C6	11:AB:2182:DT:H72	2.51	0.45
11:AB:2187:DG:H1'	11:AB:2188:DA:H5'	1.98	0.45
11:AB:2267:DG:H1'	11:AB:2268:DA:H5'	1.98	0.45
11:AB:2314:DA:C2'	11:AB:2315:DT:H72	2.46	0.45
11:AB:2342:DT:C6	11:AB:2343:DT:H72	2.51	0.45
11:AB:2363:DT:C6	11:AB:2364:DT:H72	2.51	0.45
11:AB:2483:DG:H1'	11:AB:2484:DA:H5'	1.98	0.45
11:AB:2519:DT:C6	11:AB:2520:DT:H72	2.51	0.45
11:AB:2521:DC:H2'	11:AB:2522:DT:H71	1.99	0.45
11:AB:2535:DC:H2'	11:AB:2536:DT:H71	1.99	0.45
11:AB:2541:DA:C2'	11:AB:2542:DT:H72	2.46	0.45
11:AB:2622:DG:H1'	11:AB:2623:DA:H5'	1.98	0.45
11:AB:2633:DA:C2'	11:AB:2634:DT:H72	2.46	0.45
11:AB:2645:DC:H2'	11:AB:2646:DT:H71	1.99	0.45
11:AB:2650:DC:H2'	11:AB:2651:DT:H71	1.99	0.45
11:AB:2682:DT:C6	11:AB:2683:DT:H72	2.51	0.45
11:AB:2688:DG:H1'	11:AB:2689:DA:H5'	1.98	0.45
11:AB:2703:DT:C6	11:AB:2704:DT:H72	2.51	0.45
11:AB:2844:DT:C6	11:AB:2845:DT:H72	2.51	0.45
11:AB:2868:DG:H1'	11:AB:2869:DA:H5'	1.98	0.45
11:AB:3330:DT:C6	11:AB:3331:DT:H72	2.51	0.45
11:AB:3487:DG:H1'	11:AB:3488:DA:H5'	1.98	0.45
11:AB:3505:DT:C6	11:AB:3506:DT:H72	2.51	0.45
11:AB:3507:DA:C2'	11:AB:3508:DT:H72	2.46	0.45
11:AB:3850:DA:H2'	11:AB:3851:DT:H71	1.99	0.45
11:AB:3910:DC:H2'	11:AB:3911:DT:H71	1.99	0.45
11:AB:3968:DC:H2'	11:AB:3969:DT:H71	1.99	0.45
11:AB:4272:DA:C2'	11:AB:4273:DT:H72	2.46	0.45
11:AB:4376:DG:H1'	11:AB:4377:DA:H5'	1.98	0.45
11:AB:4395:DC:H2'	11:AB:4396:DT:H71	1.99	0.45
11:AB:4467:DC:H2'	11:AB:4468:DT:H71	1.99	0.45
11:AB:4690:DC:H2'	11:AB:4691:DT:H71	1.99	0.45
11:AB:4719:DC:H2'	11:AB:4720:DT:H71	1.99	0.45
11:AB:5243:DC:H2'	11:AB:5244:DT:H71	1.98	0.45
11:AB:5317:DT:C6	11:AB:5318:DT:H72	2.51	0.45
11:AB:5353:DA:C2'	11:AB:5354:DT:H72	2.46	0.45
11:AB:5392:DC:H2'	11:AB:5393:DT:H71	1.99	0.45
11:AB:5461:DC:H2'	11:AB:5462:DT:H71	1.99	0.45
11:AB:5562:DA:C2'	11:AB:5563:DT:H72	2.46	0.45
11:AB:5578:DG:H1'	11:AB:5579:DA:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6025:DC:H2'	11:AB:6026:DT:H71	1.99	0.45
11:AB:6077:DC:H2'	11:AB:6078:DT:H71	1.99	0.45
11:AB:6209:DA:C2'	11:AB:6210:DT:H72	2.46	0.45
11:AB:6262:DG:H1'	11:AB:6263:DA:H5'	1.98	0.45
11:AB:6263:DA:C2'	11:AB:6264:DT:H72	2.46	0.45
11:AB:6516:DA:C2'	11:AB:6517:DT:H72	2.46	0.45
11:AB:6583:DT:C6	11:AB:6584:DT:H72	2.51	0.45
11:AB:6595:DG:H1'	11:AB:6596:DA:H5'	1.98	0.45
11:AB:6665:DG:H1'	11:AB:6666:DA:H5'	1.98	0.45
11:AB:6871:DT:C6	11:AB:6872:DT:H72	2.51	0.45
11:AB:6943:DG:H1'	11:AB:6944:DA:H5'	1.98	0.45
11:AB:7199:DG:H1'	11:AB:7200:DA:H5'	1.98	0.45
13:AD:14:DG:H2''	13:AD:15:DC:O5'	2.13	0.45
16:B3:12:DG:H1'	16:B3:13:DA:H5'	1.98	0.45
19:B6:22:DC:H2'	19:B6:23:DT:H71	1.99	0.45
28:C3:16:DA:C2'	204:T3:36:DT:H72	2.46	0.45
31:C7:25:DA:C2'	31:C7:26:DT:H72	2.46	0.45
32:C8:19:DG:H1'	32:C8:20:DA:H5'	1.98	0.45
38:D2:6:DG:H1'	38:D2:7:DA:H5'	1.98	0.45
43:D8:15:DA:H5'	159:O6:7:DG:H1'	1.98	0.45
43:D8:33:DG:H1'	43:D8:34:DA:H5'	1.98	0.45
47:DD:13:DA:C2'	47:DD:14:DT:H72	2.46	0.45
49:E2:8:DA:H2'	49:E2:9:DT:H71	1.99	0.45
52:E6:1:DT:C6	52:E6:2:DT:H72	2.51	0.45
52:E6:24:DC:H2'	52:E6:25:DT:H71	1.99	0.45
53:E7:2:DT:C6	53:E7:3:DT:H72	2.51	0.45
54:E8:31:DT:C6	54:E8:32:DT:H72	2.51	0.45
63:F6:11:DG:H2''	63:F6:12:DC:O5'	2.13	0.45
66:F9:19:DG:H1'	66:F9:20:DA:H5'	1.98	0.45
66:F9:20:DA:C2'	66:F9:21:DT:H72	2.46	0.45
84:H5:29:DC:H2'	84:H5:30:DT:H71	1.99	0.45
94:I3:12:DA:C2'	94:I3:13:DT:H72	2.46	0.45
98:I8:26:DC:H2'	98:I8:27:DT:H71	1.99	0.45
99:I9:29:DG:H1'	99:I9:30:DA:H5'	1.98	0.45
102:ID:13:DC:H2'	102:ID:14:DT:H71	1.99	0.45
104:J2:1:DG:H1'	104:J2:2:DA:H5'	1.98	0.45
104:J2:16:DG:H1'	104:J2:17:DA:H5'	1.98	0.45
105:J3:16:DC:H2'	105:J3:17:DT:H71	1.99	0.45
106:J5:4:DG:H1'	106:J5:5:DA:H5'	1.98	0.45
109:J8:31:DA:H2'	109:J8:32:DT:H71	1.99	0.45
111:JA:4:DG:H1'	111:JA:5:DA:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
114:K1:19:DA:C2'	114:K1:20:DT:H72	2.46	0.45
120:K8:18:DA:C2'	120:K8:19:DT:H72	2.46	0.45
122:KA:44:DG:H1'	122:KA:45:DA:H5'	1.98	0.45
130:L7:27:DA:H2'	130:L7:28:DT:H71	1.99	0.45
132:L9:17:DA:H2'	132:L9:18:DT:H71	1.99	0.45
146:N2:8:DG:H1'	146:N2:9:DA:H5'	1.98	0.45
152:N9:8:DA:C2'	152:N9:9:DT:H72	2.46	0.45
154:NC:2:DC:H2'	154:NC:3:DT:H71	1.99	0.45
158:O5:46:DA:C2'	158:O5:47:DT:H72	2.46	0.45
159:O6:1:DT:C6	159:O6:2:DT:H72	2.51	0.45
160:O7:18:DA:H2'	160:O7:19:DT:H71	1.99	0.45
161:O8:3:DA:H2'	161:O8:4:DT:H71	1.99	0.45
175:PD:14:DT:C6	175:PD:15:DT:H72	2.51	0.45
183:QC:11:DG:H1'	183:QC:12:DA:H5'	1.98	0.45
185:R2:1:DT:C6	185:R2:2:DT:H72	2.51	0.45
185:R2:8:DG:H1'	185:R2:9:DA:H5'	1.98	0.45
190:R9:5:DT:C6	190:R9:6:DT:H72	2.51	0.45
190:R9:19:DT:C6	190:R9:20:DT:H72	2.51	0.45
191:RA:15:DG:H1'	191:RA:16:DA:H5'	1.98	0.45
191:RA:16:DA:H2'	191:RA:17:DT:H71	1.99	0.45
206:T7:34:DG:H1'	206:T7:35:DA:H5'	1.98	0.45
206:T7:44:DA:H2'	206:T7:45:DT:H71	1.99	0.45
223:V5:23:DC:H2'	223:V5:24:DT:H71	1.99	0.45
226:V9:22:DG:H1'	226:V9:23:DA:H5'	1.98	0.45
226:V9:32:DA:C2'	226:V9:33:DT:H72	2.46	0.45
228:VC:20:DC:H2'	228:VC:21:DT:H72	1.97	0.45
229:VD:5:DG:H1'	229:VD:6:DA:H5'	1.98	0.45
230:W3:31:DC:H2'	230:W3:32:DT:H71	1.99	0.45
230:W3:39:DG:H1'	230:W3:40:DA:H5'	1.98	0.45
231:W5:24:DG:H1'	231:W5:25:DA:H5'	1.98	0.45
234:W9:10:DC:H2'	234:W9:11:DT:H71	1.99	0.45
235:WD:5:DG:H1'	235:WD:6:DA:H5'	1.98	0.45
1:A1:23:DG:H1'	1:A1:24:DA:H5'	1.98	0.45
2:A2:7:DG:H1'	2:A2:8:DA:H5'	1.98	0.45
3:A3:21:DA:C2'	3:A3:22:DT:H72	2.46	0.45
11:AB:211:DC:H2'	11:AB:212:DT:H71	1.99	0.45
11:AB:393:DA:C2'	11:AB:394:DT:H72	2.46	0.45
11:AB:403:DA:H2'	11:AB:404:DT:H71	1.99	0.45
11:AB:841:DC:H2'	11:AB:842:DT:H71	1.99	0.45
11:AB:940:DG:H1'	11:AB:941:DA:H5'	1.98	0.45
11:AB:972:DG:H1'	11:AB:973:DA:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1157:DT:C6	11:AB:1158:DT:H72	2.51	0.45
11:AB:1707:DC:H2'	11:AB:1708:DT:H71	1.99	0.45
11:AB:1907:DG:H1'	11:AB:1908:DA:H5'	1.98	0.45
11:AB:2031:DG:H1'	11:AB:2032:DA:H5'	1.98	0.45
11:AB:2068:DA:H2'	11:AB:2069:DT:H71	1.99	0.45
11:AB:2104:DA:C2'	11:AB:2105:DT:H72	2.46	0.45
11:AB:2130:DA:C2'	11:AB:2131:DT:H72	2.46	0.45
11:AB:2178:DG:H2''	11:AB:2179:DC:O5'	2.13	0.45
11:AB:2224:DC:H2'	11:AB:2225:DT:H71	1.99	0.45
11:AB:2275:DC:H2'	11:AB:2276:DT:H71	1.99	0.45
11:AB:2643:DG:H1'	11:AB:2644:DA:H5'	1.98	0.45
11:AB:2881:DC:H2'	11:AB:2882:DT:H71	1.99	0.45
11:AB:2966:DA:C2'	11:AB:2967:DT:H72	2.46	0.45
11:AB:3102:DA:C2'	11:AB:3103:DT:H72	2.46	0.45
11:AB:3149:DC:H2'	11:AB:3150:DT:H71	1.99	0.45
11:AB:3294:DC:H2'	11:AB:3295:DT:H71	1.99	0.45
11:AB:3359:DC:H2'	11:AB:3360:DT:H71	1.99	0.45
11:AB:3526:DT:C6	11:AB:3527:DT:H72	2.51	0.45
11:AB:3613:DA:H2'	11:AB:3614:DT:H71	1.99	0.45
11:AB:3693:DA:H2'	11:AB:3694:DT:H71	1.99	0.45
11:AB:3797:DA:C2'	11:AB:3798:DT:H72	2.46	0.45
11:AB:3844:DG:H1'	11:AB:3845:DA:H5'	1.98	0.45
11:AB:4066:DC:H2'	11:AB:4067:DT:H71	1.99	0.45
11:AB:4146:DC:H2'	11:AB:4147:DT:H71	1.99	0.45
11:AB:4164:DC:H2'	11:AB:4165:DT:H71	1.99	0.45
11:AB:4732:DG:H2''	11:AB:4733:DC:O5'	2.13	0.45
11:AB:4810:DC:H2'	11:AB:4811:DT:H71	1.99	0.45
11:AB:5001:DG:H2''	11:AB:5002:DC:O5'	2.13	0.45
11:AB:5003:DC:H2'	11:AB:5004:DT:H71	1.98	0.45
11:AB:5232:DA:H2'	11:AB:5233:DT:H71	1.99	0.45
11:AB:5302:DC:H2'	11:AB:5303:DT:H71	1.99	0.45
11:AB:5422:DA:C2'	11:AB:5423:DT:H72	2.46	0.45
11:AB:5511:DC:H2'	11:AB:5512:DT:H71	1.99	0.45
11:AB:5699:DC:H2'	11:AB:5700:DT:H71	1.99	0.45
11:AB:5726:DA:H2'	11:AB:5727:DT:H71	1.99	0.45
11:AB:5773:DC:H2'	11:AB:5774:DT:H71	1.99	0.45
11:AB:5789:DC:H2'	11:AB:5790:DT:H71	1.99	0.45
11:AB:5921:DA:H2'	11:AB:5922:DT:H71	1.99	0.45
11:AB:6045:DA:C2'	11:AB:6046:DT:H72	2.46	0.45
11:AB:6051:DC:H2'	11:AB:6052:DT:H71	1.99	0.45
11:AB:6118:DC:H2'	11:AB:6119:DT:H71	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6231:DC:H2'	11:AB:6232:DT:H71	1.99	0.45
11:AB:6350:DC:H2'	11:AB:6351:DT:H71	1.99	0.45
11:AB:6373:DA:C2'	11:AB:6374:DT:H72	2.46	0.45
11:AB:6547:DC:H2'	11:AB:6548:DT:H71	1.99	0.45
11:AB:6746:DG:H1'	11:AB:6747:DA:H5'	1.98	0.45
11:AB:6807:DC:H2'	11:AB:6808:DT:H71	1.99	0.45
11:AB:6931:DG:H1'	11:AB:6932:DA:H5'	1.98	0.45
11:AB:7013:DC:H2'	11:AB:7014:DT:H71	1.99	0.45
11:AB:7042:DA:H2'	11:AB:7043:DT:H71	1.99	0.45
11:AB:7184:DT:C6	11:AB:7185:DT:H72	2.51	0.45
14:B1:10:DA:C2'	14:B1:11:DT:H72	2.46	0.45
45:DA:11:DG:H1'	45:DA:12:DA:H5'	1.98	0.45
46:DC:13:DC:H2'	57:EC:1:DT:H71	1.99	0.45
47:DD:15:DG:H1'	47:DD:16:DA:H5'	1.98	0.45
53:E7:14:DA:H2'	53:E7:15:DT:H71	1.99	0.45
55:E9:11:DG:H1'	55:E9:12:DA:H5'	1.98	0.45
55:E9:18:DG:H2'	55:E9:19:DC:O5'	2.13	0.45
55:E9:29:DG:H1'	55:E9:30:DA:H5'	1.98	0.45
58:ED:24:DA:H5'	77:G9:19:DG:H1'	1.98	0.45
58:ED:32:DG:H1'	58:ED:33:DA:H5'	1.98	0.45
60:F2:27:DG:H1'	60:F2:28:DA:H5'	1.98	0.45
76:G8:20:DG:H1'	76:G8:21:DA:H5'	1.98	0.45
77:G9:10:DG:H2'	77:G9:11:DC:O5'	2.13	0.45
79:GC:5:DG:H1'	79:GC:6:DA:H5'	1.98	0.45
81:H1:6:DG:H1'	81:H1:7:DA:H5'	1.98	0.45
84:H5:25:DC:H2'	84:H5:26:DT:H71	1.99	0.45
84:H5:40:DG:H1'	178:Q5:1:DA:H5'	1.98	0.45
88:H9:23:DG:H1'	88:H9:24:DA:H5'	1.98	0.45
89:HA:33:DC:H2'	89:HA:34:DT:H71	1.99	0.45
93:I2:19:DG:H1'	93:I2:20:DA:H5'	1.98	0.45
105:J3:5:DA:H2'	105:J3:6:DT:H71	1.99	0.45
106:J5:12:DG:H1'	106:J5:13:DA:H5'	1.98	0.45
109:J8:44:DG:H1'	109:J8:45:DA:H5'	1.98	0.45
119:K7:13:DG:H1'	119:K7:14:DA:H5'	1.98	0.45
119:K7:22:DG:H1'	119:K7:23:DA:H5'	1.98	0.45
125:L1:2:DG:H1'	125:L1:3:DA:H5'	1.98	0.45
126:L2:30:DA:H2'	126:L2:31:DT:H71	1.99	0.45
132:L9:2:DA:C2'	132:L9:3:DT:H72	2.46	0.45
136:M2:1:DC:H2'	136:M2:2:DT:H71	1.99	0.45
151:N8:11:DG:H1'	151:N8:12:DA:H5'	1.98	0.45
151:N8:12:DA:C2'	151:N8:13:DT:H72	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
154:NC:21:DG:H1'	154:NC:22:DA:H5'	1.98	0.45
158:O5:22:DA:C2'	158:O5:23:DT:H72	2.46	0.45
161:O8:41:DA:C2'	161:O8:42:DT:H72	2.46	0.45
164:OC:17:DC:H2'	164:OC:18:DT:H71	1.99	0.45
165:OD:11:DG:H1'	165:OD:12:DA:H5'	1.98	0.45
165:OD:51:DG:H1'	165:OD:52:DA:H5'	1.98	0.45
166:P2:33:DC:H2'	166:P2:34:DT:H71	1.99	0.45
170:P7:18:DA:C2'	170:P7:19:DT:H72	2.46	0.45
173:PA:4:DG:H1'	173:PA:5:DA:H5'	1.98	0.45
177:Q3:16:DA:C2'	177:Q3:17:DT:H72	2.46	0.45
178:Q5:34:DA:H2'	178:Q5:35:DT:H71	1.99	0.45
181:Q9:16:DG:H2''	181:Q9:17:DC:O5'	2.13	0.45
184:QD:30:DA:C2'	184:QD:31:DT:H72	2.46	0.45
185:R2:13:DC:H2'	185:R2:14:DT:H71	1.99	0.45
206:T7:5:DG:H1'	206:T7:6:DA:H5'	1.98	0.45
214:U5:12:DA:C2'	214:U5:13:DT:H72	2.46	0.45
216:U8:11:DG:H1'	216:U8:12:DA:H5'	1.98	0.45
230:W3:44:DA:C2'	230:W3:45:DT:H72	2.46	0.45
231:W5:25:DA:C2'	231:W5:26:DT:H72	2.46	0.45
236:X5:14:DA:C2'	236:X5:15:DT:H72	2.46	0.45
238:X9:7:DG:H1'	238:X9:8:DA:H5'	1.98	0.45
1:A1:17:DA:C2'	1:A1:18:DT:H72	2.46	0.45
5:A5:9:DG:H1'	5:A5:10:DA:H5'	1.98	0.45
11:AB:128:DC:H2'	11:AB:129:DT:H71	1.99	0.45
11:AB:270:DG:H1'	11:AB:271:DA:H5'	1.98	0.45
11:AB:519:DC:H2'	11:AB:520:DT:H71	1.99	0.45
11:AB:538:DC:H2'	11:AB:539:DT:H71	1.99	0.45
11:AB:1020:DG:H1'	11:AB:1021:DA:H5'	1.98	0.45
11:AB:1068:DG:H1'	11:AB:1069:DA:H5'	1.98	0.45
11:AB:1420:DC:H2'	11:AB:1421:DT:H71	1.99	0.45
11:AB:1662:DC:H2'	11:AB:1663:DT:H71	1.99	0.45
11:AB:1743:DC:H2'	11:AB:1744:DT:H71	1.99	0.45
11:AB:2067:DG:H1'	11:AB:2068:DA:H5'	1.98	0.45
11:AB:2220:DA:C2'	11:AB:2221:DT:H72	2.46	0.45
11:AB:2339:DG:H2''	11:AB:2340:DC:O5'	2.13	0.45
11:AB:2552:DA:C2'	11:AB:2553:DT:H72	2.46	0.45
11:AB:2846:DC:H2'	11:AB:2847:DT:H71	1.99	0.45
11:AB:2860:DA:H2'	11:AB:2861:DT:H71	1.99	0.45
11:AB:2929:DA:C2'	11:AB:2930:DT:H72	2.46	0.45
11:AB:3191:DC:H2'	11:AB:3192:DT:H71	1.99	0.45
11:AB:3270:DC:H2'	11:AB:3271:DT:H71	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3279:DA:H2'	11:AB:3280:DT:H71	1.99	0.45
11:AB:3714:DA:H2'	11:AB:3715:DT:H71	1.99	0.45
11:AB:3946:DG:H1'	11:AB:3947:DA:H5'	1.98	0.45
11:AB:3950:DC:H2'	11:AB:3951:DT:H71	1.99	0.45
11:AB:4018:DG:H1'	11:AB:4019:DA:H5'	1.97	0.45
11:AB:4422:DG:H1'	11:AB:4423:DA:H5'	1.98	0.45
11:AB:4520:DG:H1'	11:AB:4521:DA:H5'	1.98	0.45
11:AB:4697:DA:C2'	11:AB:4698:DT:H72	2.46	0.45
11:AB:5075:DC:H2'	11:AB:5076:DT:H71	1.99	0.45
11:AB:5231:DG:H1'	11:AB:5232:DA:H5'	1.98	0.45
11:AB:5273:DG:H1'	11:AB:5274:DA:H5'	1.97	0.45
11:AB:5527:DC:H2'	11:AB:5528:DT:H71	1.99	0.45
11:AB:5573:DA:C2'	11:AB:5574:DT:H72	2.46	0.45
11:AB:5750:DC:H2'	11:AB:5751:DT:H71	1.99	0.45
11:AB:5816:DA:H2'	11:AB:5817:DT:H71	1.99	0.45
11:AB:5936:DC:H2'	11:AB:5937:DT:H71	1.99	0.45
11:AB:6311:DA:H2'	11:AB:6312:DT:H71	1.99	0.45
11:AB:6331:DG:H1'	11:AB:6332:DA:H5'	1.97	0.45
11:AB:6551:DC:H2'	11:AB:6552:DT:H71	1.99	0.45
11:AB:6988:DC:H2'	11:AB:6989:DT:H71	1.99	0.45
11:AB:7074:DC:H2'	11:AB:7075:DT:H71	1.99	0.45
11:AB:7131:DC:H2'	11:AB:7132:DT:H71	1.99	0.45
11:AB:7243:DG:H1'	11:AB:7244:DA:H5'	1.98	0.45
16:B3:6:DG:H1'	16:B3:7:DA:H5'	1.98	0.45
29:C5:3:DG:H1'	29:C5:4:DA:H5'	1.98	0.45
34:CA:2:DA:C2'	34:CA:3:DT:H72	2.46	0.45
35:CC:7:DG:H1'	35:CC:8:DA:H5'	1.98	0.45
39:D3:6:DC:H2'	39:D3:7:DT:H71	1.99	0.45
39:D3:29:DG:H1'	39:D3:30:DA:H5'	1.98	0.45
43:D8:37:DG:H1'	43:D8:38:DA:H5'	1.98	0.45
44:D9:10:DC:H2'	44:D9:11:DT:H71	1.99	0.45
49:E2:7:DG:H1'	49:E2:8:DA:H5'	1.98	0.45
52:E6:9:DA:C2'	52:E6:10:DT:H72	2.46	0.45
53:E7:13:DG:H1'	53:E7:14:DA:H5'	1.98	0.45
54:E8:18:DC:H2'	54:E8:19:DT:H71	1.99	0.45
54:E8:29:DC:H2'	54:E8:30:DT:H71	1.99	0.45
59:F1:2:DG:H1'	59:F1:3:DA:H5'	1.98	0.45
70:G1:12:DA:C2'	70:G1:13:DT:H72	2.46	0.45
71:G2:10:DG:H1'	71:G2:11:DA:H5'	1.98	0.45
82:H2:6:DC:H2'	82:H2:7:DT:H71	1.99	0.45
84:H5:11:DA:H2'	84:H5:12:DT:H71	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:H6:18:DC:H2'	85:H6:19:DT:H71	1.99	0.45
86:H7:20:DG:H1'	130:L7:8:DA:H5'	1.98	0.45
87:H8:19:DG:H1'	87:H8:20:DA:H5'	1.97	0.45
88:H9:18:DA:H5'	227:VA:11:DG:H1'	1.98	0.45
97:I7:8:DG:H1'	97:I7:9:DA:H5'	1.98	0.45
107:J6:27:DC:H2'	107:J6:28:DT:H72	1.97	0.45
110:J9:10:DG:H1'	110:J9:11:DA:H5'	1.98	0.45
113:JD:26:DG:H1'	113:JD:27:DA:H5'	1.98	0.45
118:K6:5:DA:H2'	118:K6:6:DT:H71	1.99	0.45
119:K7:9:DG:H1'	119:K7:10:DA:H5'	1.98	0.45
122:KA:5:DG:H2''	122:KA:6:DC:O5'	2.13	0.45
122:KA:36:DT:H71	226:V9:18:DC:H2'	1.99	0.45
146:N2:17:DA:C2'	146:N2:18:DT:H72	2.46	0.45
148:N5:32:DA:C2'	148:N5:33:DT:H72	2.46	0.45
156:O2:54:DG:H1'	156:O2:55:DA:H5'	1.98	0.45
162:O9:12:DA:H2'	162:O9:13:DT:H71	1.99	0.45
163:OA:4:DG:H1'	163:OA:5:DA:H5'	1.98	0.45
164:OC:14:DG:H2''	164:OC:15:DC:O5'	2.13	0.45
167:P3:26:DA:C2'	167:P3:27:DT:H72	2.46	0.45
167:P3:33:DC:H2'	167:P3:34:DT:H71	1.99	0.45
174:PC:12:DC:H2'	174:PC:13:DT:H71	1.99	0.45
183:QC:8:DA:H2'	183:QC:9:DT:H71	1.99	0.45
199:S9:6:DG:H1'	199:S9:7:DA:H5'	1.98	0.45
199:S9:18:DG:H1'	199:S9:19:DA:H5'	1.97	0.45
201:SC:2:DA:C2'	201:SC:3:DT:H72	2.46	0.45
206:T7:15:DG:H1'	206:T7:16:DA:H5'	1.98	0.45
211:TD:23:DG:H1'	211:TD:24:DA:H5'	1.98	0.45
211:TD:24:DA:H2'	211:TD:25:DT:H71	1.99	0.45
227:VA:3:DC:H2'	227:VA:4:DT:H71	1.99	0.45
233:W8:22:DA:H2'	233:W8:23:DT:H71	1.99	0.45
235:WD:18:DA:C2'	235:WD:19:DT:H72	2.46	0.45
1:A1:42:DG:H1'	1:A1:43:DA:H5'	1.97	0.45
4:A4:24:DA:H2'	67:FA:8:DT:H71	1.99	0.45
8:A8:11:DA:C2'	8:A8:12:DT:H72	2.46	0.45
11:AB:62:DC:H2'	11:AB:63:DT:H71	1.99	0.45
11:AB:102:DA:C2'	11:AB:103:DT:H72	2.46	0.45
11:AB:517:DC:H2'	11:AB:518:DT:H71	1.99	0.45
11:AB:576:DC:H2'	11:AB:577:DT:H71	1.99	0.45
11:AB:594:DC:H2'	11:AB:595:DT:H71	1.99	0.45
11:AB:936:DG:H1'	11:AB:937:DA:H5'	1.98	0.45
11:AB:1030:DA:C2'	11:AB:1031:DT:H72	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1404:DC:H2'	11:AB:1405:DT:H71	1.99	0.45
11:AB:1704:DC:H2'	11:AB:1705:DT:H71	1.99	0.45
11:AB:1836:DG:H1'	11:AB:1837:DA:H5'	1.98	0.45
11:AB:1960:DC:H2'	11:AB:1961:DT:H71	1.99	0.45
11:AB:2407:DA:H2'	11:AB:2408:DT:H72	2.00	0.45
11:AB:2497:DC:H2'	11:AB:2498:DT:H71	1.99	0.45
11:AB:2715:DG:H1'	11:AB:2716:DA:H5'	1.97	0.45
11:AB:2742:DC:H2'	11:AB:2743:DT:H71	1.99	0.45
11:AB:2974:DG:H1'	11:AB:2975:DA:H5'	1.98	0.45
11:AB:3146:DC:H2'	11:AB:3147:DT:H71	1.99	0.45
11:AB:3443:DC:H2'	11:AB:3444:DT:H71	1.99	0.45
11:AB:3464:DC:H2'	11:AB:3465:DT:H71	1.99	0.45
11:AB:3485:DC:H2'	11:AB:3486:DT:H71	1.99	0.45
11:AB:4205:DC:H2'	11:AB:4206:DT:H71	1.99	0.45
11:AB:4611:DG:H1'	11:AB:4612:DA:H5'	1.98	0.45
11:AB:4888:DC:H2'	11:AB:4889:DT:H71	1.99	0.45
11:AB:5815:DG:H1'	11:AB:5816:DA:H5'	1.98	0.45
11:AB:5987:DG:H1'	11:AB:5988:DA:H5'	1.98	0.45
11:AB:6202:DC:H2'	11:AB:6203:DT:H71	1.99	0.45
11:AB:6224:DC:H2'	11:AB:6225:DT:H71	1.99	0.45
11:AB:7052:DC:H2'	11:AB:7053:DT:H71	1.99	0.45
18:B5:17:DC:H2'	18:B5:18:DT:H71	1.99	0.45
22:B9:9:DG:H1'	22:B9:10:DA:H5'	1.97	0.45
23:BA:30:DG:H1'	23:BA:31:DA:H5'	1.98	0.45
29:C5:36:DA:H2'	29:C5:37:DT:H72	1.99	0.45
32:C8:15:DG:H1'	32:C8:16:DA:H5'	1.98	0.45
33:C9:6:DG:H1'	33:C9:7:DA:H5'	1.98	0.45
40:D5:6:DG:H1'	40:D5:7:DA:H5'	1.98	0.45
44:D9:21:DA:H2'	209:TA:40:DT:H71	1.99	0.45
49:E2:32:DG:H1'	49:E2:33:DA:H5'	1.97	0.45
74:G6:13:DC:H2'	74:G6:14:DT:H71	1.99	0.45
83:H3:30:DG:H1'	83:H3:31:DA:H5'	1.98	0.45
83:H3:42:DG:H1'	184:QD:1:DA:H5'	1.98	0.45
92:I1:19:DA:H2'	92:I1:20:DT:H71	1.99	0.45
102:ID:12:DC:H2'	175:PD:14:DT:H71	1.99	0.45
114:K1:42:DC:H2'	114:K1:43:DT:H71	1.99	0.45
115:K2:25:DA:H2'	115:K2:26:DT:H72	1.99	0.45
125:L1:37:DC:H2'	125:L1:38:DT:H71	1.99	0.45
126:L2:36:DG:H1'	126:L2:37:DA:H5'	1.98	0.45
142:M9:11:DA:H2'	142:M9:12:DT:H72	1.99	0.45
155:ND:7:DG:H1'	155:ND:8:DA:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
156:O2:26:DG:H1'	156:O2:27:DA:H5'	1.98	0.45
156:O2:40:DG:H1'	156:O2:41:DA:H5'	1.98	0.45
160:O7:16:DG:H1'	160:O7:17:DA:H5'	1.98	0.45
165:OD:48:DA:H2'	165:OD:49:DT:H71	1.99	0.45
170:P7:5:DA:H2'	170:P7:6:DT:H71	1.99	0.45
172:P9:26:DC:H2'	172:P9:27:DT:H71	1.99	0.45
173:PA:38:DG:H1'	181:Q9:1:DA:H5'	1.98	0.45
177:Q3:22:DG:H1'	177:Q3:23:DA:H5'	1.98	0.45
178:Q5:9:DG:H1'	178:Q5:10:DA:H5'	1.98	0.45
189:R8:16:DC:H2'	189:R8:17:DT:H71	1.99	0.45
190:R9:13:DG:H1'	190:R9:14:DA:H5'	1.98	0.45
195:S3:24:DG:H1'	195:S3:25:DA:H5'	1.98	0.45
196:S5:9:DG:H1'	196:S5:10:DA:H5'	1.98	0.45
230:W3:7:DC:H2'	230:W3:8:DT:H71	1.99	0.45
233:W8:21:DG:H1'	233:W8:22:DA:H5'	1.98	0.45
238:X9:20:DG:H1'	238:X9:21:DA:H5'	1.98	0.45
11:AB:187:DC:H2'	11:AB:188:DT:H71	1.99	0.44
11:AB:191:DC:H2'	11:AB:192:DT:H71	1.99	0.44
11:AB:238:DA:H2'	11:AB:239:DT:H72	2.00	0.44
11:AB:435:DG:H1'	11:AB:436:DA:H5'	1.98	0.44
11:AB:681:DG:H1'	11:AB:682:DA:H5'	1.98	0.44
11:AB:978:DG:H1'	11:AB:979:DA:H5'	1.98	0.44
11:AB:1602:DC:H2'	11:AB:1603:DT:H71	1.99	0.44
11:AB:1604:DG:H1'	11:AB:1605:DA:H5'	1.98	0.44
11:AB:2120:DA:H2'	11:AB:2121:DT:H72	2.00	0.44
11:AB:2409:DG:H1'	11:AB:2410:DA:H5'	1.98	0.44
11:AB:2428:DA:H2'	11:AB:2429:DT:H72	2.00	0.44
11:AB:2506:DA:H2'	11:AB:2507:DT:H72	2.00	0.44
11:AB:3088:DG:H1'	11:AB:3089:DA:H5'	1.98	0.44
11:AB:3352:DC:H2'	11:AB:3353:DT:H71	1.99	0.44
11:AB:3376:DG:H1'	11:AB:3377:DA:H5'	1.98	0.44
11:AB:3531:DT:H72	11:AB:4790:DA:C2'	2.46	0.44
11:AB:3576:DG:H1'	11:AB:3577:DA:H5'	1.98	0.44
11:AB:3633:DG:H1'	11:AB:3634:DA:H5'	1.98	0.44
11:AB:3999:DC:H2'	11:AB:4000:DT:H71	1.99	0.44
11:AB:4544:DC:H2'	11:AB:4545:DT:H71	1.99	0.44
11:AB:4548:DC:H2'	11:AB:4549:DT:H71	1.99	0.44
11:AB:4579:DA:H2'	11:AB:4580:DT:H71	1.99	0.44
11:AB:4760:DG:H1'	11:AB:4761:DA:H5'	1.98	0.44
11:AB:5452:DA:H2'	11:AB:5453:DT:H72	2.00	0.44
11:AB:5552:DG:H1'	11:AB:5553:DA:H5'	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5627:DA:H2'	11:AB:5628:DT:H72	2.00	0.44
11:AB:5806:DG:H1'	11:AB:5807:DA:H5'	1.98	0.44
11:AB:5899:DG:H1'	11:AB:5900:DA:H5'	1.98	0.44
11:AB:6147:DC:H2'	11:AB:6148:DT:H71	1.99	0.44
11:AB:6200:DA:C2'	11:AB:6201:DT:H72	2.46	0.44
11:AB:6310:DG:H1'	11:AB:6311:DA:H5'	1.98	0.44
11:AB:6316:DA:H2'	11:AB:6317:DT:H72	2.00	0.44
11:AB:6472:DA:C2'	11:AB:6473:DT:H72	2.46	0.44
11:AB:6967:DA:C2'	11:AB:6968:DT:H72	2.46	0.44
11:AB:7028:DG:H1'	11:AB:7029:DA:H5'	1.98	0.44
12:AC:5:DG:H1'	12:AC:6:DA:H5'	1.98	0.44
23:BA:27:DC:H2'	23:BA:28:DT:H71	1.99	0.44
40:D5:11:DA:H2'	40:D5:12:DT:H72	2.00	0.44
55:E9:31:DA:H2'	55:E9:32:DT:H72	2.00	0.44
57:EC:16:DC:H2'	57:EC:17:DT:H71	1.99	0.44
58:ED:34:DA:H2'	58:ED:35:DT:H72	2.00	0.44
61:F3:17:DG:H1'	61:F3:18:DA:H5'	1.98	0.44
73:G5:9:DA:H2'	73:G5:10:DT:H72	2.00	0.44
74:G6:30:DC:H2'	213:U3:15:DT:H71	1.99	0.44
82:H2:34:DC:H2'	150:N7:1:DT:H71	1.99	0.44
84:H5:9:DG:H1'	84:H5:10:DA:H5'	1.98	0.44
99:I9:27:DG:H1'	99:I9:28:DA:H5'	1.98	0.44
107:J6:30:DA:H2'	107:J6:31:DT:H72	2.00	0.44
112:JC:16:DA:H2'	112:JC:17:DT:H72	2.00	0.44
124:KD:4:DC:H2'	124:KD:5:DT:H71	1.99	0.44
127:L3:17:DC:H2'	127:L3:18:DT:H71	1.99	0.44
130:L7:23:DA:H2'	130:L7:24:DT:H72	2.00	0.44
150:N7:3:DG:H1'	150:N7:4:DA:H5'	1.98	0.44
157:O3:12:DG:H1'	157:O3:13:DA:H5'	1.98	0.44
163:OA:14:DC:H2'	163:OA:15:DT:H71	1.99	0.44
177:Q3:24:DA:C2'	177:Q3:25:DT:H72	2.46	0.44
181:Q9:20:DG:H1'	181:Q9:21:DA:H5'	1.98	0.44
187:R5:37:DG:H1'	187:R5:38:DA:H5'	1.98	0.44
220:UD:7:DG:H1'	220:UD:8:DA:H5'	1.98	0.44
237:X7:9:DA:H2'	237:X7:10:DT:H72	2.00	0.44
238:X9:5:DC:H2'	238:X9:6:DT:H71	1.99	0.44
1:A1:37:DA:H2'	1:A1:38:DT:H72	2.00	0.44
3:A3:14:DG:H1'	3:A3:15:DA:H5'	1.98	0.44
4:A4:19:DA:H2'	4:A4:20:DT:H72	2.00	0.44
7:A7:24:DA:C2'	7:A7:25:DT:H72	2.46	0.44
11:AB:247:DA:H2'	11:AB:248:DT:H72	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:982:DA:C2'	11:AB:983:DT:H72	2.46	0.44
11:AB:1308:DA:H2'	11:AB:1309:DT:H72	2.00	0.44
11:AB:1522:DC:H2'	11:AB:1523:DT:H71	1.99	0.44
11:AB:2306:DA:C2'	11:AB:2307:DT:H72	2.46	0.44
11:AB:2759:DA:C2'	11:AB:2760:DT:H72	2.46	0.44
11:AB:3083:DA:C2'	11:AB:3084:DT:H72	2.46	0.44
11:AB:3176:DA:H2'	11:AB:3177:DT:H72	2.00	0.44
11:AB:3326:DA:H2'	11:AB:3327:DT:H72	2.00	0.44
11:AB:3438:DA:H2'	11:AB:3439:DT:H72	2.00	0.44
11:AB:3570:DA:H2'	11:AB:3571:DT:H72	2.00	0.44
11:AB:3785:DA:H2'	11:AB:3786:DT:H72	2.00	0.44
11:AB:4384:DC:H2'	11:AB:4385:DT:H71	1.99	0.44
11:AB:4412:DA:C2'	11:AB:4413:DT:H72	2.46	0.44
11:AB:4767:DA:H2'	11:AB:4768:DT:H72	2.00	0.44
11:AB:4803:DA:H2'	11:AB:4804:DT:H72	2.00	0.44
11:AB:5459:DC:H2'	11:AB:5460:DT:H71	1.99	0.44
11:AB:5613:DA:H2'	11:AB:5614:DT:H72	2.00	0.44
11:AB:5696:DC:H2'	11:AB:5697:DT:H71	1.99	0.44
11:AB:6501:DA:H2'	11:AB:6502:DT:H72	2.00	0.44
11:AB:7054:DC:H2'	11:AB:7055:DT:H71	1.99	0.44
11:AB:7225:DC:H2'	11:AB:7226:DT:H71	1.99	0.44
24:BC:31:DC:H2'	24:BC:32:DT:H71	1.99	0.44
54:E8:31:DT:H71	90:HC:16:DC:H2'	1.99	0.44
55:E9:8:DA:H2'	55:E9:9:DT:H72	2.00	0.44
58:ED:25:DA:H2'	58:ED:26:DT:H72	2.00	0.44
60:F2:15:DA:H2'	60:F2:16:DT:H72	2.00	0.44
62:F5:35:DA:H2'	62:F5:36:DT:H72	2.00	0.44
74:G6:27:DA:H2'	74:G6:28:DT:H72	2.00	0.44
83:H3:24:DG:H1'	83:H3:25:DA:H5'	1.98	0.44
84:H5:1:DA:H5'	128:L5:23:DG:H1'	1.98	0.44
92:I1:6:DA:C2'	92:I1:7:DT:H72	2.46	0.44
98:I8:19:DA:H2'	98:I8:20:DT:H71	2.00	0.44
109:J8:4:DA:H2'	109:J8:5:DT:H72	2.00	0.44
109:J8:35:DC:H2'	237:X7:1:DT:H71	1.99	0.44
112:JC:25:DA:H2'	112:JC:26:DT:H72	2.00	0.44
115:K2:27:DG:H1'	115:K2:28:DA:H5'	1.98	0.44
121:K9:15:DA:H2'	121:K9:16:DT:H72	2.00	0.44
122:KA:33:DG:H1'	122:KA:34:DA:H5'	1.98	0.44
128:L5:16:DG:H1'	128:L5:17:DA:H5'	1.98	0.44
129:L6:13:DA:C2'	129:L6:14:DT:H72	2.46	0.44
138:M5:25:DA:H2'	138:M5:26:DT:H72	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
148:N5:18:DG:H1'	148:N5:19:DA:H5'	1.97	0.44
151:N8:7:DC:H2'	151:N8:8:DT:H71	1.99	0.44
152:N9:1:DT:H72	191:RA:31:DA:H2'	2.00	0.44
160:O7:49:DA:H2'	160:O7:50:DT:H72	2.00	0.44
175:PD:8:DG:H1'	175:PD:9:DA:H5'	1.98	0.44
186:R3:20:DC:H2'	186:R3:21:DT:H71	1.99	0.44
195:S3:18:DA:C2'	195:S3:19:DT:H72	2.46	0.44
198:S8:29:DG:H1'	198:S8:30:DA:H5'	1.98	0.44
206:T7:42:DG:H1'	206:T7:43:DA:H5'	1.98	0.44
216:U8:21:DC:H2'	216:U8:22:DT:H71	1.99	0.44
227:VA:8:DC:H2'	227:VA:9:DT:H71	1.99	0.44
9:A9:11:DA:C2'	9:A9:12:DT:H72	2.46	0.44
11:AB:522:DG:H1'	11:AB:523:DA:H5'	1.98	0.44
11:AB:739:DC:H2'	11:AB:740:DT:H71	1.99	0.44
11:AB:1003:DA:C2'	11:AB:1004:DT:H72	2.46	0.44
11:AB:1378:DA:H2'	11:AB:1379:DT:H72	2.00	0.44
11:AB:1849:DC:H2'	11:AB:1850:DT:H71	1.99	0.44
11:AB:1998:DG:H1'	11:AB:1999:DA:H5'	1.98	0.44
11:AB:2350:DA:H2'	11:AB:2351:DT:H72	2.00	0.44
11:AB:2843:DC:H2'	11:AB:2844:DT:H71	1.99	0.44
11:AB:2942:DA:C2'	11:AB:2943:DT:H72	2.46	0.44
11:AB:2984:DC:H2'	11:AB:2985:DT:H71	1.99	0.44
11:AB:3134:DA:H2'	11:AB:3135:DT:H72	2.00	0.44
11:AB:3203:DA:C2'	11:AB:3204:DT:H72	2.46	0.44
11:AB:3532:DA:C2'	11:AB:3533:DT:H72	2.46	0.44
11:AB:3556:DC:H2'	11:AB:3557:DT:H71	1.99	0.44
11:AB:4234:DA:H2'	11:AB:4235:DT:H72	2.00	0.44
11:AB:4360:DC:H2'	11:AB:4361:DT:H71	1.99	0.44
11:AB:5656:DG:H1'	11:AB:5657:DA:H5'	1.98	0.44
11:AB:5689:DA:H2'	11:AB:5690:DT:H72	2.00	0.44
11:AB:5769:DA:C2'	11:AB:5770:DT:H72	2.46	0.44
11:AB:6072:DG:H1'	11:AB:6073:DA:H5'	1.98	0.44
11:AB:6326:DA:C2'	11:AB:6327:DT:H72	2.46	0.44
11:AB:6739:DA:H2'	11:AB:6740:DT:H72	2.00	0.44
11:AB:6748:DA:H2'	11:AB:6749:DT:H72	2.00	0.44
11:AB:7009:DA:C2'	11:AB:7010:DT:H72	2.46	0.44
11:AB:7229:DC:H2'	11:AB:7230:DT:H71	1.99	0.44
12:AC:11:DA:H2'	12:AC:12:DT:H72	2.00	0.44
41:D6:30:DA:H2'	41:D6:31:DT:H72	2.00	0.44
49:E2:28:DG:H1'	49:E2:29:DA:H5'	1.98	0.44
60:F2:20:DG:H1'	60:F2:21:DA:H5'	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:F3:4:DC:H2'	61:F3:5:DT:H71	1.99	0.44
70:G1:3:DC:H2'	70:G1:4:DT:H71	1.99	0.44
86:H7:11:DG:H1'	86:H7:12:DA:H5'	1.98	0.44
93:I2:3:DA:H2'	93:I2:4:DT:H71	2.00	0.44
95:I5:24:DA:H2'	95:I5:25:DT:H71	2.00	0.44
95:I5:39:DA:C2'	95:I5:40:DT:H72	2.46	0.44
105:J3:24:DA:C2'	105:J3:25:DT:H72	2.46	0.44
126:L2:52:DA:C2'	126:L2:53:DT:H72	2.46	0.44
145:MD:53:DG:H1'	145:MD:54:DA:H5'	1.98	0.44
151:N8:18:DT:H71	164:OC:16:DC:H2'	1.99	0.44
154:NC:8:DG:H1'	154:NC:9:DA:H5'	1.98	0.44
155:ND:16:DA:H2'	155:ND:17:DT:H72	2.00	0.44
158:O5:32:DG:H1'	158:O5:33:DA:H5'	1.98	0.44
189:R8:11:DA:C2'	189:R8:12:DT:H72	2.46	0.44
190:R9:15:DA:C2'	190:R9:16:DT:H72	2.46	0.44
198:S8:42:DA:H2'	198:S8:43:DT:H72	2.00	0.44
199:S9:13:DA:H2'	199:S9:14:DT:H72	2.00	0.44
205:T5:6:DC:H2'	205:T5:7:DT:H71	1.99	0.44
209:TA:22:DC:H2'	209:TA:23:DT:H71	1.99	0.44
220:UD:4:DA:H2'	220:UD:5:DT:H72	2.00	0.44
4:A4:8:DG:H1'	4:A4:9:DA:H5'	1.98	0.44
11:AB:1808:DG:H1'	11:AB:1809:DA:H5'	1.98	0.44
11:AB:1842:DA:H2'	11:AB:1843:DT:H72	2.00	0.44
11:AB:2592:DG:H1'	11:AB:2593:DA:H5'	1.98	0.44
11:AB:3130:DG:H1'	11:AB:3131:DA:H5'	1.98	0.44
11:AB:4256:DG:H1'	11:AB:4257:DA:H5'	1.98	0.44
11:AB:5529:DC:H2'	11:AB:5530:DT:H71	1.99	0.44
11:AB:6253:DC:H2'	11:AB:6254:DT:H71	1.99	0.44
11:AB:7107:DA:C2'	11:AB:7108:DT:H72	2.46	0.44
11:AB:7202:DG:H1'	11:AB:7203:DA:H5'	1.98	0.44
18:B5:33:DG:H1'	18:B5:34:DA:H5'	1.98	0.44
25:BD:11:DA:H2'	25:BD:12:DT:H72	2.00	0.44
28:C3:21:DG:H1'	28:C3:22:DA:H5'	1.98	0.44
47:DD:25:DG:H1'	47:DD:26:DA:H5'	1.98	0.44
89:HA:25:DG:H1'	89:HA:26:DA:H5'	1.98	0.44
91:HD:6:DA:C2'	91:HD:7:DT:H72	2.46	0.44
125:L1:18:DA:H2'	125:L1:19:DT:H72	2.00	0.44
187:R5:25:DG:H1'	187:R5:26:DA:H5'	1.97	0.44
224:V7:6:DC:H2'	224:V7:7:DT:H71	1.99	0.44
230:W3:4:DA:H2'	230:W3:5:DT:H72	2.00	0.44
236:X5:20:DA:H2'	236:X5:21:DT:H72	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1:DT:H72	70:G1:19:DA:H2'	2.00	0.44
6:A6:6:DG:H1'	6:A6:7:DA:H5'	1.97	0.44
7:A7:11:DG:H1'	7:A7:12:DA:H5'	1.98	0.44
11:AB:651:DG:H1'	11:AB:652:DT:H5'	2.00	0.44
11:AB:755:DA:H2'	11:AB:756:DT:H72	2.00	0.44
11:AB:797:DA:H2'	11:AB:798:DT:H72	2.00	0.44
11:AB:1000:DC:H2'	11:AB:1001:DT:H71	1.99	0.44
11:AB:1084:DA:H2'	11:AB:1085:DT:H72	2.00	0.44
11:AB:1179:DA:H2'	11:AB:1180:DT:H72	2.00	0.44
11:AB:1362:DG:H1'	11:AB:1363:DT:H5'	2.00	0.44
11:AB:2248:DA:H2'	11:AB:2249:DT:H72	2.00	0.44
11:AB:2368:DA:H2'	11:AB:2369:DT:H72	2.00	0.44
11:AB:2615:DG:H1'	11:AB:2616:DA:H5'	1.98	0.44
11:AB:3013:DG:H1'	11:AB:3014:DT:H5'	2.00	0.44
11:AB:3074:DA:H2'	11:AB:3075:DT:H72	2.00	0.44
11:AB:3649:DG:H1'	11:AB:3650:DT:H5'	2.00	0.44
11:AB:3993:DG:H1'	11:AB:3994:DT:H5'	2.00	0.44
11:AB:4032:DA:H2'	11:AB:4033:DT:H72	2.00	0.44
11:AB:4464:DC:H2'	11:AB:4465:DT:H71	1.99	0.44
11:AB:5130:DA:H2'	11:AB:5131:DT:H72	2.00	0.44
11:AB:5289:DG:H1'	11:AB:5290:DT:H5'	2.00	0.44
11:AB:6614:DC:H2'	11:AB:6615:DT:H71	1.99	0.44
11:AB:6686:DA:H2'	11:AB:6687:DT:H72	2.00	0.44
11:AB:6782:DA:H2'	11:AB:6783:DT:H72	2.00	0.44
20:B7:14:DT:H2'	20:B7:15:DT:H71	2.00	0.44
37:D1:12:DG:H1'	37:D1:13:DA:H5'	1.98	0.44
95:I5:16:DA:H2'	95:I5:17:DT:H72	2.00	0.44
105:J3:9:DG:H1'	105:J3:10:DA:H5'	1.98	0.44
108:J7:23:DA:H2'	108:J7:24:DT:H72	2.00	0.44
114:K1:26:DG:H1'	114:K1:27:DA:H5'	1.98	0.44
121:K9:5:DA:H2'	121:K9:6:DT:H72	2.00	0.44
136:M2:9:DA:H2'	136:M2:10:DT:H72	2.00	0.44
152:N9:29:DG:H1'	152:N9:30:DA:H5'	1.98	0.44
157:O3:1:DG:H1'	157:O3:2:DA:H5'	1.98	0.44
176:Q2:15:DG:H1'	176:Q2:16:DT:H5'	2.00	0.44
185:R2:5:DG:H1'	185:R2:6:DA:H5'	1.98	0.44
228:VC:33:DG:H1'	228:VC:34:DA:H5'	1.98	0.44
233:W8:15:DG:H1'	233:W8:16:DT:H5'	2.00	0.44
6:A6:18:DA:H2'	6:A6:19:DT:H72	2.00	0.44
11:AB:181:DT:H2'	11:AB:182:DT:H71	2.00	0.44
11:AB:508:DA:H2'	11:AB:509:DT:H72	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:510:DA:H2'	11:AB:511:DT:H72	2.00	0.44
11:AB:609:DT:H2'	11:AB:610:DT:H71	2.00	0.44
11:AB:1074:DG:H1'	11:AB:1075:DT:H5'	2.00	0.44
11:AB:1102:DA:H2'	11:AB:1103:DT:H72	2.00	0.44
11:AB:1343:DC:H2'	11:AB:1344:DT:H71	1.99	0.44
11:AB:1677:DG:H1'	11:AB:1678:DT:H5'	2.00	0.44
11:AB:1721:DG:H1'	11:AB:1722:DA:H5'	1.98	0.44
11:AB:1829:DG:H1'	11:AB:1830:DA:H5'	1.98	0.44
11:AB:2022:DG:H1'	11:AB:2023:DT:H5'	2.00	0.44
11:AB:2077:DG:H1'	11:AB:2078:DA:H5'	1.97	0.44
11:AB:2209:DG:H1'	11:AB:2210:DT:H5'	2.00	0.44
11:AB:2356:DG:H1'	11:AB:2357:DT:H5'	2.00	0.44
11:AB:2664:DC:H2'	11:AB:2665:DT:H71	1.99	0.44
11:AB:2785:DA:H2'	11:AB:2786:DT:H72	2.00	0.44
11:AB:2816:DT:H2'	11:AB:2817:DT:H71	2.00	0.44
11:AB:2888:DA:H2'	11:AB:2889:DT:H72	2.00	0.44
11:AB:2897:DC:H2'	11:AB:2898:DT:H71	1.99	0.44
11:AB:3071:DA:H2'	11:AB:3072:DT:H72	2.00	0.44
11:AB:3092:DA:H2'	11:AB:3093:DT:H72	2.00	0.44
11:AB:3263:DC:H2'	11:AB:3264:DT:H71	1.99	0.44
11:AB:3334:DG:H1'	11:AB:3335:DA:H5'	1.98	0.44
11:AB:3422:DA:H2'	11:AB:3423:DT:H72	2.00	0.44
11:AB:3435:DT:H2'	11:AB:3436:DT:H71	2.00	0.44
11:AB:3724:DA:H2'	11:AB:3725:DT:H72	2.00	0.44
11:AB:3745:DA:H2'	11:AB:3746:DT:H72	2.00	0.44
11:AB:4197:DG:H1'	11:AB:4198:DT:H5'	2.00	0.44
11:AB:4393:DA:H2'	11:AB:4394:DT:H72	2.00	0.44
11:AB:4403:DA:H2'	11:AB:4404:DT:H72	2.00	0.44
11:AB:4626:DC:H2'	11:AB:4627:DT:H71	1.99	0.44
11:AB:5728:DG:H1'	11:AB:5729:DT:H5'	2.00	0.44
11:AB:5818:DG:H1'	11:AB:5819:DT:H5'	2.00	0.44
11:AB:5896:DA:H2'	11:AB:5897:DT:H72	2.00	0.44
11:AB:5903:DA:H2'	11:AB:5904:DT:H72	2.00	0.44
11:AB:6035:DA:H2'	11:AB:6036:DT:H72	2.00	0.44
11:AB:6158:DG:H1'	11:AB:6159:DA:H5'	1.97	0.44
11:AB:6214:DA:H2'	11:AB:6215:DT:H72	2.00	0.44
11:AB:6597:DT:H2'	11:AB:6598:DT:H71	2.00	0.44
11:AB:6740:DT:H2'	11:AB:6741:DT:H71	2.00	0.44
11:AB:6838:DG:H1'	11:AB:6839:DT:H5'	2.00	0.44
11:AB:6840:DC:H2'	11:AB:6841:DT:H71	1.99	0.44
11:AB:6976:DA:H2'	11:AB:6977:DT:H72	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:7121:DA:H2'	11:AB:7122:DT:H72	2.00	0.44
11:AB:7175:DA:H2'	11:AB:7176:DT:H72	2.00	0.44
13:AD:40:DT:H2'	13:AD:41:DT:H71	2.00	0.44
17:B4:5:DA:H2'	17:B4:6:DT:H72	2.00	0.44
22:B9:53:DG:H1'	22:B9:54:DA:H5'	1.97	0.44
26:C1:20:DA:H2'	26:C1:21:DT:H72	2.00	0.44
29:C5:29:DA:H2'	29:C5:30:DT:H72	2.00	0.44
68:FC:2:DA:H2'	68:FC:3:DT:H72	2.00	0.44
70:G1:8:DG:H1'	70:G1:9:DA:H5'	1.98	0.44
83:H3:34:DA:H2'	83:H3:35:DT:H72	2.00	0.44
103:J1:4:DG:H1'	103:J1:5:DA:H5'	1.97	0.44
110:J9:21:DC:H2'	110:J9:22:DT:H71	1.99	0.44
114:K1:22:DG:H1'	114:K1:23:DT:H5'	2.00	0.44
125:L1:29:DG:H1'	125:L1:30:DT:H5'	2.00	0.44
125:L1:33:DG:H1'	125:L1:34:DA:H5'	1.98	0.44
130:L7:2:DA:H2'	130:L7:3:DT:H72	2.00	0.44
135:LD:7:DG:H1'	135:LD:8:DT:H5'	2.00	0.44
135:LD:15:DA:H2'	135:LD:16:DT:H72	2.00	0.44
145:MD:57:DA:H2'	145:MD:58:DT:H72	2.00	0.44
154:NC:14:DA:H2'	154:NC:15:DT:H72	2.00	0.44
158:O5:43:DA:H2'	158:O5:44:DT:H72	2.00	0.44
160:O7:36:DG:H1'	160:O7:37:DA:H5'	1.98	0.44
161:O8:45:DA:H2'	161:O8:46:DT:H72	2.00	0.44
171:P8:28:DA:H2'	171:P8:29:DT:H72	2.00	0.44
180:Q8:8:DA:H2'	180:Q8:9:DT:H72	2.00	0.44
184:QD:9:DA:H2'	184:QD:10:DT:H72	2.00	0.44
191:RA:28:DT:H2'	191:RA:29:DT:H71	2.00	0.44
194:S2:20:DA:H2'	194:S2:21:DT:H72	2.00	0.44
195:S3:26:DG:H1'	195:S3:27:DA:H5'	1.98	0.44
209:TA:9:DG:H1'	209:TA:10:DA:H5'	1.98	0.44
225:V8:13:DG:H1'	225:V8:14:DA:H5'	1.98	0.44
232:W7:15:DA:H2'	232:W7:16:DT:H72	2.00	0.44
238:X9:16:DA:H2'	238:X9:17:DT:H72	2.00	0.44
9:A9:13:DA:H2'	9:A9:14:DT:H72	2.00	0.44
11:AB:1:DA:H2'	11:AB:2:DT:H72	2.00	0.44
11:AB:484:DA:H2'	11:AB:485:DT:H72	2.00	0.44
11:AB:623:DG:H1'	11:AB:624:DT:H5'	2.00	0.44
11:AB:1257:DG:H1'	11:AB:1258:DT:H5'	2.00	0.44
11:AB:1260:DG:H1'	11:AB:1261:DA:H5'	1.98	0.44
11:AB:1341:DG:H1'	11:AB:1342:DT:H5'	2.00	0.44
11:AB:1358:DA:H2'	11:AB:1359:DT:H72	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1360:DA:H2'	11:AB:1361:DT:H72	2.00	0.44
11:AB:1433:DG:H1'	11:AB:1434:DT:H5'	2.00	0.44
11:AB:1461:DG:H1'	11:AB:1462:DT:H5'	2.00	0.44
11:AB:1697:DG:H1'	11:AB:1698:DT:H5'	2.00	0.44
11:AB:2125:DA:H2'	11:AB:2126:DT:H72	2.00	0.44
11:AB:2290:DA:H2'	11:AB:2291:DT:H72	2.00	0.44
11:AB:2334:DG:H1'	11:AB:2335:DT:H5'	2.00	0.44
11:AB:2337:DG:H1'	11:AB:2338:DA:H5'	1.98	0.44
11:AB:2377:DA:H2'	11:AB:2378:DT:H72	2.00	0.44
11:AB:2566:DA:H2'	11:AB:2567:DT:H72	2.00	0.44
11:AB:2698:DG:H1'	11:AB:2699:DA:H5'	1.98	0.44
11:AB:2747:DA:H2'	11:AB:2748:DT:H72	2.00	0.44
11:AB:2782:DG:H1'	11:AB:2783:DT:H5'	2.00	0.44
11:AB:3097:DG:H1'	11:AB:3098:DA:H5'	1.97	0.44
11:AB:3226:DA:H2'	11:AB:3227:DT:H72	2.00	0.44
11:AB:3238:DG:H1'	11:AB:3239:DA:H5'	1.97	0.44
11:AB:3257:DA:H2'	11:AB:3258:DT:H72	2.00	0.44
11:AB:3275:DA:H2'	11:AB:3276:DT:H72	2.00	0.44
11:AB:3325:DG:H1'	11:AB:3326:DA:H5'	1.98	0.44
11:AB:3374:DC:H2'	11:AB:3375:DT:H71	1.99	0.44
11:AB:3670:DA:H2'	11:AB:3671:DT:H72	2.00	0.44
11:AB:3782:DG:H1'	11:AB:3783:DT:H5'	2.00	0.44
11:AB:3868:DA:H2'	11:AB:3869:DT:H72	2.00	0.44
11:AB:3966:DG:H1'	11:AB:3967:DT:H5'	2.00	0.44
11:AB:3994:DT:H2'	11:AB:3995:DT:H71	2.00	0.44
11:AB:4036:DG:H1'	11:AB:4037:DT:H5'	2.00	0.44
11:AB:4114:DG:H1'	11:AB:4115:DA:H5'	1.98	0.44
11:AB:4233:DG:H1'	11:AB:4234:DA:H5'	1.98	0.44
11:AB:4365:DG:H1'	11:AB:4366:DT:H5'	2.00	0.44
11:AB:4647:DC:H2'	11:AB:4648:DT:H71	1.99	0.44
11:AB:4796:DA:H2'	11:AB:4797:DT:H72	2.00	0.44
11:AB:5048:DG:H1'	11:AB:5049:DT:H5'	2.00	0.44
11:AB:5290:DT:H2'	11:AB:5291:DT:H71	2.00	0.44
11:AB:5428:DA:H2'	11:AB:5429:DT:H72	2.00	0.44
11:AB:5729:DT:H2'	11:AB:5730:DT:H71	2.00	0.44
11:AB:5765:DC:H2'	11:AB:5766:DT:H71	1.99	0.44
11:AB:6113:DC:H2'	11:AB:6114:DT:H71	1.99	0.44
11:AB:6196:DC:H2'	11:AB:6197:DT:H71	1.99	0.44
11:AB:6267:DA:H2'	11:AB:6268:DT:H72	2.00	0.44
11:AB:6717:DG:H1'	11:AB:6718:DT:H5'	2.00	0.44
11:AB:6719:DT:H2'	11:AB:6720:DT:H71	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6724:DG:H1'	11:AB:6725:DT:H5'	2.00	0.44
11:AB:6778:DA:H2'	11:AB:6779:DT:H72	2.00	0.44
11:AB:6853:DA:H2'	11:AB:6854:DT:H72	2.00	0.44
11:AB:6878:DG:H1'	11:AB:6879:DT:H5'	2.00	0.44
11:AB:7166:DC:H2'	11:AB:7167:DT:H71	1.99	0.44
12:AC:12:DT:H2'	12:AC:13:DT:H71	2.00	0.44
12:AC:15:DT:H2'	12:AC:16:DT:H71	2.00	0.44
13:AD:38:DG:H1'	13:AD:39:DT:H5'	2.00	0.44
23:BA:5:DG:H1'	23:BA:6:DT:H5'	2.00	0.44
24:BC:17:DA:H2'	24:BC:18:DT:H72	2.00	0.44
26:C1:6:DA:H2'	26:C1:7:DT:H72	2.00	0.44
28:C3:8:DG:H1'	28:C3:9:DT:H5'	2.00	0.44
28:C3:11:DA:H2'	28:C3:12:DT:H72	2.00	0.44
36:CD:3:DG:H1'	36:CD:4:DA:H5'	1.98	0.44
40:D5:20:DA:H2'	40:D5:21:DT:H72	2.00	0.44
43:D8:2:DA:H2'	43:D8:3:DT:H72	2.00	0.44
59:F1:11:DC:H2'	59:F1:12:DT:H71	1.99	0.44
64:F7:24:DG:H1'	64:F7:25:DT:H5'	2.00	0.44
65:F8:1:DC:H2'	65:F8:2:DT:H71	1.99	0.44
65:F8:7:DA:H2'	65:F8:8:DT:H72	2.00	0.44
67:FA:22:DG:H1'	67:FA:23:DT:H5'	2.00	0.44
74:G6:18:DA:H2'	74:G6:19:DT:H72	2.00	0.44
75:G7:24:DG:H1'	75:G7:25:DT:H5'	2.00	0.44
77:G9:6:DT:H2'	77:G9:7:DT:H71	2.00	0.44
81:H1:17:DA:H2'	81:H1:18:DT:H72	2.00	0.44
82:H2:30:DG:H1'	82:H2:31:DA:H5'	1.98	0.44
83:H3:11:DG:H1'	83:H3:12:DA:H5'	1.97	0.44
90:HC:27:DG:H1'	90:HC:28:DA:H5'	1.98	0.44
91:HD:8:DA:H2'	91:HD:9:DT:H72	2.00	0.44
94:I3:50:DG:H1'	94:I3:51:DA:H5'	1.98	0.44
95:I5:18:DG:H1'	95:I5:19:DA:H5'	1.97	0.44
107:J6:25:DA:H2'	107:J6:26:DT:H72	2.00	0.44
108:J7:2:DA:H2'	108:J7:3:DT:H72	2.00	0.44
108:J7:53:DG:H1'	108:J7:54:DA:H5'	1.97	0.44
114:K1:10:DG:H1'	114:K1:11:DA:H5'	1.98	0.44
114:K1:34:DA:H2'	114:K1:35:DT:H72	2.00	0.44
115:K2:12:DT:H2'	115:K2:13:DT:H71	2.00	0.44
116:K3:12:DA:H2'	116:K3:13:DT:H72	2.00	0.44
119:K7:24:DT:H2'	119:K7:25:DT:H71	2.00	0.44
129:L6:15:DA:H2'	129:L6:16:DT:H72	2.00	0.44
130:L7:16:DA:H2'	130:L7:17:DT:H72	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
133:LA:4:DT:H2'	133:LA:5:DT:H71	2.00	0.44
137:M3:20:DA:H2'	137:M3:21:DT:H72	2.00	0.44
141:M8:13:DA:H2'	141:M8:14:DT:H72	2.00	0.44
150:N7:15:DG:H1'	150:N7:16:DT:H5'	2.00	0.44
152:N9:43:DG:H1'	152:N9:44:DA:H5'	1.98	0.44
159:O6:13:DA:H2'	159:O6:14:DT:H72	2.00	0.44
166:P2:25:DA:H2'	166:P2:26:DT:H72	2.00	0.44
168:P5:12:DT:H2'	168:P5:13:DT:H71	2.00	0.44
172:P9:15:DG:H1'	172:P9:16:DT:H5'	2.00	0.44
176:Q2:9:DA:H2'	176:Q2:10:DT:H72	2.00	0.44
177:Q3:26:DA:H2'	177:Q3:27:DT:H72	2.00	0.44
188:R7:10:DG:H1'	188:R7:11:DT:H5'	2.00	0.44
189:R8:8:DC:H2'	189:R8:9:DT:H71	1.99	0.44
202:SD:10:DG:H1'	202:SD:11:DA:H5'	1.98	0.44
208:T9:21:DC:H2'	208:T9:22:DT:H71	1.99	0.44
212:U2:8:DA:H2'	212:U2:9:DT:H72	2.00	0.44
214:U5:34:DA:H2'	214:U5:35:DT:H72	2.00	0.44
221:V2:10:DA:H2'	221:V2:11:DT:H72	2.00	0.44
228:VC:16:DA:H2'	228:VC:17:DT:H72	2.00	0.44
236:X5:19:DG:H1'	236:X5:20:DA:H5'	1.98	0.44
238:X9:30:DA:H2'	238:X9:31:DT:H72	2.00	0.44
238:X9:55:DG:H1'	238:X9:56:DA:H5'	1.98	0.44
1:A1:4:DG:H1'	1:A1:5:DT:H5'	2.00	0.44
3:A3:10:DG:H1'	3:A3:11:DT:H5'	2.00	0.44
4:A4:21:DA:H2'	4:A4:22:DT:H72	2.00	0.44
7:A7:26:DA:H2'	7:A7:27:DT:H72	2.00	0.44
8:A8:24:DG:H1'	8:A8:25:DT:H5'	2.00	0.44
10:AA:6:DA:H2'	10:AA:7:DT:H72	2.00	0.44
11:AB:50:DA:H2'	11:AB:51:DT:H72	2.00	0.44
11:AB:64:DG:H1'	11:AB:65:DT:H5'	2.00	0.44
11:AB:158:DA:H2'	11:AB:159:DT:H72	2.00	0.44
11:AB:472:DC:H2'	11:AB:473:DT:H71	1.99	0.44
11:AB:608:DG:H1'	11:AB:609:DT:H5'	2.00	0.44
11:AB:610:DT:H2'	11:AB:611:DT:H71	2.00	0.44
11:AB:688:DT:H2'	11:AB:689:DT:H71	2.00	0.44
11:AB:1066:DT:H2'	11:AB:1067:DT:H71	2.00	0.44
11:AB:1110:DA:H2'	11:AB:1111:DT:H72	2.00	0.44
11:AB:1264:DG:H1'	11:AB:1265:DT:H5'	2.00	0.44
11:AB:1301:DA:H2'	11:AB:1302:DT:H72	2.00	0.44
11:AB:1427:DA:H2'	11:AB:1428:DT:H72	2.00	0.44
11:AB:1553:DT:H2'	11:AB:1554:DT:H71	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1643:DG:H1'	11:AB:1644:DT:H5'	2.00	0.44
11:AB:1717:DT:H2'	11:AB:1718:DT:H71	2.00	0.44
11:AB:1752:DA:H2'	11:AB:1753:DT:H72	2.00	0.44
11:AB:1816:DT:H2'	11:AB:1817:DT:H71	2.00	0.44
11:AB:1853:DG:H1'	11:AB:1854:DT:H5'	2.00	0.44
11:AB:1876:DA:H2'	11:AB:1877:DT:H72	2.00	0.44
11:AB:1952:DT:H2'	11:AB:1953:DT:H71	2.00	0.44
11:AB:1975:DT:H2'	11:AB:1976:DT:H71	2.00	0.44
11:AB:1990:DA:H2'	11:AB:1991:DT:H72	2.00	0.44
11:AB:2057:DT:H2'	11:AB:5778:DT:H71	2.00	0.44
11:AB:2063:DG:H1'	11:AB:2064:DA:H5'	1.98	0.44
11:AB:2086:DT:H2'	11:AB:2087:DT:H71	2.00	0.44
11:AB:2173:DG:H1'	11:AB:2174:DT:H5'	2.00	0.44
11:AB:2191:DA:H2'	11:AB:2192:DT:H72	2.00	0.44
11:AB:2335:DT:H2'	11:AB:2336:DT:H71	2.00	0.44
11:AB:2360:DG:H1'	11:AB:2361:DA:H5'	1.98	0.44
11:AB:2375:DA:H2'	11:AB:2376:DT:H72	2.00	0.44
11:AB:2487:DA:H2'	11:AB:2488:DT:H72	2.00	0.44
11:AB:2526:DG:H1'	11:AB:2527:DT:H5'	2.00	0.44
11:AB:2604:DG:H1'	11:AB:2605:DT:H5'	2.00	0.44
11:AB:2623:DA:H2'	11:AB:2624:DT:H72	2.00	0.44
11:AB:2671:DA:H2'	11:AB:2672:DT:H72	2.00	0.44
11:AB:2719:DA:H2'	11:AB:2720:DT:H72	2.00	0.44
11:AB:2761:DG:H1'	11:AB:2762:DT:H5'	2.00	0.44
11:AB:2797:DT:H2'	11:AB:2798:DT:H71	2.00	0.44
11:AB:2835:DT:H2'	11:AB:2836:DT:H71	2.00	0.44
11:AB:2957:DT:H2'	11:AB:2958:DT:H71	2.00	0.44
11:AB:2977:DG:H1'	11:AB:2978:DT:H5'	2.00	0.44
11:AB:3001:DT:H2'	11:AB:3002:DT:H71	2.00	0.44
11:AB:3020:DG:H1'	11:AB:3021:DT:H5'	2.00	0.44
11:AB:3161:DT:H2'	11:AB:3162:DT:H71	2.00	0.44
11:AB:3182:DT:H2'	11:AB:3183:DT:H71	2.00	0.44
11:AB:3247:DG:H1'	11:AB:3248:DT:H5'	2.00	0.44
11:AB:3617:DT:H2'	11:AB:3618:DT:H71	2.00	0.44
11:AB:3659:DA:H2'	11:AB:3660:DT:H72	2.00	0.44
11:AB:3751:DA:H2'	11:AB:3752:DT:H72	2.00	0.44
11:AB:3761:DT:H2'	11:AB:3762:DT:H71	2.00	0.44
11:AB:3815:DA:H2'	11:AB:3816:DT:H72	2.00	0.44
11:AB:3960:DG:H1'	11:AB:3961:DT:H5'	2.00	0.44
11:AB:3973:DA:H2'	11:AB:3974:DT:H72	2.00	0.44
11:AB:4273:DT:H2'	11:AB:4274:DT:H71	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4348:DT:H2'	11:AB:4349:DT:H71	2.00	0.44
11:AB:4426:DT:H2'	11:AB:4427:DT:H71	2.00	0.44
11:AB:4536:DT:H2'	11:AB:4537:DT:H71	2.00	0.44
11:AB:4676:DT:H2'	11:AB:4677:DT:H71	2.00	0.44
11:AB:4873:DT:H2'	11:AB:4874:DT:H71	2.00	0.44
11:AB:5285:DA:H2'	11:AB:5286:DT:H72	2.00	0.44
11:AB:5353:DA:H2'	11:AB:5354:DT:H72	2.00	0.44
11:AB:5419:DA:H2'	11:AB:5420:DT:H72	2.00	0.44
11:AB:5431:DC:H2'	11:AB:5432:DT:H71	1.99	0.44
11:AB:5486:DA:H2'	11:AB:5487:DT:H72	2.00	0.44
11:AB:5997:DT:H2'	11:AB:5998:DT:H71	2.00	0.44
11:AB:6184:DT:H2'	11:AB:6185:DT:H71	2.00	0.44
11:AB:6259:DT:H2'	11:AB:6260:DT:H71	2.00	0.44
11:AB:6264:DT:H2'	11:AB:6265:DT:H71	2.00	0.44
11:AB:6392:DC:H2'	11:AB:6393:DT:H71	1.99	0.44
11:AB:6426:DT:H2'	11:AB:6427:DT:H71	2.00	0.44
11:AB:6431:DG:H1'	11:AB:6432:DT:H5'	2.00	0.44
11:AB:6479:DG:H1'	11:AB:6480:DT:H5'	2.00	0.44
11:AB:6482:DA:H2'	11:AB:6483:DT:H72	2.00	0.44
11:AB:6541:DA:H2'	11:AB:6542:DT:H72	2.00	0.44
11:AB:6574:DT:H2'	11:AB:6575:DT:H71	2.00	0.44
11:AB:6626:DA:H2'	11:AB:6627:DT:H72	2.00	0.44
11:AB:6667:DT:H2'	11:AB:6668:DT:H71	2.00	0.44
11:AB:6775:DG:H1'	11:AB:6776:DT:H5'	2.00	0.44
11:AB:6811:DA:H2'	11:AB:6812:DT:H72	2.00	0.44
11:AB:6864:DT:H2'	11:AB:6865:DT:H71	2.00	0.44
11:AB:6928:DA:H2'	11:AB:6929:DT:H72	2.00	0.44
11:AB:7004:DG:H1'	11:AB:7005:DT:H5'	2.00	0.44
11:AB:7102:DG:H1'	11:AB:7103:DT:H5'	2.00	0.44
19:B6:6:DA:H2'	19:B6:7:DT:H72	2.00	0.44
19:B6:20:DA:H2'	19:B6:21:DT:H72	2.00	0.44
20:B7:15:DT:H2'	20:B7:16:DT:H71	2.00	0.44
25:BD:17:DG:H1'	25:BD:18:DT:H5'	2.00	0.44
31:C7:25:DA:H2'	31:C7:26:DT:H72	2.00	0.44
37:D1:1:DC:H2'	37:D1:2:DT:H71	1.99	0.44
37:D1:6:DA:H2'	37:D1:7:DT:H72	2.00	0.44
49:E2:40:DG:H1'	49:E2:41:DA:H5'	1.98	0.44
55:E9:28:DT:H5'	80:GD:13:DG:H1'	2.00	0.44
58:ED:26:DT:H2'	58:ED:27:DT:H71	2.00	0.44
59:F1:5:DA:H2'	59:F1:6:DT:H72	2.00	0.44
67:FA:23:DT:H2'	67:FA:24:DT:H71	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:GA:8:DG:H1'	78:GA:9:DT:H5'	2.00	0.44
83:H3:3:DT:H2'	83:H3:4:DT:H71	2.00	0.44
86:H7:8:DT:H2'	86:H7:9:DT:H71	2.00	0.44
89:HA:15:DT:H2'	89:HA:16:DT:H71	2.00	0.44
89:HA:30:DA:H2'	89:HA:31:DT:H72	2.00	0.44
98:I8:22:DA:H2'	98:I8:23:DT:H72	2.00	0.44
101:IC:15:DA:H2'	101:IC:16:DT:H72	2.00	0.44
102:ID:32:DG:H1'	102:ID:33:DT:H5'	2.00	0.44
103:J1:7:DC:H2'	175:PD:7:DT:H71	1.99	0.44
107:J6:36:DT:H72	165:OD:21:DA:H2'	2.00	0.44
107:J6:41:DG:H1'	107:J6:42:DT:H5'	2.00	0.44
108:J7:17:DT:H2'	108:J7:18:DT:H71	2.00	0.44
112:JC:18:DA:H2'	112:JC:19:DT:H72	2.00	0.44
112:JC:20:DT:H2'	112:JC:21:DT:H71	2.00	0.44
114:K1:2:DA:H2'	114:K1:3:DT:H72	2.00	0.44
114:K1:6:DA:H2'	114:K1:7:DT:H72	2.00	0.44
117:K5:14:DT:H2'	117:K5:15:DT:H71	2.00	0.44
118:K6:7:DT:H2'	118:K6:8:DT:H71	2.00	0.44
119:K7:1:DG:H1'	119:K7:2:DA:H5'	1.98	0.44
121:K9:16:DT:H2'	121:K9:17:DT:H71	2.00	0.44
122:KA:29:DT:H2'	122:KA:30:DT:H71	2.00	0.44
124:KD:20:DA:H2'	124:KD:21:DT:H72	2.00	0.44
125:L1:1:DT:H72	137:M3:35:DA:H2'	1.99	0.44
130:L7:13:DT:H2'	130:L7:14:DT:H71	2.00	0.44
130:L7:44:DA:H2'	130:L7:45:DT:H72	2.00	0.44
133:LA:1:DT:H72	227:VA:29:DA:H2'	2.00	0.44
133:LA:3:DG:H1'	133:LA:4:DT:H5'	2.00	0.44
136:M2:20:DA:H2'	136:M2:21:DT:H72	2.00	0.44
145:MD:20:DA:H2'	145:MD:21:DT:H72	2.00	0.44
148:N5:8:DT:H2'	148:N5:9:DT:H71	2.00	0.44
149:N6:4:DT:H2'	149:N6:5:DT:H71	2.00	0.44
152:N9:16:DA:H2'	152:N9:17:DT:H72	1.99	0.44
158:O5:12:DA:H2'	158:O5:13:DT:H72	2.00	0.44
165:OD:30:DA:H2'	165:OD:31:DT:H72	2.00	0.44
171:P8:9:DT:H2'	171:P8:10:DT:H71	2.00	0.44
173:PA:16:DT:H2'	173:PA:17:DT:H71	2.00	0.44
178:Q5:31:DT:H2'	178:Q5:32:DT:H71	2.00	0.44
178:Q5:39:DG:H1'	178:Q5:40:DA:H5'	1.98	0.44
184:QD:18:DA:H2'	184:QD:19:DT:H72	2.00	0.44
198:S8:9:DT:H2'	198:S8:10:DT:H71	2.00	0.44
198:S8:25:DT:H2'	198:S8:26:DT:H71	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
198:S8:27:DG:H1'	198:S8:28:DA:H5'	1.98	0.44
200:SA:17:DT:H2'	200:SA:18:DT:H71	2.00	0.44
206:T7:7:DG:H1'	206:T7:8:DA:H5'	1.98	0.44
207:T8:23:DG:H1'	207:T8:24:DT:H5'	2.00	0.44
211:TD:4:DA:H2'	211:TD:5:DT:H72	2.00	0.44
211:TD:13:DG:H1'	211:TD:14:DT:H5'	2.00	0.44
212:U2:13:DG:H1'	212:U2:14:DA:H5'	1.98	0.44
212:U2:22:DT:H2'	212:U2:23:DT:H71	2.00	0.44
215:U7:14:DG:H1'	215:U7:15:DT:H5'	2.00	0.44
215:U7:15:DT:H2'	215:U7:16:DT:H71	2.00	0.44
215:U7:16:DT:H2'	215:U7:17:DT:H71	2.00	0.44
225:V8:7:DA:H2'	225:V8:8:DT:H72	2.00	0.44
229:VD:8:DG:H1'	229:VD:9:DA:H5'	1.98	0.44
231:W5:28:DT:H2'	231:W5:29:DT:H71	2.00	0.44
231:W5:29:DT:H2'	231:W5:30:DT:H71	2.00	0.44
232:W7:20:DC:H2'	232:W7:21:DT:H71	1.99	0.44
8:A8:26:DT:H2'	8:A8:27:DT:H71	2.00	0.44
11:AB:73:DA:H2'	11:AB:74:DT:H72	2.00	0.44
11:AB:79:DC:H2'	11:AB:80:DT:H71	1.99	0.44
11:AB:176:DT:H2'	11:AB:177:DT:H71	2.00	0.44
11:AB:180:DG:H1'	11:AB:181:DT:H5'	2.00	0.44
11:AB:224:DT:H2'	11:AB:225:DT:H71	2.00	0.44
11:AB:225:DT:H2'	11:AB:226:DT:H71	2.00	0.44
11:AB:375:DG:H1'	11:AB:376:DT:H5'	2.00	0.44
11:AB:667:DT:H2'	11:AB:668:DT:H71	2.00	0.44
11:AB:887:DC:H2'	11:AB:888:DT:H71	1.99	0.44
11:AB:1129:DT:H2'	11:AB:1130:DT:H71	2.00	0.44
11:AB:1303:DT:H2'	11:AB:1304:DT:H71	2.00	0.44
11:AB:1323:DA:H2'	11:AB:1324:DT:H72	2.00	0.44
11:AB:1618:DA:H2'	11:AB:1619:DT:H72	2.00	0.44
11:AB:1679:DT:H2'	11:AB:1680:DT:H71	2.00	0.44
11:AB:1715:DA:H2'	11:AB:1716:DT:H72	2.00	0.44
11:AB:2020:DT:H2'	11:AB:2021:DT:H71	2.00	0.44
11:AB:2023:DT:H2'	11:AB:2024:DT:H71	2.00	0.44
11:AB:2174:DT:H2'	11:AB:2175:DT:H71	2.00	0.44
11:AB:2301:DG:H1'	11:AB:2302:DT:H5'	2.00	0.44
11:AB:2308:DA:H2'	11:AB:2309:DT:H72	2.00	0.44
11:AB:2401:DG:H1'	11:AB:2402:DT:H5'	2.00	0.44
11:AB:2411:DT:H2'	11:AB:2412:DT:H71	2.00	0.44
11:AB:2479:DG:H1'	11:AB:2480:DT:H5'	2.00	0.44
11:AB:2493:DT:H2'	11:AB:2494:DT:H71	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2507:DT:H2'	11:AB:2508:DT:H71	2.00	0.44
11:AB:2529:DC:H2'	11:AB:2530:DT:H71	1.99	0.44
11:AB:2564:DA:H2'	11:AB:2565:DT:H72	2.00	0.44
11:AB:2749:DA:H2'	11:AB:2750:DT:H72	2.00	0.44
11:AB:2814:DT:H2'	11:AB:2815:DT:H71	2.00	0.44
11:AB:2857:DG:H1'	11:AB:2858:DT:H5'	2.00	0.44
11:AB:2978:DT:H2'	11:AB:2979:DT:H71	2.00	0.44
11:AB:3000:DT:H2'	11:AB:3001:DT:H71	2.00	0.44
11:AB:3015:DT:H2'	11:AB:3016:DT:H71	2.00	0.44
11:AB:3137:DA:H2'	11:AB:3138:DT:H72	2.00	0.44
11:AB:3138:DT:H2'	11:AB:3139:DT:H71	2.00	0.44
11:AB:3156:DT:H2'	11:AB:3157:DT:H71	2.00	0.44
11:AB:3181:DG:H1'	11:AB:3182:DT:H5'	2.00	0.44
11:AB:3304:DT:H2'	11:AB:3305:DT:H71	2.00	0.44
11:AB:3476:DG:H1'	11:AB:3477:DT:H5'	2.00	0.44
11:AB:3479:DT:H2'	11:AB:3480:DT:H71	2.00	0.44
11:AB:3581:DA:H2'	11:AB:3582:DT:H72	2.00	0.44
11:AB:3684:DG:H1'	11:AB:3685:DA:H5'	1.98	0.44
11:AB:3759:DT:H2'	11:AB:3760:DT:H71	2.00	0.44
11:AB:3939:DT:H2'	11:AB:3940:DT:H71	2.00	0.44
11:AB:3995:DT:H2'	11:AB:3996:DT:H71	2.00	0.44
11:AB:4010:DA:H2'	11:AB:4011:DT:H72	2.00	0.44
11:AB:4057:DG:H1'	11:AB:4058:DT:H5'	2.00	0.44
11:AB:4112:DG:H1'	11:AB:4113:DT:H5'	2.00	0.44
11:AB:4229:DT:H2'	11:AB:4230:DT:H71	2.00	0.44
11:AB:4308:DA:H2'	11:AB:4309:DT:H72	2.00	0.44
11:AB:4446:DA:H2'	11:AB:4447:DT:H72	2.00	0.44
11:AB:4638:DG:H1'	11:AB:4639:DT:H5'	2.00	0.44
11:AB:4675:DA:H2'	11:AB:4676:DT:H72	2.00	0.44
11:AB:4871:DG:H1'	11:AB:4872:DT:H5'	2.00	0.44
11:AB:5014:DA:H2'	11:AB:5015:DT:H72	2.00	0.44
11:AB:5157:DA:H2'	11:AB:5158:DT:H72	2.00	0.44
11:AB:5377:DT:H2'	11:AB:5378:DT:H71	2.00	0.44
11:AB:5395:DT:H2'	11:AB:5396:DT:H71	2.00	0.44
11:AB:5403:DA:H2'	11:AB:5404:DT:H72	2.00	0.44
11:AB:5449:DT:H2'	11:AB:5450:DT:H71	2.00	0.44
11:AB:5536:DA:H2'	11:AB:5537:DT:H72	2.00	0.44
11:AB:5564:DA:H2'	11:AB:5565:DT:H72	2.00	0.44
11:AB:5639:DT:H2'	11:AB:5640:DT:H71	2.00	0.44
11:AB:5660:DG:H1'	11:AB:5661:DT:H5'	2.00	0.44
11:AB:5712:DA:H2'	11:AB:5713:DT:H72	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5819:DT:H2'	11:AB:5820:DT:H71	2.00	0.44
11:AB:5970:DA:H2'	11:AB:5971:DT:H72	2.00	0.44
11:AB:6209:DA:H2'	11:AB:6210:DT:H72	2.00	0.44
11:AB:6340:DG:H1'	11:AB:6341:DT:H5'	2.00	0.44
11:AB:6488:DT:H2'	11:AB:6489:DT:H71	2.00	0.44
11:AB:6508:DT:H2'	11:AB:6509:DT:H71	2.00	0.44
11:AB:6598:DT:H2'	11:AB:6599:DT:H71	2.00	0.44
11:AB:6784:DA:H2'	11:AB:6785:DT:H72	2.00	0.44
11:AB:6956:DT:H2'	11:AB:6957:DT:H71	2.00	0.44
11:AB:7046:DT:H2'	11:AB:7047:DT:H71	2.00	0.44
11:AB:7060:DT:H2'	11:AB:7061:DT:H71	2.00	0.44
11:AB:7087:DT:H2'	11:AB:7088:DT:H71	2.00	0.44
11:AB:7151:DG:H1'	11:AB:7152:DT:H5'	2.00	0.44
11:AB:7220:DT:H2'	11:AB:7221:DT:H71	2.00	0.44
11:AB:7221:DT:H2'	11:AB:7222:DT:H71	2.00	0.44
12:AC:20:DG:H1'	12:AC:21:DA:H5'	1.98	0.44
26:C1:12:DT:H2'	26:C1:13:DT:H71	2.00	0.44
39:D3:3:DG:H1'	39:D3:4:DT:H5'	2.00	0.44
40:D5:8:DA:H2'	40:D5:9:DT:H72	1.99	0.44
40:D5:15:DT:H2'	40:D5:16:DT:H71	2.00	0.44
41:D6:27:DG:H1'	41:D6:28:DT:H5'	2.00	0.44
48:E1:1:DT:H71	187:R5:42:DC:H2'	1.99	0.44
49:E2:11:DT:H2'	49:E2:12:DT:H71	2.00	0.44
52:E6:14:DA:H2'	71:G2:14:DT:H71	1.99	0.44
54:E8:24:DT:H5'	68:FC:7:DG:H1'	2.00	0.44
62:F5:12:DA:H2'	62:F5:13:DT:H72	2.00	0.44
66:F9:20:DA:H2'	66:F9:21:DT:H72	2.00	0.44
68:FC:14:DG:H1'	68:FC:15:DT:H5'	2.00	0.44
77:G9:8:DG:H1'	77:G9:9:DA:H5'	1.98	0.44
78:GA:9:DT:H2'	78:GA:10:DT:H71	2.00	0.44
78:GA:10:DT:H2'	78:GA:11:DT:H71	2.00	0.44
79:GC:21:DG:H1'	79:GC:22:DT:H5'	2.00	0.44
82:H2:16:DT:H2'	82:H2:17:DT:H71	2.00	0.44
82:H2:28:DT:H5'	160:O7:5:DG:H1'	2.00	0.44
93:I2:32:DA:H2'	93:I2:33:DT:H72	2.00	0.44
98:I8:10:DA:H2'	98:I8:11:DT:H72	2.00	0.44
101:IC:11:DA:H2'	101:IC:12:DT:H72	2.00	0.44
105:J3:7:DT:H2'	105:J3:8:DT:H71	2.00	0.44
106:J5:10:DT:H2'	106:J5:11:DT:H71	2.00	0.44
107:J6:5:DA:H2'	107:J6:6:DT:H72	2.00	0.44
113:JD:22:DT:H72	190:R9:11:DA:H2'	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
118:K6:19:DA:H2'	118:K6:20:DT:H72	2.00	0.44
119:K7:36:DA:H2'	119:K7:37:DT:H72	2.00	0.44
119:K7:42:DT:H2'	119:K7:43:DT:H71	2.00	0.44
120:K8:19:DT:H2'	120:K8:20:DT:H71	2.00	0.44
122:KA:51:DA:H2'	155:ND:1:DT:H72	2.00	0.44
125:L1:22:DT:H71	195:S3:21:DA:H2'	1.99	0.44
127:L3:12:DA:H2'	127:L3:13:DT:H72	2.00	0.44
128:L5:1:DG:H1'	128:L5:2:DT:H5'	2.00	0.44
130:L7:12:DA:H2'	130:L7:13:DT:H72	2.00	0.44
132:L9:2:DA:H2'	132:L9:3:DT:H72	2.00	0.44
135:LD:9:DT:H2'	135:LD:10:DT:H71	2.00	0.44
142:M9:12:DT:H2'	142:M9:13:DT:H71	2.00	0.44
145:MD:2:DA:H2'	145:MD:3:DT:H72	2.00	0.44
147:N3:15:DT:H2'	147:N3:16:DT:H71	2.00	0.44
149:N6:22:DT:H2'	149:N6:23:DT:H71	2.00	0.44
152:N9:11:DT:H72	208:T9:13:DA:H2'	2.00	0.44
154:NC:11:DA:H2'	154:NC:12:DT:H72	2.00	0.44
154:NC:38:DA:H2'	219:UC:21:DT:H72	2.00	0.44
161:O8:5:DT:H72	183:QC:23:DA:H2'	2.00	0.44
174:PC:21:DT:H2'	174:PC:22:DT:H71	2.00	0.44
176:Q2:19:DA:H2'	176:Q2:20:DT:H72	2.00	0.44
183:QC:24:DT:H2'	183:QC:25:DT:H71	2.00	0.44
183:QC:25:DT:H2'	183:QC:26:DT:H71	2.00	0.44
183:QC:26:DT:H2'	183:QC:27:DT:H71	2.00	0.44
189:R8:24:DA:H2'	189:R8:25:DT:H72	2.00	0.44
194:S2:4:DG:H1'	198:S8:25:DT:H5'	2.00	0.44
197:S7:18:DA:H2'	197:S7:19:DT:H72	2.00	0.44
203:T2:22:DG:H1'	203:T2:23:DT:H5'	2.00	0.44
206:T7:21:DG:H1'	206:T7:22:DA:H5'	1.98	0.44
219:UC:6:DC:H2'	219:UC:7:DT:H71	1.99	0.44
220:UD:11:DT:H2'	220:UD:12:DT:H71	2.00	0.44
222:V3:22:DA:H2'	222:V3:23:DT:H72	2.00	0.44
224:V7:13:DA:H2'	224:V7:14:DT:H72	2.00	0.44
228:VC:1:DA:H2'	228:VC:2:DT:H72	2.00	0.44
228:VC:26:DA:H2'	228:VC:27:DT:H72	2.00	0.44
231:W5:9:DT:H2'	231:W5:10:DT:H71	2.00	0.44
237:X7:10:DT:H2'	237:X7:11:DT:H71	2.00	0.44
2:A2:9:DA:H2'	2:A2:10:DT:H72	2.00	0.43
3:A3:15:DA:H2'	3:A3:16:DT:H72	2.00	0.43
5:A5:10:DA:H2'	5:A5:11:DT:H72	2.00	0.43
7:A7:12:DA:H2'	7:A7:13:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:A9:1:DT:H72	67:FA:21:DA:H2'	2.00	0.43
11:AB:16:DG:H1'	11:AB:17:DT:H5'	2.00	0.43
11:AB:23:DA:H2'	11:AB:24:DT:H71	1.99	0.43
11:AB:94:DA:H2'	11:AB:95:DT:H72	2.00	0.43
11:AB:221:DT:H2'	11:AB:222:DT:H71	2.00	0.43
11:AB:223:DG:H1'	11:AB:224:DT:H5'	2.00	0.43
11:AB:319:DA:H2'	11:AB:320:DT:H72	2.00	0.43
11:AB:382:DT:H2'	11:AB:383:DT:H71	2.00	0.43
11:AB:454:DG:H1'	11:AB:455:DT:H5'	2.00	0.43
11:AB:568:DA:H2'	11:AB:569:DT:H72	2.00	0.43
11:AB:606:DA:H2'	11:AB:607:DT:H72	2.00	0.43
11:AB:652:DT:H2'	11:AB:653:DT:H71	2.00	0.43
11:AB:653:DT:H2'	11:AB:654:DT:H71	2.00	0.43
11:AB:704:DG:H1'	11:AB:705:DT:H5'	2.00	0.43
11:AB:1014:DA:H2'	11:AB:1015:DT:H72	2.00	0.43
11:AB:1201:DA:H2'	11:AB:1202:DT:H71	1.99	0.43
11:AB:1253:DA:H2'	11:AB:1254:DT:H72	2.00	0.43
11:AB:1374:DA:H2'	11:AB:1375:DT:H72	2.00	0.43
11:AB:1499:DC:H2'	11:AB:1500:DT:H71	1.99	0.43
11:AB:1652:DA:H2'	11:AB:1653:DT:H72	2.00	0.43
11:AB:1678:DT:H2'	11:AB:1679:DT:H71	2.00	0.43
11:AB:1719:DT:H2'	11:AB:1720:DT:H71	2.00	0.43
11:AB:1801:DC:H2'	11:AB:1802:DT:H71	1.99	0.43
11:AB:1999:DA:H2'	11:AB:2000:DT:H72	2.00	0.43
11:AB:2056:DG:H1'	11:AB:2057:DT:H5'	2.00	0.43
11:AB:2130:DA:H2'	11:AB:2131:DT:H72	2.00	0.43
11:AB:2154:DA:H2'	11:AB:2155:DT:H72	2.00	0.43
11:AB:2200:DA:H2'	11:AB:2201:DT:H72	2.00	0.43
11:AB:2239:DG:H1'	11:AB:2240:DT:H5'	2.00	0.43
11:AB:2429:DT:H2'	11:AB:2430:DT:H71	2.00	0.43
11:AB:2552:DA:H2'	11:AB:2553:DT:H72	2.00	0.43
11:AB:2737:DA:H2'	11:AB:2738:DT:H72	2.00	0.43
11:AB:2791:DA:H2'	11:AB:2792:DT:H72	2.00	0.43
11:AB:2951:DG:H1'	11:AB:2952:DT:H5'	2.00	0.43
11:AB:2956:DG:H1'	11:AB:2957:DT:H5'	2.00	0.43
11:AB:2970:DA:H2'	11:AB:2971:DT:H72	2.00	0.43
11:AB:3094:DA:H2'	11:AB:3095:DT:H72	2.00	0.43
11:AB:3267:DA:H2'	11:AB:3268:DT:H72	2.00	0.43
11:AB:3388:DA:H2'	11:AB:3389:DT:H72	2.00	0.43
11:AB:3433:DT:H2'	11:AB:3434:DT:H71	2.00	0.43
11:AB:3482:DA:H2'	11:AB:3483:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3518:DG:H1'	11:AB:3519:DT:H5'	2.00	0.43
11:AB:3677:DG:H1'	11:AB:3678:DT:H5'	2.00	0.43
11:AB:3678:DT:H2'	11:AB:4519:DT:H71	2.00	0.43
11:AB:3787:DA:H2'	11:AB:3788:DT:H72	2.00	0.43
11:AB:3799:DA:H2'	11:AB:3800:DT:H72	2.00	0.43
11:AB:3929:DA:H2'	11:AB:3930:DT:H72	2.00	0.43
11:AB:4274:DT:H2'	11:AB:4275:DT:H71	2.00	0.43
11:AB:4293:DG:H1'	11:AB:4294:DT:H5'	2.00	0.43
11:AB:4423:DA:H2'	11:AB:4424:DT:H72	2.00	0.43
11:AB:4424:DT:H2'	11:AB:4425:DT:H71	2.00	0.43
11:AB:4482:DG:H1'	11:AB:4483:DT:H5'	2.00	0.43
11:AB:4697:DA:H2'	11:AB:4698:DT:H72	2.00	0.43
11:AB:4761:DA:H2'	11:AB:4762:DT:H72	2.00	0.43
11:AB:4977:DA:H2'	11:AB:4978:DT:H72	2.00	0.43
11:AB:5229:DT:H2'	11:AB:5230:DT:H71	2.00	0.43
11:AB:5346:DG:H1'	11:AB:5347:DT:H5'	2.00	0.43
11:AB:5448:DG:H1'	11:AB:5449:DT:H5'	2.00	0.43
11:AB:5465:DT:H2'	11:AB:5466:DT:H71	2.00	0.43
11:AB:5518:DA:H2'	11:AB:5519:DT:H72	2.00	0.43
11:AB:5573:DA:H2'	11:AB:5574:DT:H72	2.00	0.43
11:AB:5608:DT:H2'	11:AB:5609:DT:H71	2.00	0.43
11:AB:5730:DT:H2'	11:AB:5731:DT:H71	2.00	0.43
11:AB:5778:DT:H2'	11:AB:5779:DT:H71	2.00	0.43
11:AB:5951:DA:H2'	11:AB:5952:DT:H72	2.00	0.43
11:AB:6263:DA:H2'	11:AB:6264:DT:H72	2.00	0.43
11:AB:6343:DT:H2'	11:AB:6344:DT:H71	2.00	0.43
11:AB:6365:DA:H2'	11:AB:6366:DT:H72	2.00	0.43
11:AB:6371:DC:H2'	11:AB:6372:DT:H71	1.99	0.43
11:AB:6373:DA:H2'	11:AB:6374:DT:H72	2.00	0.43
11:AB:6439:DG:H1'	11:AB:6440:DT:H5'	2.00	0.43
11:AB:6460:DG:H1'	11:AB:6461:DT:H5'	2.00	0.43
11:AB:6516:DA:H2'	11:AB:6517:DT:H72	2.00	0.43
11:AB:6578:DT:H2'	11:AB:6579:DT:H71	2.00	0.43
11:AB:6596:DA:H2'	11:AB:6597:DT:H72	2.00	0.43
11:AB:6599:DT:H2'	11:AB:6600:DT:H71	2.00	0.43
11:AB:6663:DA:H2'	11:AB:6664:DT:H72	2.00	0.43
11:AB:6666:DA:H2'	11:AB:6667:DT:H72	2.00	0.43
11:AB:6712:DC:H2'	11:AB:6713:DT:H71	1.99	0.43
11:AB:6715:DG:H1'	11:AB:6716:DT:H5'	2.00	0.43
11:AB:7067:DT:H2'	11:AB:7068:DT:H71	2.00	0.43
19:B6:3:DA:H2'	19:B6:4:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:C3:16:DA:H2'	204:T3:36:DT:H72	2.00	0.43
32:C8:13:DT:H2'	32:C8:14:DT:H71	2.00	0.43
34:CA:5:DA:H2'	34:CA:6:DT:H72	2.00	0.43
34:CA:13:DG:H1'	34:CA:14:DT:H5'	2.00	0.43
35:CC:24:DA:H2'	35:CC:25:DT:H72	2.00	0.43
36:CD:16:DT:H2'	36:CD:17:DT:H71	2.00	0.43
36:CD:17:DT:H2'	36:CD:18:DT:H71	2.00	0.43
39:D3:18:DA:H2'	103:J1:22:DT:H71	2.00	0.43
40:D5:14:DA:H2'	40:D5:15:DT:H72	2.00	0.43
41:D6:21:DA:H2'	211:TD:22:DT:H72	2.00	0.43
47:DD:13:DA:H2'	47:DD:14:DT:H72	2.00	0.43
49:E2:25:DT:H2'	49:E2:26:DT:H71	2.00	0.43
51:E5:14:DT:H5'	93:I2:21:DG:H1'	2.00	0.43
51:E5:30:DA:H2'	51:E5:31:DT:H72	2.00	0.43
53:E7:8:DA:H2'	53:E7:9:DT:H72	2.00	0.43
55:E9:9:DT:H2'	55:E9:10:DT:H71	2.00	0.43
60:F2:17:DA:H2'	60:F2:18:DT:H72	2.00	0.43
62:F5:32:DT:H72	197:S7:17:DA:H2'	2.00	0.43
62:F5:37:DA:H2'	62:F5:38:DT:H72	2.00	0.43
67:FA:6:DG:H1'	67:FA:7:DT:H5'	2.00	0.43
67:FA:10:DT:H2'	67:FA:11:DT:H71	2.00	0.43
69:FD:21:DA:H2'	225:V8:18:DT:H71	2.00	0.43
70:G1:16:DG:H1'	70:G1:17:DT:H5'	2.00	0.43
74:G6:9:DG:H1'	74:G6:10:DT:H5'	2.00	0.43
79:GC:15:DT:H72	98:I8:30:DA:H2'	2.00	0.43
80:GD:6:DA:H2'	80:GD:7:DT:H72	2.00	0.43
82:H2:32:DC:H2'	82:H2:33:DT:H71	1.99	0.43
86:H7:9:DT:H2'	86:H7:10:DT:H71	2.00	0.43
87:H8:6:DT:H2'	87:H8:7:DT:H71	2.00	0.43
88:H9:8:DA:H2'	88:H9:9:DT:H72	2.00	0.43
89:HA:16:DT:H2'	89:HA:17:DT:H71	2.00	0.43
92:I1:9:DA:H2'	92:I1:10:DT:H71	2.00	0.43
94:I3:12:DA:H2'	94:I3:13:DT:H72	2.00	0.43
95:I5:34:DG:H1'	95:I5:35:DT:H5'	2.00	0.43
108:J7:29:DT:H72	222:V3:4:DA:H2'	2.00	0.43
109:J8:20:DA:H2'	109:J8:21:DT:H72	2.00	0.43
117:K5:5:DA:H2'	117:K5:6:DT:H72	2.00	0.43
117:K5:12:DT:H72	205:T5:9:DA:H2'	2.00	0.43
119:K7:23:DA:H2'	119:K7:24:DT:H72	2.00	0.43
119:K7:41:DT:H2'	119:K7:42:DT:H71	2.00	0.43
120:K8:12:DT:H72	185:R2:7:DA:H2'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
121:K9:20:DG:H1'	200:SA:17:DT:H5'	2.00	0.43
122:KA:29:DT:H5'	124:KD:16:DG:H1'	2.00	0.43
125:L1:30:DT:H2'	125:L1:31:DT:H71	2.00	0.43
125:L1:42:DA:H2'	125:L1:43:DT:H72	2.00	0.43
128:L5:8:DT:H2'	128:L5:9:DT:H71	2.00	0.43
130:L7:53:DA:H2'	130:L7:54:DT:H72	2.00	0.43
131:L8:13:DT:H2'	131:L8:14:DT:H71	2.00	0.43
133:LA:20:DT:H2'	133:LA:21:DT:H71	2.00	0.43
138:M5:8:DA:H2'	138:M5:9:DT:H72	2.00	0.43
138:M5:19:DA:H2'	138:M5:20:DT:H72	2.00	0.43
138:M5:38:DT:H2'	138:M5:39:DT:H71	2.00	0.43
142:M9:17:DT:H72	173:PA:14:DA:H2'	2.00	0.43
143:MA:32:DC:H2'	143:MA:33:DT:H71	1.98	0.43
145:MD:28:DA:H2'	145:MD:29:DT:H72	2.00	0.43
146:N2:10:DA:H2'	146:N2:11:DT:H72	2.00	0.43
147:N3:31:DA:H2'	147:N3:32:DT:H72	2.00	0.43
149:N6:5:DT:H2'	149:N6:6:DT:H71	2.00	0.43
150:N7:7:DA:H2'	150:N7:8:DT:H72	2.00	0.43
157:O3:15:DA:H2'	157:O3:16:DT:H72	2.00	0.43
158:O5:22:DA:H2'	158:O5:23:DT:H72	2.00	0.43
160:O7:50:DT:H2'	160:O7:51:DT:H71	2.00	0.43
165:OD:46:DA:H2'	165:OD:47:DT:H72	2.00	0.43
165:OD:56:DC:H2'	165:OD:57:DT:H71	1.99	0.43
166:P2:22:DG:H1'	166:P2:23:DT:H5'	2.00	0.43
170:P7:21:DA:H2'	170:P7:22:DT:H72	2.00	0.43
181:Q9:28:DT:H2'	181:Q9:29:DT:H71	2.00	0.43
182:QA:26:DA:H2'	182:QA:27:DT:H72	2.00	0.43
184:QD:30:DA:H2'	184:QD:31:DT:H72	2.00	0.43
185:R2:21:DA:H2'	185:R2:22:DT:H72	2.00	0.43
186:R3:16:DT:H2'	186:R3:17:DT:H71	2.00	0.43
187:R5:12:DC:H2'	187:R5:13:DT:H71	1.99	0.43
192:RC:28:DG:H1'	192:RC:29:DT:H5'	2.00	0.43
193:RD:11:DA:H2'	193:RD:12:DT:H72	2.00	0.43
198:S8:12:DA:H2'	198:S8:13:DT:H72	2.00	0.43
198:S8:40:DT:H2'	198:S8:41:DT:H71	2.00	0.43
202:SD:21:DA:H2'	202:SD:22:DT:H72	2.00	0.43
209:TA:2:DA:H2'	209:TA:3:DT:H72	2.00	0.43
224:V7:17:DA:H2'	224:V7:18:DT:H72	2.00	0.43
226:V9:32:DA:H2'	226:V9:33:DT:H72	2.00	0.43
230:W3:44:DA:H2'	230:W3:45:DT:H72	2.00	0.43
5:A5:36:DT:H72	37:D1:14:DA:H2'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A7:28:DT:C2'	7:A7:29:DT:H72	2.48	0.43
7:A7:28:DT:H5'	118:K6:13:DG:H1'	2.00	0.43
10:AA:15:DA:H2'	10:AA:16:DT:H72	2.00	0.43
11:AB:29:DG:H1'	11:AB:30:DT:H5'	2.00	0.43
11:AB:193:DA:H2'	11:AB:194:DT:H72	2.00	0.43
11:AB:330:DG:H1'	11:AB:331:DT:H5'	2.00	0.43
11:AB:346:DG:H1'	11:AB:347:DT:H5'	2.00	0.43
11:AB:412:DG:H1'	11:AB:413:DT:H5'	2.00	0.43
11:AB:571:DC:H2'	11:AB:572:DT:H71	1.99	0.43
11:AB:592:DC:H2'	11:AB:593:DT:H71	1.99	0.43
11:AB:631:DA:H2'	11:AB:632:DT:H72	2.00	0.43
11:AB:695:DT:H2'	11:AB:696:DT:H71	2.00	0.43
11:AB:793:DA:H2'	11:AB:794:DT:H72	2.00	0.43
11:AB:801:DG:H1'	11:AB:802:DT:H5'	2.00	0.43
11:AB:853:DC:H2'	11:AB:854:DT:H71	1.99	0.43
11:AB:955:DG:H1'	11:AB:956:DT:H5'	2.00	0.43
11:AB:1098:DA:H2'	11:AB:1099:DT:H72	2.00	0.43
11:AB:1219:DA:H2'	11:AB:1220:DT:H72	2.00	0.43
11:AB:1297:DA:H2'	11:AB:1298:DT:H72	2.00	0.43
11:AB:1401:DA:H2'	11:AB:1402:DT:H72	2.00	0.43
11:AB:1408:DG:H1'	11:AB:1409:DT:H5'	2.00	0.43
11:AB:1489:DG:H1'	11:AB:1490:DT:H5'	2.00	0.43
11:AB:1538:DA:H2'	11:AB:1539:DT:H72	2.00	0.43
11:AB:1539:DT:H2'	11:AB:1540:DT:H71	2.00	0.43
11:AB:1665:DA:H2'	11:AB:1666:DT:H71	2.00	0.43
11:AB:1793:DA:H2'	11:AB:1794:DT:H72	2.00	0.43
11:AB:1825:DG:H1'	11:AB:1826:DT:H5'	2.00	0.43
11:AB:1933:DT:H2'	11:AB:1934:DT:H71	2.00	0.43
11:AB:2104:DA:H2'	11:AB:2105:DT:H72	2.00	0.43
11:AB:2114:DA:H2'	11:AB:2115:DT:H71	1.99	0.43
11:AB:2197:DT:H2'	11:AB:2198:DT:H71	2.00	0.43
11:AB:2341:DG:H1'	11:AB:2342:DT:H5'	2.00	0.43
11:AB:2410:DA:H2'	11:AB:2411:DT:H72	2.00	0.43
11:AB:2473:DA:H2'	11:AB:2474:DT:H72	2.00	0.43
11:AB:2492:DA:H2'	11:AB:2493:DT:H72	2.00	0.43
11:AB:2796:DA:H2'	11:AB:2797:DT:H72	2.00	0.43
11:AB:2813:DA:H2'	11:AB:2814:DT:H72	2.00	0.43
11:AB:2944:DG:H1'	11:AB:2945:DT:H5'	2.01	0.43
11:AB:2990:DA:H2'	11:AB:2991:DT:H72	2.00	0.43
11:AB:3061:DA:H2'	11:AB:3062:DT:H72	2.00	0.43
11:AB:3102:DA:H2'	11:AB:3103:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3179:DA:H2'	11:AB:3180:DT:H72	2.00	0.43
11:AB:3282:DA:H2'	11:AB:3283:DT:H72	2.00	0.43
11:AB:3299:DA:H2'	11:AB:3300:DT:H72	2.00	0.43
11:AB:3303:DA:H2'	11:AB:3304:DT:H72	2.00	0.43
11:AB:3314:DG:H1'	11:AB:3315:DT:H5'	2.00	0.43
11:AB:3328:DA:H2'	11:AB:3329:DT:H72	2.00	0.43
11:AB:3395:DG:H1'	11:AB:3396:DT:H5'	2.00	0.43
11:AB:3400:DA:H2'	11:AB:3401:DT:H72	2.00	0.43
11:AB:3431:DA:H2'	11:AB:3432:DT:H72	2.00	0.43
11:AB:3651:DT:H5'	11:AB:4658:DG:H1'	2.00	0.43
11:AB:3857:DA:H2'	11:AB:3858:DT:H72	2.00	0.43
11:AB:4054:DA:H2'	11:AB:4055:DT:H72	2.00	0.43
11:AB:4272:DA:H2'	11:AB:4273:DT:H72	2.00	0.43
11:AB:4685:DG:H1'	11:AB:4686:DT:H5'	2.00	0.43
11:AB:4738:DA:H2'	11:AB:4739:DT:H71	2.00	0.43
11:AB:4884:DG:H1'	11:AB:4885:DT:H5'	2.00	0.43
11:AB:4917:DA:H2'	11:AB:4918:DT:H72	2.00	0.43
11:AB:4932:DA:H2'	11:AB:4933:DT:H72	2.00	0.43
11:AB:5117:DA:H2'	11:AB:5118:DT:H72	2.00	0.43
11:AB:5138:DA:H2'	11:AB:5139:DT:H72	2.00	0.43
11:AB:5172:DA:H2'	11:AB:5173:DT:H72	2.00	0.43
11:AB:5226:DA:H2'	11:AB:5227:DT:H72	2.00	0.43
11:AB:5267:DA:H2'	11:AB:5268:DT:H72	2.00	0.43
11:AB:5400:DA:H2'	11:AB:5401:DT:H72	2.00	0.43
11:AB:5494:DA:H2'	11:AB:5495:DT:H72	2.00	0.43
11:AB:5544:DA:H2'	11:AB:5545:DT:H72	2.00	0.43
11:AB:5669:DA:H2'	11:AB:5670:DT:H72	2.00	0.43
11:AB:5914:DG:H1'	11:AB:5915:DT:H5'	2.00	0.43
11:AB:6008:DA:H2'	11:AB:6009:DT:H71	1.99	0.43
11:AB:6037:DA:H2'	11:AB:6038:DT:H72	2.00	0.43
11:AB:6045:DA:H2'	11:AB:6046:DT:H72	2.00	0.43
11:AB:6080:DA:H2'	11:AB:6081:DT:H72	1.99	0.43
11:AB:6256:DA:H2'	11:AB:6257:DT:H72	2.00	0.43
11:AB:6322:DA:H2'	11:AB:6323:DT:H71	1.99	0.43
11:AB:6428:DA:H2'	11:AB:6429:DT:H72	2.00	0.43
11:AB:6487:DT:H2'	11:AB:6488:DT:H71	2.00	0.43
11:AB:6560:DA:H2'	11:AB:6561:DT:H72	2.00	0.43
11:AB:6634:DG:H1'	11:AB:6635:DT:H5'	2.00	0.43
11:AB:6643:DA:H2'	11:AB:6644:DT:H72	2.00	0.43
11:AB:6698:DA:H2'	11:AB:6699:DT:H71	2.00	0.43
11:AB:6863:DT:H2'	11:AB:6864:DT:H71	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6959:DA:H2'	11:AB:6960:DT:H72	2.00	0.43
11:AB:6970:DA:H2'	11:AB:6971:DT:H71	2.00	0.43
11:AB:6992:DG:H1'	11:AB:6993:DT:H5'	2.00	0.43
11:AB:7019:DG:H1'	11:AB:7020:DT:H5'	2.00	0.43
11:AB:7136:DG:H1'	11:AB:7137:DT:H5'	2.00	0.43
11:AB:7203:DA:H2'	11:AB:7204:DT:H72	2.00	0.43
13:AD:7:DA:H2'	13:AD:8:DT:H72	2.00	0.43
13:AD:19:DA:H2'	13:AD:20:DT:H71	1.99	0.43
18:B5:26:DA:H2'	18:B5:27:DT:H72	2.00	0.43
20:B7:21:DG:H1'	20:B7:22:DT:H5'	2.00	0.43
21:B8:23:DT:H72	139:M6:14:DA:H2'	2.00	0.43
23:BA:13:DA:H2'	23:BA:14:DT:H71	2.00	0.43
23:BA:24:DC:H2'	23:BA:25:DT:H71	1.98	0.43
33:C9:25:DA:H2'	33:C9:26:DT:H71	2.00	0.43
34:CA:2:DA:H2'	34:CA:3:DT:H72	2.00	0.43
36:CD:8:DT:H71	69:FD:7:DA:H2'	2.00	0.43
39:D3:16:DA:H2'	39:D3:17:DT:H72	2.00	0.43
43:D8:1:DT:H71	230:W3:49:DA:H2'	2.00	0.43
46:DC:14:DG:H1'	46:DC:15:DT:H5'	2.00	0.43
48:E1:26:DG:H1'	48:E1:27:DT:H5'	2.00	0.43
50:E3:10:DA:H2'	50:E3:11:DT:H72	2.00	0.43
52:E6:9:DA:H2'	52:E6:10:DT:H72	2.00	0.43
54:E8:16:DA:H2'	109:J8:22:DT:H71	2.00	0.43
55:E9:15:DA:H2'	55:E9:16:DT:H72	2.00	0.43
56:EA:15:DG:H1'	56:EA:16:DT:H5'	2.00	0.43
67:FA:9:DA:H2'	67:FA:10:DT:H72	2.00	0.43
67:FA:24:DT:H2'	67:FA:25:DT:H71	2.00	0.43
69:FD:35:DA:H2'	69:FD:36:DT:H71	2.00	0.43
84:H5:27:DT:H5'	214:U5:7:DG:H1'	2.00	0.43
94:I3:10:DA:H2'	165:OD:43:DT:H72	2.00	0.43
94:I3:23:DA:H2'	94:I3:24:DT:H72	2.00	0.43
114:K1:36:DA:H2'	114:K1:37:DT:H72	2.00	0.43
116:K3:16:DG:H1'	116:K3:17:DA:H5'	1.98	0.43
120:K8:18:DA:H2'	120:K8:19:DT:H72	2.00	0.43
121:K9:14:DT:H72	145:MD:37:DA:H2'	2.00	0.43
125:L1:16:DA:H2'	125:L1:17:DT:H72	2.00	0.43
132:L9:7:DA:H2'	132:L9:8:DT:H71	2.00	0.43
141:M8:10:DA:H2'	141:M8:11:DT:H72	2.00	0.43
143:MA:34:DG:H1'	190:R9:19:DT:H5'	2.00	0.43
145:MD:10:DT:H72	226:V9:11:DA:H2'	2.00	0.43
149:N6:8:DA:H2'	149:N6:9:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
151:N8:12:DA:H2'	151:N8:13:DT:H72	2.00	0.43
154:NC:10:DG:H1'	174:PC:21:DT:H5'	2.00	0.43
161:O8:41:DA:H2'	161:O8:42:DT:H72	2.00	0.43
167:P3:26:DA:H2'	167:P3:27:DT:H72	2.00	0.43
171:P8:25:DA:H2'	171:P8:26:DT:H72	2.00	0.43
172:P9:9:DA:H2'	172:P9:10:DT:H71	2.00	0.43
181:Q9:27:DA:H2'	181:Q9:28:DT:H72	2.00	0.43
184:QD:31:DT:H2'	190:R9:1:DT:H71	2.00	0.43
187:R5:14:DG:H1'	223:V5:35:DT:H5'	2.00	0.43
190:R9:35:DA:H2'	190:R9:36:DT:H71	1.99	0.43
198:S8:30:DA:H2'	198:S8:31:DT:H72	2.00	0.43
200:SA:9:DA:H2'	200:SA:10:DT:H71	2.00	0.43
200:SA:22:DA:H2'	200:SA:23:DT:H72	2.00	0.43
201:SC:2:DA:H2'	201:SC:3:DT:H72	2.00	0.43
208:T9:11:DA:H2'	208:T9:12:DT:H72	2.00	0.43
211:TD:36:DA:H2'	211:TD:37:DT:H72	1.99	0.43
214:U5:1:DA:H2'	214:U5:2:DT:H72	2.00	0.43
215:U7:21:DG:H1'	215:U7:22:DT:H5'	2.00	0.43
219:UC:22:DA:H2'	219:UC:23:DT:H72	2.00	0.43
221:V2:3:DA:H2'	221:V2:4:DT:H72	2.00	0.43
227:VA:24:DG:H1'	227:VA:25:DT:H5'	2.00	0.43
229:VD:19:DA:H2'	229:VD:20:DT:H72	2.00	0.43
230:W3:1:DA:H2'	230:W3:2:DT:H72	2.00	0.43
230:W3:10:DA:H2'	230:W3:11:DT:H71	1.99	0.43
231:W5:30:DT:H2'	231:W5:31:DT:H71	2.00	0.43
236:X5:22:DA:H2'	236:X5:23:DT:H72	2.00	0.43
238:X9:37:DG:H1'	238:X9:38:DT:H5'	2.00	0.43
238:X9:45:DA:H2'	238:X9:46:DT:H71	2.00	0.43
8:A8:11:DA:H2'	8:A8:12:DT:H72	2.00	0.43
11:AB:107:DA:H2'	11:AB:108:DT:H71	2.00	0.43
11:AB:289:DG:H1'	11:AB:290:DT:H5'	2.00	0.43
11:AB:301:DA:H2'	11:AB:302:DT:H72	2.00	0.43
11:AB:310:DG:H1'	11:AB:311:DT:H5'	2.00	0.43
11:AB:381:DA:H2'	11:AB:382:DT:H72	2.00	0.43
11:AB:387:DC:H2'	11:AB:388:DT:H71	1.99	0.43
11:AB:446:DT:H2'	11:AB:447:DT:H71	2.00	0.43
11:AB:729:DA:H2'	11:AB:730:DT:H72	2.00	0.43
11:AB:850:DA:H2'	11:AB:851:DT:H72	2.00	0.43
11:AB:1132:DC:H2'	11:AB:1133:DT:H71	1.99	0.43
11:AB:1232:DA:H2'	11:AB:1233:DT:H72	2.00	0.43
11:AB:1256:DG:H1'	11:AB:6301:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1418:DG:H1'	11:AB:1419:DT:H5'	2.00	0.43
11:AB:1549:DA:H2'	11:AB:1550:DT:H72	2.00	0.43
11:AB:1562:DC:H2'	11:AB:1563:DT:H71	1.99	0.43
11:AB:1762:DA:H2'	11:AB:1763:DT:H72	2.00	0.43
11:AB:1830:DA:H2'	11:AB:1831:DT:H72	2.00	0.43
11:AB:1974:DA:H2'	11:AB:1975:DT:H72	2.00	0.43
11:AB:2085:DA:H2'	11:AB:2086:DT:H72	2.00	0.43
11:AB:2096:DG:H1'	11:AB:2097:DT:H5'	2.00	0.43
11:AB:2220:DA:H2'	11:AB:2221:DT:H72	2.00	0.43
11:AB:2246:DA:H2'	11:AB:2247:DT:H71	2.00	0.43
11:AB:2256:DA:H2'	11:AB:2257:DT:H72	2.00	0.43
11:AB:2342:DT:C2'	11:AB:2343:DT:H72	2.48	0.43
11:AB:2404:DA:H2'	11:AB:2405:DT:H72	2.00	0.43
11:AB:2504:DA:H2'	11:AB:2505:DT:H72	2.00	0.43
11:AB:2546:DA:H2'	11:AB:2547:DT:H72	2.00	0.43
11:AB:2574:DA:H2'	11:AB:2575:DT:H72	2.00	0.43
11:AB:2595:DG:H1'	11:AB:2596:DT:H5'	2.00	0.43
11:AB:2751:DA:H2'	11:AB:2752:DT:H72	2.00	0.43
11:AB:2838:DA:H2'	11:AB:2839:DT:H72	2.00	0.43
11:AB:2913:DA:H2'	11:AB:2914:DT:H72	2.00	0.43
11:AB:3128:DA:H2'	11:AB:3129:DT:H71	1.99	0.43
11:AB:3152:DG:H1'	11:AB:3153:DT:H5'	2.00	0.43
11:AB:3173:DA:H2'	11:AB:3174:DT:H72	2.00	0.43
11:AB:3185:DC:H2'	11:AB:3186:DT:H71	1.99	0.43
11:AB:3232:DG:H1'	11:AB:3233:DT:H5'	2.00	0.43
11:AB:3280:DT:H2'	11:AB:3281:DT:H71	2.00	0.43
11:AB:3286:DA:H2'	11:AB:3287:DT:H72	2.00	0.43
11:AB:3402:DA:H2'	11:AB:3403:DT:H71	2.00	0.43
11:AB:3409:DG:H1'	11:AB:3410:DT:H5'	2.00	0.43
11:AB:3434:DT:H2'	11:AB:3435:DT:H71	2.00	0.43
11:AB:3525:DG:H1'	11:AB:3526:DT:H5'	2.00	0.43
11:AB:3526:DT:C2'	11:AB:3527:DT:H72	2.48	0.43
11:AB:3558:DA:H2'	11:AB:3559:DT:H72	2.00	0.43
11:AB:3764:DC:H2'	11:AB:3765:DT:H71	1.99	0.43
11:AB:3818:DG:H1'	11:AB:3819:DT:H5'	2.00	0.43
11:AB:3941:DC:H2'	11:AB:3942:DT:H71	1.99	0.43
11:AB:4029:DG:H1'	11:AB:4030:DT:H5'	2.00	0.43
11:AB:4344:DG:H1'	11:AB:4345:DT:H5'	2.00	0.43
11:AB:4620:DA:H2'	11:AB:4621:DT:H72	2.00	0.43
11:AB:4679:DA:H2'	11:AB:4680:DT:H72	2.00	0.43
11:AB:5029:DG:H1'	11:AB:5030:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5088:DA:H2'	11:AB:5089:DT:H72	2.00	0.43
11:AB:5124:DG:H1'	11:AB:5125:DT:H5'	2.00	0.43
11:AB:5317:DT:C2'	11:AB:5318:DT:H72	2.48	0.43
11:AB:5417:DA:H2'	11:AB:5418:DT:H71	2.00	0.43
11:AB:6374:DT:H2'	11:AB:6375:DT:H71	2.00	0.43
11:AB:6414:DC:H2'	11:AB:6415:DT:H71	1.99	0.43
11:AB:6452:DA:H2'	11:AB:6453:DT:H72	2.00	0.43
11:AB:6507:DA:H2'	11:AB:6508:DT:H72	2.00	0.43
11:AB:6653:DG:H1'	11:AB:6654:DT:H5'	2.00	0.43
11:AB:6760:DG:H1'	11:AB:6761:DT:H5'	2.00	0.43
11:AB:6793:DT:H2'	11:AB:6794:DT:H71	2.00	0.43
11:AB:6888:DC:H2'	11:AB:6889:DT:H71	1.99	0.43
11:AB:6894:DA:H2'	11:AB:6895:DT:H71	1.99	0.43
11:AB:6923:DG:H1'	11:AB:6924:DT:H5'	2.00	0.43
11:AB:7043:DT:H2'	11:AB:7044:DT:H71	2.00	0.43
11:AB:7157:DG:H1'	11:AB:7158:DT:H5'	2.00	0.43
12:AC:9:DA:H2'	12:AC:10:DT:H72	2.00	0.43
14:B1:34:DC:H2'	14:B1:35:DT:H71	1.98	0.43
21:B8:4:DT:H2'	21:B8:5:DT:H71	2.00	0.43
23:BA:21:DA:H2'	23:BA:22:DT:H72	2.00	0.43
23:BA:28:DT:C2'	23:BA:29:DT:H72	2.48	0.43
36:CD:24:DA:H2'	36:CD:25:DT:H71	1.99	0.43
37:D1:3:DA:H2'	37:D1:4:DT:H72	2.00	0.43
40:D5:16:DT:H2'	231:W5:28:DT:H71	2.00	0.43
45:DA:5:DA:H2'	45:DA:6:DT:H72	2.00	0.43
48:E1:19:DA:H2'	48:E1:20:DT:H72	2.00	0.43
49:E2:10:DA:H2'	49:E2:11:DT:H72	2.00	0.43
50:E3:14:DA:H2'	181:Q9:33:DT:H71	2.00	0.43
53:E7:1:DG:H1'	53:E7:2:DT:H5'	2.00	0.43
53:E7:4:DA:H2'	53:E7:5:DT:H71	1.99	0.43
58:ED:37:DG:H1'	58:ED:38:DT:H5'	2.00	0.43
61:F3:14:DA:H2'	220:UD:17:DT:H71	2.00	0.43
62:F5:5:DA:H2'	62:F5:6:DT:H72	2.00	0.43
70:G1:12:DA:H2'	70:G1:13:DT:H72	2.00	0.43
85:H6:14:DA:H2'	149:N6:31:DT:H72	2.00	0.43
86:H7:7:DA:H2'	86:H7:8:DT:H72	2.00	0.43
88:H9:4:DT:H72	190:R9:25:DA:H2'	2.00	0.43
89:HA:14:DA:H2'	89:HA:15:DT:H72	2.00	0.43
93:I2:10:DA:H2'	93:I2:11:DT:H71	1.99	0.43
94:I3:6:DA:H2'	94:I3:7:DT:H71	1.99	0.43
102:ID:6:DA:H2'	102:ID:7:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
102:ID:26:DG:H1'	102:ID:27:DT:H5'	2.00	0.43
103:J1:15:DA:H2'	103:J1:16:DT:H72	2.00	0.43
104:J2:18:DC:H2'	104:J2:19:DT:H71	1.99	0.43
109:J8:16:DA:H2'	109:J8:17:DT:H72	2.00	0.43
112:JC:15:DT:H72	151:N8:10:DA:H2'	2.00	0.43
112:JC:21:DT:H2'	112:JC:22:DT:H71	2.00	0.43
114:K1:39:DC:H2'	114:K1:40:DT:H71	1.99	0.43
115:K2:5:DA:H2'	115:K2:6:DT:H71	1.99	0.43
117:K5:33:DA:H2'	117:K5:34:DT:H72	2.00	0.43
122:KA:16:DA:H2'	122:KA:17:DT:H72	2.00	0.43
126:L2:14:DA:H2'	126:L2:15:DT:H72	2.00	0.43
131:L8:12:DA:H2'	131:L8:13:DT:H72	2.00	0.43
134:LC:19:DG:H1'	134:LC:20:DT:H5'	2.00	0.43
148:N5:9:DT:H2'	148:N5:10:DT:H71	2.00	0.43
148:N5:32:DA:H2'	148:N5:33:DT:H72	2.00	0.43
152:N9:4:DG:H1'	152:N9:5:DT:H5'	2.00	0.43
158:O5:39:DA:H2'	158:O5:40:DT:H72	2.00	0.43
173:PA:15:DA:H2'	173:PA:16:DT:H72	2.00	0.43
178:Q5:12:DC:H2'	178:Q5:13:DT:H71	1.99	0.43
181:Q9:13:DA:H2'	181:Q9:14:DT:H72	2.00	0.43
181:Q9:31:DA:H2'	181:Q9:32:DT:H72	2.00	0.43
182:QA:6:DG:H1'	182:QA:7:DT:H5'	2.00	0.43
184:QD:14:DG:H1'	238:X9:11:DT:H5'	2.00	0.43
188:R7:18:DA:H2'	188:R7:19:DT:H72	2.00	0.43
198:S8:10:DT:H2'	198:S8:11:DT:H71	2.00	0.43
198:S8:39:DA:H2'	198:S8:40:DT:H72	2.00	0.43
207:T8:7:DG:H1'	207:T8:8:DT:H5'	2.00	0.43
213:U3:6:DG:H1'	213:U3:7:DT:H5'	2.00	0.43
215:U7:3:DA:H2'	215:U7:4:DT:H71	1.99	0.43
215:U7:19:DC:H2'	215:U7:20:DT:H71	1.99	0.43
219:UC:18:DG:H1'	219:UC:19:DT:H5'	2.00	0.43
222:V3:18:DA:H2'	222:V3:19:DT:H72	2.00	0.43
226:V9:2:DA:H2'	226:V9:3:DT:H72	2.00	0.43
230:W3:13:DG:H1'	230:W3:14:DT:H5'	2.00	0.43
232:W7:12:DG:H1'	232:W7:13:DT:H5'	2.00	0.43
2:A2:18:DT:H71	206:T7:45:DT:H2'	2.00	0.43
2:A2:21:DC:H2'	2:A2:22:DT:H71	1.99	0.43
5:A5:1:DT:H71	138:M5:42:DA:H2'	1.99	0.43
8:A8:12:DT:H2'	8:A8:13:DT:H71	2.01	0.43
11:AB:9:DG:H1'	11:AB:10:DT:H5'	2.00	0.43
11:AB:12:DA:H2'	11:AB:13:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:102:DA:H2'	11:AB:103:DT:H72	2.00	0.43
11:AB:362:DT:H2'	11:AB:363:DT:H71	2.00	0.43
11:AB:751:DG:H1'	11:AB:752:DT:H5'	2.00	0.43
11:AB:831:DC:H2'	11:AB:832:DT:H71	1.99	0.43
11:AB:880:DG:H1'	11:AB:881:DT:H5'	2.00	0.43
11:AB:895:DG:H1'	11:AB:896:DT:H5'	2.00	0.43
11:AB:916:DG:H1'	11:AB:917:DT:H5'	2.00	0.43
11:AB:976:DT:C2'	11:AB:977:DT:H72	2.48	0.43
11:AB:1096:DC:H2'	11:AB:1097:DT:H71	1.99	0.43
11:AB:1141:DA:H2'	11:AB:1142:DT:H72	2.00	0.43
11:AB:1304:DT:H2'	11:AB:1305:DT:H71	2.00	0.43
11:AB:1345:DT:H2'	11:AB:1346:DT:H71	2.00	0.43
11:AB:1437:DT:H2'	11:AB:1438:DT:H71	2.01	0.43
11:AB:1568:DA:H2'	11:AB:1569:DT:H72	1.99	0.43
11:AB:1860:DA:H2'	11:AB:1861:DT:H72	2.00	0.43
11:AB:1873:DT:H2'	11:AB:1874:DT:H71	2.01	0.43
11:AB:2025:DC:H2'	11:AB:2026:DT:H71	1.99	0.43
11:AB:2157:DG:H1'	11:AB:2158:DT:H5'	2.00	0.43
11:AB:2203:DG:H1'	11:AB:2204:DT:H5'	2.00	0.43
11:AB:2281:DC:H2'	11:AB:2282:DT:H71	1.99	0.43
11:AB:2329:DC:C6	11:AB:2330:DT:H72	2.54	0.43
11:AB:2363:DT:C2'	11:AB:2364:DT:H72	2.48	0.43
11:AB:2422:DA:H2'	11:AB:2423:DT:H71	1.99	0.43
11:AB:2444:DA:H2'	11:AB:2445:DT:H71	2.00	0.43
11:AB:2519:DT:C2'	11:AB:2520:DT:H72	2.48	0.43
11:AB:2624:DT:H2'	11:AB:2625:DT:H71	2.01	0.43
11:AB:2656:DG:H1'	11:AB:2657:DT:H5'	2.00	0.43
11:AB:2734:DG:H1'	11:AB:2735:DT:H5'	2.01	0.43
11:AB:2772:DA:H2'	11:AB:2773:DT:H72	2.00	0.43
11:AB:2804:DA:H2'	11:AB:2805:DT:H71	1.99	0.43
11:AB:2815:DT:H2'	11:AB:2816:DT:H71	2.00	0.43
11:AB:2852:DC:C6	11:AB:2853:DT:H72	2.54	0.43
11:AB:2870:DA:H2'	11:AB:2871:DT:H72	2.00	0.43
11:AB:2903:DA:H2'	11:AB:2904:DT:H71	2.00	0.43
11:AB:2922:DA:H2'	11:AB:2923:DT:H72	2.00	0.43
11:AB:3029:DA:H2'	11:AB:3030:DT:H71	1.99	0.43
11:AB:3119:DA:H2'	11:AB:3120:DT:H72	2.00	0.43
11:AB:3131:DA:H2'	11:AB:3132:DT:H72	2.00	0.43
11:AB:3160:DT:H2'	11:AB:3161:DT:H71	2.00	0.43
11:AB:3223:DT:H2'	11:AB:3224:DT:H71	2.01	0.43
11:AB:3244:DT:H2'	11:AB:3245:DT:H71	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3310:DG:H1'	11:AB:3311:DT:H5'	2.00	0.43
11:AB:3335:DA:H2'	11:AB:3336:DT:H72	2.00	0.43
11:AB:3505:DT:C2'	11:AB:3506:DT:H72	2.48	0.43
11:AB:3531:DT:H72	11:AB:4790:DA:H2'	2.00	0.43
11:AB:3638:DG:H1'	11:AB:3639:DT:H5'	2.00	0.43
11:AB:3695:DC:H2'	11:AB:3696:DT:H71	1.99	0.43
11:AB:3703:DG:H1'	11:AB:3704:DT:H5'	2.00	0.43
11:AB:3851:DT:H2'	11:AB:3852:DT:H71	2.00	0.43
11:AB:3890:DG:H1'	11:AB:3891:DT:H5'	2.00	0.43
11:AB:3893:DA:H2'	11:AB:3894:DT:H72	2.00	0.43
11:AB:4349:DT:H2'	11:AB:4350:DT:H71	2.00	0.43
11:AB:4698:DT:H2'	11:AB:4699:DT:H71	2.01	0.43
11:AB:4727:DT:H2'	11:AB:4728:DT:H71	2.00	0.43
11:AB:4743:DG:H1'	11:AB:4744:DT:H5'	2.00	0.43
11:AB:4745:DG:H1'	11:AB:4746:DT:H5'	2.00	0.43
11:AB:4848:DA:H2'	11:AB:4849:DT:H72	2.00	0.43
11:AB:4905:DT:H2'	11:AB:4906:DT:H71	2.01	0.43
11:AB:5099:DG:H1'	11:AB:5100:DT:H5'	2.00	0.43
11:AB:5179:DG:H1'	11:AB:5180:DT:H5'	2.00	0.43
11:AB:5507:DA:H2'	11:AB:5508:DT:H71	1.99	0.43
11:AB:5522:DC:H2'	11:AB:5523:DT:H71	1.99	0.43
11:AB:5609:DT:H2'	11:AB:5610:DT:H71	2.00	0.43
11:AB:5879:DA:H2'	11:AB:5880:DT:H72	2.00	0.43
11:AB:6046:DT:H2'	11:AB:6047:DT:H71	2.01	0.43
11:AB:6312:DT:H2'	11:AB:6313:DT:H71	2.00	0.43
11:AB:6342:DA:H2'	11:AB:6343:DT:H72	2.00	0.43
11:AB:6417:DT:C2'	11:AB:6418:DT:H72	2.48	0.43
11:AB:6422:DG:H1'	11:AB:6423:DT:H5'	2.00	0.43
11:AB:6621:DG:H1'	11:AB:6622:DT:H5'	2.00	0.43
11:AB:6884:DT:H2'	11:AB:6885:DT:H71	2.00	0.43
11:AB:6955:DA:H2'	11:AB:6956:DT:H72	2.00	0.43
11:AB:7086:DA:H2'	11:AB:7087:DT:H72	2.00	0.43
11:AB:7197:DG:H1'	11:AB:7198:DT:H5'	2.01	0.43
13:AD:22:DG:H1'	13:AD:23:DT:H5'	2.00	0.43
18:B5:34:DA:H2'	18:B5:35:DT:H72	2.00	0.43
19:B6:8:DT:H5'	125:L1:7:DG:H1'	2.00	0.43
20:B7:14:DT:H71	97:I7:27:DT:H2'	2.00	0.43
22:B9:34:DG:H1'	22:B9:35:DT:H5'	2.00	0.43
22:B9:47:DG:H1'	22:B9:48:DT:H5'	2.00	0.43
26:C1:12:DT:H71	84:H5:12:DT:H2'	2.00	0.43
29:C5:1:DT:H5'	231:W5:35:DG:H1'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:CD:14:DG:H1'	156:O2:43:DT:H5'	2.00	0.43
36:CD:15:DA:H2'	36:CD:16:DT:H72	2.00	0.43
39:D3:10:DG:H1'	39:D3:11:DT:H5'	2.00	0.43
39:D3:21:DA:H2'	39:D3:22:DT:H71	1.99	0.43
44:D9:7:DG:H1'	44:D9:8:DT:H5'	2.00	0.43
45:DA:23:DA:H2'	45:DA:24:DT:H71	1.99	0.43
49:E2:17:DG:H1'	49:E2:18:DT:H5'	2.00	0.43
51:E5:21:DT:C2'	51:E5:22:DT:H72	2.48	0.43
54:E8:31:DT:C2'	54:E8:32:DT:H72	2.48	0.43
64:F7:3:DA:H2'	64:F7:4:DT:H72	2.00	0.43
74:G6:24:DA:H2'	74:G6:25:DT:H72	2.00	0.43
82:H2:15:DA:H2'	82:H2:16:DT:H72	2.00	0.43
89:HA:5:DA:H2'	89:HA:6:DT:H72	2.00	0.43
94:I3:2:DG:H1'	94:I3:3:DT:H5'	2.00	0.43
94:I3:41:DT:H2'	94:I3:42:DT:H71	2.01	0.43
97:I7:11:DG:H1'	97:I7:12:DT:H5'	2.00	0.43
105:J3:6:DT:H2'	105:J3:7:DT:H71	2.00	0.43
113:JD:29:DT:H5'	218:UA:14:DG:H1'	2.00	0.43
117:K5:13:DC:C6	117:K5:14:DT:H72	2.54	0.43
128:L5:7:DT:H2'	128:L5:8:DT:H71	2.00	0.43
134:LC:10:DG:H1'	134:LC:11:DT:H5'	2.00	0.43
142:M9:9:DA:H2'	142:M9:10:DT:H72	2.00	0.43
147:N3:14:DT:H2'	147:N3:15:DT:H71	2.00	0.43
149:N6:15:DA:H2'	149:N6:16:DT:H72	2.00	0.43
149:N6:40:DA:H2'	149:N6:41:DT:H72	2.00	0.43
155:ND:10:DG:H1'	155:ND:11:DT:H5'	2.00	0.43
156:O2:3:DA:H2'	156:O2:4:DT:H71	1.99	0.43
159:O6:1:DT:C2'	159:O6:2:DT:H72	2.48	0.43
162:O9:13:DT:H2'	191:RA:28:DT:H71	2.00	0.43
173:PA:31:DA:H2'	173:PA:32:DT:H72	2.00	0.43
179:Q7:13:DG:H1'	179:Q7:14:DT:H5'	2.00	0.43
179:Q7:16:DA:H2'	179:Q7:17:DT:H72	2.00	0.43
189:R8:20:DA:H2'	189:R8:21:DT:H72	2.00	0.43
190:R9:5:DT:C2'	190:R9:6:DT:H72	2.48	0.43
190:R9:19:DT:C2'	190:R9:20:DT:H72	2.48	0.43
194:S2:7:DA:H2'	194:S2:8:DT:H72	2.00	0.43
195:S3:27:DA:H2'	195:S3:28:DT:H72	2.00	0.43
204:T3:10:DA:H2'	204:T3:11:DT:H72	2.00	0.43
207:T8:9:DG:H1'	207:T8:10:DT:H5'	2.00	0.43
209:TA:19:DT:C2'	209:TA:20:DT:H72	2.48	0.43
213:U3:16:DG:H1'	213:U3:17:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
218:UA:3:DT:H2'	218:UA:4:DT:H71	2.01	0.43
219:UC:9:DT:H2'	219:UC:10:DT:H71	2.01	0.43
221:V2:21:DA:H2'	221:V2:22:DT:H71	1.99	0.43
3:A3:17:DG:H1'	3:A3:18:DT:H5'	2.00	0.43
6:A6:23:DG:H1'	6:A6:24:DT:H5'	2.00	0.43
8:A8:17:DA:H2'	8:A8:18:DT:H72	2.00	0.43
11:AB:150:DG:H1'	11:AB:151:DT:H5'	2.00	0.43
11:AB:188:DT:C2'	11:AB:189:DT:H72	2.48	0.43
11:AB:196:DC:C6	11:AB:197:DT:H72	2.54	0.43
11:AB:602:DT:H2'	11:AB:603:DT:H71	2.00	0.43
11:AB:655:DA:H2'	11:AB:656:DT:H72	1.99	0.43
11:AB:947:DT:H2'	11:AB:948:DT:H71	2.00	0.43
11:AB:1157:DT:C2'	11:AB:1158:DT:H72	2.48	0.43
11:AB:1222:DA:H2'	11:AB:1223:DT:H72	2.00	0.43
11:AB:1234:DA:H2'	11:AB:1235:DT:H72	2.00	0.43
11:AB:1312:DA:H2'	11:AB:1313:DT:H72	2.00	0.43
11:AB:1523:DT:C2'	11:AB:1524:DT:H72	2.48	0.43
11:AB:1532:DA:H2'	11:AB:1533:DT:H72	2.00	0.43
11:AB:1718:DT:H2'	11:AB:1719:DT:H71	2.00	0.43
11:AB:1812:DC:C6	11:AB:1813:DT:H72	2.54	0.43
11:AB:1845:DG:H1'	11:AB:1846:DT:H5'	2.00	0.43
11:AB:1930:DT:H2'	11:AB:1931:DT:H71	2.00	0.43
11:AB:1958:DA:H2'	11:AB:1959:DT:H71	1.99	0.43
11:AB:2029:DA:H2'	11:AB:2030:DT:H72	1.99	0.43
11:AB:2045:DG:H1'	11:AB:2046:DT:H5'	2.00	0.43
11:AB:2131:DT:H2'	11:AB:2132:DT:H71	2.01	0.43
11:AB:2181:DT:C2'	11:AB:2182:DT:H72	2.48	0.43
11:AB:2194:DT:H2'	11:AB:2195:DT:H71	2.00	0.43
11:AB:2221:DT:H2'	11:AB:2222:DT:H71	2.01	0.43
11:AB:2437:DC:H2'	11:AB:2438:DT:H71	1.99	0.43
11:AB:2441:DT:C2'	11:AB:2442:DT:H72	2.48	0.43
11:AB:2901:DG:H1'	11:AB:2902:DT:H5'	2.00	0.43
11:AB:2999:DA:H2'	11:AB:3000:DT:H72	2.00	0.43
11:AB:3003:DC:H2'	11:AB:3004:DT:H71	1.99	0.43
11:AB:3126:DA:H2'	11:AB:3127:DT:H72	1.99	0.43
11:AB:3147:DT:C2'	11:AB:3148:DT:H72	2.48	0.43
11:AB:3284:DC:H2'	11:AB:3285:DT:H71	1.99	0.43
11:AB:3330:DT:C2'	11:AB:3331:DT:H72	2.48	0.43
11:AB:3450:DC:C6	11:AB:3451:DT:H72	2.54	0.43
11:AB:3545:DA:H2'	11:AB:3546:DT:H72	2.00	0.43
11:AB:3614:DT:H2'	11:AB:3615:DT:H71	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3680:DG:H1'	11:AB:3681:DT:H5'	2.00	0.43
11:AB:3746:DT:H2'	11:AB:3747:DT:H71	2.00	0.43
11:AB:3760:DT:H2'	11:AB:3761:DT:H71	2.00	0.43
11:AB:3904:DC:H2'	11:AB:3905:DT:H71	1.99	0.43
11:AB:4042:DG:H1'	11:AB:4043:DT:H5'	2.00	0.43
11:AB:4097:DG:H1'	11:AB:4098:DT:H5'	2.00	0.43
11:AB:4136:DC:H2'	11:AB:4137:DT:H71	1.99	0.43
11:AB:4239:DG:H1'	11:AB:4240:DT:H5'	2.00	0.43
11:AB:4315:DG:H1'	11:AB:4316:DT:H5'	2.00	0.43
11:AB:4325:DC:H2'	11:AB:4326:DT:H71	1.99	0.43
11:AB:4425:DT:H2'	11:AB:4426:DT:H71	2.00	0.43
11:AB:4433:DT:C2'	11:AB:4434:DT:H72	2.48	0.43
11:AB:4856:DT:H2'	11:AB:4857:DT:H71	2.00	0.43
11:AB:5091:DC:H2'	11:AB:5092:DT:H71	1.99	0.43
11:AB:5140:DC:H2'	11:AB:5141:DT:H71	1.99	0.43
11:AB:5208:DG:H1'	11:AB:5209:DT:H5'	2.00	0.43
11:AB:5216:DC:H2'	11:AB:5217:DT:H71	1.99	0.43
11:AB:5374:DA:H2'	11:AB:5375:DT:H72	2.00	0.43
11:AB:5386:DT:C2'	11:AB:5387:DT:H72	2.48	0.43
11:AB:5540:DA:H2'	11:AB:5541:DT:H72	2.00	0.43
11:AB:5567:DA:H2'	11:AB:5568:DT:H72	2.00	0.43
11:AB:5638:DA:H2'	11:AB:5639:DT:H72	2.00	0.43
11:AB:5650:DA:H2'	11:AB:5651:DT:H72	2.00	0.43
11:AB:5735:DG:H1'	11:AB:5736:DT:H5'	2.00	0.43
11:AB:5796:DT:H2'	11:AB:5797:DT:H71	2.00	0.43
11:AB:5800:DC:H2'	11:AB:5801:DT:H71	1.99	0.43
11:AB:5861:DC:C6	11:AB:5862:DT:H72	2.54	0.43
11:AB:5981:DC:H2'	11:AB:5982:DT:H71	1.99	0.43
11:AB:5998:DT:H2'	11:AB:5999:DT:H71	2.00	0.43
11:AB:6006:DA:H2'	11:AB:6007:DT:H72	2.00	0.43
11:AB:6120:DG:H1'	11:AB:6121:DT:H5'	2.00	0.43
11:AB:6143:DT:H2'	11:AB:6144:DT:H71	2.01	0.43
11:AB:6160:DA:H2'	11:AB:6161:DT:H72	2.00	0.43
11:AB:6450:DT:H2'	11:AB:6451:DT:H71	2.01	0.43
11:AB:6494:DG:H1'	11:AB:6495:DT:H5'	2.00	0.43
11:AB:6569:DT:H2'	11:AB:6570:DT:H71	2.00	0.43
11:AB:6583:DT:C2'	11:AB:6584:DT:H72	2.48	0.43
11:AB:6586:DA:H2'	11:AB:6587:DT:H72	2.00	0.43
11:AB:6656:DA:H2'	11:AB:6657:DT:H72	2.00	0.43
11:AB:6870:DG:H1'	11:AB:6871:DT:H5'	2.00	0.43
11:AB:7184:DT:C2'	11:AB:7185:DT:H72	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:B1:13:DA:H2'	14:B1:14:DT:H72	2.00	0.43
17:B4:9:DA:H2'	17:B4:10:DT:H72	2.00	0.43
18:B5:38:DA:H2'	194:S2:1:DT:H72	2.00	0.43
19:B6:9:DG:H1'	19:B6:10:DT:H5'	2.00	0.43
21:B8:18:DA:H2'	21:B8:19:DT:H72	2.00	0.43
37:D1:34:DC:H2'	37:D1:35:DT:H71	1.99	0.43
39:D3:1:DT:H71	204:T3:45:DT:H2'	2.01	0.43
53:E7:2:DT:C2'	53:E7:3:DT:H72	2.48	0.43
58:ED:40:DA:H2'	58:ED:41:DT:H71	1.99	0.43
60:F2:29:DC:H2'	60:F2:30:DT:H71	1.99	0.43
62:F5:7:DC:H2'	62:F5:8:DT:H71	1.99	0.43
67:FA:15:DG:H1'	67:FA:16:DT:H5'	2.00	0.43
72:G3:1:DT:H71	83:H3:7:DT:H2'	2.00	0.43
83:H3:17:DT:H2'	83:H3:18:DT:H71	2.01	0.43
92:I1:6:DA:H2'	92:I1:7:DT:H72	2.00	0.43
100:IA:6:DG:H1'	100:IA:7:DT:H5'	2.00	0.43
100:IA:19:DA:H2'	100:IA:20:DT:H72	2.00	0.43
103:J1:26:DG:H1'	103:J1:27:DT:H5'	2.00	0.43
107:J6:10:DA:H2'	107:J6:11:DT:H72	2.00	0.43
108:J7:43:DT:H2'	108:J7:44:DT:H71	2.00	0.43
109:J8:47:DC:H2'	109:J8:48:DT:H71	1.99	0.43
117:K5:44:DG:H1'	117:K5:45:DT:H5'	2.00	0.43
118:K6:6:DT:H2'	118:K6:7:DT:H71	2.00	0.43
123:KC:26:DA:H2'	123:KC:27:DT:H72	2.00	0.43
124:KD:23:DG:H1'	132:L9:1:DT:H5'	2.01	0.43
145:MD:46:DG:H1'	145:MD:47:DT:H5'	2.00	0.43
148:N5:33:DT:H2'	148:N5:34:DT:H71	2.01	0.43
151:N8:13:DT:H2'	151:N8:14:DT:H71	2.01	0.43
152:N9:3:DG:H1'	190:R9:5:DT:H5'	2.00	0.43
152:N9:39:DA:H2'	152:N9:40:DT:H72	2.00	0.43
152:N9:45:DG:H1'	152:N9:46:DT:H5'	2.00	0.43
152:N9:49:DA:H2'	152:N9:50:DT:H72	2.00	0.43
156:O2:24:DA:H2'	156:O2:25:DT:H72	2.00	0.43
157:O3:19:DG:H1'	157:O3:20:DT:H5'	2.00	0.43
158:O5:33:DA:H2'	158:O5:34:DT:H72	2.00	0.43
159:O6:11:DG:H1'	159:O6:12:DT:H5'	2.00	0.43
161:O8:4:DT:H2'	183:QC:24:DT:H71	2.00	0.43
161:O8:21:DA:H2'	161:O8:22:DT:H72	2.00	0.43
162:O9:8:DC:C6	162:O9:9:DT:H72	2.54	0.43
165:OD:52:DA:H2'	165:OD:53:DT:H72	2.00	0.43
172:P9:5:DT:H2'	172:P9:6:DT:H71	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
180:Q8:19:DA:H2'	180:Q8:20:DT:H72	2.00	0.43
182:QA:11:DG:H1'	182:QA:12:DT:H5'	2.00	0.43
185:R2:1:DT:C2'	185:R2:2:DT:H72	2.48	0.43
193:RD:16:DA:H2'	193:RD:17:DT:H72	2.00	0.43
194:S2:25:DG:H1'	194:S2:26:DT:H5'	2.00	0.43
196:S5:29:DG:H1'	196:S5:30:DT:H5'	2.00	0.43
201:SC:3:DT:H2'	201:SC:4:DT:H71	2.01	0.43
208:T9:16:DA:H2'	208:T9:17:DT:H72	2.00	0.43
214:U5:18:DC:H2'	214:U5:19:DT:H71	1.99	0.43
218:UA:8:DG:H1'	218:UA:9:DT:H5'	2.00	0.43
221:V2:1:DC:H2'	221:V2:2:DT:H71	1.99	0.43
222:V3:7:DT:H2'	222:V3:8:DT:H71	2.01	0.43
223:V5:32:DG:H1'	223:V5:33:DT:H5'	2.00	0.43
227:VA:27:DC:C6	227:VA:28:DT:H72	2.54	0.43
230:W3:27:DA:H2'	230:W3:28:DT:H72	2.00	0.43
1:A1:29:DG:H1'	1:A1:30:DT:H5'	2.00	0.43
1:A1:53:DG:H1'	1:A1:54:DT:H5'	2.00	0.43
1:A1:55:DA:H2'	1:A1:56:DT:H72	2.00	0.43
2:A2:27:DT:H2'	2:A2:28:DT:H71	2.00	0.43
5:A5:1:DT:C2'	5:A5:2:DT:H72	2.48	0.43
7:A7:24:DA:H2'	7:A7:25:DT:H72	2.00	0.43
9:A9:11:DA:H2'	9:A9:12:DT:H72	2.00	0.43
11:AB:175:DC:C6	11:AB:176:DT:H72	2.54	0.43
11:AB:233:DA:H2'	11:AB:234:DT:H72	2.00	0.43
11:AB:251:DA:H2'	11:AB:252:DT:H72	2.00	0.43
11:AB:391:DC:C6	11:AB:392:DT:H72	2.54	0.43
11:AB:416:DC:C6	11:AB:417:DT:H72	2.54	0.43
11:AB:476:DG:H1'	11:AB:477:DT:H5'	2.00	0.43
11:AB:562:DA:H2'	11:AB:563:DT:H72	2.00	0.43
11:AB:595:DT:C2'	11:AB:596:DT:H72	2.48	0.43
11:AB:598:DA:H2'	11:AB:599:DT:H72	2.00	0.43
11:AB:697:DA:H2'	11:AB:698:DT:H72	1.99	0.43
11:AB:770:DT:H2'	11:AB:771:DT:H71	2.01	0.43
11:AB:874:DG:H1'	11:AB:875:DT:H5'	2.00	0.43
11:AB:979:DA:H2'	11:AB:980:DT:H72	2.00	0.43
11:AB:1030:DA:H2'	11:AB:1031:DT:H72	2.00	0.43
11:AB:1054:DC:H2'	11:AB:1055:DT:H71	1.99	0.43
11:AB:1069:DA:H2'	11:AB:1070:DT:H72	1.99	0.43
11:AB:1481:DG:H1'	11:AB:1482:DT:H5'	2.00	0.43
11:AB:1502:DC:C6	11:AB:1503:DT:H72	2.54	0.43
11:AB:1509:DT:H2'	11:AB:1510:DT:H71	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1542:DC:H2'	11:AB:1543:DT:H71	1.99	0.43
11:AB:1557:DT:H2'	11:AB:1558:DT:H71	2.00	0.43
11:AB:1619:DT:H2'	11:AB:1620:DT:H71	2.01	0.43
11:AB:1712:DT:H2'	11:AB:1713:DT:H71	2.00	0.43
11:AB:1771:DC:H2'	11:AB:1772:DT:H71	1.99	0.43
11:AB:1782:DG:H1'	11:AB:1783:DT:H5'	2.00	0.43
11:AB:2059:DC:H2'	11:AB:2060:DT:H71	1.99	0.43
11:AB:2065:DA:H2'	11:AB:2066:DT:H72	2.00	0.43
11:AB:2253:DC:H2'	11:AB:2254:DT:H71	1.99	0.43
11:AB:2285:DA:H2'	11:AB:2286:DT:H72	2.00	0.43
11:AB:2420:DT:C2'	11:AB:2421:DT:H72	2.48	0.43
11:AB:2528:DT:H71	11:AB:5283:DC:H2'	1.99	0.43
11:AB:2609:DC:H2'	11:AB:2610:DT:H71	1.99	0.43
11:AB:2669:DC:C6	11:AB:2670:DT:H72	2.54	0.43
11:AB:2682:DT:C2'	11:AB:2683:DT:H72	2.48	0.43
11:AB:2703:DT:C2'	11:AB:2704:DT:H72	2.48	0.43
11:AB:2706:DA:H2'	11:AB:2707:DT:H72	2.00	0.43
11:AB:2786:DT:H2'	11:AB:2787:DT:H71	2.01	0.43
11:AB:2830:DT:H2'	11:AB:2831:DT:H71	2.00	0.43
11:AB:2844:DT:C2'	11:AB:2845:DT:H72	2.48	0.43
11:AB:2942:DA:H2'	11:AB:2943:DT:H72	2.00	0.43
11:AB:2962:DG:H1'	11:AB:2963:DT:H5'	2.00	0.43
11:AB:2964:DA:H2'	11:AB:2965:DT:H72	2.00	0.43
11:AB:2972:DC:C6	11:AB:2973:DT:H72	2.54	0.43
11:AB:3083:DA:H2'	11:AB:3084:DT:H72	2.00	0.43
11:AB:3103:DT:H2'	11:AB:3104:DT:H71	2.01	0.43
11:AB:3143:DC:H2'	11:AB:3144:DT:H71	1.99	0.43
11:AB:3296:DC:C6	11:AB:3297:DT:H72	2.54	0.43
11:AB:3307:DG:H1'	11:AB:3308:DT:H5'	2.00	0.43
11:AB:3317:DC:C6	11:AB:3318:DT:H72	2.54	0.43
11:AB:3507:DA:H2'	11:AB:3508:DT:H72	2.00	0.43
11:AB:3532:DA:H2'	11:AB:3533:DT:H72	2.00	0.43
11:AB:3701:DA:H2'	11:AB:3702:DT:H72	2.00	0.43
11:AB:3707:DA:H2'	11:AB:3708:DT:H72	2.00	0.43
11:AB:3776:DC:C6	11:AB:3777:DT:H72	2.54	0.43
11:AB:3880:DG:H1'	11:AB:3881:DT:H5'	2.00	0.43
11:AB:3947:DA:H2'	11:AB:3948:DT:H72	2.00	0.43
11:AB:4355:DG:H1'	11:AB:4356:DT:H5'	2.00	0.43
11:AB:4373:DC:H2'	11:AB:4374:DT:H71	1.99	0.43
11:AB:4401:DC:H2'	11:AB:4402:DT:H71	1.99	0.43
11:AB:4504:DC:H2'	11:AB:4505:DT:H71	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4569:DC:H2'	11:AB:4570:DT:H71	1.99	0.43
11:AB:4594:DC:C6	11:AB:4595:DT:H72	2.54	0.43
11:AB:4862:DC:H2'	11:AB:4863:DT:H71	1.99	0.43
11:AB:5007:DA:H2'	11:AB:5008:DT:H72	2.00	0.43
11:AB:5456:DA:H2'	11:AB:5457:DT:H72	2.00	0.43
11:AB:5509:DC:C6	11:AB:5510:DT:H72	2.54	0.43
11:AB:5683:DG:H1'	11:AB:5684:DT:H5'	2.00	0.43
11:AB:5723:DA:H2'	11:AB:5724:DT:H72	2.00	0.43
11:AB:6060:DA:H2'	11:AB:6061:DT:H72	2.00	0.43
11:AB:6200:DA:H2'	11:AB:6201:DT:H72	2.00	0.43
11:AB:6220:DT:H2'	11:AB:6221:DT:H71	2.01	0.43
11:AB:6257:DT:H2'	11:AB:6258:DT:H71	2.00	0.43
11:AB:6424:DT:H2'	11:AB:6425:DT:H71	2.00	0.43
11:AB:6472:DA:H2'	11:AB:6473:DT:H72	2.00	0.43
11:AB:6581:DG:H1'	11:AB:6582:DT:H5'	2.00	0.43
11:AB:6672:DG:H1'	11:AB:6673:DT:H5'	2.00	0.43
11:AB:6808:DT:H2'	11:AB:6809:DT:H71	2.00	0.43
11:AB:6871:DT:C2'	11:AB:6872:DT:H72	2.48	0.43
11:AB:6967:DA:H2'	11:AB:6968:DT:H72	2.00	0.43
11:AB:7070:DG:H1'	11:AB:7071:DT:H5'	2.00	0.43
11:AB:7182:DC:H2'	11:AB:7183:DT:H71	1.99	0.43
14:B1:10:DA:H2'	14:B1:11:DT:H72	2.00	0.43
15:B2:11:DA:H2'	15:B2:12:DT:H72	1.99	0.43
16:B3:14:DT:H5'	152:N9:24:DG:H1'	2.00	0.43
21:B8:23:DT:H2'	21:B8:24:DT:H71	2.00	0.43
22:B9:1:DA:H2'	22:B9:2:DT:H72	2.00	0.43
30:C6:12:DC:C6	30:C6:13:DT:H72	2.54	0.43
30:C6:26:DC:C6	30:C6:27:DT:H72	2.54	0.43
31:C7:3:DG:H1'	31:C7:4:DT:H5'	2.00	0.43
31:C7:6:DC:C6	31:C7:7:DT:H72	2.54	0.43
32:C8:11:DT:H2'	32:C8:12:DT:H71	2.00	0.43
33:C9:26:DT:H2'	33:C9:27:DT:H71	2.01	0.43
35:CC:15:DC:H2'	35:CC:16:DT:H71	1.99	0.43
41:D6:16:DC:C6	41:D6:17:DT:H72	2.54	0.43
42:D7:1:DT:H71	53:E7:15:DT:H2'	2.00	0.43
45:DA:9:DG:H1'	45:DA:10:DT:H5'	2.00	0.43
52:E6:1:DT:C2'	52:E6:2:DT:H72	2.48	0.43
53:E7:9:DT:H2'	53:E7:10:DT:H71	2.00	0.43
56:EA:10:DG:H1'	56:EA:11:DT:H5'	2.00	0.43
66:F9:16:DG:H1'	66:F9:17:DT:H5'	2.00	0.43
69:FD:9:DG:H1'	69:FD:10:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:G3:8:DA:H2'	72:G3:9:DT:H72	2.00	0.43
72:G3:17:DA:H2'	72:G3:18:DT:H72	2.00	0.43
74:G6:19:DT:H2'	74:G6:20:DT:H71	2.01	0.43
74:G6:33:DG:H1'	74:G6:34:DT:H5'	2.00	0.43
83:H3:2:DC:C6	83:H3:3:DT:H72	2.54	0.43
88:H9:6:DA:H2'	88:H9:7:DT:H72	2.00	0.43
98:I8:39:DG:H1'	98:I8:40:DT:H5'	2.00	0.43
98:I8:41:DA:H2'	98:I8:42:DT:H72	2.00	0.43
99:I9:1:DT:H72	133:LA:22:DA:H2'	1.99	0.43
99:I9:7:DC:C6	99:I9:8:DT:H72	2.54	0.43
99:I9:12:DA:H2'	99:I9:13:DT:H72	2.00	0.43
103:J1:10:DA:H2'	103:J1:11:DT:H72	2.00	0.43
105:J3:11:DA:H2'	105:J3:12:DT:H72	1.99	0.43
108:J7:16:DC:C6	108:J7:17:DT:H72	2.54	0.43
111:JA:1:DT:H2'	111:JA:2:DT:H71	2.00	0.43
114:K1:12:DA:H2'	114:K1:13:DT:H72	2.00	0.43
119:K7:19:DT:H2'	119:K7:20:DT:H71	2.00	0.43
122:KA:42:DC:H2'	122:KA:43:DT:H71	1.99	0.43
123:KC:5:DA:H2'	123:KC:6:DT:H72	2.00	0.43
126:L2:9:DT:H2'	126:L2:10:DT:H71	2.01	0.43
126:L2:52:DA:H2'	126:L2:53:DT:H72	2.00	0.43
129:L6:13:DA:H2'	129:L6:14:DT:H72	2.00	0.43
133:LA:7:DC:H2'	133:LA:8:DT:H71	1.99	0.43
133:LA:13:DG:H1'	133:LA:14:DT:H5'	2.00	0.43
140:M7:4:DA:H2'	140:M7:5:DT:H72	2.00	0.43
141:M8:21:DG:H1'	141:M8:22:DT:H5'	2.00	0.43
144:MC:19:DC:C6	144:MC:20:DT:H72	2.54	0.43
146:N2:17:DA:H2'	146:N2:18:DT:H72	2.00	0.43
147:N3:26:DC:C6	147:N3:27:DT:H72	2.54	0.43
149:N6:13:DA:H2'	149:N6:14:DT:H72	2.00	0.43
152:N9:20:DT:H2'	152:N9:21:DT:H71	2.01	0.43
153:NA:7:DG:H1'	153:NA:8:DT:H5'	2.00	0.43
154:NC:18:DT:H2'	154:NC:19:DT:H71	2.00	0.43
160:O7:14:DC:C6	160:O7:15:DT:H72	2.54	0.43
167:P3:13:DT:H2'	167:P3:14:DT:H71	2.01	0.43
169:P6:12:DG:H1'	169:P6:13:DT:H5'	2.00	0.43
175:PD:14:DT:C2'	175:PD:15:DT:H72	2.48	0.43
177:Q3:16:DA:H2'	177:Q3:17:DT:H72	1.99	0.43
177:Q3:24:DA:H2'	177:Q3:25:DT:H72	2.00	0.43
188:R7:25:DG:H1'	188:R7:26:DT:H5'	2.00	0.43
189:R8:11:DA:H2'	189:R8:12:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
190:R9:33:DA:H2'	190:R9:34:DT:H72	2.00	0.43
204:T3:26:DC:H2'	204:T3:27:DT:H71	1.99	0.43
206:T7:3:DC:H2'	206:T7:4:DT:H71	1.99	0.43
208:T9:5:DA:H2'	208:T9:6:DT:H72	2.00	0.43
216:U8:5:DG:H1'	216:U8:6:DT:H5'	2.00	0.43
221:V2:7:DG:H1'	221:V2:8:DT:H5'	2.00	0.43
222:V3:19:DT:H2'	222:V3:20:DT:H71	2.00	0.43
226:V9:16:DG:H1'	226:V9:17:DT:H5'	2.00	0.43
228:VC:36:DA:H2'	228:VC:37:DT:H72	2.00	0.43
236:X5:24:DA:H2'	236:X5:25:DT:H72	2.00	0.43
11:AB:129:DT:H2'	11:AB:130:DT:H71	2.01	0.43
11:AB:205:DC:H2'	11:AB:206:DT:H71	1.99	0.43
11:AB:574:DC:C6	11:AB:575:DT:H72	2.54	0.43
11:AB:616:DA:H2'	11:AB:617:DT:H72	2.00	0.43
11:AB:679:DC:C6	11:AB:680:DT:H72	2.54	0.43
11:AB:687:DG:H1'	11:AB:688:DT:H5'	2.00	0.43
11:AB:733:DA:H2'	11:AB:734:DT:H72	2.00	0.43
11:AB:764:DC:C6	11:AB:765:DT:H72	2.54	0.43
11:AB:798:DT:H2'	11:AB:799:DT:H71	2.01	0.43
11:AB:835:DC:C6	11:AB:836:DT:H72	2.54	0.43
11:AB:871:DG:H1'	11:AB:872:DT:H5'	2.00	0.43
11:AB:932:DC:H2'	11:AB:933:DT:H71	1.99	0.43
11:AB:934:DC:C6	11:AB:935:DT:H72	2.54	0.43
11:AB:959:DC:C6	11:AB:960:DT:H72	2.54	0.43
11:AB:982:DA:H2'	11:AB:983:DT:H72	2.00	0.43
11:AB:1024:DA:H2'	11:AB:1025:DT:H72	2.00	0.43
11:AB:1072:DC:C6	11:AB:1073:DT:H72	2.54	0.43
11:AB:1101:DG:H1'	11:AB:6398:DT:H5'	2.00	0.43
11:AB:1106:DT:H2'	11:AB:1107:DT:H71	2.01	0.43
11:AB:1135:DA:H2'	11:AB:1136:DT:H71	1.99	0.43
11:AB:1198:DG:H1'	11:AB:1199:DT:H5'	2.00	0.43
11:AB:1241:DT:H2'	11:AB:1242:DT:H71	2.00	0.43
11:AB:1270:DC:H2'	11:AB:1271:DT:H71	1.99	0.43
11:AB:1382:DA:H2'	11:AB:1383:DT:H72	2.00	0.43
11:AB:1506:DC:C6	11:AB:1507:DT:H72	2.54	0.43
11:AB:1544:DA:H2'	11:AB:1545:DT:H72	2.00	0.43
11:AB:1565:DA:H2'	11:AB:1566:DT:H72	2.00	0.43
11:AB:1614:DC:H2'	11:AB:1615:DT:H71	1.99	0.43
11:AB:1641:DG:H1'	11:AB:1642:DT:H5'	2.00	0.43
11:AB:1683:DA:H2'	11:AB:1684:DT:H71	1.99	0.43
11:AB:1685:DG:H1'	11:AB:1686:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1938:DA:H2'	11:AB:1939:DT:H72	2.00	0.43
11:AB:2147:DC:H2'	11:AB:2148:DT:H71	1.99	0.43
11:AB:2185:DC:C6	11:AB:2186:DT:H72	2.54	0.43
11:AB:2249:DT:H2'	11:AB:2250:DT:H71	2.01	0.43
11:AB:2271:DA:H2'	11:AB:2272:DT:H72	2.00	0.43
11:AB:2306:DA:H2'	11:AB:2307:DT:H72	2.00	0.43
11:AB:2346:DC:C6	11:AB:2347:DT:H72	2.54	0.43
11:AB:2533:DG:H1'	11:AB:2534:DT:H5'	2.00	0.43
11:AB:2560:DT:H2'	11:AB:2561:DT:H71	2.01	0.43
11:AB:2611:DC:C6	11:AB:2612:DT:H72	2.54	0.43
11:AB:2759:DA:H2'	11:AB:2760:DT:H72	2.00	0.43
11:AB:2823:DC:C6	11:AB:2824:DT:H72	2.54	0.43
11:AB:2960:DC:H2'	11:AB:2961:DT:H71	1.99	0.43
11:AB:2966:DA:H2'	11:AB:2967:DT:H72	2.00	0.43
11:AB:3026:DA:H2'	11:AB:3027:DT:H71	1.99	0.43
11:AB:3036:DT:H71	11:AB:4991:DC:H2'	1.99	0.43
11:AB:3203:DA:H2'	11:AB:3204:DT:H72	2.00	0.43
11:AB:3361:DG:H1'	11:AB:3362:DT:H5'	2.00	0.43
11:AB:3622:DC:C6	11:AB:3623:DT:H72	2.54	0.43
11:AB:3791:DT:H5'	11:AB:4462:DG:H1'	2.00	0.43
11:AB:3847:DG:H1'	11:AB:3848:DT:H5'	2.00	0.43
11:AB:3886:DT:H2'	11:AB:3887:DT:H71	2.01	0.43
11:AB:3923:DC:H2'	11:AB:3924:DT:H71	1.99	0.43
11:AB:4068:DG:H1'	11:AB:4069:DT:H5'	2.00	0.43
11:AB:4119:DC:C6	11:AB:4120:DT:H72	2.54	0.43
11:AB:4242:DC:C6	11:AB:4243:DT:H72	2.54	0.43
11:AB:4406:DC:H2'	11:AB:4407:DT:H71	1.99	0.43
11:AB:4412:DA:H2'	11:AB:4413:DT:H72	2.00	0.43
11:AB:4500:DC:H2'	11:AB:4501:DT:H71	1.99	0.43
11:AB:4592:DC:H2'	11:AB:4593:DT:H71	1.99	0.43
11:AB:4612:DA:H2'	11:AB:4613:DT:H72	2.00	0.43
11:AB:4721:DT:H2'	11:AB:4722:DT:H71	2.00	0.43
11:AB:4723:DA:H2'	11:AB:4724:DT:H72	2.00	0.43
11:AB:4953:DG:H1'	11:AB:4954:DT:H5'	2.00	0.43
11:AB:5031:DT:H2'	11:AB:5032:DT:H71	2.01	0.43
11:AB:5239:DC:H2'	11:AB:5240:DT:H71	1.99	0.43
11:AB:5305:DA:H2'	11:AB:5306:DT:H72	2.00	0.43
11:AB:5348:DT:H2'	11:AB:5349:DT:H71	2.01	0.43
11:AB:5393:DT:H2'	11:AB:5394:DT:H71	2.00	0.43
11:AB:5478:DC:H2'	11:AB:5479:DT:H71	1.99	0.43
11:AB:5499:DC:H2'	11:AB:5500:DT:H71	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5596:DC:C6	11:AB:5597:DT:H72	2.54	0.43
11:AB:5600:DC:C6	11:AB:5601:DT:H72	2.54	0.43
11:AB:5752:DT:H2'	11:AB:5753:DT:H71	2.01	0.43
11:AB:5783:DC:C6	11:AB:5784:DT:H72	2.54	0.43
11:AB:5786:DA:H2'	11:AB:5787:DT:H72	2.00	0.43
11:AB:5790:DT:H2'	11:AB:5791:DT:H71	2.00	0.43
11:AB:5804:DA:H2'	11:AB:5805:DT:H72	2.00	0.43
11:AB:5807:DA:H2'	11:AB:5808:DT:H72	2.00	0.43
11:AB:5873:DA:H2'	11:AB:5874:DT:H71	1.99	0.43
11:AB:5916:DA:H2'	11:AB:5917:DT:H72	2.00	0.43
11:AB:5930:DC:C6	11:AB:5931:DT:H72	2.54	0.43
11:AB:6075:DC:C6	11:AB:6076:DT:H72	2.54	0.43
11:AB:6093:DA:H2'	11:AB:6094:DT:H72	2.00	0.43
11:AB:6171:DA:H2'	11:AB:6172:DT:H71	1.99	0.43
11:AB:6225:DT:H2'	11:AB:6226:DT:H71	2.01	0.43
11:AB:6227:DC:H2'	11:AB:6228:DT:H71	1.99	0.43
11:AB:6320:DA:H2'	11:AB:6321:DT:H72	2.00	0.43
11:AB:6476:DC:C6	11:AB:6477:DT:H72	2.54	0.43
11:AB:6805:DC:C6	11:AB:6806:DT:H72	2.54	0.43
11:AB:7009:DA:H2'	11:AB:7010:DT:H72	2.00	0.43
11:AB:7038:DG:H1'	11:AB:7039:DT:H5'	2.00	0.43
11:AB:7091:DG:H1'	11:AB:7092:DT:H5'	2.00	0.43
11:AB:7129:DG:H1'	11:AB:7130:DT:H5'	2.00	0.43
11:AB:7188:DC:C6	11:AB:7189:DT:H72	2.54	0.43
23:BA:31:DA:H2'	23:BA:32:DT:H72	2.00	0.43
34:CA:15:DC:H2'	34:CA:16:DT:H71	1.99	0.43
44:D9:5:DA:H2'	44:D9:6:DT:H72	2.00	0.43
47:DD:21:DA:H2'	47:DD:22:DT:H72	2.00	0.43
54:E8:6:DC:C6	54:E8:7:DT:H72	2.54	0.43
54:E8:12:DT:H2'	54:E8:13:DT:H71	2.01	0.43
54:E8:21:DC:C6	54:E8:22:DT:H72	2.54	0.43
55:E9:35:DA:H2'	55:E9:36:DT:H72	2.00	0.43
56:EA:12:DG:H1'	56:EA:13:DT:H5'	2.00	0.43
64:F7:12:DC:C6	64:F7:13:DT:H72	2.54	0.43
67:FA:29:DC:C6	67:FA:30:DT:H72	2.54	0.43
68:FC:8:DA:H2'	68:FC:9:DT:H72	1.99	0.43
78:GA:3:DG:H1'	78:GA:4:DT:H5'	2.00	0.43
80:GD:7:DT:H2'	80:GD:8:DT:H71	2.00	0.43
91:HD:6:DA:H2'	91:HD:7:DT:H72	2.00	0.43
92:I1:24:DC:C6	92:I1:25:DT:H72	2.54	0.43
97:I7:28:DC:H2'	97:I7:29:DT:H71	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
106:J5:15:DT:H71	196:S5:21:DC:H2'	1.99	0.43
111:JA:15:DC:C6	111:JA:16:DT:H72	2.54	0.43
113:JD:15:DT:H5'	132:L9:14:DG:H1'	2.00	0.43
119:K7:5:DA:H2'	119:K7:6:DT:H72	1.99	0.43
128:L5:12:DA:H2'	128:L5:13:DT:H72	2.00	0.43
129:L6:21:DC:C6	129:L6:22:DT:H72	2.54	0.43
138:M5:17:DA:H2'	138:M5:18:DT:H72	2.00	0.43
142:M9:2:DA:H2'	142:M9:3:DT:H71	1.99	0.43
144:MC:22:DT:H2'	144:MC:23:DT:H71	2.00	0.43
155:ND:3:DG:H1'	155:ND:4:DT:H5'	2.00	0.43
161:O8:14:DG:H1'	161:O8:15:DT:H5'	2.00	0.43
161:O8:47:DT:H2'	161:O8:48:DT:H71	2.01	0.43
172:P9:22:DC:H2'	172:P9:23:DT:H71	1.99	0.43
174:PC:17:DA:H2'	174:PC:18:DT:H72	2.00	0.43
181:Q9:33:DT:H2'	181:Q9:34:DT:H71	2.01	0.43
189:R8:13:DT:H2'	189:R8:14:DT:H71	2.01	0.43
195:S3:18:DA:H2'	195:S3:19:DT:H72	2.00	0.43
208:T9:18:DC:H2'	208:T9:19:DT:H71	1.99	0.43
214:U5:22:DC:C6	214:U5:23:DT:H72	2.54	0.43
222:V3:1:DA:H2'	222:V3:2:DT:H72	2.00	0.43
226:V9:8:DA:H2'	226:V9:9:DT:H72	2.00	0.43
228:VC:9:DG:H1'	228:VC:10:DT:H5'	2.00	0.43
235:WD:12:DG:H1'	235:WD:13:DT:H5'	2.00	0.43
237:X7:21:DA:H2'	237:X7:22:DT:H71	1.99	0.43
238:X9:46:DT:H2'	238:X9:47:DT:H71	2.01	0.43
1:A1:12:DA:H2'	18:B5:1:DT:H71	1.99	0.43
6:A6:19:DT:H2'	6:A6:20:DT:H71	2.01	0.43
11:AB:26:DG:H1'	11:AB:27:DT:H5'	2.00	0.43
11:AB:115:DC:H2'	11:AB:116:DT:H71	1.99	0.43
11:AB:118:DC:C6	11:AB:119:DT:H72	2.54	0.43
11:AB:131:DT:H2'	11:AB:132:DT:H71	2.01	0.43
11:AB:393:DA:H2'	11:AB:394:DT:H72	2.00	0.43
11:AB:433:DC:C6	11:AB:434:DT:H72	2.54	0.43
11:AB:619:DA:H2'	11:AB:620:DT:H72	2.00	0.43
11:AB:756:DT:H2'	11:AB:757:DT:H71	2.01	0.43
11:AB:811:DA:H2'	11:AB:812:DT:H72	2.00	0.43
11:AB:964:DG:H1'	11:AB:965:DT:H5'	2.00	0.43
11:AB:1144:DG:H1'	11:AB:1145:DT:H5'	2.00	0.43
11:AB:1156:DA:H2'	11:AB:1157:DT:H71	1.99	0.43
11:AB:1278:DT:H2'	11:AB:1279:DT:H71	2.01	0.43
11:AB:1380:DG:H1'	11:AB:1381:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1421:DT:H2'	11:AB:1422:DT:H71	2.01	0.43
11:AB:1424:DA:H2'	11:AB:1425:DT:H72	2.00	0.43
11:AB:1463:DT:H2'	11:AB:1464:DT:H71	2.01	0.43
11:AB:1486:DT:H2'	11:AB:1487:DT:H71	2.01	0.43
11:AB:1583:DA:H2'	11:AB:6122:DT:H72	2.00	0.43
11:AB:1584:DT:H2'	11:AB:1585:DT:H71	2.01	0.43
11:AB:1630:DC:H2'	11:AB:1631:DT:H71	1.99	0.43
11:AB:1724:DG:H1'	11:AB:1725:DT:H5'	2.00	0.43
11:AB:1744:DT:H2'	11:AB:1745:DT:H71	2.01	0.43
11:AB:1765:DA:H2'	11:AB:1766:DT:H72	2.00	0.43
11:AB:1884:DC:H2'	11:AB:1885:DT:H71	1.99	0.43
11:AB:1956:DA:H2'	11:AB:1957:DT:H72	2.00	0.43
11:AB:2088:DA:H2'	11:AB:2089:DT:H72	2.00	0.43
11:AB:2098:DT:H2'	11:AB:2099:DT:H71	2.00	0.43
11:AB:2110:DG:H1'	11:AB:2111:DT:H5'	2.00	0.43
11:AB:2134:DT:H2'	11:AB:2135:DT:H71	2.01	0.43
11:AB:2180:DA:H2'	11:AB:2181:DT:H71	1.99	0.43
11:AB:2366:DG:H1'	11:AB:2367:DT:H5'	2.00	0.43
11:AB:2418:DG:H1'	11:AB:2419:DT:H5'	2.00	0.43
11:AB:2440:DA:H2'	11:AB:2441:DT:H71	1.99	0.43
11:AB:2648:DT:H2'	11:AB:2649:DT:H71	2.01	0.43
11:AB:2936:DC:H2'	11:AB:2937:DT:H71	1.99	0.43
11:AB:3045:DT:H2'	11:AB:3046:DT:H71	2.01	0.43
11:AB:3053:DC:C6	11:AB:3054:DT:H72	2.54	0.43
11:AB:3108:DA:H2'	11:AB:3109:DT:H72	2.00	0.43
11:AB:3155:DG:H1'	11:AB:3156:DT:H5'	2.00	0.43
11:AB:3260:DC:H2'	11:AB:3261:DT:H71	1.99	0.43
11:AB:3277:DG:H1'	11:AB:3278:DT:H5'	2.00	0.43
11:AB:3348:DA:H2'	11:AB:3349:DT:H72	2.00	0.43
11:AB:3403:DT:H2'	11:AB:3404:DT:H71	2.01	0.43
11:AB:3426:DT:H2'	11:AB:3427:DT:H71	2.01	0.43
11:AB:3446:DC:C6	11:AB:3447:DT:H72	2.54	0.43
11:AB:3509:DC:C6	11:AB:3510:DT:H72	2.54	0.43
11:AB:3725:DT:H2'	11:AB:3726:DT:H71	2.01	0.43
11:AB:3766:DG:H1'	11:AB:3767:DT:H5'	2.00	0.43
11:AB:4012:DT:H72	11:AB:4347:DC:C6	2.54	0.43
11:AB:4013:DC:C6	11:AB:4014:DT:H72	2.54	0.43
11:AB:4217:DC:H2'	11:AB:4218:DT:H71	1.99	0.43
11:AB:4278:DG:H1'	11:AB:4279:DT:H5'	2.00	0.43
11:AB:4300:DA:H2'	11:AB:4301:DT:H71	1.99	0.43
11:AB:4733:DC:H2'	11:AB:4734:DT:H71	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4741:DT:H2'	11:AB:4742:DT:H71	2.01	0.43
11:AB:4793:DA:H2'	11:AB:4794:DT:H72	2.00	0.43
11:AB:4834:DG:H1'	11:AB:4835:DT:H5'	2.00	0.43
11:AB:4840:DC:C6	11:AB:4841:DT:H72	2.54	0.43
11:AB:4938:DC:C6	11:AB:4939:DT:H72	2.54	0.43
11:AB:5073:DA:H2'	11:AB:5074:DT:H71	1.99	0.43
11:AB:5093:DG:H1'	11:AB:5094:DT:H5'	2.00	0.43
11:AB:5162:DA:H2'	11:AB:5163:DT:H72	2.00	0.43
11:AB:5196:DA:H2'	11:AB:5197:DT:H72	2.00	0.43
11:AB:5228:DG:H1'	11:AB:5229:DT:H5'	2.00	0.43
11:AB:5329:DT:H2'	11:AB:5330:DT:H71	2.01	0.43
11:AB:5464:DG:H1'	11:AB:5465:DT:H5'	2.00	0.43
11:AB:5557:DG:H1'	11:AB:5558:DT:H5'	2.00	0.43
11:AB:5769:DA:H2'	11:AB:5770:DT:H72	2.00	0.43
11:AB:5802:DG:H1'	11:AB:5803:DT:H5'	2.00	0.43
11:AB:5828:DC:H2'	11:AB:5829:DT:H71	1.99	0.43
11:AB:5831:DC:C6	11:AB:5832:DT:H72	2.54	0.43
11:AB:5853:DC:H2'	11:AB:5854:DT:H71	1.99	0.43
11:AB:5952:DT:H2'	11:AB:5953:DT:H71	2.01	0.43
11:AB:6155:DC:H2'	11:AB:6156:DT:H71	1.99	0.43
11:AB:6194:DC:H2'	11:AB:6195:DT:H71	1.99	0.43
11:AB:6204:DT:H2'	11:AB:6205:DT:H71	2.01	0.43
11:AB:6206:DT:H2'	11:AB:6207:DT:H71	2.01	0.43
11:AB:6282:DT:H2'	11:AB:6283:DT:H71	2.01	0.43
11:AB:6326:DA:H2'	11:AB:6327:DT:H72	2.00	0.43
11:AB:6678:DA:H2'	11:AB:6679:DT:H72	2.00	0.43
11:AB:6688:DC:C6	11:AB:6689:DT:H72	2.54	0.43
11:AB:6699:DT:H2'	11:AB:6700:DT:H71	2.01	0.43
11:AB:6706:DC:H2'	11:AB:6707:DT:H71	1.99	0.43
11:AB:6758:DT:H2'	11:AB:6759:DT:H71	2.01	0.43
11:AB:6801:DA:H2'	11:AB:6802:DT:H72	2.00	0.43
11:AB:6849:DG:H1'	11:AB:6850:DT:H5'	2.00	0.43
11:AB:6891:DA:H2'	11:AB:6892:DT:H71	1.99	0.43
11:AB:6978:DC:H2'	11:AB:6979:DT:H71	1.99	0.43
11:AB:6994:DT:H2'	11:AB:6995:DT:H71	2.01	0.43
11:AB:7030:DG:H1'	11:AB:7031:DT:H5'	2.00	0.43
11:AB:7059:DG:H1'	11:AB:7060:DT:H5'	2.00	0.43
11:AB:7081:DG:H1'	11:AB:7082:DT:H5'	2.00	0.43
11:AB:7093:DA:H2'	11:AB:7094:DT:H72	2.00	0.43
11:AB:7107:DA:H2'	11:AB:7108:DT:H72	2.00	0.43
11:AB:7118:DC:H2'	11:AB:7119:DT:H71	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:7132:DT:H2'	11:AB:7133:DT:H71	2.01	0.43
11:AB:7139:DC:H2'	11:AB:7140:DT:H71	1.99	0.43
13:AD:34:DC:C6	13:AD:35:DT:H72	2.54	0.43
14:B1:7:DG:H1'	117:K5:26:DT:H5'	2.00	0.43
20:B7:5:DT:H2'	20:B7:6:DT:H71	2.01	0.43
26:C1:4:DG:H1'	26:C1:5:DT:H5'	2.00	0.43
27:C2:21:DC:C6	27:C2:22:DT:H72	2.54	0.43
36:CD:21:DA:H2'	36:CD:22:DT:H71	1.99	0.43
42:D7:9:DG:H1'	42:D7:10:DT:H5'	2.00	0.43
49:E2:14:DA:H2'	49:E2:15:DT:H72	2.00	0.43
49:E2:20:DA:H2'	49:E2:21:DT:H72	2.00	0.43
52:E6:1:DT:H71	63:F6:13:DA:H2'	1.99	0.43
55:E9:34:DA:H2'	238:X9:32:DT:H71	1.99	0.43
69:FD:22:DT:H71	225:V8:17:DA:H2'	1.99	0.43
74:G6:15:DT:H2'	74:G6:16:DT:H71	2.01	0.43
75:G7:12:DT:H71	104:J2:35:DA:H2'	1.99	0.43
77:G9:13:DA:H2'	77:G9:14:DT:H72	2.00	0.43
84:H5:7:DG:H1'	84:H5:8:DT:H5'	2.00	0.43
86:H7:24:DG:H1'	140:M7:1:DT:H5'	2.00	0.43
93:I2:26:DC:H2'	93:I2:27:DT:H71	1.99	0.43
99:I9:18:DC:C6	99:I9:19:DT:H72	2.54	0.43
102:ID:15:DT:H2'	102:ID:16:DT:H71	2.01	0.43
105:J3:24:DA:H2'	105:J3:25:DT:H72	2.00	0.43
108:J7:51:DC:C6	108:J7:52:DT:H72	2.54	0.43
109:J8:22:DT:H2'	109:J8:23:DT:H71	2.01	0.43
115:K2:11:DG:H1'	115:K2:12:DT:H5'	2.00	0.43
122:KA:6:DC:H2'	122:KA:7:DT:H71	1.99	0.43
122:KA:19:DA:H2'	122:KA:20:DT:H72	2.00	0.43
124:KD:7:DC:C6	124:KD:8:DT:H72	2.54	0.43
125:L1:45:DG:H1'	125:L1:46:DT:H5'	2.00	0.43
126:L2:21:DT:H2'	126:L2:22:DT:H71	2.01	0.43
127:L3:5:DC:H2'	127:L3:6:DT:H71	1.99	0.43
130:L7:50:DT:H2'	130:L7:51:DT:H71	2.00	0.43
136:M2:4:DA:H2'	136:M2:5:DT:H72	2.00	0.43
139:M6:8:DA:H2'	139:M6:9:DT:H72	2.00	0.43
144:MC:13:DG:H1'	144:MC:14:DT:H5'	2.00	0.43
145:MD:10:DT:H2'	145:MD:11:DT:H71	2.00	0.43
152:N9:35:DA:H2'	152:N9:36:DT:H72	2.00	0.43
156:O2:33:DC:H2'	156:O2:34:DT:H71	1.99	0.43
157:O3:3:DA:H2'	157:O3:4:DT:H71	1.99	0.43
160:O7:21:DC:C6	160:O7:22:DT:H72	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
166:P2:17:DT:H2'	166:P2:18:DT:H71	2.01	0.43
169:P6:20:DC:H2'	169:P6:21:DT:H71	1.99	0.43
172:P9:10:DT:H2'	172:P9:11:DT:H71	2.01	0.43
173:PA:22:DT:H2'	173:PA:23:DT:H71	2.01	0.43
173:PA:24:DT:H2'	173:PA:25:DT:H71	2.01	0.43
174:PC:8:DC:C6	174:PC:9:DT:H72	2.54	0.43
177:Q3:5:DG:H1'	177:Q3:6:DT:H5'	2.00	0.43
178:Q5:30:DG:H1'	178:Q5:31:DT:H5'	2.00	0.43
181:Q9:35:DT:H2'	181:Q9:36:DT:H71	2.01	0.43
190:R9:15:DA:H2'	190:R9:16:DT:H72	2.00	0.43
192:RC:14:DA:H2'	192:RC:15:DT:H72	2.00	0.43
192:RC:25:DA:H2'	192:RC:26:DT:H72	2.00	0.43
193:RD:9:DA:H2'	193:RD:10:DT:H72	2.00	0.43
195:S3:11:DC:C6	195:S3:12:DT:H72	2.54	0.43
197:S7:8:DC:H2'	197:S7:9:DT:H71	1.99	0.43
199:S9:17:DT:H5'	226:V9:4:DG:H1'	2.00	0.43
207:T8:19:DG:H1'	207:T8:20:DT:H5'	2.00	0.43
211:TD:17:DG:H1'	211:TD:18:DT:H5'	2.00	0.43
211:TD:32:DA:H2'	211:TD:33:DT:H72	2.00	0.43
223:V5:33:DT:H2'	223:V5:34:DT:H71	2.01	0.43
225:V8:15:DA:H2'	225:V8:16:DT:H72	2.00	0.43
226:V9:26:DA:H2'	226:V9:27:DT:H72	2.00	0.43
231:W5:8:DG:H1'	231:W5:9:DT:H5'	2.00	0.43
232:W7:23:DG:H1'	232:W7:24:DT:H5'	2.00	0.43
4:A4:25:DG:H1'	4:A4:26:DT:H5'	2.00	0.43
5:A5:13:DT:H2'	5:A5:14:DT:H71	2.01	0.43
5:A5:32:DC:C6	5:A5:33:DT:H72	2.54	0.43
9:A9:15:DT:H2'	9:A9:16:DT:H71	2.01	0.43
11:AB:66:DT:H2'	11:AB:67:DT:H71	2.01	0.43
11:AB:108:DT:H2'	11:AB:109:DT:H71	2.01	0.43
11:AB:281:DT:H2'	11:AB:282:DT:H71	2.01	0.43
11:AB:460:DG:H1'	11:AB:461:DT:H5'	2.00	0.43
11:AB:469:DC:H2'	11:AB:470:DT:H71	1.99	0.43
11:AB:481:DG:H1'	11:AB:482:DT:H5'	2.00	0.43
11:AB:490:DC:H2'	11:AB:491:DT:H71	1.99	0.43
11:AB:644:DA:H2'	11:AB:645:DT:H72	2.00	0.43
11:AB:666:DG:H1'	11:AB:667:DT:H5'	2.00	0.43
11:AB:782:DC:H2'	11:AB:783:DT:H71	1.99	0.43
11:AB:794:DT:H2'	11:AB:795:DT:H71	2.01	0.43
11:AB:902:DC:H2'	11:AB:903:DT:H71	1.99	0.43
11:AB:925:DG:H1'	11:AB:926:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:973:DA:H2'	11:AB:974:DT:H72	2.00	0.43
11:AB:1003:DA:H2'	11:AB:1004:DT:H72	2.00	0.43
11:AB:1041:DC:H2'	11:AB:1042:DT:H71	1.99	0.43
11:AB:1046:DG:H1'	11:AB:1047:DT:H5'	2.00	0.43
11:AB:1275:DG:H1'	11:AB:1276:DT:H5'	2.00	0.43
11:AB:1331:DA:H2'	11:AB:1332:DT:H72	2.00	0.43
11:AB:1336:DG:H1'	11:AB:1337:DT:H5'	2.00	0.43
11:AB:1391:DG:H1'	11:AB:1392:DT:H5'	2.00	0.43
11:AB:1470:DG:H1'	11:AB:1471:DT:H5'	2.00	0.43
11:AB:1475:DC:C6	11:AB:1476:DT:H72	2.54	0.43
11:AB:1552:DG:H1'	11:AB:1553:DT:H5'	2.00	0.43
11:AB:1589:DG:H1'	11:AB:1590:DT:H5'	2.00	0.43
11:AB:1593:DG:H1'	11:AB:1594:DT:H5'	2.00	0.43
11:AB:1655:DC:C6	11:AB:1656:DT:H72	2.54	0.43
11:AB:1867:DC:C6	11:AB:1868:DT:H72	2.54	0.43
11:AB:1878:DT:H2'	11:AB:1879:DT:H71	2.01	0.43
11:AB:1929:DG:H1'	11:AB:1930:DT:H5'	2.00	0.43
11:AB:2038:DG:H1'	11:AB:2039:DT:H5'	2.00	0.43
11:AB:2155:DT:H2'	11:AB:2156:DT:H71	2.01	0.43
11:AB:2226:DT:H2'	11:AB:2227:DT:H71	2.01	0.43
11:AB:2317:DC:H2'	11:AB:2318:DT:H71	1.99	0.43
11:AB:2362:DA:H2'	11:AB:2363:DT:H71	1.99	0.43
11:AB:2398:DC:C6	11:AB:2399:DT:H72	2.54	0.43
11:AB:2452:DG:H1'	11:AB:2453:DT:H5'	2.00	0.43
11:AB:2629:DA:H2'	11:AB:2630:DT:H72	2.00	0.43
11:AB:2702:DA:H2'	11:AB:2703:DT:H71	1.99	0.43
11:AB:2721:DT:H2'	11:AB:2722:DT:H71	2.01	0.43
11:AB:2841:DA:H2'	11:AB:2842:DT:H72	2.00	0.43
11:AB:2904:DT:H2'	11:AB:2905:DT:H71	2.01	0.43
11:AB:3044:DG:H1'	11:AB:3045:DT:H5'	2.00	0.43
11:AB:3209:DT:H2'	11:AB:3210:DT:H71	2.01	0.43
11:AB:3235:DG:H1'	11:AB:3236:DT:H5'	2.00	0.43
11:AB:3419:DG:H1'	11:AB:3420:DT:H5'	2.00	0.43
11:AB:3536:DT:H2'	11:AB:3537:DT:H71	2.01	0.43
11:AB:3539:DA:H2'	11:AB:3540:DT:H72	2.00	0.43
11:AB:3562:DG:H1'	11:AB:3563:DT:H5'	2.00	0.43
11:AB:3629:DG:H1'	11:AB:3630:DT:H5'	2.00	0.43
11:AB:3791:DT:H2'	11:AB:3792:DT:H71	2.01	0.43
11:AB:3914:DG:H1'	11:AB:3915:DT:H5'	2.00	0.43
11:AB:4338:DG:H1'	11:AB:4339:DT:H5'	2.00	0.43
11:AB:4432:DA:H2'	11:AB:4433:DT:H71	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4491:DT:H2'	11:AB:4492:DT:H71	2.01	0.43
11:AB:4785:DC:C6	11:AB:4786:DT:H72	2.54	0.43
11:AB:4899:DC:C6	11:AB:4900:DT:H72	2.54	0.43
11:AB:5110:DC:H2'	11:AB:5111:DT:H71	1.99	0.43
11:AB:5270:DT:H2'	11:AB:5271:DT:H71	2.01	0.43
11:AB:5279:DG:H1'	11:AB:5280:DT:H5'	2.00	0.43
11:AB:5316:DA:H2'	11:AB:5317:DT:H71	1.99	0.43
11:AB:5327:DA:H2'	11:AB:5328:DT:H72	2.00	0.43
11:AB:5442:DA:H2'	11:AB:5443:DT:H72	2.00	0.43
11:AB:5754:DA:H2'	11:AB:5755:DT:H72	2.00	0.43
11:AB:5811:DA:H2'	11:AB:5812:DT:H72	2.00	0.43
11:AB:5893:DG:H1'	11:AB:5894:DT:H5'	2.00	0.43
11:AB:5993:DG:H1'	11:AB:5994:DT:H5'	2.00	0.43
11:AB:6190:DC:H2'	11:AB:6191:DT:H71	1.99	0.43
11:AB:6233:DA:H2'	11:AB:6234:DT:H72	1.99	0.43
11:AB:6236:DA:H2'	11:AB:6237:DT:H72	2.00	0.43
11:AB:6279:DG:H1'	11:AB:6280:DT:H5'	2.00	0.43
11:AB:6280:DT:H2'	11:AB:6281:DT:H71	2.01	0.43
11:AB:6357:DG:H1'	11:AB:6358:DT:H5'	2.00	0.43
11:AB:6416:DA:H2'	11:AB:6417:DT:H71	1.99	0.43
11:AB:6466:DC:H2'	11:AB:6467:DT:H71	1.99	0.43
11:AB:6512:DT:H2'	11:AB:6513:DT:H71	2.01	0.43
11:AB:6789:DG:H1'	11:AB:6790:DT:H5'	2.00	0.43
11:AB:6901:DG:H1'	11:AB:6902:DT:H5'	2.00	0.43
11:AB:6909:DC:H2'	11:AB:6910:DT:H71	1.99	0.43
11:AB:6990:DT:H2'	11:AB:6991:DT:H71	2.01	0.43
14:B1:36:DA:H2'	14:B1:37:DT:H72	2.00	0.43
16:B3:7:DA:H2'	16:B3:8:DT:H72	2.00	0.43
18:B5:27:DT:H2'	18:B5:28:DT:H71	2.01	0.43
29:C5:40:DG:H1'	29:C5:41:DT:H5'	2.00	0.43
30:C6:20:DT:H2'	30:C6:21:DT:H71	2.01	0.43
31:C7:4:DT:H2'	31:C7:5:DT:H71	2.01	0.43
41:D6:36:DC:H2'	41:D6:37:DT:H71	1.99	0.43
47:DD:35:DA:H2'	47:DD:36:DT:H72	2.00	0.43
48:E1:32:DC:C6	48:E1:33:DT:H72	2.54	0.43
51:E5:20:DA:H2'	51:E5:21:DT:H71	1.99	0.43
53:E7:20:DG:H1'	53:E7:21:DT:H5'	2.00	0.43
56:EA:5:DG:H1'	56:EA:6:DT:H5'	2.00	0.43
58:ED:9:DG:H1'	58:ED:10:DT:H5'	2.00	0.43
58:ED:17:DC:H2'	58:ED:18:DT:H71	1.99	0.43
81:H1:7:DA:H2'	81:H1:8:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:H3:8:DT:H71	181:Q9:39:DC:H2'	1.99	0.43
88:H9:12:DC:C6	88:H9:13:DT:H72	2.54	0.43
93:I2:36:DG:H1'	93:I2:37:DT:H5'	2.00	0.43
95:I5:39:DA:H2'	95:I5:40:DT:H72	2.00	0.43
97:I7:14:DG:H1'	97:I7:15:DT:H5'	2.00	0.43
98:I8:5:DT:H2'	98:I8:6:DT:H71	2.01	0.43
100:IA:13:DA:H2'	100:IA:14:DT:H72	2.00	0.43
105:J3:26:DT:H2'	105:J3:27:DT:H71	2.01	0.43
108:J7:3:DT:H2'	108:J7:4:DT:H71	2.01	0.43
115:K2:21:DC:H2'	115:K2:22:DT:H71	1.99	0.43
121:K9:21:DC:H2'	121:K9:22:DT:H71	1.99	0.43
122:KA:21:DA:H2'	145:MD:45:DT:H71	1.99	0.43
122:KA:36:DT:H2'	122:KA:37:DT:H71	2.01	0.43
122:KA:46:DC:C6	122:KA:47:DT:H72	2.54	0.43
130:L7:10:DG:H1'	130:L7:11:DT:H5'	2.00	0.43
149:N6:24:DG:H1'	149:N6:25:DT:H5'	2.00	0.43
162:O9:18:DC:H2'	162:O9:19:DT:H71	1.99	0.43
170:P7:14:DA:H2'	170:P7:15:DT:H72	2.00	0.43
172:P9:12:DT:H2'	172:P9:13:DT:H71	2.01	0.43
176:Q2:11:DC:C6	176:Q2:12:DT:H72	2.54	0.43
180:Q8:17:DA:H2'	180:Q8:18:DT:H72	2.00	0.43
183:QC:14:DA:H2'	183:QC:15:DT:H72	2.00	0.43
187:R5:39:DC:C6	187:R5:40:DT:H72	2.54	0.43
191:RA:23:DA:H2'	191:RA:24:DT:H72	2.00	0.43
197:S7:21:DC:C6	197:S7:22:DT:H72	2.54	0.43
204:T3:31:DG:H1'	204:T3:32:DT:H5'	2.00	0.43
206:T7:25:DA:H2'	206:T7:26:DT:H72	2.00	0.43
210:TC:14:DA:H2'	210:TC:15:DT:H72	2.00	0.43
211:TD:15:DA:H2'	211:TD:16:DT:H72	2.00	0.43
215:U7:8:DA:H2'	215:U7:9:DT:H72	2.00	0.43
219:UC:14:DA:H2'	219:UC:15:DT:H72	2.00	0.43
219:UC:35:DA:H2'	219:UC:36:DT:H72	2.00	0.43
232:W7:26:DT:H2'	232:W7:27:DT:H71	2.01	0.43
3:A3:3:DA:H2'	3:A3:4:DT:H72	2.00	0.43
5:A5:41:DG:H1'	5:A5:42:DT:H5'	2.00	0.43
7:A7:39:DT:H2'	7:A7:40:DT:H71	2.00	0.43
11:AB:3:DA:H2'	11:AB:4:DT:H72	2.00	0.43
11:AB:220:DG:H1'	11:AB:221:DT:H5'	2.00	0.43
11:AB:424:DG:H1'	11:AB:425:DT:H5'	2.00	0.43
11:AB:775:DA:H2'	11:AB:776:DT:H72	2.00	0.43
11:AB:805:DG:H1'	11:AB:806:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:821:DA:H2'	11:AB:822:DT:H72	2.00	0.43
11:AB:889:DC:H2'	11:AB:890:DT:H71	1.99	0.43
11:AB:946:DG:H1'	11:AB:947:DT:H5'	2.00	0.43
11:AB:1262:DA:H2'	11:AB:1263:DT:H72	2.00	0.43
11:AB:1349:DG:H1'	11:AB:1350:DT:H5'	2.00	0.43
11:AB:1350:DT:H2'	11:AB:1351:DT:H71	2.01	0.43
11:AB:1436:DC:H2'	11:AB:1437:DT:H71	1.99	0.43
11:AB:1457:DT:C2'	11:AB:1458:DT:H72	2.48	0.43
11:AB:1767:DA:H2'	11:AB:1768:DT:H72	2.00	0.43
11:AB:1945:DA:H2'	11:AB:1946:DT:H72	2.00	0.43
11:AB:1987:DA:H2'	11:AB:1988:DT:H72	2.00	0.43
11:AB:2132:DT:H2'	11:AB:2133:DT:H71	2.01	0.43
11:AB:2244:DT:H2'	11:AB:2245:DT:H71	2.01	0.43
11:AB:2287:DT:H5'	11:AB:5506:DG:H1'	2.00	0.43
11:AB:2558:DA:H2'	11:AB:2559:DT:H72	2.00	0.43
11:AB:2689:DA:H2'	11:AB:2690:DT:H72	2.00	0.43
11:AB:2710:DA:H2'	11:AB:2711:DT:H72	2.00	0.43
11:AB:2738:DT:H2'	11:AB:2739:DT:H71	2.01	0.43
11:AB:2809:DA:H2'	11:AB:2810:DT:H72	2.00	0.43
11:AB:2927:DT:H2'	11:AB:2928:DT:H71	2.01	0.43
11:AB:2932:DG:H1'	11:AB:2933:DT:H5'	2.00	0.43
11:AB:3007:DA:H2'	11:AB:3008:DT:H72	1.99	0.43
11:AB:3040:DG:H1'	11:AB:3041:DT:H5'	2.00	0.43
11:AB:3534:DT:H2'	11:AB:3535:DT:H71	2.01	0.43
11:AB:3587:DA:H2'	11:AB:3588:DT:H72	2.00	0.43
11:AB:3739:DG:H1'	11:AB:3740:DT:H5'	2.00	0.43
11:AB:3743:DG:H1'	11:AB:3744:DT:H5'	2.00	0.43
11:AB:3845:DA:H2'	11:AB:3846:DT:H72	2.00	0.43
11:AB:3866:DG:H1'	11:AB:3867:DT:H5'	2.00	0.43
11:AB:3919:DC:H2'	11:AB:3920:DT:H71	1.99	0.43
11:AB:4160:DT:H2'	11:AB:4161:DT:H71	2.01	0.43
11:AB:4172:DC:C6	11:AB:4173:DT:H72	2.54	0.43
11:AB:4180:DG:H1'	11:AB:4181:DT:H5'	2.00	0.43
11:AB:4209:DA:H2'	11:AB:4210:DT:H72	2.00	0.43
11:AB:4332:DG:H1'	11:AB:4333:DT:H5'	2.00	0.43
11:AB:4363:DT:H2'	11:AB:4364:DT:H71	2.01	0.43
11:AB:5168:DG:H1'	11:AB:5169:DT:H5'	2.00	0.43
11:AB:5363:DT:C2'	11:AB:5364:DT:H72	2.48	0.43
11:AB:5434:DG:H1'	11:AB:5435:DT:H5'	2.00	0.43
11:AB:5435:DT:H2'	11:AB:5436:DT:H71	2.01	0.43
11:AB:5558:DT:H2'	11:AB:5559:DT:H71	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5679:DT:H2'	11:AB:5680:DT:H71	2.01	0.43
11:AB:5759:DC:H2'	11:AB:5760:DT:H71	1.99	0.43
11:AB:5770:DT:H2'	11:AB:5771:DT:H71	2.01	0.43
11:AB:5837:DG:H1'	11:AB:5838:DT:H5'	2.00	0.43
11:AB:5842:DA:H2'	11:AB:5843:DT:H72	2.00	0.43
11:AB:5846:DA:H2'	11:AB:5847:DT:H72	2.00	0.43
11:AB:5881:DA:H2'	11:AB:5882:DT:H72	2.00	0.43
11:AB:5975:DA:H2'	11:AB:5976:DT:H72	2.00	0.43
11:AB:6148:DT:H2'	11:AB:6149:DT:H71	2.01	0.43
11:AB:6180:DG:H1'	11:AB:6181:DT:H5'	2.00	0.43
11:AB:6289:DC:H2'	11:AB:6290:DT:H71	1.99	0.43
11:AB:6455:DA:H2'	11:AB:6456:DT:H72	2.00	0.43
11:AB:6531:DA:H2'	11:AB:6532:DT:H72	2.00	0.43
11:AB:6538:DC:H2'	11:AB:6539:DT:H71	1.99	0.43
11:AB:6592:DG:H1'	11:AB:6593:DT:H5'	2.00	0.43
11:AB:6611:DG:H1'	11:AB:6612:DT:H5'	2.00	0.43
11:AB:6623:DA:H2'	11:AB:6624:DT:H72	2.00	0.43
11:AB:6711:DT:H1'	11:AB:6712:DC:H5'	2.01	0.43
11:AB:6829:DA:H2'	11:AB:6830:DT:H72	2.00	0.43
11:AB:6982:DG:H1'	11:AB:6983:DT:H5'	2.00	0.43
14:B1:3:DG:H1'	14:B1:4:DT:H5'	2.00	0.43
16:B3:18:DG:H1'	16:B3:19:DT:H5'	2.00	0.43
21:B8:9:DA:H2'	21:B8:10:DT:H72	2.00	0.43
31:C7:13:DG:H1'	31:C7:14:DT:H5'	2.00	0.43
31:C7:15:DG:H1'	31:C7:16:DT:H5'	2.00	0.43
35:CC:28:DG:H1'	35:CC:29:DT:H5'	2.00	0.43
43:D8:43:DA:H2'	43:D8:44:DT:H72	2.00	0.43
49:E2:34:DG:H1'	49:E2:35:DT:H5'	2.00	0.43
51:E5:31:DT:H2'	51:E5:32:DT:H71	2.01	0.43
59:F1:19:DA:H2'	59:F1:20:DT:H72	2.00	0.43
62:F5:39:DA:H2'	62:F5:40:DT:H72	2.00	0.43
62:F5:41:DA:H2'	62:F5:42:DT:H72	2.00	0.43
64:F7:26:DA:H2'	64:F7:27:DT:H72	2.00	0.43
74:G6:31:DA:H2'	74:G6:32:DT:H72	2.00	0.43
80:GD:16:DG:H1'	80:GD:17:DT:H5'	2.00	0.43
82:H2:9:DA:H2'	82:H2:10:DT:H72	2.00	0.43
84:H5:3:DG:H1'	84:H5:4:DT:H5'	2.00	0.43
96:I6:12:DT:H2'	96:I6:13:DT:H71	2.01	0.43
104:J2:40:DA:H2'	104:J2:41:DT:H72	2.00	0.43
107:J6:23:DC:C6	107:J6:24:DT:H72	2.54	0.43
107:J6:27:DC:C6	107:J6:28:DT:H72	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
116:K3:10:DG:H1'	116:K3:11:DT:H5'	2.00	0.43
121:K9:25:DG:H1'	121:K9:26:DT:H5'	2.00	0.43
125:L1:22:DT:H2'	125:L1:23:DT:H71	2.01	0.43
127:L3:13:DT:H2'	127:L3:14:DT:H71	2.01	0.43
141:M8:24:DA:H2'	141:M8:25:DT:H72	2.00	0.43
145:MD:29:DT:H2'	145:MD:30:DT:H71	2.01	0.43
171:P8:18:DT:H2'	171:P8:19:DT:H71	2.01	0.43
178:Q5:22:DC:H2'	178:Q5:23:DT:H71	1.99	0.43
179:Q7:9:DA:H2'	179:Q7:10:DT:H72	2.00	0.43
182:QA:24:DG:H1'	182:QA:25:DT:H5'	2.00	0.43
187:R5:29:DA:H2'	187:R5:30:DT:H72	2.00	0.43
189:R8:32:DA:H2'	189:R8:33:DT:H72	2.00	0.43
192:RC:16:DA:H2'	192:RC:17:DT:H72	2.00	0.43
203:T2:17:DA:H2'	203:T2:18:DT:H72	2.00	0.43
210:TC:17:DA:H2'	210:TC:18:DT:H72	2.00	0.43
219:UC:11:DT:H2'	219:UC:12:DT:H71	2.01	0.43
228:VC:20:DC:C6	228:VC:21:DT:H72	2.54	0.43
232:W7:9:DA:H2'	232:W7:10:DT:H72	2.00	0.43
234:W9:1:DG:H1'	234:W9:2:DT:H5'	2.00	0.43
236:X5:10:DA:H2'	236:X5:11:DT:H72	2.00	0.43
7:A7:38:DT:H2'	7:A7:39:DT:H71	2.01	0.42
8:A8:13:DT:H2'	8:A8:14:DT:H71	2.01	0.42
8:A8:16:DG:H1'	126:L2:21:DT:H5'	2.00	0.42
11:AB:295:DC:H2'	11:AB:296:DT:H71	1.99	0.42
11:AB:336:DG:H1'	11:AB:337:DT:H5'	2.00	0.42
11:AB:361:DG:H1'	11:AB:362:DT:H5'	2.00	0.42
11:AB:541:DG:H1'	11:AB:542:DT:H5'	2.00	0.42
11:AB:771:DT:H2'	11:AB:772:DT:H71	2.01	0.42
11:AB:846:DG:H1'	11:AB:847:DT:H5'	2.00	0.42
11:AB:990:DA:H2'	11:AB:991:DT:H72	2.00	0.42
11:AB:1188:DG:H1'	11:AB:1189:DT:H5'	2.00	0.42
11:AB:1478:DC:H2'	11:AB:1479:DT:H71	1.99	0.42
11:AB:1739:DG:H1'	11:AB:1740:DT:H5'	2.00	0.42
11:AB:1746:DA:H2'	11:AB:1747:DT:H72	2.00	0.42
11:AB:1893:DC:H2'	11:AB:1894:DT:H71	1.99	0.42
11:AB:1902:DG:H1'	11:AB:1903:DT:H5'	2.00	0.42
11:AB:1910:DG:H1'	11:AB:1911:DT:H5'	2.00	0.42
11:AB:2058:DT:H72	11:AB:5777:DA:H2'	2.00	0.42
11:AB:2092:DA:H2'	11:AB:2093:DT:H72	1.99	0.42
11:AB:2161:DA:H2'	11:AB:2162:DT:H72	2.00	0.42
11:AB:2193:DG:H1'	11:AB:2194:DT:H5'	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2243:DT:H2'	11:AB:2244:DT:H71	2.01	0.42
11:AB:2292:DG:H1'	11:AB:2293:DT:H5'	2.00	0.42
11:AB:2314:DA:H2'	11:AB:2315:DT:H72	2.00	0.42
11:AB:2468:DA:H2'	11:AB:2469:DT:H72	2.00	0.42
11:AB:2541:DA:H2'	11:AB:2542:DT:H72	2.00	0.42
11:AB:2569:DG:H1'	11:AB:2570:DT:H5'	2.00	0.42
11:AB:2626:DT:H2'	11:AB:2627:DT:H71	2.01	0.42
11:AB:2874:DT:H5'	11:AB:5061:DG:H1'	2.00	0.42
11:AB:3069:DG:H1'	11:AB:3070:DT:H5'	2.00	0.42
11:AB:3252:DG:H1'	11:AB:3253:DT:H5'	2.00	0.42
11:AB:3382:DA:H2'	11:AB:3383:DT:H72	2.00	0.42
11:AB:3384:DA:H2'	11:AB:3385:DT:H72	2.00	0.42
11:AB:3533:DT:H2'	11:AB:3534:DT:H71	2.01	0.42
11:AB:3547:DG:H1'	11:AB:3548:DT:H5'	2.00	0.42
11:AB:3600:DG:H1'	11:AB:3601:DT:H5'	2.00	0.42
11:AB:3682:DG:H1'	11:AB:3683:DT:H5'	2.00	0.42
11:AB:3881:DT:H2'	11:AB:3882:DT:H71	2.01	0.42
11:AB:3884:DA:H2'	11:AB:3885:DT:H72	2.00	0.42
11:AB:4038:DG:H2'	11:AB:4039:DC:OP2	2.19	0.42
11:AB:4039:DC:H2'	11:AB:4040:DT:H71	1.99	0.42
11:AB:4181:DT:H2'	11:AB:4182:DT:H71	2.01	0.42
11:AB:4505:DT:H1'	11:AB:4506:DC:H5'	2.01	0.42
11:AB:4694:DC:H2'	11:AB:4695:DT:H71	1.99	0.42
11:AB:4814:DG:H1'	11:AB:4815:DT:H5'	2.00	0.42
11:AB:5150:DG:H1'	11:AB:5151:DT:H5'	2.00	0.42
11:AB:5221:DA:H2'	11:AB:5222:DT:H72	1.99	0.42
11:AB:5269:DT:H2'	11:AB:5270:DT:H71	2.01	0.42
11:AB:5274:DA:H2'	11:AB:5275:DT:H72	2.00	0.42
11:AB:5413:DG:H1'	11:AB:5414:DT:H5'	2.00	0.42
11:AB:5443:DT:H2'	11:AB:5444:DT:H71	2.00	0.42
11:AB:5643:DA:H2'	11:AB:5644:DT:H72	2.00	0.42
11:AB:5652:DA:H2'	11:AB:5653:DT:H72	2.00	0.42
11:AB:5720:DG:H1'	11:AB:5721:DT:H5'	2.00	0.42
11:AB:5812:DT:H2'	11:AB:5813:DT:H71	2.00	0.42
11:AB:5894:DT:H2'	11:AB:5895:DT:H71	2.01	0.42
11:AB:5958:DA:H2'	11:AB:5959:DT:H72	2.00	0.42
11:AB:6219:DC:H2'	11:AB:6220:DT:H71	1.99	0.42
11:AB:6221:DT:H2'	11:AB:6222:DT:H71	2.01	0.42
11:AB:6276:DC:H2'	11:AB:6277:DT:H71	1.99	0.42
11:AB:6291:DG:H1'	11:AB:6292:DT:H5'	2.00	0.42
11:AB:6332:DA:H2'	11:AB:6333:DT:H72	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6396:DT:H2'	11:AB:6397:DT:H71	2.01	0.42
11:AB:6470:DC:H2'	11:AB:6471:DT:H71	1.99	0.42
11:AB:6565:DG:H1'	11:AB:6566:DT:H5'	2.00	0.42
11:AB:6842:DG:H1'	11:AB:6843:DT:H5'	2.00	0.42
11:AB:7147:DC:H2'	11:AB:7148:DT:H71	1.99	0.42
11:AB:7169:DG:H1'	11:AB:7170:DT:H5'	2.00	0.42
11:AB:7170:DT:H2'	11:AB:7171:DT:H71	2.01	0.42
14:B1:39:DG:H1'	14:B1:40:DT:H5'	2.00	0.42
21:B8:1:DT:H72	224:V7:22:DA:H2'	2.00	0.42
21:B8:3:DC:H2'	21:B8:4:DT:H71	1.99	0.42
21:B8:6:DT:H2'	21:B8:7:DT:H71	2.01	0.42
22:B9:39:DT:H2'	22:B9:40:DT:H71	2.01	0.42
23:BA:34:DG:H1'	23:BA:35:DT:H5'	2.00	0.42
30:C6:3:DG:H1'	30:C6:4:DT:H5'	2.00	0.42
30:C6:9:DA:H2'	30:C6:10:DT:H72	1.99	0.42
31:C7:23:DG:H1'	31:C7:24:DT:H5'	2.00	0.42
32:C8:1:DA:H2'	32:C8:2:DT:H72	2.00	0.42
33:C9:7:DA:H2'	33:C9:8:DT:H72	2.00	0.42
34:CA:17:DG:H1'	34:CA:18:DT:H5'	2.00	0.42
37:D1:4:DT:H2'	37:D1:5:DT:H71	2.01	0.42
48:E1:21:DG:H1'	48:E1:22:DT:H5'	2.00	0.42
56:EA:6:DT:H2'	56:EA:7:DT:H71	2.01	0.42
57:EC:5:DA:H2'	57:EC:6:DT:H72	2.00	0.42
58:ED:14:DA:H2'	58:ED:15:DT:H72	2.00	0.42
62:F5:27:DA:H2'	62:F5:28:DT:H72	2.00	0.42
63:F6:17:DG:H1'	63:F6:18:DT:H5'	2.00	0.42
64:F7:15:DG:H1'	64:F7:16:DT:H5'	2.00	0.42
72:G3:20:DG:H1'	72:G3:21:DT:H5'	2.00	0.42
79:GC:18:DG:H1'	79:GC:19:DT:H5'	2.00	0.42
84:H5:20:DG:H2''	84:H5:21:DC:OP2	2.19	0.42
86:H7:15:DA:H2'	86:H7:16:DT:H72	1.99	0.42
91:HD:12:DA:H2'	91:HD:13:DT:H72	2.00	0.42
95:I5:22:DG:H1'	95:I5:23:DT:H5'	2.00	0.42
96:I6:5:DG:H1'	96:I6:6:DT:H5'	2.00	0.42
96:I6:11:DT:H2'	96:I6:12:DT:H71	2.01	0.42
97:I7:26:DG:H1'	97:I7:27:DT:H5'	2.00	0.42
105:J3:25:DT:H2'	105:J3:26:DT:H71	2.01	0.42
108:J7:36:DG:H1'	108:J7:37:DT:H5'	2.00	0.42
108:J7:43:DT:H5'	157:O3:10:DG:H1'	2.00	0.42
111:JA:1:DT:H5'	209:TA:25:DG:H1'	2.00	0.42
117:K5:10:DC:H2'	117:K5:11:DT:H71	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
130:L7:19:DA:H2'	130:L7:20:DT:H72	2.00	0.42
140:M7:20:DA:H2'	140:M7:21:DT:H72	2.00	0.42
142:M9:21:DG:H1'	142:M9:22:DT:H5'	2.00	0.42
143:MA:7:DA:H2'	143:MA:8:DT:H72	2.00	0.42
147:N3:32:DT:H2'	147:N3:33:DT:H71	2.01	0.42
148:N5:7:DG:H1'	148:N5:8:DT:H5'	2.00	0.42
148:N5:24:DC:H2'	148:N5:25:DT:H71	1.99	0.42
158:O5:29:DA:H2'	158:O5:30:DT:H72	1.99	0.42
158:O5:46:DA:H2'	158:O5:47:DT:H72	2.00	0.42
161:O8:23:DG:H1'	161:O8:24:DT:H5'	2.00	0.42
165:OD:3:DA:H2'	165:OD:4:DT:H72	2.00	0.42
165:OD:17:DA:H2'	165:OD:18:DT:H72	2.00	0.42
178:Q5:17:DA:H2'	178:Q5:18:DT:H72	2.00	0.42
188:R7:3:DG:H1'	188:R7:4:DT:H5'	2.00	0.42
189:R8:12:DT:H2'	189:R8:13:DT:H71	2.01	0.42
190:R9:1:DT:H2'	190:R9:2:DT:H71	2.01	0.42
190:R9:2:DT:H2'	190:R9:3:DT:H71	2.01	0.42
202:SD:12:DC:H2'	202:SD:13:DT:H71	1.99	0.42
207:T8:5:DA:H2'	207:T8:6:DT:H72	2.00	0.42
217:U9:25:DA:H2'	217:U9:26:DT:H72	1.99	0.42
233:W8:5:DA:H2'	233:W8:6:DT:H72	2.00	0.42
234:W9:8:DG:H1'	234:W9:9:DT:H5'	2.00	0.42
3:A3:1:DT:H72	50:E3:19:DA:H2'	1.99	0.42
5:A5:11:DT:H2'	5:A5:12:DT:H71	2.01	0.42
7:A7:18:DA:H2'	7:A7:19:DT:H72	2.00	0.42
7:A7:19:DT:H2'	7:A7:20:DT:H71	2.00	0.42
8:A8:7:DG:H1'	8:A8:8:DT:H5'	2.00	0.42
8:A8:25:DT:H2'	8:A8:26:DT:H71	2.00	0.42
11:AB:57:DT:H1'	11:AB:58:DC:H5'	2.02	0.42
11:AB:172:DT:H2'	11:AB:173:DT:H71	2.00	0.42
11:AB:371:DA:H2'	11:AB:372:DT:H72	2.00	0.42
11:AB:439:DG:H1'	11:AB:440:DT:H5'	2.00	0.42
11:AB:470:DT:H1'	11:AB:471:DC:H5'	2.02	0.42
11:AB:533:DT:H1'	11:AB:534:DC:H5'	2.02	0.42
11:AB:768:DG:H2'	11:AB:769:DC:OP2	2.19	0.42
11:AB:865:DC:H2'	11:AB:866:DT:H71	1.99	0.42
11:AB:970:DG:H1'	11:AB:971:DT:H5'	2.00	0.42
11:AB:1192:DG:H1'	11:AB:1193:DT:H5'	2.00	0.42
11:AB:1204:DA:H2'	11:AB:1205:DT:H72	2.00	0.42
11:AB:1315:DG:H1'	11:AB:1316:DT:H5'	2.00	0.42
11:AB:1412:DT:H72	11:AB:6159:DA:H2'	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1453:DA:H2'	11:AB:1454:DT:H72	2.00	0.42
11:AB:1601:DT:H1'	11:AB:1602:DC:H5'	2.02	0.42
11:AB:1605:DA:H2'	11:AB:1606:DT:H72	2.00	0.42
11:AB:1615:DT:H1'	11:AB:1616:DC:H5'	2.02	0.42
11:AB:1648:DG:H1'	11:AB:1649:DT:H5'	2.00	0.42
11:AB:1740:DT:H2'	11:AB:1741:DT:H71	2.01	0.42
11:AB:1872:DC:H2'	11:AB:1873:DT:H71	1.99	0.42
11:AB:1963:DA:H2'	11:AB:1964:DT:H72	1.99	0.42
11:AB:2006:DT:H72	11:AB:5913:DT:C2'	2.48	0.42
11:AB:2133:DT:H2'	11:AB:2134:DT:H71	2.01	0.42
11:AB:2139:DG:H1'	11:AB:2140:DT:H5'	2.00	0.42
11:AB:2298:DG:H1'	11:AB:2299:DT:H5'	2.00	0.42
11:AB:2321:DA:H2'	11:AB:2322:DT:H72	2.00	0.42
11:AB:2347:DT:H2'	11:AB:2348:DT:H71	2.00	0.42
11:AB:2456:DG:H1'	11:AB:2457:DT:H5'	2.00	0.42
11:AB:2625:DT:H2'	11:AB:2626:DT:H71	2.01	0.42
11:AB:2633:DA:H2'	11:AB:2634:DT:H72	2.00	0.42
11:AB:2766:DG:H1'	11:AB:2767:DT:H5'	2.00	0.42
11:AB:2918:DG:H2''	11:AB:2919:DC:OP2	2.19	0.42
11:AB:2929:DA:H2'	11:AB:2930:DT:H72	2.00	0.42
11:AB:3466:DG:H1'	11:AB:3467:DT:H5'	2.00	0.42
11:AB:3478:DG:H1'	11:AB:3479:DT:H5'	2.00	0.42
11:AB:3579:DT:H72	11:AB:4754:DT:C2'	2.48	0.42
11:AB:3604:DG:H1'	11:AB:3605:DT:H5'	2.00	0.42
11:AB:3661:DG:H1'	11:AB:3662:DT:H5'	2.00	0.42
11:AB:3689:DG:H1'	11:AB:3690:DT:H5'	2.00	0.42
11:AB:3772:DA:H2'	11:AB:3773:DT:H72	1.99	0.42
11:AB:3909:DA:H2'	11:AB:4414:DT:H72	2.00	0.42
11:AB:4092:DG:H1'	11:AB:4093:DT:H5'	2.00	0.42
11:AB:4218:DT:H1'	11:AB:4219:DC:H5'	2.02	0.42
11:AB:4409:DT:H2'	11:AB:4410:DT:H71	2.00	0.42
11:AB:4459:DT:C2'	11:AB:4460:DT:H72	2.48	0.42
11:AB:4472:DG:H2''	11:AB:4473:DC:OP2	2.19	0.42
11:AB:4616:DA:H2'	11:AB:4617:DT:H72	2.00	0.42
11:AB:4753:DG:H1'	11:AB:4754:DT:H5'	2.00	0.42
11:AB:4846:DG:H2''	11:AB:4847:DC:OP2	2.19	0.42
11:AB:4978:DT:H1'	11:AB:4979:DC:H5'	2.01	0.42
11:AB:5068:DG:H1'	11:AB:5069:DT:H5'	2.00	0.42
11:AB:5104:DC:H2'	11:AB:5105:DT:H71	1.99	0.42
11:AB:5158:DT:H1'	11:AB:5159:DC:H5'	2.02	0.42
11:AB:5205:DG:H1'	11:AB:5206:DT:H5'	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5359:DA:H2'	11:AB:5360:DT:H72	2.00	0.42
11:AB:5549:DC:H2'	11:AB:5550:DT:H71	1.99	0.42
11:AB:5746:DT:C2'	11:AB:5747:DT:H72	2.48	0.42
11:AB:5965:DG:H1'	11:AB:5966:DT:H5'	2.00	0.42
11:AB:6110:DA:H2'	11:AB:6111:DT:H72	2.00	0.42
11:AB:6111:DT:H1'	11:AB:6112:DC:H5'	2.02	0.42
11:AB:6139:DC:H2'	11:AB:6140:DT:H71	1.99	0.42
11:AB:6270:DG:H1'	11:AB:6271:DT:H5'	2.00	0.42
11:AB:6521:DG:H1'	11:AB:6522:DT:H5'	2.00	0.42
11:AB:6548:DT:H2'	11:AB:6549:DT:H71	2.01	0.42
11:AB:6563:DA:H2'	11:AB:6564:DT:H72	2.00	0.42
11:AB:6612:DT:H1'	11:AB:6613:DC:H5'	2.02	0.42
11:AB:6718:DT:H2'	11:AB:6719:DT:H71	2.00	0.42
11:AB:6771:DT:C2'	11:AB:6772:DT:H72	2.48	0.42
11:AB:6879:DT:H2'	11:AB:6880:DT:H71	2.00	0.42
11:AB:6914:DT:H1'	11:AB:6915:DC:H5'	2.02	0.42
11:AB:6989:DT:H2'	11:AB:6990:DT:H71	2.01	0.42
13:AD:39:DT:H2'	13:AD:40:DT:H71	2.00	0.42
16:B3:8:DT:H2'	16:B3:9:DT:H71	2.00	0.42
19:B6:17:DG:H1'	19:B6:18:DT:H5'	2.00	0.42
21:B8:12:DG:H1'	21:B8:13:DT:H5'	2.00	0.42
30:C6:45:DG:H1'	117:K5:1:DT:H5'	2.01	0.42
43:D8:27:DC:H2'	43:D8:28:DT:H71	1.99	0.42
47:DD:6:DG:H1'	47:DD:7:DT:H5'	2.00	0.42
50:E3:11:DT:H2'	50:E3:12:DT:H71	2.01	0.42
54:E8:13:DT:H2'	54:E8:14:DT:H71	2.01	0.42
73:G5:22:DG:H1'	73:G5:23:DT:H5'	2.00	0.42
74:G6:14:DT:H2'	74:G6:15:DT:H71	2.01	0.42
75:G7:6:DC:H2'	75:G7:7:DT:H71	1.99	0.42
80:GD:21:DG:H2''	80:GD:22:DC:OP2	2.19	0.42
83:H3:16:DC:H2'	83:H3:17:DT:H71	1.99	0.42
85:H6:19:DT:H2'	85:H6:20:DT:H71	2.01	0.42
86:H7:21:DG:H2''	86:H7:22:DC:OP2	2.19	0.42
88:H9:1:DA:H2'	88:H9:2:DT:H72	2.00	0.42
93:I2:38:DG:H1'	93:I2:39:DT:H5'	2.00	0.42
95:I5:6:DT:H1'	95:I5:7:DC:H5'	2.02	0.42
95:I5:25:DT:H2'	95:I5:26:DT:H71	2.01	0.42
96:I6:10:DG:H1'	96:I6:11:DT:H5'	2.00	0.42
101:IC:8:DT:C2'	101:IC:9:DT:H72	2.48	0.42
105:J3:19:DT:H2'	105:J3:20:DT:H71	2.00	0.42
108:J7:12:DG:H1'	108:J7:13:DT:H5'	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
108:J7:27:DT:H1'	108:J7:28:DC:H5'	2.02	0.42
113:JD:33:DG:H1'	113:JD:34:DT:H5'	2.00	0.42
127:L3:9:DT:C2'	127:L3:10:DT:H72	2.48	0.42
129:L6:18:DA:H2'	129:L6:19:DT:H72	2.00	0.42
133:LA:19:DG:H1'	133:LA:20:DT:H5'	2.00	0.42
145:MD:24:DG:H2''	145:MD:25:DC:OP2	2.19	0.42
145:MD:25:DC:H2'	145:MD:26:DT:H71	1.99	0.42
145:MD:33:DG:H1'	145:MD:34:DT:H5'	2.00	0.42
145:MD:38:DG:H2''	145:MD:39:DC:OP2	2.19	0.42
152:N9:12:DG:H1'	152:N9:13:DT:H5'	2.00	0.42
165:OD:33:DA:H2'	165:OD:34:DT:H72	2.00	0.42
167:P3:5:DA:H2'	167:P3:6:DT:H72	2.00	0.42
167:P3:14:DT:H2'	167:P3:15:DT:H71	2.01	0.42
173:PA:36:DG:H2''	173:PA:37:DC:OP2	2.19	0.42
178:Q5:26:DA:H2'	178:Q5:27:DT:H72	2.00	0.42
180:Q8:14:DA:H2'	180:Q8:15:DT:H72	2.00	0.42
189:R8:25:DT:H2'	189:R8:26:DT:H71	2.01	0.42
196:S5:4:DG:H1'	196:S5:5:DT:H5'	2.00	0.42
212:U2:14:DA:H2'	212:U2:15:DT:H72	2.00	0.42
214:U5:12:DA:H2'	214:U5:13:DT:H72	2.00	0.42
219:UC:10:DT:H2'	219:UC:11:DT:H71	2.01	0.42
222:V3:8:DT:H2'	222:V3:9:DT:H71	2.01	0.42
230:W3:23:DA:H2'	230:W3:24:DT:H72	2.00	0.42
230:W3:32:DT:H2'	230:W3:33:DT:H71	2.01	0.42
1:A1:17:DA:H2'	1:A1:18:DT:H72	2.00	0.42
3:A3:21:DA:H2'	3:A3:22:DT:H72	2.00	0.42
5:A5:3:DG:H1'	5:A5:4:DT:H5'	2.00	0.42
5:A5:5:DA:H2'	5:A5:6:DT:H72	2.00	0.42
5:A5:12:DT:H2'	5:A5:13:DT:H71	2.01	0.42
5:A5:16:DA:H2'	5:A5:17:DT:H72	2.00	0.42
7:A7:35:DG:H1'	7:A7:36:DT:H5'	2.00	0.42
7:A7:40:DT:H1'	7:A7:41:DC:H5'	2.02	0.42
11:AB:5:DA:H2'	11:AB:6:DT:H72	2.00	0.42
11:AB:35:DA:H2'	11:AB:36:DT:H72	2.00	0.42
11:AB:54:DG:H1'	11:AB:55:DT:H5'	2.00	0.42
11:AB:141:DA:H2'	11:AB:142:DT:H72	2.00	0.42
11:AB:171:DA:H2'	11:AB:172:DT:H72	2.00	0.42
11:AB:261:DG:H1'	11:AB:262:DT:H5'	2.00	0.42
11:AB:266:DG:H1'	11:AB:7179:DT:H5'	2.00	0.42
11:AB:502:DA:H2'	11:AB:503:DT:H72	2.00	0.42
11:AB:603:DT:H2'	11:AB:604:DT:H71	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:624:DT:H2'	11:AB:625:DT:H71	2.00	0.42
11:AB:645:DT:H2'	11:AB:646:DT:H71	2.00	0.42
11:AB:769:DC:H2'	11:AB:770:DT:H71	1.99	0.42
11:AB:886:DG:H2''	11:AB:887:DC:OP2	2.19	0.42
11:AB:1090:DG:H1'	11:AB:1091:DT:H5'	2.00	0.42
11:AB:1120:DT:H2'	11:AB:1121:DT:H71	2.00	0.42
11:AB:1171:DA:H2'	11:AB:1172:DT:H72	2.00	0.42
11:AB:1228:DG:H1'	11:AB:1229:DT:H5'	2.00	0.42
11:AB:1279:DT:H2'	11:AB:1280:DT:H71	2.01	0.42
11:AB:1288:DG:H1'	11:AB:1289:DT:H5'	2.00	0.42
11:AB:1419:DT:H1'	11:AB:1420:DC:H5'	2.02	0.42
11:AB:1438:DT:H2'	11:AB:1439:DT:H71	2.01	0.42
11:AB:1439:DT:H2'	11:AB:1440:DT:H71	2.01	0.42
11:AB:1607:DA:H2'	11:AB:1608:DT:H72	2.00	0.42
11:AB:1741:DT:H2'	11:AB:1742:DT:H71	2.01	0.42
11:AB:1742:DT:H1'	11:AB:1743:DC:H5'	2.02	0.42
11:AB:1815:DG:H1'	11:AB:1816:DT:H5'	2.00	0.42
11:AB:2196:DG:H1'	11:AB:2197:DT:H5'	2.00	0.42
11:AB:2213:DG:H1'	11:AB:5622:DT:H5'	2.00	0.42
11:AB:2235:DG:H1'	11:AB:2236:DT:H5'	2.00	0.42
11:AB:2365:DT:H71	11:AB:5436:DT:H2'	2.01	0.42
11:AB:2380:DA:H2'	11:AB:2381:DT:H72	2.00	0.42
11:AB:2416:DG:H1'	11:AB:2417:DT:H5'	2.00	0.42
11:AB:2502:DA:H2'	11:AB:2503:DT:H72	2.00	0.42
11:AB:2559:DT:H2'	11:AB:2560:DT:H71	2.00	0.42
11:AB:2827:DA:H2'	11:AB:2828:DT:H72	2.00	0.42
11:AB:2831:DT:H2'	11:AB:2832:DT:H71	2.00	0.42
11:AB:2833:DG:H1'	11:AB:2834:DT:H5'	2.00	0.42
11:AB:2849:DT:H2'	11:AB:2850:DT:H71	2.00	0.42
11:AB:2866:DA:H2'	11:AB:2867:DT:H72	2.00	0.42
11:AB:2923:DT:H1'	11:AB:2924:DC:H5'	2.02	0.42
11:AB:3014:DT:H2'	11:AB:3015:DT:H71	2.00	0.42
11:AB:3089:DA:H2'	11:AB:3090:DT:H72	2.00	0.42
11:AB:3098:DA:H2'	11:AB:3099:DT:H72	2.00	0.42
11:AB:3200:DT:H2'	11:AB:3201:DT:H71	2.01	0.42
11:AB:3240:DA:H2'	11:AB:3241:DT:H72	2.00	0.42
11:AB:3245:DT:H2'	11:AB:3246:DT:H71	2.01	0.42
11:AB:3295:DT:H1'	11:AB:3296:DC:H5'	2.02	0.42
11:AB:3365:DA:H2'	11:AB:3366:DT:H72	2.00	0.42
11:AB:3510:DT:H2'	11:AB:3511:DT:H71	2.00	0.42
11:AB:3595:DA:H2'	11:AB:3596:DT:H72	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3611:DG:H1'	11:AB:3612:DT:H5'	2.00	0.42
11:AB:3797:DA:H2'	11:AB:3798:DT:H72	2.00	0.42
11:AB:3956:DT:H5'	11:AB:4375:DG:H1'	2.00	0.42
11:AB:4147:DT:H1'	11:AB:4148:DC:H5'	2.02	0.42
11:AB:4155:DC:H2'	11:AB:4156:DT:H71	1.99	0.42
11:AB:4228:DG:H1'	11:AB:4229:DT:H5'	2.00	0.42
11:AB:4285:DT:H2'	11:AB:4286:DT:H71	2.00	0.42
11:AB:4366:DT:H2'	11:AB:4367:DT:H71	2.01	0.42
11:AB:4681:DG:H1'	11:AB:4682:DT:H5'	2.00	0.42
11:AB:4750:DA:H2'	11:AB:4751:DT:H72	2.00	0.42
11:AB:4872:DT:H2'	11:AB:4873:DT:H71	2.00	0.42
11:AB:5173:DT:H1'	11:AB:5174:DC:H5'	2.02	0.42
11:AB:5222:DT:H2'	11:AB:5223:DT:H71	2.00	0.42
11:AB:5268:DT:H2'	11:AB:5269:DT:H71	2.01	0.42
11:AB:5338:DA:H2'	11:AB:5339:DT:H72	2.00	0.42
11:AB:5369:DA:H2'	11:AB:5370:DT:H72	2.00	0.42
11:AB:5394:DT:H2'	11:AB:5395:DT:H71	2.00	0.42
11:AB:5422:DA:H2'	11:AB:5423:DT:H72	2.00	0.42
11:AB:5479:DT:H1'	11:AB:5480:DC:H5'	2.02	0.42
11:AB:5562:DA:H2'	11:AB:5563:DT:H72	2.00	0.42
11:AB:5569:DA:H2'	11:AB:5570:DT:H72	2.00	0.42
11:AB:5580:DT:H2'	11:AB:5581:DT:H71	2.00	0.42
11:AB:5587:DG:H1'	11:AB:5588:DT:H5'	2.00	0.42
11:AB:5710:DG:H1'	11:AB:5711:DT:H5'	2.00	0.42
11:AB:5791:DT:H2'	11:AB:5792:DT:H71	2.00	0.42
11:AB:5934:DA:H2'	11:AB:5935:DT:H72	2.00	0.42
11:AB:5942:DG:H1'	11:AB:5943:DT:H5'	2.00	0.42
11:AB:6032:DA:H2'	11:AB:6033:DT:H72	2.00	0.42
11:AB:6132:DT:H2'	11:AB:6133:DT:H71	2.00	0.42
11:AB:6173:DA:H2'	11:AB:6174:DT:H72	2.00	0.42
11:AB:6195:DT:H1'	11:AB:6196:DC:H5'	2.02	0.42
11:AB:6197:DT:H2'	11:AB:6198:DT:H71	2.00	0.42
11:AB:6239:DG:H1'	11:AB:6240:DT:H5'	2.00	0.42
11:AB:6258:DT:H2'	11:AB:6259:DT:H71	2.00	0.42
11:AB:6425:DT:H2'	11:AB:6426:DT:H71	2.00	0.42
11:AB:6434:DG:H1'	11:AB:6435:DT:H5'	2.00	0.42
11:AB:6458:DG:H1'	11:AB:6459:DT:H5'	2.00	0.42
11:AB:6464:DC:H2'	11:AB:6465:DT:H71	1.99	0.42
11:AB:6499:DG:H1'	11:AB:6500:DT:H5'	2.00	0.42
11:AB:6549:DT:H2'	11:AB:6550:DT:H71	2.01	0.42
11:AB:6568:DG:H1'	11:AB:6569:DT:H5'	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6577:DG:H1'	11:AB:6578:DT:H5'	2.00	0.42
11:AB:6795:DG:H1'	11:AB:6796:DT:H5'	2.00	0.42
11:AB:6874:DG:H1'	11:AB:6875:DT:H5'	2.00	0.42
11:AB:6883:DG:H1'	11:AB:6884:DT:H5'	2.00	0.42
11:AB:6937:DG:H1'	11:AB:6938:DT:H5'	2.00	0.42
11:AB:6985:DG:H1'	11:AB:6986:DT:H5'	2.00	0.42
11:AB:7056:DT:H2'	11:AB:7057:DT:H71	2.00	0.42
11:AB:7078:DG:H1'	11:AB:7079:DT:H5'	2.00	0.42
11:AB:7130:DT:H1'	11:AB:7131:DC:H5'	2.02	0.42
13:AD:11:DG:H1'	13:AD:12:DT:H5'	2.00	0.42
18:B5:8:DG:H2''	18:B5:9:DC:OP2	2.19	0.42
18:B5:20:DT:H2'	18:B5:21:DT:H71	2.00	0.42
21:B8:5:DT:H2'	21:B8:6:DT:H71	2.01	0.42
24:BC:34:DG:H1'	24:BC:35:DT:H5'	2.00	0.42
27:C2:12:DC:H2'	27:C2:13:DT:H71	1.99	0.42
31:C7:11:DT:H2'	31:C7:12:DT:H71	2.00	0.42
32:C8:12:DT:H2'	32:C8:13:DT:H71	2.00	0.42
32:C8:42:DG:H1'	32:C8:43:DT:H5'	2.00	0.42
35:CC:31:DG:H2''	35:CC:32:DC:OP2	2.19	0.42
43:D8:14:DT:H1'	159:O6:8:DC:H5'	2.01	0.42
47:DD:7:DT:H1'	47:DD:8:DC:H5'	2.02	0.42
49:E2:21:DT:H2'	49:E2:22:DT:H71	2.01	0.42
51:E5:5:DT:H1'	51:E5:6:DC:H5'	2.02	0.42
55:E9:43:DG:H1'	55:E9:44:DT:H5'	2.00	0.42
68:FC:11:DG:H1'	68:FC:12:DT:H5'	2.00	0.42
69:FD:12:DA:H2'	69:FD:13:DT:H72	2.00	0.42
72:G3:4:DG:H1'	72:G3:5:DT:H5'	2.00	0.42
81:H1:21:DT:H2'	81:H1:22:DT:H71	2.01	0.42
82:H2:28:DT:H1'	82:H2:29:DC:H5'	2.02	0.42
88:H9:4:DT:H1'	88:H9:5:DC:H5'	2.02	0.42
91:HD:26:DG:H1'	91:HD:27:DT:H5'	2.00	0.42
106:J5:9:DT:H2'	106:J5:10:DT:H71	2.00	0.42
108:J7:26:DA:H2'	108:J7:27:DT:H72	2.00	0.42
109:J8:36:DT:H71	232:W7:27:DT:H2'	2.01	0.42
109:J8:38:DA:H2'	109:J8:39:DT:H72	2.00	0.42
112:JC:13:DC:H2'	112:JC:14:DT:H71	1.99	0.42
113:JD:19:DA:H2'	113:JD:20:DT:H72	2.00	0.42
114:K1:19:DA:H2'	114:K1:20:DT:H72	2.00	0.42
130:L7:20:DT:H1'	130:L7:21:DC:H5'	2.02	0.42
130:L7:48:DA:H2'	130:L7:49:DT:H72	2.00	0.42
131:L8:27:DG:H1'	131:L8:28:DT:H5'	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
135:LD:8:DT:H2'	135:LD:9:DT:H71	2.00	0.42
135:LD:18:DA:H2'	135:LD:19:DT:H72	2.00	0.42
136:M2:18:DG:H2''	136:M2:19:DC:OP2	2.19	0.42
136:M2:21:DT:H2'	166:P2:17:DT:H71	2.01	0.42
137:M3:27:DT:H2'	137:M3:28:DT:H71	2.00	0.42
138:M5:23:DG:H1'	138:M5:24:DT:H5'	2.00	0.42
145:MD:15:DG:H1'	145:MD:16:DT:H5'	2.00	0.42
146:N2:11:DT:H2'	146:N2:12:DT:H71	2.01	0.42
149:N6:28:DA:H2'	149:N6:29:DT:H72	2.00	0.42
149:N6:36:DG:H1'	149:N6:37:DT:H5'	2.00	0.42
152:N9:8:DA:H2'	152:N9:9:DT:H72	2.00	0.42
155:ND:4:DT:H1'	155:ND:5:DC:H5'	2.02	0.42
156:O2:59:DG:H1'	156:O2:60:DT:H5'	2.00	0.42
157:O3:23:DT:H2'	157:O3:24:DT:H71	2.00	0.42
158:O5:7:DG:H1'	158:O5:8:DT:H5'	2.00	0.42
166:P2:34:DT:H2'	166:P2:35:DT:H71	2.01	0.42
168:P5:15:DG:H1'	168:P5:16:DT:H5'	2.00	0.42
170:P7:18:DA:H2'	170:P7:19:DT:H72	2.00	0.42
171:P8:20:DA:H2'	171:P8:21:DT:H72	2.00	0.42
173:PA:18:DG:H1'	173:PA:19:DT:H5'	2.00	0.42
174:PC:7:DG:H2''	174:PC:8:DC:OP2	2.19	0.42
178:Q5:35:DT:H1'	214:U5:15:DC:H5'	2.02	0.42
180:Q8:15:DT:H1'	180:Q8:16:DC:H5'	2.02	0.42
184:QD:26:DA:H2'	184:QD:27:DT:H72	2.00	0.42
188:R7:11:DT:H2'	188:R7:12:DT:H71	2.00	0.42
195:S3:19:DT:H2'	195:S3:20:DT:H71	2.01	0.42
204:T3:27:DT:H1'	204:T3:28:DC:H5'	2.02	0.42
209:TA:3:DT:H1'	209:TA:4:DC:H5'	2.02	0.42
209:TA:12:DG:H2''	209:TA:13:DC:OP2	2.19	0.42
216:U8:9:DT:H2'	216:U8:10:DT:H71	2.00	0.42
218:UA:16:DG:H1'	218:UA:17:DT:H5'	2.00	0.42
220:UD:22:DC:H2'	220:UD:23:DT:H71	1.99	0.42
223:V5:39:DA:H2'	223:V5:40:DT:H72	2.00	0.42
223:V5:40:DT:H2'	223:V5:41:DT:H71	2.00	0.42
227:VA:12:DG:H1'	227:VA:13:DT:H5'	2.00	0.42
231:W5:25:DA:H2'	231:W5:26:DT:H72	2.00	0.42
236:X5:14:DA:H2'	236:X5:15:DT:H72	2.00	0.42
237:X7:2:DA:H2'	237:X7:3:DT:H72	2.00	0.42
238:X9:8:DA:H2'	238:X9:9:DT:H72	2.00	0.42
4:A4:15:DA:H2'	4:A4:16:DT:H72	2.00	0.42
6:A6:15:DT:H1'	6:A6:16:DC:H5'	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:38:DG:H1'	11:AB:39:DT:H5'	2.00	0.42
11:AB:56:DA:H2'	11:AB:57:DT:H72	2.00	0.42
11:AB:133:DT:H2'	11:AB:134:DT:H71	2.01	0.42
11:AB:161:DA:H2'	11:AB:162:DT:H72	2.00	0.42
11:AB:195:DT:H1'	11:AB:196:DC:H5'	2.02	0.42
11:AB:201:DT:H1'	11:AB:202:DC:H5'	2.02	0.42
11:AB:214:DT:H2'	11:AB:215:DT:H71	2.00	0.42
11:AB:445:DG:H1'	11:AB:446:DT:H5'	2.01	0.42
11:AB:447:DT:H1'	11:AB:448:DC:H5'	2.02	0.42
11:AB:532:DA:H2'	11:AB:533:DT:H72	2.00	0.42
11:AB:716:DA:H2'	11:AB:717:DT:H72	2.00	0.42
11:AB:717:DT:H1'	11:AB:718:DC:H5'	2.02	0.42
11:AB:787:DA:H2'	11:AB:788:DT:H72	2.00	0.42
11:AB:795:DT:H2'	11:AB:796:DT:H71	2.01	0.42
11:AB:824:DG:H1'	11:AB:825:DT:H5'	2.00	0.42
11:AB:1258:DT:H2'	11:AB:1259:DT:H71	2.01	0.42
11:AB:1273:DT:H2'	11:AB:1274:DT:H71	2.01	0.42
11:AB:1285:DC:H2'	11:AB:1286:DT:H71	1.99	0.42
11:AB:1384:DT:H2'	11:AB:1385:DT:H71	2.00	0.42
11:AB:1446:DT:H2'	11:AB:1447:DT:H71	2.01	0.42
11:AB:1512:DT:H2'	11:AB:1513:DT:H71	2.00	0.42
11:AB:1636:DT:H1'	11:AB:1637:DC:H5'	2.02	0.42
11:AB:1644:DT:H2'	11:AB:1645:DT:H71	2.01	0.42
11:AB:1688:DA:H2'	11:AB:1689:DT:H72	2.00	0.42
11:AB:1689:DT:H2'	11:AB:1690:DT:H71	2.00	0.42
11:AB:1709:DA:H2'	11:AB:1710:DT:H72	2.00	0.42
11:AB:1710:DT:H2'	11:AB:1711:DT:H71	2.00	0.42
11:AB:1777:DA:H2'	11:AB:1778:DT:H72	2.00	0.42
11:AB:1821:DG:H1'	11:AB:1822:DT:H5'	2.00	0.42
11:AB:1832:DT:H1'	11:AB:1833:DC:H5'	2.02	0.42
11:AB:1870:DA:H2'	11:AB:1871:DT:H72	2.00	0.42
11:AB:2127:DA:H2'	11:AB:2128:DT:H72	2.00	0.42
11:AB:2140:DT:H2'	11:AB:2141:DT:H71	2.01	0.42
11:AB:2528:DT:H1'	11:AB:2529:DC:H5'	2.02	0.42
11:AB:2536:DT:H2'	11:AB:2537:DT:H71	2.01	0.42
11:AB:2607:DG:H1'	11:AB:2608:DT:H5'	2.00	0.42
11:AB:2640:DA:H2'	11:AB:2641:DT:H72	2.00	0.42
11:AB:2767:DT:H2'	11:AB:2768:DT:H71	2.01	0.42
11:AB:2875:DT:H1'	11:AB:2876:DC:H5'	2.01	0.42
11:AB:3032:DT:H2'	11:AB:3033:DT:H71	2.00	0.42
11:AB:3037:DA:H2'	11:AB:3038:DT:H72	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3058:DA:H2'	11:AB:3059:DT:H72	2.00	0.42
11:AB:3062:DT:H2'	11:AB:3063:DT:H71	2.01	0.42
11:AB:3194:DT:H2'	11:AB:3195:DT:H71	2.00	0.42
11:AB:3268:DT:H1'	11:AB:3269:DC:H5'	2.02	0.42
11:AB:3396:DT:H2'	11:AB:3397:DT:H71	2.01	0.42
11:AB:3535:DT:H2'	11:AB:3536:DT:H71	2.01	0.42
11:AB:3588:DT:H2'	11:AB:3589:DT:H71	2.01	0.42
11:AB:3615:DT:H1'	11:AB:3616:DC:H5'	2.02	0.42
11:AB:3641:DC:H2'	11:AB:3642:DT:H71	1.99	0.42
11:AB:3731:DG:H1'	11:AB:3732:DT:H5'	2.00	0.42
11:AB:3961:DT:H2'	11:AB:3962:DT:H71	2.01	0.42
11:AB:3977:DC:H2'	11:AB:3978:DT:H71	1.99	0.42
11:AB:4094:DG:H1'	11:AB:4095:DT:H5'	2.00	0.42
11:AB:4100:DG:H1'	11:AB:4101:DT:H5'	2.00	0.42
11:AB:4157:DT:H2'	11:AB:4158:DT:H71	2.01	0.42
11:AB:4202:DG:H2''	11:AB:4203:DC:OP2	2.19	0.42
11:AB:4222:DT:H2'	11:AB:4223:DT:H71	2.00	0.42
11:AB:4243:DT:H2'	11:AB:4244:DT:H71	2.00	0.42
11:AB:4281:DA:H2'	11:AB:4282:DT:H72	2.00	0.42
11:AB:4290:DG:H1'	11:AB:4291:DT:H5'	2.00	0.42
11:AB:4458:DT:H2'	11:AB:4459:DT:H71	2.01	0.42
11:AB:4528:DA:H2'	11:AB:4529:DT:H72	2.00	0.42
11:AB:4551:DG:H1'	11:AB:4552:DT:H5'	2.00	0.42
11:AB:4712:DC:H2'	11:AB:4713:DT:H71	1.99	0.42
11:AB:4881:DG:H1'	11:AB:4882:DT:H5'	2.00	0.42
11:AB:4939:DT:H2'	11:AB:4940:DT:H71	2.00	0.42
11:AB:4984:DT:H2'	11:AB:4985:DT:H71	2.01	0.42
11:AB:5097:DT:H1'	11:AB:5098:DC:H5'	2.02	0.42
11:AB:5113:DG:H2''	11:AB:5114:DC:OP2	2.19	0.42
11:AB:5297:DA:H2'	11:AB:5298:DT:H72	2.00	0.42
11:AB:5340:DA:H2'	11:AB:5341:DT:H72	2.00	0.42
11:AB:5347:DT:H2'	11:AB:5348:DT:H71	2.01	0.42
11:AB:5598:DT:H2'	11:AB:5599:DT:H71	2.00	0.42
11:AB:5617:DT:H2'	11:AB:5618:DT:H71	2.01	0.42
11:AB:5661:DT:H2'	11:AB:5662:DT:H71	2.01	0.42
11:AB:5700:DT:H1'	11:AB:5701:DC:H5'	2.02	0.42
11:AB:5751:DT:H2'	11:AB:5752:DT:H71	2.01	0.42
11:AB:5757:DC:H2'	11:AB:5758:DT:H71	1.99	0.42
11:AB:5766:DT:H2'	11:AB:5767:DT:H71	2.01	0.42
11:AB:5833:DA:H2'	11:AB:5834:DT:H72	2.00	0.42
11:AB:5897:DT:H2'	11:AB:5898:DT:H71	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5924:DG:H1'	11:AB:5925:DT:H5'	2.00	0.42
11:AB:5963:DC:H2'	11:AB:5964:DT:H71	1.99	0.42
11:AB:6126:DG:H1'	11:AB:6127:DT:H5'	2.00	0.42
11:AB:6174:DT:H2'	11:AB:6175:DT:H71	2.00	0.42
11:AB:6203:DT:H2'	11:AB:6204:DT:H71	2.01	0.42
11:AB:6218:DG:H2''	11:AB:6219:DC:OP2	2.20	0.42
11:AB:6281:DT:H2'	11:AB:6282:DT:H71	2.01	0.42
11:AB:6313:DT:H1'	11:AB:6314:DC:H5'	2.02	0.42
11:AB:6518:DG:H1'	11:AB:6519:DT:H5'	2.00	0.42
11:AB:6523:DA:H2'	11:AB:6524:DT:H72	2.00	0.42
11:AB:6524:DT:H2'	11:AB:6525:DT:H71	2.01	0.42
11:AB:6550:DT:H1'	11:AB:6551:DC:H5'	2.02	0.42
11:AB:6635:DT:H2'	11:AB:6636:DT:H71	2.01	0.42
11:AB:6765:DG:H1'	11:AB:6766:DT:H5'	2.00	0.42
11:AB:6770:DT:H2'	11:AB:6771:DT:H71	2.01	0.42
11:AB:6874:DG:H2'	11:AB:6875:DT:H71	2.02	0.42
11:AB:6944:DA:H2'	11:AB:6945:DT:H72	2.00	0.42
11:AB:6945:DT:H2'	11:AB:6946:DT:H71	2.00	0.42
11:AB:6947:DT:H1'	11:AB:6948:DC:H5'	2.02	0.42
11:AB:7032:DG:H1'	11:AB:7033:DT:H5'	2.00	0.42
11:AB:7104:DT:H2'	11:AB:7105:DT:H71	2.01	0.42
11:AB:7115:DT:H2'	11:AB:7116:DT:H71	2.01	0.42
11:AB:7180:DG:H1'	11:AB:7181:DT:H5'	2.00	0.42
12:AC:22:DG:H2''	65:F8:1:DC:OP1	2.19	0.42
17:B4:18:DG:H1'	17:B4:19:DT:H5'	2.00	0.42
21:B8:26:DG:H1'	21:B8:27:DT:H5'	2.00	0.42
22:B9:17:DG:H1'	22:B9:18:DT:H5'	2.00	0.42
26:C1:23:DT:H2'	26:C1:24:DT:H71	2.01	0.42
30:C6:27:DT:H2'	30:C6:28:DT:H71	2.00	0.42
31:C7:5:DT:H2'	49:E2:31:DT:H71	2.01	0.42
32:C8:11:DT:H5'	230:W3:42:DG:H1'	2.00	0.42
32:C8:48:DC:H2'	32:C8:49:DT:H71	1.99	0.42
41:D6:33:DG:H1'	41:D6:34:DT:H5'	2.00	0.42
43:D8:13:DA:H2'	43:D8:14:DT:H72	2.00	0.42
43:D8:44:DT:H2'	43:D8:45:DT:H71	2.00	0.42
51:E5:12:DC:H2'	51:E5:13:DT:H71	1.99	0.42
54:E8:37:DG:H1'	79:GC:1:DT:H5'	2.00	0.42
61:F3:2:DA:H2'	61:F3:3:DT:H72	2.00	0.42
62:F5:32:DT:H1'	62:F5:33:DC:H5'	2.02	0.42
72:G3:11:DG:H1'	72:G3:12:DT:H5'	2.00	0.42
73:G5:16:DG:H1'	73:G5:17:DT:H5'	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:G6:36:DC:H2'	74:G6:37:DT:H71	1.99	0.42
75:G7:13:DA:H2'	75:G7:14:DT:H72	2.00	0.42
76:G8:1:DG:H1'	76:G8:2:DT:H5'	2.00	0.42
76:G8:15:DG:H1'	76:G8:16:DT:H5'	2.00	0.42
77:G9:15:DT:H2'	77:G9:16:DT:H71	2.00	0.42
84:H5:18:DA:H2'	84:H5:19:DT:H72	2.00	0.42
91:HD:9:DT:H2'	91:HD:10:DT:H71	2.01	0.42
94:I3:40:DG:H1'	94:I3:41:DT:H5'	2.00	0.42
94:I3:53:DT:H2'	94:I3:54:DT:H71	2.01	0.42
99:I9:14:DG:H1'	99:I9:15:DT:H5'	2.00	0.42
100:IA:14:DT:H2'	100:IA:15:DT:H71	2.01	0.42
102:ID:30:DG:H2''	102:ID:31:DC:OP2	2.19	0.42
103:J1:11:DT:H2'	103:J1:12:DT:H71	2.00	0.42
117:K5:12:DT:H1'	117:K5:13:DC:H5'	2.02	0.42
117:K5:36:DG:H1'	117:K5:37:DT:H5'	2.00	0.42
119:K7:6:DT:H2'	119:K7:7:DT:H71	2.00	0.42
124:KD:8:DT:H2'	124:KD:9:DT:H71	2.00	0.42
125:L1:23:DT:H2'	125:L1:24:DT:H71	2.01	0.42
127:L3:14:DT:H2'	211:TD:29:DT:H71	2.01	0.42
129:L6:19:DT:H2'	129:L6:20:DT:H71	2.00	0.42
141:M8:28:DT:H2'	141:M8:29:DT:H71	2.01	0.42
145:MD:30:DT:H2'	173:PA:22:DT:H71	2.01	0.42
149:N6:21:DG:H1'	149:N6:22:DT:H5'	2.00	0.42
153:NA:8:DT:H1'	153:NA:9:DC:H5'	2.02	0.42
154:NC:19:DT:H2'	154:NC:20:DT:H71	2.00	0.42
157:O3:22:DA:H2'	157:O3:23:DT:H72	2.00	0.42
158:O5:15:DA:H2'	158:O5:16:DT:H72	2.00	0.42
158:O5:40:DT:H1'	158:O5:41:DC:H5'	2.02	0.42
158:O5:51:DC:H2'	158:O5:52:DT:H71	1.99	0.42
160:O7:8:DG:H1'	160:O7:9:DT:H5'	2.00	0.42
161:O8:6:DG:H1'	161:O8:7:DT:H5'	2.00	0.42
161:O8:46:DT:H2'	161:O8:47:DT:H71	2.01	0.42
163:OA:16:DA:H2'	163:OA:17:DT:H72	2.00	0.42
164:OC:26:DG:H1'	164:OC:27:DT:H5'	2.00	0.42
165:OD:57:DT:H2'	165:OD:58:DT:H71	2.01	0.42
166:P2:13:DG:H1'	166:P2:14:DT:H5'	2.00	0.42
167:P3:6:DT:H2'	167:P3:7:DT:H71	2.00	0.42
171:P8:18:DT:H71	185:R2:14:DT:H2'	2.01	0.42
171:P8:22:DT:H2'	171:P8:23:DT:H71	2.01	0.42
178:Q5:24:DG:H1'	178:Q5:25:DT:H5'	2.00	0.42
179:Q7:5:DT:H1'	179:Q7:6:DC:H5'	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
179:Q7:19:DA:H2'	179:Q7:20:DT:H72	2.00	0.42
189:R8:5:DA:H2'	189:R8:6:DT:H72	2.00	0.42
192:RC:7:DG:H2''	192:RC:8:DC:OP2	2.19	0.42
195:S3:13:DT:H1'	195:S3:14:DC:H5'	2.02	0.42
204:T3:18:DG:H1'	204:T3:19:DT:H5'	2.00	0.42
213:U3:2:DA:H2'	213:U3:3:DT:H72	2.00	0.42
215:U7:5:DA:H2'	215:U7:6:DT:H72	2.00	0.42
217:U9:14:DT:H2'	217:U9:15:DT:H71	2.01	0.42
221:V2:15:DG:H1'	221:V2:16:DT:H5'	2.00	0.42
230:W3:24:DT:H2'	230:W3:25:DT:H71	2.00	0.42
235:WD:18:DA:H2'	235:WD:19:DT:H72	2.00	0.42
5:A5:20:DT:H2'	5:A5:21:DT:H71	2.00	0.42
5:A5:25:DG:H1'	5:A5:26:DT:H5'	2.00	0.42
9:A9:14:DT:H2'	9:A9:15:DT:H71	2.01	0.42
11:AB:20:DG:H2''	11:AB:21:DC:OP2	2.19	0.42
11:AB:65:DT:H2'	11:AB:66:DT:H71	2.01	0.42
11:AB:252:DT:H2'	11:AB:253:DT:H71	2.00	0.42
11:AB:253:DT:H2'	11:AB:254:DT:H71	2.00	0.42
11:AB:282:DT:H2'	11:AB:283:DT:H71	2.01	0.42
11:AB:340:DG:H1'	11:AB:341:DT:H5'	2.00	0.42
11:AB:376:DT:H2'	11:AB:377:DT:H71	2.00	0.42
11:AB:377:DT:H1'	11:AB:378:DC:H5'	2.02	0.42
11:AB:463:DC:H2'	11:AB:464:DT:H71	1.99	0.42
11:AB:493:DT:H2'	11:AB:494:DT:H71	2.01	0.42
11:AB:499:DG:H2''	11:AB:500:DC:OP2	2.19	0.42
11:AB:505:DC:H2'	11:AB:506:DT:H71	1.99	0.42
11:AB:587:DT:H1'	11:AB:588:DC:H5'	2.02	0.42
11:AB:709:DC:H2'	11:AB:710:DT:H71	1.99	0.42
11:AB:766:DG:H2''	11:AB:767:DC:OP2	2.19	0.42
11:AB:776:DT:H2'	11:AB:777:DT:H71	2.01	0.42
11:AB:898:DG:H1'	11:AB:899:DT:H5'	2.00	0.42
11:AB:910:DG:H1'	11:AB:911:DT:H5'	2.00	0.42
11:AB:981:DT:H5'	11:AB:6714:DG:H1'	2.00	0.42
11:AB:1138:DG:H1'	11:AB:1139:DT:H5'	2.00	0.42
11:AB:1159:DT:H2'	11:AB:1160:DT:H71	2.00	0.42
11:AB:1173:DT:H1'	11:AB:1174:DC:H5'	2.02	0.42
11:AB:1215:DA:H2'	11:AB:1216:DT:H72	2.00	0.42
11:AB:1305:DT:H1'	11:AB:1306:DC:H5'	2.02	0.42
11:AB:1315:DG:H2'	11:AB:1316:DT:H71	2.02	0.42
11:AB:1351:DT:H2'	11:AB:1352:DT:H71	2.01	0.42
11:AB:1354:DT:H2'	11:AB:1355:DT:H71	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1376:DG:H1'	11:AB:1377:DT:H5'	2.00	0.42
11:AB:1383:DT:H2'	11:AB:1384:DT:H71	2.00	0.42
11:AB:1392:DT:H2'	11:AB:1393:DT:H71	2.00	0.42
11:AB:1450:DG:H1'	11:AB:1451:DT:H5'	2.00	0.42
11:AB:1459:DG:H2''	11:AB:1460:DC:OP2	2.19	0.42
11:AB:1462:DT:H2'	11:AB:1463:DT:H71	2.01	0.42
11:AB:1507:DT:H2'	11:AB:1508:DT:H71	2.00	0.42
11:AB:1508:DT:H2'	11:AB:1509:DT:H71	2.00	0.42
11:AB:1546:DT:H2'	11:AB:1547:DT:H71	2.00	0.42
11:AB:1556:DC:H2'	11:AB:1557:DT:H71	1.98	0.42
11:AB:1566:DT:H2'	11:AB:1567:DT:H71	2.00	0.42
11:AB:1575:DT:H2'	11:AB:1576:DT:H71	2.00	0.42
11:AB:1649:DT:H2'	11:AB:1650:DT:H71	2.01	0.42
11:AB:1736:DA:H2'	11:AB:1737:DT:H72	2.00	0.42
11:AB:1748:DT:H2'	11:AB:1749:DT:H71	2.01	0.42
11:AB:1773:DG:H1'	11:AB:1774:DT:H5'	2.00	0.42
11:AB:1779:DT:H2'	11:AB:1780:DT:H71	2.01	0.42
11:AB:1877:DT:H2'	11:AB:1878:DT:H71	2.01	0.42
11:AB:1964:DT:H2'	11:AB:1965:DT:H71	2.00	0.42
11:AB:2141:DT:H1'	11:AB:2142:DC:H5'	2.02	0.42
11:AB:2293:DT:H2'	11:AB:2294:DT:H71	2.01	0.42
11:AB:2459:DT:H2'	11:AB:2460:DT:H71	2.01	0.42
11:AB:2527:DT:H2'	11:AB:5284:DT:H71	2.00	0.42
11:AB:2530:DT:H2'	11:AB:2531:DT:H71	2.01	0.42
11:AB:2620:DA:H2'	11:AB:2621:DT:H72	2.00	0.42
11:AB:2638:DC:H2'	11:AB:2639:DT:H71	1.99	0.42
11:AB:2662:DA:H2'	11:AB:2663:DT:H72	2.00	0.42
11:AB:2720:DT:H2'	11:AB:2721:DT:H71	2.01	0.42
11:AB:2756:DT:H2'	11:AB:2757:DT:H71	2.01	0.42
11:AB:2810:DT:H2'	11:AB:2811:DT:H71	2.00	0.42
11:AB:2829:DG:H1'	11:AB:2830:DT:H5'	2.00	0.42
11:AB:2937:DT:H1'	11:AB:2938:DC:H5'	2.02	0.42
11:AB:2971:DT:H1'	11:AB:2972:DC:H5'	2.02	0.42
11:AB:3059:DT:H2'	11:AB:3060:DT:H71	2.01	0.42
11:AB:3113:DC:H2'	11:AB:3114:DT:H71	1.99	0.42
11:AB:3157:DT:H2'	11:AB:3158:DT:H71	2.00	0.42
11:AB:3199:DA:H2'	11:AB:3200:DT:H72	2.00	0.42
11:AB:3254:DC:H2'	11:AB:3255:DT:H71	1.99	0.42
11:AB:3262:DT:H1'	11:AB:3263:DC:H5'	2.02	0.42
11:AB:3311:DT:H2'	11:AB:3312:DT:H71	2.00	0.42
11:AB:3331:DT:H2'	11:AB:3332:DT:H71	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3550:DT:H2'	11:AB:3551:DT:H71	2.01	0.42
11:AB:3597:DA:H2'	11:AB:3598:DT:H72	2.00	0.42
11:AB:3598:DT:H2'	11:AB:3599:DT:H71	2.01	0.42
11:AB:3604:DG:H2'	11:AB:3605:DT:H71	2.02	0.42
11:AB:3624:DT:H2'	11:AB:3625:DT:H71	2.00	0.42
11:AB:3630:DT:H1'	11:AB:3631:DC:H5'	2.02	0.42
11:AB:3665:DC:H2'	11:AB:3666:DT:H71	1.99	0.42
11:AB:3757:DG:H1'	11:AB:3758:DT:H5'	2.00	0.42
11:AB:3872:DC:H2'	11:AB:3873:DT:H71	1.99	0.42
11:AB:4043:DT:H1'	11:AB:4044:DC:H5'	2.02	0.42
11:AB:4078:DA:H2'	11:AB:4079:DT:H72	2.00	0.42
11:AB:4165:DT:H2'	11:AB:4166:DT:H71	2.01	0.42
11:AB:4204:DT:H1'	11:AB:4205:DC:H5'	2.02	0.42
11:AB:4332:DG:H2'	11:AB:4333:DT:H71	2.02	0.42
11:AB:4416:DA:H2'	11:AB:4417:DT:H72	2.00	0.42
11:AB:4456:DA:H2'	11:AB:4457:DT:H72	2.00	0.42
11:AB:4502:DC:H2'	11:AB:4503:DT:H71	1.99	0.42
11:AB:4510:DG:H2''	11:AB:4511:DC:OP2	2.19	0.42
11:AB:4535:DG:H1'	11:AB:4536:DT:H5'	2.00	0.42
11:AB:4604:DG:H1'	11:AB:4605:DT:H5'	2.00	0.42
11:AB:4614:DT:H1'	11:AB:4615:DC:H5'	2.01	0.42
11:AB:4728:DT:H1'	11:AB:4729:DC:H5'	2.02	0.42
11:AB:4787:DA:H2'	11:AB:4788:DT:H72	2.00	0.42
11:AB:4914:DT:H2'	11:AB:4915:DT:H71	2.01	0.42
11:AB:4941:DT:H1'	11:AB:4942:DC:H5'	2.02	0.42
11:AB:5030:DT:H2'	11:AB:5031:DT:H71	2.01	0.42
11:AB:5059:DC:H2'	11:AB:5060:DT:H71	1.99	0.42
11:AB:5183:DG:H1'	11:AB:5184:DT:H5'	2.00	0.42
11:AB:5213:DT:H1'	11:AB:5214:DC:H5'	2.02	0.42
11:AB:5264:DA:H2'	11:AB:5265:DT:H72	2.00	0.42
11:AB:5271:DT:H2'	11:AB:5272:DT:H71	2.01	0.42
11:AB:5323:DG:H2''	11:AB:5324:DC:OP2	2.19	0.42
11:AB:5328:DT:H2'	11:AB:5329:DT:H71	2.01	0.42
11:AB:5341:DT:H2'	11:AB:5342:DT:H71	2.01	0.42
11:AB:5361:DA:H2'	11:AB:5362:DT:H72	2.00	0.42
11:AB:5362:DT:H2'	11:AB:5363:DT:H71	2.01	0.42
11:AB:5382:DG:H1'	11:AB:5383:DT:H5'	2.00	0.42
11:AB:5457:DT:H2'	11:AB:5458:DT:H71	2.00	0.42
11:AB:5470:DT:H1'	11:AB:5471:DC:H5'	2.02	0.42
11:AB:5512:DT:H1'	11:AB:5513:DC:H5'	2.02	0.42
11:AB:5579:DA:H2'	11:AB:5580:DT:H72	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5645:DT:H2'	11:AB:5646:DT:H71	2.01	0.42
11:AB:5721:DT:H1'	11:AB:5722:DC:H5'	2.02	0.42
11:AB:5745:DT:H2'	11:AB:5746:DT:H71	2.01	0.42
11:AB:5843:DT:H2'	11:AB:5844:DT:H71	2.01	0.42
11:AB:5856:DT:H2'	11:AB:5857:DT:H71	2.01	0.42
11:AB:6149:DT:H2'	11:AB:6150:DT:H71	2.01	0.42
11:AB:6161:DT:H2'	11:AB:6162:DT:H71	2.00	0.42
11:AB:6205:DT:H2'	11:AB:6206:DT:H71	2.01	0.42
11:AB:6273:DA:H2'	11:AB:6274:DT:H72	2.00	0.42
11:AB:6301:DT:H2'	11:AB:6302:DT:H71	2.00	0.42
11:AB:6393:DT:H2'	11:AB:6394:DT:H71	2.01	0.42
11:AB:6419:DT:H2'	11:AB:6420:DT:H71	2.00	0.42
11:AB:6565:DG:H2'	11:AB:6566:DT:H71	2.02	0.42
11:AB:6573:DG:H1'	11:AB:6574:DT:H5'	2.00	0.42
11:AB:6638:DT:H2'	11:AB:6639:DT:H71	2.00	0.42
11:AB:6700:DT:H2'	11:AB:6701:DT:H71	2.01	0.42
11:AB:6757:DT:H2'	11:AB:6758:DT:H71	2.01	0.42
11:AB:6769:DA:H2'	11:AB:6770:DT:H72	2.00	0.42
11:AB:6790:DT:H2'	11:AB:6791:DT:H71	2.00	0.42
11:AB:6940:DG:H2''	11:AB:6941:DC:OP2	2.19	0.42
11:AB:7026:DA:H2'	11:AB:7027:DT:H72	2.00	0.42
11:AB:7035:DT:H2'	11:AB:7036:DT:H71	2.00	0.42
11:AB:7040:DG:H1'	11:AB:7041:DT:H5'	2.00	0.42
11:AB:7044:DT:H1'	11:AB:7045:DC:H5'	2.02	0.42
11:AB:7066:DG:H1'	11:AB:7067:DT:H5'	2.00	0.42
11:AB:7095:DT:H2'	11:AB:7096:DT:H71	2.00	0.42
18:B5:36:DT:H1'	18:B5:37:DC:H5'	2.02	0.42
19:B6:23:DT:H2'	19:B6:24:DT:H71	2.01	0.42
21:B8:7:DT:H1'	21:B8:8:DC:H5'	2.02	0.42
21:B8:21:DA:H2'	21:B8:22:DT:H72	2.00	0.42
22:B9:36:DC:H5'	228:VC:7:DT:H1'	2.02	0.42
31:C7:10:DA:H2'	31:C7:11:DT:H72	2.00	0.42
33:C9:14:DG:H1'	33:C9:15:DT:H5'	2.00	0.42
33:C9:17:DA:H2'	33:C9:18:DT:H72	2.00	0.42
37:D1:7:DT:H2'	138:M5:29:DT:H71	2.01	0.42
42:D7:4:DG:H1'	42:D7:5:DT:H5'	2.00	0.42
43:D8:10:DC:H2'	43:D8:11:DT:H71	1.99	0.42
43:D8:28:DT:H1'	52:E6:22:DC:H5'	2.02	0.42
43:D8:41:DA:H2'	43:D8:42:DT:H72	2.00	0.42
50:E3:6:DA:H2'	50:E3:7:DT:H72	2.00	0.42
55:E9:5:DT:H2'	55:E9:6:DT:H71	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:EC:19:DA:H2'	57:EC:20:DT:H72	2.00	0.42
60:F2:9:DT:H2'	60:F2:10:DT:H71	2.01	0.42
62:F5:29:DT:H2'	62:F5:30:DT:H71	2.01	0.42
64:F7:15:DG:H2'	64:F7:16:DT:H71	2.02	0.42
64:F7:27:DT:H2'	64:F7:28:DT:H71	2.01	0.42
71:G2:7:DT:H1'	71:G2:8:DC:H5'	2.02	0.42
73:G5:3:DC:H2'	73:G5:4:DT:H71	1.99	0.42
74:G6:22:DC:H2'	74:G6:23:DT:H71	1.99	0.42
79:GC:1:DT:H1'	79:GC:2:DC:H5'	2.02	0.42
79:GC:15:DT:H1'	79:GC:16:DC:H5'	2.02	0.42
81:H1:20:DA:H2'	81:H1:21:DT:H72	2.00	0.42
82:H2:44:DC:H2'	82:H2:45:DT:H71	1.99	0.42
82:H2:47:DG:H2''	82:H2:48:DC:OP2	2.19	0.42
83:H3:13:DA:H2'	83:H3:14:DT:H72	2.00	0.42
84:H5:14:DG:H1'	84:H5:15:DT:H5'	2.00	0.42
86:H7:16:DT:H2'	86:H7:17:DT:H71	2.00	0.42
95:I5:35:DT:H2'	138:M5:15:DT:H71	2.00	0.42
96:I6:8:DT:H2'	96:I6:9:DT:H71	2.01	0.42
102:ID:14:DT:H2'	102:ID:15:DT:H71	2.01	0.42
104:J2:27:DC:H2'	104:J2:28:DT:H71	1.99	0.42
109:J8:23:DT:H2'	109:J8:24:DT:H71	2.01	0.42
109:J8:53:DG:H2''	109:J8:54:DC:OP2	2.19	0.42
117:K5:30:DT:H2'	117:K5:31:DT:H71	2.01	0.42
119:K7:3:DG:H2''	119:K7:4:DC:OP2	2.19	0.42
122:KA:37:DT:H2'	122:KA:38:DT:H71	2.01	0.42
126:L2:17:DG:H1'	126:L2:18:DT:H5'	2.00	0.42
128:L5:4:DG:H1'	128:L5:5:DT:H5'	2.00	0.42
130:L7:30:DG:H1'	130:L7:31:DT:H5'	2.00	0.42
130:L7:35:DA:H2'	177:Q3:21:DT:H72	2.00	0.42
144:MC:17:DT:H2'	144:MC:18:DT:H71	2.00	0.42
144:MC:20:DT:H2'	144:MC:21:DT:H71	2.00	0.42
145:MD:9:DA:H2'	226:V9:12:DT:H72	2.00	0.42
146:N2:3:DG:H1'	146:N2:4:DT:H5'	2.00	0.42
147:N3:27:DT:H2'	147:N3:28:DT:H71	2.00	0.42
148:N5:10:DT:H1'	148:N5:11:DC:H5'	2.02	0.42
149:N6:31:DT:H1'	149:N6:32:DC:H5'	2.02	0.42
152:N9:5:DT:H2'	152:N9:6:DT:H71	2.01	0.42
160:O7:43:DG:H1'	160:O7:44:DT:H5'	2.00	0.42
161:O8:48:DT:H2'	161:O8:49:DT:H71	2.01	0.42
166:P2:6:DG:H1'	166:P2:7:DT:H5'	2.00	0.42
172:P9:11:DT:H2'	172:P9:12:DT:H71	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
178:Q5:19:DT:H2'	178:Q5:20:DT:H71	2.01	0.42
185:R2:11:DG:H2''	185:R2:12:DC:OP2	2.19	0.42
186:R3:14:DT:H1'	186:R3:15:DC:H5'	2.02	0.42
187:R5:15:DT:H71	223:V5:34:DT:H2'	2.01	0.42
188:R7:8:DG:H2''	188:R7:9:DC:OP2	2.19	0.42
189:R8:33:DT:H2'	189:R8:34:DT:H71	2.01	0.42
189:R8:34:DT:H1'	189:R8:35:DC:H5'	2.01	0.42
190:R9:6:DT:H2'	190:R9:7:DT:H71	2.00	0.42
193:RD:20:DA:H2'	193:RD:21:DT:H72	2.00	0.42
198:S8:37:DC:H2'	198:S8:38:DT:H71	1.99	0.42
202:SD:28:DT:H2'	202:SD:29:DT:H71	2.01	0.42
203:T2:18:DT:H2'	203:T2:19:DT:H71	2.01	0.42
209:TA:40:DT:H1'	209:TA:41:DC:H5'	2.02	0.42
212:U2:20:DG:H1'	212:U2:21:DT:H5'	2.00	0.42
214:U5:23:DT:H2'	214:U5:24:DT:H71	2.00	0.42
214:U5:30:DG:H1'	214:U5:31:DT:H5'	2.00	0.42
214:U5:41:DT:H2'	214:U5:42:DT:H71	2.00	0.42
216:U8:8:DA:H2'	216:U8:9:DT:H72	2.00	0.42
218:UA:1:DT:H2'	218:UA:2:DT:H71	2.01	0.42
218:UA:18:DG:H1'	218:UA:19:DT:H5'	2.00	0.42
219:UC:15:DT:H2'	219:UC:16:DT:H71	2.01	0.42
223:V5:3:DG:H1'	223:V5:4:DT:H5'	2.00	0.42
226:V9:17:DT:H1'	226:V9:18:DC:H5'	2.02	0.42
228:VC:6:DA:H2'	228:VC:7:DT:H72	2.00	0.42
2:A2:15:DT:H2'	2:A2:16:DT:H71	2.01	0.42
4:A4:31:DA:H2'	4:A4:32:DT:H72	2.00	0.42
5:A5:6:DT:H1'	5:A5:7:DC:H5'	2.02	0.42
6:A6:14:DC:C6	6:A6:15:DT:H72	2.54	0.42
7:A7:27:DT:H2'	118:K6:14:DT:H71	2.01	0.42
11:AB:32:DG:H1'	11:AB:33:DT:H5'	2.00	0.42
11:AB:44:DG:H2''	11:AB:45:DC:OP2	2.19	0.42
11:AB:143:DT:H2'	11:AB:144:DT:H71	2.01	0.42
11:AB:194:DT:H2'	11:AB:195:DT:H71	2.00	0.42
11:AB:200:DC:H2'	11:AB:201:DT:H71	1.99	0.42
11:AB:355:DC:H2'	11:AB:356:DT:H71	1.99	0.42
11:AB:359:DG:H1'	11:AB:360:DT:H5'	2.00	0.42
11:AB:361:DG:C8	11:AB:362:DT:H72	2.55	0.42
11:AB:457:DG:H2''	11:AB:458:DC:OP2	2.19	0.42
11:AB:565:DC:H2'	11:AB:566:DT:H71	1.99	0.42
11:AB:584:DG:H1'	11:AB:585:DT:H5'	2.00	0.42
11:AB:586:DC:H2'	11:AB:587:DT:H71	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:671:DT:H1'	11:AB:672:DC:H5'	2.02	0.42
11:AB:842:DT:H1'	11:AB:843:DC:H5'	2.02	0.42
11:AB:904:DC:H2'	11:AB:905:DT:H71	1.99	0.42
11:AB:917:DT:H2'	11:AB:918:DT:H71	2.01	0.42
11:AB:948:DT:H1'	11:AB:949:DC:H5'	2.02	0.42
11:AB:965:DT:H2'	11:AB:966:DT:H71	2.00	0.42
11:AB:1081:DC:H2'	11:AB:1082:DT:H71	1.99	0.42
11:AB:1153:DG:H1'	11:AB:1154:DT:H5'	2.00	0.42
11:AB:1223:DT:H2'	11:AB:1224:DT:H71	2.00	0.42
11:AB:1235:DT:H2'	11:AB:1236:DT:H71	2.00	0.42
11:AB:1313:DT:H2'	11:AB:1314:DT:H71	2.00	0.42
11:AB:1371:DT:H2'	11:AB:1372:DT:H71	2.00	0.42
11:AB:1545:DT:H2'	11:AB:1546:DT:H71	2.00	0.42
11:AB:1554:DT:H2'	11:AB:1555:DT:H71	2.00	0.42
11:AB:1584:DT:H71	11:AB:6121:DT:H2'	2.01	0.42
11:AB:1660:DG:H1'	11:AB:1661:DT:H5'	2.00	0.42
11:AB:1675:DC:H2'	11:AB:1676:DT:H71	1.99	0.42
11:AB:1686:DT:H2'	11:AB:1687:DT:H71	2.00	0.42
11:AB:1711:DT:H2'	11:AB:1712:DT:H71	2.00	0.42
11:AB:1845:DG:C8	11:AB:1846:DT:H72	2.55	0.42
11:AB:1925:DT:H1'	11:AB:1926:DC:H5'	2.02	0.42
11:AB:1931:DT:H1'	11:AB:1932:DC:H5'	2.02	0.42
11:AB:1965:DT:H2'	11:AB:1966:DT:H71	2.00	0.42
11:AB:1969:DT:H2'	11:AB:1970:DT:H71	2.00	0.42
11:AB:2035:DG:H2''	11:AB:2036:DC:OP2	2.20	0.42
11:AB:2093:DT:H2'	11:AB:2094:DT:H71	2.00	0.42
11:AB:2137:DT:H2'	11:AB:2138:DT:H71	2.01	0.42
11:AB:2158:DT:H2'	11:AB:2159:DT:H71	2.01	0.42
11:AB:2225:DT:H2'	11:AB:2226:DT:H71	2.01	0.42
11:AB:2272:DT:H2'	11:AB:5577:DT:H71	2.00	0.42
11:AB:2412:DT:H1'	11:AB:2413:DC:H5'	2.02	0.42
11:AB:2430:DT:H2'	11:AB:2431:DT:H71	2.00	0.42
11:AB:2458:DA:H2'	11:AB:2459:DT:H72	2.00	0.42
11:AB:2596:DT:H2'	11:AB:2597:DT:H71	2.00	0.42
11:AB:2690:DT:H2'	11:AB:2691:DT:H71	2.01	0.42
11:AB:2735:DT:H2'	11:AB:2736:DT:H71	2.01	0.42
11:AB:2824:DT:H2'	11:AB:2825:DT:H71	2.00	0.42
11:AB:3008:DT:H2'	11:AB:3009:DT:H71	2.00	0.42
11:AB:3016:DT:H2'	11:AB:3017:DT:H71	2.00	0.42
11:AB:3159:DC:H2'	11:AB:3160:DT:H71	1.99	0.42
11:AB:3243:DG:H1'	11:AB:3244:DT:H5'	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3362:DT:H2'	11:AB:3363:DT:H71	2.01	0.42
11:AB:3404:DT:H2'	11:AB:3405:DT:H71	2.01	0.42
11:AB:3466:DG:H2'	11:AB:3467:DT:H71	2.02	0.42
11:AB:3589:DT:H1'	11:AB:3590:DC:H5'	2.02	0.42
11:AB:3711:DT:H1'	11:AB:3712:DC:H5'	2.02	0.42
11:AB:3885:DT:H2'	11:AB:3886:DT:H71	2.01	0.42
11:AB:4000:DT:H1'	11:AB:4001:DC:H5'	2.02	0.42
11:AB:4125:DT:H2'	11:AB:4126:DT:H71	2.00	0.42
11:AB:4184:DG:H2''	11:AB:4185:DC:OP2	2.19	0.42
11:AB:4198:DT:H1'	11:AB:4199:DC:H5'	2.02	0.42
11:AB:4203:DC:C6	11:AB:4204:DT:H72	2.54	0.42
11:AB:4230:DT:H1'	11:AB:4231:DC:H5'	2.02	0.42
11:AB:4269:DT:H2'	11:AB:4270:DT:H71	2.00	0.42
11:AB:4414:DT:H2'	11:AB:4415:DT:H71	2.00	0.42
11:AB:4489:DG:H2''	11:AB:4490:DC:OP2	2.19	0.42
11:AB:4617:DT:H2'	11:AB:4618:DT:H71	2.00	0.42
11:AB:4629:DG:H2''	11:AB:4630:DC:OP2	2.19	0.42
11:AB:4726:DC:H2'	11:AB:4727:DT:H71	1.99	0.42
11:AB:4824:DA:H2'	11:AB:4825:DT:H72	2.00	0.42
11:AB:4923:DT:H2'	11:AB:4924:DT:H71	2.00	0.42
11:AB:4940:DT:H2'	11:AB:4941:DT:H71	2.00	0.42
11:AB:4985:DT:H1'	11:AB:4986:DC:H5'	2.02	0.42
11:AB:4993:DG:H1'	11:AB:4994:DT:H5'	2.00	0.42
11:AB:5068:DG:C8	11:AB:5069:DT:H72	2.55	0.42
11:AB:5119:DG:H2''	11:AB:5120:DC:OP2	2.19	0.42
11:AB:5168:DG:H2'	11:AB:5169:DT:H71	2.02	0.42
11:AB:5209:DT:H2'	11:AB:5210:DT:H71	2.00	0.42
11:AB:5265:DT:H2'	11:AB:5266:DT:H71	2.01	0.42
11:AB:5365:DG:H2''	11:AB:5366:DC:OP2	2.19	0.42
11:AB:5367:DT:H2'	11:AB:5368:DT:H71	2.00	0.42
11:AB:5437:DT:H2'	11:AB:5438:DT:H71	2.00	0.42
11:AB:5462:DT:H2'	11:AB:5463:DT:H71	2.00	0.42
11:AB:5476:DC:H2'	11:AB:5477:DT:H71	1.99	0.42
11:AB:5675:DA:H2'	11:AB:5676:DT:H72	2.00	0.42
11:AB:5684:DT:H2'	11:AB:5685:DT:H71	2.01	0.42
11:AB:5774:DT:H2'	11:AB:5775:DT:H71	2.01	0.42
11:AB:5809:DT:H2'	11:AB:5810:DT:H71	2.00	0.42
11:AB:6185:DT:H1'	11:AB:6186:DC:H5'	2.02	0.42
11:AB:6398:DT:H2'	11:AB:6399:DT:H71	2.00	0.42
11:AB:6409:DT:H1'	11:AB:6410:DC:H5'	2.02	0.42
11:AB:6418:DT:H2'	11:AB:6419:DT:H71	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6495:DT:H2'	11:AB:6496:DT:H71	2.00	0.42
11:AB:6497:DA:H2'	11:AB:6498:DT:H72	2.00	0.42
11:AB:6568:DG:C8	11:AB:6569:DT:H72	2.55	0.42
11:AB:6679:DT:H2'	11:AB:6680:DT:H71	2.01	0.42
11:AB:6835:DC:H2'	11:AB:6836:DT:H71	1.99	0.42
11:AB:6870:DG:C8	11:AB:6871:DT:H72	2.55	0.42
11:AB:6885:DT:H1'	11:AB:6886:DC:H5'	2.02	0.42
11:AB:6946:DT:H2'	11:AB:6947:DT:H71	2.00	0.42
11:AB:6993:DT:H2'	11:AB:6994:DT:H71	2.01	0.42
11:AB:7116:DT:H1'	11:AB:7117:DC:H5'	2.02	0.42
11:AB:7133:DT:H2'	11:AB:7134:DT:H71	2.01	0.42
12:AC:13:DT:H2'	12:AC:14:DT:H71	2.00	0.42
14:B1:21:DG:H2''	14:B1:22:DC:OP2	2.19	0.42
15:B2:14:DC:OP1	30:C6:7:DG:H2''	2.19	0.42
18:B5:21:DT:H2'	156:O2:22:DT:H71	2.00	0.42
22:B9:2:DT:H2'	22:B9:3:DT:H71	2.00	0.42
26:C1:22:DA:H2'	26:C1:23:DT:H72	2.00	0.42
29:C5:40:DG:C8	29:C5:41:DT:H72	2.55	0.42
31:C7:7:DT:H2'	31:C7:8:DT:H71	2.00	0.42
32:C8:44:DC:H2'	32:C8:45:DT:H71	1.99	0.42
33:C9:18:DT:H1'	33:C9:19:DC:H5'	2.02	0.42
44:D9:27:DG:H2''	44:D9:28:DC:OP2	2.19	0.42
47:DD:6:DG:C8	47:DD:7:DT:H72	2.55	0.42
54:E8:8:DA:H2'	54:E8:9:DT:H72	2.00	0.42
54:E8:24:DT:H2'	54:E8:25:DT:H71	2.01	0.42
55:E9:36:DT:H2'	55:E9:37:DT:H71	2.01	0.42
55:E9:45:DG:H1'	70:G1:1:DT:H5'	2.00	0.42
66:F9:17:DT:H2'	66:F9:18:DT:H71	2.00	0.42
69:FD:29:DC:H5'	161:O8:25:DT:H1'	2.02	0.42
72:G3:1:DT:H1'	72:G3:2:DC:H5'	2.02	0.42
72:G3:11:DG:H2'	72:G3:12:DT:H71	2.02	0.42
82:H2:36:DG:H1'	82:H2:37:DT:H5'	2.00	0.42
83:H3:14:DT:H1'	83:H3:15:DC:H5'	2.02	0.42
88:H9:16:DG:H2''	88:H9:17:DC:OP2	2.19	0.42
95:I5:42:DG:H2''	187:R5:1:DC:OP1	2.19	0.42
101:IC:5:DG:H2''	101:IC:6:DC:OP2	2.19	0.42
108:J7:55:DG:H2''	108:J7:56:DC:OP2	2.19	0.42
117:K5:15:DT:H2'	117:K5:16:DT:H71	2.00	0.42
119:K7:19:DT:H71	230:W3:14:DT:H2'	2.00	0.42
121:K9:17:DT:H2'	121:K9:18:DT:H71	2.00	0.42
122:KA:48:DA:H2'	122:KA:49:DT:H72	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
126:L2:22:DT:H2'	126:L2:23:DT:H71	2.01	0.42
139:M6:4:DG:H2''	139:M6:5:DC:OP2	2.19	0.42
139:M6:21:DG:H2''	139:M6:22:DC:OP2	2.19	0.42
143:MA:34:DG:C8	190:R9:19:DT:H72	2.55	0.42
144:MC:21:DT:H2'	144:MC:22:DT:H71	2.00	0.42
147:N3:13:DC:H2'	147:N3:14:DT:H71	1.98	0.42
150:N7:8:DT:H1'	150:N7:9:DC:H5'	2.02	0.42
152:N9:45:DG:C8	152:N9:46:DT:H72	2.55	0.42
154:NC:30:DG:H2''	154:NC:31:DC:OP2	2.19	0.42
154:NC:35:DG:H1'	154:NC:36:DT:H5'	2.00	0.42
156:O2:22:DT:H1'	156:O2:23:DC:H5'	2.02	0.42
158:O5:47:DT:H1'	158:O5:48:DC:H5'	2.02	0.42
164:OC:18:DT:H2'	164:OC:19:DT:H71	2.01	0.42
165:OD:55:DG:H2''	165:OD:56:DC:OP2	2.19	0.42
166:P2:18:DT:H2'	166:P2:19:DT:H71	2.01	0.42
170:P7:6:DT:H1'	170:P7:7:DC:H5'	2.02	0.42
173:PA:23:DT:H2'	173:PA:24:DT:H71	2.01	0.42
178:Q5:32:DT:H2'	178:Q5:33:DT:H71	2.00	0.42
181:Q9:9:DT:H2'	181:Q9:10:DT:H71	2.01	0.42
184:QD:28:DA:H2'	184:QD:29:DT:H72	2.00	0.42
187:R5:14:DG:C8	223:V5:35:DT:H72	2.55	0.42
198:S8:8:DG:H1'	198:S8:9:DT:H5'	2.00	0.42
202:SD:27:DA:H2'	202:SD:28:DT:H72	2.00	0.42
204:T3:32:DT:H2'	204:T3:33:DT:H71	2.00	0.42
204:T3:44:DG:H1'	204:T3:45:DT:H5'	2.00	0.42
206:T7:9:DG:H2''	206:T7:10:DC:OP2	2.19	0.42
206:T7:23:DG:H2''	206:T7:24:DC:OP2	2.19	0.42
211:TD:33:DT:H2'	211:TD:34:DT:H71	2.01	0.42
214:U5:24:DT:H2'	214:U5:25:DT:H71	2.00	0.42
214:U5:38:DG:H1'	214:U5:39:DT:H5'	2.00	0.42
215:U7:21:DG:C8	215:U7:22:DT:H72	2.55	0.42
220:UD:2:DT:H2'	220:UD:3:DT:H71	2.00	0.42
231:W5:10:DT:H2'	231:W5:11:DT:H71	2.00	0.42
232:W7:19:DG:H2''	232:W7:20:DC:OP2	2.19	0.42
238:X9:26:DG:H1'	238:X9:27:DT:H5'	2.00	0.42
1:A1:56:DT:H2'	1:A1:57:DT:H71	2.00	0.42
5:A5:39:DG:H1'	5:A5:40:DT:H5'	2.00	0.42
7:A7:28:DT:H72	118:K6:13:DG:C8	2.55	0.42
10:AA:27:DG:H1'	216:U8:1:DT:H5'	2.01	0.42
11:AB:177:DT:H2'	11:AB:178:DT:H71	2.00	0.42
11:AB:189:DT:H2'	11:AB:190:DT:H71	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:263:DC:H2'	11:AB:264:DT:H71	1.99	0.42
11:AB:280:DC:C6	11:AB:281:DT:H72	2.54	0.42
11:AB:322:DC:C6	11:AB:323:DT:H72	2.54	0.42
11:AB:343:DC:C6	11:AB:344:DT:H72	2.54	0.42
11:AB:417:DT:H1'	11:AB:418:DC:H5'	2.02	0.42
11:AB:424:DG:C8	11:AB:425:DT:H72	2.55	0.42
11:AB:439:DG:C8	11:AB:440:DT:H72	2.55	0.42
11:AB:445:DG:C8	11:AB:446:DT:H72	2.55	0.42
11:AB:492:DA:H2'	11:AB:493:DT:H72	2.00	0.42
11:AB:649:DC:H2'	11:AB:650:DT:H71	1.99	0.42
11:AB:670:DC:H2'	11:AB:671:DT:H71	1.99	0.42
11:AB:805:DG:C8	11:AB:806:DT:H72	2.55	0.42
11:AB:875:DT:H2'	11:AB:876:DT:H71	2.01	0.42
11:AB:925:DG:C8	11:AB:926:DT:H72	2.55	0.42
11:AB:1122:DT:H1'	11:AB:1123:DC:H5'	2.02	0.42
11:AB:1146:DG:H2''	11:AB:1147:DC:OP2	2.20	0.42
11:AB:1228:DG:C8	11:AB:1229:DT:H72	2.55	0.42
11:AB:1236:DT:H2'	11:AB:1237:DT:H71	2.00	0.42
11:AB:1254:DT:H1'	11:AB:1255:DC:H5'	2.02	0.42
11:AB:1256:DG:C8	11:AB:6301:DT:H72	2.55	0.42
11:AB:1277:DC:C6	11:AB:1278:DT:H72	2.54	0.42
11:AB:1333:DT:H1'	11:AB:1334:DC:H5'	2.01	0.42
11:AB:1376:DG:C8	11:AB:1377:DT:H72	2.55	0.42
11:AB:1503:DT:H2'	11:AB:1504:DT:H71	2.00	0.42
11:AB:1550:DT:H2'	11:AB:1551:DT:H71	2.00	0.42
11:AB:1831:DT:H2'	11:AB:1832:DT:H71	2.00	0.42
11:AB:1898:DG:H2''	11:AB:1899:DC:OP2	2.19	0.42
11:AB:1912:DT:H1'	11:AB:1913:DC:H5'	2.02	0.42
11:AB:1929:DG:C8	11:AB:1930:DT:H72	2.55	0.42
11:AB:1959:DT:H1'	11:AB:1960:DC:H5'	2.02	0.42
11:AB:2058:DT:H1'	11:AB:2059:DC:H5'	2.02	0.42
11:AB:2252:DT:H1'	11:AB:2253:DC:H5'	2.02	0.42
11:AB:2341:DG:C8	11:AB:2342:DT:H72	2.55	0.42
11:AB:2348:DT:H2'	11:AB:2349:DT:H71	2.00	0.42
11:AB:2364:DT:H2'	11:AB:5437:DT:H71	2.00	0.42
11:AB:2405:DT:H2'	11:AB:2406:DT:H71	2.00	0.42
11:AB:2442:DT:H2'	11:AB:5367:DT:H71	2.00	0.42
11:AB:2443:DT:H72	11:AB:5366:DC:C6	2.54	0.42
11:AB:2508:DT:H2'	11:AB:2509:DT:H71	2.00	0.42
11:AB:2647:DC:C6	11:AB:2648:DT:H72	2.54	0.42
11:AB:2755:DA:H2'	11:AB:2756:DT:H72	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2769:DT:H1'	11:AB:2770:DC:H5'	2.02	0.42
11:AB:2836:DT:H1'	11:AB:2837:DC:H5'	2.02	0.42
11:AB:3111:DA:H2'	11:AB:3112:DT:H72	2.00	0.42
11:AB:3139:DT:H1'	11:AB:3140:DC:H5'	2.02	0.42
11:AB:3208:DG:H1'	11:AB:3209:DT:H5'	2.00	0.42
11:AB:3253:DT:H1'	11:AB:3254:DC:H5'	2.01	0.42
11:AB:3353:DT:H2'	11:AB:3354:DT:H71	2.00	0.42
11:AB:3478:DG:C8	11:AB:3479:DT:H72	2.55	0.42
11:AB:3525:DG:C8	11:AB:3526:DT:H72	2.55	0.42
11:AB:3563:DT:H2'	11:AB:3564:DT:H71	2.00	0.42
11:AB:3647:DC:H2'	11:AB:3648:DT:H71	1.99	0.42
11:AB:3661:DG:C8	11:AB:3662:DT:H72	2.55	0.42
11:AB:3662:DT:H1'	11:AB:3663:DC:H5'	2.02	0.42
11:AB:3848:DT:H2'	11:AB:3849:DT:H71	2.00	0.42
11:AB:4097:DG:C8	11:AB:4098:DT:H72	2.55	0.42
11:AB:4150:DT:H2'	11:AB:4151:DT:H71	2.00	0.42
11:AB:4223:DT:H2'	11:AB:4224:DT:H71	2.00	0.42
11:AB:4385:DT:H1'	11:AB:4386:DC:H5'	2.02	0.42
11:AB:4434:DT:H2'	11:AB:4435:DT:H71	2.00	0.42
11:AB:4490:DC:C6	11:AB:4491:DT:H72	2.54	0.42
11:AB:4545:DT:H1'	11:AB:4546:DC:H5'	2.02	0.42
11:AB:4583:DG:H2''	11:AB:4584:DC:OP2	2.19	0.42
11:AB:4661:DG:H1'	11:AB:4662:DT:H5'	2.00	0.42
11:AB:4686:DT:H2'	11:AB:4687:DT:H71	2.00	0.42
11:AB:4695:DT:H1'	11:AB:4696:DC:H5'	2.02	0.42
11:AB:4740:DG:H1'	11:AB:4741:DT:H5'	2.00	0.42
11:AB:4829:DC:C6	11:AB:4830:DT:H72	2.54	0.42
11:AB:4855:DC:H2'	11:AB:4856:DT:H71	1.99	0.42
11:AB:4884:DG:C8	11:AB:4885:DT:H72	2.55	0.42
11:AB:4971:DG:H2''	11:AB:4972:DC:OP2	2.19	0.42
11:AB:5074:DT:H1'	11:AB:5075:DC:H5'	2.02	0.42
11:AB:5076:DT:H2'	11:AB:5077:DT:H71	2.00	0.42
11:AB:5306:DT:H2'	11:AB:5307:DT:H71	2.00	0.42
11:AB:5378:DT:H1'	11:AB:5379:DC:H5'	2.02	0.42
11:AB:5430:DG:H2''	11:AB:5431:DC:OP2	2.19	0.42
11:AB:5466:DT:H2'	11:AB:5467:DT:H71	2.00	0.42
11:AB:5503:DG:H1'	11:AB:5504:DT:H5'	2.00	0.42
11:AB:5581:DT:H2'	11:AB:5582:DT:H71	2.00	0.42
11:AB:5588:DT:H1'	11:AB:5589:DC:H5'	2.02	0.42
11:AB:5632:DT:H1'	11:AB:5633:DC:H5'	2.02	0.42
11:AB:5654:DA:H2'	11:AB:5655:DT:H72	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5720:DG:C8	11:AB:5721:DT:H72	2.55	0.42
11:AB:5744:DA:H2'	11:AB:5745:DT:H72	2.00	0.42
11:AB:5764:DG:H2''	11:AB:5765:DC:OP2	2.19	0.42
11:AB:5788:DT:H1'	11:AB:5789:DC:H5'	2.02	0.42
11:AB:5924:DG:C8	11:AB:5925:DT:H72	2.55	0.42
11:AB:5959:DT:H1'	11:AB:5960:DC:H5'	2.02	0.42
11:AB:6019:DG:C8	11:AB:6020:DT:H72	2.55	0.42
11:AB:6042:DG:H2''	11:AB:6043:DC:OP2	2.19	0.42
11:AB:6050:DG:H2''	11:AB:6051:DC:OP2	2.19	0.42
11:AB:6064:DG:H2''	11:AB:6065:DC:OP2	2.20	0.42
11:AB:6260:DT:H2'	11:AB:6261:DT:H71	2.00	0.42
11:AB:6449:DG:H1'	11:AB:6450:DT:H5'	2.00	0.42
11:AB:6499:DG:C8	11:AB:6500:DT:H72	2.55	0.42
11:AB:6584:DT:H2'	11:AB:6585:DT:H71	2.00	0.42
11:AB:6618:DC:C6	11:AB:6619:DT:H72	2.54	0.42
11:AB:6755:DG:H2''	11:AB:6756:DC:OP2	2.19	0.42
11:AB:6825:DG:H2''	11:AB:6826:DC:OP2	2.19	0.42
11:AB:6851:DT:H1'	11:AB:6852:DC:H5'	2.01	0.42
11:AB:6862:DC:H2'	11:AB:6863:DT:H71	1.99	0.42
11:AB:7012:DG:H2''	11:AB:7013:DC:OP2	2.19	0.42
11:AB:7061:DT:H2'	11:AB:7062:DT:H71	2.00	0.42
11:AB:7204:DT:H1'	11:AB:7205:DC:H5'	2.02	0.42
11:AB:7226:DT:H1'	11:AB:7227:DC:H5'	2.02	0.42
13:AD:41:DT:H2'	13:AD:42:DT:H71	2.00	0.42
14:B1:40:DT:H1'	14:B1:41:DC:H5'	2.01	0.42
22:B9:35:DT:H2'	228:VC:8:DT:H71	2.00	0.42
23:BA:14:DT:H1'	23:BA:15:DC:H5'	2.01	0.42
23:BA:34:DG:C8	23:BA:35:DT:H72	2.55	0.42
24:BC:34:DG:C8	24:BC:35:DT:H72	2.55	0.42
26:C1:24:DT:H1'	26:C1:25:DC:H5'	2.02	0.42
27:C2:6:DG:H2''	27:C2:7:DC:OP2	2.19	0.42
29:C5:1:DT:H2'	29:C5:2:DT:H71	2.00	0.42
30:C6:19:DC:C6	30:C6:20:DT:H72	2.54	0.42
31:C7:17:DC:C6	31:C7:18:DT:H72	2.54	0.42
33:C9:20:DG:H1'	33:C9:21:DT:H5'	2.00	0.42
37:D1:27:DT:H1'	37:D1:28:DC:H5'	2.02	0.42
44:D9:7:DG:C8	44:D9:8:DT:H72	2.55	0.42
51:E5:8:DG:H1'	51:E5:9:DT:H5'	2.00	0.42
53:E7:1:DG:C8	53:E7:2:DT:H72	2.55	0.42
54:E8:32:DT:H2'	54:E8:33:DT:H71	2.00	0.42
55:E9:43:DG:C8	55:E9:44:DT:H72	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:ED:37:DG:C8	58:ED:38:DT:H72	2.55	0.42
59:F1:20:DT:H2'	102:ID:1:DT:H71	2.01	0.42
69:FD:31:DG:H2''	69:FD:32:DC:OP2	2.19	0.42
83:H3:6:DC:H2'	83:H3:7:DT:H71	1.99	0.42
85:H6:21:DG:H2''	85:H6:22:DC:OP2	2.19	0.42
89:HA:6:DT:H2'	89:HA:7:DT:H71	2.00	0.42
95:I5:3:DC:H2'	95:I5:4:DT:H71	1.99	0.42
97:I7:26:DG:C8	97:I7:27:DT:H72	2.55	0.42
98:I8:15:DA:H2'	98:I8:16:DT:H72	2.00	0.42
101:IC:25:DG:H1'	101:IC:26:DT:H5'	2.00	0.42
108:J7:18:DT:H2'	108:J7:19:DT:H71	2.00	0.42
115:K2:13:DT:H2'	115:K2:14:DT:H71	2.00	0.42
122:KA:8:DC:OP1	209:TA:18:DG:H2''	2.19	0.42
124:KD:9:DT:H2'	124:KD:10:DT:H71	2.00	0.42
125:L1:46:DT:H2'	125:L1:47:DT:H71	2.00	0.42
133:LA:11:DC:OP1	182:QA:14:DG:H2''	2.19	0.42
133:LA:19:DG:C8	133:LA:20:DT:H72	2.55	0.42
136:M2:2:DT:H2'	136:M2:3:DT:H71	2.01	0.42
138:M5:23:DG:C8	138:M5:24:DT:H72	2.55	0.42
139:M6:5:DC:C6	139:M6:6:DT:H72	2.54	0.42
140:M7:10:DT:H2'	206:T7:11:DT:H71	2.00	0.42
142:M9:13:DT:H2'	142:M9:14:DT:H71	2.00	0.42
144:MC:16:DT:H2'	144:MC:17:DT:H71	2.00	0.42
145:MD:16:DT:H1'	172:P9:17:DC:H5'	2.02	0.42
152:N9:3:DG:C8	190:R9:5:DT:H72	2.55	0.42
152:N9:12:DG:C8	152:N9:13:DT:H72	2.55	0.42
154:NC:18:DT:H71	189:R8:21:DT:H2'	2.00	0.42
156:O2:11:DG:H2''	156:O2:12:DC:OP2	2.20	0.42
157:O3:19:DG:C8	157:O3:20:DT:H72	2.55	0.42
158:O5:27:DG:H2''	198:S8:18:DC:OP1	2.19	0.42
159:O6:2:DT:H2'	159:O6:3:DT:H71	2.00	0.42
159:O6:14:DT:H2'	159:O6:15:DT:H71	2.01	0.42
165:OD:43:DT:H1'	165:OD:44:DC:H5'	2.02	0.42
168:P5:10:DG:H1'	168:P5:11:DT:H5'	2.00	0.42
171:P8:10:DT:H1'	171:P8:11:DC:H5'	2.02	0.42
177:Q3:5:DG:C8	177:Q3:6:DT:H72	2.55	0.42
180:Q8:22:DC:H2'	180:Q8:23:DT:H71	1.99	0.42
181:Q9:34:DT:H2'	181:Q9:35:DT:H71	2.01	0.42
186:R3:6:DG:H2''	186:R3:7:DC:OP2	2.19	0.42
187:R5:23:DG:H1'	187:R5:24:DT:H5'	2.00	0.42
188:R7:25:DG:C8	188:R7:26:DT:H72	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
188:R7:26:DT:H2'	188:R7:27:DT:H71	2.00	0.42
192:RC:29:DT:H2'	192:RC:30:DT:H71	2.00	0.42
192:RC:30:DT:H2'	192:RC:31:DT:H71	2.00	0.42
194:S2:15:DG:H2''	194:S2:16:DC:OP2	2.20	0.42
196:S5:30:DT:H2'	196:S5:31:DT:H71	2.01	0.42
200:SA:6:DG:H2''	200:SA:7:DC:OP2	2.20	0.42
203:T2:6:DT:H2'	203:T2:7:DT:H71	2.00	0.42
217:U9:15:DT:H1'	217:U9:16:DC:H5'	2.02	0.42
217:U9:26:DT:H2'	217:U9:27:DT:H71	2.00	0.42
218:UA:16:DG:C8	218:UA:17:DT:H72	2.55	0.42
219:UC:8:DG:H1'	219:UC:9:DT:H5'	2.00	0.42
221:V2:18:DT:H1'	221:V2:19:DC:H5'	2.02	0.42
232:W7:25:DC:C6	232:W7:26:DT:H72	2.54	0.42
236:X5:7:DC:C6	236:X5:8:DT:H72	2.54	0.42
237:X7:3:DT:H2'	237:X7:4:DT:H71	2.00	0.42
2:A2:26:DG:H1'	2:A2:27:DT:H5'	2.00	0.42
5:A5:41:DG:C8	5:A5:42:DT:H72	2.55	0.42
11:AB:86:DG:H2''	11:AB:87:DC:OP2	2.20	0.42
11:AB:130:DT:H2'	11:AB:131:DT:H71	2.01	0.42
11:AB:213:DG:H1'	11:AB:214:DT:H5'	2.00	0.42
11:AB:220:DG:C8	11:AB:221:DT:H72	2.55	0.42
11:AB:287:DT:H1'	11:AB:288:DC:H5'	2.02	0.42
11:AB:333:DG:H1'	11:AB:334:DT:H5'	2.00	0.42
11:AB:340:DG:C8	11:AB:341:DT:H72	2.55	0.42
11:AB:412:DG:C8	11:AB:413:DT:H72	2.55	0.42
11:AB:710:DT:H1'	11:AB:711:DC:H5'	2.02	0.42
11:AB:720:DT:H1'	11:AB:721:DC:H5'	2.02	0.42
11:AB:778:DC:H2'	11:AB:779:DT:H71	1.99	0.42
11:AB:826:DC:H2'	11:AB:827:DT:H71	1.99	0.42
11:AB:846:DG:C8	11:AB:847:DT:H72	2.55	0.42
11:AB:868:DG:H1'	11:AB:869:DT:H5'	2.00	0.42
11:AB:910:DG:C8	11:AB:911:DT:H72	2.55	0.42
11:AB:946:DG:C8	11:AB:947:DT:H72	2.55	0.42
11:AB:970:DG:C8	11:AB:971:DT:H72	2.55	0.42
11:AB:981:DT:H72	11:AB:6714:DG:C8	2.55	0.42
11:AB:1071:DT:H1'	11:AB:1072:DC:H5'	2.02	0.42
11:AB:1090:DG:C8	11:AB:1091:DT:H72	2.55	0.42
11:AB:1101:DG:C8	11:AB:6398:DT:H72	2.55	0.42
11:AB:1108:DT:H1'	11:AB:1109:DC:H5'	2.02	0.42
11:AB:1121:DT:H2'	11:AB:1122:DT:H71	2.00	0.42
11:AB:1158:DT:H2'	11:AB:1159:DT:H71	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1276:DT:H1'	11:AB:1277:DC:H5'	2.01	0.42
11:AB:1339:DG:C8	11:AB:1340:DT:H72	2.55	0.42
11:AB:1353:DC:H2'	11:AB:1354:DT:H71	1.99	0.42
11:AB:1443:DG:H1'	11:AB:1444:DT:H5'	2.00	0.42
11:AB:1447:DT:H1'	11:AB:1448:DC:H5'	2.02	0.42
11:AB:1600:DC:C6	11:AB:1601:DT:H72	2.54	0.42
11:AB:1672:DT:H1'	11:AB:1673:DC:H5'	2.02	0.42
11:AB:1825:DG:C8	11:AB:1826:DT:H72	2.55	0.42
11:AB:2097:DT:H2'	11:AB:2098:DT:H71	2.00	0.42
11:AB:2193:DG:C8	11:AB:2194:DT:H72	2.55	0.42
11:AB:2203:DG:C8	11:AB:2204:DT:H72	2.55	0.42
11:AB:2207:DT:H1'	11:AB:2208:DC:H5'	2.02	0.42
11:AB:2213:DG:C8	11:AB:5622:DT:H72	2.55	0.42
11:AB:2426:DT:H2'	11:AB:2427:DT:H71	2.00	0.42
11:AB:2663:DT:H1'	11:AB:2664:DC:H5'	2.02	0.42
11:AB:2829:DG:C8	11:AB:2830:DT:H72	2.55	0.42
11:AB:2926:DG:H1'	11:AB:2927:DT:H5'	2.00	0.42
11:AB:3243:DG:C8	11:AB:3244:DT:H72	2.55	0.42
11:AB:3473:DG:H2''	11:AB:3474:DC:OP2	2.20	0.42
11:AB:3601:DT:H1'	11:AB:3602:DC:H5'	2.01	0.42
11:AB:3623:DT:H2'	11:AB:3624:DT:H71	2.00	0.42
11:AB:3689:DG:C8	11:AB:3690:DT:H72	2.55	0.42
11:AB:3949:DT:H1'	11:AB:3950:DC:H5'	2.02	0.42
11:AB:3974:DT:H1'	11:AB:3975:DC:H5'	2.02	0.42
11:AB:3991:DC:H2'	11:AB:3992:DT:H71	1.99	0.42
11:AB:4029:DG:H2'	11:AB:4030:DT:H71	2.02	0.42
11:AB:4092:DG:C8	11:AB:4093:DT:H72	2.55	0.42
11:AB:4239:DG:C8	11:AB:4240:DT:H72	2.55	0.42
11:AB:4244:DT:H2'	11:AB:4245:DT:H71	2.00	0.42
11:AB:4542:DG:H1'	11:AB:4543:DT:H5'	2.00	0.42
11:AB:4551:DG:C8	11:AB:4552:DT:H72	2.55	0.42
11:AB:4702:DG:H2''	11:AB:4703:DC:OP2	2.19	0.42
11:AB:4720:DT:H2'	11:AB:4721:DT:H71	2.00	0.42
11:AB:4874:DT:H2'	11:AB:4875:DT:H71	2.00	0.42
11:AB:4904:DG:H1'	11:AB:4905:DT:H5'	2.00	0.42
11:AB:5318:DT:H2'	11:AB:5319:DT:H71	2.00	0.42
11:AB:5483:DG:H2''	11:AB:5484:DC:OP2	2.19	0.42
11:AB:5503:DG:C8	11:AB:5504:DT:H72	2.55	0.42
11:AB:5587:DG:C8	11:AB:5588:DT:H72	2.55	0.42
11:AB:5597:DT:H2'	11:AB:5598:DT:H71	2.00	0.42
11:AB:5795:DC:H2'	11:AB:5796:DT:H71	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6137:DG:C8	11:AB:6138:DT:H72	2.55	0.42
11:AB:6142:DG:H1'	11:AB:6143:DT:H5'	2.00	0.42
11:AB:6298:DG:H2''	11:AB:6299:DC:OP2	2.19	0.42
11:AB:6334:DT:H1'	11:AB:6335:DC:H5'	2.01	0.42
11:AB:6358:DT:H1'	11:AB:6359:DC:H5'	2.01	0.42
11:AB:6406:DG:H2''	11:AB:6407:DC:OP2	2.20	0.42
11:AB:6408:DC:H2'	11:AB:6409:DT:H71	1.99	0.42
11:AB:6423:DT:H2'	11:AB:6424:DT:H71	2.00	0.42
11:AB:6494:DG:C8	11:AB:6495:DT:H72	2.55	0.42
11:AB:6573:DG:C8	11:AB:6574:DT:H72	2.55	0.42
11:AB:6577:DG:C8	11:AB:6578:DT:H72	2.55	0.42
11:AB:6658:DT:H1'	11:AB:6659:DC:H5'	2.02	0.42
11:AB:6709:DG:C8	11:AB:6710:DT:H72	2.55	0.42
11:AB:6737:DT:H2'	11:AB:6738:DT:H71	2.00	0.42
11:AB:6792:DC:H2'	11:AB:6793:DT:H71	1.99	0.42
11:AB:6795:DG:C8	11:AB:6796:DT:H72	2.55	0.42
11:AB:6802:DT:H2'	11:AB:6803:DT:H71	2.00	0.42
11:AB:6806:DT:H1'	11:AB:6807:DC:H5'	2.02	0.42
11:AB:6839:DT:H1'	11:AB:6840:DC:H5'	2.02	0.42
11:AB:6883:DG:C8	11:AB:6884:DT:H72	2.55	0.42
11:AB:7078:DG:C8	11:AB:7079:DT:H72	2.55	0.42
11:AB:7094:DT:H2'	11:AB:7095:DT:H71	2.00	0.42
13:AD:11:DG:C8	13:AD:12:DT:H72	2.55	0.42
18:B5:35:DT:H2'	18:B5:36:DT:H71	2.00	0.42
19:B6:8:DT:H72	125:L1:7:DG:C8	2.55	0.42
19:B6:9:DG:C8	19:B6:10:DT:H72	2.55	0.42
24:BC:27:DG:H2''	35:CC:17:DC:OP1	2.19	0.42
29:C5:16:DG:H1'	29:C5:17:DT:H5'	2.00	0.42
32:C8:11:DT:H72	230:W3:42:DG:C8	2.55	0.42
32:C8:28:DG:H2''	32:C8:29:DC:OP2	2.20	0.42
32:C8:45:DT:H1'	114:K1:8:DC:H5'	2.02	0.42
36:CD:19:DG:H1'	36:CD:20:DT:H5'	2.00	0.42
38:D2:14:DG:H2''	38:D2:15:DC:OP2	2.19	0.42
54:E8:26:DG:H2''	54:E8:27:DC:OP2	2.19	0.42
64:F7:20:DG:C8	64:F7:21:DT:H72	2.55	0.42
72:G3:20:DG:C8	72:G3:21:DT:H72	2.55	0.42
74:G6:23:DT:H1'	160:O7:20:DC:H5'	2.02	0.42
77:G9:14:DT:H2'	77:G9:15:DT:H71	2.00	0.42
82:H2:11:DT:H1'	82:H2:12:DC:H5'	2.02	0.42
83:H3:27:DT:H1'	83:H3:28:DC:H5'	2.02	0.42
84:H5:27:DT:H72	214:U5:7:DG:C8	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
93:I2:4:DT:H1'	93:I2:5:DC:H5'	2.01	0.42
93:I2:8:DT:H1'	93:I2:9:DC:H5'	2.02	0.42
104:J2:3:DG:H2''	104:J2:4:DC:OP2	2.19	0.42
108:J7:12:DG:C8	108:J7:13:DT:H72	2.55	0.42
108:J7:43:DT:H72	157:O3:10:DG:C8	2.55	0.42
111:JA:1:DT:H72	209:TA:25:DG:C8	2.55	0.42
117:K5:29:DC:H2'	117:K5:30:DT:H71	1.99	0.42
117:K5:45:DT:H1'	117:K5:46:DC:H5'	2.02	0.42
128:L5:6:DC:H2'	128:L5:7:DT:H71	1.99	0.42
131:L8:18:DC:OP1	146:N2:14:DG:H2''	2.20	0.42
138:M5:29:DT:H1'	138:M5:30:DC:H5'	2.02	0.42
141:M8:27:DC:H2'	141:M8:28:DT:H71	1.99	0.42
145:MD:15:DG:C8	145:MD:16:DT:H72	2.55	0.42
148:N5:7:DG:C8	148:N5:8:DT:H72	2.55	0.42
149:N6:36:DG:C8	149:N6:37:DT:H72	2.55	0.42
156:O2:1:DT:H1'	156:O2:2:DC:H5'	2.02	0.42
159:O6:15:DT:H1'	159:O6:16:DC:H5'	2.02	0.42
163:OA:12:DG:H1'	163:OA:13:DT:H5'	2.00	0.42
168:P5:15:DG:C8	168:P5:16:DT:H72	2.55	0.42
181:Q9:22:DC:H2'	181:Q9:23:DT:H71	1.99	0.42
182:QA:9:DG:H1'	182:QA:10:DT:H5'	2.00	0.42
182:QA:9:DG:C8	182:QA:10:DT:H72	2.55	0.42
189:R8:28:DG:H2''	189:R8:29:DC:OP2	2.19	0.42
190:R9:20:DT:H2'	190:R9:21:DT:H71	2.00	0.42
192:RC:28:DG:C8	192:RC:29:DT:H72	2.55	0.42
198:S8:8:DG:C8	198:S8:9:DT:H72	2.55	0.42
208:T9:20:DT:H1'	208:T9:21:DC:H5'	2.02	0.42
211:TD:10:DG:H2''	211:TD:11:DC:OP2	2.19	0.42
214:U5:30:DG:C8	214:U5:31:DT:H72	2.55	0.42
1:A1:4:DG:C8	1:A1:5:DT:H72	2.55	0.42
5:A5:19:DG:H1'	5:A5:20:DT:H5'	2.00	0.42
8:A8:7:DG:C8	8:A8:8:DT:H72	2.55	0.42
11:AB:51:DT:H1'	11:AB:52:DC:H5'	2.02	0.42
11:AB:183:DG:C8	11:AB:184:DT:H72	2.55	0.42
11:AB:266:DG:C8	11:AB:7179:DT:H72	2.55	0.42
11:AB:330:DG:C8	11:AB:331:DT:H72	2.55	0.42
11:AB:430:DG:H1'	11:AB:431:DT:H5'	2.00	0.42
11:AB:454:DG:C8	11:AB:455:DT:H72	2.55	0.42
11:AB:573:DT:H1'	11:AB:574:DC:H5'	2.02	0.42
11:AB:714:DG:C8	11:AB:715:DT:H72	2.55	0.42
11:AB:731:DG:C8	11:AB:732:DT:H72	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:933:DT:H1'	11:AB:934:DC:H5'	2.02	0.42
11:AB:955:DG:C8	11:AB:956:DT:H72	2.55	0.42
11:AB:960:DT:H1'	11:AB:961:DC:H5'	2.02	0.42
11:AB:1105:DG:H1'	11:AB:1106:DT:H5'	2.00	0.42
11:AB:1114:DG:C8	11:AB:1115:DT:H72	2.55	0.42
11:AB:1265:DT:H1'	11:AB:1266:DC:H5'	2.02	0.42
11:AB:1272:DT:H2'	11:AB:1273:DT:H71	2.01	0.42
11:AB:1342:DT:H1'	11:AB:1343:DC:H5'	2.02	0.42
11:AB:1425:DT:H1'	11:AB:1426:DC:H5'	2.02	0.42
11:AB:1445:DA:H2'	11:AB:1446:DT:H72	2.00	0.42
11:AB:1466:DC:H2'	11:AB:1467:DT:H71	1.99	0.42
11:AB:1489:DG:C8	11:AB:1490:DT:H72	2.55	0.42
11:AB:1634:DG:C8	11:AB:1635:DT:H72	2.55	0.42
11:AB:1660:DG:C8	11:AB:1661:DT:H72	2.55	0.42
11:AB:1685:DG:C8	11:AB:1686:DT:H72	2.55	0.42
11:AB:1773:DG:C8	11:AB:1774:DT:H72	2.55	0.42
11:AB:1815:DG:C8	11:AB:1816:DT:H72	2.55	0.42
11:AB:1910:DG:C8	11:AB:1911:DT:H72	2.55	0.42
11:AB:2196:DG:C8	11:AB:2197:DT:H72	2.55	0.42
11:AB:2206:DG:H1'	11:AB:2207:DT:H5'	2.00	0.42
11:AB:2302:DT:H2'	11:AB:2303:DT:H71	2.01	0.42
11:AB:2316:DT:H1'	11:AB:2317:DC:H5'	2.02	0.42
11:AB:2516:DG:H1'	11:AB:2517:DT:H5'	2.00	0.42
11:AB:2569:DG:C8	11:AB:2570:DT:H72	2.55	0.42
11:AB:2646:DT:H1'	11:AB:2647:DC:H5'	2.01	0.42
11:AB:2679:DG:H1'	11:AB:2680:DT:H5'	2.00	0.42
11:AB:2818:DG:C8	11:AB:2819:DT:H72	2.55	0.42
11:AB:2951:DG:C8	11:AB:2952:DT:H72	2.55	0.42
11:AB:3310:DG:C8	11:AB:3311:DT:H72	2.55	0.42
11:AB:3502:DG:H1'	11:AB:3503:DT:H5'	2.00	0.42
11:AB:3549:DT:H2'	11:AB:3550:DT:H71	2.01	0.42
11:AB:3842:DG:H1'	11:AB:3843:DT:H5'	2.00	0.42
11:AB:4210:DT:H1'	11:AB:4211:DC:H5'	2.02	0.42
11:AB:4228:DG:C8	11:AB:4229:DT:H72	2.55	0.42
11:AB:4301:DT:H1'	11:AB:4302:DC:H5'	2.02	0.42
11:AB:4367:DT:H1'	11:AB:4368:DC:H5'	2.02	0.42
11:AB:4535:DG:C8	11:AB:4536:DT:H72	2.55	0.42
11:AB:4734:DT:H1'	11:AB:4735:DC:H5'	2.02	0.42
11:AB:4811:DT:H1'	11:AB:4812:DC:H5'	2.02	0.42
11:AB:4869:DT:H1'	11:AB:4870:DC:H5'	2.02	0.42
11:AB:4913:DC:H2'	11:AB:4914:DT:H71	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4947:DG:H2''	11:AB:4948:DC:OP2	2.20	0.42
11:AB:4983:DC:H2'	11:AB:4984:DT:H71	1.99	0.42
11:AB:5094:DT:H1'	11:AB:5095:DC:H5'	2.02	0.42
11:AB:5150:DG:C8	11:AB:5151:DT:H72	2.55	0.42
11:AB:5491:DC:H2'	11:AB:5492:DT:H71	1.99	0.42
11:AB:5501:DT:H2'	11:AB:5502:DT:H71	2.01	0.42
11:AB:5698:DT:H1'	11:AB:5699:DC:H5'	2.02	0.42
11:AB:5713:DT:H2'	11:AB:5714:DT:H71	2.00	0.42
11:AB:5772:DG:H2''	11:AB:5773:DC:OP2	2.20	0.42
11:AB:6439:DG:C8	11:AB:6440:DT:H72	2.55	0.42
11:AB:6449:DG:C8	11:AB:6450:DT:H72	2.55	0.42
11:AB:6460:DG:C8	11:AB:6461:DT:H72	2.55	0.42
11:AB:6518:DG:C8	11:AB:6519:DT:H72	2.55	0.42
11:AB:6521:DG:C8	11:AB:6522:DT:H72	2.55	0.42
11:AB:6604:DT:H1'	11:AB:6605:DC:H5'	2.02	0.42
11:AB:6611:DG:C8	11:AB:6612:DT:H72	2.55	0.42
11:AB:6817:DG:C8	11:AB:6818:DT:H72	2.55	0.42
11:AB:6857:DG:C8	11:AB:6858:DT:H72	2.55	0.42
11:AB:6902:DT:H1'	11:AB:6903:DC:H5'	2.02	0.42
11:AB:6912:DG:C8	11:AB:6913:DT:H72	2.55	0.42
11:AB:6918:DG:H2''	11:AB:6919:DC:OP2	2.19	0.42
11:AB:6960:DT:H1'	11:AB:6961:DC:H5'	2.02	0.42
11:AB:6977:DT:H1'	11:AB:6978:DC:H5'	2.02	0.42
11:AB:7103:DT:H2'	11:AB:7104:DT:H71	2.01	0.42
11:AB:7114:DC:H2'	11:AB:7115:DT:H71	1.99	0.42
11:AB:7137:DT:H1'	11:AB:7138:DC:H5'	2.02	0.42
16:B3:18:DG:C8	16:B3:19:DT:H72	2.55	0.42
18:B5:1:DT:H1'	18:B5:2:DC:H5'	2.02	0.42
20:B7:21:DG:C8	20:B7:22:DT:H72	2.55	0.42
33:C9:2:DG:H1'	33:C9:3:DT:H5'	2.00	0.42
35:CC:18:DG:H1'	35:CC:19:DT:H5'	2.00	0.42
36:CD:22:DT:H1'	36:CD:23:DC:H5'	2.02	0.42
39:D3:5:DT:H1'	39:D3:6:DC:H5'	2.02	0.42
41:D6:6:DC:H2'	41:D6:7:DT:H71	1.99	0.42
41:D6:33:DG:C8	41:D6:34:DT:H72	2.55	0.42
42:D7:9:DG:C8	42:D7:10:DT:H72	2.55	0.42
43:D8:9:DG:H2''	43:D8:10:DC:OP2	2.19	0.42
53:E7:20:DG:C8	53:E7:21:DT:H72	2.55	0.42
54:E8:17:DT:H1'	54:E8:18:DC:H5'	2.02	0.42
56:EA:15:DG:C8	56:EA:16:DT:H72	2.55	0.42
57:EC:12:DG:H1'	57:EC:13:DT:H5'	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:ED:10:DT:H1'	58:ED:11:DC:H5'	2.02	0.42
64:F7:20:DG:H1'	64:F7:21:DT:H5'	2.00	0.42
69:FD:9:DG:C8	69:FD:10:DT:H72	2.55	0.42
72:G3:26:DG:H1'	72:G3:27:DT:H5'	2.00	0.42
76:G8:1:DG:C8	76:G8:2:DT:H72	2.55	0.42
82:H2:7:DT:H1'	82:H2:8:DC:H5'	2.02	0.42
84:H5:3:DG:C8	84:H5:4:DT:H72	2.55	0.42
85:H6:17:DG:H2''	85:H6:18:DC:OP2	2.19	0.42
87:H8:15:DG:H1'	87:H8:16:DT:H5'	2.00	0.42
94:I3:40:DG:C8	94:I3:41:DT:H72	2.55	0.42
98:I8:39:DG:C8	98:I8:40:DT:H72	2.55	0.42
99:I9:14:DG:C8	99:I9:15:DT:H72	2.55	0.42
101:IC:16:DT:H1'	101:IC:17:DC:H5'	2.01	0.42
105:J3:20:DT:H2'	130:L7:50:DT:H71	2.01	0.42
110:J9:15:DG:H2''	110:J9:16:DC:OP2	2.19	0.42
111:JA:10:DG:C8	111:JA:11:DT:H72	2.55	0.42
113:JD:33:DG:C8	113:JD:34:DT:H72	2.55	0.42
118:K6:14:DT:H1'	118:K6:15:DC:H5'	2.02	0.42
120:K8:6:DG:H2''	120:K8:7:DC:OP2	2.19	0.42
121:K9:6:DT:H1'	121:K9:7:DC:H5'	2.02	0.42
121:K9:25:DG:C8	121:K9:26:DT:H72	2.55	0.42
122:KA:3:DG:C8	122:KA:4:DT:H72	2.55	0.42
144:MC:10:DG:C8	144:MC:11:DT:H72	2.55	0.42
145:MD:46:DG:C8	145:MD:47:DT:H72	2.55	0.42
148:N5:12:DG:C8	148:N5:13:DT:H72	2.55	0.42
149:N6:10:DT:H1'	149:N6:11:DC:H5'	2.02	0.42
149:N6:21:DG:C8	149:N6:22:DT:H72	2.55	0.42
158:O5:14:DC:H5'	221:V2:4:DT:H1'	2.02	0.42
161:O8:6:DG:C8	161:O8:7:DT:H72	2.55	0.42
161:O8:17:DC:H2'	161:O8:18:DT:H71	1.99	0.42
161:O8:23:DG:C8	161:O8:24:DT:H72	2.55	0.42
161:O8:36:DG:C8	161:O8:37:DT:H72	2.55	0.42
161:O8:57:DG:C8	161:O8:58:DT:H72	2.55	0.42
166:P2:19:DT:H1'	166:P2:20:DC:H5'	2.01	0.42
172:P9:15:DG:C8	172:P9:16:DT:H72	2.55	0.42
172:P9:24:DT:H1'	172:P9:25:DC:H5'	2.02	0.42
187:R5:15:DT:H1'	187:R5:16:DC:H5'	2.02	0.42
190:R9:23:DG:H1'	190:R9:24:DT:H5'	2.00	0.42
190:R9:28:DG:H2''	190:R9:29:DC:OP2	2.19	0.42
203:T2:14:DG:H1'	203:T2:15:DT:H5'	2.00	0.42
203:T2:22:DG:C8	203:T2:23:DT:H72	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
204:T3:39:DG:C8	204:T3:40:DT:H72	2.55	0.42
211:TD:29:DT:H1'	211:TD:30:DC:H5'	2.02	0.42
213:U3:16:DG:C8	213:U3:17:DT:H72	2.55	0.42
216:U8:5:DG:C8	216:U8:6:DT:H72	2.55	0.42
228:VC:9:DG:C8	228:VC:10:DT:H72	2.55	0.42
232:W7:12:DG:C8	232:W7:13:DT:H72	2.55	0.42
236:X5:5:DG:H2''	236:X5:6:DC:OP2	2.19	0.42
2:A2:14:DC:H2'	2:A2:15:DT:H71	1.99	0.42
3:A3:1:DT:H1'	3:A3:2:DC:H5'	2.02	0.42
5:A5:15:DC:H5'	37:D1:35:DT:H1'	2.02	0.42
7:A7:35:DG:C8	7:A7:36:DT:H72	2.55	0.42
11:AB:29:DG:C8	11:AB:30:DT:H72	2.55	0.42
11:AB:32:DG:C8	11:AB:33:DT:H72	2.55	0.42
11:AB:38:DG:C8	11:AB:39:DT:H72	2.55	0.42
11:AB:48:DC:H2'	11:AB:49:DT:H71	1.99	0.42
11:AB:183:DG:H1'	11:AB:184:DT:H5'	2.00	0.42
11:AB:294:DG:H2''	11:AB:295:DC:OP2	2.19	0.42
11:AB:333:DG:C8	11:AB:334:DT:H72	2.55	0.42
11:AB:336:DG:C8	11:AB:337:DT:H72	2.55	0.42
11:AB:338:DT:H2'	11:AB:339:DT:H71	2.01	0.42
11:AB:359:DG:C8	11:AB:360:DT:H72	2.55	0.42
11:AB:593:DT:H1'	11:AB:594:DC:H5'	2.02	0.42
11:AB:666:DG:C8	11:AB:667:DT:H72	2.55	0.42
11:AB:687:DG:C8	11:AB:688:DT:H72	2.55	0.42
11:AB:801:DG:C8	11:AB:802:DT:H72	2.55	0.42
11:AB:868:DG:C8	11:AB:869:DT:H72	2.55	0.42
11:AB:877:DC:H2'	11:AB:878:DT:H71	1.99	0.42
11:AB:919:DC:H2'	11:AB:920:DT:H71	1.99	0.42
11:AB:1092:DG:H2''	11:AB:1093:DC:OP2	2.20	0.42
11:AB:1099:DT:H1'	11:AB:1100:DC:H5'	2.02	0.42
11:AB:1144:DG:C8	11:AB:1145:DT:H72	2.55	0.42
11:AB:1169:DT:H71	11:AB:6338:DC:H2'	1.99	0.42
11:AB:1192:DG:C8	11:AB:1193:DT:H72	2.55	0.42
11:AB:1198:DG:C8	11:AB:1199:DT:H72	2.55	0.42
11:AB:1206:DT:H1'	11:AB:1207:DC:H5'	2.02	0.42
11:AB:1264:DG:C8	11:AB:1265:DT:H72	2.55	0.42
11:AB:1288:DG:C8	11:AB:1289:DT:H72	2.55	0.42
11:AB:1329:DT:H2'	11:AB:1330:DT:H71	2.00	0.42
11:AB:1341:DG:C8	11:AB:1342:DT:H72	2.55	0.42
11:AB:1395:DG:H2''	11:AB:1396:DC:OP2	2.20	0.42
11:AB:1429:DG:H2''	11:AB:1430:DC:OP2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1450:DG:C8	11:AB:1451:DT:H72	2.55	0.42
11:AB:1467:DT:H1'	11:AB:1468:DC:H5'	2.02	0.42
11:AB:1593:DG:C8	11:AB:1594:DT:H72	2.55	0.42
11:AB:1599:DT:H1'	11:AB:1600:DC:H5'	2.02	0.42
11:AB:1645:DT:H1'	11:AB:1646:DC:H5'	2.02	0.42
11:AB:1903:DT:H1'	11:AB:1904:DC:H5'	2.02	0.42
11:AB:2416:DG:C8	11:AB:2417:DT:H72	2.55	0.42
11:AB:2445:DT:H1'	11:AB:2446:DC:H5'	2.02	0.42
11:AB:2456:DG:C8	11:AB:2457:DT:H72	2.55	0.42
11:AB:2534:DT:H1'	11:AB:2535:DC:H5'	2.02	0.42
11:AB:2604:DG:C8	11:AB:2605:DT:H72	2.55	0.42
11:AB:2607:DG:C8	11:AB:2608:DT:H72	2.55	0.42
11:AB:2610:DT:H1'	11:AB:2611:DC:H5'	2.02	0.42
11:AB:2635:DT:H1'	11:AB:2636:DC:H5'	2.02	0.42
11:AB:2739:DT:H1'	11:AB:2740:DC:H5'	2.01	0.42
11:AB:2799:DG:H1'	11:AB:2800:DT:H5'	2.00	0.42
11:AB:2806:DG:H1'	11:AB:2807:DT:H5'	2.00	0.42
11:AB:2822:DT:H1'	11:AB:2823:DC:H5'	2.02	0.42
11:AB:2842:DT:H1'	11:AB:2843:DC:H5'	2.02	0.42
11:AB:2874:DT:H72	11:AB:5061:DG:C8	2.55	0.42
11:AB:2880:DT:H1'	11:AB:2881:DC:H5'	2.01	0.42
11:AB:2893:DG:C8	11:AB:2894:DT:H72	2.55	0.42
11:AB:3112:DT:H1'	11:AB:3113:DC:H5'	2.02	0.42
11:AB:3155:DG:C8	11:AB:3156:DT:H72	2.55	0.42
11:AB:3163:DG:C8	11:AB:3164:DT:H72	2.55	0.42
11:AB:3369:DG:H2''	11:AB:3370:DC:OP2	2.19	0.42
11:AB:3419:DG:C8	11:AB:3420:DT:H72	2.55	0.42
11:AB:3458:DG:C8	11:AB:3459:DT:H72	2.55	0.42
11:AB:3521:DG:C8	11:AB:3522:DT:H72	2.55	0.42
11:AB:3547:DG:C8	11:AB:3548:DT:H72	2.55	0.42
11:AB:3748:DT:H1'	11:AB:3749:DC:H5'	2.02	0.42
11:AB:3824:DG:C8	11:AB:3825:DT:H72	2.55	0.42
11:AB:3858:DT:H1'	11:AB:3859:DC:H5'	2.02	0.42
11:AB:3871:DG:H2''	11:AB:3872:DC:OP2	2.19	0.42
11:AB:3956:DT:H72	11:AB:4375:DG:C8	2.55	0.42
11:AB:4036:DG:C8	11:AB:4037:DT:H72	2.55	0.42
11:AB:4061:DG:H2''	11:AB:4062:DC:OP2	2.20	0.42
11:AB:4079:DT:H2'	11:AB:4080:DT:H71	2.01	0.42
11:AB:4156:DT:H2'	11:AB:4157:DT:H71	2.01	0.42
11:AB:4166:DT:H1'	11:AB:4167:DC:H5'	2.02	0.42
11:AB:4182:DT:H1'	11:AB:4183:DC:H5'	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4290:DG:C8	11:AB:4291:DT:H72	2.55	0.42
11:AB:4344:DG:C8	11:AB:4345:DT:H72	2.55	0.42
11:AB:4408:DT:H2'	11:AB:4409:DT:H71	2.01	0.42
11:AB:4457:DT:H2'	11:AB:4458:DT:H71	2.01	0.42
11:AB:4482:DG:C8	11:AB:4483:DT:H72	2.55	0.42
11:AB:4529:DT:H1'	11:AB:4530:DC:H5'	2.02	0.42
11:AB:4542:DG:C8	11:AB:4543:DT:H72	2.55	0.42
11:AB:4593:DT:H1'	11:AB:4594:DC:H5'	2.02	0.42
11:AB:4604:DG:C8	11:AB:4605:DT:H72	2.55	0.42
11:AB:4638:DG:C8	11:AB:4639:DT:H72	2.55	0.42
11:AB:4685:DG:C8	11:AB:4686:DT:H72	2.55	0.42
11:AB:4711:DG:H2''	11:AB:4712:DC:OP2	2.19	0.42
11:AB:4753:DG:C8	11:AB:4754:DT:H72	2.55	0.42
11:AB:4871:DG:C8	11:AB:4872:DT:H72	2.55	0.42
11:AB:4904:DG:C8	11:AB:4905:DT:H72	2.55	0.42
11:AB:4933:DT:H1'	11:AB:4934:DC:H5'	2.02	0.42
11:AB:4993:DG:C8	11:AB:4994:DT:H72	2.55	0.42
11:AB:5017:DG:H2''	11:AB:5018:DC:OP2	2.20	0.42
11:AB:5045:DG:H2''	11:AB:5046:DC:OP2	2.20	0.42
11:AB:5183:DG:C8	11:AB:5184:DT:H72	2.55	0.42
11:AB:5228:DG:C8	11:AB:5229:DT:H72	2.55	0.42
11:AB:5464:DG:C8	11:AB:5465:DT:H72	2.55	0.42
11:AB:5601:DT:H1'	11:AB:5602:DC:H5'	2.02	0.42
11:AB:5758:DT:H1'	11:AB:5759:DC:H5'	2.02	0.42
11:AB:5834:DT:H2'	11:AB:5835:DT:H71	2.01	0.42
11:AB:5965:DG:C8	11:AB:5966:DT:H72	2.55	0.42
11:AB:6001:DG:C8	11:AB:6002:DT:H72	2.55	0.42
11:AB:6100:DG:H1'	11:AB:6101:DT:H5'	2.00	0.42
11:AB:6142:DG:C8	11:AB:6143:DT:H72	2.55	0.42
11:AB:6144:DT:H1'	11:AB:6145:DC:H5'	2.02	0.42
11:AB:6245:DG:C8	11:AB:6246:DT:H72	2.55	0.42
11:AB:6431:DG:C8	11:AB:6432:DT:H72	2.55	0.42
11:AB:6434:DG:C8	11:AB:6435:DT:H72	2.55	0.42
11:AB:6477:DT:H1'	11:AB:6478:DC:H5'	2.02	0.42
11:AB:6555:DC:H2'	11:AB:6556:DT:H71	1.99	0.42
11:AB:6557:DG:C8	11:AB:6558:DT:H72	2.55	0.42
11:AB:6600:DT:H2'	11:AB:6601:DT:H71	2.00	0.42
11:AB:6653:DG:C8	11:AB:6654:DT:H72	2.55	0.42
11:AB:6878:DG:C8	11:AB:6879:DT:H72	2.55	0.42
11:AB:6937:DG:C8	11:AB:6938:DT:H72	2.55	0.42
11:AB:6982:DG:C8	11:AB:6983:DT:H72	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6985:DG:C8	11:AB:6986:DT:H72	2.55	0.42
11:AB:7030:DG:C8	11:AB:7031:DT:H72	2.55	0.42
11:AB:7038:DG:C8	11:AB:7039:DT:H72	2.55	0.42
11:AB:7059:DG:C8	11:AB:7060:DT:H72	2.55	0.42
11:AB:7066:DG:C8	11:AB:7067:DT:H72	2.55	0.42
12:AC:18:DG:H2''	12:AC:19:DC:OP2	2.19	0.42
14:B1:4:DT:H1'	14:B1:5:DC:H5'	2.02	0.42
17:B4:18:DG:C8	17:B4:19:DT:H72	2.55	0.42
23:BA:5:DG:C8	23:BA:6:DT:H72	2.55	0.42
29:C5:1:DT:H72	231:W5:35:DG:C8	2.55	0.42
30:C6:3:DG:C8	30:C6:4:DT:H72	2.55	0.42
30:C6:13:DT:H1'	30:C6:14:DC:H5'	2.02	0.42
30:C6:15:DT:H71	43:D8:42:DT:H2'	2.01	0.42
31:C7:13:DG:C8	31:C7:14:DT:H72	2.55	0.42
32:C8:47:DG:H2''	32:C8:48:DC:OP2	2.19	0.42
33:C9:20:DG:C8	33:C9:21:DT:H72	2.55	0.42
34:CA:1:DT:H71	228:VC:21:DT:H2'	2.01	0.42
34:CA:13:DG:C8	34:CA:14:DT:H72	2.55	0.42
34:CA:14:DT:H1'	34:CA:15:DC:H5'	2.02	0.42
35:CC:13:DT:H2'	35:CC:14:DT:H71	2.00	0.42
35:CC:28:DG:C8	35:CC:29:DT:H72	2.55	0.42
39:D3:12:DT:H71	202:SD:13:DT:H2'	2.01	0.42
49:E2:24:DC:OP1	222:V3:25:DG:H2''	2.20	0.42
50:E3:7:DT:H2'	50:E3:8:DT:H71	2.01	0.42
50:E3:15:DC:H5'	181:Q9:32:DT:H1'	2.02	0.42
51:E5:16:DG:C8	51:E5:17:DT:H72	2.55	0.42
52:E6:25:DT:H1'	52:E6:26:DC:H5'	2.02	0.42
54:E8:37:DG:C8	79:GC:1:DT:H72	2.55	0.42
55:E9:45:DG:C8	70:G1:1:DT:H72	2.55	0.42
57:EC:1:DT:H1'	57:EC:2:DC:H5'	2.02	0.42
58:ED:38:DT:H1'	58:ED:39:DC:H5'	2.02	0.42
62:F5:21:DT:H2'	62:F5:22:DT:H71	2.00	0.42
62:F5:38:DT:H1'	64:F7:12:DC:H5'	2.02	0.42
72:G3:26:DG:C8	72:G3:27:DT:H72	2.55	0.42
73:G5:16:DG:C8	73:G5:17:DT:H72	2.55	0.42
73:G5:22:DG:C8	73:G5:23:DT:H72	2.55	0.42
76:G8:15:DG:C8	76:G8:16:DT:H72	2.55	0.42
83:H3:26:DG:H1'	83:H3:27:DT:H5'	2.00	0.42
84:H5:7:DG:C8	84:H5:8:DT:H72	2.55	0.42
84:H5:37:DT:H1'	84:H5:38:DC:H5'	2.02	0.42
86:H7:24:DG:C8	140:M7:1:DT:H72	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
89:HA:31:DT:H1'	89:HA:32:DC:H5'	2.02	0.42
91:HD:10:DT:H1'	91:HD:11:DC:H5'	2.02	0.42
96:I6:5:DG:C8	96:I6:6:DT:H72	2.55	0.42
102:ID:8:DG:C8	102:ID:9:DT:H72	2.55	0.42
106:J5:30:DG:H2''	106:J5:31:DC:OP2	2.19	0.42
113:JD:30:DG:H2''	113:JD:31:DC:OP2	2.19	0.42
115:K2:11:DG:C8	115:K2:12:DT:H72	2.55	0.42
116:K3:13:DT:H1'	204:T3:22:DC:H5'	2.02	0.42
122:KA:49:DT:H2'	122:KA:50:DT:H71	2.01	0.42
123:KC:12:DG:C8	123:KC:13:DT:H72	2.55	0.42
126:L2:28:DC:OP1	224:V7:16:DG:H2''	2.20	0.42
128:L5:13:DT:H1'	128:L5:14:DC:H5'	2.02	0.42
129:L6:6:DG:C8	129:L6:7:DT:H72	2.55	0.42
130:L7:30:DG:C8	130:L7:31:DT:H72	2.55	0.42
132:L9:18:DT:H2'	132:L9:19:DT:H71	2.00	0.42
137:M3:26:DG:H1'	137:M3:27:DT:H5'	2.00	0.42
140:M7:13:DG:H2''	140:M7:14:DC:OP2	2.20	0.42
142:M9:21:DG:C8	142:M9:22:DT:H72	2.55	0.42
142:M9:23:DT:H2'	218:UA:1:DT:H71	2.01	0.42
147:N3:33:DT:H1'	147:N3:34:DC:H5'	2.01	0.42
148:N5:12:DG:H1'	148:N5:13:DT:H5'	2.00	0.42
152:N9:41:DG:C8	152:N9:42:DT:H72	2.55	0.42
154:NC:35:DG:C8	154:NC:36:DT:H72	2.55	0.42
158:O5:7:DG:C8	158:O5:8:DT:H72	2.55	0.42
166:P2:13:DG:C8	166:P2:14:DT:H72	2.55	0.42
166:P2:22:DG:C8	166:P2:23:DT:H72	2.55	0.42
168:P5:10:DG:C8	168:P5:11:DT:H72	2.55	0.42
177:Q3:10:DT:H2'	177:Q3:11:DT:H71	2.00	0.42
179:Q7:11:DT:H1'	179:Q7:12:DC:H5'	2.02	0.42
180:Q8:26:DG:C8	180:Q8:27:DT:H72	2.55	0.42
187:R5:23:DG:C8	187:R5:24:DT:H72	2.55	0.42
196:S5:4:DG:C8	196:S5:5:DT:H72	2.55	0.42
200:SA:24:DT:H1'	200:SA:25:DC:H5'	2.02	0.42
204:T3:44:DG:C8	204:T3:45:DT:H72	2.55	0.42
215:U7:6:DT:H1'	215:U7:7:DC:H5'	2.02	0.42
219:UC:8:DG:C8	219:UC:9:DT:H72	2.55	0.42
221:V2:15:DG:C8	221:V2:16:DT:H72	2.55	0.42
223:V5:3:DG:C8	223:V5:4:DT:H72	2.55	0.42
227:VA:12:DG:C8	227:VA:13:DT:H72	2.55	0.42
231:W5:8:DG:C8	231:W5:9:DT:H72	2.55	0.42
233:W8:7:DT:H1'	233:W8:8:DC:H5'	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
234:W9:8:DG:C8	234:W9:9:DT:H72	2.55	0.42
238:X9:26:DG:C8	238:X9:27:DT:H72	2.55	0.42
238:X9:32:DT:H1'	238:X9:33:DC:H5'	2.02	0.42
2:A2:3:DG:H2''	2:A2:4:DC:OP2	2.20	0.41
3:A3:10:DG:C8	3:A3:11:DT:H72	2.55	0.41
4:A4:16:DT:H1'	4:A4:17:DC:H5'	2.02	0.41
5:A5:25:DG:C8	5:A5:26:DT:H72	2.55	0.41
5:A5:39:DG:C8	5:A5:40:DT:H72	2.55	0.41
8:A8:24:DG:C8	8:A8:25:DT:H72	2.55	0.41
11:AB:14:DG:H2''	11:AB:15:DC:OP2	2.19	0.41
11:AB:121:DT:H2'	11:AB:122:DT:H71	2.01	0.41
11:AB:142:DT:H2'	11:AB:143:DT:H71	2.01	0.41
11:AB:184:DT:H2'	11:AB:185:DT:H71	2.00	0.41
11:AB:223:DG:C8	11:AB:224:DT:H72	2.55	0.41
11:AB:314:DG:C8	11:AB:315:DT:H72	2.55	0.41
11:AB:367:DG:C8	11:AB:368:DT:H72	2.55	0.41
11:AB:367:DG:H1'	11:AB:368:DT:H5'	2.00	0.41
11:AB:409:DG:C8	11:AB:410:DT:H72	2.55	0.41
11:AB:430:DG:C8	11:AB:431:DT:H72	2.55	0.41
11:AB:432:DT:H1'	11:AB:433:DC:H5'	2.02	0.41
11:AB:651:DG:C8	11:AB:652:DT:H72	2.55	0.41
11:AB:812:DT:H1'	11:AB:813:DC:H5'	2.02	0.41
11:AB:824:DG:C8	11:AB:825:DT:H72	2.55	0.41
11:AB:918:DT:H1'	11:AB:919:DC:H5'	2.01	0.41
11:AB:952:DG:C8	11:AB:953:DT:H72	2.55	0.41
11:AB:975:DT:H2'	11:AB:976:DT:H71	2.00	0.41
11:AB:1210:DC:H2'	11:AB:1211:DT:H71	1.99	0.41
11:AB:1267:DG:H2''	11:AB:1268:DC:OP2	2.19	0.41
11:AB:1362:DG:C8	11:AB:1363:DT:H72	2.55	0.41
11:AB:1363:DT:H2'	11:AB:1364:DT:H71	2.01	0.41
11:AB:1433:DG:C8	11:AB:1434:DT:H72	2.55	0.41
11:AB:1476:DT:H2'	11:AB:1477:DT:H71	2.01	0.41
11:AB:1494:DG:H2''	11:AB:1495:DC:OP2	2.20	0.41
11:AB:1552:DG:C8	11:AB:1553:DT:H72	2.55	0.41
11:AB:1611:DG:H2''	11:AB:1612:DC:OP2	2.20	0.41
11:AB:1641:DG:C8	11:AB:1642:DT:H72	2.55	0.41
11:AB:1677:DG:C8	11:AB:1678:DT:H72	2.55	0.41
11:AB:1778:DT:H2'	11:AB:1779:DT:H71	2.01	0.41
11:AB:1782:DG:C8	11:AB:1783:DT:H72	2.55	0.41
11:AB:1821:DG:C8	11:AB:1822:DT:H72	2.55	0.41
11:AB:2022:DG:C8	11:AB:2023:DT:H72	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2263:DG:H2''	11:AB:2264:DC:OP2	2.20	0.41
11:AB:2301:DG:C8	11:AB:2302:DT:H72	2.55	0.41
11:AB:2401:DG:C8	11:AB:2402:DT:H72	2.55	0.41
11:AB:2479:DG:C8	11:AB:2480:DT:H72	2.55	0.41
11:AB:2516:DG:C8	11:AB:2517:DT:H72	2.55	0.41
11:AB:2533:DG:C8	11:AB:2534:DT:H72	2.55	0.41
11:AB:2658:DC:H2'	11:AB:2659:DT:H71	1.99	0.41
11:AB:2674:DG:H2''	11:AB:2675:DC:OP2	2.20	0.41
11:AB:2679:DG:C8	11:AB:2680:DT:H72	2.55	0.41
11:AB:2729:DG:H2''	11:AB:2730:DC:OP2	2.19	0.41
11:AB:2819:DT:H2'	11:AB:2820:DT:H71	2.00	0.41
11:AB:2861:DT:H2'	11:AB:2862:DT:H71	2.00	0.41
11:AB:3013:DG:C8	11:AB:3014:DT:H72	2.55	0.41
11:AB:3020:DG:C8	11:AB:3021:DT:H72	2.55	0.41
11:AB:3164:DT:H2'	11:AB:3165:DT:H71	2.00	0.41
11:AB:3241:DT:H2'	11:AB:3242:DT:H71	2.01	0.41
11:AB:3414:DG:H2''	11:AB:3415:DC:OP2	2.19	0.41
11:AB:3522:DT:H2'	11:AB:3523:DT:H71	2.00	0.41
11:AB:3649:DG:C8	11:AB:3650:DT:H72	2.55	0.41
11:AB:3651:DT:H72	11:AB:4658:DG:C8	2.55	0.41
11:AB:3677:DG:C8	11:AB:3678:DT:H72	2.55	0.41
11:AB:3682:DG:C8	11:AB:3683:DT:H72	2.55	0.41
11:AB:3731:DG:C8	11:AB:3732:DT:H72	2.55	0.41
11:AB:3757:DG:C8	11:AB:3758:DT:H72	2.55	0.41
11:AB:3782:DG:C8	11:AB:3783:DT:H72	2.55	0.41
11:AB:3880:DG:C8	11:AB:3881:DT:H72	2.55	0.41
11:AB:3907:DT:H2'	11:AB:3908:DT:H71	2.00	0.41
11:AB:3910:DC:H5'	11:AB:4413:DT:H1'	2.02	0.41
11:AB:3960:DG:C8	11:AB:3961:DT:H72	2.55	0.41
11:AB:3993:DG:C8	11:AB:3994:DT:H72	2.55	0.41
11:AB:4057:DG:C8	11:AB:4058:DT:H72	2.55	0.41
11:AB:4074:DG:H2''	11:AB:4075:DC:OP2	2.19	0.41
11:AB:4100:DG:C8	11:AB:4101:DT:H72	2.55	0.41
11:AB:4112:DG:C8	11:AB:4113:DT:H72	2.55	0.41
11:AB:4197:DG:C8	11:AB:4198:DT:H72	2.55	0.41
11:AB:4339:DT:H1'	11:AB:4340:DC:H5'	2.02	0.41
11:AB:4447:DT:H1'	11:AB:4448:DC:H5'	2.02	0.41
11:AB:4543:DT:H1'	11:AB:4544:DC:H5'	2.02	0.41
11:AB:4595:DT:H1'	11:AB:4596:DC:H5'	2.02	0.41
11:AB:4661:DG:C8	11:AB:4662:DT:H72	2.55	0.41
11:AB:4805:DT:H1'	11:AB:4806:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4868:DG:H1'	11:AB:4869:DT:H5'	2.00	0.41
11:AB:4881:DG:C8	11:AB:4882:DT:H72	2.55	0.41
11:AB:5021:DT:H2'	11:AB:5022:DT:H71	2.00	0.41
11:AB:5058:DG:H2''	11:AB:5059:DC:OP2	2.19	0.41
11:AB:5105:DT:H1'	11:AB:5106:DC:H5'	2.02	0.41
11:AB:5289:DG:C8	11:AB:5290:DT:H72	2.55	0.41
11:AB:5382:DG:C8	11:AB:5383:DT:H72	2.55	0.41
11:AB:5385:DT:H2'	11:AB:5386:DT:H71	2.00	0.41
11:AB:5510:DT:H1'	11:AB:5511:DC:H5'	2.02	0.41
11:AB:5662:DT:H1'	11:AB:5663:DC:H5'	2.02	0.41
11:AB:5710:DG:C8	11:AB:5711:DT:H72	2.55	0.41
11:AB:5731:DT:H2'	11:AB:5732:DT:H71	2.00	0.41
11:AB:5779:DT:H2'	11:AB:5780:DT:H71	2.00	0.41
11:AB:5780:DT:H2'	11:AB:5781:DT:H71	2.00	0.41
11:AB:5818:DG:C8	11:AB:5819:DT:H72	2.55	0.41
11:AB:5855:DT:H2'	11:AB:5856:DT:H71	2.01	0.41
11:AB:5866:DG:H2''	11:AB:5867:DC:OP2	2.20	0.41
11:AB:5935:DT:H1'	11:AB:5936:DC:H5'	2.02	0.41
11:AB:5993:DG:C8	11:AB:5994:DT:H72	2.55	0.41
11:AB:6180:DG:C8	11:AB:6181:DT:H72	2.55	0.41
11:AB:6239:DG:C8	11:AB:6240:DT:H72	2.55	0.41
11:AB:6274:DT:H2'	11:AB:6275:DT:H71	2.01	0.41
11:AB:6463:DG:H2''	11:AB:6464:DC:OP2	2.19	0.41
11:AB:6479:DG:C8	11:AB:6480:DT:H72	2.55	0.41
11:AB:6489:DT:H2'	11:AB:6490:DT:H71	2.00	0.41
11:AB:6582:DT:H2'	11:AB:6583:DT:H71	2.00	0.41
11:AB:6634:DG:C8	11:AB:6635:DT:H72	2.55	0.41
11:AB:6717:DG:C8	11:AB:6718:DT:H72	2.55	0.41
11:AB:6724:DG:C8	11:AB:6725:DT:H72	2.55	0.41
11:AB:6838:DG:C8	11:AB:6839:DT:H72	2.55	0.41
11:AB:6855:DC:H2'	11:AB:6856:DT:H71	1.99	0.41
11:AB:6957:DT:H2'	11:AB:6958:DT:H71	2.00	0.41
11:AB:7000:DC:H2'	11:AB:7001:DT:H71	1.99	0.41
11:AB:7004:DG:C8	11:AB:7005:DT:H72	2.55	0.41
11:AB:7010:DT:H1'	11:AB:7011:DC:H5'	2.02	0.41
11:AB:7032:DG:C8	11:AB:7033:DT:H72	2.55	0.41
11:AB:7047:DT:H2'	11:AB:7048:DT:H71	2.00	0.41
11:AB:7102:DG:C8	11:AB:7103:DT:H72	2.55	0.41
11:AB:7180:DG:C8	11:AB:7181:DT:H72	2.55	0.41
13:AD:37:DT:H2'	47:DD:28:DT:H71	2.01	0.41
13:AD:38:DG:C8	13:AD:39:DT:H72	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:B1:3:DG:C8	14:B1:4:DT:H72	2.55	0.41
21:B8:22:DT:H2'	139:M6:15:DT:H71	2.01	0.41
22:B9:17:DG:C8	22:B9:18:DT:H72	2.55	0.41
23:BA:6:DT:H2'	23:BA:7:DT:H71	2.01	0.41
24:BC:15:DG:H2''	24:BC:16:DC:OP2	2.19	0.41
25:BD:17:DG:C8	25:BD:18:DT:H72	2.55	0.41
30:C6:45:DG:C8	117:K5:1:DT:H72	2.55	0.41
32:C8:42:DG:C8	32:C8:43:DT:H72	2.55	0.41
36:CD:8:DT:H1'	36:CD:9:DC:H5'	2.02	0.41
39:D3:32:DG:H2''	39:D3:33:DC:OP2	2.20	0.41
42:D7:4:DG:C8	42:D7:5:DT:H72	2.55	0.41
43:D8:35:DG:H2''	117:K5:47:DC:OP1	2.20	0.41
46:DC:14:DG:C8	46:DC:15:DT:H72	2.55	0.41
50:E3:2:DG:H2''	50:E3:3:DC:OP2	2.19	0.41
51:E5:9:DT:H1'	51:E5:10:DC:H5'	2.02	0.41
54:E8:24:DT:H72	68:FC:7:DG:C8	2.55	0.41
57:EC:12:DG:C8	57:EC:13:DT:H72	2.55	0.41
58:ED:21:DG:H2''	58:ED:22:DC:OP2	2.19	0.41
60:F2:18:DT:H2'	230:W3:22:DT:H71	2.00	0.41
62:F5:10:DT:H2'	93:I2:8:DT:H71	2.00	0.41
67:FA:6:DG:C8	67:FA:7:DT:H72	2.55	0.41
69:FD:26:DG:H1'	69:FD:27:DT:H5'	2.00	0.41
69:FD:44:DG:H2''	69:FD:45:DC:OP2	2.19	0.41
72:G3:4:DG:C8	72:G3:5:DT:H72	2.55	0.41
76:G8:4:DG:H2''	109:J8:15:DC:OP1	2.20	0.41
78:GA:8:DG:C8	78:GA:9:DT:H72	2.55	0.41
79:GC:18:DG:C8	79:GC:19:DT:H72	2.55	0.41
82:H2:33:DT:H1'	82:H2:34:DC:H5'	2.02	0.41
82:H2:43:DG:H2''	82:H2:44:DC:OP2	2.20	0.41
84:H5:14:DG:C8	84:H5:15:DT:H72	2.55	0.41
87:H8:15:DG:C8	87:H8:16:DT:H72	2.55	0.41
88:H9:10:DG:H2''	133:LA:18:DC:OP1	2.20	0.41
89:HA:17:DT:H2'	89:HA:18:DT:H71	2.00	0.41
94:I3:53:DT:H71	115:K2:23:DT:H2'	2.01	0.41
96:I6:7:DT:H2'	96:I6:8:DT:H71	2.01	0.41
98:I8:20:DT:H1'	98:I8:21:DC:H5'	2.02	0.41
100:IA:6:DG:C8	100:IA:7:DT:H72	2.55	0.41
101:IC:25:DG:C8	101:IC:26:DT:H72	2.55	0.41
102:ID:26:DG:C8	102:ID:27:DT:H72	2.55	0.41
103:J1:22:DT:H1'	103:J1:23:DC:H5'	2.02	0.41
105:J3:21:DT:H71	130:L7:49:DT:H2'	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
107:J6:41:DG:C8	107:J6:42:DT:H72	2.55	0.41
111:JA:16:DT:H1'	111:JA:17:DC:H5'	2.02	0.41
114:K1:14:DT:H2'	137:M3:22:DT:H71	2.00	0.41
114:K1:22:DG:C8	114:K1:23:DT:H72	2.55	0.41
114:K1:41:DT:H1'	114:K1:42:DC:H5'	2.02	0.41
117:K5:36:DG:C8	117:K5:37:DT:H72	2.55	0.41
119:K7:27:DG:H2''	119:K7:28:DC:OP2	2.19	0.41
119:K7:29:DG:C8	119:K7:30:DT:H72	2.55	0.41
119:K7:39:DG:H2''	119:K7:40:DC:OP2	2.20	0.41
125:L1:29:DG:C8	125:L1:30:DT:H72	2.55	0.41
126:L2:31:DT:H2'	126:L2:32:DT:H71	2.00	0.41
128:L5:1:DG:C8	128:L5:2:DT:H72	2.55	0.41
128:L5:4:DG:C8	128:L5:5:DT:H72	2.55	0.41
129:L6:9:DT:H2'	129:L6:10:DT:H71	2.01	0.41
134:LC:10:DG:C8	134:LC:11:DT:H72	2.55	0.41
135:LD:7:DG:C8	135:LD:8:DT:H72	2.55	0.41
138:M5:39:DT:H2'	138:M5:40:DT:H71	2.00	0.41
145:MD:33:DG:C8	145:MD:34:DT:H72	2.55	0.41
149:N6:2:DG:H2''	149:N6:3:DC:OP2	2.20	0.41
150:N7:15:DG:C8	150:N7:16:DT:H72	2.55	0.41
154:NC:26:DG:H2''	154:NC:27:DC:OP2	2.19	0.41
158:O5:50:DG:H2''	158:O5:51:DC:OP2	2.19	0.41
159:O6:1:DT:H71	169:P6:13:DT:H2'	2.00	0.41
160:O7:43:DG:C8	160:O7:44:DT:H72	2.55	0.41
163:OA:12:DG:C8	163:OA:13:DT:H72	2.55	0.41
166:P2:23:DT:H1'	166:P2:24:DC:H5'	2.02	0.41
166:P2:28:DG:H2''	166:P2:29:DC:OP2	2.19	0.41
176:Q2:15:DG:C8	176:Q2:16:DT:H72	2.55	0.41
176:Q2:16:DT:H2'	176:Q2:17:DT:H71	2.01	0.41
178:Q5:21:DT:H1'	178:Q5:22:DC:H5'	2.02	0.41
178:Q5:30:DG:C8	178:Q5:31:DT:H72	2.55	0.41
181:Q9:29:DT:H2'	181:Q9:30:DT:H71	2.00	0.41
182:QA:11:DG:C8	182:QA:12:DT:H72	2.55	0.41
184:QD:14:DG:C8	238:X9:11:DT:H72	2.55	0.41
188:R7:10:DG:C8	188:R7:11:DT:H72	2.55	0.41
191:RA:17:DT:H2'	191:RA:18:DT:H71	2.00	0.41
203:T2:14:DG:C8	203:T2:15:DT:H72	2.55	0.41
203:T2:23:DT:H1'	203:T2:24:DC:H5'	2.02	0.41
204:T3:18:DG:C8	204:T3:19:DT:H72	2.55	0.41
212:U2:20:DG:C8	212:U2:21:DT:H72	2.55	0.41
218:UA:18:DG:C8	218:UA:19:DT:H72	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
220:UD:17:DT:H1'	220:UD:18:DC:H5'	2.02	0.41
231:W5:18:DG:C8	231:W5:19:DT:H72	2.55	0.41
231:W5:18:DG:H1'	231:W5:19:DT:H5'	2.00	0.41
232:W7:24:DT:H1'	232:W7:25:DC:H5'	2.02	0.41
233:W8:15:DG:C8	233:W8:16:DT:H72	2.55	0.41
3:A3:16:DT:H2'	39:D3:5:DT:H71	2.00	0.41
5:A5:3:DG:C8	5:A5:4:DT:H72	2.55	0.41
6:A6:28:DG:H2''	6:A6:29:DC:OP2	2.19	0.41
10:AA:27:DG:C8	216:U8:1:DT:H72	2.55	0.41
11:AB:16:DG:C8	11:AB:17:DT:H72	2.55	0.41
11:AB:249:DT:H1'	11:AB:250:DC:H5'	2.02	0.41
11:AB:261:DG:C8	11:AB:262:DT:H72	2.55	0.41
11:AB:388:DT:H2'	11:AB:389:DT:H71	2.00	0.41
11:AB:409:DG:H1'	11:AB:410:DT:H5'	2.00	0.41
11:AB:518:DT:H1'	11:AB:519:DC:H5'	2.02	0.41
11:AB:584:DG:C8	11:AB:585:DT:H72	2.55	0.41
11:AB:623:DG:C8	11:AB:624:DT:H72	2.55	0.41
11:AB:712:DC:H2'	11:AB:713:DT:H71	1.99	0.41
11:AB:731:DG:H1'	11:AB:732:DT:H5'	2.00	0.41
11:AB:865:DC:OP1	11:AB:6788:DG:H2''	2.20	0.41
11:AB:952:DG:H1'	11:AB:953:DT:H5'	2.00	0.41
11:AB:964:DG:C8	11:AB:965:DT:H72	2.55	0.41
11:AB:1075:DT:H1'	11:AB:1076:DC:H5'	2.01	0.41
11:AB:1114:DG:H1'	11:AB:1115:DT:H5'	2.00	0.41
11:AB:1153:DG:C8	11:AB:1154:DT:H72	2.55	0.41
11:AB:1434:DT:H2'	11:AB:1435:DT:H71	2.01	0.41
11:AB:1680:DT:H2'	11:AB:1681:DT:H71	2.00	0.41
11:AB:1724:DG:C8	11:AB:1725:DT:H72	2.55	0.41
11:AB:1725:DT:H2'	11:AB:1726:DT:H71	2.00	0.41
11:AB:1843:DT:H2'	11:AB:1844:DT:H71	2.00	0.41
11:AB:1954:DC:H2'	11:AB:1955:DT:H71	1.98	0.41
11:AB:1984:DG:H1'	11:AB:1985:DT:H5'	2.00	0.41
11:AB:2056:DG:C8	11:AB:2057:DT:H72	2.55	0.41
11:AB:2096:DG:C8	11:AB:2097:DT:H72	2.55	0.41
11:AB:2110:DG:C8	11:AB:2111:DT:H72	2.55	0.41
11:AB:2128:DT:H2'	11:AB:2129:DT:H71	2.01	0.41
11:AB:2209:DG:C8	11:AB:2210:DT:H72	2.55	0.41
11:AB:2239:DG:C8	11:AB:2240:DT:H72	2.55	0.41
11:AB:2356:DG:C8	11:AB:2357:DT:H72	2.55	0.41
11:AB:2520:DT:H1'	11:AB:2521:DC:H5'	2.02	0.41
11:AB:2734:DG:C8	11:AB:2735:DT:H72	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2799:DG:C8	11:AB:2800:DT:H72	2.55	0.41
11:AB:2833:DG:C8	11:AB:2834:DT:H72	2.55	0.41
11:AB:3084:DT:H1'	11:AB:3085:DC:H5'	2.02	0.41
11:AB:3193:DT:H2'	11:AB:3194:DT:H71	2.00	0.41
11:AB:3350:DT:H1'	11:AB:3351:DC:H5'	2.02	0.41
11:AB:3395:DG:C8	11:AB:3396:DT:H72	2.55	0.41
11:AB:3439:DT:H2'	11:AB:3440:DT:H71	2.00	0.41
11:AB:3502:DG:C8	11:AB:3503:DT:H72	2.55	0.41
11:AB:3504:DT:H2'	11:AB:3505:DT:H71	2.00	0.41
11:AB:3527:DT:H1'	11:AB:3528:DC:H5'	2.02	0.41
11:AB:3566:DG:H2''	11:AB:3567:DC:OP2	2.20	0.41
11:AB:3571:DT:H2'	11:AB:3572:DT:H71	2.00	0.41
11:AB:3611:DG:C8	11:AB:3612:DT:H72	2.55	0.41
11:AB:3703:DG:C8	11:AB:3704:DT:H72	2.55	0.41
11:AB:3715:DT:H2'	11:AB:3716:DT:H71	2.00	0.41
11:AB:3818:DG:C8	11:AB:3819:DT:H72	2.55	0.41
11:AB:3824:DG:H1'	11:AB:3825:DT:H5'	2.00	0.41
11:AB:3847:DG:C8	11:AB:3848:DT:H72	2.55	0.41
11:AB:3911:DT:H1'	11:AB:3912:DC:H5'	2.02	0.41
11:AB:3942:DT:H1'	11:AB:3943:DC:H5'	2.02	0.41
11:AB:3967:DT:H1'	11:AB:3968:DC:H5'	2.02	0.41
11:AB:4094:DG:C8	11:AB:4095:DT:H72	2.55	0.41
11:AB:4154:DG:H2''	11:AB:4155:DC:OP2	2.19	0.41
11:AB:4161:DT:H1'	11:AB:4162:DC:H5'	2.02	0.41
11:AB:4171:DT:H1'	11:AB:4172:DC:H5'	2.01	0.41
11:AB:4175:DG:H2''	11:AB:4176:DC:OP2	2.19	0.41
11:AB:4284:DG:H1'	11:AB:4285:DT:H5'	2.00	0.41
11:AB:4315:DG:C8	11:AB:4316:DT:H72	2.55	0.41
11:AB:4394:DT:H1'	11:AB:4395:DC:H5'	2.02	0.41
11:AB:4681:DG:C8	11:AB:4682:DT:H72	2.55	0.41
11:AB:4770:DT:H1'	11:AB:4771:DC:H5'	2.02	0.41
11:AB:4828:DT:H1'	11:AB:4829:DC:H5'	2.02	0.41
11:AB:4953:DG:C8	11:AB:4954:DT:H72	2.55	0.41
11:AB:4967:DG:H2''	11:AB:4968:DC:OP2	2.20	0.41
11:AB:4996:DG:H2''	11:AB:4997:DC:OP2	2.20	0.41
11:AB:5124:DG:C8	11:AB:5125:DT:H72	2.55	0.41
11:AB:5286:DT:H2'	11:AB:5287:DT:H71	2.00	0.41
11:AB:5548:DG:H2''	11:AB:5549:DC:OP2	2.19	0.41
11:AB:5728:DG:C8	11:AB:5729:DT:H72	2.55	0.41
11:AB:5802:DG:C8	11:AB:5803:DT:H72	2.55	0.41
11:AB:5982:DT:H2'	11:AB:5983:DT:H71	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6001:DG:H1'	11:AB:6002:DT:H5'	2.00	0.41
11:AB:6009:DT:H2'	11:AB:6010:DT:H71	2.00	0.41
11:AB:6019:DG:H1'	11:AB:6020:DT:H5'	2.00	0.41
11:AB:6126:DG:C8	11:AB:6127:DT:H72	2.55	0.41
11:AB:6201:DT:H1'	11:AB:6202:DC:H5'	2.02	0.41
11:AB:6277:DT:H1'	11:AB:6278:DC:H5'	2.01	0.41
11:AB:6353:DT:H1'	11:AB:6354:DC:H5'	2.01	0.41
11:AB:6422:DG:C8	11:AB:6423:DT:H72	2.55	0.41
11:AB:6557:DG:H1'	11:AB:6558:DT:H5'	2.00	0.41
11:AB:6592:DG:C8	11:AB:6593:DT:H72	2.55	0.41
11:AB:6760:DG:C8	11:AB:6761:DT:H72	2.55	0.41
11:AB:6789:DG:C8	11:AB:6790:DT:H72	2.55	0.41
11:AB:6854:DT:H1'	11:AB:6855:DC:H5'	2.01	0.41
11:AB:6857:DG:H1'	11:AB:6858:DT:H5'	2.00	0.41
11:AB:7040:DG:C8	11:AB:7041:DT:H72	2.55	0.41
11:AB:7075:DT:H2'	11:AB:7076:DT:H71	2.00	0.41
11:AB:7091:DG:C8	11:AB:7092:DT:H72	2.55	0.41
11:AB:7169:DG:C8	11:AB:7170:DT:H72	2.55	0.41
11:AB:7171:DT:H1'	11:AB:7172:DC:H5'	2.02	0.41
11:AB:7183:DT:H2'	11:AB:7184:DT:H71	2.00	0.41
13:AD:22:DG:C8	13:AD:23:DT:H72	2.55	0.41
19:B6:21:DT:H1'	19:B6:22:DC:H5'	2.02	0.41
21:B8:26:DG:C8	21:B8:27:DT:H72	2.55	0.41
22:B9:47:DG:C8	22:B9:48:DT:H72	2.55	0.41
26:C1:15:DT:H2'	26:C1:16:DT:H71	2.00	0.41
29:C5:16:DG:C8	29:C5:17:DT:H72	2.55	0.41
31:C7:16:DT:H1'	31:C7:17:DC:H5'	2.02	0.41
32:C8:8:DG:H2''	32:C8:9:DC:OP2	2.20	0.41
36:CD:19:DG:C8	36:CD:20:DT:H72	2.55	0.41
41:D6:27:DG:C8	41:D6:28:DT:H72	2.55	0.41
41:D6:46:DT:H1'	238:X9:1:DC:H5'	2.02	0.41
54:E8:14:DT:H1'	54:E8:15:DC:H5'	2.02	0.41
54:E8:30:DT:H1'	90:HC:17:DC:H5'	2.02	0.41
65:F8:5:DT:H1'	65:F8:6:DC:H5'	2.02	0.41
67:FA:22:DG:C8	67:FA:23:DT:H72	2.55	0.41
68:FC:5:DG:H2''	68:FC:6:DC:OP2	2.19	0.41
68:FC:11:DG:C8	68:FC:12:DT:H72	2.55	0.41
74:G6:9:DG:C8	74:G6:10:DT:H72	2.55	0.41
78:GA:3:DG:C8	78:GA:4:DT:H72	2.55	0.41
79:GC:12:DG:H2''	79:GC:13:DC:OP2	2.19	0.41
79:GC:19:DT:H2'	79:GC:20:DT:H71	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
91:HD:19:DG:H2''	91:HD:20:DC:OP2	2.20	0.41
91:HD:26:DG:C8	91:HD:27:DT:H72	2.55	0.41
92:I1:7:DT:H1'	92:I1:8:DC:H5'	2.02	0.41
94:I3:2:DG:C8	94:I3:3:DT:H72	2.55	0.41
94:I3:25:DT:H71	107:J6:28:DT:H2'	2.01	0.41
95:I5:14:DG:H2''	138:M5:36:DC:OP1	2.20	0.41
95:I5:22:DG:C8	95:I5:23:DT:H72	2.55	0.41
97:I7:11:DG:C8	97:I7:12:DT:H72	2.55	0.41
100:IA:7:DT:H1'	100:IA:8:DC:H5'	2.02	0.41
102:ID:8:DG:H1'	102:ID:9:DT:H5'	2.00	0.41
103:J1:26:DG:C8	103:J1:27:DT:H72	2.55	0.41
105:J3:28:DT:H71	235:WD:13:DT:H2'	2.00	0.41
117:K5:44:DG:C8	117:K5:45:DT:H72	2.55	0.41
119:K7:29:DG:H1'	119:K7:30:DT:H5'	2.00	0.41
123:KC:13:DT:H2'	123:KC:14:DT:H71	2.00	0.41
124:KD:23:DG:C8	132:L9:1:DT:H72	2.55	0.41
126:L2:17:DG:C8	126:L2:18:DT:H72	2.55	0.41
133:LA:6:DG:H2''	133:LA:7:DC:OP2	2.20	0.41
134:LC:19:DG:C8	134:LC:20:DT:H72	2.55	0.41
143:MA:30:DG:H2''	143:MA:31:DC:OP2	2.20	0.41
145:MD:26:DT:H1'	145:MD:27:DC:H5'	2.01	0.41
146:N2:3:DG:C8	146:N2:4:DT:H72	2.55	0.41
154:NC:24:DG:H2''	192:RC:21:DC:OP1	2.20	0.41
155:ND:10:DG:C8	155:ND:11:DT:H72	2.55	0.41
159:O6:11:DG:C8	159:O6:12:DT:H72	2.55	0.41
161:O8:49:DT:H1'	161:O8:50:DC:H5'	2.02	0.41
163:OA:13:DT:H1'	163:OA:14:DC:H5'	2.02	0.41
166:P2:6:DG:C8	166:P2:7:DT:H72	2.55	0.41
166:P2:9:DG:H2''	166:P2:10:DC:OP2	2.20	0.41
167:P3:15:DT:H1'	167:P3:16:DC:H5'	2.02	0.41
169:P6:12:DG:C8	169:P6:13:DT:H72	2.55	0.41
173:PA:18:DG:C8	173:PA:19:DT:H72	2.55	0.41
174:PC:23:DG:H2''	174:PC:24:DC:OP2	2.20	0.41
177:Q3:11:DT:H2'	177:Q3:12:DT:H71	2.00	0.41
178:Q5:36:DT:H1'	178:Q5:37:DC:H5'	2.02	0.41
192:RC:26:DT:H1'	192:RC:27:DC:H5'	2.02	0.41
194:S2:21:DT:H1'	194:S2:22:DC:H5'	2.02	0.41
204:T3:31:DG:C8	204:T3:32:DT:H72	2.55	0.41
207:T8:7:DG:C8	207:T8:8:DT:H72	2.55	0.41
207:T8:19:DG:C8	207:T8:20:DT:H72	2.55	0.41
211:TD:25:DT:H2'	211:TD:26:DT:H71	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
213:U3:6:DG:C8	213:U3:7:DT:H72	2.55	0.41
214:U5:38:DG:C8	214:U5:39:DT:H72	2.55	0.41
219:UC:18:DG:C8	219:UC:19:DT:H72	2.55	0.41
1:A1:53:DG:C8	1:A1:54:DT:H72	2.55	0.41
10:AA:16:DT:H2'	22:B9:29:DT:H71	2.00	0.41
11:AB:6:DT:H1'	11:AB:7:DC:H5'	2.01	0.41
11:AB:248:DT:H2'	11:AB:249:DT:H71	2.00	0.41
11:AB:311:DT:H1'	11:AB:312:DC:H5'	2.02	0.41
11:AB:312:DC:H2'	11:AB:313:DT:H71	1.99	0.41
11:AB:529:DC:H2'	11:AB:530:DT:H71	1.99	0.41
11:AB:575:DT:H1'	11:AB:576:DC:H5'	2.02	0.41
11:AB:577:DT:H2'	11:AB:578:DT:H71	2.00	0.41
11:AB:772:DT:H1'	11:AB:773:DC:H5'	2.02	0.41
11:AB:777:DT:H1'	11:AB:778:DC:H5'	2.02	0.41
11:AB:876:DT:H1'	11:AB:877:DC:H5'	2.02	0.41
11:AB:1095:DG:H2''	11:AB:1096:DC:OP2	2.20	0.41
11:AB:1138:DG:C8	11:AB:1139:DT:H72	2.55	0.41
11:AB:1224:DT:H2'	11:AB:1225:DT:H71	2.00	0.41
11:AB:1309:DT:H2'	11:AB:1310:DT:H71	2.00	0.41
11:AB:1336:DG:C8	11:AB:1337:DT:H72	2.55	0.41
11:AB:1339:DG:H1'	11:AB:1340:DT:H5'	2.00	0.41
11:AB:1352:DT:H1'	11:AB:1353:DC:H5'	2.02	0.41
11:AB:1380:DG:C8	11:AB:1381:DT:H72	2.55	0.41
11:AB:1385:DT:H2'	11:AB:1386:DT:H71	2.00	0.41
11:AB:1391:DG:C8	11:AB:1392:DT:H72	2.55	0.41
11:AB:1408:DG:C8	11:AB:1409:DT:H72	2.55	0.41
11:AB:1470:DG:C8	11:AB:1471:DT:H72	2.55	0.41
11:AB:1491:DT:H1'	11:AB:1492:DC:H5'	2.02	0.41
11:AB:1524:DT:H1'	11:AB:1525:DC:H5'	2.02	0.41
11:AB:1527:DG:H1'	11:AB:1528:DT:H5'	2.01	0.41
11:AB:1560:DC:H2'	11:AB:1561:DT:H71	1.99	0.41
11:AB:1706:DG:H2''	11:AB:1707:DC:OP2	2.20	0.41
11:AB:1716:DT:H2'	11:AB:1717:DT:H71	2.00	0.41
11:AB:1799:DC:H2'	11:AB:1800:DT:H71	1.99	0.41
11:AB:1822:DT:H2'	11:AB:1823:DT:H71	2.00	0.41
11:AB:1853:DG:C8	11:AB:1854:DT:H72	2.55	0.41
11:AB:2150:DA:H2'	11:AB:2151:DT:H72	2.00	0.41
11:AB:2198:DT:H2'	11:AB:2199:DT:H71	2.00	0.41
11:AB:2201:DT:H2'	11:AB:2202:DT:H71	2.00	0.41
11:AB:2298:DG:C8	11:AB:2299:DT:H72	2.55	0.41
11:AB:2392:DC:H2'	11:AB:2393:DT:H71	1.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2418:DG:C8	11:AB:2419:DT:H72	2.55	0.41
11:AB:2419:DT:H2'	11:AB:2420:DT:H71	2.00	0.41
11:AB:2423:DT:H2'	11:AB:2424:DT:H71	2.00	0.41
11:AB:2452:DG:C8	11:AB:2453:DT:H72	2.55	0.41
11:AB:2526:DG:C8	11:AB:2527:DT:H72	2.55	0.41
11:AB:2595:DG:C8	11:AB:2596:DT:H72	2.55	0.41
11:AB:2649:DT:H1'	11:AB:2650:DC:H5'	2.02	0.41
11:AB:2681:DT:H2'	11:AB:2682:DT:H71	2.00	0.41
11:AB:2818:DG:H1'	11:AB:2819:DT:H5'	2.00	0.41
11:AB:2820:DT:H2'	11:AB:2821:DT:H71	2.00	0.41
11:AB:2834:DT:H2'	11:AB:2835:DT:H71	2.00	0.41
11:AB:2845:DT:H1'	11:AB:2846:DC:H5'	2.02	0.41
11:AB:2847:DT:H2'	11:AB:2848:DT:H71	2.00	0.41
11:AB:2962:DG:C8	11:AB:2963:DT:H72	2.55	0.41
11:AB:2967:DT:H2'	11:AB:2968:DT:H71	2.00	0.41
11:AB:3005:DT:H2'	11:AB:3006:DT:H71	2.00	0.41
11:AB:3063:DT:H1'	11:AB:3064:DC:H5'	2.02	0.41
11:AB:3152:DG:C8	11:AB:3153:DT:H72	2.55	0.41
11:AB:3232:DG:C8	11:AB:3233:DT:H72	2.55	0.41
11:AB:3235:DG:C8	11:AB:3236:DT:H72	2.55	0.41
11:AB:3277:DG:C8	11:AB:3278:DT:H72	2.55	0.41
11:AB:3287:DT:H2'	11:AB:3288:DT:H71	2.00	0.41
11:AB:3307:DG:C8	11:AB:3308:DT:H72	2.55	0.41
11:AB:3314:DG:C8	11:AB:3315:DT:H72	2.55	0.41
11:AB:3329:DT:H2'	11:AB:3330:DT:H71	2.00	0.41
11:AB:3341:DT:H2'	11:AB:3342:DT:H71	2.00	0.41
11:AB:3717:DT:H1'	11:AB:3718:DC:H5'	2.02	0.41
11:AB:3720:DG:H2''	11:AB:4477:DC:OP1	2.20	0.41
11:AB:3737:DA:H2'	11:AB:3738:DT:H72	2.00	0.41
11:AB:3758:DT:H2'	11:AB:3759:DT:H71	2.00	0.41
11:AB:3766:DG:C8	11:AB:3767:DT:H72	2.55	0.41
11:AB:3788:DT:H2'	11:AB:3789:DT:H71	2.00	0.41
11:AB:3828:DT:H2'	11:AB:3829:DT:H71	2.00	0.41
11:AB:3854:DC:H2'	11:AB:3855:DT:H71	1.99	0.41
11:AB:4040:DT:H1'	11:AB:4041:DC:H5'	2.02	0.41
11:AB:4278:DG:C8	11:AB:4279:DT:H72	2.55	0.41
11:AB:4355:DG:C8	11:AB:4356:DT:H72	2.55	0.41
11:AB:4459:DT:H2'	11:AB:4460:DT:H72	2.02	0.41
11:AB:4574:DG:H2''	11:AB:4575:DC:OP2	2.19	0.41
11:AB:4665:DG:H2''	11:AB:4666:DC:OP2	2.20	0.41
11:AB:4743:DG:C8	11:AB:4744:DT:H72	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4768:DT:H2'	11:AB:4769:DT:H71	2.00	0.41
11:AB:4804:DT:H2'	11:AB:4805:DT:H71	2.00	0.41
11:AB:5020:DC:H2'	11:AB:5021:DT:H71	1.99	0.41
11:AB:5022:DT:H2'	11:AB:5023:DT:H71	2.00	0.41
11:AB:5093:DG:C8	11:AB:5094:DT:H72	2.55	0.41
11:AB:5179:DG:C8	11:AB:5180:DT:H72	2.55	0.41
11:AB:5208:DG:C8	11:AB:5209:DT:H72	2.55	0.41
11:AB:5215:DG:H2''	11:AB:5216:DC:OP2	2.20	0.41
11:AB:5242:DG:H2''	11:AB:5243:DC:OP2	2.20	0.41
11:AB:5279:DG:C8	11:AB:5280:DT:H72	2.55	0.41
11:AB:5363:DT:H2'	11:AB:5364:DT:H72	2.02	0.41
11:AB:5404:DT:H1'	11:AB:5405:DC:H5'	2.02	0.41
11:AB:5521:DG:H2''	11:AB:5522:DC:OP2	2.20	0.41
11:AB:5537:DT:H2'	11:AB:5538:DT:H71	2.00	0.41
11:AB:5607:DT:H2'	11:AB:5608:DT:H71	2.00	0.41
11:AB:5735:DG:C8	11:AB:5736:DT:H72	2.55	0.41
11:AB:5914:DG:C8	11:AB:5915:DT:H72	2.55	0.41
11:AB:5968:DA:H2'	11:AB:5969:DT:H72	2.00	0.41
11:AB:5983:DT:H1'	11:AB:5984:DC:H5'	2.02	0.41
11:AB:6078:DT:H2'	11:AB:6079:DT:H71	2.00	0.41
11:AB:6137:DG:H1'	11:AB:6138:DT:H5'	2.00	0.41
11:AB:6183:DT:H2'	11:AB:6184:DT:H71	2.00	0.41
11:AB:6245:DG:H1'	11:AB:6246:DT:H5'	2.00	0.41
11:AB:6581:DG:C8	11:AB:6582:DT:H72	2.55	0.41
11:AB:6672:DG:C8	11:AB:6673:DT:H72	2.55	0.41
11:AB:6673:DT:H2'	11:AB:6674:DT:H71	2.00	0.41
11:AB:6817:DG:H1'	11:AB:6818:DT:H5'	2.00	0.41
11:AB:7033:DT:H2'	11:AB:7034:DT:H71	2.00	0.41
11:AB:7048:DT:H2'	11:AB:7049:DT:H71	2.00	0.41
11:AB:7070:DG:C8	11:AB:7071:DT:H72	2.55	0.41
11:AB:7096:DT:H2'	11:AB:7097:DT:H71	2.00	0.41
11:AB:7136:DG:C8	11:AB:7137:DT:H72	2.55	0.41
11:AB:7157:DG:C8	11:AB:7158:DT:H72	2.55	0.41
11:AB:7161:DC:H2'	11:AB:7162:DT:H71	1.99	0.41
11:AB:7185:DT:H1'	11:AB:7186:DC:H5'	2.02	0.41
17:B4:11:DG:H2''	17:B4:12:DC:OP2	2.19	0.41
18:B5:18:DT:H2'	18:B5:19:DT:H71	2.00	0.41
18:B5:19:DT:H2'	18:B5:20:DT:H71	2.00	0.41
21:B8:27:DT:H2'	149:N6:1:DT:H71	2.00	0.41
22:B9:34:DG:C8	22:B9:35:DT:H72	2.55	0.41
23:BA:26:DT:H1'	23:BA:27:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:C1:14:DC:H2'	26:C1:15:DT:H71	1.99	0.41
29:C5:7:DA:H2'	29:C5:8:DT:H72	2.00	0.41
33:C9:2:DG:C8	33:C9:3:DT:H72	2.55	0.41
33:C9:3:DT:H1'	33:C9:4:DC:H5'	2.02	0.41
33:C9:5:DC:H5'	145:MD:58:DT:H1'	2.02	0.41
39:D3:10:DG:C8	39:D3:11:DT:H72	2.55	0.41
48:E1:26:DG:C8	48:E1:27:DT:H72	2.55	0.41
51:E5:16:DG:H1'	51:E5:17:DT:H5'	2.00	0.41
53:E7:5:DT:H2'	53:E7:6:DT:H71	2.00	0.41
54:E8:17:DT:H71	109:J8:21:DT:H2'	2.00	0.41
55:E9:32:DT:H2'	55:E9:33:DT:H71	2.00	0.41
62:F5:13:DT:H1'	62:F5:14:DC:H5'	2.02	0.41
64:F7:21:DT:H1'	64:F7:22:DC:H5'	2.01	0.41
66:F9:16:DG:C8	66:F9:17:DT:H72	2.55	0.41
68:FC:17:DG:H2''	68:FC:18:DC:OP2	2.20	0.41
70:G1:13:DT:H1'	70:G1:14:DC:H5'	2.02	0.41
72:G3:9:DT:H1'	72:G3:10:DC:H5'	2.02	0.41
76:G8:16:DT:H2'	76:G8:17:DT:H71	2.00	0.41
86:H7:17:DT:H2'	86:H7:18:DT:H71	2.00	0.41
95:I5:34:DG:C8	95:I5:35:DT:H72	2.55	0.41
97:I7:14:DG:C8	97:I7:15:DT:H72	2.55	0.41
99:I9:21:DG:H2''	99:I9:22:DC:OP2	2.19	0.41
101:IC:23:DC:H2'	101:IC:24:DT:H71	1.99	0.41
102:ID:9:DT:H2'	102:ID:10:DT:H71	2.00	0.41
104:J2:19:DT:H2'	104:J2:20:DT:H71	2.00	0.41
107:J6:26:DT:H1'	107:J6:27:DC:H5'	2.01	0.41
108:J7:36:DG:C8	108:J7:37:DT:H72	2.55	0.41
110:J9:18:DG:H2''	110:J9:19:DC:OP2	2.20	0.41
112:JC:12:DG:H2''	112:JC:13:DC:OP2	2.19	0.41
117:K5:37:DT:H2'	117:K5:38:DT:H71	2.00	0.41
121:K9:18:DT:H2'	121:K9:19:DT:H71	2.00	0.41
122:KA:7:DT:H2'	209:TA:19:DT:H71	2.00	0.41
125:L1:45:DG:C8	125:L1:46:DT:H72	2.55	0.41
127:L3:8:DA:H2'	127:L3:9:DT:H72	2.00	0.41
130:L7:10:DG:C8	130:L7:11:DT:H72	2.55	0.41
133:LA:8:DT:H2'	133:LA:9:DT:H71	2.00	0.41
135:LD:21:DA:H2'	135:LD:22:DT:H72	2.00	0.41
139:M6:9:DT:H1'	139:M6:10:DC:H5'	2.02	0.41
140:M7:5:DT:H1'	140:M7:6:DC:H5'	2.02	0.41
144:MC:13:DG:C8	144:MC:14:DT:H72	2.55	0.41
144:MC:14:DT:H2'	144:MC:15:DT:H71	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
149:N6:24:DG:C8	149:N6:25:DT:H72	2.55	0.41
156:O2:1:DT:H71	166:P2:16:DT:H2'	2.00	0.41
156:O2:59:DG:C8	156:O2:60:DT:H72	2.55	0.41
161:O8:14:DG:C8	161:O8:15:DT:H72	2.55	0.41
164:OC:19:DT:H1'	164:OC:20:DC:H5'	2.02	0.41
164:OC:26:DG:C8	164:OC:27:DT:H72	2.55	0.41
172:P9:23:DT:H2'	172:P9:24:DT:H71	2.00	0.41
178:Q5:24:DG:C8	178:Q5:25:DT:H72	2.55	0.41
182:QA:24:DG:C8	182:QA:25:DT:H72	2.55	0.41
185:R2:1:DT:H71	198:S8:31:DT:H2'	2.00	0.41
190:R9:36:DT:H2'	190:R9:37:DT:H71	2.00	0.41
191:RA:18:DT:H2'	191:RA:19:DT:H71	2.00	0.41
192:RC:31:DT:H2'	192:RC:32:DT:H71	2.00	0.41
196:S5:24:DC:H2'	196:S5:25:DT:H71	1.99	0.41
200:SA:23:DT:H2'	200:SA:24:DT:H71	2.00	0.41
205:T5:19:DT:H1'	205:T5:20:DC:H5'	2.02	0.41
210:TC:15:DT:H1'	210:TC:16:DC:H5'	2.02	0.41
214:U5:39:DT:H2'	214:U5:40:DT:H71	2.00	0.41
220:UD:9:DG:H2''	220:UD:10:DC:OP2	2.20	0.41
221:V2:16:DT:H2'	221:V2:17:DT:H71	2.00	0.41
227:VA:24:DG:C8	227:VA:25:DT:H72	2.55	0.41
230:W3:11:DT:H2'	230:W3:12:DT:H71	2.00	0.41
230:W3:13:DG:C8	230:W3:14:DT:H72	2.55	0.41
230:W3:25:DT:H2'	230:W3:26:DT:H71	2.00	0.41
230:W3:29:DA:H2'	230:W3:30:DT:H72	2.00	0.41
231:W5:11:DT:H2'	231:W5:12:DT:H71	2.00	0.41
231:W5:13:DG:H2''	231:W5:14:DC:OP2	2.20	0.41
235:WD:12:DG:C8	235:WD:13:DT:H72	2.55	0.41
238:X9:39:DA:H2'	238:X9:40:DT:H72	2.00	0.41
1:A1:50:DC:H2'	1:A1:51:DT:H71	1.99	0.41
4:A4:25:DG:C8	4:A4:26:DT:H72	2.55	0.41
11:AB:164:DA:H2'	11:AB:165:DT:H72	2.00	0.41
11:AB:314:DG:H1'	11:AB:315:DT:H5'	2.00	0.41
11:AB:375:DG:C8	11:AB:376:DT:H72	2.55	0.41
11:AB:740:DT:H2'	11:AB:741:DT:H71	2.00	0.41
11:AB:1046:DG:C8	11:AB:1047:DT:H72	2.55	0.41
11:AB:1188:DG:C8	11:AB:1189:DT:H72	2.55	0.41
11:AB:1328:DC:H2'	11:AB:1329:DT:H71	1.99	0.41
11:AB:1393:DT:H2'	11:AB:1394:DT:H71	2.00	0.41
11:AB:1457:DT:H2'	11:AB:1458:DT:H72	2.02	0.41
11:AB:1589:DG:C8	11:AB:1590:DT:H72	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1596:DA:H2'	11:AB:1597:DT:H72	2.00	0.41
11:AB:1656:DT:H1'	11:AB:1657:DC:H5'	2.02	0.41
11:AB:1681:DT:H2'	11:AB:1682:DT:H71	2.00	0.41
11:AB:1981:DG:H2''	11:AB:1982:DC:OP2	2.20	0.41
11:AB:1991:DT:H2'	11:AB:1992:DT:H71	2.00	0.41
11:AB:2006:DT:H72	11:AB:5913:DT:H2'	2.02	0.41
11:AB:2034:DT:H71	11:AB:5857:DT:H2'	2.01	0.41
11:AB:2107:DC:H2'	11:AB:2108:DT:H71	1.99	0.41
11:AB:2210:DT:H1'	11:AB:2211:DC:H5'	2.02	0.41
11:AB:2235:DG:C8	11:AB:2236:DT:H72	2.55	0.41
11:AB:2461:DT:H1'	11:AB:2462:DC:H5'	2.02	0.41
11:AB:2518:DT:H2'	11:AB:2519:DT:H71	2.00	0.41
11:AB:2657:DT:H1'	11:AB:2658:DC:H5'	2.02	0.41
11:AB:2757:DT:H2'	11:AB:2758:DT:H71	2.01	0.41
11:AB:2893:DG:H1'	11:AB:2894:DT:H5'	2.00	0.41
11:AB:2898:DT:H2'	11:AB:2899:DT:H71	2.01	0.41
11:AB:2932:DG:C8	11:AB:2933:DT:H72	2.55	0.41
11:AB:3009:DT:H2'	11:AB:3010:DT:H71	2.00	0.41
11:AB:3022:DG:H2''	11:AB:3023:DC:OP2	2.20	0.41
11:AB:3030:DT:H2'	11:AB:3031:DT:H71	2.00	0.41
11:AB:3142:DG:H2''	11:AB:3143:DC:OP2	2.20	0.41
11:AB:3148:DT:H1'	11:AB:3149:DC:H5'	2.02	0.41
11:AB:3163:DG:H1'	11:AB:3164:DT:H5'	2.00	0.41
11:AB:3221:DA:H2'	11:AB:3222:DT:H72	2.00	0.41
11:AB:3222:DT:H2'	11:AB:3223:DT:H71	2.01	0.41
11:AB:3308:DT:H2'	11:AB:3309:DT:H71	2.00	0.41
11:AB:3397:DT:H2'	11:AB:3398:DT:H71	2.01	0.41
11:AB:3467:DT:H2'	11:AB:3468:DT:H71	2.00	0.41
11:AB:3521:DG:H1'	11:AB:3522:DT:H5'	2.00	0.41
11:AB:3562:DG:C8	11:AB:3563:DT:H72	2.55	0.41
11:AB:3579:DT:H72	11:AB:4754:DT:H2'	2.02	0.41
11:AB:3716:DT:H2'	11:AB:3717:DT:H71	2.00	0.41
11:AB:3767:DT:H2'	11:AB:3768:DT:H71	2.00	0.41
11:AB:3769:DG:H2''	11:AB:3770:DC:OP2	2.20	0.41
11:AB:3792:DT:H1'	11:AB:3793:DC:H5'	2.02	0.41
11:AB:3905:DT:H2'	11:AB:3906:DT:H71	2.00	0.41
11:AB:3926:DA:H2'	11:AB:3927:DT:H72	2.00	0.41
11:AB:4141:DG:H2''	11:AB:4142:DC:OP2	2.20	0.41
11:AB:4151:DT:H2'	11:AB:4320:DT:H71	2.00	0.41
11:AB:4168:DC:H2'	11:AB:4169:DT:H71	1.99	0.41
11:AB:4326:DT:H2'	11:AB:4327:DT:H71	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4428:DG:H2''	11:AB:4429:DC:OP2	2.20	0.41
11:AB:4501:DT:H1'	11:AB:4502:DC:H5'	2.01	0.41
11:AB:4525:DG:H2''	11:AB:4526:DC:OP2	2.20	0.41
11:AB:4605:DT:H2'	11:AB:4606:DT:H71	2.00	0.41
11:AB:4859:DG:H2''	11:AB:4860:DC:OP2	2.20	0.41
11:AB:4865:DG:H2''	11:AB:4866:DC:OP2	2.20	0.41
11:AB:4994:DT:H2'	11:AB:4995:DT:H71	2.00	0.41
11:AB:5032:DT:H1'	11:AB:5033:DC:H5'	2.02	0.41
11:AB:5205:DG:C8	11:AB:5206:DT:H72	2.55	0.41
11:AB:5223:DT:H2'	11:AB:5224:DT:H71	2.00	0.41
11:AB:5307:DT:H2'	11:AB:5308:DT:H71	2.00	0.41
11:AB:5383:DT:H2'	11:AB:5384:DT:H71	2.00	0.41
11:AB:5565:DT:H1'	11:AB:5566:DC:H5'	2.02	0.41
11:AB:5697:DT:H2'	11:AB:5698:DT:H71	2.00	0.41
11:AB:5746:DT:H2'	11:AB:5747:DT:H72	2.02	0.41
11:AB:5767:DT:H2'	11:AB:5768:DT:H71	2.01	0.41
11:AB:5808:DT:H2'	11:AB:5809:DT:H71	2.00	0.41
11:AB:5825:DC:H2'	11:AB:5826:DT:H71	1.99	0.41
11:AB:5889:DA:H1'	11:AB:5890:DC:H5'	2.03	0.41
11:AB:5917:DT:H1'	11:AB:5918:DC:H5'	2.02	0.41
11:AB:5944:DT:H1'	11:AB:5945:DC:H5'	2.02	0.41
11:AB:6002:DT:H2'	11:AB:6003:DT:H71	2.00	0.41
11:AB:6076:DT:H1'	11:AB:6077:DC:H5'	2.02	0.41
11:AB:6127:DT:H2'	11:AB:6128:DT:H71	2.00	0.41
11:AB:6128:DT:H2'	11:AB:6129:DT:H71	2.00	0.41
11:AB:6215:DT:H1'	11:AB:6216:DC:H5'	2.02	0.41
11:AB:6270:DG:C8	11:AB:6271:DT:H72	2.55	0.41
11:AB:6291:DG:C8	11:AB:6292:DT:H72	2.55	0.41
11:AB:6302:DT:H2'	11:AB:6303:DT:H71	2.00	0.41
11:AB:6323:DT:H2'	11:AB:6324:DT:H71	2.00	0.41
11:AB:6349:DG:H2''	11:AB:6350:DC:OP2	2.20	0.41
11:AB:6483:DT:H2'	11:AB:6484:DT:H71	2.00	0.41
11:AB:6502:DT:H1'	11:AB:6503:DC:H5'	2.02	0.41
11:AB:6566:DT:H2'	11:AB:6567:DT:H71	2.00	0.41
11:AB:6703:DC:H2'	11:AB:6704:DT:H71	1.99	0.41
11:AB:6709:DG:H1'	11:AB:6710:DT:H5'	2.00	0.41
11:AB:6715:DG:C8	11:AB:6716:DT:H72	2.55	0.41
11:AB:6765:DG:C8	11:AB:6766:DT:H72	2.55	0.41
11:AB:6771:DT:H2'	11:AB:6772:DT:H72	2.02	0.41
11:AB:6889:DT:H2'	11:AB:6890:DT:H71	2.00	0.41
11:AB:7006:DA:H2'	11:AB:7007:DT:H72	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:7020:DT:H1'	11:AB:7021:DC:H5'	2.02	0.41
11:AB:7034:DT:H2'	11:AB:7035:DT:H71	2.00	0.41
11:AB:7055:DT:H2'	11:AB:7056:DT:H71	2.00	0.41
11:AB:7062:DT:H2'	11:AB:7063:DT:H71	2.00	0.41
11:AB:7148:DT:H1'	11:AB:7149:DC:H5'	2.02	0.41
14:B1:11:DT:H2'	14:B1:12:DT:H71	2.00	0.41
16:B3:21:DA:H2'	16:B3:22:DT:H72	2.00	0.41
22:B9:18:DT:H2'	22:B9:19:DT:H71	2.00	0.41
23:BA:25:DT:H2'	23:BA:26:DT:H71	2.00	0.41
33:C9:14:DG:C8	33:C9:15:DT:H72	2.55	0.41
34:CA:17:DG:C8	34:CA:18:DT:H72	2.55	0.41
35:CC:12:DC:H2'	35:CC:13:DT:H71	1.99	0.41
37:D1:31:DG:H2''	37:D1:32:DC:OP2	2.20	0.41
45:DA:9:DG:C8	45:DA:10:DT:H72	2.55	0.41
52:E6:16:DG:H2''	52:E6:17:DC:OP2	2.20	0.41
54:E8:10:DA:H2'	54:E8:11:DT:H72	2.00	0.41
60:F2:30:DT:H2'	60:F2:31:DT:H71	2.00	0.41
62:F5:20:DC:H2'	62:F5:21:DT:H71	1.99	0.41
63:F6:9:DG:H2''	63:F6:10:DC:OP2	2.20	0.41
64:F7:5:DA:H2'	64:F7:6:DT:H72	2.00	0.41
65:F8:8:DT:H1'	87:H8:18:DC:H5'	2.02	0.41
67:FA:19:DC:H2'	67:FA:20:DT:H71	1.99	0.41
80:GD:16:DG:C8	80:GD:17:DT:H72	2.55	0.41
82:H2:49:DA:H2'	82:H2:50:DT:H72	2.00	0.41
83:H3:37:DG:H2''	83:H3:38:DC:OP2	2.20	0.41
85:H6:1:DA:H2'	85:H6:2:DT:H72	2.00	0.41
88:H9:27:DG:H2''	88:H9:28:DC:OP2	2.20	0.41
93:I2:36:DG:C8	93:I2:37:DT:H72	2.55	0.41
93:I2:38:DG:C8	93:I2:39:DT:H72	2.55	0.41
101:IC:7:DA:H2'	101:IC:8:DT:H72	2.00	0.41
101:IC:8:DT:H2'	101:IC:9:DT:H72	2.02	0.41
101:IC:26:DT:H1'	101:IC:27:DC:H5'	2.02	0.41
105:J3:17:DT:H2'	105:J3:18:DT:H71	2.00	0.41
105:J3:18:DT:H2'	105:J3:19:DT:H71	2.00	0.41
109:J8:50:DA:H2'	109:J8:51:DT:H72	2.00	0.41
115:K2:6:DT:H2'	115:K2:7:DT:H71	2.00	0.41
118:K6:9:DG:H2''	118:K6:10:DC:OP2	2.20	0.41
119:K7:37:DT:H2'	119:K7:38:DT:H71	2.00	0.41
123:KC:14:DT:H2'	123:KC:15:DT:H71	2.00	0.41
127:L3:1:DC:H5'	220:UD:23:DT:H1'	2.02	0.41
127:L3:9:DT:H2'	127:L3:10:DT:H72	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
140:M7:1:DT:H1'	140:M7:2:DC:H5'	2.02	0.41
145:MD:11:DT:H1'	145:MD:12:DC:H5'	2.02	0.41
145:MD:21:DT:H1'	145:MD:22:DC:H5'	2.02	0.41
145:MD:34:DT:H2'	145:MD:35:DT:H71	2.00	0.41
149:N6:9:DT:H2'	149:N6:10:DT:H71	2.00	0.41
152:N9:27:DC:H2'	152:N9:28:DT:H71	1.99	0.41
152:N9:41:DG:H1'	152:N9:42:DT:H5'	2.00	0.41
160:O7:8:DG:C8	160:O7:9:DT:H72	2.55	0.41
161:O8:37:DT:H1'	161:O8:38:DC:H5'	2.02	0.41
161:O8:57:DG:H1'	161:O8:58:DT:H5'	2.00	0.41
165:OD:1:DC:H5'	238:X9:17:DT:H1'	2.02	0.41
166:P2:14:DT:H2'	166:P2:15:DT:H71	2.00	0.41
168:P5:11:DT:H2'	168:P5:12:DT:H71	2.00	0.41
177:Q3:9:DC:H2'	177:Q3:10:DT:H71	1.99	0.41
180:Q8:26:DG:H1'	180:Q8:27:DT:H5'	2.00	0.41
182:QA:6:DG:C8	182:QA:7:DT:H72	2.55	0.41
187:R5:40:DT:H1'	187:R5:41:DC:H5'	2.02	0.41
188:R7:3:DG:C8	188:R7:4:DT:H72	2.55	0.41
203:T2:7:DT:H2'	203:T2:8:DT:H71	2.00	0.41
204:T3:12:DT:H1'	204:T3:13:DC:H5'	2.02	0.41
204:T3:33:DT:H2'	204:T3:34:DT:H71	2.00	0.41
204:T3:39:DG:H1'	204:T3:40:DT:H5'	2.00	0.41
209:TA:20:DT:H1'	209:TA:21:DC:H5'	2.02	0.41
210:TC:12:DC:H2'	210:TC:13:DT:H71	1.99	0.41
212:U2:21:DT:H2'	212:U2:22:DT:H71	2.00	0.41
214:U5:17:DG:H2''	214:U5:18:DC:OP2	2.20	0.41
214:U5:19:DT:H2'	214:U5:20:DT:H71	2.00	0.41
214:U5:40:DT:H2'	214:U5:41:DT:H71	2.00	0.41
216:U8:19:DG:H2''	216:U8:20:DC:OP2	2.20	0.41
216:U8:22:DT:H2'	216:U8:23:DT:H71	2.00	0.41
218:UA:2:DT:H2'	218:UA:3:DT:H71	2.01	0.41
221:V2:22:DT:H2'	221:V2:23:DT:H71	2.00	0.41
223:V5:22:DG:H2''	223:V5:23:DC:OP2	2.20	0.41
227:VA:9:DT:H2'	227:VA:10:DT:H71	2.00	0.41
227:VA:20:DG:H2''	227:VA:21:DC:OP2	2.20	0.41
230:W3:45:DT:H1'	230:W3:46:DC:H5'	2.02	0.41
234:W9:1:DG:C8	234:W9:2:DT:H72	2.55	0.41
238:X9:37:DG:C8	238:X9:38:DT:H72	2.55	0.41
5:A5:33:DT:H1'	5:A5:34:DC:H5'	2.02	0.41
7:A7:15:DG:H2''	7:A7:16:DC:OP2	2.20	0.41
7:A7:21:DA:H2'	7:A7:22:DT:H72	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A7:28:DT:H2'	7:A7:29:DT:H72	2.01	0.41
11:AB:54:DG:C8	11:AB:55:DT:H72	2.55	0.41
11:AB:75:DT:H1'	11:AB:76:DC:H5'	2.02	0.41
11:AB:144:DT:H2'	11:AB:145:DT:H71	2.01	0.41
11:AB:145:DT:H1'	11:AB:146:DC:H5'	2.02	0.41
11:AB:165:DT:H2'	11:AB:166:DT:H71	2.01	0.41
11:AB:213:DG:C8	11:AB:214:DT:H72	2.55	0.41
11:AB:274:DA:H1'	11:AB:275:DC:H5'	2.03	0.41
11:AB:386:DG:H2''	11:AB:387:DC:OP2	2.20	0.41
11:AB:511:DT:H1'	11:AB:512:DC:H5'	2.02	0.41
11:AB:520:DT:H1'	11:AB:521:DC:H5'	2.02	0.41
11:AB:590:DG:H2''	11:AB:591:DC:OP2	2.20	0.41
11:AB:714:DG:H1'	11:AB:715:DT:H5'	2.00	0.41
11:AB:1131:DG:H2''	11:AB:1132:DC:OP2	2.20	0.41
11:AB:1302:DT:H2'	11:AB:1303:DT:H71	2.00	0.41
11:AB:1372:DT:H2'	11:AB:1373:DT:H71	2.00	0.41
11:AB:1456:DA:H2'	11:AB:1457:DT:H72	2.00	0.41
11:AB:1569:DT:H2'	11:AB:1570:DT:H71	2.00	0.41
11:AB:1586:DC:H2'	11:AB:1587:DT:H71	1.99	0.41
11:AB:1661:DT:H1'	11:AB:1662:DC:H5'	2.02	0.41
11:AB:1713:DT:H1'	11:AB:1714:DC:H5'	2.02	0.41
11:AB:1758:DA:H2'	11:AB:1759:DT:H72	2.00	0.41
11:AB:1924:DC:H2'	11:AB:1925:DT:H71	1.99	0.41
11:AB:2115:DT:H2'	11:AB:2116:DT:H71	2.00	0.41
11:AB:2176:DC:H2'	11:AB:2177:DT:H71	1.99	0.41
11:AB:2230:DC:H2'	11:AB:2231:DT:H71	1.99	0.41
11:AB:2251:DC:H2'	11:AB:2252:DT:H71	1.99	0.41
11:AB:2363:DT:H2'	11:AB:2364:DT:H72	2.02	0.41
11:AB:2397:DT:H1'	11:AB:2398:DC:H5'	2.02	0.41
11:AB:2438:DT:H2'	11:AB:2439:DT:H71	2.00	0.41
11:AB:2531:DT:H2'	11:AB:2532:DT:H71	2.01	0.41
11:AB:2553:DT:H1'	11:AB:2554:DC:H5'	2.02	0.41
11:AB:2572:DA:H2'	11:AB:2573:DT:H72	2.00	0.41
11:AB:2612:DT:H1'	11:AB:2613:DC:H5'	2.02	0.41
11:AB:2683:DT:H1'	11:AB:2684:DC:H5'	2.02	0.41
11:AB:2707:DT:H2'	11:AB:2708:DT:H71	2.00	0.41
11:AB:2848:DT:H2'	11:AB:2849:DT:H71	2.00	0.41
11:AB:3192:DT:H2'	11:AB:3193:DT:H71	2.00	0.41
11:AB:3451:DT:H1'	11:AB:3452:DC:H5'	2.02	0.41
11:AB:3500:DC:H2'	11:AB:3501:DT:H71	1.99	0.41
11:AB:3526:DT:H2'	11:AB:3527:DT:H72	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3790:DG:H2''	11:AB:4463:DC:OP1	2.20	0.41
11:AB:3833:DC:H2'	11:AB:3834:DT:H71	1.99	0.41
11:AB:3842:DG:C8	11:AB:3843:DT:H72	2.55	0.41
11:AB:3982:DA:H2'	11:AB:3983:DT:H72	2.00	0.41
11:AB:4011:DT:H2'	11:AB:4348:DT:H71	2.00	0.41
11:AB:4101:DT:H2'	11:AB:4102:DT:H71	2.00	0.41
11:AB:4192:DT:H1'	11:AB:4193:DC:H5'	2.02	0.41
11:AB:4235:DT:H2'	11:AB:4236:DT:H71	2.00	0.41
11:AB:4460:DT:H1'	11:AB:4461:DC:H5'	2.02	0.41
11:AB:4797:DT:H2'	11:AB:4798:DT:H71	2.00	0.41
11:AB:5281:DT:H1'	11:AB:5282:DC:H5'	2.02	0.41
11:AB:5317:DT:H2'	11:AB:5318:DT:H72	2.02	0.41
11:AB:5631:DC:H2'	11:AB:5632:DT:H71	1.99	0.41
11:AB:5912:DA:H2'	11:AB:5913:DT:H72	2.00	0.41
11:AB:5942:DG:C8	11:AB:5943:DT:H72	2.55	0.41
11:AB:6039:DT:H1'	11:AB:6040:DC:H5'	2.02	0.41
11:AB:6104:DT:H1'	11:AB:6105:DC:H5'	2.02	0.41
11:AB:6138:DT:H1'	11:AB:6139:DC:H5'	2.02	0.41
11:AB:6175:DT:H2'	11:AB:6176:DT:H71	2.00	0.41
11:AB:6181:DT:H1'	11:AB:6182:DC:H5'	2.02	0.41
11:AB:6382:DT:H1'	11:AB:6383:DC:H5'	2.02	0.41
11:AB:6545:DA:H2'	11:AB:6546:DT:H72	2.00	0.41
11:AB:6587:DT:H2'	11:AB:6588:DT:H71	2.00	0.41
11:AB:6657:DT:H2'	11:AB:6658:DT:H71	2.00	0.41
11:AB:6689:DT:H1'	11:AB:6690:DC:H5'	2.02	0.41
11:AB:6895:DT:H2'	11:AB:6896:DT:H71	2.00	0.41
11:AB:7081:DG:C8	11:AB:7082:DT:H72	2.55	0.41
12:AC:14:DT:H2'	12:AC:15:DT:H71	2.00	0.41
24:BC:32:DT:H2'	24:BC:33:DT:H71	2.00	0.41
39:D3:22:DT:H2'	39:D3:23:DT:H71	2.00	0.41
42:D7:5:DT:H2'	42:D7:6:DT:H71	2.00	0.41
48:E1:1:DT:H1'	48:E1:2:DC:H5'	2.01	0.41
54:E8:11:DT:H2'	54:E8:12:DT:H71	2.01	0.41
55:E9:24:DT:H1'	55:E9:25:DC:H5'	2.02	0.41
56:EA:17:DT:H1'	56:EA:18:DC:H5'	2.02	0.41
62:F5:8:DT:H2'	62:F5:9:DT:H71	2.00	0.41
62:F5:43:DC:H2'	62:F5:44:DT:H71	1.99	0.41
94:I3:13:DT:H1'	94:I3:14:DC:H5'	2.02	0.41
94:I3:47:DG:H2''	94:I3:48:DC:OP2	2.20	0.41
98:I8:25:DG:H2''	98:I8:26:DC:OP2	2.20	0.41
98:I8:42:DT:H2'	98:I8:43:DT:H71	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
111:JA:10:DG:H1'	111:JA:11:DT:H5'	2.00	0.41
112:JC:19:DT:H2'	112:JC:20:DT:H71	2.00	0.41
114:K1:40:DT:H2'	114:K1:41:DT:H71	2.00	0.41
122:KA:3:DG:H1'	122:KA:4:DT:H5'	2.00	0.41
123:KC:12:DG:H1'	123:KC:13:DT:H5'	2.00	0.41
127:L3:10:DT:H1'	127:L3:11:DC:H5'	2.02	0.41
128:L5:10:DG:H2''	128:L5:11:DC:OP2	2.20	0.41
129:L6:6:DG:H1'	129:L6:7:DT:H5'	2.00	0.41
131:L8:6:DT:H1'	131:L8:7:DC:H5'	2.02	0.41
131:L8:27:DG:C8	131:L8:28:DT:H72	2.55	0.41
137:M3:15:DA:H2'	137:M3:16:DT:H72	2.00	0.41
138:M5:12:DT:H1'	138:M5:13:DC:H5'	2.02	0.41
142:M9:17:DT:H1'	142:M9:18:DC:H5'	2.02	0.41
144:MC:10:DG:H1'	144:MC:11:DT:H5'	2.00	0.41
145:MD:3:DT:H1'	145:MD:4:DC:H5'	2.02	0.41
149:N6:38:DT:H1'	149:N6:39:DC:H5'	2.02	0.41
161:O8:36:DG:H1'	161:O8:37:DT:H5'	2.00	0.41
161:O8:42:DT:H1'	161:O8:43:DC:H5'	2.02	0.41
167:P3:11:DA:H2'	167:P3:12:DT:H72	2.00	0.41
167:P3:12:DT:H2'	167:P3:13:DT:H71	2.01	0.41
176:Q2:10:DT:H1'	176:Q2:11:DC:H5'	2.02	0.41
184:QD:22:DT:H1'	184:QD:23:DC:H5'	2.02	0.41
190:R9:37:DT:H2'	190:R9:38:DT:H71	2.00	0.41
193:RD:18:DT:H1'	193:RD:19:DC:H5'	2.02	0.41
197:S7:19:DT:H1'	197:S7:20:DC:H5'	2.01	0.41
212:U2:18:DT:H1'	212:U2:19:DC:H5'	2.02	0.41
222:V3:5:DA:H2'	222:V3:6:DT:H72	2.00	0.41
235:WD:21:DT:H1'	235:WD:22:DC:H5'	2.02	0.41
238:X9:40:DT:H2'	238:X9:41:DT:H71	2.01	0.41
5:A5:19:DG:C8	5:A5:20:DT:H72	2.55	0.41
7:A7:5:DT:H1'	7:A7:6:DC:H5'	2.02	0.41
11:AB:33:DT:H1'	11:AB:34:DC:H5'	2.02	0.41
11:AB:91:DC:H2'	11:AB:92:DT:H71	1.99	0.41
11:AB:114:DG:H2''	11:AB:115:DC:OP2	2.19	0.41
11:AB:166:DT:H1'	11:AB:167:DC:H5'	2.02	0.41
11:AB:204:DG:H2''	11:AB:205:DC:OP2	2.20	0.41
11:AB:308:DC:H2'	11:AB:309:DT:H71	1.99	0.41
11:AB:548:DG:H2''	11:AB:549:DC:OP2	2.19	0.41
11:AB:744:DT:H1'	11:AB:6859:DC:H5'	2.02	0.41
11:AB:757:DT:H1'	11:AB:758:DC:H5'	2.02	0.41
11:AB:836:DT:H1'	11:AB:837:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1184:DT:H1'	11:AB:1185:DC:H5'	2.02	0.41
11:AB:1292:DA:H1'	11:AB:1293:DC:H5'	2.03	0.41
11:AB:1510:DT:H1'	11:AB:1511:DC:H5'	2.02	0.41
11:AB:1585:DT:H1'	11:AB:1586:DC:H5'	2.02	0.41
11:AB:1634:DG:H1'	11:AB:1635:DT:H5'	2.00	0.41
11:AB:1670:DC:H2'	11:AB:1671:DT:H71	1.99	0.41
11:AB:1692:DT:H1'	11:AB:1693:DC:H5'	2.02	0.41
11:AB:1780:DT:H2'	11:AB:1781:DT:H71	2.01	0.41
11:AB:1813:DT:H1'	11:AB:1814:DC:H5'	2.02	0.41
11:AB:1886:DT:H1'	11:AB:1887:DC:H5'	2.01	0.41
11:AB:1894:DT:H1'	11:AB:1895:DC:H5'	2.02	0.41
11:AB:2015:DC:H2'	11:AB:2016:DT:H71	1.99	0.41
11:AB:2099:DT:H1'	11:AB:2100:DC:H5'	2.02	0.41
11:AB:2181:DT:H2'	11:AB:2182:DT:H72	2.02	0.41
11:AB:2250:DT:H1'	11:AB:2251:DC:H5'	2.02	0.41
11:AB:2342:DT:H2'	11:AB:2343:DT:H72	2.02	0.41
11:AB:2453:DT:H1'	11:AB:2454:DC:H5'	2.01	0.41
11:AB:2460:DT:H2'	11:AB:2461:DT:H71	2.01	0.41
11:AB:3031:DT:H2'	11:AB:3032:DT:H71	2.00	0.41
11:AB:3075:DT:H1'	11:AB:3076:DC:H5'	2.02	0.41
11:AB:3210:DT:H1'	11:AB:3211:DC:H5'	2.02	0.41
11:AB:3318:DT:H1'	11:AB:3319:DC:H5'	2.02	0.41
11:AB:3354:DT:H2'	11:AB:3355:DT:H71	2.00	0.41
11:AB:3458:DG:H1'	11:AB:3459:DT:H5'	2.01	0.41
11:AB:3505:DT:H2'	11:AB:3506:DT:H72	2.02	0.41
11:AB:3640:DT:H1'	11:AB:3641:DC:H5'	2.02	0.41
11:AB:3732:DT:H1'	11:AB:3733:DC:H5'	2.02	0.41
11:AB:3826:DT:H1'	11:AB:3827:DC:H5'	2.02	0.41
11:AB:3920:DT:H1'	11:AB:3921:DC:H5'	2.02	0.41
11:AB:4012:DT:H1'	11:AB:4013:DC:H5'	2.02	0.41
11:AB:4152:DT:H1'	11:AB:4153:DC:H5'	2.02	0.41
11:AB:4173:DT:H1'	11:AB:4174:DC:H5'	2.02	0.41
11:AB:4189:DC:H2'	11:AB:4190:DT:H71	1.99	0.41
11:AB:4284:DG:C8	11:AB:4285:DT:H72	2.55	0.41
11:AB:4286:DT:H1'	11:AB:4287:DC:H5'	2.02	0.41
11:AB:4346:DT:H1'	11:AB:4347:DC:H5'	2.02	0.41
11:AB:4835:DT:H1'	11:AB:4836:DC:H5'	2.02	0.41
11:AB:4868:DG:C8	11:AB:4869:DT:H72	2.55	0.41
11:AB:4918:DT:H1'	11:AB:4919:DC:H5'	2.02	0.41
11:AB:5310:DA:H1'	11:AB:5311:DC:H5'	2.03	0.41
11:AB:5787:DT:H2'	11:AB:5788:DT:H71	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5862:DT:H1'	11:AB:5863:DC:H5'	2.02	0.41
11:AB:6010:DT:H2'	11:AB:6011:DT:H71	2.00	0.41
11:AB:6156:DT:H1'	11:AB:6157:DC:H5'	2.02	0.41
11:AB:6192:DT:H1'	11:AB:6193:DC:H5'	2.02	0.41
11:AB:6383:DC:H2'	11:AB:6384:DT:H71	1.99	0.41
11:AB:6484:DT:H1'	11:AB:6485:DC:H5'	2.02	0.41
11:AB:6534:DT:H1'	11:AB:6535:DC:H5'	2.02	0.41
11:AB:6570:DT:H1'	11:AB:6571:DC:H5'	2.02	0.41
11:AB:6687:DT:H1'	11:AB:6688:DC:H5'	2.02	0.41
11:AB:6722:DT:H1'	11:AB:6723:DC:H5'	2.02	0.41
11:AB:6995:DT:H1'	11:AB:6996:DC:H5'	2.02	0.41
11:AB:7238:DT:H1'	11:AB:7239:DC:H5'	2.02	0.41
23:BA:28:DT:H2'	23:BA:29:DT:H72	2.02	0.41
37:D1:26:DC:H2'	37:D1:27:DT:H71	1.99	0.41
51:E5:21:DT:H2'	51:E5:22:DT:H72	2.02	0.41
59:F1:6:DT:H1'	59:F1:7:DC:H5'	2.02	0.41
62:F5:42:DT:H1'	62:F5:43:DC:H5'	2.02	0.41
82:H2:25:DC:H2'	82:H2:26:DT:H71	1.99	0.41
85:H6:34:DA:H1'	85:H6:35:DC:H5'	2.03	0.41
102:ID:33:DT:H1'	114:K1:1:DC:H5'	2.02	0.41
107:J6:6:DT:H1'	107:J6:7:DC:H5'	2.02	0.41
119:K7:7:DT:H1'	119:K7:8:DC:H5'	2.02	0.41
133:LA:14:DT:H1'	133:LA:15:DC:H5'	2.02	0.41
135:LD:16:DT:H1'	135:LD:17:DC:H5'	2.02	0.41
137:M3:26:DG:C8	137:M3:27:DT:H72	2.55	0.41
164:OC:9:DA:H1'	164:OC:10:DC:H5'	2.03	0.41
171:P8:8:DT:H2'	171:P8:9:DT:H71	2.00	0.41
173:PA:34:DA:H1'	173:PA:35:DC:H5'	2.03	0.41
178:Q5:41:DA:H1'	178:Q5:42:DC:H5'	2.03	0.41
187:R5:10:DG:H2''	187:R5:11:DC:OP2	2.20	0.41
190:R9:5:DT:H2'	190:R9:6:DT:H72	2.02	0.41
190:R9:23:DG:C8	190:R9:24:DT:H72	2.55	0.41
194:S2:10:DA:H1'	194:S2:11:DC:H5'	2.03	0.41
202:SD:22:DT:H1'	202:SD:23:DC:H5'	2.02	0.41
204:T3:40:DT:H1'	204:T3:41:DC:H5'	2.02	0.41
208:T9:14:DT:H1'	208:T9:15:DC:H5'	2.02	0.41
209:TA:19:DT:H2'	209:TA:20:DT:H72	2.02	0.41
222:V3:6:DT:H2'	222:V3:7:DT:H71	2.01	0.41
223:V5:11:DC:H2'	223:V5:12:DT:H71	1.99	0.41
226:V9:12:DT:H1'	226:V9:13:DC:H5'	2.01	0.41
228:VC:17:DT:H1'	228:VC:18:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
232:W7:16:DT:H1'	232:W7:17:DC:H5'	2.02	0.41
1:A1:30:DT:H1'	1:A1:31:DC:H5'	2.02	0.41
3:A3:17:DG:C8	3:A3:18:DT:H72	2.55	0.41
11:AB:585:DT:H1'	11:AB:586:DC:H5'	2.02	0.41
11:AB:625:DT:H1'	11:AB:626:DC:H5'	2.02	0.41
11:AB:704:DG:C8	11:AB:705:DT:H72	2.55	0.41
11:AB:822:DT:H1'	11:AB:823:DC:H5'	2.02	0.41
11:AB:847:DT:H1'	11:AB:848:DC:H5'	2.02	0.41
11:AB:874:DG:C8	11:AB:875:DT:H72	2.55	0.41
11:AB:895:DG:C8	11:AB:896:DT:H72	2.55	0.41
11:AB:901:DG:H2''	11:AB:902:DC:OP2	2.19	0.41
11:AB:916:DG:C8	11:AB:917:DT:H72	2.55	0.41
11:AB:976:DT:H2'	11:AB:977:DT:H72	2.02	0.41
11:AB:1116:DG:H2''	11:AB:1117:DA:OP2	2.21	0.41
11:AB:1225:DT:H1'	11:AB:1226:DC:H5'	2.02	0.41
11:AB:1242:DT:H1'	11:AB:1243:DC:H5'	2.02	0.41
11:AB:1344:DT:H2'	11:AB:1345:DT:H71	2.01	0.41
11:AB:1527:DG:C8	11:AB:1528:DT:H72	2.55	0.41
11:AB:1871:DT:H1'	11:AB:1872:DC:H5'	2.01	0.41
11:AB:1902:DG:C8	11:AB:1903:DT:H72	2.55	0.41
11:AB:1984:DG:C8	11:AB:1985:DT:H72	2.55	0.41
11:AB:2206:DG:C8	11:AB:2207:DT:H72	2.55	0.41
11:AB:2519:DT:H2'	11:AB:2520:DT:H72	2.02	0.41
11:AB:2787:DT:H1'	11:AB:2788:DC:H5'	2.02	0.41
11:AB:2806:DG:C8	11:AB:2807:DT:H72	2.55	0.41
11:AB:2910:DG:H2''	11:AB:2911:DC:OP2	2.19	0.41
11:AB:3147:DT:H2'	11:AB:3148:DT:H72	2.02	0.41
11:AB:3300:DT:H1'	11:AB:3301:DC:H5'	2.02	0.41
11:AB:3330:DT:H2'	11:AB:3331:DT:H72	2.02	0.41
11:AB:3559:DT:H1'	11:AB:3560:DC:H5'	2.02	0.41
11:AB:3644:DT:H1'	11:AB:3645:DC:H5'	2.02	0.41
11:AB:3829:DT:H1'	11:AB:3830:DC:H5'	2.02	0.41
11:AB:3948:DT:H2'	11:AB:3949:DT:H71	2.00	0.41
11:AB:4378:DA:H1'	11:AB:4379:DC:H5'	2.03	0.41
11:AB:4433:DT:H2'	11:AB:4434:DT:H72	2.02	0.41
11:AB:4641:DT:H1'	11:AB:4642:DC:H5'	2.02	0.41
11:AB:4764:DA:H1'	11:AB:4765:DC:H5'	2.03	0.41
11:AB:5029:DG:C8	11:AB:5030:DT:H72	2.55	0.41
11:AB:5099:DG:C8	11:AB:5100:DT:H72	2.55	0.41
11:AB:5386:DT:H2'	11:AB:5387:DT:H72	2.02	0.41
11:AB:5545:DT:H1'	11:AB:5546:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6100:DG:C8	11:AB:6101:DT:H72	2.55	0.41
11:AB:6120:DG:C8	11:AB:6121:DT:H72	2.55	0.41
11:AB:6133:DT:H1'	11:AB:6134:DC:H5'	2.02	0.41
11:AB:6154:DG:H2''	11:AB:6155:DC:OP2	2.19	0.41
11:AB:6189:DG:H2''	11:AB:6190:DC:OP2	2.19	0.41
11:AB:6370:DA:H1'	11:AB:6371:DC:H5'	2.03	0.41
11:AB:6391:DA:H1'	11:AB:6392:DC:H5'	2.03	0.41
11:AB:6417:DT:H2'	11:AB:6418:DT:H72	2.02	0.41
11:AB:6429:DT:H1'	11:AB:6430:DC:H5'	2.02	0.41
11:AB:6454:DG:H2''	11:AB:6455:DA:OP2	2.21	0.41
11:AB:6583:DT:H2'	11:AB:6584:DT:H72	2.02	0.41
11:AB:6644:DT:H1'	11:AB:6645:DC:H5'	2.02	0.41
11:AB:6707:DT:H1'	11:AB:6708:DC:H5'	2.02	0.41
11:AB:6725:DT:H1'	11:AB:6726:DC:H5'	2.02	0.41
11:AB:6744:DC:H2'	11:AB:6745:DT:H71	1.99	0.41
11:AB:6768:DG:H2''	11:AB:6769:DA:OP2	2.21	0.41
11:AB:6785:DT:H1'	11:AB:6786:DC:H5'	2.02	0.41
11:AB:6865:DT:H1'	11:AB:6866:DC:H5'	2.02	0.41
11:AB:6880:DT:H1'	11:AB:6881:DC:H5'	2.02	0.41
11:AB:6912:DG:H1'	11:AB:6913:DT:H5'	2.00	0.41
11:AB:6923:DG:C8	11:AB:6924:DT:H72	2.55	0.41
11:AB:7140:DT:H1'	11:AB:7141:DC:H5'	2.02	0.41
13:AD:8:DT:H1'	13:AD:9:DC:H5'	2.02	0.41
15:B2:20:DG:H2''	15:B2:21:DC:OP2	2.19	0.41
20:B7:13:DG:H2''	97:I7:28:DC:OP1	2.19	0.41
37:D1:20:DA:H1'	37:D1:21:DC:H5'	2.03	0.41
43:D8:30:DT:H1'	43:D8:31:DC:H5'	2.02	0.41
45:DA:6:DT:H1'	45:DA:7:DC:H5'	2.02	0.41
46:DC:12:DA:H1'	46:DC:13:DC:H5'	2.03	0.41
49:E2:17:DG:C8	49:E2:18:DT:H72	2.55	0.41
53:E7:2:DT:H2'	53:E7:3:DT:H72	2.02	0.41
54:E8:31:DT:H2'	54:E8:32:DT:H72	2.02	0.41
56:EA:10:DG:C8	56:EA:11:DT:H72	2.55	0.41
69:FD:26:DG:C8	69:FD:27:DT:H72	2.55	0.41
83:H3:26:DG:C8	83:H3:27:DT:H72	2.55	0.41
91:HD:27:DT:H1'	91:HD:28:DC:H5'	2.02	0.41
97:I7:19:DA:H1'	97:I7:20:DC:H5'	2.03	0.41
98:I8:11:DT:H1'	98:I8:12:DC:H5'	2.02	0.41
99:I9:15:DT:H1'	99:I9:16:DC:H5'	2.02	0.41
101:IC:21:DA:H1'	101:IC:22:DC:H5'	2.03	0.41
103:J1:6:DA:H1'	103:J1:7:DC:H5'	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
106:J5:22:DA:H1'	106:J5:23:DC:H5'	2.03	0.41
107:J6:1:DC:H5'	230:W3:28:DT:H1'	2.02	0.41
108:J7:41:DA:H1'	108:J7:42:DC:H5'	2.03	0.41
111:JA:8:DA:H1'	111:JA:9:DC:H5'	2.03	0.41
127:L3:18:DT:H1'	127:L3:19:DC:H5'	2.02	0.41
128:L5:2:DT:H1'	128:L5:3:DC:H5'	2.02	0.41
130:L7:31:DT:H1'	130:L7:32:DC:H5'	2.02	0.41
144:MC:18:DT:H1'	144:MC:19:DC:H5'	2.02	0.41
149:N6:45:DA:H1'	149:N6:46:DC:H5'	2.03	0.41
152:N9:4:DG:C8	152:N9:5:DT:H72	2.55	0.41
152:N9:38:DG:H2''	165:OD:50:DC:OP1	2.19	0.41
156:O2:13:DT:H1'	156:O2:14:DC:H5'	2.02	0.41
160:O7:44:DT:H1'	160:O7:45:DC:H5'	2.02	0.41
171:P8:6:DT:H1'	171:P8:7:DC:H5'	2.02	0.41
171:P8:26:DT:H1'	171:P8:27:DC:H5'	2.02	0.41
179:Q7:7:DG:H2''	179:Q7:8:DA:O5'	2.21	0.41
181:Q9:36:DT:H1'	181:Q9:37:DC:H5'	2.02	0.41
182:QA:22:DA:H1'	182:QA:23:DC:H5'	2.03	0.41
187:R5:30:DT:H1'	187:R5:31:DC:H5'	2.02	0.41
190:R9:19:DT:H2'	190:R9:20:DT:H72	2.02	0.41
190:R9:40:DA:H1'	190:R9:41:DC:H5'	2.03	0.41
191:RA:24:DT:H1'	191:RA:25:DC:H5'	2.02	0.41
196:S5:29:DG:C8	196:S5:30:DT:H72	2.55	0.41
207:T8:15:DA:H1'	207:T8:16:DC:H5'	2.03	0.41
207:T8:17:DC:H5'	216:U8:10:DT:H1'	2.02	0.41
218:UA:8:DG:C8	218:UA:9:DT:H72	2.55	0.41
219:UC:13:DG:H2''	219:UC:14:DA:OP2	2.21	0.41
238:X9:11:DT:H1'	238:X9:12:DC:H5'	2.02	0.41
1:A1:20:DC:H5'	32:C8:31:DA:H1'	2.03	0.41
2:A2:26:DG:H2'	2:A2:27:DT:H71	2.02	0.41
7:A7:20:DT:H1'	130:L7:22:DC:H5'	2.02	0.41
9:A9:6:DG:H2''	9:A9:7:DA:OP2	2.21	0.41
11:AB:9:DG:C8	11:AB:10:DT:H72	2.55	0.41
11:AB:64:DG:C8	11:AB:65:DT:H72	2.55	0.41
11:AB:150:DG:C8	11:AB:151:DT:H72	2.55	0.41
11:AB:188:DT:H2'	11:AB:189:DT:H72	2.02	0.41
11:AB:197:DT:H1'	11:AB:198:DC:H5'	2.02	0.41
11:AB:289:DG:C8	11:AB:290:DT:H72	2.55	0.41
11:AB:346:DG:C8	11:AB:347:DT:H72	2.55	0.41
11:AB:880:DG:C8	11:AB:881:DT:H72	2.55	0.41
11:AB:888:DT:H1'	11:AB:889:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1017:DA:H1'	11:AB:1018:DC:H5'	2.03	0.41
11:AB:1105:DG:H2'	11:AB:1106:DT:H71	2.02	0.41
11:AB:1157:DT:H2'	11:AB:1158:DT:H72	2.02	0.41
11:AB:1189:DT:H1'	11:AB:1190:DC:H5'	2.02	0.41
11:AB:1246:DT:H1'	11:AB:1247:DC:H5'	2.02	0.41
11:AB:1435:DT:H1'	11:AB:1436:DC:H5'	2.02	0.41
11:AB:1443:DG:H2'	11:AB:1444:DT:H71	2.02	0.41
11:AB:1523:DT:H2'	11:AB:1524:DT:H72	2.02	0.41
11:AB:1654:DT:H1'	11:AB:1655:DC:H5'	2.02	0.41
11:AB:1953:DT:H1'	11:AB:1954:DC:H5'	2.02	0.41
11:AB:1992:DT:H1'	11:AB:1993:DC:H5'	2.02	0.41
11:AB:2135:DT:H1'	11:AB:2136:DC:H5'	2.02	0.41
11:AB:2157:DG:C8	11:AB:2158:DT:H72	2.55	0.41
11:AB:2265:DT:H1'	11:AB:2266:DC:H5'	2.02	0.41
11:AB:2292:DG:C8	11:AB:2293:DT:H72	2.55	0.41
11:AB:2373:DG:H2''	11:AB:2374:DC:OP2	2.19	0.41
11:AB:2379:DG:H2''	11:AB:2380:DA:OP2	2.21	0.41
11:AB:2420:DT:H2'	11:AB:2421:DT:H72	2.02	0.41
11:AB:2441:DT:H2'	11:AB:2442:DT:H72	2.02	0.41
11:AB:2480:DT:H1'	11:AB:2481:DC:H5'	2.02	0.41
11:AB:2628:DG:H2''	11:AB:2629:DA:OP2	2.21	0.41
11:AB:2682:DT:H2'	11:AB:2683:DT:H72	2.02	0.41
11:AB:2691:DT:H1'	11:AB:2692:DC:H5'	2.02	0.41
11:AB:2754:DG:H2''	11:AB:2755:DA:OP2	2.21	0.41
11:AB:2761:DG:C8	11:AB:2762:DT:H72	2.55	0.41
11:AB:2853:DT:H1'	11:AB:2854:DC:H5'	2.02	0.41
11:AB:2857:DG:C8	11:AB:2858:DT:H72	2.55	0.41
11:AB:2991:DT:H1'	11:AB:2992:DC:H5'	2.02	0.41
11:AB:3066:DG:H2''	11:AB:3067:DA:O5'	2.21	0.41
11:AB:3236:DT:H1'	11:AB:3237:DC:H5'	2.02	0.41
11:AB:3301:DC:H2'	11:AB:3302:DT:H71	1.99	0.41
11:AB:3342:DT:H1'	11:AB:3343:DC:H5'	2.02	0.41
11:AB:3361:DG:C8	11:AB:3362:DT:H72	2.55	0.41
11:AB:3373:DA:H1'	11:AB:3374:DC:H5'	2.03	0.41
11:AB:3411:DT:H1'	11:AB:3412:DC:H5'	2.02	0.41
11:AB:3511:DT:H1'	11:AB:3512:DC:H5'	2.02	0.41
11:AB:3625:DT:H1'	11:AB:3626:DC:H5'	2.02	0.41
11:AB:3680:DG:C8	11:AB:3681:DT:H72	2.55	0.41
11:AB:4006:DT:H1'	11:AB:4007:DC:H5'	2.02	0.41
11:AB:4631:DA:H1'	11:AB:4632:DC:H5'	2.03	0.41
11:AB:4645:DG:H2''	11:AB:4646:DA:OP2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4832:DG:H2''	11:AB:4833:DA:O5'	2.21	0.41
11:AB:4837:DG:H2''	11:AB:4838:DA:O5'	2.21	0.41
11:AB:4887:DA:H1'	11:AB:4888:DC:H5'	2.03	0.41
11:AB:5077:DT:H1'	11:AB:5078:DC:H5'	2.02	0.41
11:AB:5100:DT:H1'	11:AB:5101:DC:H5'	2.01	0.41
11:AB:5212:DC:H2'	11:AB:5213:DT:H71	1.99	0.41
11:AB:5603:DA:H1'	11:AB:5604:DC:H5'	2.03	0.41
11:AB:5683:DG:C8	11:AB:5684:DT:H72	2.55	0.41
11:AB:6621:DG:C8	11:AB:6622:DT:H72	2.55	0.41
11:AB:6861:DT:H1'	11:AB:6862:DC:H5'	2.02	0.41
11:AB:6910:DT:H1'	11:AB:6911:DC:H5'	2.02	0.41
11:AB:6979:DT:H1'	11:AB:6980:DC:H5'	2.02	0.41
11:AB:6992:DG:C8	11:AB:6993:DT:H72	2.55	0.41
11:AB:7025:DG:H2''	11:AB:7026:DA:OP2	2.21	0.41
11:AB:7110:DG:H2''	11:AB:7111:DA:OP2	2.21	0.41
11:AB:7119:DT:H1'	11:AB:7120:DC:H5'	2.02	0.41
11:AB:7167:DT:H1'	11:AB:7168:DC:H5'	2.02	0.41
11:AB:7184:DT:H2'	11:AB:7185:DT:H72	2.02	0.41
14:B1:36:DA:OP1	94:I3:59:DG:H2''	2.21	0.41
15:B2:7:DA:H1'	15:B2:8:DC:H5'	2.03	0.41
16:B3:13:DA:H1'	152:N9:25:DC:H5'	2.03	0.41
16:B3:14:DT:H72	152:N9:24:DG:C8	2.55	0.41
17:B4:20:DC:H2'	17:B4:21:DT:H71	1.99	0.41
31:C7:32:DA:H1'	31:C7:33:DC:H5'	2.03	0.41
35:CC:9:DA:H1'	35:CC:10:DC:H5'	2.03	0.41
36:CD:25:DT:H1'	36:CD:26:DC:H5'	2.02	0.41
45:DA:24:DT:H1'	45:DA:25:DC:H5'	2.02	0.41
47:DD:41:DG:H2''	47:DD:42:DC:OP2	2.19	0.41
63:F6:17:DG:C8	63:F6:18:DT:H72	2.55	0.41
67:FA:15:DG:C8	67:FA:16:DT:H72	2.55	0.41
77:G9:6:DT:H71	156:O2:56:DC:H2'	1.99	0.41
82:H2:17:DT:H1'	82:H2:18:DC:H5'	2.02	0.41
84:H5:40:DG:H2''	178:Q5:1:DA:OP1	2.21	0.41
87:H8:23:DA:H1'	87:H8:24:DC:H5'	2.03	0.41
93:I2:41:DG:H2''	93:I2:42:DA:OP2	2.21	0.41
93:I2:47:DT:H1'	93:I2:48:DC:H5'	2.02	0.41
103:J1:16:DT:H1'	103:J1:17:DC:H5'	2.02	0.41
104:J2:29:DC:H5'	206:T7:17:DA:H1'	2.03	0.41
109:J8:42:DG:H2''	109:J8:43:DC:OP2	2.19	0.41
122:KA:30:DT:H1'	122:KA:31:DC:H5'	2.02	0.41
129:L6:20:DT:H1'	129:L6:21:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
130:L7:24:DT:H1'	130:L7:25:DC:H5'	2.02	0.41
134:LC:20:DT:H1'	134:LC:21:DC:H5'	2.02	0.41
137:M3:28:DT:H1'	137:M3:29:DC:H5'	2.02	0.41
141:M8:15:DG:H2''	141:M8:16:DA:OP2	2.21	0.41
144:MC:15:DT:H2'	144:MC:16:DT:H71	2.00	0.41
147:N3:28:DT:H1'	204:T3:15:DC:H5'	2.02	0.41
153:NA:22:DG:H2''	153:NA:23:DA:OP2	2.21	0.41
159:O6:1:DT:H2'	159:O6:2:DT:H72	2.02	0.41
164:OC:5:DT:H1'	164:OC:6:DC:H5'	2.02	0.41
175:PD:14:DT:H2'	175:PD:15:DT:H72	2.02	0.41
177:Q3:7:DA:H1'	177:Q3:8:DC:H5'	2.03	0.41
185:R2:1:DT:H2'	185:R2:2:DT:H72	2.02	0.41
186:R3:13:DG:H2''	204:T3:8:DC:OP1	2.19	0.41
187:R5:27:DG:H2''	187:R5:28:DA:OP2	2.21	0.41
194:S2:4:DG:C8	198:S8:25:DT:H72	2.55	0.41
195:S3:7:DG:H2''	195:S3:8:DC:OP2	2.19	0.41
197:S7:23:DG:H2''	197:S7:24:DA:OP2	2.21	0.41
205:T5:15:DA:H1'	205:T5:16:DC:H5'	2.03	0.41
213:U3:21:DT:H1'	213:U3:22:DC:H5'	2.02	0.41
220:UD:5:DT:H1'	220:UD:6:DC:H5'	2.02	0.41
232:W7:6:DG:H2''	232:W7:7:DA:OP2	2.21	0.41
235:WD:7:DA:H1'	235:WD:8:DC:H5'	2.03	0.41
236:X5:9:DG:H2''	236:X5:10:DA:OP2	2.21	0.41
1:A1:6:DA:H1'	1:A1:7:DC:H5'	2.03	0.41
1:A1:51:DT:H1'	1:A1:52:DC:H5'	2.02	0.41
3:A3:11:DT:H1'	3:A3:12:DC:H5'	2.02	0.41
5:A5:1:DT:H2'	5:A5:2:DT:H72	2.02	0.41
5:A5:28:DA:H1'	178:Q5:8:DC:H5'	2.03	0.41
6:A6:23:DG:C8	6:A6:24:DT:H72	2.55	0.41
10:AA:7:DT:H1'	10:AA:8:DC:H5'	2.02	0.41
10:AA:9:DA:H1'	10:AA:10:DC:H5'	2.03	0.41
11:AB:80:DT:H1'	11:AB:81:DC:H5'	2.02	0.41
11:AB:116:DT:H1'	11:AB:117:DC:H5'	2.02	0.41
11:AB:180:DG:C8	11:AB:181:DT:H72	2.55	0.41
11:AB:262:DT:H1'	11:AB:263:DC:H5'	2.02	0.41
11:AB:270:DG:H2''	11:AB:271:DA:OP2	2.21	0.41
11:AB:273:DG:H2''	11:AB:274:DA:OP2	2.21	0.41
11:AB:303:DG:H2''	11:AB:304:DA:OP2	2.21	0.41
11:AB:310:DG:C8	11:AB:311:DT:H72	2.55	0.41
11:AB:448:DC:H2'	11:AB:449:DT:H71	1.99	0.41
11:AB:526:DG:H2''	11:AB:527:DC:OP2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:595:DT:H2'	11:AB:596:DT:H72	2.02	0.41
11:AB:600:DA:H1'	11:AB:601:DC:H5'	2.03	0.41
11:AB:604:DT:H1'	11:AB:605:DC:H5'	2.02	0.41
11:AB:608:DG:C8	11:AB:609:DT:H72	2.55	0.41
11:AB:657:DA:H1'	11:AB:658:DC:H5'	2.03	0.41
11:AB:663:DA:H1'	11:AB:664:DC:H5'	2.03	0.41
11:AB:678:DA:H1'	11:AB:679:DC:H5'	2.03	0.41
11:AB:693:DA:H1'	11:AB:694:DC:H5'	2.03	0.41
11:AB:694:DC:H2'	11:AB:695:DT:H71	1.99	0.41
11:AB:762:DG:H2''	11:AB:763:DA:OP2	2.21	0.41
11:AB:781:DG:H2''	11:AB:782:DC:OP2	2.20	0.41
11:AB:825:DT:H1'	11:AB:826:DC:H5'	2.02	0.41
11:AB:903:DT:H1'	11:AB:904:DC:H5'	2.02	0.41
11:AB:1040:DG:H2''	11:AB:1041:DC:OP2	2.20	0.41
11:AB:1051:DA:H1'	11:AB:1052:DC:H5'	2.03	0.41
11:AB:1064:DA:H1'	11:AB:1065:DC:H5'	2.03	0.41
11:AB:1074:DG:C8	11:AB:1075:DT:H72	2.55	0.41
11:AB:1117:DA:H1'	11:AB:1118:DC:H5'	2.03	0.41
11:AB:1128:DC:H2'	11:AB:1129:DT:H71	1.99	0.41
11:AB:1149:DA:H1'	11:AB:1150:DC:H5'	2.03	0.41
11:AB:1161:DG:H2''	11:AB:1162:DC:OP2	2.20	0.41
11:AB:1167:DT:H1'	11:AB:1168:DC:H5'	2.02	0.41
11:AB:1368:DA:H1'	11:AB:1369:DC:H5'	2.03	0.41
11:AB:1389:DA:H1'	11:AB:1390:DC:H5'	2.03	0.41
11:AB:1461:DG:C8	11:AB:1462:DT:H72	2.55	0.41
11:AB:1477:DT:H1'	11:AB:1478:DC:H5'	2.02	0.41
11:AB:1536:DC:H2'	11:AB:1537:DT:H71	1.99	0.41
11:AB:1547:DT:H1'	11:AB:1548:DC:H5'	2.02	0.41
11:AB:1555:DT:H1'	11:AB:1556:DC:H5'	2.02	0.41
11:AB:1578:DA:H1'	11:AB:1579:DC:H5'	2.03	0.41
11:AB:1580:DT:H1'	11:AB:1581:DC:H5'	2.02	0.41
11:AB:1629:DA:H1'	11:AB:1630:DC:H5'	2.03	0.41
11:AB:1643:DG:C8	11:AB:1644:DT:H72	2.55	0.41
11:AB:1648:DG:C8	11:AB:1649:DT:H72	2.55	0.41
11:AB:1697:DG:C8	11:AB:1698:DT:H72	2.55	0.41
11:AB:1737:DT:H1'	11:AB:1738:DC:H5'	2.02	0.41
11:AB:1863:DG:H2''	11:AB:1864:DC:OP2	2.20	0.41
11:AB:1883:DG:H2''	11:AB:1884:DC:OP2	2.19	0.41
11:AB:1891:DA:H1'	11:AB:1892:DC:H5'	2.03	0.41
11:AB:1907:DG:H2''	11:AB:1908:DA:OP2	2.21	0.41
11:AB:1932:DC:H2'	11:AB:1933:DT:H71	1.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1951:DC:H2'	11:AB:1952:DT:H71	1.99	0.41
11:AB:1972:DC:H2'	11:AB:1973:DT:H71	1.99	0.41
11:AB:2033:DG:H2''	11:AB:5858:DC:OP1	2.20	0.41
11:AB:2045:DG:C8	11:AB:2046:DT:H72	2.55	0.41
11:AB:2108:DT:H1'	11:AB:2109:DC:H5'	2.02	0.41
11:AB:2139:DG:C8	11:AB:2140:DT:H72	2.55	0.41
11:AB:2173:DG:C8	11:AB:2174:DT:H72	2.55	0.41
11:AB:2175:DT:H1'	11:AB:2176:DC:H5'	2.02	0.41
11:AB:2204:DT:H1'	11:AB:2205:DC:H5'	2.02	0.41
11:AB:2318:DT:H1'	11:AB:2319:DC:H5'	2.02	0.41
11:AB:2334:DG:C8	11:AB:2335:DT:H72	2.55	0.41
11:AB:2433:DA:H1'	11:AB:2434:DC:H5'	2.03	0.41
11:AB:2545:DG:H2''	11:AB:2546:DA:OP2	2.21	0.41
11:AB:2562:DA:H1'	11:AB:2563:DC:H5'	2.03	0.41
11:AB:2582:DA:H1'	11:AB:2583:DC:H5'	2.03	0.41
11:AB:2584:DC:H2'	11:AB:2585:DT:H71	1.99	0.41
11:AB:2656:DG:C8	11:AB:2657:DT:H72	2.55	0.41
11:AB:2703:DT:H2'	11:AB:2704:DT:H72	2.02	0.41
11:AB:2726:DG:H2''	11:AB:2727:DA:O5'	2.21	0.41
11:AB:2743:DT:H1'	11:AB:2744:DC:H5'	2.02	0.41
11:AB:2766:DG:C8	11:AB:2767:DT:H72	2.55	0.41
11:AB:2782:DG:C8	11:AB:2783:DT:H72	2.55	0.41
11:AB:2844:DT:H2'	11:AB:2845:DT:H72	2.02	0.41
11:AB:2926:DG:H2'	11:AB:2927:DT:H71	2.02	0.41
11:AB:2944:DG:C8	11:AB:2945:DT:H72	2.55	0.41
11:AB:2956:DG:C8	11:AB:2957:DT:H72	2.55	0.41
11:AB:2977:DG:C8	11:AB:2978:DT:H72	2.55	0.41
11:AB:3002:DT:H1'	11:AB:3003:DC:H5'	2.02	0.41
11:AB:3046:DT:H1'	11:AB:3047:DC:H5'	2.02	0.41
11:AB:3050:DA:H1'	11:AB:3051:DC:H5'	2.03	0.41
11:AB:3069:DG:C8	11:AB:3070:DT:H72	2.55	0.41
11:AB:3158:DT:H1'	11:AB:3159:DC:H5'	2.02	0.41
11:AB:3181:DG:C8	11:AB:3182:DT:H72	2.55	0.41
11:AB:3208:DG:H2'	11:AB:3209:DT:H71	2.02	0.41
11:AB:3247:DG:C8	11:AB:3248:DT:H72	2.55	0.41
11:AB:3252:DG:C8	11:AB:3253:DT:H72	2.55	0.41
11:AB:3345:DT:H1'	11:AB:3346:DC:H5'	2.02	0.41
11:AB:3381:DG:H2''	11:AB:3382:DA:OP2	2.21	0.41
11:AB:3409:DG:C8	11:AB:3410:DT:H72	2.55	0.41
11:AB:3436:DT:H1'	11:AB:3437:DC:H5'	2.02	0.41
11:AB:3453:DT:H1'	11:AB:3454:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3476:DG:C8	11:AB:3477:DT:H72	2.55	0.41
11:AB:3508:DT:H1'	11:AB:3509:DC:H5'	2.02	0.41
11:AB:3518:DG:C8	11:AB:3519:DT:H72	2.55	0.41
11:AB:3530:DG:H2''	11:AB:4791:DC:OP1	2.20	0.41
11:AB:3542:DG:H2''	11:AB:3543:DC:OP2	2.19	0.41
11:AB:3544:DG:H2''	11:AB:3545:DA:OP2	2.21	0.41
11:AB:3616:DC:H2'	11:AB:3617:DT:H71	1.99	0.41
11:AB:3638:DG:C8	11:AB:3639:DT:H72	2.55	0.41
11:AB:3650:DT:H1'	11:AB:4659:DC:H5'	2.02	0.41
11:AB:3694:DT:H1'	11:AB:3695:DC:H5'	2.02	0.41
11:AB:3721:DA:H1'	11:AB:3722:DC:H5'	2.03	0.41
11:AB:3723:DG:H2''	11:AB:3724:DA:O5'	2.21	0.41
11:AB:3729:DG:H2''	11:AB:3730:DC:OP2	2.19	0.41
11:AB:3762:DT:H1'	11:AB:3763:DC:H5'	2.02	0.41
11:AB:3814:DG:H2''	11:AB:3815:DA:O5'	2.21	0.41
11:AB:3822:DG:H2''	11:AB:3823:DA:OP2	2.21	0.41
11:AB:3830:DC:H2'	11:AB:3831:DT:H71	1.99	0.41
11:AB:3834:DT:H1'	11:AB:3835:DC:H5'	2.02	0.41
11:AB:3863:DG:H2''	11:AB:3864:DA:O5'	2.21	0.41
11:AB:3866:DG:C8	11:AB:3867:DT:H72	2.55	0.41
11:AB:3890:DG:C8	11:AB:3891:DT:H72	2.55	0.41
11:AB:3892:DG:H2''	11:AB:3893:DA:OP2	2.21	0.41
11:AB:3901:DA:H1'	11:AB:3902:DC:H5'	2.03	0.41
11:AB:3902:DC:H2'	11:AB:3903:DT:H71	1.99	0.41
11:AB:3937:DA:H1'	11:AB:3938:DC:H5'	2.03	0.41
11:AB:3940:DT:H1'	11:AB:3941:DC:H5'	2.02	0.41
11:AB:3966:DG:C8	11:AB:3967:DT:H72	2.55	0.41
11:AB:4004:DG:H2''	11:AB:4005:DC:OP2	2.20	0.41
11:AB:4016:DA:H1'	11:AB:4017:DC:H5'	2.03	0.41
11:AB:4253:DC:H2'	11:AB:4254:DT:H71	1.99	0.41
11:AB:4293:DG:C8	11:AB:4294:DT:H72	2.55	0.41
11:AB:4311:DG:H2''	11:AB:4312:DA:O5'	2.21	0.41
11:AB:4320:DT:H1'	11:AB:4321:DC:H5'	2.02	0.41
11:AB:4365:DG:C8	11:AB:4366:DT:H72	2.55	0.41
11:AB:4396:DT:H1'	11:AB:4397:DC:H5'	2.02	0.41
11:AB:4440:DA:H1'	11:AB:4441:DC:H5'	2.03	0.41
11:AB:4520:DG:H2''	11:AB:4521:DA:O5'	2.21	0.41
11:AB:4633:DG:H2''	11:AB:4634:DA:O5'	2.21	0.41
11:AB:4689:DG:H2''	11:AB:4690:DC:OP2	2.20	0.41
11:AB:4691:DT:H1'	11:AB:4692:DC:H5'	2.02	0.41
11:AB:4740:DG:H2'	11:AB:4741:DT:H71	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4745:DG:C8	11:AB:4746:DT:H72	2.55	0.41
11:AB:4799:DA:H1'	11:AB:4800:DC:H5'	2.03	0.41
11:AB:4814:DG:C8	11:AB:4815:DT:H72	2.55	0.41
11:AB:4816:DA:H1'	11:AB:4817:DC:H5'	2.03	0.41
11:AB:4823:DG:H2''	11:AB:4824:DA:OP2	2.21	0.41
11:AB:4825:DT:H1'	11:AB:4826:DC:H5'	2.02	0.41
11:AB:5197:DT:H1'	11:AB:5198:DC:H5'	2.02	0.41
11:AB:5201:DA:H1'	11:AB:5202:DC:H5'	2.03	0.41
11:AB:5375:DT:H1'	11:AB:5376:DC:H5'	2.02	0.41
11:AB:5448:DG:C8	11:AB:5449:DT:H72	2.55	0.41
11:AB:5450:DT:H1'	11:AB:5451:DC:H5'	2.02	0.41
11:AB:5458:DT:H1'	11:AB:5459:DC:H5'	2.02	0.41
11:AB:5469:DC:H2'	11:AB:5470:DT:H71	1.99	0.41
11:AB:5488:DG:H2''	11:AB:5489:DA:O5'	2.21	0.41
11:AB:5508:DT:H1'	11:AB:5509:DC:H5'	2.02	0.41
11:AB:5590:DT:H1'	11:AB:5591:DC:H5'	2.02	0.41
11:AB:5599:DT:H1'	11:AB:5600:DC:H5'	2.02	0.41
11:AB:5623:DA:H1'	11:AB:5624:DC:H5'	2.03	0.41
11:AB:5660:DG:C8	11:AB:5661:DT:H72	2.55	0.41
11:AB:5676:DT:H1'	11:AB:5677:DC:H5'	2.02	0.41
11:AB:5743:DG:H2''	11:AB:5744:DA:OP2	2.21	0.41
11:AB:5848:DG:H2''	11:AB:5849:DC:OP2	2.19	0.41
11:AB:5956:DG:H2''	11:AB:5957:DA:O5'	2.21	0.41
11:AB:6052:DT:H1'	11:AB:6053:DC:H5'	2.02	0.41
11:AB:6057:DG:H2''	11:AB:6058:DC:OP2	2.20	0.41
11:AB:6081:DT:H1'	11:AB:6082:DC:H5'	2.02	0.41
11:AB:6275:DT:H1'	11:AB:6276:DC:H5'	2.02	0.41
11:AB:6283:DT:H1'	11:AB:6284:DC:H5'	2.02	0.41
11:AB:6340:DG:C8	11:AB:6341:DT:H72	2.55	0.41
11:AB:6363:DA:H1'	11:AB:6364:DC:H5'	2.03	0.41
11:AB:6400:DG:H2''	11:AB:6401:DC:OP2	2.20	0.41
11:AB:6532:DT:H1'	11:AB:6533:DC:H5'	2.02	0.41
11:AB:6543:DG:H2''	11:AB:6544:DA:OP2	2.21	0.41
11:AB:6590:DA:H1'	11:AB:6591:DC:H5'	2.03	0.41
11:AB:6660:DA:H1'	11:AB:6661:DC:H5'	2.03	0.41
11:AB:6683:DA:H1'	11:AB:6684:DC:H5'	2.03	0.41
11:AB:6791:DT:H1'	11:AB:6792:DC:H5'	2.02	0.41
11:AB:6818:DT:H1'	11:AB:6819:DC:H5'	2.02	0.41
11:AB:6871:DT:H2'	11:AB:6872:DT:H72	2.02	0.41
11:AB:7019:DG:C8	11:AB:7020:DT:H72	2.55	0.41
11:AB:7057:DT:H1'	11:AB:7058:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:7123:DG:H2''	11:AB:7124:DA:OP2	2.21	0.41
11:AB:7151:DG:C8	11:AB:7152:DT:H72	2.55	0.41
11:AB:7174:DG:H2''	11:AB:7175:DA:O5'	2.21	0.41
11:AB:7197:DG:C8	11:AB:7198:DT:H72	2.55	0.41
12:AC:17:DC:OP1	109:J8:28:DG:H2''	2.20	0.41
14:B1:39:DG:C8	14:B1:40:DT:H72	2.55	0.41
17:B4:19:DT:H1'	17:B4:20:DC:H5'	2.02	0.41
18:B5:22:DC:H5'	156:O2:21:DA:H1'	2.03	0.41
21:B8:10:DT:H1'	21:B8:11:DC:H5'	2.01	0.41
21:B8:12:DG:C8	21:B8:13:DT:H72	2.55	0.41
22:B9:45:DG:H2''	22:B9:46:DA:O5'	2.21	0.41
23:BA:7:DT:H1'	23:BA:8:DC:H5'	2.02	0.41
24:BC:6:DG:H2''	24:BC:7:DA:OP2	2.21	0.41
24:BC:12:DG:H2''	24:BC:13:DA:O5'	2.21	0.41
24:BC:41:DC:H2'	57:EC:8:DT:H71	1.99	0.41
25:BD:8:DA:H1'	25:BD:9:DC:H5'	2.03	0.41
26:C1:19:DG:H2''	26:C1:20:DA:O5'	2.21	0.41
28:C3:15:DG:H2''	28:C3:16:DA:O5'	2.21	0.41
29:C5:33:DG:H2''	29:C5:34:DA:OP2	2.21	0.41
31:C7:20:DG:H2''	31:C7:21:DA:O5'	2.21	0.41
31:C7:23:DG:C8	31:C7:24:DT:H72	2.55	0.41
32:C8:19:DG:H2''	32:C8:20:DA:OP2	2.21	0.41
32:C8:37:DG:H2''	32:C8:38:DA:OP2	2.21	0.41
32:C8:43:DT:H1'	32:C8:44:DC:H5'	2.02	0.41
35:CC:18:DG:H2'	35:CC:19:DT:H71	2.02	0.41
36:CD:14:DG:C8	156:O2:43:DT:H72	2.55	0.41
37:D1:29:DC:H5'	138:M5:7:DA:H1'	2.03	0.41
37:D1:36:DG:H2''	37:D1:37:DC:OP2	2.19	0.41
38:D2:6:DG:H2''	38:D2:7:DA:OP2	2.21	0.41
39:D3:3:DG:C8	39:D3:4:DT:H72	2.55	0.41
39:D3:12:DT:H1'	39:D3:13:DC:H5'	2.02	0.41
41:D6:9:DG:H2''	41:D6:10:DA:OP2	2.21	0.41
41:D6:15:DA:H1'	41:D6:16:DC:H5'	2.03	0.41
41:D6:22:DC:OP1	211:TD:21:DG:H2''	2.19	0.41
43:D8:19:DT:H1'	43:D8:20:DC:H5'	2.02	0.41
43:D8:37:DG:H2''	43:D8:38:DA:OP2	2.21	0.41
43:D8:40:DG:H2''	43:D8:41:DA:OP2	2.21	0.41
47:DD:34:DG:H2''	47:DD:35:DA:OP2	2.21	0.41
48:E1:7:DG:H2''	231:W5:21:DA:OP1	2.21	0.41
49:E2:34:DG:C8	49:E2:35:DT:H72	2.55	0.41
51:E5:8:DG:H2'	51:E5:9:DT:H71	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:E5:14:DT:H72	93:I2:21:DG:C8	2.55	0.41
51:E5:25:DG:H2''	51:E5:26:DC:OP2	2.20	0.41
51:E5:33:DA:H1'	51:E5:34:DC:H5'	2.03	0.41
52:E6:1:DT:H2'	52:E6:2:DT:H72	2.02	0.41
52:E6:28:DG:H2''	52:E6:29:DA:OP2	2.21	0.41
55:E9:28:DT:H72	80:GD:13:DG:C8	2.55	0.41
59:F1:12:DT:H1'	59:F1:13:DC:H5'	2.02	0.41
59:F1:18:DG:H2''	59:F1:19:DA:OP2	2.21	0.41
60:F2:5:DG:H2''	60:F2:6:DC:OP2	2.19	0.41
64:F7:4:DT:H1'	108:J7:15:DC:H5'	2.02	0.41
64:F7:24:DG:C8	64:F7:25:DT:H72	2.55	0.41
66:F9:5:DG:H2''	66:F9:6:DA:O5'	2.21	0.41
67:FA:1:DG:H2''	67:FA:2:DA:O5'	2.21	0.41
67:FA:11:DT:H1'	67:FA:12:DC:H5'	2.02	0.41
68:FC:14:DG:C8	68:FC:15:DT:H72	2.55	0.41
70:G1:16:DG:C8	70:G1:17:DT:H72	2.55	0.41
71:G2:6:DC:H2'	71:G2:7:DT:H71	1.99	0.41
74:G6:31:DA:OP1	213:U3:14:DG:H2''	2.21	0.41
75:G7:24:DG:C8	75:G7:25:DT:H72	2.55	0.41
75:G7:26:DG:H2''	75:G7:27:DC:OP2	2.19	0.41
79:GC:21:DG:C8	79:GC:22:DT:H72	2.55	0.41
82:H2:28:DT:H72	160:O7:5:DG:C8	2.55	0.41
82:H2:36:DG:H2'	82:H2:37:DT:H71	2.02	0.41
82:H2:55:DG:H2''	108:J7:1:DA:OP1	2.21	0.41
84:H5:1:DA:OP1	128:L5:23:DG:H2''	2.21	0.41
84:H5:30:DT:H1'	84:H5:31:DC:H5'	2.02	0.41
84:H5:34:DC:H5'	168:P5:6:DA:H1'	2.03	0.41
85:H6:27:DA:H1'	85:H6:28:DC:H5'	2.03	0.41
87:H8:10:DA:H1'	87:H8:11:DC:H5'	2.03	0.41
88:H9:18:DA:H1'	88:H9:19:DC:H5'	2.03	0.41
91:HD:15:DG:H2''	91:HD:16:DA:O5'	2.21	0.41
94:I3:11:DC:H5'	165:OD:42:DA:H1'	2.03	0.41
94:I3:17:DG:H2''	229:VD:11:DA:OP1	2.21	0.41
97:I7:33:DG:H2''	97:I7:34:DA:OP2	2.21	0.41
98:I8:37:DG:H2''	123:KC:17:DA:OP1	2.21	0.41
101:IC:13:DG:H2''	101:IC:14:DA:OP2	2.21	0.41
102:ID:21:DG:H2''	102:ID:22:DA:OP2	2.21	0.41
104:J2:6:DA:H1'	104:J2:7:DC:H5'	2.03	0.41
106:J5:34:DG:H2''	106:J5:35:DA:OP2	2.21	0.41
109:J8:44:DG:H2''	109:J8:45:DA:OP2	2.21	0.41
113:JD:15:DT:H72	132:L9:14:DG:C8	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
113:JD:29:DT:H72	218:UA:14:DG:C8	2.55	0.41
114:K1:23:DT:H1'	114:K1:24:DC:H5'	2.02	0.41
116:K3:6:DG:H2''	116:K3:7:DA:OP2	2.21	0.41
116:K3:10:DG:C8	116:K3:11:DT:H72	2.55	0.41
117:K5:18:DA:H1'	117:K5:19:DC:H5'	2.03	0.41
117:K5:40:DG:H2''	117:K5:41:DC:OP2	2.19	0.41
119:K7:13:DG:H2''	119:K7:14:DA:OP2	2.21	0.41
120:K8:1:DT:H1'	120:K8:2:DC:H5'	2.02	0.41
120:K8:10:DG:H2''	120:K8:11:DA:OP2	2.21	0.41
120:K8:20:DT:H1'	120:K8:21:DC:H5'	2.02	0.41
121:K9:20:DG:C8	200:SA:17:DT:H72	2.55	0.41
122:KA:1:DA:H1'	122:KA:2:DC:H5'	2.03	0.41
122:KA:29:DT:H72	124:KD:16:DG:C8	2.55	0.41
128:L5:5:DT:H1'	128:L5:6:DC:H5'	2.02	0.41
130:L7:6:DG:H2''	130:L7:7:DA:OP2	2.21	0.41
130:L7:34:DG:H2''	130:L7:35:DA:OP2	2.21	0.41
131:L8:23:DA:H1'	131:L8:24:DC:H5'	2.03	0.41
132:L9:15:DA:H1'	132:L9:16:DC:H5'	2.03	0.41
133:LA:3:DG:C8	133:LA:4:DT:H72	2.55	0.41
136:M2:6:DG:H2''	136:M2:7:DC:OP2	2.19	0.41
138:M5:37:DC:H2'	138:M5:38:DT:H71	1.99	0.41
143:MA:15:DC:H2'	143:MA:16:DT:H71	1.99	0.41
144:MC:1:DG:H2''	144:MC:2:DA:O5'	2.21	0.41
146:N2:4:DT:H1'	146:N2:5:DC:H5'	2.02	0.41
147:N3:5:DG:H2''	147:N3:6:DC:OP2	2.20	0.41
147:N3:16:DT:H1'	147:N3:17:DC:H5'	2.02	0.41
148:N5:13:DT:H1'	148:N5:14:DC:H5'	2.02	0.41
154:NC:10:DG:C8	174:PC:21:DT:H72	2.55	0.41
156:O2:4:DT:H1'	156:O2:5:DC:H5'	2.02	0.41
156:O2:35:DA:H1'	196:S5:8:DC:H5'	2.03	0.41
156:O2:50:DC:H5'	238:X9:38:DT:H1'	2.02	0.41
158:O5:21:DC:H5'	212:U2:16:DA:H1'	2.03	0.41
159:O6:5:DG:H2''	159:O6:6:DC:OP2	2.20	0.41
161:O8:53:DG:H2''	161:O8:54:DC:OP2	2.19	0.41
165:OD:29:DG:H2''	165:OD:30:DA:O5'	2.21	0.41
171:P8:12:DC:H2'	171:P8:13:DT:H71	1.99	0.41
174:PC:5:DA:H1'	174:PC:6:DC:H5'	2.03	0.41
174:PC:14:DG:H2''	174:PC:15:DA:O5'	2.21	0.41
177:Q3:14:DA:H1'	177:Q3:15:DC:H5'	2.03	0.41
177:Q3:17:DT:H1'	177:Q3:18:DC:H5'	2.02	0.41
178:Q5:11:DT:H1'	178:Q5:12:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
178:Q5:15:DG:H2''	178:Q5:16:DA:O5'	2.21	0.41
179:Q7:13:DG:C8	179:Q7:14:DT:H72	2.55	0.41
181:Q9:19:DA:OP1	234:W9:14:DG:H2''	2.21	0.41
181:Q9:24:DA:H1'	181:Q9:25:DC:H5'	2.03	0.41
184:QD:1:DA:H1'	184:QD:2:DC:H5'	2.03	0.41
184:QD:19:DT:H1'	184:QD:20:DC:H5'	2.02	0.41
186:R3:14:DT:H71	204:T3:7:DC:H2'	1.99	0.41
186:R3:15:DC:H2'	186:R3:16:DT:H71	1.99	0.41
186:R3:17:DT:H1'	186:R3:18:DC:H5'	2.02	0.41
187:R5:8:DA:H1'	187:R5:9:DC:H5'	2.03	0.41
187:R5:37:DG:H2''	187:R5:38:DA:OP2	2.21	0.41
189:R8:31:DG:H2''	189:R8:32:DA:O5'	2.21	0.41
192:RC:22:DT:H1'	192:RC:23:DC:H5'	2.02	0.41
193:RD:7:DA:H1'	193:RD:8:DC:H5'	2.03	0.41
194:S2:1:DT:H1'	194:S2:2:DC:H5'	2.02	0.41
194:S2:18:DG:H2''	194:S2:19:DA:OP2	2.21	0.41
194:S2:25:DG:C8	194:S2:26:DT:H72	2.55	0.41
197:S7:1:DA:H1'	197:S7:2:DC:H5'	2.03	0.41
199:S9:22:DG:H2''	199:S9:23:DA:O5'	2.21	0.41
204:T3:42:DA:H1'	204:T3:43:DC:H5'	2.03	0.41
205:T5:22:DG:H2''	205:T5:23:DA:O5'	2.21	0.41
206:T7:2:DG:H2''	206:T7:3:DC:OP2	2.19	0.41
206:T7:50:DG:H2''	206:T7:51:DA:OP2	2.21	0.41
207:T8:9:DG:C8	207:T8:10:DT:H72	2.55	0.41
207:T8:23:DG:C8	207:T8:24:DT:H72	2.55	0.41
209:TA:38:DA:H1'	209:TA:39:DC:H5'	2.03	0.41
210:TC:7:DT:H1'	210:TC:8:DC:H5'	2.02	0.41
211:TD:13:DG:C8	211:TD:14:DT:H72	2.55	0.41
211:TD:37:DT:H1'	211:TD:38:DC:H5'	2.02	0.41
212:U2:24:DA:H1'	212:U2:25:DC:H5'	2.03	0.41
213:U3:3:DT:H1'	213:U3:4:DC:H5'	2.02	0.41
213:U3:19:DG:H2''	213:U3:20:DC:OP2	2.20	0.41
214:U5:8:DG:H2''	214:U5:9:DC:OP2	2.19	0.41
215:U7:14:DG:C8	215:U7:15:DT:H72	2.55	0.41
218:UA:9:DT:H1'	218:UA:10:DC:H5'	2.02	0.41
221:V2:26:DA:H1'	221:V2:27:DC:H5'	2.03	0.41
223:V5:7:DG:H2''	223:V5:8:DA:O5'	2.21	0.41
223:V5:10:DG:H2''	223:V5:11:DC:OP2	2.19	0.41
224:V7:14:DT:H1'	224:V7:15:DC:H5'	2.02	0.41
225:V8:25:DA:H1'	225:V8:26:DC:H5'	2.03	0.41
227:VA:26:DA:H1'	227:VA:27:DC:H5'	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
230:W3:34:DA:H1'	230:W3:35:DC:H5'	2.03	0.41
231:W5:14:DC:H2'	231:W5:15:DT:H71	1.98	0.41
231:W5:31:DT:H1'	231:W5:32:DC:H5'	2.02	0.41
232:W7:21:DT:H1'	232:W7:22:DC:H5'	2.02	0.41
237:X7:14:DA:H1'	237:X7:15:DC:H5'	2.03	0.41
2:A2:11:DG:H2''	2:A2:12:DC:OP2	2.19	0.41
7:A7:22:DT:H1'	7:A7:23:DC:H5'	2.02	0.41
10:AA:17:DG:H2''	10:AA:18:DC:OP2	2.19	0.41
11:AB:152:DG:H2''	11:AB:153:DA:O5'	2.21	0.41
11:AB:307:DG:H2''	11:AB:308:DC:OP2	2.19	0.41
11:AB:342:DA:H1'	11:AB:343:DC:H5'	2.03	0.41
11:AB:369:DA:H1'	11:AB:370:DC:H5'	2.03	0.41
11:AB:394:DT:H1'	11:AB:395:DC:H5'	2.02	0.41
11:AB:494:DT:H1'	11:AB:495:DC:H5'	2.02	0.41
11:AB:504:DA:H1'	11:AB:505:DC:H5'	2.03	0.41
11:AB:572:DT:H2'	11:AB:573:DT:H71	2.00	0.41
11:AB:898:DG:C8	11:AB:899:DT:H72	2.55	0.41
11:AB:906:DG:H2''	11:AB:907:DA:OP2	2.21	0.41
11:AB:966:DT:H1'	11:AB:967:DC:H5'	2.02	0.41
11:AB:1053:DG:H2''	11:AB:1054:DC:OP2	2.19	0.41
11:AB:1065:DC:H2'	11:AB:1066:DT:H71	1.98	0.41
11:AB:1070:DT:H2'	11:AB:1071:DT:H71	2.00	0.41
11:AB:1257:DG:C8	11:AB:1258:DT:H72	2.55	0.41
11:AB:1561:DT:H1'	11:AB:1562:DC:H5'	2.02	0.41
11:AB:1625:DT:H1'	11:AB:1626:DC:H5'	2.02	0.41
11:AB:1669:DG:H2''	11:AB:1670:DC:OP2	2.19	0.41
11:AB:1690:DT:H1'	11:AB:1691:DC:H5'	2.02	0.41
11:AB:1770:DG:H2''	11:AB:1771:DC:OP2	2.19	0.41
11:AB:1789:DG:H2''	11:AB:1790:DC:OP2	2.19	0.41
11:AB:1800:DT:H1'	11:AB:1801:DC:H5'	2.02	0.41
11:AB:2276:DT:H1'	11:AB:2277:DC:H5'	2.02	0.41
11:AB:2616:DA:H1'	11:AB:2617:DC:H5'	2.03	0.41
11:AB:2651:DT:H1'	11:AB:2652:DC:H5'	2.02	0.41
11:AB:2672:DT:H1'	11:AB:2673:DC:H5'	2.02	0.41
11:AB:2821:DT:H2'	11:AB:2822:DT:H71	2.00	0.41
11:AB:2896:DA:H1'	11:AB:2897:DC:H5'	2.03	0.41
11:AB:2905:DT:H1'	11:AB:2906:DC:H5'	2.02	0.41
11:AB:3109:DT:H1'	11:AB:3110:DC:H5'	2.02	0.41
11:AB:3120:DT:H1'	11:AB:3121:DC:H5'	2.02	0.41
11:AB:3230:DG:H2''	11:AB:3231:DA:O5'	2.21	0.41
11:AB:3271:DT:H1'	11:AB:3272:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3387:DG:H2''	11:AB:3388:DA:O5'	2.21	0.41
11:AB:3424:DG:H2''	11:AB:3425:DC:OP2	2.19	0.41
11:AB:3463:DA:H1'	11:AB:3464:DC:H5'	2.03	0.41
11:AB:3484:DA:H1'	11:AB:3485:DC:H5'	2.03	0.41
11:AB:3564:DT:H1'	11:AB:3565:DC:H5'	2.02	0.41
11:AB:3584:DG:H2''	11:AB:3585:DC:OP2	2.19	0.41
11:AB:3938:DC:H2'	11:AB:3939:DT:H71	1.99	0.41
11:AB:4048:DG:H2''	11:AB:4049:DC:OP2	2.19	0.41
11:AB:4071:DG:H2''	11:AB:4072:DC:OP2	2.19	0.41
11:AB:4251:DA:H1'	11:AB:4252:DC:H5'	2.03	0.41
11:AB:4372:DA:H1'	11:AB:4373:DC:H5'	2.03	0.41
11:AB:4435:DT:H1'	11:AB:4436:DC:H5'	2.02	0.41
11:AB:4443:DA:H1'	11:AB:4444:DC:H5'	2.03	0.41
11:AB:4611:DG:H2''	11:AB:4612:DA:O5'	2.21	0.41
11:AB:4716:DA:H1'	11:AB:4717:DC:H5'	2.03	0.41
11:AB:4964:DG:H2''	11:AB:4965:DA:O5'	2.21	0.41
11:AB:4980:DG:H2''	11:AB:4981:DC:OP2	2.19	0.41
11:AB:5048:DG:C8	11:AB:5049:DT:H72	2.55	0.41
11:AB:5050:DG:H2''	11:AB:5051:DC:OP2	2.19	0.41
11:AB:5257:DG:H2''	11:AB:5258:DA:O5'	2.21	0.41
11:AB:5262:DG:H2''	11:AB:5263:DA:OP2	2.21	0.41
11:AB:5277:DG:H2''	11:AB:5278:DC:OP2	2.19	0.41
11:AB:5344:DA:H1'	11:AB:5345:DC:H5'	2.03	0.41
11:AB:5346:DG:C8	11:AB:5347:DT:H72	2.55	0.41
11:AB:5493:DG:H2''	11:AB:5494:DA:O5'	2.21	0.41
11:AB:5990:DA:H1'	11:AB:5991:DC:H5'	2.03	0.41
11:AB:6030:DG:H2''	11:AB:6031:DC:OP2	2.19	0.41
11:AB:6106:DT:H1'	11:AB:6107:DC:H5'	2.02	0.41
11:AB:6240:DT:H1'	11:AB:6241:DC:H5'	2.02	0.41
11:AB:6347:DA:H1'	11:AB:6348:DC:H5'	2.03	0.41
11:AB:6410:DC:H2'	11:AB:6411:DT:H71	1.98	0.41
11:AB:6445:DG:H2''	11:AB:6446:DA:OP2	2.21	0.41
11:AB:6458:DG:C8	11:AB:6459:DT:H72	2.55	0.41
11:AB:6486:DC:H2'	11:AB:6487:DT:H71	1.99	0.41
11:AB:6503:DC:H2'	11:AB:6504:DT:H71	1.98	0.41
11:AB:6546:DT:H1'	11:AB:6547:DC:H5'	2.01	0.41
11:AB:6775:DG:C8	11:AB:6776:DT:H72	2.55	0.41
11:AB:6907:DG:H2''	11:AB:6908:DC:OP2	2.19	0.41
11:AB:6931:DG:H2''	11:AB:6932:DA:OP2	2.21	0.41
11:AB:6997:DG:H2''	11:AB:6998:DC:OP2	2.19	0.41
11:AB:7053:DT:H1'	11:AB:7054:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AC:20:DG:OP1	76:G8:1:DG:OP2	2.39	0.41
14:B1:27:DG:H2''	14:B1:28:DA:O5'	2.21	0.41
22:B9:11:DG:OP1	67:FA:32:DG:OP1	2.39	0.41
28:C3:8:DG:C8	28:C3:9:DT:H72	2.55	0.41
35:CC:22:DG:H2''	35:CC:23:DA:O5'	2.21	0.41
37:D1:41:DA:H1'	37:D1:42:DC:H5'	2.03	0.41
38:D2:2:DA:H1'	38:D2:3:DC:H5'	2.03	0.41
39:D3:29:DG:OP1	202:SD:10:DG:OP1	2.39	0.41
40:D5:21:DT:H2'	40:D5:22:DT:H71	2.00	0.41
48:E1:12:DG:H2''	48:E1:13:DC:OP2	2.20	0.41
54:E8:33:DT:H1'	54:E8:34:DC:H5'	2.02	0.41
62:F5:15:DA:H1'	62:F5:16:DC:H5'	2.03	0.41
71:G2:19:DA:H1'	71:G2:20:DC:H5'	2.03	0.41
77:G9:4:DA:H1'	77:G9:5:DC:H5'	2.03	0.41
90:HC:22:DA:H1'	90:HC:23:DC:H5'	2.03	0.41
90:HC:25:DG:H2''	90:HC:26:DA:OP2	2.21	0.41
92:I1:15:DG:H2''	92:I1:16:DA:O5'	2.21	0.41
93:I2:35:DA:H1'	236:X5:17:DC:H5'	2.03	0.41
94:I3:4:DA:H1'	94:I3:5:DC:H5'	2.03	0.41
94:I3:51:DA:H1'	94:I3:52:DC:H5'	2.03	0.41
95:I5:5:DT:H2'	95:I5:6:DT:H71	2.01	0.41
98:I8:8:DA:H1'	98:I8:9:DC:H5'	2.03	0.41
102:ID:24:DG:H2''	102:ID:25:DA:OP2	2.21	0.41
102:ID:32:DG:C8	102:ID:33:DT:H72	2.55	0.41
104:J2:30:DC:H2'	104:J2:31:DT:H71	1.99	0.41
109:J8:1:DA:OP1	120:K8:4:DG:H2''	2.21	0.41
113:JD:5:DG:H2''	113:JD:6:DA:OP2	2.21	0.41
114:K1:8:DC:H2'	114:K1:9:DT:H71	1.99	0.41
114:K1:26:DG:H2''	114:K1:27:DA:O5'	2.21	0.41
114:K1:31:DG:H2''	114:K1:32:DA:O5'	2.21	0.41
122:KA:33:DG:H2''	122:KA:34:DA:O5'	2.21	0.41
122:KA:44:DG:H2''	122:KA:45:DA:OP2	2.21	0.41
125:L1:27:DA:H1'	125:L1:28:DC:H5'	2.03	0.41
126:L2:25:DA:H1'	126:L2:26:DC:H5'	2.03	0.41
133:LA:16:DA:H1'	133:LA:17:DC:H5'	2.03	0.41
136:M2:12:DT:H2'	136:M2:13:DT:H71	2.01	0.41
141:M8:8:DA:H1'	141:M8:9:DC:H5'	2.03	0.41
145:MD:31:DA:H1'	145:MD:32:DC:H5'	2.03	0.41
149:N6:6:DT:H1'	149:N6:7:DC:H5'	2.02	0.41
152:N9:18:DG:H2''	152:N9:19:DC:OP2	2.19	0.41
156:O2:19:DG:H2''	156:O2:20:DA:OP2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
159:O6:20:DG:H2''	159:O6:21:DA:O5'	2.21	0.41
163:OA:17:DT:H1'	163:OA:18:DC:H5'	2.02	0.41
164:OC:22:DA:H1'	164:OC:23:DC:H5'	2.03	0.41
165:OD:19:DA:H1'	165:OD:20:DC:H5'	2.03	0.41
165:OD:51:DG:H2''	165:OD:52:DA:OP2	2.21	0.41
167:P3:7:DT:H1'	167:P3:8:DC:H5'	2.02	0.41
173:PA:27:DA:H1'	173:PA:28:DC:H5'	2.03	0.41
183:QC:6:DT:H1'	183:QC:7:DC:H5'	2.02	0.41
184:QD:12:DT:H2'	184:QD:13:DT:H71	2.01	0.41
187:R5:4:DG:H2''	187:R5:5:DC:OP2	2.19	0.41
187:R5:18:DG:H2''	187:R5:19:DC:OP2	2.19	0.41
192:RC:19:DA:H1'	192:RC:20:DC:H5'	2.03	0.41
195:S3:12:DT:H2'	195:S3:13:DT:H71	2.01	0.41
196:S5:6:DA:H1'	196:S5:7:DC:H5'	2.03	0.41
206:T7:5:DG:H2''	206:T7:6:DA:OP2	2.21	0.41
207:T8:14:DG:H2''	207:T8:15:DA:OP2	2.21	0.41
211:TD:5:DT:H2'	211:TD:6:DT:H71	2.01	0.41
214:U5:2:DT:H1'	214:U5:3:DC:H5'	2.02	0.41
214:U5:25:DT:H1'	214:U5:26:DC:H5'	2.02	0.41
229:VD:8:DG:H2''	229:VD:9:DA:O5'	2.21	0.41
237:X7:6:DA:H1'	237:X7:7:DC:H5'	2.03	0.41
3:A3:14:DG:H2''	3:A3:15:DA:O5'	2.21	0.40
4:A4:8:DG:H2''	4:A4:9:DA:O5'	2.21	0.40
4:A4:29:DT:H2'	4:A4:30:DT:H71	2.01	0.40
7:A7:11:DG:H2''	7:A7:12:DA:O5'	2.21	0.40
7:A7:36:DT:H1'	7:A7:37:DC:H5'	2.02	0.40
11:AB:26:DG:C8	11:AB:27:DT:H72	2.55	0.40
11:AB:39:DT:H1'	11:AB:40:DC:H5'	2.02	0.40
11:AB:140:DG:H2''	11:AB:141:DA:OP2	2.21	0.40
11:AB:148:DA:H1'	11:AB:149:DC:H5'	2.03	0.40
11:AB:173:DT:H1'	11:AB:174:DC:H5'	2.02	0.40
11:AB:243:DG:H2''	11:AB:244:DA:OP2	2.22	0.40
11:AB:328:DG:H2''	11:AB:329:DC:OP2	2.20	0.40
11:AB:351:DG:H2''	11:AB:352:DA:O5'	2.21	0.40
11:AB:462:DA:H1'	11:AB:463:DC:H5'	2.03	0.40
11:AB:481:DG:C8	11:AB:482:DT:H72	2.55	0.40
11:AB:700:DA:H1'	11:AB:701:DC:H5'	2.03	0.40
11:AB:708:DA:H1'	11:AB:709:DC:H5'	2.03	0.40
11:AB:760:DG:H2''	11:AB:761:DA:OP2	2.21	0.40
11:AB:921:DG:H2''	11:AB:922:DA:O5'	2.21	0.40
11:AB:1249:DC:H2'	11:AB:1250:DT:H71	1.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1306:DC:H2'	11:AB:1307:DT:H71	1.99	0.40
11:AB:1403:DA:H1'	11:AB:1404:DC:H5'	2.03	0.40
11:AB:1498:DT:H1'	11:AB:1499:DC:H5'	2.02	0.40
11:AB:1809:DA:H1'	11:AB:1810:DC:H5'	2.03	0.40
11:AB:1998:DG:H2''	11:AB:1999:DA:O5'	2.21	0.40
11:AB:2089:DT:H2'	11:AB:2090:DT:H71	2.00	0.40
11:AB:2260:DC:H2'	11:AB:2261:DT:H71	1.99	0.40
11:AB:2449:DA:H1'	11:AB:2450:DC:H5'	2.03	0.40
11:AB:2517:DT:H2'	11:AB:2518:DT:H71	2.00	0.40
11:AB:2800:DT:H2'	11:AB:2801:DT:H71	2.00	0.40
11:AB:3340:DC:H2'	11:AB:3341:DT:H71	1.99	0.40
11:AB:3430:DG:H2''	11:AB:3431:DA:O5'	2.21	0.40
11:AB:3498:DC:H2'	11:AB:3499:DT:H71	1.99	0.40
11:AB:3646:DT:H1'	11:AB:3647:DC:H5'	2.02	0.40
11:AB:3917:DG:H2''	11:AB:3918:DC:OP2	2.19	0.40
11:AB:3962:DT:H1'	11:AB:3963:DC:H5'	2.01	0.40
11:AB:3989:DT:H1'	11:AB:3990:DC:H5'	2.02	0.40
11:AB:4051:DA:H1'	11:AB:4052:DC:H5'	2.03	0.40
11:AB:4493:DG:H2''	11:AB:4494:DC:OP2	2.19	0.40
11:AB:4654:DG:H2''	11:AB:4655:DC:OP2	2.19	0.40
11:AB:4959:DG:H2''	11:AB:4960:DC:OP2	2.19	0.40
11:AB:4961:DG:H2''	11:AB:4962:DA:O5'	2.21	0.40
11:AB:5063:DC:H2'	11:AB:5064:DT:H71	1.99	0.40
11:AB:5072:DG:H2''	11:AB:5073:DA:O5'	2.21	0.40
11:AB:5219:DA:H1'	11:AB:5220:DC:H5'	2.03	0.40
11:AB:5528:DT:H1'	11:AB:5529:DC:H5'	2.02	0.40
11:AB:5909:DG:H2''	11:AB:5910:DA:OP2	2.21	0.40
11:AB:5929:DA:H1'	11:AB:5930:DC:H5'	2.03	0.40
11:AB:5940:DT:H1'	11:AB:5941:DC:H5'	2.02	0.40
11:AB:5977:DG:H2''	11:AB:5978:DA:O5'	2.21	0.40
11:AB:6020:DT:H2'	11:AB:6021:DT:H71	2.01	0.40
11:AB:6116:DA:H1'	11:AB:6117:DC:H5'	2.03	0.40
11:AB:6293:DT:H2'	11:AB:6294:DT:H71	2.01	0.40
11:AB:6411:DT:H1'	11:AB:6412:DC:H5'	2.02	0.40
11:AB:6432:DT:H1'	11:AB:6433:DC:H5'	2.02	0.40
11:AB:6525:DT:H1'	11:AB:6526:DC:H5'	2.02	0.40
11:AB:6579:DT:H1'	11:AB:6580:DC:H5'	2.02	0.40
11:AB:6617:DA:H1'	11:AB:6618:DC:H5'	2.03	0.40
11:AB:6720:DT:H1'	11:AB:6721:DC:H5'	2.02	0.40
11:AB:6741:DT:H1'	11:AB:6742:DC:H5'	2.02	0.40
11:AB:6750:DG:H2''	11:AB:6751:DA:O5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6860:DC:H2'	11:AB:6861:DT:H71	1.99	0.40
11:AB:6938:DT:H1'	11:AB:6939:DC:H5'	2.02	0.40
11:AB:7045:DC:H2'	11:AB:7046:DT:H71	1.99	0.40
11:AB:7098:DA:H1'	11:AB:7099:DC:H5'	2.03	0.40
11:AB:7177:DG:H2''	11:AB:7178:DC:OP2	2.19	0.40
13:AD:17:DA:H1'	13:AD:18:DC:H5'	2.03	0.40
26:C1:10:DA:H1'	26:C1:11:DC:H5'	2.03	0.40
26:C1:13:DT:H1'	26:C1:14:DC:H5'	2.02	0.40
30:C6:22:DA:H1'	30:C6:23:DC:H5'	2.03	0.40
32:C8:50:DT:H2'	32:C8:51:DT:H71	2.01	0.40
39:D3:7:DT:H1'	39:D3:8:DC:H5'	2.02	0.40
55:E9:27:DA:H1'	80:GD:14:DC:H5'	2.03	0.40
55:E9:39:DA:H1'	55:E9:40:DC:H5'	2.03	0.40
60:F2:25:DG:H2''	130:L7:15:DA:OP1	2.21	0.40
61:F3:3:DT:H1'	61:F3:4:DC:H5'	2.02	0.40
65:F8:9:DC:H5'	87:H8:17:DA:H1'	2.03	0.40
67:FA:3:DG:H2''	67:FA:4:DA:O5'	2.21	0.40
67:FA:28:DA:H1'	67:FA:29:DC:H5'	2.03	0.40
69:FD:42:DA:H1'	69:FD:43:DC:H5'	2.03	0.40
72:G3:2:DC:H2'	72:G3:3:DT:H71	1.99	0.40
74:G6:7:DG:H2''	74:G6:8:DA:OP2	2.21	0.40
74:G6:33:DG:C8	74:G6:34:DT:H72	2.55	0.40
75:G7:14:DT:H1'	75:G7:15:DC:H5'	2.02	0.40
78:GA:15:DA:H1'	78:GA:16:DC:H5'	2.03	0.40
81:H1:18:DT:H2'	81:H1:19:DT:H71	2.01	0.40
82:H2:21:DG:H2''	82:H2:22:DC:OP2	2.20	0.40
83:H3:36:DC:H5'	165:OD:14:DA:H1'	2.03	0.40
85:H6:8:DA:H1'	85:H6:9:DC:H5'	2.03	0.40
94:I3:18:DA:H1'	94:I3:19:DC:H5'	2.03	0.40
99:I9:2:DA:H1'	99:I9:3:DC:H5'	2.03	0.40
101:IC:19:DG:H2''	101:IC:20:DC:OP2	2.20	0.40
105:J3:14:DA:H1'	105:J3:15:DC:H5'	2.03	0.40
114:K1:13:DT:H2'	114:K1:14:DT:H71	2.00	0.40
122:KA:13:DG:H2''	122:KA:14:DC:OP2	2.19	0.40
123:KC:23:DG:H2''	123:KC:24:DA:O5'	2.21	0.40
125:L1:10:DG:H2''	125:L1:11:DA:O5'	2.21	0.40
125:L1:33:DG:H2''	125:L1:34:DA:O5'	2.21	0.40
134:LC:6:DA:H1'	134:LC:7:DC:H5'	2.03	0.40
138:M5:32:DG:H2''	138:M5:33:DA:OP2	2.21	0.40
143:MA:25:DA:H1'	143:MA:26:DC:H5'	2.03	0.40
144:MC:6:DG:H2''	144:MC:7:DC:OP2	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
148:N5:15:DA:H1'	148:N5:16:DC:H5'	2.03	0.40
148:N5:23:DA:H1'	148:N5:24:DC:H5'	2.03	0.40
151:N8:2:DG:H2''	151:N8:3:DA:O5'	2.21	0.40
152:N9:43:DG:H2''	152:N9:44:DA:O5'	2.21	0.40
152:N9:47:DG:H2''	152:N9:48:DA:O5'	2.21	0.40
153:NA:15:DG:H2''	153:NA:16:DC:OP2	2.19	0.40
161:O8:9:DG:H2''	161:O8:10:DA:OP2	2.21	0.40
165:OD:6:DG:H2''	165:OD:7:DA:O5'	2.21	0.40
167:P3:34:DT:H1'	167:P3:35:DC:H5'	2.02	0.40
169:P6:16:DG:H2''	169:P6:17:DA:O5'	2.21	0.40
170:P7:7:DC:H2'	170:P7:8:DT:H71	1.99	0.40
173:PA:4:DG:H2''	173:PA:5:DA:O5'	2.21	0.40
177:Q3:12:DT:H2'	177:Q3:13:DT:H71	2.00	0.40
183:QC:19:DG:H2''	183:QC:20:DA:O5'	2.21	0.40
187:R5:36:DA:OP1	223:V5:13:DG:H2''	2.21	0.40
192:RC:21:DC:H2'	192:RC:22:DT:H71	1.98	0.40
197:S7:14:DT:H1'	197:S7:15:DC:H5'	2.02	0.40
198:S8:34:DG:H2''	198:S8:35:DA:O5'	2.21	0.40
198:S8:36:DA:H1'	198:S8:37:DC:H5'	2.03	0.40
207:T8:20:DT:H1'	207:T8:21:DC:H5'	2.02	0.40
209:TA:33:DG:H2''	209:TA:34:DC:OP2	2.19	0.40
220:UD:10:DC:H2'	220:UD:11:DT:H71	1.99	0.40
220:UD:21:DA:H1'	220:UD:22:DC:H5'	2.03	0.40
223:V5:24:DT:H1'	223:V5:25:DC:H5'	2.02	0.40
223:V5:32:DG:C8	223:V5:33:DT:H72	2.55	0.40
224:V7:21:DG:H2''	224:V7:22:DA:OP2	2.21	0.40
228:VC:33:DG:H2''	228:VC:34:DA:O5'	2.21	0.40
231:W5:15:DT:H1'	231:W5:16:DC:H5'	2.02	0.40
237:X7:11:DT:H1'	237:X7:12:DC:H5'	2.02	0.40
1:A1:25:DA:H1'	1:A1:26:DC:H5'	2.03	0.40
1:A1:29:DG:C8	1:A1:30:DT:H72	2.55	0.40
2:A2:31:DA:H1'	130:L7:29:DC:H5'	2.03	0.40
10:AA:23:DG:H2''	161:O8:33:DA:O5'	2.21	0.40
11:AB:90:DG:H2''	11:AB:91:DC:OP2	2.20	0.40
11:AB:93:DG:H2''	11:AB:94:DA:O5'	2.21	0.40
11:AB:93:DG:H2''	11:AB:94:DA:OP2	2.21	0.40
11:AB:104:DA:H1'	11:AB:105:DC:H5'	2.03	0.40
11:AB:119:DT:H2'	11:AB:120:DT:H71	2.01	0.40
11:AB:190:DT:H1'	11:AB:191:DC:H5'	2.02	0.40
11:AB:207:DG:H2''	11:AB:208:DA:O5'	2.21	0.40
11:AB:279:DA:H1'	11:AB:280:DC:H5'	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:285:DG:H2''	11:AB:286:DA:O5'	2.21	0.40
11:AB:431:DT:H2'	11:AB:432:DT:H71	2.00	0.40
11:AB:460:DG:C8	11:AB:461:DT:H72	2.55	0.40
11:AB:476:DG:C8	11:AB:477:DT:H72	2.55	0.40
11:AB:736:DA:H1'	11:AB:737:DC:H5'	2.03	0.40
11:AB:751:DG:C8	11:AB:752:DT:H72	2.55	0.40
11:AB:871:DG:C8	11:AB:872:DT:H72	2.55	0.40
11:AB:974:DT:H2'	11:AB:975:DT:H71	2.00	0.40
11:AB:1036:DA:H1'	11:AB:1037:DC:H5'	2.03	0.40
11:AB:1047:DT:H1'	11:AB:1048:DC:H5'	2.02	0.40
11:AB:1050:DG:H2''	11:AB:1051:DA:OP2	2.22	0.40
11:AB:1080:DA:H1'	11:AB:1081:DC:H5'	2.03	0.40
11:AB:1150:DC:H2'	11:AB:1151:DT:H71	1.99	0.40
11:AB:1396:DC:H2'	11:AB:1397:DT:H71	1.99	0.40
11:AB:1418:DG:C8	11:AB:1419:DT:H72	2.55	0.40
11:AB:1464:DT:H1'	11:AB:1465:DC:H5'	2.02	0.40
11:AB:1481:DG:C8	11:AB:1482:DT:H72	2.55	0.40
11:AB:1484:DA:H1'	11:AB:1485:DC:H5'	2.03	0.40
11:AB:1495:DC:H2'	11:AB:1496:DT:H71	1.99	0.40
11:AB:1563:DT:H2'	11:AB:1564:DT:H71	2.00	0.40
11:AB:1579:DC:H2'	11:AB:1580:DT:H71	1.99	0.40
11:AB:1635:DT:H2'	11:AB:1636:DT:H71	2.01	0.40
11:AB:1694:DT:H1'	11:AB:1695:DC:H5'	2.02	0.40
11:AB:1695:DC:H2'	11:AB:1696:DT:H71	1.99	0.40
11:AB:1739:DG:H2'	11:AB:1740:DT:H71	2.02	0.40
11:AB:1936:DG:H2''	11:AB:1937:DA:O5'	2.21	0.40
11:AB:1994:DC:H2'	11:AB:1995:DT:H71	1.99	0.40
11:AB:2014:DG:H2''	11:AB:2015:DC:OP2	2.19	0.40
11:AB:2073:DG:H2''	11:AB:2074:DA:OP2	2.21	0.40
11:AB:2264:DC:H2'	11:AB:2265:DT:H71	1.99	0.40
11:AB:2287:DT:H72	11:AB:5506:DG:C8	2.55	0.40
11:AB:2371:DA:H1'	11:AB:2372:DC:H5'	2.03	0.40
11:AB:2447:DA:H1'	11:AB:2448:DC:H5'	2.03	0.40
11:AB:2548:DT:H2'	11:AB:2549:DT:H71	2.01	0.40
11:AB:2675:DC:H2'	11:AB:2676:DT:H71	1.99	0.40
11:AB:2680:DT:H2'	11:AB:2681:DT:H71	2.00	0.40
11:AB:2692:DC:H2'	11:AB:2693:DT:H71	1.99	0.40
11:AB:2863:DG:H2''	11:AB:2864:DA:O5'	2.21	0.40
11:AB:2883:DG:H2''	11:AB:2884:DC:OP2	2.20	0.40
11:AB:2901:DG:C8	11:AB:2902:DT:H72	2.55	0.40
11:AB:3004:DT:H2'	11:AB:3005:DT:H71	2.00	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3344:DC:H2'	11:AB:3345:DT:H71	1.99	0.40
11:AB:3430:DG:H2''	11:AB:3431:DA:OP2	2.21	0.40
11:AB:3515:DC:H2'	11:AB:3516:DT:H71	1.99	0.40
11:AB:3600:DG:H2'	11:AB:3601:DT:H71	2.02	0.40
11:AB:3629:DG:C8	11:AB:3630:DT:H72	2.55	0.40
11:AB:3791:DT:H72	11:AB:4462:DG:C8	2.55	0.40
11:AB:3900:DG:H2''	11:AB:3901:DA:OP2	2.22	0.40
11:AB:3906:DT:H2'	11:AB:3907:DT:H71	2.00	0.40
11:AB:3914:DG:C8	11:AB:3915:DT:H72	2.55	0.40
11:AB:3979:DT:H2'	11:AB:3980:DT:H71	2.01	0.40
11:AB:4042:DG:C8	11:AB:4043:DT:H72	2.55	0.40
11:AB:4068:DG:C8	11:AB:4069:DT:H72	2.55	0.40
11:AB:4103:DA:H1'	11:AB:4104:DC:H5'	2.03	0.40
11:AB:4188:DG:H2''	11:AB:4189:DC:OP2	2.19	0.40
11:AB:4236:DT:H2'	11:AB:4237:DT:H71	2.00	0.40
11:AB:4327:DT:H2'	11:AB:4328:DT:H71	2.00	0.40
11:AB:4330:DA:H1'	11:AB:4331:DC:H5'	2.03	0.40
11:AB:4400:DG:H2''	11:AB:4401:DC:OP2	2.20	0.40
11:AB:4431:DG:H2''	11:AB:4432:DA:O5'	2.21	0.40
11:AB:4646:DA:H1'	11:AB:4647:DC:H5'	2.03	0.40
11:AB:4714:DT:H2'	11:AB:4715:DT:H71	2.01	0.40
11:AB:4769:DT:H2'	11:AB:4770:DT:H71	2.00	0.40
11:AB:4774:DA:H1'	11:AB:4775:DC:H5'	2.03	0.40
11:AB:4781:DA:H1'	11:AB:4782:DC:H5'	2.03	0.40
11:AB:4834:DG:C8	11:AB:4835:DT:H72	2.55	0.40
11:AB:4838:DA:H1'	11:AB:4839:DC:H5'	2.03	0.40
11:AB:4912:DA:H1'	11:AB:4913:DC:H5'	2.03	0.40
11:AB:4948:DC:H2'	11:AB:4949:DT:H71	1.99	0.40
11:AB:5144:DA:H1'	11:AB:5145:DC:H5'	2.03	0.40
11:AB:5165:DA:H1'	11:AB:5166:DC:H5'	2.03	0.40
11:AB:5257:DG:H2''	11:AB:5258:DA:OP2	2.21	0.40
11:AB:5380:DC:H2'	11:AB:5381:DT:H71	1.99	0.40
11:AB:5396:DT:H1'	11:AB:5397:DC:H5'	2.02	0.40
11:AB:5434:DG:H2'	11:AB:5435:DT:H71	2.02	0.40
11:AB:5585:DC:H2'	11:AB:5586:DT:H71	1.99	0.40
11:AB:5673:DT:H2'	11:AB:5674:DT:H71	2.01	0.40
11:AB:5737:DA:H1'	11:AB:5738:DC:H5'	2.03	0.40
11:AB:5824:DG:H2''	11:AB:5825:DC:OP2	2.19	0.40
11:AB:5837:DG:H2'	11:AB:5838:DT:H71	2.02	0.40
11:AB:6088:DG:H2''	11:AB:6089:DA:OP2	2.22	0.40
11:AB:6170:DG:H2''	11:AB:6171:DA:O5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6182:DC:H2'	11:AB:6183:DT:H71	1.99	0.40
11:AB:6279:DG:C8	11:AB:6280:DT:H72	2.55	0.40
11:AB:6394:DT:H1'	11:AB:6395:DC:H5'	2.02	0.40
11:AB:6710:DT:H2'	11:AB:6711:DT:H71	2.01	0.40
11:AB:6831:DG:H2''	11:AB:6832:DC:OP2	2.20	0.40
11:AB:6842:DG:H2'	11:AB:6843:DT:H71	2.02	0.40
11:AB:6849:DG:C8	11:AB:6850:DT:H72	2.55	0.40
11:AB:6913:DT:H2'	11:AB:6914:DT:H71	2.01	0.40
11:AB:7129:DG:C8	11:AB:7130:DT:H72	2.55	0.40
11:AB:7219:DC:H2'	11:AB:7220:DT:H71	1.99	0.40
13:AD:31:DA:O5'	225:V8:24:DG:H2''	2.21	0.40
13:AD:31:DA:OP1	225:V8:24:DG:H2''	2.21	0.40
13:AD:35:DT:H2'	13:AD:36:DT:H71	2.01	0.40
14:B1:37:DT:H1'	14:B1:38:DC:H5'	2.02	0.40
15:B2:16:DG:H2''	15:B2:17:DA:O5'	2.21	0.40
21:B8:26:DG:OP1	31:C7:30:DG:OP1	2.40	0.40
22:B9:15:DC:H5'	67:FA:14:DA:H1'	2.03	0.40
28:C3:24:DG:H2''	28:C3:25:DA:O5'	2.21	0.40
31:C7:3:DG:C8	31:C7:4:DT:H72	2.55	0.40
36:CD:15:DA:OP1	156:O2:42:DG:H2''	2.22	0.40
41:D6:35:DG:H2''	181:Q9:26:DA:OP1	2.22	0.40
43:D8:18:DC:H2'	43:D8:19:DT:H71	1.99	0.40
47:DD:38:DG:H2''	47:DD:39:DC:OP2	2.19	0.40
48:E1:8:DC:H5'	231:W5:20:DA:H1'	2.03	0.40
49:E2:15:DT:H2'	49:E2:16:DT:H71	2.00	0.40
49:E2:18:DT:H1'	49:E2:19:DC:H5'	2.02	0.40
49:E2:24:DC:H2'	49:E2:25:DT:H71	1.99	0.40
49:E2:28:DG:H2''	49:E2:29:DA:O5'	2.21	0.40
55:E9:13:DG:H2''	55:E9:14:DA:OP2	2.22	0.40
56:EA:12:DG:C8	56:EA:13:DT:H72	2.55	0.40
60:F2:22:DG:H2''	60:F2:23:DC:OP2	2.20	0.40
60:F2:31:DT:H2'	60:F2:32:DT:H71	2.00	0.40
60:F2:33:DA:H1'	60:F2:34:DC:H5'	2.03	0.40
62:F5:9:DT:H2'	62:F5:10:DT:H71	2.00	0.40
63:F6:6:DG:H2''	63:F6:7:DA:OP2	2.22	0.40
64:F7:6:DT:H1'	64:F7:7:DC:H5'	2.02	0.40
70:G1:9:DA:H1'	70:G1:10:DC:H5'	2.03	0.40
72:G3:18:DT:H1'	72:G3:19:DC:H5'	2.02	0.40
73:G5:15:DA:OP1	117:K5:32:DG:H2''	2.21	0.40
82:H2:38:DG:H2''	82:H2:39:DC:OP2	2.19	0.40
86:H7:11:DG:H2''	86:H7:12:DA:O5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:H7:14:DG:H2''	86:H7:15:DA:O5'	2.21	0.40
89:HA:13:DG:H2''	89:HA:14:DA:OP2	2.22	0.40
89:HA:21:DA:H1'	89:HA:22:DC:H5'	2.03	0.40
91:HD:23:DA:H1'	91:HD:24:DC:H5'	2.03	0.40
93:I2:46:DC:H2'	93:I2:47:DT:H71	1.99	0.40
95:I5:15:DC:H5'	138:M5:35:DA:H1'	2.03	0.40
97:I7:9:DA:H1'	97:I7:10:DC:H5'	2.03	0.40
104:J2:13:DG:H2''	104:J2:14:DA:O5'	2.22	0.40
106:J5:1:DA:H1'	106:J5:2:DC:H5'	2.03	0.40
107:J6:12:DG:H2''	107:J6:13:DA:OP2	2.21	0.40
108:J7:50:DC:H5'	211:TD:35:DA:H1'	2.03	0.40
109:J8:8:DA:H1'	109:J8:9:DC:H5'	2.03	0.40
111:JA:14:DA:H1'	111:JA:15:DC:H5'	2.03	0.40
119:K7:40:DC:H2'	119:K7:41:DT:H71	1.99	0.40
122:KA:24:DA:H1'	122:KA:25:DC:H5'	2.03	0.40
122:KA:28:DG:H2''	124:KD:17:DA:O5'	2.21	0.40
123:KC:23:DG:H2''	123:KC:24:DA:OP2	2.21	0.40
124:KD:3:DA:H1'	124:KD:4:DC:H5'	2.03	0.40
124:KD:21:DT:H2'	124:KD:22:DT:H71	2.01	0.40
125:L1:35:DA:H1'	125:L1:36:DC:H5'	2.03	0.40
128:L5:19:DA:H1'	128:L5:20:DC:H5'	2.03	0.40
129:L6:7:DT:H2'	129:L6:8:DT:H71	2.01	0.40
141:M8:16:DA:H1'	141:M8:17:DC:H5'	2.03	0.40
141:M8:21:DG:C8	141:M8:22:DT:H72	2.55	0.40
142:M9:1:DG:H2''	142:M9:2:DA:O5'	2.21	0.40
149:N6:3:DC:H2'	149:N6:4:DT:H71	1.99	0.40
152:N9:29:DG:H2''	152:N9:30:DA:O5'	2.21	0.40
153:NA:7:DG:C8	153:NA:8:DT:H72	2.55	0.40
154:NC:11:DA:O5'	174:PC:20:DG:H2''	2.21	0.40
154:NC:15:DT:H2'	154:NC:16:DT:H71	2.01	0.40
157:O3:1:DG:H2''	157:O3:2:DA:O5'	2.21	0.40
160:O7:24:DT:H2'	160:O7:25:DT:H71	2.01	0.40
165:OD:15:DA:H1'	165:OD:16:DC:H5'	2.03	0.40
165:OD:35:DG:H2''	165:OD:36:DA:OP2	2.21	0.40
172:P9:17:DC:H2'	172:P9:18:DT:H71	1.99	0.40
180:Q8:20:DT:H1'	180:Q8:21:DC:H5'	2.02	0.40
182:QA:15:DG:H2''	182:QA:16:DA:O5'	2.21	0.40
187:R5:21:DG:H2''	187:R5:22:DA:OP2	2.21	0.40
195:S3:22:DG:H2''	195:S3:23:DA:O5'	2.21	0.40
198:S8:16:DA:H1'	198:S8:17:DC:H5'	2.03	0.40
206:T7:36:DG:H2''	206:T7:37:DA:OP2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
210:TC:6:DC:H2'	210:TC:7:DT:H71	1.99	0.40
210:TC:21:DA:H1'	210:TC:22:DC:H5'	2.03	0.40
211:TD:17:DG:C8	211:TD:18:DT:H72	2.55	0.40
221:V2:7:DG:C8	221:V2:8:DT:H72	2.55	0.40
226:V9:16:DG:C8	226:V9:17:DT:H72	2.55	0.40
227:VA:15:DA:H1'	227:VA:16:DC:H5'	2.03	0.40
231:W5:24:DG:H2''	231:W5:25:DA:OP2	2.21	0.40
234:W9:9:DT:H1'	234:W9:10:DC:H5'	2.02	0.40
1:A1:27:DA:H1'	1:A1:28:DC:H5'	2.03	0.40
2:A2:23:DG:H2''	2:A2:24:DA:O5'	2.21	0.40
6:A6:13:DA:H1'	6:A6:14:DC:H5'	2.03	0.40
10:AA:23:DG:H2''	161:O8:33:DA:OP1	2.21	0.40
11:AB:286:DA:H2'	11:AB:287:DT:H71	2.00	0.40
11:AB:348:DG:H2''	11:AB:349:DA:O5'	2.21	0.40
11:AB:698:DT:H2'	11:AB:699:DT:H71	2.00	0.40
11:AB:760:DG:H2''	11:AB:761:DA:O5'	2.21	0.40
11:AB:1048:DC:H2'	11:AB:1049:DT:H71	1.99	0.40
11:AB:1093:DC:H2'	11:AB:1094:DT:H71	1.99	0.40
11:AB:1147:DC:H2'	11:AB:1148:DT:H71	1.99	0.40
11:AB:1208:DA:H1'	11:AB:1209:DC:H5'	2.03	0.40
11:AB:1212:DT:H2'	11:AB:1213:DT:H71	2.01	0.40
11:AB:1275:DG:H2'	11:AB:1276:DT:H71	2.02	0.40
11:AB:1386:DT:H1'	11:AB:1387:DC:H5'	2.02	0.40
11:AB:1597:DT:H1'	11:AB:1598:DC:H5'	2.02	0.40
11:AB:1804:DG:H2''	11:AB:1805:DA:O5'	2.21	0.40
11:AB:1911:DT:H2'	11:AB:1912:DT:H71	2.00	0.40
11:AB:1920:DA:H1'	11:AB:1921:DC:H5'	2.03	0.40
11:AB:2001:DG:H2''	11:AB:2002:DA:O5'	2.21	0.40
11:AB:2073:DG:H2''	11:AB:2074:DA:O5'	2.21	0.40
11:AB:2091:DG:H2''	11:AB:2092:DA:O5'	2.21	0.40
11:AB:2391:DG:H2''	11:AB:2392:DC:OP2	2.19	0.40
11:AB:2496:DA:H1'	11:AB:2497:DC:H5'	2.03	0.40
11:AB:2522:DT:H1'	11:AB:2523:DC:H5'	2.03	0.40
11:AB:2615:DG:H2''	11:AB:2616:DA:OP2	2.22	0.40
11:AB:2763:DA:H1'	11:AB:2764:DC:H5'	2.03	0.40
11:AB:3010:DT:H1'	11:AB:3011:DC:H5'	2.02	0.40
11:AB:3124:DG:H2''	11:AB:3125:DA:O5'	2.21	0.40
11:AB:3228:DA:H1'	11:AB:3229:DC:H5'	2.03	0.40
11:AB:3289:DG:H2''	11:AB:3290:DA:O5'	2.21	0.40
11:AB:3320:DC:H2'	11:AB:3321:DT:H71	1.99	0.40
11:AB:3349:DT:H2'	11:AB:3350:DT:H71	2.00	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3358:DA:H1'	11:AB:3359:DC:H5'	2.03	0.40
11:AB:3364:DG:H2''	11:AB:3365:DA:OP2	2.21	0.40
11:AB:3406:DG:H2''	11:AB:3407:DA:OP2	2.21	0.40
11:AB:3440:DT:H2'	11:AB:3441:DT:H71	2.00	0.40
11:AB:3452:DC:H2'	11:AB:3453:DT:H71	1.99	0.40
11:AB:3494:DT:H1'	11:AB:3495:DC:H5'	2.02	0.40
11:AB:3645:DC:H2'	11:AB:3646:DT:H71	1.99	0.40
11:AB:3739:DG:H2'	11:AB:3740:DT:H71	2.02	0.40
11:AB:3827:DC:H2'	11:AB:3828:DT:H71	1.99	0.40
11:AB:3978:DT:H2'	11:AB:3979:DT:H71	2.01	0.40
11:AB:4114:DG:H2''	11:AB:4115:DA:OP2	2.22	0.40
11:AB:4180:DG:H2'	11:AB:4181:DT:H71	2.02	0.40
11:AB:4218:DT:H2''	11:AB:4219:DC:OP2	2.22	0.40
11:AB:4256:DG:H2''	11:AB:4257:DA:O5'	2.21	0.40
11:AB:4257:DA:H1'	11:AB:4258:DC:H5'	2.03	0.40
11:AB:4280:DG:H2''	11:AB:4281:DA:O5'	2.21	0.40
11:AB:4329:DG:H2''	11:AB:4330:DA:O5'	2.21	0.40
11:AB:4496:DG:H2''	11:AB:4497:DC:OP2	2.19	0.40
11:AB:4499:DA:H1'	11:AB:4500:DC:H5'	2.03	0.40
11:AB:4613:DT:H2'	11:AB:4614:DT:H71	2.00	0.40
11:AB:4683:DG:H2''	11:AB:4684:DA:O5'	2.21	0.40
11:AB:4807:DG:H2''	11:AB:4808:DA:O5'	2.21	0.40
11:AB:4907:DA:H1'	11:AB:4908:DC:H5'	2.03	0.40
11:AB:5087:DG:H2''	11:AB:5088:DA:OP2	2.22	0.40
11:AB:5134:DG:H2''	11:AB:5135:DC:OP2	2.20	0.40
11:AB:5163:DT:H2'	11:AB:5164:DT:H71	2.00	0.40
11:AB:5333:DA:H1'	11:AB:5334:DC:H5'	2.03	0.40
11:AB:5350:DA:H1'	11:AB:5351:DC:H5'	2.03	0.40
11:AB:5384:DT:H2'	11:AB:5385:DT:H71	2.00	0.40
11:AB:5397:DC:H2'	11:AB:5398:DT:H71	1.98	0.40
11:AB:5399:DG:H2''	11:AB:5400:DA:OP2	2.22	0.40
11:AB:5479:DT:H2''	11:AB:5480:DC:OP2	2.22	0.40
11:AB:5554:DA:H1'	11:AB:5555:DC:H5'	2.03	0.40
11:AB:5560:DG:H2''	11:AB:5561:DA:O5'	2.21	0.40
11:AB:5589:DC:H2'	11:AB:5590:DT:H71	1.99	0.40
11:AB:5606:DC:H2'	11:AB:5607:DT:H71	1.99	0.40
11:AB:5672:DT:H2'	11:AB:5673:DT:H71	2.01	0.40
11:AB:5893:DG:H2'	11:AB:5894:DT:H71	2.02	0.40
11:AB:5900:DA:H1'	11:AB:5901:DC:H5'	2.03	0.40
11:AB:6072:DG:H2''	11:AB:6073:DA:O5'	2.21	0.40
11:AB:6094:DT:H2'	11:AB:6095:DT:H71	2.00	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6111:DT:H2''	11:AB:6112:DC:OP2	2.22	0.40
11:AB:6229:DG:H2''	11:AB:6230:DA:O5'	2.21	0.40
11:AB:6288:DA:H1'	11:AB:6289:DC:H5'	2.03	0.40
11:AB:6318:DG:H2''	11:AB:6319:DA:O5'	2.21	0.40
11:AB:6346:DG:H2''	11:AB:6347:DA:O5'	2.21	0.40
11:AB:6721:DC:H2'	11:AB:6722:DT:H71	1.99	0.40
11:AB:6898:DA:H1'	11:AB:6899:DC:H5'	2.03	0.40
11:AB:6905:DG:H2''	11:AB:6906:DC:OP2	2.19	0.40
11:AB:7076:DT:H1'	11:AB:7077:DC:H5'	2.02	0.40
11:AB:7202:DG:H2''	11:AB:7203:DA:O5'	2.21	0.40
11:AB:7237:DC:H2'	11:AB:7238:DT:H71	1.99	0.40
11:AB:7247:DG:H2''	11:AB:7248:DA:O5'	2.21	0.40
13:AD:28:DG:H2''	13:AD:29:DC:OP2	2.20	0.40
14:B1:9:DG:H2''	14:B1:10:DA:O5'	2.21	0.40
15:B2:17:DA:H2'	15:B2:18:DT:H71	2.00	0.40
18:B5:29:DG:H2''	18:B5:30:DA:O5'	2.21	0.40
19:B6:17:DG:H2'	19:B6:18:DT:H71	2.02	0.40
20:B7:7:DA:H1'	20:B7:8:DC:H5'	2.03	0.40
23:BA:17:DG:H2''	23:BA:18:DC:OP2	2.19	0.40
25:BD:5:DA:H1'	25:BD:6:DC:H5'	2.03	0.40
27:C2:9:DG:H2''	27:C2:10:DA:O5'	2.21	0.40
28:C3:21:DG:H2''	28:C3:22:DA:O5'	2.21	0.40
29:C5:10:DG:H2''	29:C5:11:DA:O5'	2.21	0.40
33:C9:1:DG:OP2	67:FA:18:DG:OP1	2.39	0.40
33:C9:11:DA:H1'	33:C9:12:DC:H5'	2.03	0.40
38:D2:1:DG:H2''	38:D2:2:DA:OP2	2.21	0.40
39:D3:20:DG:H2''	39:D3:21:DA:O5'	2.21	0.40
41:D6:40:DT:H2'	41:D6:41:DT:H71	2.01	0.40
45:DA:22:DG:H2''	45:DA:23:DA:O5'	2.21	0.40
49:E2:37:DA:H1'	108:J7:22:DC:H5'	2.03	0.40
52:E6:12:DA:H1'	52:E6:13:DC:H5'	2.03	0.40
55:E9:42:DA:OP1	81:H1:13:DG:H2''	2.22	0.40
56:EA:5:DG:H2'	56:EA:6:DT:H71	2.02	0.40
60:F2:25:DG:H2''	130:L7:15:DA:O5'	2.21	0.40
63:F6:14:DA:H1'	63:F6:15:DC:H5'	2.03	0.40
67:FA:18:DG:H2''	67:FA:19:DC:OP2	2.19	0.40
70:G1:2:DA:H1'	70:G1:3:DC:H5'	2.03	0.40
73:G5:15:DA:O5'	117:K5:32:DG:H2''	2.21	0.40
75:G7:9:DA:H1'	75:G7:10:DC:H5'	2.03	0.40
78:GA:13:DG:H2''	78:GA:14:DA:O5'	2.21	0.40
82:H2:30:DG:H2''	82:H2:31:DA:OP2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:H6:24:DC:H2'	85:H6:25:DT:H71	1.99	0.40
91:HD:22:DG:H2''	91:HD:23:DA:O5'	2.21	0.40
104:J2:36:DA:H1'	104:J2:37:DC:H5'	2.03	0.40
111:JA:13:DG:H2''	111:JA:14:DA:O5'	2.21	0.40
113:JD:14:DG:H2''	132:L9:15:DA:OP1	2.22	0.40
114:K1:10:DG:H2''	114:K1:11:DA:OP2	2.22	0.40
126:L2:7:DA:H1'	126:L2:8:DC:H5'	2.03	0.40
126:L2:24:DG:H2''	126:L2:25:DA:OP2	2.21	0.40
130:L7:56:DG:H2''	130:L7:57:DA:OP2	2.22	0.40
133:LA:9:DT:H2'	133:LA:10:DT:H71	2.00	0.40
133:LA:13:DG:C8	133:LA:14:DT:H72	2.55	0.40
135:LD:14:DA:O5'	143:MA:41:DG:H2''	2.21	0.40
135:LD:14:DA:OP1	143:MA:41:DG:H2''	2.21	0.40
141:M8:26:DA:H1'	141:M8:27:DC:H5'	2.03	0.40
143:MA:11:DG:H2''	143:MA:12:DC:OP2	2.20	0.40
143:MA:37:DA:H1'	143:MA:38:DC:H5'	2.03	0.40
147:N3:22:DA:H1'	147:N3:23:DC:H5'	2.03	0.40
151:N8:4:DA:H1'	151:N8:5:DC:H5'	2.03	0.40
155:ND:3:DG:C8	155:ND:4:DT:H72	2.55	0.40
161:O8:15:DT:H1'	161:O8:16:DC:H5'	2.02	0.40
162:O9:14:DA:O5'	191:RA:27:DG:H2''	2.21	0.40
162:O9:14:DA:OP1	191:RA:27:DG:H2''	2.21	0.40
165:OD:35:DG:H2''	165:OD:36:DA:O5'	2.21	0.40
166:P2:15:DT:H2'	166:P2:16:DT:H71	2.00	0.40
167:P3:4:DG:H2''	167:P3:5:DA:O5'	2.21	0.40
167:P3:18:DA:H1'	167:P3:19:DC:H5'	2.03	0.40
170:P7:17:DG:H2''	170:P7:18:DA:OP2	2.21	0.40
171:P8:16:DA:H1'	171:P8:17:DC:H5'	2.03	0.40
180:Q8:15:DT:H2''	180:Q8:16:DC:OP2	2.22	0.40
182:QA:2:DG:H2''	182:QA:3:DA:O5'	2.21	0.40
183:QC:16:DA:H1'	189:R8:15:DC:H5'	2.03	0.40
184:QD:11:DT:H2'	184:QD:12:DT:H71	2.00	0.40
187:R5:21:DG:H2''	187:R5:22:DA:O5'	2.21	0.40
187:R5:32:DT:H1'	187:R5:33:DC:H5'	2.02	0.40
187:R5:36:DA:O5'	223:V5:13:DG:H2''	2.21	0.40
195:S3:13:DT:H2''	195:S3:14:DC:OP2	2.22	0.40
196:S5:15:DA:H1'	196:S5:16:DC:H5'	2.03	0.40
196:S5:19:DA:H1'	196:S5:20:DC:H5'	2.03	0.40
197:S7:3:DA:H1'	197:S7:4:DC:H5'	2.03	0.40
198:S8:27:DG:H2''	198:S8:28:DA:OP2	2.22	0.40
198:S8:29:DG:H2''	198:S8:30:DA:O5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
198:S8:32:DA:H1'	198:S8:33:DC:H5'	2.03	0.40
199:S9:14:DT:H1'	199:S9:15:DC:H5'	2.02	0.40
199:S9:20:DG:H2''	199:S9:21:DC:OP2	2.20	0.40
201:SC:8:DA:H1'	201:SC:9:DC:H5'	2.03	0.40
202:SD:6:DG:H2''	202:SD:7:DA:O5'	2.21	0.40
202:SD:6:DG:H2''	202:SD:7:DA:OP2	2.21	0.40
205:T5:7:DT:H1'	205:T5:8:DC:H5'	2.02	0.40
205:T5:13:DA:H1'	205:T5:14:DC:H5'	2.03	0.40
211:TD:6:DT:H2'	211:TD:7:DT:H71	2.00	0.40
221:V2:17:DT:H2'	221:V2:18:DT:H71	2.00	0.40
228:VC:12:DG:H2''	228:VC:13:DC:OP2	2.20	0.40
230:W3:30:DT:H1'	230:W3:31:DC:H5'	2.02	0.40
231:W5:33:DA:H1'	231:W5:34:DC:H5'	2.03	0.40
232:W7:23:DG:H2'	232:W7:24:DT:H71	2.02	0.40
238:X9:42:DA:H1'	238:X9:43:DC:H5'	2.03	0.40
238:X9:49:DG:H2''	238:X9:50:DC:OP2	2.20	0.40
3:A3:20:DG:H2''	3:A3:21:DA:OP2	2.21	0.40
8:A8:16:DG:H2'	126:L2:21:DT:H71	2.02	0.40
11:AB:234:DT:H1'	11:AB:235:DC:H5'	2.02	0.40
11:AB:351:DG:H2''	11:AB:352:DA:OP2	2.21	0.40
11:AB:520:DT:H2''	11:AB:521:DC:OP2	2.22	0.40
11:AB:563:DT:H1'	11:AB:564:DC:H5'	2.02	0.40
11:AB:614:DG:H2''	11:AB:615:DA:O5'	2.21	0.40
11:AB:863:DC:H2'	11:AB:864:DT:H71	1.99	0.40
11:AB:989:DG:H2''	11:AB:990:DA:OP2	2.21	0.40
11:AB:1016:DG:H2''	11:AB:1017:DA:OP2	2.22	0.40
11:AB:1060:DG:H2''	11:AB:1061:DC:OP2	2.20	0.40
11:AB:1155:DG:H2''	11:AB:1156:DA:O5'	2.21	0.40
11:AB:1229:DT:H1'	11:AB:1230:DC:H5'	2.02	0.40
11:AB:1245:DC:H2'	11:AB:1246:DT:H71	1.99	0.40
11:AB:1621:DA:H1'	11:AB:1622:DC:H5'	2.03	0.40
11:AB:1775:DT:H2'	11:AB:1776:DT:H71	2.01	0.40
11:AB:2011:DA:H1'	11:AB:2012:DC:H5'	2.03	0.40
11:AB:2081:DG:H2''	11:AB:2082:DC:OP2	2.20	0.40
11:AB:2135:DT:H2''	11:AB:2136:DC:OP2	2.22	0.40
11:AB:2151:DT:H1'	11:AB:2152:DC:H5'	2.02	0.40
11:AB:2169:DG:H2''	11:AB:2170:DC:OP2	2.20	0.40
11:AB:2223:DA:H1'	11:AB:2224:DC:H5'	2.03	0.40
11:AB:2257:DT:H2'	11:AB:2258:DT:H71	2.01	0.40
11:AB:2277:DC:H2'	11:AB:2278:DT:H71	1.99	0.40
11:AB:2288:DA:H1'	11:AB:2289:DC:H5'	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2299:DT:H2'	11:AB:2300:DT:H71	2.01	0.40
11:AB:2332:DC:H2'	11:AB:2333:DT:H71	1.99	0.40
11:AB:2337:DG:H2''	11:AB:2338:DA:OP2	2.22	0.40
11:AB:2540:DG:H2''	11:AB:2541:DA:OP2	2.21	0.40
11:AB:2547:DT:H2'	11:AB:2548:DT:H71	2.01	0.40
11:AB:2649:DT:H2''	11:AB:2650:DC:OP2	2.22	0.40
11:AB:2723:DA:H1'	11:AB:2724:DC:H5'	2.03	0.40
11:AB:2752:DT:H2'	11:AB:2753:DT:H71	2.01	0.40
11:AB:2968:DT:H1'	11:AB:2969:DC:H5'	2.02	0.40
11:AB:2986:DG:H2''	11:AB:2987:DA:O5'	2.21	0.40
11:AB:3040:DG:H2'	11:AB:3041:DT:H71	2.02	0.40
11:AB:3130:DG:H2''	11:AB:3131:DA:OP2	2.22	0.40
11:AB:3503:DT:H2'	11:AB:3504:DT:H71	2.00	0.40
11:AB:3674:DC:H2'	11:AB:3675:DT:H71	1.99	0.40
11:AB:3779:DG:H2''	11:AB:3780:DC:OP2	2.20	0.40
11:AB:3792:DT:H2''	11:AB:3793:DC:OP2	2.22	0.40
11:AB:4158:DT:H1'	11:AB:4159:DC:H5'	2.02	0.40
11:AB:4338:DG:H2'	11:AB:4339:DT:H71	2.02	0.40
11:AB:4358:DG:H2''	11:AB:4359:DA:O5'	2.21	0.40
11:AB:4383:DA:H1'	11:AB:4384:DC:H5'	2.03	0.40
11:AB:4407:DT:H2'	11:AB:4408:DT:H71	2.01	0.40
11:AB:4563:DA:H1'	11:AB:4564:DC:H5'	2.03	0.40
11:AB:4566:DA:H1'	11:AB:4567:DC:H5'	2.03	0.40
11:AB:4581:DA:H1'	11:AB:4582:DC:H5'	2.03	0.40
11:AB:4713:DT:H2'	11:AB:4714:DT:H71	2.01	0.40
11:AB:4725:DG:H2''	11:AB:4726:DC:OP2	2.20	0.40
11:AB:4892:DG:H2''	11:AB:4893:DA:OP2	2.21	0.40
11:AB:5005:DG:H2''	11:AB:5006:DA:O5'	2.21	0.40
11:AB:5062:DG:H2''	11:AB:5063:DC:OP2	2.20	0.40
11:AB:5066:DG:H2''	11:AB:5067:DA:OP2	2.22	0.40
11:AB:5155:DC:H2'	11:AB:5156:DT:H71	1.99	0.40
11:AB:5376:DC:H2'	11:AB:5377:DT:H71	1.99	0.40
11:AB:5413:DG:H2'	11:AB:5414:DT:H71	2.02	0.40
11:AB:5415:DA:H1'	11:AB:5416:DC:H5'	2.03	0.40
11:AB:5460:DT:H1'	11:AB:5461:DC:H5'	2.02	0.40
11:AB:5686:DG:H2''	11:AB:5687:DA:OP2	2.21	0.40
11:AB:5704:DG:H2''	11:AB:5705:DC:OP2	2.20	0.40
11:AB:5864:DG:H2''	11:AB:5865:DC:OP2	2.20	0.40
11:AB:5875:DG:H2''	11:AB:5876:DA:O5'	2.21	0.40
11:AB:5966:DT:H2'	11:AB:5967:DT:H71	2.01	0.40
11:AB:6053:DC:H2'	11:AB:6054:DT:H71	1.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6073:DA:H1'	11:AB:6074:DC:H5'	2.03	0.40
11:AB:6124:DG:H2''	11:AB:6125:DA:O5'	2.21	0.40
11:AB:6151:DG:H2''	11:AB:6152:DA:OP2	2.21	0.40
11:AB:6250:DG:H2''	11:AB:6251:DA:O5'	2.21	0.40
11:AB:6292:DT:H2'	11:AB:6293:DT:H71	2.01	0.40
11:AB:6376:DA:H1'	11:AB:6377:DC:H5'	2.03	0.40
11:AB:6705:DA:H1'	11:AB:6706:DC:H5'	2.03	0.40
11:AB:6707:DT:H2''	11:AB:6708:DC:OP2	2.22	0.40
11:AB:6780:DG:H2''	11:AB:6781:DA:OP2	2.21	0.40
11:AB:6785:DT:H2''	11:AB:6786:DC:OP2	2.22	0.40
11:AB:6893:DG:H2''	11:AB:6894:DA:O5'	2.21	0.40
11:AB:6914:DT:H2''	11:AB:6915:DC:OP2	2.22	0.40
11:AB:6987:DA:H1'	11:AB:6988:DC:H5'	2.03	0.40
11:AB:7113:DA:H1'	11:AB:7114:DC:H5'	2.03	0.40
11:AB:7191:DC:H2'	11:AB:7192:DT:H71	1.99	0.40
11:AB:7235:DG:H2''	11:AB:7236:DC:OP2	2.20	0.40
18:B5:15:DG:H2''	18:B5:16:DA:O5'	2.21	0.40
19:B6:21:DT:H2''	19:B6:22:DC:OP2	2.22	0.40
24:BC:28:DG:H2''	24:BC:29:DA:O5'	2.21	0.40
24:BC:39:DG:H2''	24:BC:40:DC:OP2	2.20	0.40
28:C3:22:DA:H1'	28:C3:23:DC:H5'	2.03	0.40
30:C6:10:DT:H1'	30:C6:11:DC:H5'	2.02	0.40
31:C7:15:DG:H2'	31:C7:16:DT:H71	2.02	0.40
33:C9:5:DC:OP1	145:MD:58:DT:H2''	2.22	0.40
33:C9:27:DT:H1'	77:G9:1:DC:H5'	2.02	0.40
36:CD:3:DG:H2''	36:CD:4:DA:OP2	2.22	0.40
36:CD:10:DA:H1'	36:CD:11:DC:H5'	2.03	0.40
41:D6:18:DG:OP1	108:J7:53:DG:OP1	2.40	0.40
41:D6:19:DG:H2''	41:D6:20:DC:OP2	2.20	0.40
41:D6:39:DT:H2'	41:D6:40:DT:H71	2.01	0.40
47:DD:29:DG:H2''	47:DD:30:DC:OP2	2.19	0.40
47:DD:32:DA:H1'	47:DD:33:DC:H5'	2.03	0.40
49:E2:40:DG:H2''	49:E2:41:DA:OP2	2.22	0.40
55:E9:38:DG:H2''	55:E9:39:DA:OP2	2.21	0.40
55:E9:38:DG:OP1	143:MA:45:DG:OP1	2.40	0.40
57:EC:3:DA:H1'	57:EC:4:DC:H5'	2.03	0.40
59:F1:6:DT:H2''	59:F1:7:DC:OP2	2.22	0.40
60:F2:3:DA:H1'	60:F2:4:DC:H5'	2.03	0.40
60:F2:11:DA:H1'	206:T7:32:DC:H5'	2.03	0.40
63:F6:20:DA:H1'	63:F6:21:DC:H5'	2.03	0.40
64:F7:16:DT:H1'	64:F7:17:DC:H5'	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:F8:8:DT:H2''	87:H8:18:DC:OP1	2.22	0.40
67:FA:27:DG:H2''	67:FA:28:DA:O5'	2.21	0.40
72:G3:12:DT:H1'	72:G3:13:DC:H5'	2.02	0.40
73:G5:14:DG:H2''	117:K5:33:DA:OP1	2.22	0.40
84:H5:28:DA:H1'	84:H5:29:DC:H5'	2.03	0.40
89:HA:25:DG:H2''	89:HA:26:DA:OP2	2.22	0.40
94:I3:33:DG:H2''	94:I3:34:DA:O5'	2.21	0.40
95:I5:6:DT:H2''	95:I5:7:DC:OP2	2.22	0.40
96:I6:6:DT:H2'	96:I6:7:DT:H71	2.01	0.40
100:IA:10:DA:H1'	100:IA:11:DC:H5'	2.03	0.40
102:ID:2:DG:H2''	102:ID:3:DA:OP2	2.21	0.40
102:ID:11:DA:H1'	102:ID:12:DC:H5'	2.03	0.40
102:ID:13:DC:H5'	175:PD:13:DA:H1'	2.03	0.40
102:ID:33:DT:H2''	114:K1:1:DC:OP1	2.22	0.40
104:J2:24:DA:H1'	104:J2:25:DC:H5'	2.03	0.40
105:J3:9:DG:H2''	105:J3:10:DA:OP2	2.22	0.40
105:J3:12:DT:H2'	105:J3:13:DT:H71	2.01	0.40
108:J7:11:DG:OP1	188:R7:13:DG:OP1	2.40	0.40
114:K1:44:DG:H2''	114:K1:45:DA:O5'	2.21	0.40
115:K2:22:DT:H2'	115:K2:23:DT:H71	2.00	0.40
121:K9:21:DC:H5'	200:SA:16:DA:H1'	2.03	0.40
122:KA:11:DG:OP1	173:PA:4:DG:OP1	2.40	0.40
122:KA:28:DG:H2''	124:KD:17:DA:OP1	2.21	0.40
123:KC:27:DT:H2'	123:KC:28:DT:H71	2.01	0.40
125:L1:25:DG:H2''	125:L1:26:DC:OP2	2.20	0.40
126:L2:41:DA:H1'	126:L2:42:DC:H5'	2.03	0.40
130:L7:20:DT:H2''	130:L7:21:DC:OP2	2.22	0.40
132:L9:11:DG:OP1	218:UA:18:DG:OP1	2.40	0.40
138:M5:1:DC:H5'	223:V5:41:DT:H1'	2.02	0.40
150:N7:20:DG:H2''	150:N7:21:DA:O5'	2.21	0.40
151:N8:8:DT:H1'	151:N8:9:DC:H5'	2.02	0.40
154:NC:11:DA:OP1	174:PC:20:DG:H2''	2.21	0.40
156:O2:12:DC:H2'	156:O2:13:DT:H71	1.99	0.40
158:O5:32:DG:H2''	158:O5:33:DA:OP2	2.22	0.40
160:O7:1:DG:H2''	160:O7:2:DC:OP2	2.20	0.40
160:O7:23:DT:H2'	160:O7:24:DT:H71	2.01	0.40
165:OD:1:DC:OP1	238:X9:17:DT:H2''	2.22	0.40
165:OD:32:DG:H2''	165:OD:33:DA:OP2	2.21	0.40
171:P8:7:DC:H2'	171:P8:8:DT:H71	1.99	0.40
173:PA:8:DA:H1'	173:PA:9:DC:H5'	2.03	0.40
181:Q9:21:DA:H1'	181:Q9:22:DC:H5'	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
183:QC:17:DA:H1'	183:QC:18:DC:H5'	2.03	0.40
188:R7:14:DG:H2''	188:R7:15:DC:OP2	2.20	0.40
188:R7:22:DA:H1'	188:R7:23:DC:H5'	2.03	0.40
198:S8:44:DA:H1'	198:S8:45:DC:H5'	2.03	0.40
204:T3:5:DG:H2''	204:T3:6:DC:OP2	2.20	0.40
204:T3:27:DT:H2''	204:T3:28:DC:OP2	2.22	0.40
209:TA:6:DG:H2''	209:TA:7:DA:O5'	2.21	0.40
209:TA:9:DG:H2''	209:TA:10:DA:OP2	2.22	0.40
214:U5:10:DC:H2'	214:U5:11:DT:H71	1.99	0.40
215:U7:12:DC:H2'	215:U7:13:DT:H71	1.99	0.40
217:U9:24:DG:H2''	217:U9:25:DA:O5'	2.21	0.40
218:UA:11:DG:H2''	218:UA:12:DA:OP2	2.21	0.40
221:V2:5:DA:H1'	221:V2:6:DC:H5'	2.03	0.40
222:V3:12:DG:H2''	222:V3:13:DA:O5'	2.21	0.40
226:V9:20:DA:H1'	226:V9:21:DC:H5'	2.03	0.40
227:VA:5:DG:H2''	227:VA:6:DA:O5'	2.21	0.40
230:W3:5:DT:H1'	230:W3:6:DC:H5'	2.02	0.40
234:W9:16:DG:H2''	234:W9:17:DA:O5'	2.21	0.40
236:X5:19:DG:H2''	236:X5:20:DA:OP2	2.22	0.40
238:X9:55:DG:H2''	238:X9:56:DA:OP2	2.22	0.40
238:X9:58:DA:H1'	238:X9:59:DC:H5'	2.03	0.40
2:A2:7:DG:OP1	117:K5:43:DG:OP1	2.40	0.40
4:A4:28:DT:H2'	4:A4:29:DT:H71	2.01	0.40
5:A5:29:DA:H1'	5:A5:30:DC:H5'	2.03	0.40
9:A9:4:DT:H2'	9:A9:5:DT:H71	2.01	0.40
11:AB:47:DA:H1'	11:AB:48:DC:H5'	2.03	0.40
11:AB:57:DT:H2''	11:AB:58:DC:OP2	2.22	0.40
11:AB:116:DT:H2''	11:AB:117:DC:OP2	2.22	0.40
11:AB:356:DT:H1'	11:AB:357:DC:H5'	2.01	0.40
11:AB:470:DT:H2''	11:AB:471:DC:OP2	2.22	0.40
11:AB:523:DA:H1'	11:AB:524:DC:H5'	2.03	0.40
11:AB:536:DG:H2''	11:AB:537:DC:OP2	2.19	0.40
11:AB:569:DT:H1'	11:AB:570:DC:H5'	2.02	0.40
11:AB:611:DT:H1'	11:AB:612:DC:H5'	2.02	0.40
11:AB:726:DG:H2''	11:AB:727:DC:OP2	2.20	0.40
11:AB:903:DT:H2''	11:AB:904:DC:OP2	2.22	0.40
11:AB:921:DG:H2''	11:AB:922:DA:OP2	2.21	0.40
11:AB:943:DG:H2''	11:AB:944:DC:OP2	2.20	0.40
11:AB:1078:DC:H2'	11:AB:1079:DT:H71	1.99	0.40
11:AB:1126:DG:H2''	11:AB:1127:DC:OP2	2.20	0.40
11:AB:1183:DC:H2'	11:AB:1184:DT:H71	1.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1189:DT:H2''	11:AB:1190:DC:OP2	2.22	0.40
11:AB:1250:DT:H1'	11:AB:1251:DC:H5'	2.02	0.40
11:AB:1271:DT:H2'	11:AB:1272:DT:H71	2.01	0.40
11:AB:1454:DT:H2'	11:AB:1455:DT:H71	2.01	0.40
11:AB:1490:DT:H2'	11:AB:1491:DT:H71	2.01	0.40
11:AB:1626:DC:H2'	11:AB:1627:DT:H71	1.99	0.40
11:AB:1636:DT:H2''	11:AB:1637:DC:OP2	2.22	0.40
11:AB:1691:DC:H2'	11:AB:1692:DT:H71	1.99	0.40
11:AB:1721:DG:H2''	11:AB:1722:DA:OP2	2.22	0.40
11:AB:1808:DG:H2''	11:AB:1809:DA:OP2	2.22	0.40
11:AB:1829:DG:H2''	11:AB:1830:DA:OP2	2.22	0.40
11:AB:1855:DG:H2''	11:AB:1856:DC:OP2	2.20	0.40
11:AB:1875:DG:H2''	11:AB:1876:DA:O5'	2.21	0.40
11:AB:1949:DG:H2''	11:AB:1950:DC:OP2	2.20	0.40
11:AB:2041:DC:H2'	11:AB:2042:DT:H71	1.99	0.40
11:AB:2160:DG:H2''	11:AB:2161:DA:OP2	2.21	0.40
11:AB:2171:DG:H2''	11:AB:2172:DC:OP2	2.20	0.40
11:AB:2228:DA:H1'	11:AB:2229:DC:H5'	2.03	0.40
11:AB:2313:DG:H2''	11:AB:2314:DA:OP2	2.21	0.40
11:AB:2322:DT:H2'	11:AB:2323:DT:H71	2.01	0.40
11:AB:2353:DC:H2'	11:AB:2354:DT:H71	1.99	0.40
11:AB:2366:DG:H2'	11:AB:2367:DT:H71	2.02	0.40
11:AB:2424:DT:H1'	11:AB:2425:DC:H5'	2.02	0.40
11:AB:2453:DT:H2''	11:AB:2454:DC:OP2	2.22	0.40
11:AB:2465:DA:H1'	11:AB:2466:DC:H5'	2.03	0.40
11:AB:2528:DT:H2''	11:AB:2529:DC:OP2	2.22	0.40
11:AB:2641:DT:H2'	11:AB:2642:DT:H71	2.01	0.40
11:AB:2698:DG:H2''	11:AB:2699:DA:OP2	2.22	0.40
11:AB:2716:DA:H1'	11:AB:2717:DC:H5'	2.03	0.40
11:AB:2773:DT:H2'	11:AB:2774:DT:H71	2.01	0.40
11:AB:2874:DT:H2'	11:AB:2875:DT:H71	2.01	0.40
11:AB:2877:DG:H2''	11:AB:2878:DC:OP2	2.19	0.40
11:AB:2996:DG:H2''	11:AB:2997:DC:OP2	2.20	0.40
11:AB:3047:DC:H2'	11:AB:3048:DT:H71	1.99	0.40
11:AB:3055:DT:H1'	11:AB:3056:DC:H5'	2.01	0.40
11:AB:3165:DT:H1'	11:AB:3166:DC:H5'	2.02	0.40
11:AB:3186:DT:H1'	11:AB:3187:DC:H5'	2.02	0.40
11:AB:3236:DT:H2''	11:AB:3237:DC:OP2	2.22	0.40
11:AB:3283:DT:H1'	11:AB:3284:DC:H5'	2.02	0.40
11:AB:3325:DG:H2''	11:AB:3326:DA:OP2	2.22	0.40
11:AB:3334:DG:H2''	11:AB:3335:DA:OP2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3377:DA:H1'	11:AB:3378:DC:H5'	2.03	0.40
11:AB:3411:DT:H2''	11:AB:3412:DC:OP2	2.22	0.40
11:AB:3548:DT:H2'	11:AB:3549:DT:H71	2.01	0.40
11:AB:3796:DG:H2''	11:AB:3797:DA:OP2	2.21	0.40
11:AB:3911:DT:H2''	11:AB:3912:DC:OP2	2.22	0.40
11:AB:3920:DT:H2''	11:AB:3921:DC:OP2	2.22	0.40
11:AB:3964:DC:H2'	11:AB:3965:DT:H71	1.99	0.40
11:AB:3967:DT:H2''	11:AB:3968:DC:OP2	2.22	0.40
11:AB:4088:DG:H2''	11:AB:4089:DC:OP2	2.20	0.40
11:AB:4107:DG:H2''	11:AB:4108:DC:OP2	2.20	0.40
11:AB:4233:DG:H2''	11:AB:4234:DA:OP2	2.22	0.40
11:AB:4249:DG:H2''	11:AB:4250:DC:OP2	2.20	0.40
11:AB:4505:DT:H2''	11:AB:4506:DC:OP2	2.22	0.40
11:AB:4587:DA:H1'	11:AB:4588:DC:H5'	2.03	0.40
11:AB:4663:DG:H2''	11:AB:4664:DA:O5'	2.21	0.40
11:AB:4778:DG:H2''	11:AB:4779:DA:OP2	2.21	0.40
11:AB:4825:DT:H2''	11:AB:4826:DC:OP2	2.22	0.40
11:AB:4837:DG:H2''	11:AB:4838:DA:OP2	2.21	0.40
11:AB:4854:DG:H2''	11:AB:4855:DC:OP2	2.20	0.40
11:AB:4943:DG:H2''	11:AB:4944:DC:OP2	2.20	0.40
11:AB:5132:DG:H2''	11:AB:5133:DC:OP2	2.20	0.40
11:AB:5142:DA:H1'	11:AB:5143:DC:H5'	2.03	0.40
11:AB:5206:DT:H2'	11:AB:5207:DT:H71	2.01	0.40
11:AB:5217:DT:H1'	11:AB:5218:DC:H5'	2.02	0.40
11:AB:5453:DT:H1'	11:AB:5454:DC:H5'	2.02	0.40
11:AB:5500:DT:H2'	11:AB:5501:DT:H71	2.01	0.40
11:AB:5524:DA:H1'	11:AB:5525:DC:H5'	2.03	0.40
11:AB:5530:DT:H1'	11:AB:5531:DC:H5'	2.02	0.40
11:AB:5545:DT:H2''	11:AB:5546:DC:OP2	2.22	0.40
11:AB:5557:DG:H2'	11:AB:5558:DT:H71	2.02	0.40
11:AB:5827:DA:H1'	11:AB:5828:DC:H5'	2.03	0.40
11:AB:5845:DG:H2''	11:AB:5846:DA:OP2	2.21	0.40
11:AB:5854:DT:H2'	11:AB:5855:DT:H71	2.01	0.40
11:AB:5943:DT:H2'	11:AB:5944:DT:H71	2.01	0.40
11:AB:5996:DC:H2'	11:AB:5997:DT:H71	1.99	0.40
11:AB:6027:DA:H1'	11:AB:6028:DC:H5'	2.03	0.40
11:AB:6156:DT:H2''	11:AB:6157:DC:OP2	2.22	0.40
11:AB:6195:DT:H2''	11:AB:6196:DC:OP2	2.22	0.40
11:AB:6230:DA:H1'	11:AB:6231:DC:H5'	2.03	0.40
11:AB:6275:DT:H2''	11:AB:6276:DC:OP2	2.22	0.40
11:AB:6284:DC:H2'	11:AB:6285:DT:H71	1.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6368:DT:H2'	11:AB:6369:DT:H71	2.01	0.40
11:AB:6436:DC:H2'	11:AB:6437:DT:H71	1.99	0.40
11:AB:6467:DT:H2'	11:AB:6468:DT:H71	2.01	0.40
11:AB:6533:DC:H2'	11:AB:6534:DT:H71	1.99	0.40
11:AB:6537:DA:H1'	11:AB:6538:DC:H5'	2.03	0.40
11:AB:6602:DC:H2'	11:AB:6603:DT:H71	1.99	0.40
11:AB:6612:DT:H2''	11:AB:6613:DC:OP2	2.22	0.40
11:AB:6693:DG:H2''	11:AB:6694:DC:OP2	2.19	0.40
11:AB:6711:DT:H2''	11:AB:6712:DC:OP2	2.22	0.40
11:AB:6766:DT:H2'	11:AB:6767:DT:H71	2.01	0.40
11:AB:6844:DA:H1'	11:AB:6845:DC:H5'	2.03	0.40
11:AB:6875:DT:H1'	11:AB:6876:DC:H5'	2.02	0.40
11:AB:6901:DG:H2'	11:AB:6902:DT:H71	2.02	0.40
11:AB:6910:DT:H2''	11:AB:6911:DC:OP2	2.22	0.40
11:AB:6919:DC:H2'	11:AB:6920:DT:H71	1.99	0.40
11:AB:6926:DA:H1'	11:AB:6927:DC:H5'	2.03	0.40
11:AB:6979:DT:H2''	11:AB:6980:DC:OP2	2.22	0.40
13:AD:16:DG:H2''	13:AD:17:DA:O5'	2.21	0.40
13:AD:36:DT:H2'	13:AD:37:DT:H71	2.01	0.40
18:B5:16:DA:H1'	18:B5:17:DC:H5'	2.03	0.40
18:B5:33:DG:H2''	18:B5:34:DA:OP2	2.22	0.40
22:B9:19:DT:H1'	22:B9:20:DC:H5'	2.02	0.40
26:C1:4:DG:H2'	26:C1:5:DT:H71	2.02	0.40
28:C3:5:DA:H1'	28:C3:6:DC:H5'	2.03	0.40
30:C6:33:DG:H2''	30:C6:34:DA:O5'	2.21	0.40
30:C6:37:DG:H2''	30:C6:38:DA:O5'	2.21	0.40
32:C8:49:DT:H2'	32:C8:50:DT:H71	2.01	0.40
32:C8:51:DT:H2'	32:C8:52:DT:H71	2.01	0.40
34:CA:11:DG:H2''	34:CA:12:DA:OP2	2.21	0.40
35:CC:33:DA:H1'	35:CC:34:DC:H5'	2.03	0.40
37:D1:12:DG:H2''	37:D1:13:DA:OP2	2.22	0.40
39:D3:12:DT:H2''	39:D3:13:DC:OP2	2.22	0.40
40:D5:19:DG:H2''	40:D5:20:DA:OP2	2.21	0.40
41:D6:5:DG:H2''	41:D6:6:DC:OP2	2.20	0.40
43:D8:11:DT:H2'	43:D8:12:DT:H71	2.01	0.40
43:D8:29:DC:H2'	43:D8:30:DT:H71	1.99	0.40
44:D9:19:DC:H2'	44:D9:20:DT:H71	1.99	0.40
45:DA:20:DG:H2''	45:DA:21:DA:O5'	2.21	0.40
46:DC:8:DG:H2''	46:DC:9:DC:OP2	2.19	0.40
47:DD:25:DG:H2''	47:DD:26:DA:OP2	2.22	0.40
48:E1:5:DG:H2''	48:E1:6:DA:O5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:E2:12:DT:H1'	49:E2:13:DC:H5'	2.02	0.40
54:E8:30:DT:H2''	90:HC:17:DC:OP1	2.22	0.40
55:E9:16:DT:H1'	55:E9:17:DC:H5'	2.02	0.40
55:E9:21:DC:H5'	190:R9:32:DA:H1'	2.03	0.40
58:ED:9:DG:H2'	58:ED:10:DT:H71	2.02	0.40
58:ED:16:DA:H1'	58:ED:17:DC:H5'	2.03	0.40
59:F1:16:DA:H1'	59:F1:17:DC:H5'	2.03	0.40
62:F5:25:DC:H5'	139:M6:7:DA:H1'	2.03	0.40
70:G1:8:DG:H2''	70:G1:9:DA:OP2	2.22	0.40
71:G2:12:DA:H1'	71:G2:13:DC:H5'	2.03	0.40
76:G8:12:DG:H2''	76:G8:13:DA:O5'	2.21	0.40
77:G9:1:DC:H2'	77:G9:2:DT:H71	1.99	0.40
77:G9:8:DG:H2''	77:G9:9:DA:OP2	2.22	0.40
83:H3:22:DA:O5'	152:N9:31:DG:H2''	2.21	0.40
87:H8:21:DG:H2''	87:H8:22:DA:OP2	2.21	0.40
90:HC:19:DC:H2'	90:HC:20:DT:H71	1.99	0.40
92:I1:15:DG:H2''	92:I1:16:DA:OP2	2.21	0.40
93:I2:27:DT:H2'	93:I2:28:DT:H71	2.01	0.40
93:I2:45:DG:H2''	93:I2:46:DC:OP2	2.20	0.40
94:I3:29:DG:H2''	94:I3:30:DA:O5'	2.21	0.40
94:I3:50:DG:H2''	94:I3:51:DA:OP2	2.22	0.40
95:I5:4:DT:H2'	95:I5:5:DT:H71	2.01	0.40
95:I5:29:DA:O5'	223:V5:6:DG:H2''	2.21	0.40
96:I6:10:DG:H2'	96:I6:11:DT:H71	2.02	0.40
96:I6:16:DA:H1'	96:I6:17:DC:H5'	2.03	0.40
97:I7:6:DA:H1'	97:I7:7:DC:H5'	2.03	0.40
98:I8:11:DT:H2''	98:I8:12:DC:OP2	2.22	0.40
104:J2:31:DT:H1'	104:J2:32:DC:H5'	2.02	0.40
108:J7:27:DT:H2''	108:J7:28:DC:OP2	2.22	0.40
113:JD:12:DG:H2''	113:JD:13:DC:OP2	2.20	0.40
116:K3:7:DA:H1'	116:K3:8:DC:H5'	2.03	0.40
116:K3:16:DG:H2''	116:K3:17:DA:OP2	2.22	0.40
116:K3:19:DA:H1'	116:K3:20:DC:H5'	2.03	0.40
118:K6:16:DC:H2'	118:K6:17:DT:H71	1.99	0.40
124:KD:1:DC:H5'	132:L9:19:DT:H1'	2.02	0.40
127:L3:15:DG:H2''	127:L3:16:DA:O5'	2.21	0.40
127:L3:16:DA:H1'	127:L3:17:DC:H5'	2.03	0.40
128:L5:17:DA:H1'	128:L5:18:DC:H5'	2.03	0.40
136:M2:11:DT:H2'	136:M2:12:DT:H71	2.01	0.40
137:M3:5:DG:H2''	137:M3:6:DA:O5'	2.21	0.40
138:M5:11:DT:H2'	138:M5:12:DT:H71	2.01	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
138:M5:12:DT:H2''	138:M5:13:DC:OP2	2.22	0.40
142:M9:22:DT:H2'	142:M9:23:DT:H71	2.01	0.40
143:MA:21:DC:H5'	227:VA:18:DA:H1'	2.03	0.40
143:MA:23:DA:H1'	143:MA:24:DC:H5'	2.03	0.40
143:MA:35:DA:H1'	143:MA:36:DC:H5'	2.03	0.40
147:N3:2:DG:H2''	147:N3:3:DA:O5'	2.21	0.40
147:N3:12:DG:H2''	147:N3:13:DC:OP2	2.20	0.40
150:N7:3:DG:H2''	150:N7:4:DA:O5'	2.21	0.40
153:NA:5:DA:H1'	153:NA:6:DC:H5'	2.03	0.40
154:NC:16:DT:H2'	154:NC:17:DT:H71	2.01	0.40
156:O2:8:DC:H2'	156:O2:9:DT:H71	1.99	0.40
156:O2:47:DA:H1'	156:O2:48:DC:H5'	2.03	0.40
157:O3:5:DA:H1'	157:O3:6:DC:H5'	2.03	0.40
158:O5:25:DA:H1'	158:O5:26:DC:H5'	2.03	0.40
160:O7:36:DG:H2''	160:O7:37:DA:OP2	2.22	0.40
160:O7:39:DA:H1'	160:O7:40:DC:H5'	2.03	0.40
175:PD:9:DA:H1'	175:PD:10:DC:H5'	2.03	0.40
178:Q5:36:DT:H71	214:U5:14:DT:H2'	2.00	0.40
179:Q7:17:DT:H1'	179:Q7:18:DC:H5'	2.01	0.40
181:Q9:2:DG:H2''	181:Q9:3:DA:O5'	2.21	0.40
181:Q9:7:DC:H2'	181:Q9:8:DT:H71	1.99	0.40
185:R2:5:DG:H2''	185:R2:6:DA:OP2	2.22	0.40
191:RA:9:DG:H2''	191:RA:10:DC:OP2	2.20	0.40
194:S2:8:DT:H2'	194:S2:9:DT:H71	2.01	0.40
195:S3:3:DC:H2'	195:S3:4:DT:H71	1.99	0.40
195:S3:26:DG:H2''	195:S3:27:DA:OP2	2.22	0.40
197:S7:19:DT:H2''	197:S7:20:DC:OP2	2.22	0.40
198:S8:13:DT:H1'	198:S8:14:DC:H5'	2.02	0.40
204:T3:11:DT:H2'	204:T3:12:DT:H71	2.01	0.40
205:T5:22:DG:H2''	205:T5:23:DA:OP2	2.21	0.40
208:T9:19:DT:H2'	208:T9:20:DT:H71	2.01	0.40
209:TA:23:DT:H1'	209:TA:24:DC:H5'	2.02	0.40
213:U3:1:DG:H2''	213:U3:2:DA:O5'	2.21	0.40
216:U8:15:DA:H1'	216:U8:16:DC:H5'	2.03	0.40
225:V8:13:DG:H2''	225:V8:14:DA:OP2	2.22	0.40
227:VA:2:DA:H1'	227:VA:3:DC:H5'	2.03	0.40
229:VD:2:DA:H1'	229:VD:3:DC:H5'	2.03	0.40
230:W3:9:DG:H2''	230:W3:10:DA:O5'	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein molecules in this entry.

5.3.2 Protein sidechains [i](#)

There are no protein molecules in this entry.

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
11	AB	1697
206	T7	23
22	B9	19
156	O2	19

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Mol	Chain	Number of breaks
94	I3	18
152	N9	18
93	I2	16
117	K5	16
41	D6	16
238	X9	15
187	R5	15
30	C6	15
83	H3	15
108	J7	15
161	O8	15
125	L1	15
143	MA	15
204	T3	15
154	NC	15
32	C8	14
82	H2	14
55	E9	14
43	D8	14
109	J8	14
114	K1	14
119	K7	14
1	A1	13
145	MD	13
209	TA	13
122	KA	13
130	L7	13
160	O7	13
230	W3	13
165	OD	12
223	V5	12
49	E2	12
69	FD	12
214	U5	12
14	B1	12
84	H5	12
126	L2	12
5	A5	11
95	I5	11
106	J5	11
29	C5	11
138	M5	11

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Mol	Chain	Number of breaks
113	JD	11
102	ID	11
198	S8	11
178	Q5	10
13	AD	10
104	J2	10
149	N6	10
190	R9	10
39	D3	10
62	F5	10
85	H6	10
167	P3	10
228	VC	10
24	BC	10
182	QA	10
211	TD	10
37	D1	9
60	F2	9
67	FA	9
107	J6	9
115	K2	9
31	C7	9
181	Q9	9
52	E6	9
88	H9	9
98	I8	9
227	VA	9
47	DD	9
74	G6	9
158	O5	9
147	N3	9
2	A2	8
18	B5	8
99	I9	8
48	E1	8
137	M3	8
44	D9	8
189	R8	8
54	E8	8
73	G5	8
173	PA	8
188	R7	8

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Mol	Chain	Number of breaks
226	V9	8
35	CC	8
58	ED	8
90	HC	8
97	I7	8
166	P2	8
207	T8	8
72	G3	8
196	S5	7
231	W5	7
10	AA	7
51	E5	7
61	F3	7
76	G8	7
197	S7	7
23	BA	7
46	DC	7
79	GC	7
110	J9	7
139	M6	7
194	S2	7
199	S9	7
212	U2	7
213	U3	7
225	V8	7
121	K9	7
124	KD	7
133	LA	7
172	P9	7
217	U9	7
219	UC	7
174	PC	7
148	N5	6
7	A7	6
64	F7	6
185	R2	6
4	A4	6
151	N8	6
195	S3	6
203	T2	6
216	U8	6
222	V3	6

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Mol	Chain	Number of breaks
17	B4	6
128	L5	6
140	M7	6
146	N2	6
183	QC	6
36	CD	6
103	J1	6
218	UA	6
220	UD	6
8	A8	6
68	FC	6
159	O6	6
169	P6	6
175	PD	6
192	RC	6
57	EC	6
186	R3	6
215	U7	6
3	A3	5
75	G7	5
86	H7	5
91	HD	5
191	RA	5
205	T5	5
210	TC	5
19	B6	5
28	C3	5
42	D7	5
70	G1	5
112	JC	5
134	LC	5
202	SD	5
155	ND	5
221	V2	5
234	W9	5
27	C2	5
33	C9	5
59	F1	5
65	F8	5
101	IC	5
105	J3	5
120	K8	5

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Mol	Chain	Number of breaks
123	KC	5
129	L6	5
164	OC	5
180	Q8	5
233	W8	5
20	B7	5
45	DA	5
111	JA	5
150	N7	5
56	EA	5
6	A6	5
26	C1	4
89	HA	4
40	D5	4
53	E7	4
63	F6	4
92	I1	4
229	VD	4
16	B3	4
87	H8	4
144	MC	4
157	O3	4
168	P5	4
170	P7	4
208	T9	4
66	F9	4
71	G2	4
96	I6	4
127	L3	4
184	QD	4
12	AC	4
80	GD	4
116	K3	4
131	L8	4
200	SA	4
224	V7	4
118	K6	4
177	Q3	4
21	B8	4
77	G9	4
78	GA	4
163	OA	4

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Mol	Chain	Number of breaks
38	D2	4
136	M2	4
153	NA	4
179	Q7	4
232	W7	4
34	CA	4
9	A9	4
141	M8	4
25	BD	3
15	B2	3
81	H1	3
132	L9	3
142	M9	3
162	O9	3
171	P8	3
236	X5	3
201	SC	3
100	IA	3
135	LD	2
235	WD	2
50	E3	2
193	RD	1
176	Q2	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	1028:DC	O3'	1029:DG	P	6.25
1	AB	6965:DC	O3'	6966:DG	P	6.24
1	AB	5941:DC	O3'	5942:DG	P	6.21
1	AB	6135:DC	O3'	6136:DG	P	6.21
1	AB	6896:DT	O3'	6897:DG	P	6.15
1	AB	1168:DC	O3'	1169:DT	P	6.11
1	AB	3578:DC	O3'	3579:DT	P	6.10
1	AB	3626:DC	O3'	3627:DA	P	6.09
1	AB	5885:DC	O3'	5886:DT	P	6.09
1	AB	6107:DC	O3'	6108:DT	P	6.09
1	AB	1365:DG	O3'	1366:DC	P	6.08
1	AB	4305:DC	O3'	4306:DT	P	6.08
1	AB	5642:DC	O3'	5643:DA	P	6.08
1	AB	2005:DA	O3'	2006:DT	P	6.07
1	AB	6941:DC	O3'	6942:DG	P	6.07
1	AB	980:DT	O3'	981:DT	P	6.06

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	1583:DA	O3'	1584:DT	P	6.06
1	AB	1330:DT	O3'	1331:DA	P	6.05
1	AB	2123:DG	O3'	2124:DG	P	6.05
1	AB	2213:DG	O3'	2214:DG	P	6.05
1	AB	6352:DA	O3'	6353:DT	P	6.05
1	AB	5822:DA	O3'	5823:DT	P	6.04
1	AB	6017:DA	O3'	6018:DT	P	6.04
1	AB	5131:DT	O3'	5132:DG	P	6.03
1	AB	5207:DT	O3'	5208:DG	P	6.03
1	AB	5321:DA	O3'	5322:DT	P	6.03
1	AB	6324:DT	O3'	6325:DT	P	6.03
1	AB	1045:DA	O3'	1046:DG	P	6.02
1	AB	4011:DT	O3'	4012:DT	P	6.02
1	AB	4151:DT	O3'	4152:DT	P	6.02
1	AB	5628:DT	O3'	5629:DT	P	6.02
1	AB	5732:DT	O3'	5733:DT	P	6.02
1	AB	1217:DG	O3'	1218:DA	P	6.01
1	AB	4333:DT	O3'	4334:DT	P	6.01
1	AB	6473:DT	O3'	6474:DG	P	6.01
1	AB	4389:DC	O3'	4390:DC	P	6.00
1	AB	4448:DC	O3'	4449:DA	P	6.00
1	AB	6556:DT	O3'	6557:DG	P	6.00
1	AB	1119:DG	O3'	1120:DT	P	5.98
1	AB	5283:DC	O3'	5284:DT	P	5.98
1	AB	7031:DT	O3'	7032:DG	P	5.98
1	AB	3355:DT	O3'	3356:DC	P	5.97
1	AB	3602:DC	O3'	3603:DT	P	5.97
1	AB	4991:DC	O3'	4992:DA	P	5.97
1	AB	5366:DC	O3'	5367:DT	P	5.97
1	AB	6636:DT	O3'	6637:DC	P	5.97
1	AB	5245:DA	O3'	5246:DC	P	5.96
1	AB	6226:DT	O3'	6227:DC	P	5.96
1	AB	6435:DT	O3'	6436:DC	P	5.96
1	AB	6601:DT	O3'	6602:DC	P	5.96
1	AB	2033:DG	O3'	2034:DT	P	5.95
1	AB	3983:DT	O3'	3984:DC	P	5.95
1	AB	5857:DT	O3'	5858:DC	P	5.95
1	AB	1674:DC	O3'	1675:DC	P	5.94
1	AB	3278:DT	O3'	3279:DA	P	5.94
1	AB	3530:DG	O3'	3531:DT	P	5.94
1	AB	3554:DG	O3'	3555:DG	P	5.94
1	AB	3895:DG	O3'	3896:DG	P	5.94

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	4361:DT	O3'	4362:DC	P	5.94
1	AB	4718:DA	O3'	4719:DC	P	5.94
1	AB	4790:DA	O3'	4791:DC	P	5.94
1	AB	5061:DG	O3'	5062:DG	P	5.94
1	AB	5169:DT	O3'	5170:DC	P	5.94
1	AB	5614:DT	O3'	5615:DC	P	5.94
1	AB	6511:DG	O3'	6512:DT	P	5.94
1	AB	924:DG	O3'	925:DG	P	5.93
1	AB	2168:DG	O3'	2169:DG	P	5.93
1	AB	3643:DA	O3'	3644:DT	P	5.93
1	AB	3955:DG	O3'	3956:DT	P	5.93
1	AB	6159:DA	O3'	6160:DA	P	5.93
1	AB	6300:DA	O3'	6301:DT	P	5.93
1	AB	6788:DG	O3'	6789:DG	P	5.93
1	AB	1794:DT	O3'	1795:DT	P	5.92
1	AB	2050:DA	O3'	2051:DT	P	5.92
1	AB	2403:DA	O3'	2404:DA	P	5.92
1	AB	2573:DT	O3'	2574:DA	P	5.92
1	AB	2665:DT	O3'	2666:DA	P	5.92
1	AB	3116:DA	O3'	3117:DT	P	5.92
1	AB	3432:DT	O3'	3433:DT	P	5.92
1	AB	4081:DA	O3'	4082:DA	P	5.92
1	AB	4413:DT	O3'	4414:DT	P	5.92
1	AB	5687:DA	O3'	5688:DA	P	5.92
1	AB	5777:DA	O3'	5778:DT	P	5.92
1	AB	5979:DA	O3'	5980:DA	P	5.92
1	AB	7178:DC	O3'	7179:DT	P	5.92
1	AB	1059:DG	O3'	1060:DG	P	5.91
1	AB	2064:DA	O3'	2065:DA	P	5.91
1	AB	3671:DT	O3'	3672:DT	P	5.91
1	AB	3825:DT	O3'	3826:DT	P	5.91
1	AB	4588:DC	O3'	4589:DC	P	5.91
1	AB	5436:DT	O3'	5437:DT	P	5.91
1	AB	719:DA	O3'	720:DT	P	5.90
1	AB	4921:DC	O3'	4922:DC	P	5.90
1	AB	1295:DA	O3'	1296:DT	P	5.89
1	AB	2258:DT	O3'	2259:DA	P	5.89
1	AB	4455:DG	O3'	4456:DA	P	5.89
1	AB	4476:DA	O3'	4477:DC	P	5.89
1	AB	4553:DG	O3'	4554:DA	P	5.89
1	AB	6062:DC	O3'	6063:DC	P	5.89
1	AB	6397:DT	O3'	6398:DT	P	5.89

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	6714:DG	O3'	6715:DG	P	5.89
1	AB	3720:DG	O3'	3721:DA	P	5.88
1	AB	4886:DG	O3'	4887:DA	P	5.88
1	AB	1004:DT	O3'	1005:DA	P	5.87
1	AB	6675:DG	O3'	6676:DA	P	5.87
1	AB	3685:DA	O3'	3686:DC	P	5.86
1	AB	3927:DT	O3'	3928:DT	P	5.86
1	AB	4693:DA	O3'	4694:DC	P	5.86
1	AB	4772:DA	O3'	4773:DC	P	5.86
1	AB	357:DC	O3'	358:DA	P	5.85
1	AB	2078:DA	O3'	2079:DC	P	5.85
1	AB	2481:DC	O3'	2482:DA	P	5.85
1	AB	2954:DC	O3'	2955:DT	P	5.85
1	AB	3790:DG	O3'	3791:DT	P	5.85
1	AB	4375:DG	O3'	4376:DG	P	5.85
1	AB	4736:DG	O3'	4737:DT	P	5.85
1	AB	5096:DG	O3'	5097:DT	P	5.85
1	AB	5635:DG	O3'	5636:DG	P	5.85
1	AB	6121:DT	O3'	6122:DT	P	5.85
1	AB	1101:DG	O3'	1102:DA	P	5.84
1	AB	3909:DA	O3'	3910:DC	P	5.84
1	AB	4319:DT	O3'	4320:DT	P	5.84
1	AB	557:DC	O3'	558:DG	P	5.83
1	AB	804:DT	O3'	805:DG	P	5.83
1	AB	1087:DA	O3'	1088:DC	P	5.83
1	AB	2792:DT	O3'	2793:DG	P	5.83
1	AB	3678:DT	O3'	3679:DC	P	5.83
1	AB	4221:DC	O3'	4222:DT	P	5.83
1	AB	4518:DG	O3'	4519:DT	P	5.83
1	AB	6858:DT	O3'	6859:DC	P	5.83
1	AB	2325:DA	O3'	2326:DG	P	5.82
1	AB	3657:DG	O3'	3658:DA	P	5.82
1	AB	4847:DC	O3'	4848:DA	P	5.82
1	AB	5506:DG	O3'	5507:DA	P	5.82
1	AB	5576:DG	O3'	5577:DT	P	5.82
1	AB	6338:DC	O3'	6339:DA	P	5.82
1	AB	864:DT	O3'	865:DC	P	5.81
1	AB	2019:DC	O3'	2020:DT	P	5.81
1	AB	266:DG	O3'	267:DA	P	5.80
1	AB	3860:DA	O3'	3861:DA	P	5.80
1	AB	4441:DC	O3'	4442:DC	P	5.80
1	AB	4462:DG	O3'	4463:DC	P	5.78

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	4469:DG	O3'	4470:DG	P	5.78
1	AB	5471:DC	O3'	5472:DC	P	5.78
1	AB	5621:DC	O3'	5622:DT	P	5.78
1	AB	5913:DT	O3'	5914:DG	P	5.78
1	AB	1492:DC	O3'	1493:DG	P	5.77
1	AB	1928:DC	O3'	1929:DG	P	5.77
1	AB	2619:DT	O3'	2620:DA	P	5.77
1	AB	2711:DT	O3'	2712:DA	P	5.77
1	AB	3197:DA	O3'	3198:DA	P	5.77
1	AB	3664:DC	O3'	3665:DC	P	5.77
1	AB	4347:DC	O3'	4348:DT	P	5.77
1	AB	4658:DG	O3'	4659:DC	P	5.77
1	AB	4754:DT	O3'	4755:DG	P	5.77
1	AB	4956:DA	O3'	4957:DT	P	5.77
1	AB	6187:DG	O3'	6188:DG	P	5.77
1	AB	1734:DA	O3'	1735:DA	P	5.76
1	AB	1861:DT	O3'	1862:DA	P	5.76
1	AB	3755:DG	O3'	3756:DC	P	5.76
1	AB	5401:DT	O3'	5402:DT	P	5.76
1	AB	5541:DT	O3'	5542:DT	P	5.76
1	AB	6265:DT	O3'	6266:DT	P	5.76
1	AB	1256:DG	O3'	1257:DG	P	5.75
1	AB	1411:DA	O3'	1412:DT	P	5.75
1	AB	2279:DG	O3'	2280:DC	P	5.75
1	AB	2873:DA	O3'	2874:DT	P	5.75
1	AB	3035:DA	O3'	3036:DT	P	5.75
1	AB	3650:DT	O3'	3651:DT	P	5.75
1	AB	701:DC	O3'	702:DC	P	5.74
1	AB	2286:DT	O3'	2287:DT	P	5.74
1	AB	2364:DT	O3'	2365:DT	P	5.74
1	AB	2442:DT	O3'	2443:DT	P	5.74
1	AB	2527:DT	O3'	2528:DT	P	5.74
1	AB	4623:DC	O3'	4624:DA	P	5.74
1	AB	2057:DT	O3'	2058:DT	P	5.73
1	AB	6753:DC	O3'	6754:DA	P	5.72
1	AB	6823:DC	O3'	6824:DA	P	5.72
1	AB	4483:DT	O3'	4484:DG	P	5.70
1	AB	4808:DA	O3'	4809:DG	P	5.70
1	AB	5026:DC	O3'	5027:DT	P	5.70
1	AB	2071:DA	O3'	2072:DG	P	5.67
1	AB	2272:DT	O3'	2273:DG	P	5.67
1	AB	744:DT	O3'	745:DG	P	5.66

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	168:DG	O3'	169:DC	P	5.65
1	AB	1073:DT	O3'	1074:DG	P	5.65
1	AB	455:DT	O3'	456:DG	P	5.63
1	AB	7101:DC	O3'	7102:DG	P	5.61
1	AB	1052:DC	O3'	1053:DG	P	5.59
1	D1	14:DA	O3'	15:DG	P	5.17
1	N5	16:DC	O3'	17:DG	P	5.17
1	A2	24:DA	O3'	25:DG	P	5.16
1	A5	7:DC	O3'	8:DG	P	5.16
1	A7	34:DA	O3'	35:DG	P	5.16
1	C1	18:DA	O3'	19:DG	P	5.16
1	Q5	14:DA	O3'	15:DG	P	5.16
1	A1	40:DA	O3'	41:DG	P	5.15
1	B5	7:DA	O3'	8:DG	P	5.15
1	C8	17:DA	O3'	18:DG	P	5.15
1	C8	31:DA	O3'	32:DG	P	5.15
1	D1	35:DT	O3'	36:DG	P	5.15
1	F2	4:DC	O3'	5:DG	P	5.15
1	F7	18:DA	O3'	19:DG	P	5.15
1	FA	14:DA	O3'	15:DG	P	5.15
1	I2	35:DA	O3'	36:DG	P	5.15
1	I3	38:DC	O3'	39:DG	P	5.15
1	I5	35:DT	O3'	36:DG	P	5.15
1	J5	28:DC	O3'	29:DG	P	5.15
1	J6	21:DA	O3'	22:DG	P	5.15
1	K2	16:DC	O3'	17:DG	P	5.15
1	R2	7:DA	O3'	8:DG	P	5.15
1	S5	28:DA	O3'	29:DG	P	5.15
1	X9	24:DA	O3'	25:DG	P	5.15
1	A2	10:DT	O3'	11:DG	P	5.14
1	A4	24:DA	O3'	25:DG	P	5.14
1	C5	6:DA	O3'	7:DA	P	5.14
1	C5	27:DA	O3'	28:DA	P	5.14
1	C8	45:DT	O3'	46:DG	P	5.14
1	F2	18:DT	O3'	19:DG	P	5.14
1	H2	20:DC	O3'	21:DG	P	5.14
1	HA	27:DA	O3'	28:DG	P	5.14
1	I9	16:DC	O3'	17:DG	P	5.14
1	M5	7:DA	O3'	8:DA	P	5.14
1	MD	37:DA	O3'	38:DG	P	5.14
1	N8	10:DA	O3'	11:DG	P	5.14
1	OD	28:DC	O3'	29:DG	P	5.14

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	R5	35:DA	O3'	36:DA	P	5.14
1	TA	11:DA	O3'	12:DG	P	5.14
1	V5	6:DG	O3'	7:DG	P	5.14
1	V5	27:DA	O3'	28:DA	P	5.14
1	W5	20:DA	O3'	21:DA	P	5.14
1	A3	16:DT	O3'	17:DG	P	5.13
1	A5	28:DA	O3'	29:DA	P	5.13
1	AA	16:DT	O3'	17:DG	P	5.13
1	AD	30:DA	O3'	31:DA	P	5.13
1	B9	7:DT	O3'	8:DG	P	5.13
1	B9	21:DT	O3'	22:DG	P	5.13
1	BD	16:DA	O3'	17:DG	P	5.13
1	C7	12:DT	O3'	13:DG	P	5.13
1	D5	16:DT	O3'	17:DA	P	5.13
1	E1	7:DG	O3'	8:DC	P	5.13
1	E2	16:DT	O3'	17:DG	P	5.13
1	E5	27:DT	O3'	28:DG	P	5.13
1	E7	15:DT	O3'	16:DG	P	5.13
1	E9	34:DA	O3'	35:DA	P	5.13
1	F3	14:DA	O3'	15:DG	P	5.13
1	F6	13:DA	O3'	14:DA	P	5.13
1	FA	21:DA	O3'	22:DG	P	5.13
1	FD	7:DA	O3'	8:DG	P	5.13
1	FD	14:DA	O3'	15:DA	P	5.13
1	G7	4:DA	O3'	5:DA	P	5.13
1	G8	11:DA	O3'	12:DG	P	5.13
1	H2	13:DA	O3'	14:DG	P	5.13
1	H7	20:DG	O3'	21:DG	P	5.13
1	HD	16:DA	O3'	17:DG	P	5.13
1	I1	16:DA	O3'	17:DG	P	5.13
1	J2	35:DA	O3'	36:DA	P	5.13
1	K5	39:DG	O3'	40:DG	P	5.13
1	M3	14:DA	O3'	15:DA	P	5.13
1	N6	23:DT	O3'	24:DG	P	5.13
1	N9	17:DT	O3'	18:DG	P	5.13
1	OD	14:DA	O3'	15:DA	P	5.13
1	Q9	18:DA	O3'	19:DA	P	5.13
1	R9	11:DA	O3'	12:DA	P	5.13
1	R9	25:DA	O3'	26:DA	P	5.13
1	RA	20:DA	O3'	21:DA	P	5.13
1	RD	13:DA	O3'	14:DA	P	5.13
1	S3	21:DA	O3'	22:DG	P	5.13

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	S7	17:DA	O3'	18:DA	P	5.13
1	T2	16:DA	O3'	17:DA	P	5.13
1	T5	9:DA	O3'	10:DA	P	5.13
1	T7	17:DA	O3'	18:DA	P	5.13
1	TC	23:DA	O3'	24:DG	P	5.13
1	U5	7:DG	O3'	8:DG	P	5.13
1	U5	28:DA	O3'	29:DA	P	5.13
1	U8	10:DT	O3'	11:DG	P	5.13
1	U8	17:DA	O3'	18:DG	P	5.13
1	V3	4:DA	O3'	5:DA	P	5.13
1	VD	10:DA	O3'	11:DA	P	5.13
1	A1	12:DA	O3'	13:DC	P	5.12
1	A1	26:DC	O3'	27:DA	P	5.12
1	B1	28:DA	O3'	29:DA	P	5.12
1	B2	13:DA	O3'	14:DC	P	5.12
1	B3	13:DA	O3'	14:DT	P	5.12
1	B4	13:DC	O3'	14:DG	P	5.12
1	B5	14:DA	O3'	15:DG	P	5.12
1	B6	14:DG	O3'	15:DG	P	5.12
1	BA	20:DA	O3'	21:DA	P	5.12
1	C3	16:DA	O3'	17:DA	P	5.12
1	C5	13:DA	O3'	14:DC	P	5.12
1	C5	34:DA	O3'	35:DG	P	5.12
1	C6	35:DA	O3'	36:DG	P	5.12
1	C8	24:DA	O3'	25:DG	P	5.12
1	C8	38:DA	O3'	39:DG	P	5.12
1	D3	18:DA	O3'	19:DA	P	5.12
1	D6	21:DA	O3'	22:DC	P	5.12
1	D7	14:DG	O3'	15:DG	P	5.12
1	D8	21:DC	O3'	22:DA	P	5.12
1	D9	21:DA	O3'	22:DA	P	5.12
1	DC	13:DC	O3'	14:DG	P	5.12
1	E2	37:DA	O3'	38:DC	P	5.12
1	E6	14:DA	O3'	15:DC	P	5.12
1	F2	11:DA	O3'	12:DG	P	5.12
1	F5	24:DA	O3'	25:DC	P	5.12
1	FD	28:DA	O3'	29:DC	P	5.12
1	G1	10:DC	O3'	11:DA	P	5.12
1	G7	18:DA	O3'	19:DC	P	5.12
1	GC	7:DA	O3'	8:DC	P	5.12
1	H1	13:DG	O3'	14:DG	P	5.12
1	H3	21:DA	O3'	22:DA	P	5.12

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	H3	28:DC	O3'	29:DA	P	5.12
1	H5	12:DT	O3'	13:DA	P	5.12
1	H6	14:DA	O3'	15:DA	P	5.12
1	H8	17:DA	O3'	18:DC	P	5.12
1	H9	10:DG	O3'	11:DG	P	5.12
1	I2	21:DG	O3'	22:DG	P	5.12
1	I3	10:DA	O3'	11:DC	P	5.12
1	I3	31:DA	O3'	32:DG	P	5.12
1	I5	28:DA	O3'	29:DA	P	5.12
1	I8	30:DA	O3'	31:DC	P	5.12
1	I9	23:DA	O3'	24:DG	P	5.12
1	J2	14:DA	O3'	15:DC	P	5.12
1	J6	7:DC	O3'	8:DA	P	5.12
1	J6	14:DA	O3'	15:DG	P	5.12
1	J7	35:DG	O3'	36:DG	P	5.12
1	J7	49:DA	O3'	50:DC	P	5.12
1	J8	7:DA	O3'	8:DA	P	5.12
1	J9	13:DA	O3'	14:DC	P	5.12
1	JC	7:DA	O3'	8:DA	P	5.12
1	JD	7:DA	O3'	8:DA	P	5.12
1	K1	21:DA	O3'	22:DG	P	5.12
1	K2	30:DA	O3'	31:DT	P	5.12
1	K5	4:DC	O3'	5:DA	P	5.12
1	K7	11:DC	O3'	12:DA	P	5.12
1	KA	21:DA	O3'	22:DA	P	5.12
1	L2	13:DA	O3'	14:DA	P	5.12
1	L2	34:DA	O3'	35:DC	P	5.12
1	L5	14:DC	O3'	15:DA	P	5.12
1	L7	35:DA	O3'	36:DG	P	5.12
1	L7	42:DC	O3'	43:DA	P	5.12
1	LC	13:DA	O3'	14:DA	P	5.12
1	LD	13:DC	O3'	14:DA	P	5.12
1	M3	7:DA	O3'	8:DC	P	5.12
1	M5	35:DA	O3'	36:DC	P	5.12
1	M6	7:DA	O3'	8:DA	P	5.12
1	M7	3:DA	O3'	4:DA	P	5.12
1	MC	7:DC	O3'	8:DG	P	5.12
1	N2	7:DG	O3'	8:DG	P	5.12
1	N6	44:DA	O3'	45:DA	P	5.12
1	N9	3:DG	O3'	4:DG	P	5.12
1	O2	28:DG	O3'	29:DG	P	5.12
1	O3	17:DA	O3'	18:DG	P	5.12

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	O8	11:DA	O3'	12:DA	P	5.12
1	O8	32:DA	O3'	33:DA	P	5.12
1	OD	7:DA	O3'	8:DA	P	5.12
1	OD	21:DA	O3'	22:DG	P	5.12
1	P3	10:DC	O3'	11:DA	P	5.12
1	P3	31:DA	O3'	32:DC	P	5.12
1	P5	6:DA	O3'	7:DG	P	5.12
1	P7	13:DC	O3'	14:DA	P	5.12
1	QC	16:DA	O3'	17:DA	P	5.12
1	R5	28:DA	O3'	29:DA	P	5.12
1	R8	7:DA	O3'	8:DC	P	5.12
1	S2	4:DG	O3'	5:DG	P	5.12
1	SD	20:DA	O3'	21:DA	P	5.12
1	T7	31:DA	O3'	32:DC	P	5.12
1	T9	13:DA	O3'	14:DT	P	5.12
1	TA	4:DC	O3'	5:DG	P	5.12
1	V5	13:DG	O3'	14:DA	P	5.12
1	VA	11:DG	O3'	12:DG	P	5.12
1	VA	18:DA	O3'	19:DG	P	5.12
1	VC	14:DA	O3'	15:DA	P	5.12
1	WD	13:DT	O3'	14:DA	P	5.12
1	X9	52:DA	O3'	53:DG	P	5.12
1	A1	33:DA	O3'	34:DC	P	5.11
1	A1	47:DA	O3'	48:DA	P	5.11
1	A7	20:DT	O3'	21:DA	P	5.11
1	AD	37:DT	O3'	38:DG	P	5.11
1	B1	7:DG	O3'	8:DC	P	5.11
1	B1	14:DT	O3'	15:DA	P	5.11
1	B1	35:DT	O3'	36:DA	P	5.11
1	B5	28:DT	O3'	29:DG	P	5.11
1	B9	14:DG	O3'	15:DC	P	5.11
1	BC	27:DG	O3'	28:DG	P	5.11
1	C6	7:DG	O3'	8:DA	P	5.11
1	C6	14:DC	O3'	15:DT	P	5.11
1	CD	14:DG	O3'	15:DA	P	5.11
1	D1	7:DT	O3'	8:DC	P	5.11
1	D6	7:DT	O3'	8:DA	P	5.11
1	D6	14:DA	O3'	15:DA	P	5.11
1	D8	35:DG	O3'	36:DA	P	5.11
1	DD	27:DA	O3'	28:DT	P	5.11
1	E1	14:DG	O3'	15:DA	P	5.11
1	E3	14:DA	O3'	15:DC	P	5.11

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	E6	7:DG	O3'	8:DA	P	5.11
1	E6	21:DC	O3'	22:DC	P	5.11
1	E8	23:DA	O3'	24:DT	P	5.11
1	E9	20:DC	O3'	21:DC	P	5.11
1	E9	41:DG	O3'	42:DA	P	5.11
1	F2	25:DG	O3'	26:DA	P	5.11
1	F3	7:DC	O3'	8:DA	P	5.11
1	F5	3:DG	O3'	4:DC	P	5.11
1	F5	10:DT	O3'	11:DA	P	5.11
1	F5	17:DC	O3'	18:DG	P	5.11
1	F5	38:DT	O3'	39:DA	P	5.11
1	F7	4:DT	O3'	5:DA	P	5.11
1	F7	11:DA	O3'	12:DC	P	5.11
1	F9	13:DA	O3'	14:DC	P	5.11
1	G2	13:DC	O3'	14:DT	P	5.11
1	G5	7:DG	O3'	8:DG	P	5.11
1	G5	14:DG	O3'	15:DA	P	5.11
1	G6	30:DC	O3'	31:DA	P	5.11
1	H2	34:DC	O3'	35:DA	P	5.11
1	H5	5:DT	O3'	6:DG	P	5.11
1	H6	7:DG	O3'	8:DA	P	5.11
1	I2	42:DA	O3'	43:DC	P	5.11
1	I3	17:DG	O3'	18:DA	P	5.11
1	I3	45:DG	O3'	46:DC	P	5.11
1	I3	52:DC	O3'	53:DT	P	5.11
1	I6	14:DA	O3'	15:DC	P	5.11
1	I8	37:DG	O3'	38:DC	P	5.11
1	ID	5:DG	O3'	6:DA	P	5.11
1	J1	7:DC	O3'	8:DG	P	5.11
1	J1	21:DA	O3'	22:DT	P	5.11
1	J5	21:DG	O3'	22:DA	P	5.11
1	J8	14:DA	O3'	15:DC	P	5.11
1	J8	28:DG	O3'	29:DG	P	5.11
1	K1	14:DT	O3'	15:DA	P	5.11
1	K1	28:DG	O3'	29:DA	P	5.11
1	K5	32:DG	O3'	33:DA	P	5.11
1	K7	32:DG	O3'	33:DC	P	5.11
1	KA	35:DA	O3'	36:DT	P	5.11
1	L1	14:DA	O3'	15:DA	P	5.11
1	L1	21:DA	O3'	22:DT	P	5.11
1	L1	28:DC	O3'	29:DG	P	5.11
1	L2	20:DA	O3'	21:DT	P	5.11

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	L3	14:DT	O3'	15:DG	P	5.11
1	L7	7:DA	O3'	8:DA	P	5.11
1	L7	14:DT	O3'	15:DA	P	5.11
1	L7	28:DT	O3'	29:DC	P	5.11
1	L9	14:DG	O3'	15:DA	P	5.11
1	M6	14:DA	O3'	15:DT	P	5.11
1	M9	16:DA	O3'	17:DT	P	5.11
1	MA	41:DG	O3'	42:DA	P	5.11
1	MD	51:DC	O3'	52:DA	P	5.11
1	N2	14:DG	O3'	15:DC	P	5.11
1	N9	24:DG	O3'	25:DC	P	5.11
1	N9	38:DG	O3'	39:DA	P	5.11
1	ND	12:DT	O3'	13:DG	P	5.11
1	O2	14:DC	O3'	15:DA	P	5.11
1	O2	35:DA	O3'	36:DA	P	5.11
1	O5	34:DT	O3'	35:DA	P	5.11
1	O7	12:DG	O3'	13:DG	P	5.11
1	O7	26:DG	O3'	27:DA	P	5.11
1	O8	18:DT	O3'	19:DA	P	5.11
1	O9	13:DT	O3'	14:DA	P	5.11
1	P3	17:DA	O3'	18:DA	P	5.11
1	P3	24:DT	O3'	25:DA	P	5.11
1	PA	14:DA	O3'	15:DA	P	5.11
1	PA	21:DA	O3'	22:DT	P	5.11
1	Q5	28:DG	O3'	29:DG	P	5.11
1	Q5	35:DT	O3'	36:DT	P	5.11
1	QA	7:DT	O3'	8:DA	P	5.11
1	QA	14:DG	O3'	15:DG	P	5.11
1	QD	14:DG	O3'	15:DC	P	5.11
1	R2	14:DT	O3'	15:DG	P	5.11
1	R7	9:DC	O3'	10:DG	P	5.11
1	R8	21:DT	O3'	22:DA	P	5.11
1	R9	32:DA	O3'	33:DA	P	5.11
1	S5	21:DC	O3'	22:DG	P	5.11
1	S7	10:DG	O3'	11:DC	P	5.11
1	S8	31:DT	O3'	32:DA	P	5.11
1	S9	16:DA	O3'	17:DT	P	5.11
1	SD	13:DT	O3'	14:DG	P	5.11
1	T3	14:DG	O3'	15:DC	P	5.11
1	T7	38:DG	O3'	39:DG	P	5.11
1	T7	52:DA	O3'	53:DA	P	5.11
1	TC	16:DC	O3'	17:DA	P	5.11

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	TD	28:DA	O3'	29:DT	P	5.11
1	TD	35:DA	O3'	36:DA	P	5.11
1	U2	16:DA	O3'	17:DC	P	5.11
1	U3	7:DT	O3'	8:DA	P	5.11
1	UA	14:DG	O3'	15:DC	P	5.11
1	UD	16:DA	O3'	17:DT	P	5.11
1	V2	4:DT	O3'	5:DA	P	5.11
1	V2	11:DT	O3'	12:DG	P	5.11
1	V3	11:DC	O3'	12:DG	P	5.11
1	V8	17:DA	O3'	18:DT	P	5.11
1	V8	24:DG	O3'	25:DA	P	5.11
1	V9	11:DA	O3'	12:DT	P	5.11
1	VA	4:DT	O3'	5:DG	P	5.11
1	VD	17:DA	O3'	18:DA	P	5.11
1	W3	14:DT	O3'	15:DA	P	5.11
1	W3	28:DT	O3'	29:DA	P	5.11
1	W3	42:DG	O3'	43:DA	P	5.11
1	W9	14:DG	O3'	15:DA	P	5.11
1	X9	3:DG	O3'	4:DG	P	5.11
1	X9	38:DT	O3'	39:DA	P	5.11
1	A1	5:DT	O3'	6:DA	P	5.10
1	A1	19:DT	O3'	20:DC	P	5.10
1	A5	14:DT	O3'	15:DC	P	5.10
1	A5	35:DA	O3'	36:DT	P	5.10
1	A8	16:DG	O3'	17:DA	P	5.10
1	AA	23:DG	O3'	24:DA	P	5.10
1	AC	16:DT	O3'	17:DC	P	5.10
1	B5	21:DT	O3'	22:DC	P	5.10
1	B9	35:DT	O3'	36:DC	P	5.10
1	C2	13:DT	O3'	14:DA	P	5.10
1	C6	21:DT	O3'	22:DA	P	5.10
1	C6	28:DT	O3'	29:DC	P	5.10
1	C7	5:DT	O3'	6:DC	P	5.10
1	C8	10:DA	O3'	11:DT	P	5.10
1	C9	4:DC	O3'	5:DC	P	5.10
1	CC	16:DT	O3'	17:DC	P	5.10
1	D1	28:DC	O3'	29:DC	P	5.10
1	D6	28:DT	O3'	29:DA	P	5.10
1	D6	35:DG	O3'	36:DC	P	5.10
1	D8	14:DT	O3'	15:DA	P	5.10
1	D8	28:DT	O3'	29:DC	P	5.10
1	D8	42:DT	O3'	43:DA	P	5.10

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	E2	23:DT	O3'	24:DC	P	5.10
1	E8	16:DA	O3'	17:DT	P	5.10
1	E9	27:DA	O3'	28:DT	P	5.10
1	ED	23:DC	O3'	24:DA	P	5.10
1	F1	4:DG	O3'	5:DA	P	5.10
1	F8	8:DT	O3'	9:DC	P	5.10
1	FC	7:DG	O3'	8:DA	P	5.10
1	FD	21:DA	O3'	22:DT	P	5.10
1	G6	23:DT	O3'	24:DA	P	5.10
1	G7	11:DA	O3'	12:DT	P	5.10
1	G8	4:DG	O3'	5:DA	P	5.10
1	GD	13:DG	O3'	14:DC	P	5.10
1	H2	27:DA	O3'	28:DT	P	5.10
1	H3	7:DT	O3'	8:DT	P	5.10
1	H3	35:DT	O3'	36:DC	P	5.10
1	H5	33:DG	O3'	34:DC	P	5.10
1	H9	3:DA	O3'	4:DT	P	5.10
1	H9	17:DC	O3'	18:DA	P	5.10
1	HC	16:DC	O3'	17:DC	P	5.10
1	I2	7:DA	O3'	8:DT	P	5.10
1	I2	28:DT	O3'	29:DC	P	5.10
1	I3	24:DT	O3'	25:DT	P	5.10
1	I5	7:DC	O3'	8:DA	P	5.10
1	I5	14:DG	O3'	15:DC	P	5.10
1	I7	20:DC	O3'	21:DC	P	5.10
1	I7	27:DT	O3'	28:DC	P	5.10
1	I8	23:DT	O3'	24:DA	P	5.10
1	IC	20:DC	O3'	21:DA	P	5.10
1	ID	12:DC	O3'	13:DC	P	5.10
1	J2	21:DG	O3'	22:DC	P	5.10
1	J2	28:DT	O3'	29:DC	P	5.10
1	J3	20:DT	O3'	21:DT	P	5.10
1	J6	28:DT	O3'	29:DA	P	5.10
1	J7	14:DT	O3'	15:DC	P	5.10
1	J7	21:DC	O3'	22:DC	P	5.10
1	J8	35:DC	O3'	36:DT	P	5.10
1	JD	21:DA	O3'	22:DT	P	5.10
1	JD	28:DC	O3'	29:DT	P	5.10
1	K1	7:DT	O3'	8:DC	P	5.10
1	K1	35:DT	O3'	36:DA	P	5.10
1	K2	23:DT	O3'	24:DA	P	5.10
1	K3	13:DT	O3'	14:DC	P	5.10

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	K5	46:DC	O3'	47:DC	P	5.10
1	K7	4:DC	O3'	5:DA	P	5.10
1	K7	25:DT	O3'	26:DT	P	5.10
1	K8	11:DA	O3'	12:DT	P	5.10
1	K9	13:DA	O3'	14:DT	P	5.10
1	K9	20:DG	O3'	21:DC	P	5.10
1	KA	7:DT	O3'	8:DC	P	5.10
1	KA	14:DC	O3'	15:DA	P	5.10
1	KC	16:DG	O3'	17:DA	P	5.10
1	KD	16:DG	O3'	17:DA	P	5.10
1	L1	7:DG	O3'	8:DA	P	5.10
1	L2	27:DC	O3'	28:DC	P	5.10
1	L6	16:DT	O3'	17:DA	P	5.10
1	L7	21:DC	O3'	22:DC	P	5.10
1	L8	17:DG	O3'	18:DC	P	5.10
1	LA	10:DT	O3'	11:DC	P	5.10
1	LA	17:DC	O3'	18:DC	P	5.10
1	M5	14:DA	O3'	15:DT	P	5.10
1	M5	28:DG	O3'	29:DT	P	5.10
1	M7	10:DT	O3'	11:DC	P	5.10
1	MA	20:DG	O3'	21:DC	P	5.10
1	MA	27:DC	O3'	28:DA	P	5.10
1	MA	34:DG	O3'	35:DA	P	5.10
1	MD	9:DA	O3'	10:DT	P	5.10
1	MD	30:DT	O3'	31:DA	P	5.10
1	MD	44:DA	O3'	45:DT	P	5.10
1	N3	28:DT	O3'	29:DC	P	5.10
1	N6	30:DA	O3'	31:DT	P	5.10
1	N6	37:DT	O3'	38:DT	P	5.10
1	N9	31:DG	O3'	32:DA	P	5.10
1	NC	10:DG	O3'	11:DA	P	5.10
1	NC	24:DG	O3'	25:DC	P	5.10
1	NC	31:DC	O3'	32:DC	P	5.10
1	O2	21:DA	O3'	22:DT	P	5.10
1	O2	49:DC	O3'	50:DC	P	5.10
1	O2	56:DC	O3'	57:DC	P	5.10
1	O3	10:DG	O3'	11:DA	P	5.10
1	O5	13:DT	O3'	14:DC	P	5.10
1	O5	20:DC	O3'	21:DC	P	5.10
1	O5	27:DG	O3'	28:DA	P	5.10
1	O6	7:DG	O3'	8:DC	P	5.10
1	O7	5:DG	O3'	6:DA	P	5.10

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	O7	19:DT	O3'	20:DC	P	5.10
1	O8	4:DT	O3'	5:DT	P	5.10
1	O8	25:DT	O3'	26:DC	P	5.10
1	OC	16:DC	O3'	17:DC	P	5.10
1	OD	42:DA	O3'	43:DT	P	5.10
1	OD	49:DT	O3'	50:DC	P	5.10
1	P2	16:DT	O3'	17:DT	P	5.10
1	P6	13:DT	O3'	14:DC	P	5.10
1	P8	17:DC	O3'	18:DT	P	5.10
1	P9	16:DT	O3'	17:DC	P	5.10
1	PA	7:DG	O3'	8:DA	P	5.10
1	PD	6:DC	O3'	7:DT	P	5.10
1	PD	13:DA	O3'	14:DT	P	5.10
1	Q5	7:DC	O3'	8:DC	P	5.10
1	Q8	16:DC	O3'	17:DA	P	5.10
1	Q9	11:DT	O3'	12:DA	P	5.10
1	Q9	25:DC	O3'	26:DA	P	5.10
1	Q9	32:DT	O3'	33:DT	P	5.10
1	QC	23:DA	O3'	24:DT	P	5.10
1	QD	7:DC	O3'	8:DT	P	5.10
1	QD	21:DC	O3'	22:DT	P	5.10
1	R5	7:DC	O3'	8:DA	P	5.10
1	R5	14:DG	O3'	15:DT	P	5.10
1	R8	14:DT	O3'	15:DC	P	5.10
1	R9	4:DA	O3'	5:DT	P	5.10
1	R9	18:DA	O3'	19:DT	P	5.10
1	RC	20:DC	O3'	21:DC	P	5.10
1	S5	7:DC	O3'	8:DC	P	5.10
1	S8	17:DC	O3'	18:DC	P	5.10
1	S8	38:DT	O3'	39:DA	P	5.10
1	SA	16:DA	O3'	17:DT	P	5.10
1	T3	7:DC	O3'	8:DC	P	5.10
1	T3	21:DC	O3'	22:DC	P	5.10
1	T3	28:DC	O3'	29:DC	P	5.10
1	T7	24:DC	O3'	25:DA	P	5.10
1	T7	45:DT	O3'	46:DT	P	5.10
1	T8	16:DC	O3'	17:DC	P	5.10
1	TA	25:DG	O3'	26:DA	P	5.10
1	U5	14:DT	O3'	15:DC	P	5.10
1	U5	35:DT	O3'	36:DA	P	5.10
1	U9	16:DC	O3'	17:DA	P	5.10
1	UC	20:DA	O3'	21:DT	P	5.10

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	V7	16:DG	O3'	17:DA	P	5.10
1	V9	4:DG	O3'	5:DA	P	5.10
1	V9	18:DC	O3'	19:DA	P	5.10
1	VC	21:DT	O3'	22:DA	P	5.10
1	W3	21:DA	O3'	22:DT	P	5.10
1	W3	35:DC	O3'	36:DC	P	5.10
1	W8	16:DT	O3'	17:DA	P	5.10
1	X5	16:DT	O3'	17:DC	P	5.10
1	X9	17:DT	O3'	18:DA	P	5.10
1	A7	27:DT	O3'	28:DT	P	5.09
1	B7	13:DG	O3'	14:DT	P	5.09
1	B9	28:DG	O3'	29:DT	P	5.09
1	CD	7:DG	O3'	8:DT	P	5.09
1	D3	4:DT	O3'	5:DT	P	5.09
1	D3	11:DT	O3'	12:DT	P	5.09
1	E2	30:DG	O3'	31:DT	P	5.09
1	EC	7:DT	O3'	8:DT	P	5.09
1	F5	31:DT	O3'	32:DT	P	5.09
1	GC	14:DG	O3'	15:DT	P	5.09
1	H5	26:DT	O3'	27:DT	P	5.09
1	J5	14:DG	O3'	15:DT	P	5.09
1	J6	35:DG	O3'	36:DT	P	5.09
1	J8	21:DT	O3'	22:DT	P	5.09
1	JC	14:DT	O3'	15:DT	P	5.09
1	JD	14:DG	O3'	15:DT	P	5.09
1	K5	25:DG	O3'	26:DT	P	5.09
1	K6	13:DG	O3'	14:DT	P	5.09
1	K8	4:DG	O3'	5:DT	P	5.09
1	KA	28:DG	O3'	29:DT	P	5.09
1	MD	16:DT	O3'	17:DT	P	5.09
1	N8	17:DC	O3'	18:DT	P	5.09
1	O2	42:DG	O3'	43:DT	P	5.09
1	PC	20:DG	O3'	21:DT	P	5.09
1	Q3	20:DG	O3'	21:DT	P	5.09
1	R3	13:DG	O3'	14:DT	P	5.09
1	RA	27:DG	O3'	28:DT	P	5.09
1	S8	24:DG	O3'	25:DT	P	5.09
1	T3	35:DG	O3'	36:DT	P	5.09
1	TA	18:DG	O3'	19:DT	P	5.09
1	TA	39:DC	O3'	40:DT	P	5.09
1	TD	21:DG	O3'	22:DT	P	5.09
1	U3	14:DG	O3'	15:DT	P	5.09

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	V5	34:DT	O3'	35:DT	P	5.09
1	W5	27:DT	O3'	28:DT	P	5.09
1	X9	10:DG	O3'	11:DT	P	5.09
1	X9	31:DT	O3'	32:DT	P	5.09
1	A2	17:DT	O3'	18:DT	P	5.08
1	B6	7:DT	O3'	8:DT	P	5.08
1	B8	22:DT	O3'	23:DT	P	5.08
1	C1	11:DC	O3'	12:DT	P	5.08
1	E5	13:DT	O3'	14:DT	P	5.08
1	E8	30:DT	O3'	31:DT	P	5.08
1	FA	7:DT	O3'	8:DT	P	5.08
1	G9	5:DC	O3'	6:DT	P	5.08
1	J3	27:DT	O3'	28:DT	P	5.08
1	J7	28:DC	O3'	29:DT	P	5.08
1	J7	42:DC	O3'	43:DT	P	5.08
1	K5	11:DT	O3'	12:DT	P	5.08
1	K7	18:DC	O3'	19:DT	P	5.08
1	L7	49:DT	O3'	50:DT	P	5.08
1	M3	21:DT	O3'	22:DT	P	5.08
1	N9	10:DT	O3'	11:DT	P	5.08
1	NC	17:DT	O3'	18:DT	P	5.08
1	T7	10:DC	O3'	11:DT	P	5.08
1	VC	7:DT	O3'	8:DT	P	5.08
1	A1	28:DC	O3'	29:DG	P	1.79
1	A1	52:DC	O3'	53:DG	P	1.79
1	A3	9:DC	O3'	10:DG	P	1.79
1	A3	12:DC	O3'	13:DG	P	1.79
1	A5	24:DC	O3'	25:DG	P	1.79
1	AA	10:DC	O3'	11:DG	P	1.79
1	AB	15:DC	O3'	16:DG	P	1.79
1	AB	203:DC	O3'	204:DG	P	1.79
1	AB	260:DC	O3'	261:DG	P	1.79
1	AB	293:DC	O3'	294:DG	P	1.79
1	AB	365:DC	O3'	366:DG	P	1.79
1	AB	428:DC	O3'	429:DG	P	1.79
1	AB	443:DC	O3'	444:DG	P	1.79
1	AB	627:DC	O3'	628:DG	P	1.79
1	AB	658:DC	O3'	659:DG	P	1.79
1	AB	686:DC	O3'	687:DG	P	1.79
1	AB	737:DC	O3'	738:DG	P	1.79
1	AB	823:DC	O3'	824:DG	P	1.79
1	AB	857:DC	O3'	858:DG	P	1.79

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	860:DC	O3'	861:DG	P	1.79
1	AB	929:DC	O3'	930:DG	P	1.79
1	AB	944:DC	O3'	945:DG	P	1.79
1	AB	950:DC	O3'	951:DG	P	1.79
1	AB	968:DC	O3'	969:DG	P	1.79
1	AB	1019:DC	O3'	1020:DG	P	1.79
1	AB	1088:DC	O3'	1089:DG	P	1.79
1	AB	1100:DC	O3'	1101:DG	P	1.79
1	AB	1124:DC	O3'	1125:DG	P	1.79
1	AB	1227:DC	O3'	1228:DG	P	1.79
1	AB	1255:DC	O3'	1256:DG	P	1.79
1	AB	1266:DC	O3'	1267:DG	P	1.79
1	AB	1390:DC	O3'	1391:DG	P	1.79
1	AB	1407:DC	O3'	1408:DG	P	1.79
1	AB	1525:DC	O3'	1526:DG	P	1.79
1	AB	1723:DC	O3'	1724:DG	P	1.79
1	AB	1810:DC	O3'	1811:DG	P	1.79
1	AB	1814:DC	O3'	1815:DG	P	1.79
1	AB	1820:DC	O3'	1821:DG	P	1.79
1	AB	1942:DC	O3'	1943:DG	P	1.79
1	AB	1980:DC	O3'	1981:DG	P	1.79
1	AB	1982:DC	O3'	1983:DG	P	1.79
1	AB	1997:DC	O3'	1998:DG	P	1.79
1	AB	2027:DC	O3'	2028:DG	P	1.79
1	AB	2055:DC	O3'	2056:DG	P	1.79
1	AB	2083:DC	O3'	2084:DG	P	1.79
1	AB	2109:DC	O3'	2110:DG	P	1.79
1	AB	2170:DC	O3'	2171:DG	P	1.79
1	AB	2172:DC	O3'	2173:DG	P	1.79
1	AB	2205:DC	O3'	2206:DG	P	1.79
1	AB	2208:DC	O3'	2209:DG	P	1.79
1	AB	2266:DC	O3'	2267:DG	P	1.79
1	AB	2312:DC	O3'	2313:DG	P	1.79
1	AB	2340:DC	O3'	2341:DG	P	1.79
1	AB	2414:DC	O3'	2415:DG	P	1.79
1	AB	2434:DC	O3'	2435:DG	P	1.79
1	AB	2454:DC	O3'	2455:DG	P	1.79
1	AB	2523:DC	O3'	2524:DG	P	1.79
1	AB	2525:DC	O3'	2526:DG	P	1.79
1	AB	2590:DC	O3'	2591:DG	P	1.79
1	AB	2655:DC	O3'	2656:DG	P	1.79
1	AB	2673:DC	O3'	2674:DG	P	1.79

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	2919:DC	O3'	2920:DG	P	1.79
1	AB	2976:DC	O3'	2977:DG	P	1.79
1	AB	2995:DC	O3'	2996:DG	P	1.79
1	AB	3019:DC	O3'	3020:DG	P	1.79
1	AB	3141:DC	O3'	3142:DG	P	1.79
1	AB	3167:DC	O3'	3168:DG	P	1.79
1	AB	3207:DC	O3'	3208:DG	P	1.79
1	AB	3291:DC	O3'	3292:DG	P	1.79
1	AB	3457:DC	O3'	3458:DG	P	1.79
1	AB	3474:DC	O3'	3475:DG	P	1.79
1	AB	3490:DC	O3'	3491:DG	P	1.79
1	AB	3524:DC	O3'	3525:DG	P	1.79
1	AB	3528:DC	O3'	3529:DG	P	1.79
1	AB	3565:DC	O3'	3566:DG	P	1.79
1	AB	3567:DC	O3'	3568:DG	P	1.79
1	AB	3610:DC	O3'	3611:DG	P	1.79
1	AB	3620:DC	O3'	3621:DG	P	1.79
1	AB	3730:DC	O3'	3731:DG	P	1.79
1	AB	3756:DC	O3'	3757:DG	P	1.79
1	AB	3780:DC	O3'	3781:DG	P	1.79
1	AB	3954:DC	O3'	3955:DG	P	1.79
1	AB	3984:DC	O3'	3985:DG	P	1.79
1	AB	4003:DC	O3'	4004:DG	P	1.79
1	AB	4084:DC	O3'	4085:DG	P	1.79
1	AB	4086:DC	O3'	4087:DG	P	1.79
1	AB	4089:DC	O3'	4090:DG	P	1.79
1	AB	4104:DC	O3'	4105:DG	P	1.79
1	AB	4106:DC	O3'	4107:DG	P	1.79
1	AB	4111:DC	O3'	4112:DG	P	1.79
1	AB	4117:DC	O3'	4118:DG	P	1.79
1	AB	4132:DC	O3'	4133:DG	P	1.79
1	AB	4140:DC	O3'	4141:DG	P	1.79
1	AB	4144:DC	O3'	4145:DG	P	1.79
1	AB	4232:DC	O3'	4233:DG	P	1.79
1	AB	4247:DC	O3'	4248:DG	P	1.79
1	AB	4255:DC	O3'	4256:DG	P	1.79
1	AB	4289:DC	O3'	4290:DG	P	1.79
1	AB	4302:DC	O3'	4303:DG	P	1.79
1	AB	4321:DC	O3'	4322:DG	P	1.79
1	AB	4331:DC	O3'	4332:DG	P	1.79
1	AB	4430:DC	O3'	4431:DG	P	1.79
1	AB	4436:DC	O3'	4437:DG	P	1.79

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	4481:DC	O3'	4482:DG	P	1.79
1	AB	4541:DC	O3'	4542:DG	P	1.79
1	AB	4589:DC	O3'	4590:DG	P	1.79
1	AB	4599:DC	O3'	4600:DG	P	1.79
1	AB	4601:DC	O3'	4602:DG	P	1.79
1	AB	4603:DC	O3'	4604:DG	P	1.79
1	AB	4610:DC	O3'	4611:DG	P	1.79
1	AB	4666:DC	O3'	4667:DG	P	1.79
1	AB	4671:DC	O3'	4672:DG	P	1.79
1	AB	4730:DC	O3'	4731:DG	P	1.79
1	AB	4735:DC	O3'	4736:DG	P	1.79
1	AB	4758:DC	O3'	4759:DG	P	1.79
1	AB	4800:DC	O3'	4801:DG	P	1.79
1	AB	4806:DC	O3'	4807:DG	P	1.79
1	AB	4867:DC	O3'	4868:DG	P	1.79
1	AB	4870:DC	O3'	4871:DG	P	1.79
1	AB	4880:DC	O3'	4881:DG	P	1.79
1	AB	4883:DC	O3'	4884:DG	P	1.79
1	AB	4942:DC	O3'	4943:DG	P	1.79
1	AB	4952:DC	O3'	4953:DG	P	1.79
1	AB	4997:DC	O3'	4998:DG	P	1.79
1	AB	5011:DC	O3'	5012:DG	P	1.79
1	AB	5018:DC	O3'	5019:DG	P	1.79
1	AB	5071:DC	O3'	5072:DG	P	1.79
1	AB	5086:DC	O3'	5087:DG	P	1.79
1	AB	5095:DC	O3'	5096:DG	P	1.79
1	AB	5133:DC	O3'	5134:DG	P	1.79
1	AB	5149:DC	O3'	5150:DG	P	1.79
1	AB	5166:DC	O3'	5167:DG	P	1.79
1	AB	5214:DC	O3'	5215:DG	P	1.79
1	AB	5440:DC	O3'	5441:DG	P	1.79
1	AB	5447:DC	O3'	5448:DG	P	1.79
1	AB	5454:DC	O3'	5455:DG	P	1.79
1	AB	5532:DC	O3'	5533:DG	P	1.79
1	AB	5592:DC	O3'	5593:DG	P	1.79
1	AB	5703:DC	O3'	5704:DG	P	1.79
1	AB	5863:DC	O3'	5864:DG	P	1.79
1	AB	5865:DC	O3'	5866:DG	P	1.79
1	AB	5992:DC	O3'	5993:DG	P	1.79
1	AB	6063:DC	O3'	6064:DG	P	1.79
1	AB	6167:DC	O3'	6168:DG	P	1.79
1	AB	6169:DC	O3'	6170:DG	P	1.79

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	6186:DC	O3'	6187:DG	P	1.79
1	AB	6336:DC	O3'	6337:DG	P	1.79
1	AB	6348:DC	O3'	6349:DG	P	1.79
1	AB	6412:DC	O3'	6413:DG	P	1.79
1	AB	6430:DC	O3'	6431:DG	P	1.79
1	AB	6478:DC	O3'	6479:DG	P	1.79
1	AB	6493:DC	O3'	6494:DG	P	1.79
1	AB	6572:DC	O3'	6573:DG	P	1.79
1	AB	6580:DC	O3'	6581:DG	P	1.79
1	AB	6591:DC	O3'	6592:DG	P	1.79
1	AB	6645:DC	O3'	6646:DG	P	1.79
1	AB	6723:DC	O3'	6724:DG	P	1.79
1	AB	6881:DC	O3'	6882:DG	P	1.79
1	AB	6948:DC	O3'	6949:DG	P	1.79
1	AB	7077:DC	O3'	7078:DG	P	1.79
1	AB	7090:DC	O3'	7091:DG	P	1.79
1	AB	7186:DC	O3'	7187:DG	P	1.79
1	AB	7201:DC	O3'	7202:DG	P	1.79
1	AB	7207:DC	O3'	7208:DG	P	1.79
1	AB	7215:DC	O3'	7216:DG	P	1.79
1	AB	7242:DC	O3'	7243:DG	P	1.79
1	AD	15:DC	O3'	16:DG	P	1.79
1	B1	8:DC	O3'	9:DG	P	1.79
1	B1	31:DC	O3'	32:DG	P	1.79
1	B5	2:DC	O3'	3:DG	P	1.79
1	B9	16:DC	O3'	17:DG	P	1.79
1	B9	33:DC	O3'	34:DG	P	1.79
1	BD	6:DC	O3'	7:DG	P	1.79
1	C3	23:DC	O3'	24:DG	P	1.79
1	C6	40:DC	O3'	41:DG	P	1.79
1	C8	27:DC	O3'	28:DG	P	1.79
1	C9	5:DC	O3'	6:DG	P	1.79
1	CC	17:DC	O3'	18:DG	P	1.79
1	D1	10:DC	O3'	11:DG	P	1.79
1	D3	9:DC	O3'	10:DG	P	1.79
1	D5	5:DC	O3'	6:DG	P	1.79
1	D6	4:DC	O3'	5:DG	P	1.79
1	D7	13:DC	O3'	14:DG	P	1.79
1	DA	19:DC	O3'	20:DG	P	1.79
1	DD	5:DC	O3'	6:DG	P	1.79
1	E1	13:DC	O3'	14:DG	P	1.79
1	E2	5:DC	O3'	6:DG	P	1.79

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	E2	39:DC	O3'	40:DG	P	1.79
1	E6	6:DC	O3'	7:DG	P	1.79
1	E6	15:DC	O3'	16:DG	P	1.79
1	E7	12:DC	O3'	13:DG	P	1.79
1	E8	27:DC	O3'	28:DG	P	1.79
1	E9	17:DC	O3'	18:DG	P	1.79
1	ED	30:DC	O3'	31:DG	P	1.79
1	ED	36:DC	O3'	37:DG	P	1.79
1	F1	1:DC	O3'	2:DG	P	1.79
1	F3	16:DC	O3'	17:DG	P	1.79
1	F6	10:DC	O3'	11:DG	P	1.79
1	F8	10:DC	O3'	11:DG	P	1.79
1	F9	14:DC	O3'	15:DG	P	1.79
1	FD	45:DC	O3'	46:DG	P	1.79
1	G1	7:DC	O3'	8:DG	P	1.79
1	G3	10:DC	O3'	11:DG	P	1.79
1	G3	13:DC	O3'	14:DG	P	1.79
1	G3	19:DC	O3'	20:DG	P	1.79
1	G3	25:DC	O3'	26:DG	P	1.79
1	G5	13:DC	O3'	14:DG	P	1.79
1	G8	14:DC	O3'	15:DG	P	1.79
1	GA	1:DC	O3'	2:DG	P	1.79
1	GC	2:DC	O3'	3:DG	P	1.79
1	GC	16:DC	O3'	17:DG	P	1.79
1	H2	29:DC	O3'	30:DG	P	1.79
1	H3	36:DC	O3'	37:DG	P	1.79
1	H8	18:DC	O3'	19:DG	P	1.79
1	H9	19:DC	O3'	20:DG	P	1.79
1	H9	29:DC	O3'	30:DG	P	1.79
1	HC	14:DC	O3'	15:DG	P	1.79
1	HD	18:DC	O3'	19:DG	P	1.79
1	HD	24:DC	O3'	25:DG	P	1.79
1	I2	18:DC	O3'	19:DG	P	1.79
1	I2	29:DC	O3'	30:DG	P	1.79
1	I3	19:DC	O3'	20:DG	P	1.79
1	I3	46:DC	O3'	47:DG	P	1.79
1	I3	49:DC	O3'	50:DG	P	1.79
1	I8	38:DC	O3'	39:DG	P	1.79
1	I9	26:DC	O3'	27:DG	P	1.79
1	J2	15:DC	O3'	16:DG	P	1.79
1	J6	34:DC	O3'	35:DG	P	1.79
1	JA	9:DC	O3'	10:DG	P	1.79

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	JC	3:DC	O3'	4:DG	P	1.79
1	JD	13:DC	O3'	14:DG	P	1.79
1	JD	25:DC	O3'	26:DG	P	1.79
1	K2	10:DC	O3'	11:DG	P	1.79
1	K2	36:DC	O3'	37:DG	P	1.79
1	K3	5:DC	O3'	6:DG	P	1.79
1	K3	14:DC	O3'	15:DG	P	1.79
1	K7	8:DC	O3'	9:DG	P	1.79
1	KA	2:DC	O3'	3:DG	P	1.79
1	L1	5:DC	O3'	6:DG	P	1.79
1	L5	3:DC	O3'	4:DG	P	1.79
1	L6	24:DC	O3'	25:DG	P	1.79
1	L7	29:DC	O3'	30:DG	P	1.79
1	LA	18:DC	O3'	19:DG	P	1.79
1	LC	17:DC	O3'	18:DG	P	1.79
1	M3	25:DC	O3'	26:DG	P	1.79
1	M6	20:DC	O3'	21:DG	P	1.79
1	MA	10:DC	O3'	11:DG	P	1.79
1	MA	13:DC	O3'	14:DG	P	1.79
1	MA	44:DC	O3'	45:DG	P	1.79
1	MD	12:DC	O3'	13:DG	P	1.79
1	MD	14:DC	O3'	15:DG	P	1.79
1	MD	32:DC	O3'	33:DG	P	1.79
1	N3	6:DC	O3'	7:DG	P	1.79
1	N3	18:DC	O3'	19:DG	P	1.79
1	N3	24:DC	O3'	25:DG	P	1.79
1	N5	11:DC	O3'	12:DG	P	1.79
1	N6	35:DC	O3'	36:DG	P	1.79
1	N7	12:DC	O3'	13:DG	P	1.79
1	N7	19:DC	O3'	20:DG	P	1.79
1	N9	25:DC	O3'	26:DG	P	1.79
1	NC	23:DC	O3'	24:DG	P	1.79
1	O2	38:DC	O3'	39:DG	P	1.79
1	O2	53:DC	O3'	54:DG	P	1.79
1	O6	6:DC	O3'	7:DG	P	1.79
1	O8	27:DC	O3'	28:DG	P	1.79
1	OA	3:DC	O3'	4:DG	P	1.79
1	OA	11:DC	O3'	12:DG	P	1.79
1	OC	10:DC	O3'	11:DG	P	1.79
1	OC	13:DC	O3'	14:DG	P	1.79
1	P2	10:DC	O3'	11:DG	P	1.79
1	P2	12:DC	O3'	13:DG	P	1.79

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	P3	2:DC	O3'	3:DG	P	1.79
1	P3	8:DC	O3'	9:DG	P	1.79
1	P6	6:DC	O3'	7:DG	P	1.79
1	P6	11:DC	O3'	12:DG	P	1.79
1	PD	19:DC	O3'	20:DG	P	1.79
1	Q2	14:DC	O3'	15:DG	P	1.79
1	Q3	18:DC	O3'	19:DG	P	1.79
1	Q5	4:DC	O3'	5:DG	P	1.79
1	Q5	8:DC	O3'	9:DG	P	1.79
1	Q9	15:DC	O3'	16:DG	P	1.79
1	QA	1:DC	O3'	2:DG	P	1.79
1	QA	5:DC	O3'	6:DG	P	1.79
1	QA	17:DC	O3'	18:DG	P	1.79
1	QA	23:DC	O3'	24:DG	P	1.79
1	R3	18:DC	O3'	19:DG	P	1.79
1	R5	9:DC	O3'	10:DG	P	1.79
1	R9	44:DC	O3'	45:DG	P	1.79
1	RA	14:DC	O3'	15:DG	P	1.79
1	RC	27:DC	O3'	28:DG	P	1.79
1	S9	9:DC	O3'	10:DG	P	1.79
1	SA	25:DC	O3'	26:DG	P	1.79
1	T3	2:DC	O3'	3:DG	P	1.79
1	T5	1:DC	O3'	2:DG	P	1.79
1	T8	21:DC	O3'	22:DG	P	1.79
1	TA	24:DC	O3'	25:DG	P	1.79
1	TD	38:DC	O3'	39:DG	P	1.79
1	TD	40:DC	O3'	41:DG	P	1.79
1	U2	19:DC	O3'	20:DG	P	1.79
1	U3	4:DC	O3'	5:DG	P	1.79
1	U5	6:DC	O3'	7:DG	P	1.79
1	U5	26:DC	O3'	27:DG	P	1.79
1	U9	19:DC	O3'	20:DG	P	1.79
1	U9	22:DC	O3'	23:DG	P	1.79
1	UA	15:DC	O3'	16:DG	P	1.79
1	UC	30:DC	O3'	31:DG	P	1.79
1	UD	6:DC	O3'	7:DG	P	1.79
1	V3	16:DC	O3'	17:DG	P	1.79
1	V5	2:DC	O3'	3:DG	P	1.79
1	V5	5:DC	O3'	6:DG	P	1.79
1	V7	15:DC	O3'	16:DG	P	1.79
1	V9	21:DC	O3'	22:DG	P	1.79
1	VA	21:DC	O3'	22:DG	P	1.79

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	VA	23:DC	O3'	24:DG	P	1.79
1	VC	32:DC	O3'	33:DG	P	1.79
1	VD	4:DC	O3'	5:DG	P	1.79
1	W3	36:DC	O3'	37:DG	P	1.79
1	W5	34:DC	O3'	35:DG	P	1.79
1	X5	18:DC	O3'	19:DG	P	1.79
1	X9	36:DC	O3'	37:DG	P	1.79
1	X9	54:DC	O3'	55:DG	P	1.79
1	AA	19:DC	O3'	20:DG	P	1.78
1	AB	7:DC	O3'	8:DG	P	1.78
1	AB	21:DC	O3'	22:DG	P	1.78
1	AB	40:DC	O3'	41:DG	P	1.78
1	AB	43:DC	O3'	44:DG	P	1.78
1	AB	52:DC	O3'	53:DG	P	1.78
1	AB	81:DC	O3'	82:DG	P	1.78
1	AB	100:DC	O3'	101:DG	P	1.78
1	AB	149:DC	O3'	150:DG	P	1.78
1	AB	167:DC	O3'	168:DG	P	1.78
1	AB	272:DC	O3'	273:DG	P	1.78
1	AB	288:DC	O3'	289:DG	P	1.78
1	AB	329:DC	O3'	330:DG	P	1.78
1	AB	350:DC	O3'	351:DG	P	1.78
1	AB	458:DC	O3'	459:DG	P	1.78
1	AB	479:DC	O3'	480:DG	P	1.78
1	AB	496:DC	O3'	497:DG	P	1.78
1	AB	521:DC	O3'	522:DG	P	1.78
1	AB	524:DC	O3'	525:DG	P	1.78
1	AB	535:DC	O3'	536:DG	P	1.78
1	AB	749:DC	O3'	750:DG	P	1.78
1	AB	767:DC	O3'	768:DG	P	1.78
1	AB	884:DC	O3'	885:DG	P	1.78
1	AB	914:DC	O3'	915:DG	P	1.78
1	AB	998:DC	O3'	999:DG	P	1.78
1	AB	1037:DC	O3'	1038:DG	P	1.78
1	AB	1039:DC	O3'	1040:DG	P	1.78
1	AB	1076:DC	O3'	1077:DG	P	1.78
1	AB	1118:DC	O3'	1119:DG	P	1.78
1	AB	1190:DC	O3'	1191:DG	P	1.78
1	AB	1196:DC	O3'	1197:DG	P	1.78
1	AB	1283:DC	O3'	1284:DG	P	1.78
1	AB	1335:DC	O3'	1336:DG	P	1.78
1	AB	1348:DC	O3'	1349:DG	P	1.78

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	1449:DC	O3'	1450:DG	P	1.78
1	AB	1460:DC	O3'	1461:DG	P	1.78
1	AB	1468:DC	O3'	1469:DG	P	1.78
1	AB	1612:DC	O3'	1613:DG	P	1.78
1	AB	1659:DC	O3'	1660:DG	P	1.78
1	AB	1668:DC	O3'	1669:DG	P	1.78
1	AB	1738:DC	O3'	1739:DG	P	1.78
1	AB	1897:DC	O3'	1898:DG	P	1.78
1	AB	1904:DC	O3'	1905:DG	P	1.78
1	AB	1913:DC	O3'	1914:DG	P	1.78
1	AB	1921:DC	O3'	1922:DG	P	1.78
1	AB	1926:DC	O3'	1927:DG	P	1.78
1	AB	2012:DC	O3'	2013:DG	P	1.78
1	AB	2036:DC	O3'	2037:DG	P	1.78
1	AB	2237:DC	O3'	2238:DG	P	1.78
1	AB	2297:DC	O3'	2298:DG	P	1.78
1	AB	2372:DC	O3'	2373:DG	P	1.78
1	AB	2450:DC	O3'	2451:DG	P	1.78
1	AB	2539:DC	O3'	2540:DG	P	1.78
1	AB	2714:DC	O3'	2715:DG	P	1.78
1	AB	2717:DC	O3'	2718:DG	P	1.78
1	AB	2876:DC	O3'	2877:DG	P	1.78
1	AB	2884:DC	O3'	2885:DG	P	1.78
1	AB	2886:DC	O3'	2887:DG	P	1.78
1	AB	2925:DC	O3'	2926:DG	P	1.78
1	AB	2940:DC	O3'	2941:DG	P	1.78
1	AB	3211:DC	O3'	3212:DG	P	1.78
1	AB	3229:DC	O3'	3230:DG	P	1.78
1	AB	3237:DC	O3'	3238:DG	P	1.78
1	AB	3543:DC	O3'	3544:DG	P	1.78
1	AB	3679:DC	O3'	3680:DG	P	1.78
1	AB	3722:DC	O3'	3723:DG	P	1.78
1	AB	3813:DC	O3'	3814:DG	P	1.78
1	AB	3878:DC	O3'	3879:DG	P	1.78
1	AB	3889:DC	O3'	3890:DG	P	1.78
1	AB	3912:DC	O3'	3913:DG	P	1.78
1	AB	3959:DC	O3'	3960:DG	P	1.78
1	AB	4017:DC	O3'	4018:DG	P	1.78
1	AB	4028:DC	O3'	4029:DG	P	1.78
1	AB	4035:DC	O3'	4036:DG	P	1.78
1	AB	4041:DC	O3'	4042:DG	P	1.78
1	AB	4060:DC	O3'	4061:DG	P	1.78

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	4062:DC	O3'	4063:DG	P	1.78
1	AB	4072:DC	O3'	4073:DG	P	1.78
1	AB	4075:DC	O3'	4076:DG	P	1.78
1	AB	4153:DC	O3'	4154:DG	P	1.78
1	AB	4174:DC	O3'	4175:DG	P	1.78
1	AB	4179:DC	O3'	4180:DG	P	1.78
1	AB	4183:DC	O3'	4184:DG	P	1.78
1	AB	4186:DC	O3'	4187:DG	P	1.78
1	AB	4196:DC	O3'	4197:DG	P	1.78
1	AB	4211:DC	O3'	4212:DG	P	1.78
1	AB	4313:DC	O3'	4314:DG	P	1.78
1	AB	4343:DC	O3'	4344:DG	P	1.78
1	AB	4397:DC	O3'	4398:DG	P	1.78
1	AB	4461:DC	O3'	4462:DG	P	1.78
1	AB	4488:DC	O3'	4489:DG	P	1.78
1	AB	4516:DC	O3'	4517:DG	P	1.78
1	AB	4573:DC	O3'	4574:DG	P	1.78
1	AB	4582:DC	O3'	4583:DG	P	1.78
1	AB	4632:DC	O3'	4633:DG	P	1.78
1	AB	4644:DC	O3'	4645:DG	P	1.78
1	AB	4655:DC	O3'	4656:DG	P	1.78
1	AB	4812:DC	O3'	4813:DG	P	1.78
1	AB	4819:DC	O3'	4820:DG	P	1.78
1	AB	4836:DC	O3'	4837:DG	P	1.78
1	AB	4903:DC	O3'	4904:DG	P	1.78
1	AB	4919:DC	O3'	4920:DG	P	1.78
1	AB	4960:DC	O3'	4961:DG	P	1.78
1	AB	4970:DC	O3'	4971:DG	P	1.78
1	AB	4975:DC	O3'	4976:DG	P	1.78
1	AB	4979:DC	O3'	4980:DG	P	1.78
1	AB	5034:DC	O3'	5035:DG	P	1.78
1	AB	5046:DC	O3'	5047:DG	P	1.78
1	AB	5052:DC	O3'	5053:DG	P	1.78
1	AB	5098:DC	O3'	5099:DG	P	1.78
1	AB	5122:DC	O3'	5123:DG	P	1.78
1	AB	5128:DC	O3'	5129:DG	P	1.78
1	AB	5175:DC	O3'	5176:DG	P	1.78
1	AB	5178:DC	O3'	5179:DG	P	1.78
1	AB	5190:DC	O3'	5191:DG	P	1.78
1	AB	5199:DC	O3'	5200:DG	P	1.78
1	AB	5202:DC	O3'	5203:DG	P	1.78
1	AB	5259:DC	O3'	5260:DG	P	1.78

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	5261:DC	O3'	5262:DG	P	1.78
1	AB	5278:DC	O3'	5279:DG	P	1.78
1	AB	5324:DC	O3'	5325:DG	P	1.78
1	AB	5345:DC	O3'	5346:DG	P	1.78
1	AB	5409:DC	O3'	5410:DG	P	1.78
1	AB	5555:DC	O3'	5556:DG	P	1.78
1	AB	5682:DC	O3'	5683:DG	P	1.78
1	AB	5742:DC	O3'	5743:DG	P	1.78
1	AB	5908:DC	O3'	5909:DG	P	1.78
1	AB	5945:DC	O3'	5946:DG	P	1.78
1	AB	6145:DC	O3'	6146:DG	P	1.78
1	AB	6157:DC	O3'	6158:DG	P	1.78
1	AB	6217:DC	O3'	6218:DG	P	1.78
1	AB	6278:DC	O3'	6279:DG	P	1.78
1	AB	6330:DC	O3'	6331:DG	P	1.78
1	AB	6433:DC	O3'	6434:DG	P	1.78
1	AB	6444:DC	O3'	6445:DG	P	1.78
1	AB	6610:DC	O3'	6611:DG	P	1.78
1	AB	6708:DC	O3'	6709:DG	P	1.78
1	AB	6764:DC	O3'	6765:DG	P	1.78
1	AB	6787:DC	O3'	6788:DG	P	1.78
1	AB	6832:DC	O3'	6833:DG	P	1.78
1	AB	6848:DC	O3'	6849:DG	P	1.78
1	AB	6900:DC	O3'	6901:DG	P	1.78
1	AB	6906:DC	O3'	6907:DG	P	1.78
1	AB	6911:DC	O3'	6912:DG	P	1.78
1	AB	6916:DC	O3'	6917:DG	P	1.78
1	AB	6939:DC	O3'	6940:DG	P	1.78
1	AB	6981:DC	O3'	6982:DG	P	1.78
1	AB	6996:DC	O3'	6997:DG	P	1.78
1	AB	6998:DC	O3'	6999:DG	P	1.78
1	AB	7011:DC	O3'	7012:DG	P	1.78
1	AB	7058:DC	O3'	7059:DG	P	1.78
1	AB	7156:DC	O3'	7157:DG	P	1.78
1	AB	7168:DC	O3'	7169:DG	P	1.78
1	AB	7173:DC	O3'	7174:DG	P	1.78
1	AB	7246:DC	O3'	7247:DG	P	1.78
1	AC	17:DC	O3'	18:DG	P	1.78
1	AC	19:DC	O3'	20:DG	P	1.78
1	B1	38:DC	O3'	39:DG	P	1.78
1	B7	8:DC	O3'	9:DG	P	1.78
1	B8	11:DC	O3'	12:DG	P	1.78

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	BA	9:DC	O3'	10:DG	P	1.78
1	BA	15:DC	O3'	16:DG	P	1.78
1	BC	5:DC	O3'	6:DG	P	1.78
1	BC	10:DC	O3'	11:DG	P	1.78
1	BD	9:DC	O3'	10:DG	P	1.78
1	C1	3:DC	O3'	4:DG	P	1.78
1	C3	7:DC	O3'	8:DG	P	1.78
1	C6	32:DC	O3'	33:DG	P	1.78
1	C9	12:DC	O3'	13:DG	P	1.78
1	C9	19:DC	O3'	20:DG	P	1.78
1	CC	27:DC	O3'	28:DG	P	1.78
1	D2	13:DC	O3'	14:DG	P	1.78
1	D2	16:DC	O3'	17:DG	P	1.78
1	D6	26:DC	O3'	27:DG	P	1.78
1	D7	17:DC	O3'	18:DG	P	1.78
1	D8	24:DC	O3'	25:DG	P	1.78
1	D8	39:DC	O3'	40:DG	P	1.78
1	D9	29:DC	O3'	30:DG	P	1.78
1	DD	33:DC	O3'	34:DG	P	1.78
1	DD	45:DC	O3'	46:DG	P	1.78
1	E1	25:DC	O3'	26:DG	P	1.78
1	E3	3:DC	O3'	4:DG	P	1.78
1	E5	6:DC	O3'	7:DG	P	1.78
1	E5	10:DC	O3'	11:DG	P	1.78
1	E6	32:DC	O3'	33:DG	P	1.78
1	E9	21:DC	O3'	22:DG	P	1.78
1	E9	40:DC	O3'	41:DG	P	1.78
1	EA	19:DC	O3'	20:DG	P	1.78
1	ED	8:DC	O3'	9:DG	P	1.78
1	F1	17:DC	O3'	18:DG	P	1.78
1	F2	23:DC	O3'	24:DG	P	1.78
1	FC	6:DC	O3'	7:DG	P	1.78
1	FD	43:DC	O3'	44:DG	P	1.78
1	G1	15:DC	O3'	16:DG	P	1.78
1	GC	11:DC	O3'	12:DG	P	1.78
1	GC	13:DC	O3'	14:DG	P	1.78
1	H5	2:DC	O3'	3:DG	P	1.78
1	H6	28:DC	O3'	29:DG	P	1.78
1	H7	23:DC	O3'	24:DG	P	1.78
1	H9	15:DC	O3'	16:DG	P	1.78
1	I2	40:DC	O3'	41:DG	P	1.78
1	I3	28:DC	O3'	29:DG	P	1.78

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	I3	56:DC	O3'	57:DG	P	1.78
1	I6	4:DC	O3'	5:DG	P	1.78
1	I7	7:DC	O3'	8:DG	P	1.78
1	I7	10:DC	O3'	11:DG	P	1.78
1	I7	32:DC	O3'	33:DG	P	1.78
1	I8	31:DC	O3'	32:DG	P	1.78
1	IC	17:DC	O3'	18:DG	P	1.78
1	ID	31:DC	O3'	32:DG	P	1.78
1	J1	3:DC	O3'	4:DG	P	1.78
1	J1	23:DC	O3'	24:DG	P	1.78
1	J1	25:DC	O3'	26:DG	P	1.78
1	J2	11:DC	O3'	12:DG	P	1.78
1	J2	25:DC	O3'	26:DG	P	1.78
1	J5	20:DC	O3'	21:DG	P	1.78
1	J5	32:DC	O3'	33:DG	P	1.78
1	J8	41:DC	O3'	42:DG	P	1.78
1	J8	43:DC	O3'	44:DG	P	1.78
1	J9	14:DC	O3'	15:DG	P	1.78
1	J9	17:DC	O3'	18:DG	P	1.78
1	J9	19:DC	O3'	20:DG	P	1.78
1	JD	32:DC	O3'	33:DG	P	1.78
1	K2	19:DC	O3'	20:DG	P	1.78
1	K7	28:DC	O3'	29:DG	P	1.78
1	K8	7:DC	O3'	8:DG	P	1.78
1	K9	24:DC	O3'	25:DG	P	1.78
1	KC	20:DC	O3'	21:DG	P	1.78
1	L2	35:DC	O3'	36:DG	P	1.78
1	L8	24:DC	O3'	25:DG	P	1.78
1	L9	13:DC	O3'	14:DG	P	1.78
1	LA	11:DC	O3'	12:DG	P	1.78
1	M2	7:DC	O3'	8:DG	P	1.78
1	M6	18:DC	O3'	19:DG	P	1.78
1	MA	39:DC	O3'	40:DG	P	1.78
1	MC	3:DC	O3'	4:DG	P	1.78
1	NA	6:DC	O3'	7:DG	P	1.78
1	NA	16:DC	O3'	17:DG	P	1.78
1	NC	25:DC	O3'	26:DG	P	1.78
1	O2	17:DC	O3'	18:DG	P	1.78
1	O5	26:DC	O3'	27:DG	P	1.78
1	O5	48:DC	O3'	49:DG	P	1.78
1	O6	9:DC	O3'	10:DG	P	1.78
1	O7	11:DC	O3'	12:DG	P	1.78

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	O8	50:DC	O3'	51:DG	P	1.78
1	OD	50:DC	O3'	51:DG	P	1.78
1	P2	20:DC	O3'	21:DG	P	1.78
1	P5	2:DC	O3'	3:DG	P	1.78
1	PA	35:DC	O3'	36:DG	P	1.78
1	PA	37:DC	O3'	38:DG	P	1.78
1	PC	6:DC	O3'	7:DG	P	1.78
1	Q5	37:DC	O3'	38:DG	P	1.78
1	Q7	6:DC	O3'	7:DG	P	1.78
1	Q7	12:DC	O3'	13:DG	P	1.78
1	Q7	24:DC	O3'	25:DG	P	1.78
1	QC	18:DC	O3'	19:DG	P	1.78
1	R3	12:DC	O3'	13:DG	P	1.78
1	R5	19:DC	O3'	20:DG	P	1.78
1	RA	25:DC	O3'	26:DG	P	1.78
1	S2	11:DC	O3'	12:DG	P	1.78
1	S3	6:DC	O3'	7:DG	P	1.78
1	S5	8:DC	O3'	9:DG	P	1.78
1	S7	5:DC	O3'	6:DG	P	1.78
1	S8	33:DC	O3'	34:DG	P	1.78
1	S9	21:DC	O3'	22:DG	P	1.78
1	SA	7:DC	O3'	8:DG	P	1.78
1	SC	18:DC	O3'	19:DG	P	1.78
1	SD	5:DC	O3'	6:DG	P	1.78
1	T2	21:DC	O3'	22:DG	P	1.78
1	T3	13:DC	O3'	14:DG	P	1.78
1	T3	22:DC	O3'	23:DG	P	1.78
1	T3	43:DC	O3'	44:DG	P	1.78
1	T7	1:DC	O3'	2:DG	P	1.78
1	T7	20:DC	O3'	21:DG	P	1.78
1	TA	13:DC	O3'	14:DG	P	1.78
1	TA	17:DC	O3'	18:DG	P	1.78
1	TA	28:DC	O3'	29:DG	P	1.78
1	TD	9:DC	O3'	10:DG	P	1.78
1	U8	13:DC	O3'	14:DG	P	1.78
1	UA	10:DC	O3'	11:DG	P	1.78
1	UD	18:DC	O3'	19:DG	P	1.78
1	V2	6:DC	O3'	7:DG	P	1.78
1	V8	21:DC	O3'	22:DG	P	1.78
1	W7	18:DC	O3'	19:DG	P	1.78
1	W7	22:DC	O3'	23:DG	P	1.78
1	X9	2:DC	O3'	3:DG	P	1.78

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A1	22:DA	O3'	23:DG	P	1.77
1	A2	2:DA	O3'	3:DG	P	1.77
1	A2	6:DA	O3'	7:DG	P	1.77
1	A4	7:DA	O3'	8:DG	P	1.77
1	A4	9:DA	O3'	10:DG	P	1.77
1	A5	18:DA	O3'	19:DG	P	1.77
1	A5	22:DA	O3'	23:DG	P	1.77
1	A5	37:DA	O3'	38:DG	P	1.77
1	A7	7:DA	O3'	8:DG	P	1.77
1	A7	13:DT	O3'	14:DG	P	1.77
1	A8	6:DA	O3'	7:DG	P	1.77
1	AA	22:DA	O3'	23:DG	P	1.77
1	AA	25:DA	O3'	26:DG	P	1.77
1	AB	125:DA	O3'	126:DG	P	1.77
1	AB	179:DA	O3'	180:DG	P	1.77
1	AB	219:DA	O3'	220:DG	P	1.77
1	AB	222:DT	O3'	223:DG	P	1.77
1	AB	227:DA	O3'	228:DG	P	1.77
1	AB	242:DA	O3'	243:DG	P	1.77
1	AB	335:DA	O3'	336:DG	P	1.77
1	AB	358:DA	O3'	359:DG	P	1.77
1	AB	404:DT	O3'	405:DG	P	1.77
1	AB	406:DA	O3'	407:DG	P	1.77
1	AB	421:DA	O3'	422:DG	P	1.77
1	AB	425:DT	O3'	426:DG	P	1.77
1	AB	436:DA	O3'	437:DG	P	1.77
1	AB	451:DA	O3'	452:DG	P	1.77
1	AB	475:DA	O3'	476:DG	P	1.77
1	AB	547:DA	O3'	548:DG	P	1.77
1	AB	580:DA	O3'	581:DG	P	1.77
1	AB	583:DA	O3'	584:DG	P	1.77
1	AB	589:DA	O3'	590:DG	P	1.77
1	AB	613:DA	O3'	614:DG	P	1.77
1	AB	621:DA	O3'	622:DG	P	1.77
1	AB	633:DA	O3'	634:DG	P	1.77
1	AB	637:DA	O3'	638:DG	P	1.77
1	AB	665:DT	O3'	666:DG	P	1.77
1	AB	674:DA	O3'	675:DG	P	1.77
1	AB	725:DA	O3'	726:DG	P	1.77
1	AB	734:DT	O3'	735:DG	P	1.77
1	AB	759:DA	O3'	760:DG	P	1.77
1	AB	790:DA	O3'	791:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	815:DA	O3'	816:DG	P	1.77
1	AB	937:DA	O3'	938:DG	P	1.77
1	AB	941:DA	O3'	942:DG	P	1.77
1	AB	956:DT	O3'	957:DG	P	1.77
1	AB	988:DA	O3'	989:DG	P	1.77
1	AB	1006:DA	O3'	1007:DG	P	1.77
1	AB	1015:DT	O3'	1016:DG	P	1.77
1	AB	1025:DT	O3'	1026:DG	P	1.77
1	AB	1049:DT	O3'	1050:DG	P	1.77
1	AB	1130:DT	O3'	1131:DG	P	1.77
1	AB	1136:DT	O3'	1137:DG	P	1.77
1	AB	1187:DA	O3'	1188:DG	P	1.77
1	AB	1310:DT	O3'	1311:DG	P	1.77
1	AB	1314:DT	O3'	1315:DG	P	1.77
1	AB	1316:DT	O3'	1317:DG	P	1.77
1	AB	1417:DA	O3'	1418:DG	P	1.77
1	AB	1518:DA	O3'	1519:DG	P	1.77
1	AB	1530:DA	O3'	1531:DG	P	1.77
1	AB	1534:DA	O3'	1535:DG	P	1.77
1	AB	1558:DT	O3'	1559:DG	P	1.77
1	AB	1647:DA	O3'	1648:DG	P	1.77
1	AB	1701:DA	O3'	1702:DG	P	1.77
1	AB	1796:DA	O3'	1797:DG	P	1.77
1	AB	1807:DA	O3'	1808:DG	P	1.77
1	AB	1818:DA	O3'	1819:DG	P	1.77
1	AB	1823:DT	O3'	1824:DG	P	1.77
1	AB	1828:DA	O3'	1829:DG	P	1.77
1	AB	1834:DA	O3'	1835:DG	P	1.77
1	AB	1847:DA	O3'	1848:DG	P	1.77
1	AB	1881:DA	O3'	1882:DG	P	1.77
1	AB	1901:DA	O3'	1902:DG	P	1.77
1	AB	1908:DA	O3'	1909:DG	P	1.77
1	AB	1935:DA	O3'	1936:DG	P	1.77
1	AB	1948:DA	O3'	1949:DG	P	1.77
1	AB	1961:DT	O3'	1962:DG	P	1.77
1	AB	2021:DT	O3'	2022:DG	P	1.77
1	AB	2030:DT	O3'	2031:DG	P	1.77
1	AB	2032:DA	O3'	2033:DG	P	1.77
1	AB	2076:DA	O3'	2077:DG	P	1.77
1	AB	2080:DA	O3'	2081:DG	P	1.77
1	AB	2117:DA	O3'	2118:DG	P	1.77
1	AB	2121:DT	O3'	2122:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	2143:DA	O3'	2144:DG	P	1.77
1	AB	2167:DA	O3'	2168:DG	P	1.77
1	AB	2183:DA	O3'	2184:DG	P	1.77
1	AB	2192:DT	O3'	2193:DG	P	1.77
1	AB	2336:DT	O3'	2337:DG	P	1.77
1	AB	2338:DA	O3'	2339:DG	P	1.77
1	AB	2359:DA	O3'	2360:DG	P	1.77
1	AB	2482:DA	O3'	2483:DG	P	1.77
1	AB	2485:DA	O3'	2486:DG	P	1.77
1	AB	2515:DA	O3'	2516:DG	P	1.77
1	AB	2587:DA	O3'	2588:DG	P	1.77
1	AB	2593:DA	O3'	2594:DG	P	1.77
1	AB	2602:DA	O3'	2603:DG	P	1.77
1	AB	2606:DA	O3'	2607:DG	P	1.77
1	AB	2614:DA	O3'	2615:DG	P	1.77
1	AB	2667:DA	O3'	2668:DG	P	1.77
1	AB	2678:DT	O3'	2679:DG	P	1.77
1	AB	2686:DA	O3'	2687:DG	P	1.77
1	AB	2695:DA	O3'	2696:DG	P	1.77
1	AB	2725:DA	O3'	2726:DG	P	1.77
1	AB	2817:DT	O3'	2818:DG	P	1.77
1	AB	2850:DT	O3'	2851:DG	P	1.77
1	AB	2855:DA	O3'	2856:DG	P	1.77
1	AB	2909:DA	O3'	2910:DG	P	1.77
1	AB	2973:DT	O3'	2974:DG	P	1.77
1	AB	3021:DT	O3'	3022:DG	P	1.77
1	AB	3042:DA	O3'	3043:DG	P	1.77
1	AB	3122:DA	O3'	3123:DG	P	1.77
1	AB	3129:DT	O3'	3130:DG	P	1.77
1	AB	3162:DT	O3'	3163:DG	P	1.77
1	AB	3288:DT	O3'	3289:DG	P	1.77
1	AB	3306:DA	O3'	3307:DG	P	1.77
1	AB	3313:DA	O3'	3314:DG	P	1.77
1	AB	3324:DA	O3'	3325:DG	P	1.77
1	AB	3333:DA	O3'	3334:DG	P	1.77
1	AB	3380:DA	O3'	3381:DG	P	1.77
1	AB	3441:DT	O3'	3442:DG	P	1.77
1	AB	3455:DA	O3'	3456:DG	P	1.77
1	AB	3468:DT	O3'	3469:DG	P	1.77
1	AB	3471:DA	O3'	3472:DG	P	1.77
1	AB	3486:DT	O3'	3487:DG	P	1.77
1	AB	3561:DA	O3'	3562:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	3575:DA	O3'	3576:DG	P	1.77
1	AB	3627:DA	O3'	3628:DG	P	1.77
1	AB	3648:DT	O3'	3649:DG	P	1.77
1	AB	3690:DT	O3'	3691:DG	P	1.77
1	AB	3696:DT	O3'	3697:DG	P	1.77
1	AB	3719:DA	O3'	3720:DG	P	1.77
1	AB	3754:DA	O3'	3755:DG	P	1.77
1	AB	3836:DA	O3'	3837:DG	P	1.77
1	AB	3841:DA	O3'	3842:DG	P	1.77
1	AB	3846:DT	O3'	3847:DG	P	1.77
1	AB	3865:DA	O3'	3866:DG	P	1.77
1	AB	3899:DA	O3'	3900:DG	P	1.77
1	AB	3944:DA	O3'	3945:DG	P	1.77
1	AB	3992:DT	O3'	3993:DG	P	1.77
1	AB	3997:DA	O3'	3998:DG	P	1.77
1	AB	4008:DT	O3'	4009:DG	P	1.77
1	AB	4024:DA	O3'	4025:DG	P	1.77
1	AB	4047:DA	O3'	4048:DG	P	1.77
1	AB	4056:DA	O3'	4057:DG	P	1.77
1	AB	4070:DA	O3'	4071:DG	P	1.77
1	AB	4082:DA	O3'	4083:DG	P	1.77
1	AB	4109:DA	O3'	4110:DG	P	1.77
1	AB	4113:DT	O3'	4114:DG	P	1.77
1	AB	4126:DT	O3'	4127:DG	P	1.77
1	AB	4130:DA	O3'	4131:DG	P	1.77
1	AB	4138:DA	O3'	4139:DG	P	1.77
1	AB	4225:DA	O3'	4226:DG	P	1.77
1	AB	4238:DA	O3'	4239:DG	P	1.77
1	AB	4292:DA	O3'	4293:DG	P	1.77
1	AB	4354:DA	O3'	4355:DG	P	1.77
1	AB	4419:DA	O3'	4420:DG	P	1.77
1	AB	4427:DT	O3'	4428:DG	P	1.77
1	AB	4453:DA	O3'	4454:DG	P	1.77
1	AB	4479:DA	O3'	4480:DG	P	1.77
1	AB	4507:DA	O3'	4508:DG	P	1.77
1	AB	4513:DA	O3'	4514:DG	P	1.77
1	AB	4522:DA	O3'	4523:DG	P	1.77
1	AB	4531:DA	O3'	4532:DG	P	1.77
1	AB	4534:DT	O3'	4535:DG	P	1.77
1	AB	4537:DT	O3'	4538:DG	P	1.77
1	AB	4549:DT	O3'	4550:DG	P	1.77
1	AB	4660:DA	O3'	4661:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	4662:DT	O3'	4663:DG	P	1.77
1	AB	4664:DA	O3'	4665:DG	P	1.77
1	AB	4684:DA	O3'	4685:DG	P	1.77
1	AB	4688:DA	O3'	4689:DG	P	1.77
1	AB	4700:DA	O3'	4701:DG	P	1.77
1	AB	4756:DA	O3'	4757:DG	P	1.77
1	AB	4783:DA	O3'	4784:DG	P	1.77
1	AB	4831:DA	O3'	4832:DG	P	1.77
1	AB	4853:DA	O3'	4854:DG	P	1.77
1	AB	4863:DT	O3'	4864:DG	P	1.77
1	AB	4927:DA	O3'	4928:DG	P	1.77
1	AB	4946:DA	O3'	4947:DG	P	1.77
1	AB	4992:DA	O3'	4993:DG	P	1.77
1	AB	5000:DA	O3'	5001:DG	P	1.77
1	AB	5041:DA	O3'	5042:DG	P	1.77
1	AB	5067:DA	O3'	5068:DG	P	1.77
1	AB	5082:DA	O3'	5083:DG	P	1.77
1	AB	5233:DT	O3'	5234:DG	P	1.77
1	AB	5237:DA	O3'	5238:DG	P	1.77
1	AB	5247:DA	O3'	5248:DG	P	1.77
1	AB	5300:DA	O3'	5301:DG	P	1.77
1	AB	5303:DT	O3'	5304:DG	P	1.77
1	AB	5387:DT	O3'	5388:DG	P	1.77
1	AB	5520:DA	O3'	5521:DG	P	1.77
1	AB	5547:DA	O3'	5548:DG	P	1.77
1	AB	5586:DT	O3'	5587:DG	P	1.77
1	AB	5693:DA	O3'	5694:DG	P	1.77
1	AB	5709:DA	O3'	5710:DG	P	1.77
1	AB	5717:DA	O3'	5718:DG	P	1.77
1	AB	5762:DA	O3'	5763:DG	P	1.77
1	AB	5781:DT	O3'	5782:DG	P	1.77
1	AB	5859:DA	O3'	5860:DG	P	1.77
1	AB	5883:DA	O3'	5884:DG	P	1.77
1	AB	5986:DA	O3'	5987:DG	P	1.77
1	AB	6000:DA	O3'	6001:DG	P	1.77
1	AB	6029:DA	O3'	6030:DG	P	1.77
1	AB	6056:DA	O3'	6057:DG	P	1.77
1	AB	6071:DT	O3'	6072:DG	P	1.77
1	AB	6086:DA	O3'	6087:DG	P	1.77
1	AB	6089:DA	O3'	6090:DG	P	1.77
1	AB	6098:DA	O3'	6099:DG	P	1.77
1	AB	6122:DT	O3'	6123:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	6125:DA	O3'	6126:DG	P	1.77
1	AB	6179:DA	O3'	6180:DG	P	1.77
1	AB	6238:DA	O3'	6239:DG	P	1.77
1	AB	6242:DA	O3'	6243:DG	P	1.77
1	AB	6249:DA	O3'	6250:DG	P	1.77
1	AB	6303:DT	O3'	6304:DG	P	1.77
1	AB	6305:DA	O3'	6306:DG	P	1.77
1	AB	6339:DA	O3'	6340:DG	P	1.77
1	AB	6399:DT	O3'	6400:DG	P	1.77
1	AB	6405:DA	O3'	6406:DG	P	1.77
1	AB	6446:DA	O3'	6447:DG	P	1.77
1	AB	6510:DA	O3'	6511:DG	P	1.77
1	AB	6567:DT	O3'	6568:DG	P	1.77
1	AB	6576:DA	O3'	6577:DG	P	1.77
1	AB	6594:DA	O3'	6595:DG	P	1.77
1	AB	6651:DA	O3'	6652:DG	P	1.77
1	AB	6664:DT	O3'	6665:DG	P	1.77
1	AB	6671:DA	O3'	6672:DG	P	1.77
1	AB	6716:DT	O3'	6717:DG	P	1.77
1	AB	6727:DA	O3'	6728:DG	P	1.77
1	AB	6733:DA	O3'	6734:DG	P	1.77
1	AB	6751:DA	O3'	6752:DG	P	1.77
1	AB	6799:DA	O3'	6800:DG	P	1.77
1	AB	6812:DT	O3'	6813:DG	P	1.77
1	AB	6815:DA	O3'	6816:DG	P	1.77
1	AB	6820:DA	O3'	6821:DG	P	1.77
1	AB	6869:DA	O3'	6870:DG	P	1.77
1	AB	6872:DT	O3'	6873:DG	P	1.77
1	AB	6877:DA	O3'	6878:DG	P	1.77
1	AB	6932:DA	O3'	6933:DG	P	1.77
1	AB	6962:DA	O3'	6963:DG	P	1.77
1	AB	7037:DA	O3'	7038:DG	P	1.77
1	AB	7049:DT	O3'	7050:DG	P	1.77
1	AB	7064:DA	O3'	7065:DG	P	1.77
1	AB	7068:DT	O3'	7069:DG	P	1.77
1	AB	7080:DA	O3'	7081:DG	P	1.77
1	AB	7194:DA	O3'	7195:DG	P	1.77
1	AB	7213:DA	O3'	7214:DG	P	1.77
1	AB	7234:DA	O3'	7235:DG	P	1.77
1	AB	7240:DA	O3'	7241:DG	P	1.77
1	AD	10:DA	O3'	11:DG	P	1.77
1	AD	13:DA	O3'	14:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AD	21:DA	O3'	22:DG	P	1.77
1	AD	25:DA	O3'	26:DG	P	1.77
1	AD	27:DA	O3'	28:DG	P	1.77
1	B1	6:DA	O3'	7:DG	P	1.77
1	B1	26:DA	O3'	27:DG	P	1.77
1	B2	19:DA	O3'	20:DG	P	1.77
1	B3	5:DA	O3'	6:DG	P	1.77
1	B3	11:DA	O3'	12:DG	P	1.77
1	B4	15:DA	O3'	16:DG	P	1.77
1	B4	17:DA	O3'	18:DG	P	1.77
1	B5	32:DA	O3'	33:DG	P	1.77
1	B6	13:DA	O3'	14:DG	P	1.77
1	B7	12:DA	O3'	13:DG	P	1.77
1	B7	20:DA	O3'	21:DG	P	1.77
1	B8	14:DA	O3'	15:DG	P	1.77
1	B8	25:DA	O3'	26:DG	P	1.77
1	B9	49:DA	O3'	50:DG	P	1.77
1	BA	29:DT	O3'	30:DG	P	1.77
1	BA	35:DT	O3'	36:DG	P	1.77
1	BC	7:DA	O3'	8:DG	P	1.77
1	BC	21:DA	O3'	22:DG	P	1.77
1	BC	26:DA	O3'	27:DG	P	1.77
1	BC	38:DA	O3'	39:DG	P	1.77
1	C2	19:DA	O3'	20:DG	P	1.77
1	C3	17:DA	O3'	18:DG	P	1.77
1	C5	15:DA	O3'	16:DG	P	1.77
1	C5	31:DA	O3'	32:DG	P	1.77
1	C5	39:DA	O3'	40:DG	P	1.77
1	C6	24:DA	O3'	25:DG	P	1.77
1	C6	42:DA	O3'	43:DG	P	1.77
1	C8	3:DA	O3'	4:DG	P	1.77
1	C8	41:DA	O3'	42:DG	P	1.77
1	CA	12:DA	O3'	13:DG	P	1.77
1	CC	6:DA	O3'	7:DG	P	1.77
1	CD	2:DA	O3'	3:DG	P	1.77
1	CD	4:DA	O3'	5:DG	P	1.77
1	CD	18:DT	O3'	19:DG	P	1.77
1	D1	30:DA	O3'	31:DG	P	1.77
1	D2	10:DA	O3'	11:DG	P	1.77
1	D3	19:DA	O3'	20:DG	P	1.77
1	D3	25:DA	O3'	26:DG	P	1.77
1	D3	27:DA	O3'	28:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D3	31:DA	O3'	32:DG	P	1.77
1	D6	2:DA	O3'	3:DG	P	1.77
1	D6	32:DA	O3'	33:DG	P	1.77
1	D7	3:DA	O3'	4:DG	P	1.77
1	D8	32:DA	O3'	33:DG	P	1.77
1	D8	34:DA	O3'	35:DG	P	1.77
1	D9	16:DA	O3'	17:DG	P	1.77
1	D9	25:DA	O3'	26:DG	P	1.77
1	DA	8:DA	O3'	9:DG	P	1.77
1	DA	12:DA	O3'	13:DG	P	1.77
1	DA	21:DA	O3'	22:DG	P	1.77
1	DC	15:DT	O3'	16:DG	P	1.77
1	DC	19:DA	O3'	20:DG	P	1.77
1	DD	24:DA	O3'	25:DG	P	1.77
1	E1	10:DA	O3'	11:DG	P	1.77
1	E2	3:DA	O3'	4:DG	P	1.77
1	E2	27:DA	O3'	28:DG	P	1.77
1	E2	29:DA	O3'	30:DG	P	1.77
1	E2	33:DA	O3'	34:DG	P	1.77
1	E5	15:DA	O3'	16:DG	P	1.77
1	E6	3:DA	O3'	4:DG	P	1.77
1	E7	19:DA	O3'	20:DG	P	1.77
1	E8	36:DA	O3'	37:DG	P	1.77
1	E9	12:DA	O3'	13:DG	P	1.77
1	E9	42:DA	O3'	43:DG	P	1.77
1	EC	13:DT	O3'	14:DG	P	1.77
1	EC	20:DT	O3'	21:DG	P	1.77
1	EC	22:DA	O3'	23:DG	P	1.77
1	ED	20:DA	O3'	21:DG	P	1.77
1	ED	28:DA	O3'	29:DG	P	1.77
1	F1	3:DA	O3'	4:DG	P	1.77
1	F2	26:DA	O3'	27:DG	P	1.77
1	F3	12:DA	O3'	13:DG	P	1.77
1	F3	22:DA	O3'	23:DG	P	1.77
1	F5	2:DA	O3'	3:DG	P	1.77
1	F6	8:DA	O3'	9:DG	P	1.77
1	F7	23:DA	O3'	24:DG	P	1.77
1	F8	17:DA	O3'	18:DG	P	1.77
1	F9	18:DT	O3'	19:DG	P	1.77
1	FA	26:DA	O3'	27:DG	P	1.77
1	FA	30:DT	O3'	31:DG	P	1.77
1	FC	10:DA	O3'	11:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	FC	13:DA	O3'	14:DG	P	1.77
1	FC	16:DA	O3'	17:DG	P	1.77
1	FD	25:DA	O3'	26:DG	P	1.77
1	FD	30:DA	O3'	31:DG	P	1.77
1	G2	9:DA	O3'	10:DG	P	1.77
1	G3	3:DT	O3'	4:DG	P	1.77
1	G3	27:DT	O3'	28:DG	P	1.77
1	G6	6:DA	O3'	7:DG	P	1.77
1	G6	8:DA	O3'	9:DG	P	1.77
1	G8	22:DA	O3'	23:DG	P	1.77
1	G9	7:DT	O3'	8:DG	P	1.77
1	G9	9:DA	O3'	10:DG	P	1.77
1	GA	7:DA	O3'	8:DG	P	1.77
1	GA	11:DT	O3'	12:DG	P	1.77
1	GA	18:DA	O3'	19:DG	P	1.77
1	GD	11:DA	O3'	12:DG	P	1.77
1	GD	15:DA	O3'	16:DG	P	1.77
1	H1	11:DA	O3'	12:DG	P	1.77
1	H3	23:DA	O3'	24:DG	P	1.77
1	H3	25:DA	O3'	26:DG	P	1.77
1	H3	41:DA	O3'	42:DG	P	1.77
1	H5	32:DA	O3'	33:DG	P	1.77
1	H5	39:DA	O3'	40:DG	P	1.77
1	H6	4:DA	O3'	5:DG	P	1.77
1	H6	6:DA	O3'	7:DG	P	1.77
1	H7	12:DA	O3'	13:DG	P	1.77
1	H7	19:DA	O3'	20:DG	P	1.77
1	H8	14:DA	O3'	15:DG	P	1.77
1	H9	26:DA	O3'	27:DG	P	1.77
1	HA	10:DA	O3'	11:DG	P	1.77
1	HA	19:DA	O3'	20:DG	P	1.77
1	HA	23:DA	O3'	24:DG	P	1.77
1	HC	24:DA	O3'	25:DG	P	1.77
1	HD	21:DA	O3'	22:DG	P	1.77
1	I1	21:DA	O3'	22:DG	P	1.77
1	I2	14:DA	O3'	15:DG	P	1.77
1	I2	20:DA	O3'	21:DG	P	1.77
1	I2	44:DT	O3'	45:DG	P	1.77
1	I3	1:DA	O3'	2:DG	P	1.77
1	I3	36:DA	O3'	37:DG	P	1.77
1	I3	44:DA	O3'	45:DG	P	1.77
1	I5	10:DA	O3'	11:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	I5	13:DA	O3'	14:DG	P	1.77
1	I5	29:DA	O3'	30:DG	P	1.77
1	I5	31:DA	O3'	32:DG	P	1.77
1	I7	23:DA	O3'	24:DG	P	1.77
1	I8	24:DA	O3'	25:DG	P	1.77
1	I9	9:DA	O3'	10:DG	P	1.77
1	I9	28:DA	O3'	29:DG	P	1.77
1	IA	5:DA	O3'	6:DG	P	1.77
1	ID	7:DT	O3'	8:DG	P	1.77
1	J3	8:DT	O3'	9:DG	P	1.77
1	J3	32:DA	O3'	33:DG	P	1.77
1	J5	3:DA	O3'	4:DG	P	1.77
1	J5	5:DA	O3'	6:DG	P	1.77
1	J5	13:DA	O3'	14:DG	P	1.77
1	J5	26:DA	O3'	27:DG	P	1.77
1	J6	39:DA	O3'	40:DG	P	1.77
1	J7	33:DA	O3'	34:DG	P	1.77
1	J8	1:DA	O3'	2:DG	P	1.77
1	J8	32:DT	O3'	33:DG	P	1.77
1	J9	9:DA	O3'	10:DG	P	1.77
1	JA	3:DA	O3'	4:DG	P	1.77
1	JA	5:DA	O3'	6:DG	P	1.77
1	JA	11:DT	O3'	12:DG	P	1.77
1	JD	9:DA	O3'	10:DG	P	1.77
1	K1	9:DT	O3'	10:DG	P	1.77
1	K1	25:DA	O3'	26:DG	P	1.77
1	K1	27:DA	O3'	28:DG	P	1.77
1	K2	8:DA	O3'	9:DG	P	1.77
1	K5	2:DA	O3'	3:DG	P	1.77
1	K5	24:DA	O3'	25:DG	P	1.77
1	K5	35:DA	O3'	36:DG	P	1.77
1	K5	38:DT	O3'	39:DG	P	1.77
1	K5	42:DA	O3'	43:DG	P	1.77
1	K6	12:DA	O3'	13:DG	P	1.77
1	K7	31:DA	O3'	32:DG	P	1.77
1	K8	3:DA	O3'	4:DG	P	1.77
1	K9	8:DA	O3'	9:DG	P	1.77
1	KA	10:DA	O3'	11:DG	P	1.77
1	KA	32:DA	O3'	33:DG	P	1.77
1	KC	10:DA	O3'	11:DG	P	1.77
1	KD	15:DA	O3'	16:DG	P	1.77
1	L1	32:DA	O3'	33:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	L1	44:DA	O3'	45:DG	P	1.77
1	L1	52:DA	O3'	53:DG	P	1.77
1	L2	15:DT	O3'	16:DG	P	1.77
1	L2	59:DA	O3'	60:DG	P	1.77
1	L6	22:DT	O3'	23:DG	P	1.77
1	L7	9:DA	O3'	10:DG	P	1.77
1	L7	37:DA	O3'	38:DG	P	1.77
1	L8	10:DA	O3'	11:DG	P	1.77
1	L8	16:DA	O3'	17:DG	P	1.77
1	LC	15:DA	O3'	16:DG	P	1.77
1	LD	5:DT	O3'	6:DG	P	1.77
1	M2	15:DA	O3'	16:DG	P	1.77
1	M3	12:DA	O3'	13:DG	P	1.77
1	M3	33:DA	O3'	34:DG	P	1.77
1	M5	5:DA	O3'	6:DG	P	1.77
1	M5	22:DA	O3'	23:DG	P	1.77
1	M5	27:DA	O3'	28:DG	P	1.77
1	M6	12:DA	O3'	13:DG	P	1.77
1	M7	15:DA	O3'	16:DG	P	1.77
1	M9	4:DA	O3'	5:DG	P	1.77
1	MA	8:DT	O3'	9:DG	P	1.77
1	MA	19:DA	O3'	20:DG	P	1.77
1	MA	29:DA	O3'	30:DG	P	1.77
1	MA	42:DA	O3'	43:DG	P	1.77
1	MD	54:DA	O3'	55:DG	P	1.77
1	N2	2:DA	O3'	3:DG	P	1.77
1	N2	6:DA	O3'	7:DG	P	1.77
1	N2	21:DA	O3'	22:DG	P	1.77
1	N3	1:DA	O3'	2:DG	P	1.77
1	N3	3:DA	O3'	4:DG	P	1.77
1	N3	11:DA	O3'	12:DG	P	1.77
1	N5	6:DA	O3'	7:DG	P	1.77
1	N6	20:DA	O3'	21:DG	P	1.77
1	N6	48:DA	O3'	49:DG	P	1.77
1	N7	2:DA	O3'	3:DG	P	1.77
1	N7	4:DA	O3'	5:DG	P	1.77
1	N7	21:DA	O3'	22:DG	P	1.77
1	N8	1:DA	O3'	2:DG	P	1.77
1	N8	18:DT	O3'	19:DG	P	1.77
1	N9	30:DA	O3'	31:DG	P	1.77
1	N9	40:DT	O3'	41:DG	P	1.77
1	N9	42:DT	O3'	43:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	N9	44:DA	O3'	45:DG	P	1.77
1	NA	12:DA	O3'	13:DG	P	1.77
1	NC	5:DA	O3'	6:DG	P	1.77
1	NC	7:DA	O3'	8:DG	P	1.77
1	NC	9:DA	O3'	10:DG	P	1.77
1	ND	2:DA	O3'	3:DG	P	1.77
1	ND	9:DA	O3'	10:DG	P	1.77
1	ND	19:DA	O3'	20:DG	P	1.77
1	O2	27:DA	O3'	28:DG	P	1.77
1	O2	41:DA	O3'	42:DG	P	1.77
1	O2	44:DA	O3'	45:DG	P	1.77
1	O3	9:DA	O3'	10:DG	P	1.77
1	O5	31:DA	O3'	32:DG	P	1.77
1	O6	4:DA	O3'	5:DG	P	1.77
1	O7	3:DA	O3'	4:DG	P	1.77
1	O7	35:DA	O3'	36:DG	P	1.77
1	O7	41:DA	O3'	42:DG	P	1.77
1	O7	46:DA	O3'	47:DG	P	1.77
1	O8	13:DA	O3'	14:DG	P	1.77
1	O8	35:DA	O3'	36:DG	P	1.77
1	OA	1:DA	O3'	2:DG	P	1.77
1	OD	10:DA	O3'	11:DG	P	1.77
1	P2	8:DA	O3'	9:DG	P	1.77
1	P3	36:DA	O3'	37:DG	P	1.77
1	P5	8:DA	O3'	9:DG	P	1.77
1	P5	14:DA	O3'	15:DG	P	1.77
1	P6	8:DA	O3'	9:DG	P	1.77
1	P7	11:DA	O3'	12:DG	P	1.77
1	P9	18:DT	O3'	19:DG	P	1.77
1	PA	2:DA	O3'	3:DG	P	1.77
1	PA	6:DA	O3'	7:DG	P	1.77
1	PC	25:DA	O3'	26:DG	P	1.77
1	PD	4:DA	O3'	5:DG	P	1.77
1	PD	16:DA	O3'	17:DG	P	1.77
1	Q8	23:DT	O3'	24:DG	P	1.77
1	Q8	25:DA	O3'	26:DG	P	1.77
1	Q9	1:DA	O3'	2:DG	P	1.77
1	QA	8:DA	O3'	9:DG	P	1.77
1	QA	19:DA	O3'	20:DG	P	1.77
1	QC	9:DT	O3'	10:DG	P	1.77
1	QC	20:DA	O3'	21:DG	P	1.77
1	R2	3:DA	O3'	4:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	R2	10:DA	O3'	11:DG	P	1.77
1	R2	18:DA	O3'	19:DG	P	1.77
1	R7	1:DA	O3'	2:DG	P	1.77
1	R7	6:DA	O3'	7:DG	P	1.77
1	R7	24:DA	O3'	25:DG	P	1.77
1	R8	39:DA	O3'	40:DG	P	1.77
1	R9	22:DA	O3'	23:DG	P	1.77
1	RA	8:DA	O3'	9:DG	P	1.77
1	RC	9:DA	O3'	10:DG	P	1.77
1	S2	3:DA	O3'	4:DG	P	1.77
1	S2	24:DA	O3'	25:DG	P	1.77
1	S3	23:DA	O3'	24:DG	P	1.77
1	S3	25:DA	O3'	26:DG	P	1.77
1	S5	3:DA	O3'	4:DG	P	1.77
1	S5	11:DA	O3'	12:DG	P	1.77
1	S8	23:DA	O3'	24:DG	P	1.77
1	S8	28:DA	O3'	29:DG	P	1.77
1	S9	2:DA	O3'	3:DG	P	1.77
1	S9	4:DA	O3'	5:DG	P	1.77
1	S9	19:DA	O3'	20:DG	P	1.77
1	T2	9:DA	O3'	10:DG	P	1.77
1	T2	12:DA	O3'	13:DG	P	1.77
1	T3	30:DA	O3'	31:DG	P	1.77
1	T3	34:DT	O3'	35:DG	P	1.77
1	T7	33:DA	O3'	34:DG	P	1.77
1	T7	41:DA	O3'	42:DG	P	1.77
1	T7	53:DA	O3'	54:DG	P	1.77
1	T8	13:DA	O3'	14:DG	P	1.77
1	T8	27:DA	O3'	28:DG	P	1.77
1	TA	8:DA	O3'	9:DG	P	1.77
1	TA	32:DA	O3'	33:DG	P	1.77
1	TC	29:DA	O3'	30:DG	P	1.77
1	TD	20:DA	O3'	21:DG	P	1.77
1	U2	27:DA	O3'	28:DG	P	1.77
1	U3	18:DA	O3'	19:DG	P	1.77
1	U5	16:DA	O3'	17:DG	P	1.77
1	U5	20:DT	O3'	21:DG	P	1.77
1	U5	37:DA	O3'	38:DG	P	1.77
1	U7	10:DA	O3'	11:DG	P	1.77
1	U8	4:DA	O3'	5:DG	P	1.77
1	UC	26:DA	O3'	27:DG	P	1.77
1	UD	8:DA	O3'	9:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	V2	14:DA	O3'	15:DG	P	1.77
1	V5	20:DA	O3'	21:DG	P	1.77
1	V5	36:DA	O3'	37:DG	P	1.77
1	V8	10:DA	O3'	11:DG	P	1.77
1	V8	12:DA	O3'	13:DG	P	1.77
1	V8	23:DA	O3'	24:DG	P	1.77
1	V9	23:DA	O3'	24:DG	P	1.77
1	VA	6:DA	O3'	7:DG	P	1.77
1	VC	11:DA	O3'	12:DG	P	1.77
1	VC	23:DA	O3'	24:DG	P	1.77
1	VC	28:DA	O3'	29:DG	P	1.77
1	VC	34:DA	O3'	35:DG	P	1.77
1	VC	38:DA	O3'	39:DG	P	1.77
1	VD	6:DA	O3'	7:DG	P	1.77
1	W3	40:DA	O3'	41:DG	P	1.77
1	W5	12:DT	O3'	13:DG	P	1.77
1	W5	17:DA	O3'	18:DG	P	1.77
1	W8	17:DA	O3'	18:DG	P	1.77
1	W9	6:DA	O3'	7:DG	P	1.77
1	W9	13:DA	O3'	14:DG	P	1.77
1	W9	15:DA	O3'	16:DG	P	1.77
1	WD	11:DA	O3'	12:DG	P	1.77
1	X9	19:DA	O3'	20:DG	P	1.77
1	A1	3:DA	O3'	4:DG	P	1.76
1	A1	14:DA	O3'	15:DG	P	1.76
1	A2	22:DT	O3'	23:DG	P	1.76
1	A3	19:DA	O3'	20:DG	P	1.76
1	A3	22:DT	O3'	23:DG	P	1.76
1	A4	22:DT	O3'	23:DG	P	1.76
1	A5	2:DT	O3'	3:DG	P	1.76
1	A5	40:DT	O3'	41:DG	P	1.76
1	A6	8:DA	O3'	9:DG	P	1.76
1	A6	20:DT	O3'	21:DG	P	1.76
1	A6	22:DA	O3'	23:DG	P	1.76
1	A6	27:DA	O3'	28:DG	P	1.76
1	A7	10:DT	O3'	11:DG	P	1.76
1	A8	9:DA	O3'	10:DG	P	1.76
1	A8	15:DA	O3'	16:DG	P	1.76
1	A8	23:DT	O3'	24:DG	P	1.76
1	A9	5:DT	O3'	6:DG	P	1.76
1	A9	7:DA	O3'	8:DG	P	1.76
1	A9	9:DA	O3'	10:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A9	17:DA	O3'	18:DG	P	1.76
1	AB	13:DT	O3'	14:DG	P	1.76
1	AB	17:DT	O3'	18:DG	P	1.76
1	AB	24:DT	O3'	25:DG	P	1.76
1	AB	28:DT	O3'	29:DG	P	1.76
1	AB	31:DT	O3'	32:DG	P	1.76
1	AB	37:DT	O3'	38:DG	P	1.76
1	AB	60:DA	O3'	61:DG	P	1.76
1	AB	63:DT	O3'	64:DG	P	1.76
1	AB	69:DA	O3'	70:DG	P	1.76
1	AB	85:DA	O3'	86:DG	P	1.76
1	AB	89:DA	O3'	90:DG	P	1.76
1	AB	92:DT	O3'	93:DG	P	1.76
1	AB	112:DA	O3'	113:DG	P	1.76
1	AB	122:DT	O3'	123:DG	P	1.76
1	AB	136:DT	O3'	137:DG	P	1.76
1	AB	139:DA	O3'	140:DG	P	1.76
1	AB	151:DT	O3'	152:DG	P	1.76
1	AB	182:DT	O3'	183:DG	P	1.76
1	AB	206:DT	O3'	207:DG	P	1.76
1	AB	212:DT	O3'	213:DG	P	1.76
1	AB	215:DT	O3'	216:DG	P	1.76
1	AB	264:DT	O3'	265:DG	P	1.76
1	AB	269:DA	O3'	270:DG	P	1.76
1	AB	284:DA	O3'	285:DG	P	1.76
1	AB	302:DT	O3'	303:DG	P	1.76
1	AB	304:DA	O3'	305:DG	P	1.76
1	AB	309:DT	O3'	310:DG	P	1.76
1	AB	313:DT	O3'	314:DG	P	1.76
1	AB	315:DT	O3'	316:DG	P	1.76
1	AB	320:DT	O3'	321:DG	P	1.76
1	AB	326:DA	O3'	327:DG	P	1.76
1	AB	332:DT	O3'	333:DG	P	1.76
1	AB	339:DT	O3'	340:DG	P	1.76
1	AB	344:DT	O3'	345:DG	P	1.76
1	AB	347:DT	O3'	348:DG	P	1.76
1	AB	360:DT	O3'	361:DG	P	1.76
1	AB	372:DT	O3'	373:DG	P	1.76
1	AB	383:DT	O3'	384:DG	P	1.76
1	AB	389:DT	O3'	390:DG	P	1.76
1	AB	398:DT	O3'	399:DG	P	1.76
1	AB	410:DT	O3'	411:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	413:DT	O3'	414:DG	P	1.76
1	AB	419:DT	O3'	420:DG	P	1.76
1	AB	434:DT	O3'	435:DG	P	1.76
1	AB	440:DT	O3'	441:DG	P	1.76
1	AB	449:DT	O3'	450:DG	P	1.76
1	AB	473:DT	O3'	474:DG	P	1.76
1	AB	482:DT	O3'	483:DG	P	1.76
1	AB	539:DT	O3'	540:DG	P	1.76
1	AB	545:DT	O3'	546:DG	P	1.76
1	AB	578:DT	O3'	579:DG	P	1.76
1	AB	607:DT	O3'	608:DG	P	1.76
1	AB	650:DT	O3'	651:DG	P	1.76
1	AB	680:DT	O3'	681:DG	P	1.76
1	AB	703:DA	O3'	704:DG	P	1.76
1	AB	713:DT	O3'	714:DG	P	1.76
1	AB	730:DT	O3'	731:DG	P	1.76
1	AB	761:DA	O3'	762:DG	P	1.76
1	AB	765:DT	O3'	766:DG	P	1.76
1	AB	779:DT	O3'	780:DG	P	1.76
1	AB	788:DT	O3'	789:DG	P	1.76
1	AB	800:DT	O3'	801:DG	P	1.76
1	AB	806:DT	O3'	807:DG	P	1.76
1	AB	827:DT	O3'	828:DG	P	1.76
1	AB	832:DT	O3'	833:DG	P	1.76
1	AB	845:DT	O3'	846:DG	P	1.76
1	AB	851:DT	O3'	852:DG	P	1.76
1	AB	854:DT	O3'	855:DG	P	1.76
1	AB	866:DT	O3'	867:DG	P	1.76
1	AB	869:DT	O3'	870:DG	P	1.76
1	AB	872:DT	O3'	873:DG	P	1.76
1	AB	878:DT	O3'	879:DG	P	1.76
1	AB	881:DT	O3'	882:DG	P	1.76
1	AB	890:DT	O3'	891:DG	P	1.76
1	AB	892:DA	O3'	893:DG	P	1.76
1	AB	896:DT	O3'	897:DG	P	1.76
1	AB	899:DT	O3'	900:DG	P	1.76
1	AB	905:DT	O3'	906:DG	P	1.76
1	AB	907:DA	O3'	908:DG	P	1.76
1	AB	911:DT	O3'	912:DG	P	1.76
1	AB	920:DT	O3'	921:DG	P	1.76
1	AB	922:DA	O3'	923:DG	P	1.76
1	AB	926:DT	O3'	927:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	935:DT	O3'	936:DG	P	1.76
1	AB	953:DT	O3'	954:DG	P	1.76
1	AB	962:DT	O3'	963:DG	P	1.76
1	AB	971:DT	O3'	972:DG	P	1.76
1	AB	977:DT	O3'	978:DG	P	1.76
1	AB	983:DT	O3'	984:DG	P	1.76
1	AB	991:DT	O3'	992:DG	P	1.76
1	AB	1031:DT	O3'	1032:DG	P	1.76
1	AB	1058:DA	O3'	1059:DG	P	1.76
1	AB	1067:DT	O3'	1068:DG	P	1.76
1	AB	1082:DT	O3'	1083:DG	P	1.76
1	AB	1091:DT	O3'	1092:DG	P	1.76
1	AB	1094:DT	O3'	1095:DG	P	1.76
1	AB	1103:DT	O3'	1104:DG	P	1.76
1	AB	1112:DT	O3'	1113:DG	P	1.76
1	AB	1115:DT	O3'	1116:DG	P	1.76
1	AB	1142:DT	O3'	1143:DG	P	1.76
1	AB	1145:DT	O3'	1146:DG	P	1.76
1	AB	1151:DT	O3'	1152:DG	P	1.76
1	AB	1154:DT	O3'	1155:DG	P	1.76
1	AB	1160:DT	O3'	1161:DG	P	1.76
1	AB	1163:DT	O3'	1164:DG	P	1.76
1	AB	1180:DT	O3'	1181:DG	P	1.76
1	AB	1193:DT	O3'	1194:DG	P	1.76
1	AB	1199:DT	O3'	1200:DG	P	1.76
1	AB	1216:DT	O3'	1217:DG	P	1.76
1	AB	1259:DT	O3'	1260:DG	P	1.76
1	AB	1263:DT	O3'	1264:DG	P	1.76
1	AB	1274:DT	O3'	1275:DG	P	1.76
1	AB	1280:DT	O3'	1281:DG	P	1.76
1	AB	1286:DT	O3'	1287:DG	P	1.76
1	AB	1298:DT	O3'	1299:DG	P	1.76
1	AB	1337:DT	O3'	1338:DG	P	1.76
1	AB	1340:DT	O3'	1341:DG	P	1.76
1	AB	1346:DT	O3'	1347:DG	P	1.76
1	AB	1361:DT	O3'	1362:DG	P	1.76
1	AB	1364:DT	O3'	1365:DG	P	1.76
1	AB	1375:DT	O3'	1376:DG	P	1.76
1	AB	1379:DT	O3'	1380:DG	P	1.76
1	AB	1394:DT	O3'	1395:DG	P	1.76
1	AB	1405:DT	O3'	1406:DG	P	1.76
1	AB	1414:DA	O3'	1415:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	1428:DT	O3'	1429:DG	P	1.76
1	AB	1432:DA	O3'	1433:DG	P	1.76
1	AB	1440:DT	O3'	1441:DG	P	1.76
1	AB	1458:DT	O3'	1459:DG	P	1.76
1	AB	1479:DT	O3'	1480:DG	P	1.76
1	AB	1488:DT	O3'	1489:DG	P	1.76
1	AB	1500:DT	O3'	1501:DG	P	1.76
1	AB	1540:DT	O3'	1541:DG	P	1.76
1	AB	1551:DT	O3'	1552:DG	P	1.76
1	AB	1570:DT	O3'	1571:DG	P	1.76
1	AB	1588:DT	O3'	1589:DG	P	1.76
1	AB	1590:DT	O3'	1591:DG	P	1.76
1	AB	1603:DT	O3'	1604:DG	P	1.76
1	AB	1610:DA	O3'	1611:DG	P	1.76
1	AB	1627:DT	O3'	1628:DG	P	1.76
1	AB	1633:DT	O3'	1634:DG	P	1.76
1	AB	1638:DA	O3'	1639:DG	P	1.76
1	AB	1642:DT	O3'	1643:DG	P	1.76
1	AB	1666:DT	O3'	1667:DG	P	1.76
1	AB	1676:DT	O3'	1677:DG	P	1.76
1	AB	1684:DT	O3'	1685:DG	P	1.76
1	AB	1696:DT	O3'	1697:DG	P	1.76
1	AB	1705:DT	O3'	1706:DG	P	1.76
1	AB	1720:DT	O3'	1721:DG	P	1.76
1	AB	1749:DT	O3'	1750:DG	P	1.76
1	AB	1754:DT	O3'	1755:DG	P	1.76
1	AB	1768:DT	O3'	1769:DG	P	1.76
1	AB	1772:DT	O3'	1773:DG	P	1.76
1	AB	1781:DT	O3'	1782:DG	P	1.76
1	AB	1787:DT	O3'	1788:DG	P	1.76
1	AB	1802:DT	O3'	1803:DG	P	1.76
1	AB	1844:DT	O3'	1845:DG	P	1.76
1	AB	1850:DT	O3'	1851:DG	P	1.76
1	AB	1854:DT	O3'	1855:DG	P	1.76
1	AB	1862:DA	O3'	1863:DG	P	1.76
1	AB	1874:DT	O3'	1875:DG	P	1.76
1	AB	1966:DT	O3'	1967:DG	P	1.76
1	AB	1970:DT	O3'	1971:DG	P	1.76
1	AB	1976:DT	O3'	1977:DG	P	1.76
1	AB	1988:DT	O3'	1989:DG	P	1.76
1	AB	2000:DT	O3'	2001:DG	P	1.76
1	AB	2017:DT	O3'	2018:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	2034:DT	O3'	2035:DG	P	1.76
1	AB	2043:DT	O3'	2044:DG	P	1.76
1	AB	2061:DT	O3'	2062:DG	P	1.76
1	AB	2066:DT	O3'	2067:DG	P	1.76
1	AB	2090:DT	O3'	2091:DG	P	1.76
1	AB	2094:DT	O3'	2095:DG	P	1.76
1	AB	2105:DT	O3'	2106:DG	P	1.76
1	AB	2138:DT	O3'	2139:DG	P	1.76
1	AB	2156:DT	O3'	2157:DG	P	1.76
1	AB	2159:DT	O3'	2160:DG	P	1.76
1	AB	2177:DT	O3'	2178:DG	P	1.76
1	AB	2186:DT	O3'	2187:DG	P	1.76
1	AB	2195:DT	O3'	2196:DG	P	1.76
1	AB	2202:DT	O3'	2203:DG	P	1.76
1	AB	2212:DT	O3'	2213:DG	P	1.76
1	AB	2217:DA	O3'	2218:DG	P	1.76
1	AB	2234:DT	O3'	2235:DG	P	1.76
1	AB	2261:DT	O3'	2262:DG	P	1.76
1	AB	2278:DT	O3'	2279:DG	P	1.76
1	AB	2291:DT	O3'	2292:DG	P	1.76
1	AB	2294:DT	O3'	2295:DG	P	1.76
1	AB	2300:DT	O3'	2301:DG	P	1.76
1	AB	2309:DT	O3'	2310:DG	P	1.76
1	AB	2333:DT	O3'	2334:DG	P	1.76
1	AB	2343:DT	O3'	2344:DG	P	1.76
1	AB	2354:DT	O3'	2355:DG	P	1.76
1	AB	2365:DT	O3'	2366:DG	P	1.76
1	AB	2378:DT	O3'	2379:DG	P	1.76
1	AB	2389:DA	O3'	2390:DG	P	1.76
1	AB	2400:DA	O3'	2401:DG	P	1.76
1	AB	2408:DT	O3'	2409:DG	P	1.76
1	AB	2417:DT	O3'	2418:DG	P	1.76
1	AB	2477:DA	O3'	2478:DG	P	1.76
1	AB	2488:DT	O3'	2489:DG	P	1.76
1	AB	2509:DT	O3'	2510:DG	P	1.76
1	AB	2532:DT	O3'	2533:DG	P	1.76
1	AB	2537:DT	O3'	2538:DG	P	1.76
1	AB	2543:DT	O3'	2544:DG	P	1.76
1	AB	2549:DT	O3'	2550:DG	P	1.76
1	AB	2555:DA	O3'	2556:DG	P	1.76
1	AB	2568:DA	O3'	2569:DG	P	1.76
1	AB	2621:DT	O3'	2622:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	2627:DT	O3'	2628:DG	P	1.76
1	AB	2642:DT	O3'	2643:DG	P	1.76
1	AB	2653:DA	O3'	2654:DG	P	1.76
1	AB	2712:DA	O3'	2713:DG	P	1.76
1	AB	2728:DA	O3'	2729:DG	P	1.76
1	AB	2732:DA	O3'	2733:DG	P	1.76
1	AB	2753:DT	O3'	2754:DG	P	1.76
1	AB	2760:DT	O3'	2761:DG	P	1.76
1	AB	2765:DT	O3'	2766:DG	P	1.76
1	AB	2780:DA	O3'	2781:DG	P	1.76
1	AB	2798:DT	O3'	2799:DG	P	1.76
1	AB	2805:DT	O3'	2806:DG	P	1.76
1	AB	2825:DT	O3'	2826:DG	P	1.76
1	AB	2828:DT	O3'	2829:DG	P	1.76
1	AB	2832:DT	O3'	2833:DG	P	1.76
1	AB	2862:DT	O3'	2863:DG	P	1.76
1	AB	2867:DT	O3'	2868:DG	P	1.76
1	AB	2882:DT	O3'	2883:DG	P	1.76
1	AB	2892:DT	O3'	2893:DG	P	1.76
1	AB	2899:DT	O3'	2900:DG	P	1.76
1	AB	2916:DA	O3'	2917:DG	P	1.76
1	AB	2931:DT	O3'	2932:DG	P	1.76
1	AB	2943:DT	O3'	2944:DG	P	1.76
1	AB	2949:DA	O3'	2950:DG	P	1.76
1	AB	2955:DT	O3'	2956:DG	P	1.76
1	AB	2961:DT	O3'	2962:DG	P	1.76
1	AB	2985:DT	O3'	2986:DG	P	1.76
1	AB	3012:DT	O3'	3013:DG	P	1.76
1	AB	3033:DT	O3'	3034:DG	P	1.76
1	AB	3038:DT	O3'	3039:DG	P	1.76
1	AB	3065:DA	O3'	3066:DG	P	1.76
1	AB	3068:DA	O3'	3069:DG	P	1.76
1	AB	3086:DA	O3'	3087:DG	P	1.76
1	AB	3096:DT	O3'	3097:DG	P	1.76
1	AB	3099:DT	O3'	3100:DG	P	1.76
1	AB	3104:DT	O3'	3105:DG	P	1.76
1	AB	3114:DT	O3'	3115:DG	P	1.76
1	AB	3132:DT	O3'	3133:DG	P	1.76
1	AB	3150:DT	O3'	3151:DG	P	1.76
1	AB	3153:DT	O3'	3154:DG	P	1.76
1	AB	3174:DT	O3'	3175:DG	P	1.76
1	AB	3180:DT	O3'	3181:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	3218:DA	O3'	3219:DG	P	1.76
1	AB	3231:DA	O3'	3232:DG	P	1.76
1	AB	3234:DT	O3'	3235:DG	P	1.76
1	AB	3242:DT	O3'	3243:DG	P	1.76
1	AB	3246:DT	O3'	3247:DG	P	1.76
1	AB	3251:DA	O3'	3252:DG	P	1.76
1	AB	3276:DT	O3'	3277:DG	P	1.76
1	AB	3309:DT	O3'	3310:DG	P	1.76
1	AB	3315:DT	O3'	3316:DG	P	1.76
1	AB	3360:DT	O3'	3361:DG	P	1.76
1	AB	3363:DT	O3'	3364:DG	P	1.76
1	AB	3368:DT	O3'	3369:DG	P	1.76
1	AB	3375:DT	O3'	3376:DG	P	1.76
1	AB	3386:DT	O3'	3387:DG	P	1.76
1	AB	3390:DT	O3'	3391:DG	P	1.76
1	AB	3392:DA	O3'	3393:DG	P	1.76
1	AB	3398:DT	O3'	3399:DG	P	1.76
1	AB	3405:DT	O3'	3406:DG	P	1.76
1	AB	3407:DA	O3'	3408:DG	P	1.76
1	AB	3413:DA	O3'	3414:DG	P	1.76
1	AB	3417:DA	O3'	3418:DG	P	1.76
1	AB	3420:DT	O3'	3421:DG	P	1.76
1	AB	3423:DT	O3'	3424:DG	P	1.76
1	AB	3429:DA	O3'	3430:DG	P	1.76
1	AB	3444:DT	O3'	3445:DG	P	1.76
1	AB	3447:DT	O3'	3448:DG	P	1.76
1	AB	3459:DT	O3'	3460:DG	P	1.76
1	AB	3465:DT	O3'	3466:DG	P	1.76
1	AB	3477:DT	O3'	3478:DG	P	1.76
1	AB	3501:DT	O3'	3502:DG	P	1.76
1	AB	3513:DT	O3'	3514:DG	P	1.76
1	AB	3516:DT	O3'	3517:DG	P	1.76
1	AB	3519:DT	O3'	3520:DG	P	1.76
1	AB	3540:DT	O3'	3541:DG	P	1.76
1	AB	3546:DT	O3'	3547:DG	P	1.76
1	AB	3552:DA	O3'	3553:DG	P	1.76
1	AB	3583:DA	O3'	3584:DG	P	1.76
1	AB	3599:DT	O3'	3600:DG	P	1.76
1	AB	3603:DT	O3'	3604:DG	P	1.76
1	AB	3605:DT	O3'	3606:DG	P	1.76
1	AB	3632:DA	O3'	3633:DG	P	1.76
1	AB	3635:DA	O3'	3636:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	3651:DT	O3'	3652:DG	P	1.76
1	AB	3656:DA	O3'	3657:DG	P	1.76
1	AB	3660:DT	O3'	3661:DG	P	1.76
1	AB	3675:DT	O3'	3676:DG	P	1.76
1	AB	3681:DT	O3'	3682:DG	P	1.76
1	AB	3683:DT	O3'	3684:DG	P	1.76
1	AB	3687:DT	O3'	3688:DG	P	1.76
1	AB	3702:DT	O3'	3703:DG	P	1.76
1	AB	3726:DT	O3'	3727:DG	P	1.76
1	AB	3728:DA	O3'	3729:DG	P	1.76
1	AB	3738:DT	O3'	3739:DG	P	1.76
1	AB	3741:DA	O3'	3742:DG	P	1.76
1	AB	3752:DT	O3'	3753:DG	P	1.76
1	AB	3765:DT	O3'	3766:DG	P	1.76
1	AB	3768:DT	O3'	3769:DG	P	1.76
1	AB	3773:DT	O3'	3774:DG	P	1.76
1	AB	3777:DT	O3'	3778:DG	P	1.76
1	AB	3789:DT	O3'	3790:DG	P	1.76
1	AB	3794:DT	O3'	3795:DG	P	1.76
1	AB	3805:DA	O3'	3806:DG	P	1.76
1	AB	3809:DA	O3'	3810:DG	P	1.76
1	AB	3817:DA	O3'	3818:DG	P	1.76
1	AB	3821:DT	O3'	3822:DG	P	1.76
1	AB	3823:DA	O3'	3824:DG	P	1.76
1	AB	3843:DT	O3'	3844:DG	P	1.76
1	AB	3862:DA	O3'	3863:DG	P	1.76
1	AB	3870:DT	O3'	3871:DG	P	1.76
1	AB	3887:DT	O3'	3888:DG	P	1.76
1	AB	3891:DT	O3'	3892:DG	P	1.76
1	AB	3894:DT	O3'	3895:DG	P	1.76
1	AB	3915:DT	O3'	3916:DG	P	1.76
1	AB	3924:DT	O3'	3925:DG	P	1.76
1	AB	3951:DT	O3'	3952:DG	P	1.76
1	AB	3965:DT	O3'	3966:DG	P	1.76
1	AB	4019:DA	O3'	4020:DG	P	1.76
1	AB	4037:DT	O3'	4038:DG	P	1.76
1	AB	4067:DT	O3'	4068:DG	P	1.76
1	AB	4093:DT	O3'	4094:DG	P	1.76
1	AB	4095:DT	O3'	4096:DG	P	1.76
1	AB	4098:DT	O3'	4099:DG	P	1.76
1	AB	4201:DA	O3'	4202:DG	P	1.76
1	AB	4240:DT	O3'	4241:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	4270:DT	O3'	4271:DG	P	1.76
1	AB	4275:DT	O3'	4276:DG	P	1.76
1	AB	4279:DT	O3'	4280:DG	P	1.76
1	AB	4282:DT	O3'	4283:DG	P	1.76
1	AB	4294:DT	O3'	4295:DG	P	1.76
1	AB	4306:DT	O3'	4307:DG	P	1.76
1	AB	4310:DA	O3'	4311:DG	P	1.76
1	AB	4328:DT	O3'	4329:DG	P	1.76
1	AB	4334:DT	O3'	4335:DG	P	1.76
1	AB	4337:DA	O3'	4338:DG	P	1.76
1	AB	4356:DT	O3'	4357:DG	P	1.76
1	AB	4364:DT	O3'	4365:DG	P	1.76
1	AB	4374:DT	O3'	4375:DG	P	1.76
1	AB	4410:DT	O3'	4411:DG	P	1.76
1	AB	4465:DT	O3'	4466:DG	P	1.76
1	AB	4468:DT	O3'	4469:DG	P	1.76
1	AB	4492:DT	O3'	4493:DG	P	1.76
1	AB	4495:DT	O3'	4496:DG	P	1.76
1	AB	4519:DT	O3'	4520:DG	P	1.76
1	AB	4552:DT	O3'	4553:DG	P	1.76
1	AB	4557:DA	O3'	4558:DG	P	1.76
1	AB	4570:DT	O3'	4571:DG	P	1.76
1	AB	4606:DT	O3'	4607:DG	P	1.76
1	AB	4621:DT	O3'	4622:DG	P	1.76
1	AB	4624:DA	O3'	4625:DG	P	1.76
1	AB	4627:DT	O3'	4628:DG	P	1.76
1	AB	4636:DA	O3'	4637:DG	P	1.76
1	AB	4648:DT	O3'	4649:DG	P	1.76
1	AB	4653:DA	O3'	4654:DG	P	1.76
1	AB	4680:DT	O3'	4681:DG	P	1.76
1	AB	4682:DT	O3'	4683:DG	P	1.76
1	AB	4709:DA	O3'	4710:DG	P	1.76
1	AB	4724:DT	O3'	4725:DG	P	1.76
1	AB	4739:DT	O3'	4740:DG	P	1.76
1	AB	4742:DT	O3'	4743:DG	P	1.76
1	AB	4744:DT	O3'	4745:DG	P	1.76
1	AB	4746:DT	O3'	4747:DG	P	1.76
1	AB	4752:DT	O3'	4753:DG	P	1.76
1	AB	4776:DA	O3'	4777:DG	P	1.76
1	AB	4788:DT	O3'	4789:DG	P	1.76
1	AB	4794:DT	O3'	4795:DG	P	1.76
1	AB	4833:DA	O3'	4834:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	4841:DT	O3'	4842:DG	P	1.76
1	AB	4844:DA	O3'	4845:DG	P	1.76
1	AB	4849:DT	O3'	4850:DG	P	1.76
1	AB	4857:DT	O3'	4858:DG	P	1.76
1	AB	4885:DT	O3'	4886:DG	P	1.76
1	AB	4889:DT	O3'	4890:DG	P	1.76
1	AB	4900:DT	O3'	4901:DG	P	1.76
1	AB	4924:DT	O3'	4925:DG	P	1.76
1	AB	4949:DT	O3'	4950:DG	P	1.76
1	AB	4958:DA	O3'	4959:DG	P	1.76
1	AB	4963:DA	O3'	4964:DG	P	1.76
1	AB	4965:DA	O3'	4966:DG	P	1.76
1	AB	4995:DT	O3'	4996:DG	P	1.76
1	AB	5004:DT	O3'	5005:DG	P	1.76
1	AB	5008:DT	O3'	5009:DG	P	1.76
1	AB	5015:DT	O3'	5016:DG	P	1.76
1	AB	5023:DT	O3'	5024:DG	P	1.76
1	AB	5027:DT	O3'	5028:DG	P	1.76
1	AB	5044:DA	O3'	5045:DG	P	1.76
1	AB	5049:DT	O3'	5050:DG	P	1.76
1	AB	5057:DA	O3'	5058:DG	P	1.76
1	AB	5060:DT	O3'	5061:DG	P	1.76
1	AB	5064:DT	O3'	5065:DG	P	1.76
1	AB	5069:DT	O3'	5070:DG	P	1.76
1	AB	5080:DT	O3'	5081:DG	P	1.76
1	AB	5092:DT	O3'	5093:DG	P	1.76
1	AB	5111:DT	O3'	5112:DG	P	1.76
1	AB	5115:DA	O3'	5116:DG	P	1.76
1	AB	5118:DT	O3'	5119:DG	P	1.76
1	AB	5151:DT	O3'	5152:DG	P	1.76
1	AB	5182:DT	O3'	5183:DG	P	1.76
1	AB	5193:DA	O3'	5194:DG	P	1.76
1	AB	5227:DT	O3'	5228:DG	P	1.76
1	AB	5230:DT	O3'	5231:DG	P	1.76
1	AB	5240:DT	O3'	5241:DG	P	1.76
1	AB	5251:DA	O3'	5252:DG	P	1.76
1	AB	5256:DA	O3'	5257:DG	P	1.76
1	AB	5272:DT	O3'	5273:DG	P	1.76
1	AB	5275:DT	O3'	5276:DG	P	1.76
1	AB	5287:DT	O3'	5288:DG	P	1.76
1	AB	5298:DT	O3'	5299:DG	P	1.76
1	AB	5322:DT	O3'	5323:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	5364:DT	O3'	5365:DG	P	1.76
1	AB	5381:DT	O3'	5382:DG	P	1.76
1	AB	5398:DT	O3'	5399:DG	P	1.76
1	AB	5420:DT	O3'	5421:DG	P	1.76
1	AB	5424:DT	O3'	5425:DG	P	1.76
1	AB	5429:DT	O3'	5430:DG	P	1.76
1	AB	5433:DA	O3'	5434:DG	P	1.76
1	AB	5463:DT	O3'	5464:DG	P	1.76
1	AB	5467:DT	O3'	5468:DG	P	1.76
1	AB	5473:DA	O3'	5474:DG	P	1.76
1	AB	5481:DA	O3'	5482:DG	P	1.76
1	AB	5487:DT	O3'	5488:DG	P	1.76
1	AB	5492:DT	O3'	5493:DG	P	1.76
1	AB	5496:DA	O3'	5497:DG	P	1.76
1	AB	5502:DT	O3'	5503:DG	P	1.76
1	AB	5505:DA	O3'	5506:DG	P	1.76
1	AB	5551:DA	O3'	5552:DG	P	1.76
1	AB	5559:DT	O3'	5560:DG	P	1.76
1	AB	5571:DT	O3'	5572:DG	P	1.76
1	AB	5574:DT	O3'	5575:DG	P	1.76
1	AB	5577:DT	O3'	5578:DG	P	1.76
1	AB	5582:DT	O3'	5583:DG	P	1.76
1	AB	5610:DT	O3'	5611:DG	P	1.76
1	AB	5634:DA	O3'	5635:DG	P	1.76
1	AB	5640:DT	O3'	5641:DG	P	1.76
1	AB	5655:DT	O3'	5656:DG	P	1.76
1	AB	5657:DA	O3'	5658:DG	P	1.76
1	AB	5680:DT	O3'	5681:DG	P	1.76
1	AB	5685:DT	O3'	5686:DG	P	1.76
1	AB	5727:DT	O3'	5728:DG	P	1.76
1	AB	5733:DT	O3'	5734:DG	P	1.76
1	AB	5748:DA	O3'	5749:DG	P	1.76
1	AB	5755:DT	O3'	5756:DG	P	1.76
1	AB	5760:DT	O3'	5761:DG	P	1.76
1	AB	5771:DT	O3'	5772:DG	P	1.76
1	AB	5792:DT	O3'	5793:DG	P	1.76
1	AB	5797:DT	O3'	5798:DG	P	1.76
1	AB	5801:DT	O3'	5802:DG	P	1.76
1	AB	5805:DT	O3'	5806:DG	P	1.76
1	AB	5813:DT	O3'	5814:DG	P	1.76
1	AB	5817:DT	O3'	5818:DG	P	1.76
1	AB	5823:DT	O3'	5824:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	5836:DA	O3'	5837:DG	P	1.76
1	AB	5839:DA	O3'	5840:DG	P	1.76
1	AB	5844:DT	O3'	5845:DG	P	1.76
1	AB	5847:DT	O3'	5848:DG	P	1.76
1	AB	5874:DT	O3'	5875:DG	P	1.76
1	AB	5891:DA	O3'	5892:DG	P	1.76
1	AB	5898:DT	O3'	5899:DG	P	1.76
1	AB	5906:DT	O3'	5907:DG	P	1.76
1	AB	5922:DT	O3'	5923:DG	P	1.76
1	AB	5948:DA	O3'	5949:DG	P	1.76
1	AB	5953:DT	O3'	5954:DG	P	1.76
1	AB	5964:DT	O3'	5965:DG	P	1.76
1	AB	5971:DT	O3'	5972:DG	P	1.76
1	AB	5976:DT	O3'	5977:DG	P	1.76
1	AB	6003:DT	O3'	6004:DG	P	1.76
1	AB	6018:DT	O3'	6019:DG	P	1.76
1	AB	6021:DT	O3'	6022:DG	P	1.76
1	AB	6023:DA	O3'	6024:DG	P	1.76
1	AB	6041:DA	O3'	6042:DG	P	1.76
1	AB	6049:DA	O3'	6050:DG	P	1.76
1	AB	6114:DT	O3'	6115:DG	P	1.76
1	AB	6119:DT	O3'	6120:DG	P	1.76
1	AB	6129:DT	O3'	6130:DG	P	1.76
1	AB	6140:DT	O3'	6141:DG	P	1.76
1	AB	6150:DT	O3'	6151:DG	P	1.76
1	AB	6153:DA	O3'	6154:DG	P	1.76
1	AB	6176:DT	O3'	6177:DG	P	1.76
1	AB	6207:DT	O3'	6208:DG	P	1.76
1	AB	6210:DT	O3'	6211:DG	P	1.76
1	AB	6222:DT	O3'	6223:DG	P	1.76
1	AB	6228:DT	O3'	6229:DG	P	1.76
1	AB	6254:DT	O3'	6255:DG	P	1.76
1	AB	6261:DT	O3'	6262:DG	P	1.76
1	AB	6268:DT	O3'	6269:DG	P	1.76
1	AB	6285:DT	O3'	6286:DG	P	1.76
1	AB	6290:DT	O3'	6291:DG	P	1.76
1	AB	6297:DA	O3'	6298:DG	P	1.76
1	AB	6317:DT	O3'	6318:DG	P	1.76
1	AB	6327:DT	O3'	6328:DG	P	1.76
1	AB	6344:DT	O3'	6345:DG	P	1.76
1	AB	6356:DA	O3'	6357:DG	P	1.76
1	AB	6384:DT	O3'	6385:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	6420:DT	O3'	6421:DG	P	1.76
1	AB	6437:DT	O3'	6438:DG	P	1.76
1	AB	6453:DT	O3'	6454:DG	P	1.76
1	AB	6457:DA	O3'	6458:DG	P	1.76
1	AB	6459:DT	O3'	6460:DG	P	1.76
1	AB	6462:DT	O3'	6463:DG	P	1.76
1	AB	6490:DT	O3'	6491:DG	P	1.76
1	AB	6498:DT	O3'	6499:DG	P	1.76
1	AB	6504:DT	O3'	6505:DG	P	1.76
1	AB	6513:DT	O3'	6514:DG	P	1.76
1	AB	6517:DT	O3'	6518:DG	P	1.76
1	AB	6519:DT	O3'	6520:DG	P	1.76
1	AB	6539:DT	O3'	6540:DG	P	1.76
1	AB	6542:DT	O3'	6543:DG	P	1.76
1	AB	6564:DT	O3'	6565:DG	P	1.76
1	AB	6615:DT	O3'	6616:DG	P	1.76
1	AB	6619:DT	O3'	6620:DG	P	1.76
1	AB	6627:DT	O3'	6628:DG	P	1.76
1	AB	6629:DA	O3'	6630:DG	P	1.76
1	AB	6633:DA	O3'	6634:DG	P	1.76
1	AB	6674:DT	O3'	6675:DG	P	1.76
1	AB	6692:DA	O3'	6693:DG	P	1.76
1	AB	6713:DT	O3'	6714:DG	P	1.76
1	AB	6745:DT	O3'	6746:DG	P	1.76
1	AB	6749:DT	O3'	6750:DG	P	1.76
1	AB	6754:DA	O3'	6755:DG	P	1.76
1	AB	6759:DT	O3'	6760:DG	P	1.76
1	AB	6767:DT	O3'	6768:DG	P	1.76
1	AB	6772:DT	O3'	6773:DG	P	1.76
1	AB	6779:DT	O3'	6780:DG	P	1.76
1	AB	6794:DT	O3'	6795:DG	P	1.76
1	AB	6809:DT	O3'	6810:DG	P	1.76
1	AB	6824:DA	O3'	6825:DG	P	1.76
1	AB	6830:DT	O3'	6831:DG	P	1.76
1	AB	6836:DT	O3'	6837:DG	P	1.76
1	AB	6841:DT	O3'	6842:DG	P	1.76
1	AB	6856:DT	O3'	6857:DG	P	1.76
1	AB	6892:DT	O3'	6893:DG	P	1.76
1	AB	6904:DT	O3'	6905:DG	P	1.76
1	AB	6922:DA	O3'	6923:DG	P	1.76
1	AB	6929:DT	O3'	6930:DG	P	1.76
1	AB	6935:DA	O3'	6936:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	6968:DT	O3'	6969:DG	P	1.76
1	AB	6984:DT	O3'	6985:DG	P	1.76
1	AB	6991:DT	O3'	6992:DG	P	1.76
1	AB	7002:DT	O3'	7003:DG	P	1.76
1	AB	7014:DT	O3'	7015:DG	P	1.76
1	AB	7024:DA	O3'	7025:DG	P	1.76
1	AB	7027:DT	O3'	7028:DG	P	1.76
1	AB	7029:DA	O3'	7030:DG	P	1.76
1	AB	7039:DT	O3'	7040:DG	P	1.76
1	AB	7071:DT	O3'	7072:DG	P	1.76
1	AB	7082:DT	O3'	7083:DG	P	1.76
1	AB	7108:DT	O3'	7109:DG	P	1.76
1	AB	7122:DT	O3'	7123:DG	P	1.76
1	AB	7128:DA	O3'	7129:DG	P	1.76
1	AB	7135:DA	O3'	7136:DG	P	1.76
1	AB	7144:DA	O3'	7145:DG	P	1.76
1	AB	7150:DT	O3'	7151:DG	P	1.76
1	AB	7153:DA	O3'	7154:DG	P	1.76
1	AB	7159:DT	O3'	7160:DG	P	1.76
1	AB	7176:DT	O3'	7177:DG	P	1.76
1	AB	7179:DT	O3'	7180:DG	P	1.76
1	AB	7189:DT	O3'	7190:DG	P	1.76
1	AB	7192:DT	O3'	7193:DG	P	1.76
1	AB	7198:DT	O3'	7199:DG	P	1.76
1	AB	7230:DT	O3'	7231:DG	P	1.76
1	AC	21:DA	O3'	22:DG	P	1.76
1	AD	31:DA	O3'	32:DG	P	1.76
1	AD	42:DT	O3'	43:DG	P	1.76
1	B1	17:DA	O3'	18:DG	P	1.76
1	B1	19:DA	O3'	20:DG	P	1.76
1	B2	15:DA	O3'	16:DG	P	1.76
1	B3	15:DT	O3'	16:DG	P	1.76
1	B4	10:DT	O3'	11:DG	P	1.76
1	B4	21:DT	O3'	22:DG	P	1.76
1	B5	10:DA	O3'	11:DG	P	1.76
1	B6	8:DT	O3'	9:DG	P	1.76
1	B6	16:DA	O3'	17:DG	P	1.76
1	B9	3:DT	O3'	4:DG	P	1.76
1	B9	10:DA	O3'	11:DG	P	1.76
1	B9	12:DA	O3'	13:DG	P	1.76
1	B9	23:DA	O3'	24:DG	P	1.76
1	B9	27:DA	O3'	28:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B9	40:DT	O3'	41:DG	P	1.76
1	B9	44:DT	O3'	45:DG	P	1.76
1	B9	46:DA	O3'	47:DG	P	1.76
1	B9	52:DA	O3'	53:DG	P	1.76
1	BA	32:DT	O3'	33:DG	P	1.76
1	BC	14:DA	O3'	15:DG	P	1.76
1	BC	33:DT	O3'	34:DG	P	1.76
1	C2	8:DT	O3'	9:DG	P	1.76
1	C3	12:DT	O3'	13:DG	P	1.76
1	C5	2:DT	O3'	3:DG	P	1.76
1	C5	9:DA	O3'	10:DG	P	1.76
1	C5	41:DT	O3'	42:DG	P	1.76
1	C6	2:DA	O3'	3:DG	P	1.76
1	C6	6:DA	O3'	7:DG	P	1.76
1	C6	15:DT	O3'	16:DG	P	1.76
1	C6	30:DA	O3'	31:DG	P	1.76
1	C7	2:DA	O3'	3:DG	P	1.76
1	C7	14:DT	O3'	15:DG	P	1.76
1	C7	18:DT	O3'	19:DG	P	1.76
1	C7	22:DA	O3'	23:DG	P	1.76
1	C7	29:DT	O3'	30:DG	P	1.76
1	C8	7:DA	O3'	8:DG	P	1.76
1	C8	14:DT	O3'	15:DG	P	1.76
1	C8	35:DA	O3'	36:DG	P	1.76
1	C8	52:DT	O3'	53:DG	P	1.76
1	C9	8:DT	O3'	9:DG	P	1.76
1	CA	10:DA	O3'	11:DG	P	1.76
1	CA	16:DT	O3'	17:DG	P	1.76
1	CC	21:DA	O3'	22:DG	P	1.76
1	CC	29:DT	O3'	30:DG	P	1.76
1	CD	13:DA	O3'	14:DG	P	1.76
1	D1	16:DA	O3'	17:DG	P	1.76
1	D2	5:DA	O3'	6:DG	P	1.76
1	D3	1:DT	O3'	2:DG	P	1.76
1	D5	17:DA	O3'	18:DG	P	1.76
1	D5	23:DA	O3'	24:DG	P	1.76
1	D6	8:DA	O3'	9:DG	P	1.76
1	D6	17:DT	O3'	18:DG	P	1.76
1	D6	34:DT	O3'	35:DG	P	1.76
1	D7	6:DT	O3'	7:DG	P	1.76
1	D8	4:DA	O3'	5:DG	P	1.76
1	D8	7:DA	O3'	8:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D8	36:DA	O3'	37:DG	P	1.76
1	D9	6:DT	O3'	7:DG	P	1.76
1	D9	22:DA	O3'	23:DG	P	1.76
1	DA	10:DT	O3'	11:DG	P	1.76
1	DC	5:DT	O3'	6:DG	P	1.76
1	DC	7:DA	O3'	8:DG	P	1.76
1	DD	14:DT	O3'	15:DG	P	1.76
1	DD	28:DT	O3'	29:DG	P	1.76
1	DD	37:DA	O3'	38:DG	P	1.76
1	DD	40:DA	O3'	41:DG	P	1.76
1	E1	4:DA	O3'	5:DG	P	1.76
1	E1	6:DA	O3'	7:DG	P	1.76
1	E1	20:DT	O3'	21:DG	P	1.76
1	E2	31:DT	O3'	32:DG	P	1.76
1	E5	22:DT	O3'	23:DG	P	1.76
1	E6	27:DA	O3'	28:DG	P	1.76
1	E6	29:DA	O3'	30:DG	P	1.76
1	E7	10:DT	O3'	11:DG	P	1.76
1	E8	25:DT	O3'	26:DG	P	1.76
1	E9	10:DT	O3'	11:DG	P	1.76
1	E9	28:DT	O3'	29:DG	P	1.76
1	E9	37:DT	O3'	38:DG	P	1.76
1	E9	44:DT	O3'	45:DG	P	1.76
1	EA	7:DT	O3'	8:DG	P	1.76
1	EA	9:DA	O3'	10:DG	P	1.76
1	EA	11:DT	O3'	12:DG	P	1.76
1	EA	14:DT	O3'	15:DG	P	1.76
1	EC	8:DT	O3'	9:DG	P	1.76
1	ED	6:DA	O3'	7:DG	P	1.76
1	ED	18:DT	O3'	19:DG	P	1.76
1	F2	21:DA	O3'	22:DG	P	1.76
1	F3	5:DT	O3'	6:DG	P	1.76
1	F3	8:DA	O3'	9:DG	P	1.76
1	F5	47:DA	O3'	48:DG	P	1.76
1	F6	16:DA	O3'	17:DG	P	1.76
1	F7	13:DT	O3'	14:DG	P	1.76
1	F8	2:DT	O3'	3:DG	P	1.76
1	F9	6:DA	O3'	7:DG	P	1.76
1	FA	2:DA	O3'	3:DG	P	1.76
1	FA	5:DA	O3'	6:DG	P	1.76
1	FA	17:DA	O3'	18:DG	P	1.76
1	FC	4:DT	O3'	5:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	FD	1:DA	O3'	2:DG	P	1.76
1	FD	36:DT	O3'	37:DG	P	1.76
1	FD	39:DA	O3'	40:DG	P	1.76
1	G1	4:DT	O3'	5:DG	P	1.76
1	G2	21:DA	O3'	22:DG	P	1.76
1	G5	6:DA	O3'	7:DG	P	1.76
1	G5	15:DA	O3'	16:DG	P	1.76
1	G5	21:DA	O3'	22:DG	P	1.76
1	G5	23:DT	O3'	24:DG	P	1.76
1	G6	20:DT	O3'	21:DG	P	1.76
1	G6	28:DT	O3'	29:DG	P	1.76
1	G6	32:DT	O3'	33:DG	P	1.76
1	G6	34:DT	O3'	35:DG	P	1.76
1	G7	23:DA	O3'	24:DG	P	1.76
1	G7	25:DT	O3'	26:DG	P	1.76
1	G8	2:DT	O3'	3:DG	P	1.76
1	G8	5:DA	O3'	6:DG	P	1.76
1	G8	17:DT	O3'	18:DG	P	1.76
1	G9	16:DT	O3'	17:DG	P	1.76
1	GC	20:DT	O3'	21:DG	P	1.76
1	GD	18:DA	O3'	19:DG	P	1.76
1	H1	5:DT	O3'	6:DG	P	1.76
1	H2	35:DA	O3'	36:DG	P	1.76
1	H2	37:DT	O3'	38:DG	P	1.76
1	H2	42:DA	O3'	43:DG	P	1.76
1	H2	46:DT	O3'	47:DG	P	1.76
1	H2	53:DA	O3'	54:DG	P	1.76
1	H3	4:DT	O3'	5:DG	P	1.76
1	H3	10:DA	O3'	11:DG	P	1.76
1	H3	18:DT	O3'	19:DG	P	1.76
1	H3	29:DA	O3'	30:DG	P	1.76
1	H5	8:DT	O3'	9:DG	P	1.76
1	H5	13:DA	O3'	14:DG	P	1.76
1	H5	19:DT	O3'	20:DG	P	1.76
1	H6	15:DA	O3'	16:DG	P	1.76
1	H6	20:DT	O3'	21:DG	P	1.76
1	H6	25:DT	O3'	26:DG	P	1.76
1	H6	30:DA	O3'	31:DG	P	1.76
1	H7	10:DT	O3'	11:DG	P	1.76
1	H8	20:DA	O3'	21:DG	P	1.76
1	H9	9:DT	O3'	10:DG	P	1.76
1	H9	13:DT	O3'	14:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	HC	6:DT	O3'	7:DG	P	1.76
1	HC	20:DT	O3'	21:DG	P	1.76
1	HC	26:DA	O3'	27:DG	P	1.76
1	HD	14:DT	O3'	15:DG	P	1.76
1	I1	12:DA	O3'	13:DG	P	1.76
1	I2	23:DA	O3'	24:DG	P	1.76
1	I2	37:DT	O3'	38:DG	P	1.76
1	I3	16:DA	O3'	17:DG	P	1.76
1	I3	42:DT	O3'	43:DG	P	1.76
1	I3	54:DT	O3'	55:DG	P	1.76
1	I5	17:DT	O3'	18:DG	P	1.76
1	I5	21:DA	O3'	22:DG	P	1.76
1	I5	41:DA	O3'	42:DG	P	1.76
1	I6	2:DT	O3'	3:DG	P	1.76
1	I6	9:DT	O3'	10:DG	P	1.76
1	I7	13:DT	O3'	14:DG	P	1.76
1	I7	29:DT	O3'	30:DG	P	1.76
1	I8	36:DA	O3'	37:DG	P	1.76
1	I8	43:DT	O3'	44:DG	P	1.76
1	I9	13:DT	O3'	14:DG	P	1.76
1	I9	19:DT	O3'	20:DG	P	1.76
1	IA	22:DA	O3'	23:DG	P	1.76
1	IC	12:DT	O3'	13:DG	P	1.76
1	IC	24:DT	O3'	25:DG	P	1.76
1	ID	1:DT	O3'	2:DG	P	1.76
1	ID	3:DA	O3'	4:DG	P	1.76
1	ID	16:DT	O3'	17:DG	P	1.76
1	ID	20:DA	O3'	21:DG	P	1.76
1	ID	22:DA	O3'	23:DG	P	1.76
1	ID	25:DA	O3'	26:DG	P	1.76
1	ID	29:DA	O3'	30:DG	P	1.76
1	J1	12:DT	O3'	13:DG	P	1.76
1	J2	2:DA	O3'	3:DG	P	1.76
1	J2	20:DT	O3'	21:DG	P	1.76
1	J5	11:DT	O3'	12:DG	P	1.76
1	J6	11:DT	O3'	12:DG	P	1.76
1	J6	42:DT	O3'	43:DG	P	1.76
1	J7	4:DT	O3'	5:DG	P	1.76
1	J7	6:DA	O3'	7:DG	P	1.76
1	J7	10:DA	O3'	11:DG	P	1.76
1	J7	19:DT	O3'	20:DG	P	1.76
1	J7	29:DT	O3'	30:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	J7	52:DT	O3'	53:DG	P	1.76
1	J7	54:DA	O3'	55:DG	P	1.76
1	J8	10:DA	O3'	11:DG	P	1.76
1	J8	24:DT	O3'	25:DG	P	1.76
1	J8	39:DT	O3'	40:DG	P	1.76
1	J8	48:DT	O3'	49:DG	P	1.76
1	J8	52:DA	O3'	53:DG	P	1.76
1	JC	11:DA	O3'	12:DG	P	1.76
1	JD	2:DA	O3'	3:DG	P	1.76
1	JD	29:DT	O3'	30:DG	P	1.76
1	JD	37:DA	O3'	38:DG	P	1.76
1	K1	15:DA	O3'	16:DG	P	1.76
1	K1	30:DA	O3'	31:DG	P	1.76
1	K1	43:DT	O3'	44:DG	P	1.76
1	K2	14:DT	O3'	15:DG	P	1.76
1	K2	26:DT	O3'	27:DG	P	1.76
1	K3	9:DA	O3'	10:DG	P	1.76
1	K5	16:DT	O3'	17:DG	P	1.76
1	K5	26:DT	O3'	27:DG	P	1.76
1	K5	31:DT	O3'	32:DG	P	1.76
1	K6	8:DT	O3'	9:DG	P	1.76
1	K6	17:DT	O3'	18:DG	P	1.76
1	K7	2:DA	O3'	3:DG	P	1.76
1	K7	12:DA	O3'	13:DG	P	1.76
1	K7	20:DT	O3'	21:DG	P	1.76
1	K7	26:DT	O3'	27:DG	P	1.76
1	K7	34:DT	O3'	35:DG	P	1.76
1	K7	38:DT	O3'	39:DG	P	1.76
1	K8	5:DT	O3'	6:DG	P	1.76
1	K9	19:DT	O3'	20:DG	P	1.76
1	K9	26:DT	O3'	27:DG	P	1.76
1	KA	4:DT	O3'	5:DG	P	1.76
1	KA	26:DA	O3'	27:DG	P	1.76
1	KA	43:DT	O3'	44:DG	P	1.76
1	KC	15:DT	O3'	16:DG	P	1.76
1	KC	17:DA	O3'	18:DG	P	1.76
1	KD	5:DT	O3'	6:DG	P	1.76
1	KD	18:DA	O3'	19:DG	P	1.76
1	KD	22:DT	O3'	23:DG	P	1.76
1	L1	1:DT	O3'	2:DG	P	1.76
1	L1	9:DA	O3'	10:DG	P	1.76
1	L1	11:DA	O3'	12:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	L1	24:DT	O3'	25:DG	P	1.76
1	L1	47:DT	O3'	48:DG	P	1.76
1	L2	23:DT	O3'	24:DG	P	1.76
1	L2	44:DA	O3'	45:DG	P	1.76
1	L2	47:DA	O3'	48:DG	P	1.76
1	L2	50:DA	O3'	51:DG	P	1.76
1	L3	3:DA	O3'	4:DG	P	1.76
1	L5	9:DT	O3'	10:DG	P	1.76
1	L5	15:DA	O3'	16:DG	P	1.76
1	L5	22:DA	O3'	23:DG	P	1.76
1	L6	5:DT	O3'	6:DG	P	1.76
1	L7	5:DA	O3'	6:DG	P	1.76
1	L7	33:DA	O3'	34:DG	P	1.76
1	L7	54:DT	O3'	55:DG	P	1.76
1	L9	10:DA	O3'	11:DG	P	1.76
1	LA	1:DT	O3'	2:DG	P	1.76
1	LA	5:DT	O3'	6:DG	P	1.76
1	LC	9:DA	O3'	10:DG	P	1.76
1	LC	11:DT	O3'	12:DG	P	1.76
1	M2	5:DT	O3'	6:DG	P	1.76
1	M3	4:DA	O3'	5:DG	P	1.76
1	M3	16:DT	O3'	17:DG	P	1.76
1	M5	15:DT	O3'	16:DG	P	1.76
1	M5	31:DT	O3'	32:DG	P	1.76
1	M6	3:DA	O3'	4:DG	P	1.76
1	M7	12:DA	O3'	13:DG	P	1.76
1	M7	21:DT	O3'	22:DG	P	1.76
1	M8	14:DT	O3'	15:DG	P	1.76
1	M8	20:DT	O3'	21:DG	P	1.76
1	M9	20:DA	O3'	21:DG	P	1.76
1	MA	33:DT	O3'	34:DG	P	1.76
1	MC	11:DT	O3'	12:DG	P	1.76
1	MD	23:DA	O3'	24:DG	P	1.76
1	MD	45:DT	O3'	46:DG	P	1.76
1	MD	52:DA	O3'	53:DG	P	1.76
1	N2	13:DA	O3'	14:DG	P	1.76
1	N5	28:DA	O3'	29:DG	P	1.76
1	N5	34:DT	O3'	35:DG	P	1.76
1	N6	1:DT	O3'	2:DG	P	1.76
1	N6	25:DT	O3'	26:DG	P	1.76
1	N8	14:DT	O3'	15:DG	P	1.76
1	N9	1:DT	O3'	2:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	N9	11:DT	O3'	12:DG	P	1.76
1	N9	22:DA	O3'	23:DG	P	1.76
1	N9	28:DT	O3'	29:DG	P	1.76
1	N9	37:DA	O3'	38:DG	P	1.76
1	N9	46:DT	O3'	47:DG	P	1.76
1	NA	20:DA	O3'	21:DG	P	1.76
1	NC	3:DT	O3'	4:DG	P	1.76
1	NC	20:DT	O3'	21:DG	P	1.76
1	NC	29:DA	O3'	30:DG	P	1.76
1	NC	33:DT	O3'	34:DG	P	1.76
1	ND	6:DA	O3'	7:DG	P	1.76
1	O2	9:DT	O3'	10:DG	P	1.76
1	O2	25:DT	O3'	26:DG	P	1.76
1	O2	58:DA	O3'	59:DG	P	1.76
1	O3	11:DA	O3'	12:DG	P	1.76
1	O5	52:DT	O3'	53:DG	P	1.76
1	O6	19:DA	O3'	20:DG	P	1.76
1	O7	7:DA	O3'	8:DG	P	1.76
1	O7	15:DT	O3'	16:DG	P	1.76
1	O7	25:DT	O3'	26:DG	P	1.76
1	O8	5:DT	O3'	6:DG	P	1.76
1	O8	8:DA	O3'	9:DG	P	1.76
1	O8	22:DT	O3'	23:DG	P	1.76
1	O8	52:DA	O3'	53:DG	P	1.76
1	O8	56:DA	O3'	57:DG	P	1.76
1	OC	25:DA	O3'	26:DG	P	1.76
1	OD	5:DA	O3'	6:DG	P	1.76
1	OD	31:DT	O3'	32:DG	P	1.76
1	OD	34:DT	O3'	35:DG	P	1.76
1	OD	54:DA	O3'	55:DG	P	1.76
1	P2	5:DT	O3'	6:DG	P	1.76
1	P2	27:DA	O3'	28:DG	P	1.76
1	P3	28:DA	O3'	29:DG	P	1.76
1	P6	15:DA	O3'	16:DG	P	1.76
1	P6	17:DA	O3'	18:DG	P	1.76
1	P7	16:DA	O3'	17:DG	P	1.76
1	P9	14:DT	O3'	15:DG	P	1.76
1	P9	27:DT	O3'	28:DG	P	1.76
1	PA	17:DT	O3'	18:DG	P	1.76
1	PC	9:DT	O3'	10:DG	P	1.76
1	PC	13:DT	O3'	14:DG	P	1.76
1	PC	18:DT	O3'	19:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	PC	22:DT	O3'	23:DG	P	1.76
1	PD	7:DT	O3'	8:DG	P	1.76
1	Q3	21:DT	O3'	22:DG	P	1.76
1	Q5	23:DT	O3'	24:DG	P	1.76
1	Q5	27:DT	O3'	28:DG	P	1.76
1	Q7	20:DT	O3'	21:DG	P	1.76
1	Q8	9:DT	O3'	10:DG	P	1.76
1	Q9	19:DA	O3'	20:DG	P	1.76
1	QA	10:DT	O3'	11:DG	P	1.76
1	QA	13:DA	O3'	14:DG	P	1.76
1	QD	13:DT	O3'	14:DG	P	1.76
1	R3	10:DA	O3'	11:DG	P	1.76
1	R5	3:DA	O3'	4:DG	P	1.76
1	R5	13:DT	O3'	14:DG	P	1.76
1	R5	17:DA	O3'	18:DG	P	1.76
1	R5	22:DA	O3'	23:DG	P	1.76
1	R5	24:DT	O3'	25:DG	P	1.76
1	R5	26:DA	O3'	27:DG	P	1.76
1	R5	36:DA	O3'	37:DG	P	1.76
1	R7	4:DT	O3'	5:DG	P	1.76
1	R7	12:DT	O3'	13:DG	P	1.76
1	R7	27:DT	O3'	28:DG	P	1.76
1	R8	26:DT	O3'	27:DG	P	1.76
1	R8	30:DA	O3'	31:DG	P	1.76
1	R9	7:DT	O3'	8:DG	P	1.76
1	R9	12:DA	O3'	13:DG	P	1.76
1	R9	27:DA	O3'	28:DG	P	1.76
1	RC	6:DA	O3'	7:DG	P	1.76
1	RC	32:DT	O3'	33:DG	P	1.76
1	S2	13:DA	O3'	14:DG	P	1.76
1	S2	17:DA	O3'	18:DG	P	1.76
1	S2	28:DT	O3'	29:DG	P	1.76
1	S3	4:DT	O3'	5:DG	P	1.76
1	S7	9:DT	O3'	10:DG	P	1.76
1	S7	22:DT	O3'	23:DG	P	1.76
1	S8	7:DT	O3'	8:DG	P	1.76
1	S8	26:DT	O3'	27:DG	P	1.76
1	S9	17:DT	O3'	18:DG	P	1.76
1	SA	10:DT	O3'	11:DG	P	1.76
1	SC	4:DT	O3'	5:DG	P	1.76
1	SC	10:DA	O3'	11:DG	P	1.76
1	SD	9:DA	O3'	10:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	T2	25:DA	O3'	26:DG	P	1.76
1	T3	16:DT	O3'	17:DG	P	1.76
1	T3	19:DT	O3'	20:DG	P	1.76
1	T3	37:DA	O3'	38:DG	P	1.76
1	T5	21:DA	O3'	22:DG	P	1.76
1	T7	4:DT	O3'	5:DG	P	1.76
1	T7	6:DA	O3'	7:DG	P	1.76
1	T7	8:DA	O3'	9:DG	P	1.76
1	T7	11:DT	O3'	12:DG	P	1.76
1	T7	14:DT	O3'	15:DG	P	1.76
1	T7	22:DA	O3'	23:DG	P	1.76
1	T7	35:DA	O3'	36:DG	P	1.76
1	T7	37:DA	O3'	38:DG	P	1.76
1	T7	49:DA	O3'	50:DG	P	1.76
1	T8	6:DT	O3'	7:DG	P	1.76
1	T8	8:DT	O3'	9:DG	P	1.76
1	T8	18:DT	O3'	19:DG	P	1.76
1	TA	26:DA	O3'	27:DG	P	1.76
1	TD	12:DA	O3'	13:DG	P	1.76
1	TD	16:DT	O3'	17:DG	P	1.76
1	TD	22:DT	O3'	23:DG	P	1.76
1	U2	9:DT	O3'	10:DG	P	1.76
1	U2	12:DA	O3'	13:DG	P	1.76
1	U3	9:DA	O3'	10:DG	P	1.76
1	U3	15:DT	O3'	16:DG	P	1.76
1	U5	29:DA	O3'	30:DG	P	1.76
1	U7	13:DT	O3'	14:DG	P	1.76
1	U7	20:DT	O3'	21:DG	P	1.76
1	U7	22:DT	O3'	23:DG	P	1.76
1	U8	23:DT	O3'	24:DG	P	1.76
1	U9	6:DA	O3'	7:DG	P	1.76
1	U9	10:DA	O3'	11:DG	P	1.76
1	U9	27:DT	O3'	28:DG	P	1.76
1	UA	4:DT	O3'	5:DG	P	1.76
1	UA	12:DA	O3'	13:DG	P	1.76
1	UA	17:DT	O3'	18:DG	P	1.76
1	UC	7:DT	O3'	8:DG	P	1.76
1	UC	12:DT	O3'	13:DG	P	1.76
1	UC	17:DA	O3'	18:DG	P	1.76
1	V3	9:DT	O3'	10:DG	P	1.76
1	V3	20:DT	O3'	21:DG	P	1.76
1	V3	23:DT	O3'	24:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	V5	8:DA	O3'	9:DG	P	1.76
1	V5	12:DT	O3'	13:DG	P	1.76
1	V5	31:DA	O3'	32:DG	P	1.76
1	V7	20:DA	O3'	21:DG	P	1.76
1	V8	19:DA	O3'	20:DG	P	1.76
1	V9	3:DT	O3'	4:DG	P	1.76
1	V9	14:DA	O3'	15:DG	P	1.76
1	V9	27:DT	O3'	28:DG	P	1.76
1	VA	10:DT	O3'	11:DG	P	1.76
1	VC	8:DT	O3'	9:DG	P	1.76
1	W3	8:DT	O3'	9:DG	P	1.76
1	W3	12:DT	O3'	13:DG	P	1.76
1	W3	18:DA	O3'	19:DG	P	1.76
1	W3	47:DA	O3'	48:DG	P	1.76
1	W5	22:DA	O3'	23:DG	P	1.76
1	W7	5:DT	O3'	6:DG	P	1.76
1	W7	11:DT	O3'	12:DG	P	1.76
1	W8	12:DA	O3'	13:DG	P	1.76
1	W8	20:DT	O3'	21:DG	P	1.76
1	W9	11:DT	O3'	12:DG	P	1.76
1	X5	8:DT	O3'	9:DG	P	1.76
1	X9	6:DT	O3'	7:DG	P	1.76
1	X9	9:DT	O3'	10:DG	P	1.76
1	X9	48:DA	O3'	49:DG	P	1.76
1	A1	50:DC	O3'	51:DT	P	1.75
1	A2	14:DC	O3'	15:DT	P	1.75
1	A2	21:DC	O3'	22:DT	P	1.75
1	A4	6:DC	O3'	7:DA	P	1.75
1	A4	17:DC	O3'	18:DA	P	1.75
1	A5	32:DC	O3'	33:DT	P	1.75
1	A6	14:DC	O3'	15:DT	P	1.75
1	A8	22:DC	O3'	23:DT	P	1.75
1	AA	5:DC	O3'	6:DA	P	1.75
1	AB	48:DC	O3'	49:DT	P	1.75
1	AB	62:DC	O3'	63:DT	P	1.75
1	AB	91:DC	O3'	92:DT	P	1.75
1	AB	115:DC	O3'	116:DT	P	1.75
1	AB	175:DC	O3'	176:DT	P	1.75
1	AB	187:DC	O3'	188:DT	P	1.75
1	AB	191:DC	O3'	192:DT	P	1.75
1	AB	196:DC	O3'	197:DT	P	1.75
1	AB	200:DC	O3'	201:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	205:DC	O3'	206:DT	P	1.75
1	AB	211:DC	O3'	212:DT	P	1.75
1	AB	256:DC	O3'	257:DT	P	1.75
1	AB	280:DC	O3'	281:DT	P	1.75
1	AB	299:DC	O3'	300:DT	P	1.75
1	AB	312:DC	O3'	313:DT	P	1.75
1	AB	322:DC	O3'	323:DT	P	1.75
1	AB	343:DC	O3'	344:DT	P	1.75
1	AB	379:DC	O3'	380:DT	P	1.75
1	AB	387:DC	O3'	388:DT	P	1.75
1	AB	391:DC	O3'	392:DT	P	1.75
1	AB	397:DC	O3'	398:DT	P	1.75
1	AB	416:DC	O3'	417:DT	P	1.75
1	AB	418:DC	O3'	419:DT	P	1.75
1	AB	433:DC	O3'	434:DT	P	1.75
1	AB	448:DC	O3'	449:DT	P	1.75
1	AB	472:DC	O3'	473:DT	P	1.75
1	AB	519:DC	O3'	520:DT	P	1.75
1	AB	529:DC	O3'	530:DT	P	1.75
1	AB	538:DC	O3'	539:DT	P	1.75
1	AB	544:DC	O3'	545:DT	P	1.75
1	AB	559:DC	O3'	560:DT	P	1.75
1	AB	565:DC	O3'	566:DT	P	1.75
1	AB	571:DC	O3'	572:DT	P	1.75
1	AB	574:DC	O3'	575:DT	P	1.75
1	AB	576:DC	O3'	577:DT	P	1.75
1	AB	586:DC	O3'	587:DT	P	1.75
1	AB	592:DC	O3'	593:DT	P	1.75
1	AB	594:DC	O3'	595:DT	P	1.75
1	AB	601:DC	O3'	602:DT	P	1.75
1	AB	649:DC	O3'	650:DT	P	1.75
1	AB	664:DC	O3'	665:DT	P	1.75
1	AB	670:DC	O3'	671:DT	P	1.75
1	AB	679:DC	O3'	680:DT	P	1.75
1	AB	694:DC	O3'	695:DT	P	1.75
1	AB	709:DC	O3'	710:DT	P	1.75
1	AB	712:DC	O3'	713:DT	P	1.75
1	AB	739:DC	O3'	740:DT	P	1.75
1	AB	743:DC	O3'	744:DT	P	1.75
1	AB	778:DC	O3'	779:DT	P	1.75
1	AB	782:DC	O3'	783:DT	P	1.75
1	AB	826:DC	O3'	827:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	831:DC	O3'	832:DT	P	1.75
1	AB	835:DC	O3'	836:DT	P	1.75
1	AB	841:DC	O3'	842:DT	P	1.75
1	AB	844:DC	O3'	845:DT	P	1.75
1	AB	853:DC	O3'	854:DT	P	1.75
1	AB	863:DC	O3'	864:DT	P	1.75
1	AB	904:DC	O3'	905:DT	P	1.75
1	AB	919:DC	O3'	920:DT	P	1.75
1	AB	932:DC	O3'	933:DT	P	1.75
1	AB	934:DC	O3'	935:DT	P	1.75
1	AB	959:DC	O3'	960:DT	P	1.75
1	AB	961:DC	O3'	962:DT	P	1.75
1	AB	1012:DC	O3'	1013:DT	P	1.75
1	AB	1041:DC	O3'	1042:DT	P	1.75
1	AB	1048:DC	O3'	1049:DT	P	1.75
1	AB	1054:DC	O3'	1055:DT	P	1.75
1	AB	1065:DC	O3'	1066:DT	P	1.75
1	AB	1072:DC	O3'	1073:DT	P	1.75
1	AB	1081:DC	O3'	1082:DT	P	1.75
1	AB	1093:DC	O3'	1094:DT	P	1.75
1	AB	1096:DC	O3'	1097:DT	P	1.75
1	AB	1128:DC	O3'	1129:DT	P	1.75
1	AB	1132:DC	O3'	1133:DT	P	1.75
1	AB	1147:DC	O3'	1148:DT	P	1.75
1	AB	1150:DC	O3'	1151:DT	P	1.75
1	AB	1162:DC	O3'	1163:DT	P	1.75
1	AB	1166:DC	O3'	1167:DT	P	1.75
1	AB	1183:DC	O3'	1184:DT	P	1.75
1	AB	1240:DC	O3'	1241:DT	P	1.75
1	AB	1245:DC	O3'	1246:DT	P	1.75
1	AB	1249:DC	O3'	1250:DT	P	1.75
1	AB	1285:DC	O3'	1286:DT	P	1.75
1	AB	1306:DC	O3'	1307:DT	P	1.75
1	AB	1328:DC	O3'	1329:DT	P	1.75
1	AB	1353:DC	O3'	1354:DT	P	1.75
1	AB	1370:DC	O3'	1371:DT	P	1.75
1	AB	1387:DC	O3'	1388:DT	P	1.75
1	AB	1396:DC	O3'	1397:DT	P	1.75
1	AB	1404:DC	O3'	1405:DT	P	1.75
1	AB	1420:DC	O3'	1421:DT	P	1.75
1	AB	1436:DC	O3'	1437:DT	P	1.75
1	AB	1478:DC	O3'	1479:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	1495:DC	O3'	1496:DT	P	1.75
1	AB	1499:DC	O3'	1500:DT	P	1.75
1	AB	1502:DC	O3'	1503:DT	P	1.75
1	AB	1506:DC	O3'	1507:DT	P	1.75
1	AB	1511:DC	O3'	1512:DT	P	1.75
1	AB	1522:DC	O3'	1523:DT	P	1.75
1	AB	1536:DC	O3'	1537:DT	P	1.75
1	AB	1542:DC	O3'	1543:DT	P	1.75
1	AB	1556:DC	O3'	1557:DT	P	1.75
1	AB	1560:DC	O3'	1561:DT	P	1.75
1	AB	1562:DC	O3'	1563:DT	P	1.75
1	AB	1574:DC	O3'	1575:DT	P	1.75
1	AB	1579:DC	O3'	1580:DT	P	1.75
1	AB	1598:DC	O3'	1599:DT	P	1.75
1	AB	1602:DC	O3'	1603:DT	P	1.75
1	AB	1626:DC	O3'	1627:DT	P	1.75
1	AB	1670:DC	O3'	1671:DT	P	1.75
1	AB	1675:DC	O3'	1676:DT	P	1.75
1	AB	1691:DC	O3'	1692:DT	P	1.75
1	AB	1693:DC	O3'	1694:DT	P	1.75
1	AB	1695:DC	O3'	1696:DT	P	1.75
1	AB	1704:DC	O3'	1705:DT	P	1.75
1	AB	1771:DC	O3'	1772:DT	P	1.75
1	AB	1799:DC	O3'	1800:DT	P	1.75
1	AB	1801:DC	O3'	1802:DT	P	1.75
1	AB	1812:DC	O3'	1813:DT	P	1.75
1	AB	1849:DC	O3'	1850:DT	P	1.75
1	AB	1872:DC	O3'	1873:DT	P	1.75
1	AB	1884:DC	O3'	1885:DT	P	1.75
1	AB	1893:DC	O3'	1894:DT	P	1.75
1	AB	1915:DC	O3'	1916:DT	P	1.75
1	AB	1932:DC	O3'	1933:DT	P	1.75
1	AB	1951:DC	O3'	1952:DT	P	1.75
1	AB	1954:DC	O3'	1955:DT	P	1.75
1	AB	1960:DC	O3'	1961:DT	P	1.75
1	AB	1968:DC	O3'	1969:DT	P	1.75
1	AB	1972:DC	O3'	1973:DT	P	1.75
1	AB	1994:DC	O3'	1995:DT	P	1.75
1	AB	2015:DC	O3'	2016:DT	P	1.75
1	AB	2025:DC	O3'	2026:DT	P	1.75
1	AB	2041:DC	O3'	2042:DT	P	1.75
1	AB	2059:DC	O3'	2060:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	2100:DC	O3'	2101:DT	P	1.75
1	AB	2107:DC	O3'	2108:DT	P	1.75
1	AB	2147:DC	O3'	2148:DT	P	1.75
1	AB	2176:DC	O3'	2177:DT	P	1.75
1	AB	2185:DC	O3'	2186:DT	P	1.75
1	AB	2211:DC	O3'	2212:DT	P	1.75
1	AB	2264:DC	O3'	2265:DT	P	1.75
1	AB	2281:DC	O3'	2282:DT	P	1.75
1	AB	2332:DC	O3'	2333:DT	P	1.75
1	AB	2353:DC	O3'	2354:DT	P	1.75
1	AB	2383:DC	O3'	2384:DT	P	1.75
1	AB	2425:DC	O3'	2426:DT	P	1.75
1	AB	2437:DC	O3'	2438:DT	P	1.75
1	AB	2497:DC	O3'	2498:DT	P	1.75
1	AB	2521:DC	O3'	2522:DT	P	1.75
1	AB	2529:DC	O3'	2530:DT	P	1.75
1	AB	2535:DC	O3'	2536:DT	P	1.75
1	AB	2584:DC	O3'	2585:DT	P	1.75
1	AB	2611:DC	O3'	2612:DT	P	1.75
1	AB	2618:DC	O3'	2619:DT	P	1.75
1	AB	2645:DC	O3'	2646:DT	P	1.75
1	AB	2650:DC	O3'	2651:DT	P	1.75
1	AB	2669:DC	O3'	2670:DT	P	1.75
1	AB	2675:DC	O3'	2676:DT	P	1.75
1	AB	2692:DC	O3'	2693:DT	P	1.75
1	AB	2742:DC	O3'	2743:DT	P	1.75
1	AB	2823:DC	O3'	2824:DT	P	1.75
1	AB	2843:DC	O3'	2844:DT	P	1.75
1	AB	2846:DC	O3'	2847:DT	P	1.75
1	AB	2852:DC	O3'	2853:DT	P	1.75
1	AB	2897:DC	O3'	2898:DT	P	1.75
1	AB	2960:DC	O3'	2961:DT	P	1.75
1	AB	2972:DC	O3'	2973:DT	P	1.75
1	AB	2984:DC	O3'	2985:DT	P	1.75
1	AB	2992:DC	O3'	2993:DT	P	1.75
1	AB	3003:DC	O3'	3004:DT	P	1.75
1	AB	3011:DC	O3'	3012:DT	P	1.75
1	AB	3143:DC	O3'	3144:DT	P	1.75
1	AB	3146:DC	O3'	3147:DT	P	1.75
1	AB	3149:DC	O3'	3150:DT	P	1.75
1	AB	3159:DC	O3'	3160:DT	P	1.75
1	AB	3185:DC	O3'	3186:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	3191:DC	O3'	3192:DT	P	1.75
1	AB	3260:DC	O3'	3261:DT	P	1.75
1	AB	3284:DC	O3'	3285:DT	P	1.75
1	AB	3294:DC	O3'	3295:DT	P	1.75
1	AB	3296:DC	O3'	3297:DT	P	1.75
1	AB	3301:DC	O3'	3302:DT	P	1.75
1	AB	3317:DC	O3'	3318:DT	P	1.75
1	AB	3320:DC	O3'	3321:DT	P	1.75
1	AB	3340:DC	O3'	3341:DT	P	1.75
1	AB	3344:DC	O3'	3345:DT	P	1.75
1	AB	3352:DC	O3'	3353:DT	P	1.75
1	AB	3359:DC	O3'	3360:DT	P	1.75
1	AB	3425:DC	O3'	3426:DT	P	1.75
1	AB	3443:DC	O3'	3444:DT	P	1.75
1	AB	3446:DC	O3'	3447:DT	P	1.75
1	AB	3450:DC	O3'	3451:DT	P	1.75
1	AB	3452:DC	O3'	3453:DT	P	1.75
1	AB	3464:DC	O3'	3465:DT	P	1.75
1	AB	3485:DC	O3'	3486:DT	P	1.75
1	AB	3493:DC	O3'	3494:DT	P	1.75
1	AB	3498:DC	O3'	3499:DT	P	1.75
1	AB	3500:DC	O3'	3501:DT	P	1.75
1	AB	3509:DC	O3'	3510:DT	P	1.75
1	AB	3512:DC	O3'	3513:DT	P	1.75
1	AB	3515:DC	O3'	3516:DT	P	1.75
1	AB	3556:DC	O3'	3557:DT	P	1.75
1	AB	3616:DC	O3'	3617:DT	P	1.75
1	AB	3622:DC	O3'	3623:DT	P	1.75
1	AB	3645:DC	O3'	3646:DT	P	1.75
1	AB	3647:DC	O3'	3648:DT	P	1.75
1	AB	3674:DC	O3'	3675:DT	P	1.75
1	AB	3686:DC	O3'	3687:DT	P	1.75
1	AB	3695:DC	O3'	3696:DT	P	1.75
1	AB	3764:DC	O3'	3765:DT	P	1.75
1	AB	3776:DC	O3'	3777:DT	P	1.75
1	AB	3793:DC	O3'	3794:DT	P	1.75
1	AB	3827:DC	O3'	3828:DT	P	1.75
1	AB	3830:DC	O3'	3831:DT	P	1.75
1	AB	3833:DC	O3'	3834:DT	P	1.75
1	AB	3854:DC	O3'	3855:DT	P	1.75
1	AB	3872:DC	O3'	3873:DT	P	1.75
1	AB	3902:DC	O3'	3903:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	3904:DC	O3'	3905:DT	P	1.75
1	AB	3923:DC	O3'	3924:DT	P	1.75
1	AB	3938:DC	O3'	3939:DT	P	1.75
1	AB	3941:DC	O3'	3942:DT	P	1.75
1	AB	3950:DC	O3'	3951:DT	P	1.75
1	AB	3977:DC	O3'	3978:DT	P	1.75
1	AB	3988:DC	O3'	3989:DT	P	1.75
1	AB	3991:DC	O3'	3992:DT	P	1.75
1	AB	3999:DC	O3'	4000:DT	P	1.75
1	AB	4005:DC	O3'	4006:DT	P	1.75
1	AB	4007:DC	O3'	4008:DT	P	1.75
1	AB	4066:DC	O3'	4067:DT	P	1.75
1	AB	4119:DC	O3'	4120:DT	P	1.75
1	AB	4124:DC	O3'	4125:DT	P	1.75
1	AB	4136:DC	O3'	4137:DT	P	1.75
1	AB	4146:DC	O3'	4147:DT	P	1.75
1	AB	4149:DC	O3'	4150:DT	P	1.75
1	AB	4155:DC	O3'	4156:DT	P	1.75
1	AB	4172:DC	O3'	4173:DT	P	1.75
1	AB	4189:DC	O3'	4190:DT	P	1.75
1	AB	4242:DC	O3'	4243:DT	P	1.75
1	AB	4253:DC	O3'	4254:DT	P	1.75
1	AB	4268:DC	O3'	4269:DT	P	1.75
1	AB	4287:DC	O3'	4288:DA	P	1.75
1	AB	4325:DC	O3'	4326:DT	P	1.75
1	AB	4360:DC	O3'	4361:DT	P	1.75
1	AB	4373:DC	O3'	4374:DT	P	1.75
1	AB	4384:DC	O3'	4385:DT	P	1.75
1	AB	4395:DC	O3'	4396:DT	P	1.75
1	AB	4401:DC	O3'	4402:DT	P	1.75
1	AB	4464:DC	O3'	4465:DT	P	1.75
1	AB	4467:DC	O3'	4468:DT	P	1.75
1	AB	4494:DC	O3'	4495:DT	P	1.75
1	AB	4500:DC	O3'	4501:DT	P	1.75
1	AB	4502:DC	O3'	4503:DT	P	1.75
1	AB	4533:DC	O3'	4534:DT	P	1.75
1	AB	4544:DC	O3'	4545:DT	P	1.75
1	AB	4548:DC	O3'	4549:DT	P	1.75
1	AB	4592:DC	O3'	4593:DT	P	1.75
1	AB	4594:DC	O3'	4595:DT	P	1.75
1	AB	4626:DC	O3'	4627:DT	P	1.75
1	AB	4647:DC	O3'	4648:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	4690:DC	O3'	4691:DT	P	1.75
1	AB	4712:DC	O3'	4713:DT	P	1.75
1	AB	4719:DC	O3'	4720:DT	P	1.75
1	AB	4726:DC	O3'	4727:DT	P	1.75
1	AB	4733:DC	O3'	4734:DT	P	1.75
1	AB	4829:DC	O3'	4830:DT	P	1.75
1	AB	4855:DC	O3'	4856:DT	P	1.75
1	AB	4862:DC	O3'	4863:DT	P	1.75
1	AB	4922:DC	O3'	4923:DT	P	1.75
1	AB	4938:DC	O3'	4939:DT	P	1.75
1	AB	4948:DC	O3'	4949:DT	P	1.75
1	AB	5003:DC	O3'	5004:DT	P	1.75
1	AB	5020:DC	O3'	5021:DT	P	1.75
1	AB	5063:DC	O3'	5064:DT	P	1.75
1	AB	5079:DC	O3'	5080:DT	P	1.75
1	AB	5091:DC	O3'	5092:DT	P	1.75
1	AB	5110:DC	O3'	5111:DT	P	1.75
1	AB	5140:DC	O3'	5141:DT	P	1.75
1	AB	5155:DC	O3'	5156:DT	P	1.75
1	AB	5212:DC	O3'	5213:DT	P	1.75
1	AB	5216:DC	O3'	5217:DT	P	1.75
1	AB	5239:DC	O3'	5240:DT	P	1.75
1	AB	5243:DC	O3'	5244:DT	P	1.75
1	AB	5302:DC	O3'	5303:DT	P	1.75
1	AB	5376:DC	O3'	5377:DT	P	1.75
1	AB	5380:DC	O3'	5381:DT	P	1.75
1	AB	5392:DC	O3'	5393:DT	P	1.75
1	AB	5397:DC	O3'	5398:DT	P	1.75
1	AB	5459:DC	O3'	5460:DT	P	1.75
1	AB	5461:DC	O3'	5462:DT	P	1.75
1	AB	5469:DC	O3'	5470:DT	P	1.75
1	AB	5491:DC	O3'	5492:DT	P	1.75
1	AB	5499:DC	O3'	5500:DT	P	1.75
1	AB	5509:DC	O3'	5510:DT	P	1.75
1	AB	5511:DC	O3'	5512:DT	P	1.75
1	AB	5522:DC	O3'	5523:DT	P	1.75
1	AB	5527:DC	O3'	5528:DT	P	1.75
1	AB	5529:DC	O3'	5530:DT	P	1.75
1	AB	5585:DC	O3'	5586:DT	P	1.75
1	AB	5589:DC	O3'	5590:DT	P	1.75
1	AB	5596:DC	O3'	5597:DT	P	1.75
1	AB	5600:DC	O3'	5601:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	5606:DC	O3'	5607:DT	P	1.75
1	AB	5663:DC	O3'	5664:DT	P	1.75
1	AB	5696:DC	O3'	5697:DT	P	1.75
1	AB	5699:DC	O3'	5700:DT	P	1.75
1	AB	5783:DC	O3'	5784:DT	P	1.75
1	AB	5789:DC	O3'	5790:DT	P	1.75
1	AB	5795:DC	O3'	5796:DT	P	1.75
1	AB	5800:DC	O3'	5801:DT	P	1.75
1	AB	5828:DC	O3'	5829:DT	P	1.75
1	AB	5853:DC	O3'	5854:DT	P	1.75
1	AB	5861:DC	O3'	5862:DT	P	1.75
1	AB	5918:DC	O3'	5919:DT	P	1.75
1	AB	5930:DC	O3'	5931:DT	P	1.75
1	AB	5936:DC	O3'	5937:DT	P	1.75
1	AB	5939:DC	O3'	5940:DT	P	1.75
1	AB	5963:DC	O3'	5964:DT	P	1.75
1	AB	5981:DC	O3'	5982:DT	P	1.75
1	AB	5996:DC	O3'	5997:DT	P	1.75
1	AB	6051:DC	O3'	6052:DT	P	1.75
1	AB	6053:DC	O3'	6054:DT	P	1.75
1	AB	6075:DC	O3'	6076:DT	P	1.75
1	AB	6077:DC	O3'	6078:DT	P	1.75
1	AB	6103:DC	O3'	6104:DT	P	1.75
1	AB	6118:DC	O3'	6119:DT	P	1.75
1	AB	6131:DC	O3'	6132:DT	P	1.75
1	AB	6155:DC	O3'	6156:DT	P	1.75
1	AB	6182:DC	O3'	6183:DT	P	1.75
1	AB	6196:DC	O3'	6197:DT	P	1.75
1	AB	6219:DC	O3'	6220:DT	P	1.75
1	AB	6227:DC	O3'	6228:DT	P	1.75
1	AB	6231:DC	O3'	6232:DT	P	1.75
1	AB	6253:DC	O3'	6254:DT	P	1.75
1	AB	6276:DC	O3'	6277:DT	P	1.75
1	AB	6284:DC	O3'	6285:DT	P	1.75
1	AB	6350:DC	O3'	6351:DT	P	1.75
1	AB	6359:DC	O3'	6360:DT	P	1.75
1	AB	6383:DC	O3'	6384:DT	P	1.75
1	AB	6408:DC	O3'	6409:DT	P	1.75
1	AB	6410:DC	O3'	6411:DT	P	1.75
1	AB	6414:DC	O3'	6415:DT	P	1.75
1	AB	6470:DC	O3'	6471:DT	P	1.75
1	AB	6476:DC	O3'	6477:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	6486:DC	O3'	6487:DT	P	1.75
1	AB	6503:DC	O3'	6504:DT	P	1.75
1	AB	6527:DC	O3'	6528:DT	P	1.75
1	AB	6533:DC	O3'	6534:DT	P	1.75
1	AB	6547:DC	O3'	6548:DT	P	1.75
1	AB	6551:DC	O3'	6552:DT	P	1.75
1	AB	6555:DC	O3'	6556:DT	P	1.75
1	AB	6614:DC	O3'	6615:DT	P	1.75
1	AB	6637:DC	O3'	6638:DT	P	1.75
1	AB	6688:DC	O3'	6689:DT	P	1.75
1	AB	6712:DC	O3'	6713:DT	P	1.75
1	AB	6721:DC	O3'	6722:DT	P	1.75
1	AB	6736:DC	O3'	6737:DT	P	1.75
1	AB	6744:DC	O3'	6745:DT	P	1.75
1	AB	6756:DC	O3'	6757:DT	P	1.75
1	AB	6792:DC	O3'	6793:DT	P	1.75
1	AB	6797:DC	O3'	6798:DA	P	1.75
1	AB	6805:DC	O3'	6806:DT	P	1.75
1	AB	6807:DC	O3'	6808:DT	P	1.75
1	AB	6840:DC	O3'	6841:DT	P	1.75
1	AB	6860:DC	O3'	6861:DT	P	1.75
1	AB	6862:DC	O3'	6863:DT	P	1.75
1	AB	6888:DC	O3'	6889:DT	P	1.75
1	AB	6903:DC	O3'	6904:DT	P	1.75
1	AB	6909:DC	O3'	6910:DT	P	1.75
1	AB	6919:DC	O3'	6920:DT	P	1.75
1	AB	6978:DC	O3'	6979:DT	P	1.75
1	AB	7045:DC	O3'	7046:DT	P	1.75
1	AB	7052:DC	O3'	7053:DT	P	1.75
1	AB	7054:DC	O3'	7055:DT	P	1.75
1	AB	7074:DC	O3'	7075:DT	P	1.75
1	AB	7114:DC	O3'	7115:DT	P	1.75
1	AB	7118:DC	O3'	7119:DT	P	1.75
1	AB	7149:DC	O3'	7150:DT	P	1.75
1	AB	7166:DC	O3'	7167:DT	P	1.75
1	AB	7182:DC	O3'	7183:DT	P	1.75
1	AB	7188:DC	O3'	7189:DT	P	1.75
1	AB	7191:DC	O3'	7192:DT	P	1.75
1	AB	7219:DC	O3'	7220:DT	P	1.75
1	AB	7225:DC	O3'	7226:DT	P	1.75
1	AB	7229:DC	O3'	7230:DT	P	1.75
1	AB	7237:DC	O3'	7238:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B1	34:DC	O3'	35:DT	P	1.75
1	B4	20:DC	O3'	21:DT	P	1.75
1	B5	17:DC	O3'	18:DT	P	1.75
1	B7	19:DC	O3'	20:DA	P	1.75
1	B9	6:DC	O3'	7:DT	P	1.75
1	B9	20:DC	O3'	21:DT	P	1.75
1	BA	27:DC	O3'	28:DT	P	1.75
1	BC	31:DC	O3'	32:DT	P	1.75
1	C1	14:DC	O3'	15:DT	P	1.75
1	C2	12:DC	O3'	13:DT	P	1.75
1	C2	21:DC	O3'	22:DT	P	1.75
1	C5	23:DC	O3'	24:DT	P	1.75
1	C6	12:DC	O3'	13:DT	P	1.75
1	C6	26:DC	O3'	27:DT	P	1.75
1	C7	6:DC	O3'	7:DT	P	1.75
1	C7	17:DC	O3'	18:DT	P	1.75
1	C8	44:DC	O3'	45:DT	P	1.75
1	CA	15:DC	O3'	16:DT	P	1.75
1	CC	12:DC	O3'	13:DT	P	1.75
1	CC	15:DC	O3'	16:DT	P	1.75
1	D1	34:DC	O3'	35:DT	P	1.75
1	D1	37:DC	O3'	38:DT	P	1.75
1	D3	6:DC	O3'	7:DT	P	1.75
1	D6	6:DC	O3'	7:DT	P	1.75
1	D6	16:DC	O3'	17:DT	P	1.75
1	D6	36:DC	O3'	37:DT	P	1.75
1	D6	45:DC	O3'	46:DT	P	1.75
1	D8	18:DC	O3'	19:DT	P	1.75
1	D8	29:DC	O3'	30:DT	P	1.75
1	D9	10:DC	O3'	11:DT	P	1.75
1	D9	19:DC	O3'	20:DT	P	1.75
1	DC	9:DC	O3'	10:DT	P	1.75
1	DC	21:DC	O3'	22:DT	P	1.75
1	E2	24:DC	O3'	25:DT	P	1.75
1	E5	26:DC	O3'	27:DT	P	1.75
1	E8	18:DC	O3'	19:DT	P	1.75
1	E8	21:DC	O3'	22:DT	P	1.75
1	E9	23:DC	O3'	24:DT	P	1.75
1	EC	16:DC	O3'	17:DT	P	1.75
1	F1	11:DC	O3'	12:DT	P	1.75
1	F2	7:DC	O3'	8:DT	P	1.75
1	F2	29:DC	O3'	30:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	F5	7:DC	O3'	8:DT	P	1.75
1	F5	20:DC	O3'	21:DT	P	1.75
1	F7	12:DC	O3'	13:DT	P	1.75
1	F8	1:DC	O3'	2:DT	P	1.75
1	FA	29:DC	O3'	30:DT	P	1.75
1	FD	32:DC	O3'	33:DT	P	1.75
1	G1	3:DC	O3'	4:DT	P	1.75
1	G2	6:DC	O3'	7:DT	P	1.75
1	G3	2:DC	O3'	3:DT	P	1.75
1	G3	15:DC	O3'	16:DT	P	1.75
1	G5	3:DC	O3'	4:DT	P	1.75
1	G6	22:DC	O3'	23:DT	P	1.75
1	H2	6:DC	O3'	7:DT	P	1.75
1	H2	25:DC	O3'	26:DT	P	1.75
1	H2	32:DC	O3'	33:DT	P	1.75
1	H2	44:DC	O3'	45:DT	P	1.75
1	H3	2:DC	O3'	3:DT	P	1.75
1	H3	6:DC	O3'	7:DT	P	1.75
1	H3	16:DC	O3'	17:DT	P	1.75
1	H5	29:DC	O3'	30:DT	P	1.75
1	H5	36:DC	O3'	37:DT	P	1.75
1	H6	24:DC	O3'	25:DT	P	1.75
1	HC	5:DC	O3'	6:DT	P	1.75
1	HC	19:DC	O3'	20:DT	P	1.75
1	I1	24:DC	O3'	25:DT	P	1.75
1	I2	26:DC	O3'	27:DT	P	1.75
1	I2	43:DC	O3'	44:DT	P	1.75
1	I2	46:DC	O3'	47:DT	P	1.75
1	I8	26:DC	O3'	27:DT	P	1.75
1	I9	7:DC	O3'	8:DT	P	1.75
1	IA	11:DC	O3'	12:DT	P	1.75
1	IC	23:DC	O3'	24:DT	P	1.75
1	J2	18:DC	O3'	19:DT	P	1.75
1	J3	16:DC	O3'	17:DT	P	1.75
1	J5	8:DC	O3'	9:DT	P	1.75
1	J7	16:DC	O3'	17:DT	P	1.75
1	J9	7:DC	O3'	8:DT	P	1.75
1	J9	21:DC	O3'	22:DT	P	1.75
1	JA	15:DC	O3'	16:DT	P	1.75
1	JC	13:DC	O3'	14:DT	P	1.75
1	K1	8:DC	O3'	9:DT	P	1.75
1	K1	39:DC	O3'	40:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	K1	42:DC	O3'	43:DT	P	1.75
1	K5	10:DC	O3'	11:DT	P	1.75
1	K5	29:DC	O3'	30:DT	P	1.75
1	K9	21:DC	O3'	22:DT	P	1.75
1	KA	6:DC	O3'	7:DT	P	1.75
1	KA	8:DC	O3'	9:DT	P	1.75
1	KD	4:DC	O3'	5:DT	P	1.75
1	KD	7:DC	O3'	8:DT	P	1.75
1	L1	37:DC	O3'	38:DT	P	1.75
1	L1	41:DC	O3'	42:DA	P	1.75
1	L2	8:DC	O3'	9:DT	P	1.75
1	L3	5:DC	O3'	6:DT	P	1.75
1	L3	17:DC	O3'	18:DT	P	1.75
1	L5	6:DC	O3'	7:DT	P	1.75
1	L6	21:DC	O3'	22:DT	P	1.75
1	LA	7:DC	O3'	8:DT	P	1.75
1	M2	1:DC	O3'	2:DT	P	1.75
1	M5	30:DC	O3'	31:DT	P	1.75
1	M5	37:DC	O3'	38:DT	P	1.75
1	M6	5:DC	O3'	6:DT	P	1.75
1	M7	9:DC	O3'	10:DT	P	1.75
1	M8	19:DC	O3'	20:DT	P	1.75
1	M8	27:DC	O3'	28:DT	P	1.75
1	MA	15:DC	O3'	16:DT	P	1.75
1	MA	32:DC	O3'	33:DT	P	1.75
1	MC	19:DC	O3'	20:DT	P	1.75
1	N3	13:DC	O3'	14:DT	P	1.75
1	N3	26:DC	O3'	27:DT	P	1.75
1	N5	24:DC	O3'	25:DT	P	1.75
1	N6	3:DC	O3'	4:DT	P	1.75
1	N8	7:DC	O3'	8:DT	P	1.75
1	N9	27:DC	O3'	28:DT	P	1.75
1	NC	2:DC	O3'	3:DT	P	1.75
1	NC	32:DC	O3'	33:DT	P	1.75
1	O2	8:DC	O3'	9:DT	P	1.75
1	O2	12:DC	O3'	13:DT	P	1.75
1	O2	33:DC	O3'	34:DT	P	1.75
1	O5	51:DC	O3'	52:DT	P	1.75
1	O6	16:DC	O3'	17:DT	P	1.75
1	O7	14:DC	O3'	15:DT	P	1.75
1	O8	17:DC	O3'	18:DT	P	1.75
1	O9	8:DC	O3'	9:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	O9	18:DC	O3'	19:DT	P	1.75
1	OA	14:DC	O3'	15:DT	P	1.75
1	OC	8:DC	O3'	9:DA	P	1.75
1	P2	33:DC	O3'	34:DT	P	1.75
1	P3	23:DC	O3'	24:DT	P	1.75
1	P3	33:DC	O3'	34:DT	P	1.75
1	P7	7:DC	O3'	8:DT	P	1.75
1	P8	7:DC	O3'	8:DT	P	1.75
1	P8	12:DC	O3'	13:DT	P	1.75
1	P9	17:DC	O3'	18:DT	P	1.75
1	P9	22:DC	O3'	23:DT	P	1.75
1	P9	26:DC	O3'	27:DT	P	1.75
1	Q3	9:DC	O3'	10:DT	P	1.75
1	Q5	12:DC	O3'	13:DT	P	1.75
1	Q8	22:DC	O3'	23:DT	P	1.75
1	Q9	7:DC	O3'	8:DT	P	1.75
1	Q9	22:DC	O3'	23:DT	P	1.75
1	QC	5:DC	O3'	6:DT	P	1.75
1	R2	13:DC	O3'	14:DT	P	1.75
1	R3	15:DC	O3'	16:DT	P	1.75
1	R3	20:DC	O3'	21:DT	P	1.75
1	R5	12:DC	O3'	13:DT	P	1.75
1	R5	31:DC	O3'	32:DT	P	1.75
1	R7	31:DC	O3'	32:DT	P	1.75
1	R8	8:DC	O3'	9:DT	P	1.75
1	R8	16:DC	O3'	17:DT	P	1.75
1	RC	21:DC	O3'	22:DT	P	1.75
1	S3	3:DC	O3'	4:DT	P	1.75
1	S5	24:DC	O3'	25:DT	P	1.75
1	S7	13:DC	O3'	14:DT	P	1.75
1	S7	21:DC	O3'	22:DT	P	1.75
1	S8	6:DC	O3'	7:DT	P	1.75
1	S8	37:DC	O3'	38:DT	P	1.75
1	SD	12:DC	O3'	13:DT	P	1.75
1	T2	5:DC	O3'	6:DT	P	1.75
1	T3	15:DC	O3'	16:DT	P	1.75
1	T5	6:DC	O3'	7:DT	P	1.75
1	T5	18:DC	O3'	19:DT	P	1.75
1	T7	3:DC	O3'	4:DT	P	1.75
1	T7	13:DC	O3'	14:DT	P	1.75
1	T8	17:DC	O3'	18:DT	P	1.75
1	T9	9:DC	O3'	10:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	T9	18:DC	O3'	19:DT	P	1.75
1	T9	21:DC	O3'	22:DT	P	1.75
1	TA	22:DC	O3'	23:DT	P	1.75
1	TC	6:DC	O3'	7:DT	P	1.75
1	TC	12:DC	O3'	13:DT	P	1.75
1	U2	5:DC	O3'	6:DT	P	1.75
1	U2	17:DC	O3'	18:DT	P	1.75
1	U3	20:DC	O3'	21:DT	P	1.75
1	U5	10:DC	O3'	11:DT	P	1.75
1	U5	22:DC	O3'	23:DT	P	1.75
1	U7	12:DC	O3'	13:DT	P	1.75
1	U7	19:DC	O3'	20:DT	P	1.75
1	U8	21:DC	O3'	22:DT	P	1.75
1	U9	12:DC	O3'	13:DT	P	1.75
1	UC	6:DC	O3'	7:DT	P	1.75
1	UD	1:DC	O3'	2:DT	P	1.75
1	UD	10:DC	O3'	11:DT	P	1.75
1	V2	1:DC	O3'	2:DT	P	1.75
1	V5	23:DC	O3'	24:DT	P	1.75
1	V7	6:DC	O3'	7:DT	P	1.75
1	VA	8:DC	O3'	9:DT	P	1.75
1	VA	27:DC	O3'	28:DT	P	1.75
1	W3	7:DC	O3'	8:DT	P	1.75
1	W3	31:DC	O3'	32:DT	P	1.75
1	W5	14:DC	O3'	15:DT	P	1.75
1	W8	19:DC	O3'	20:DT	P	1.75
1	X9	5:DC	O3'	6:DT	P	1.75

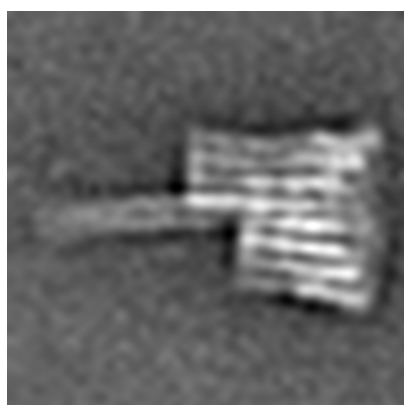
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-12188. These allow visual inspection of the internal detail of the map and identification of artifacts.

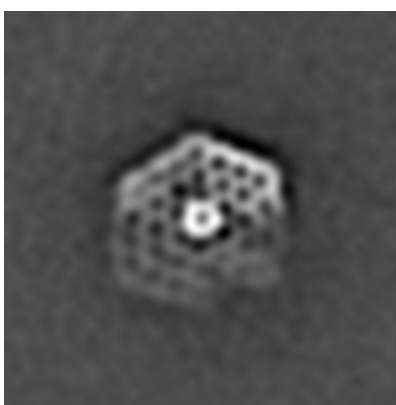
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

6.1.1 Primary map



X



Y

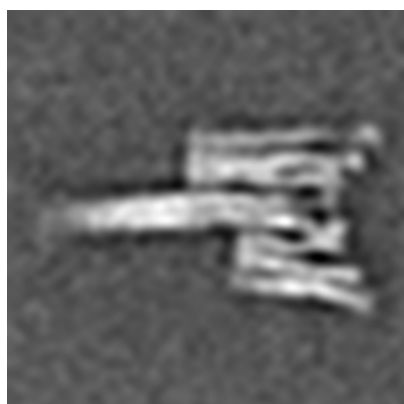


Z

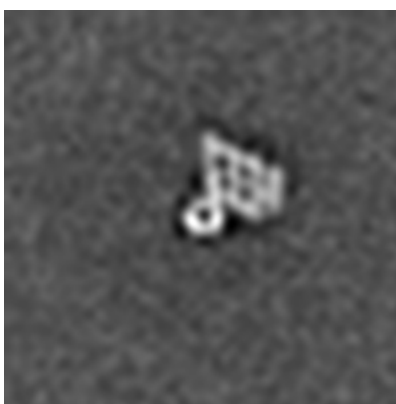
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

6.2.1 Primary map



X Index: 24



Y Index: 24

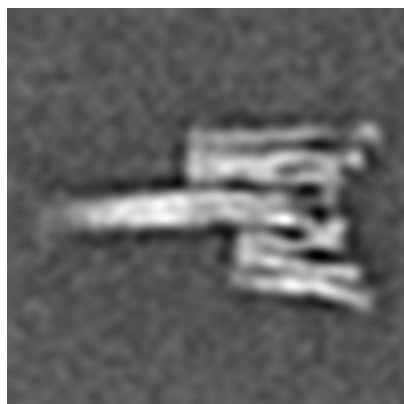


Z Index: 24

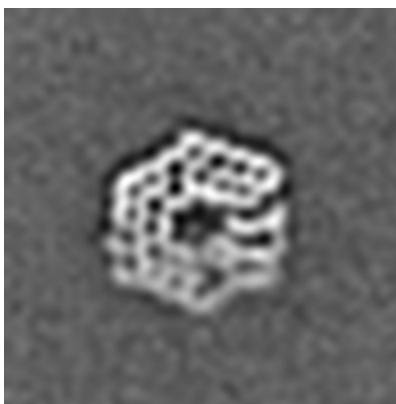
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

6.3.1 Primary map



X Index: 24



Y Index: 38

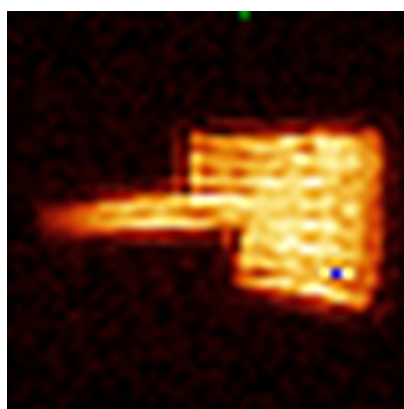


Z Index: 22

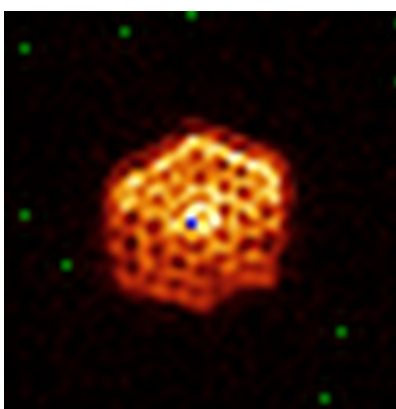
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

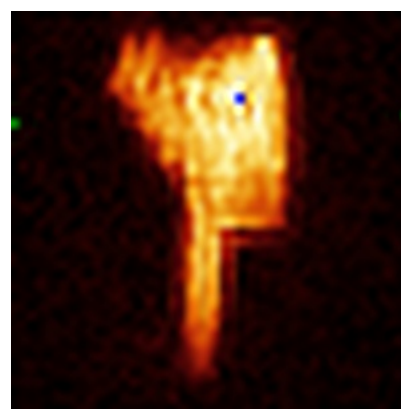
6.4.1 Primary map



X



Y

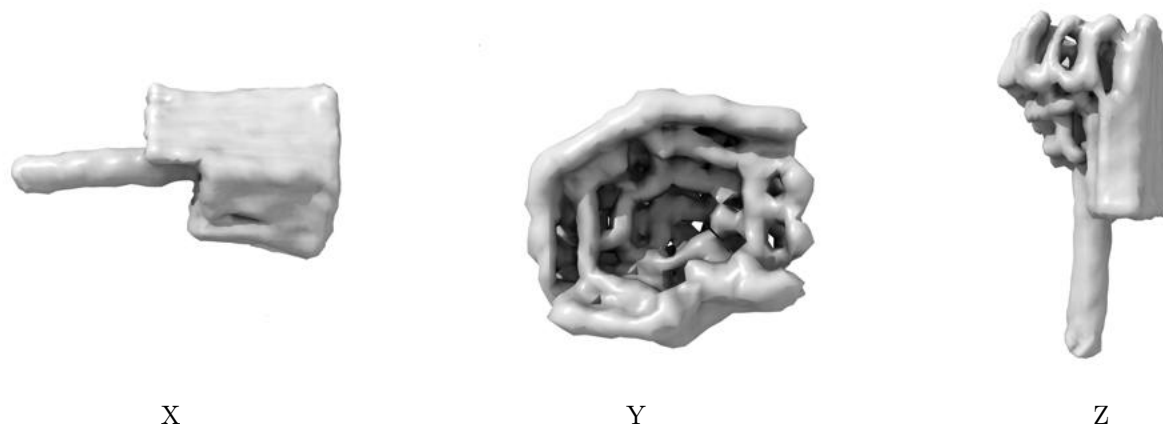


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.219. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

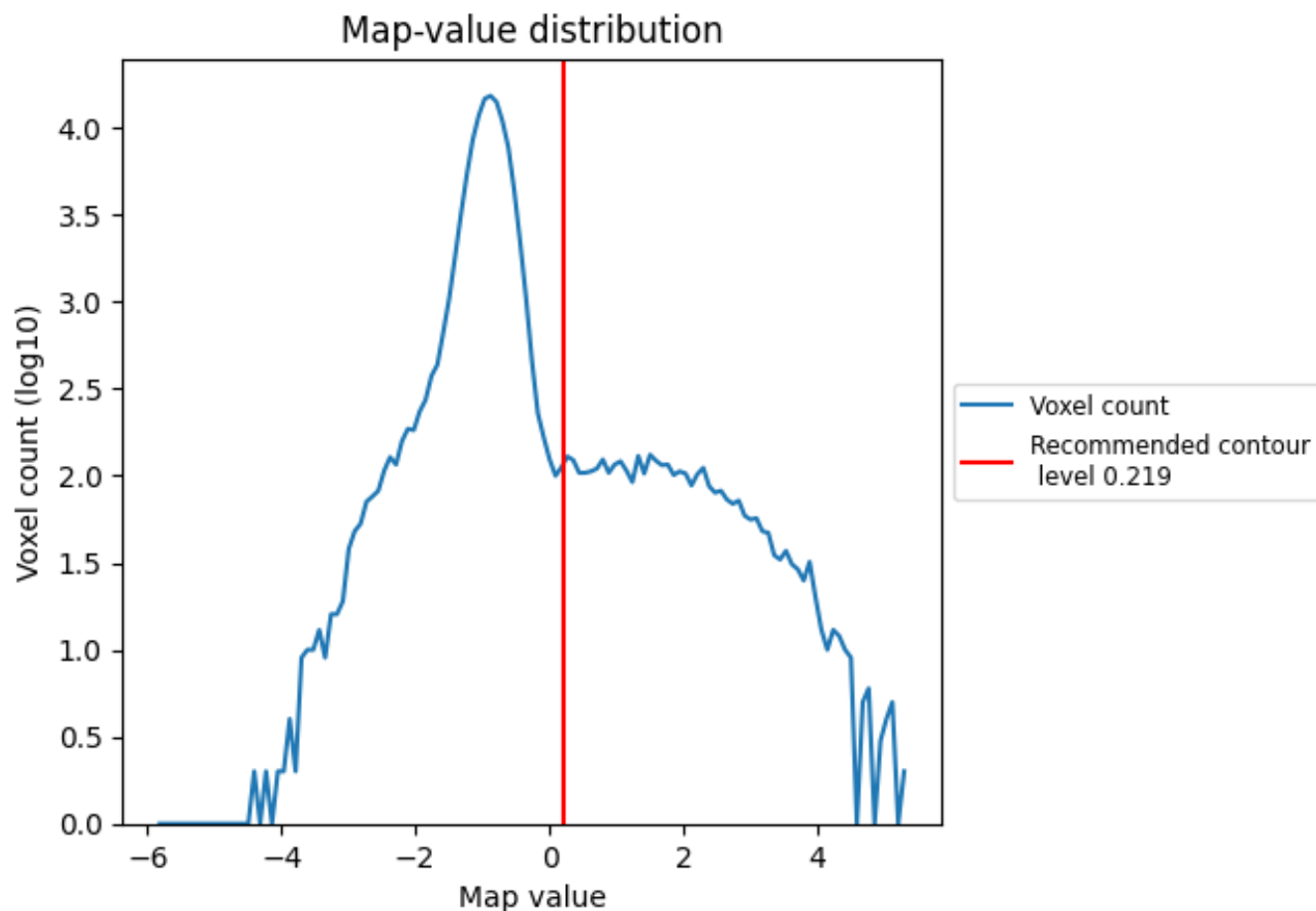
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

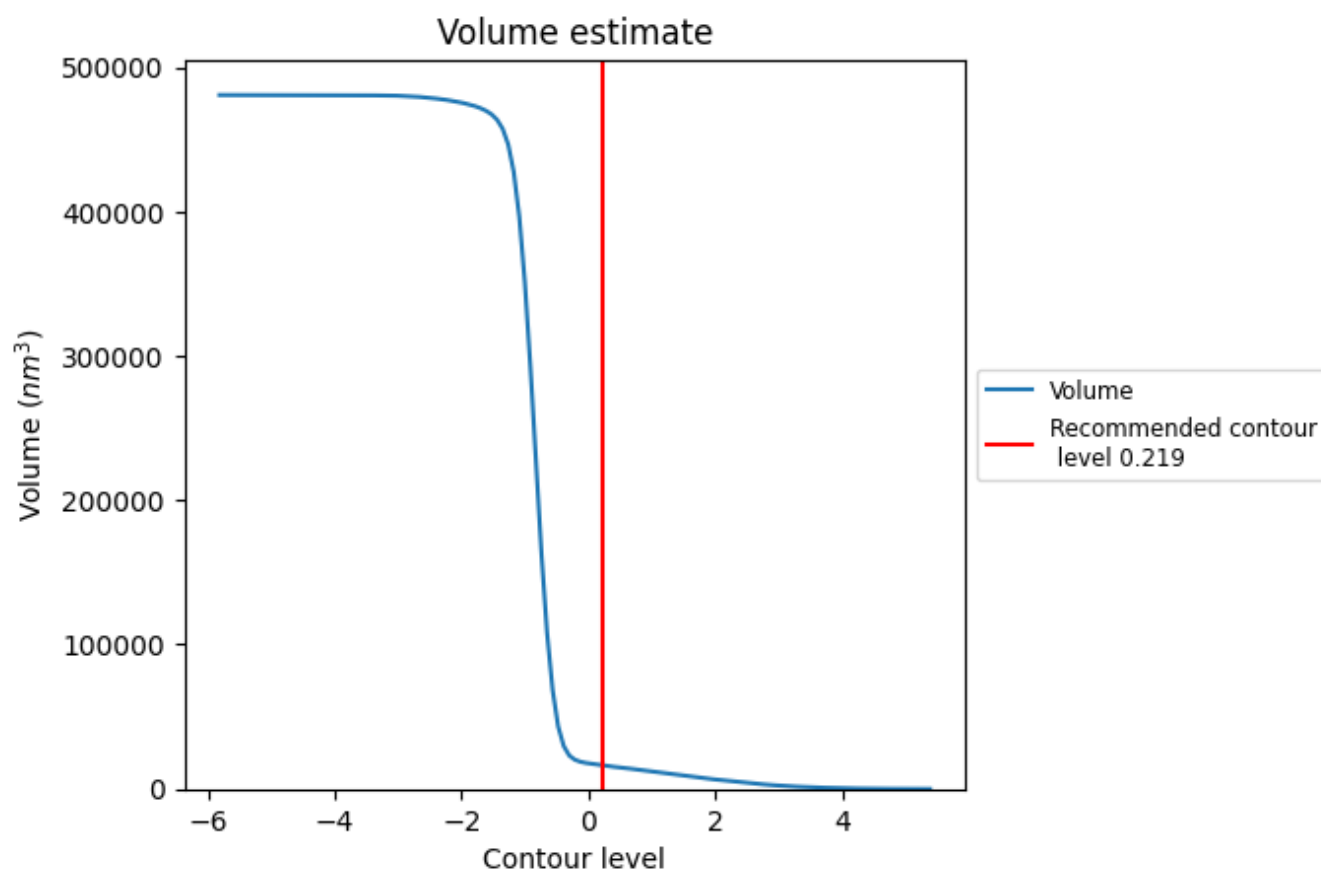
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

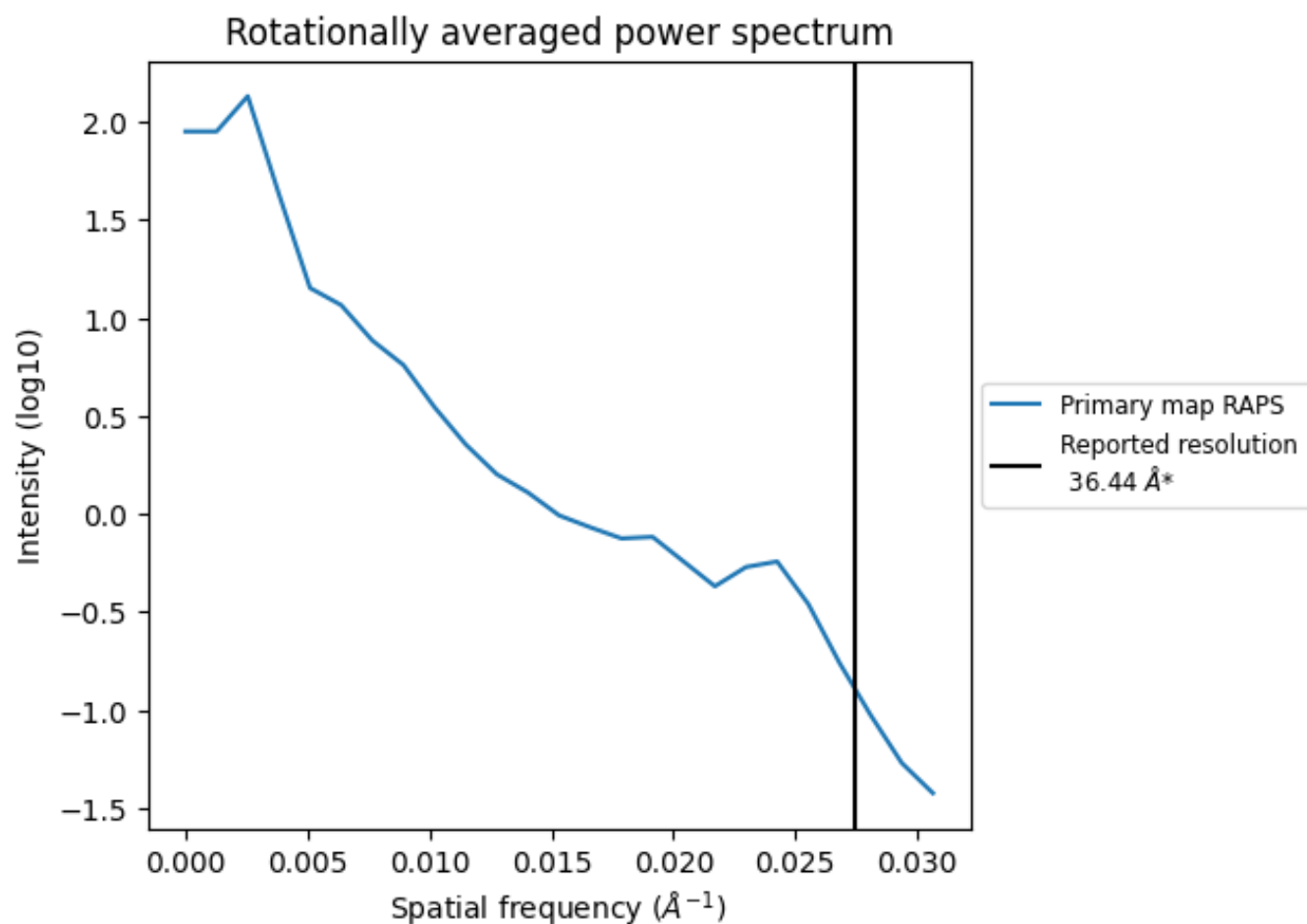
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 16515 nm^3 ; this corresponds to an approximate mass of 14919 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.027 Å⁻¹

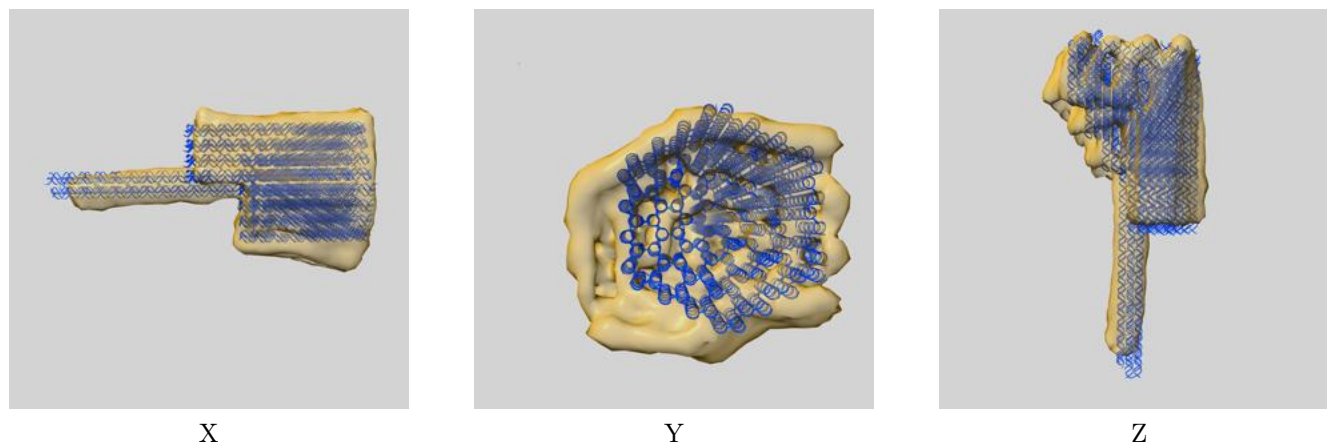
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

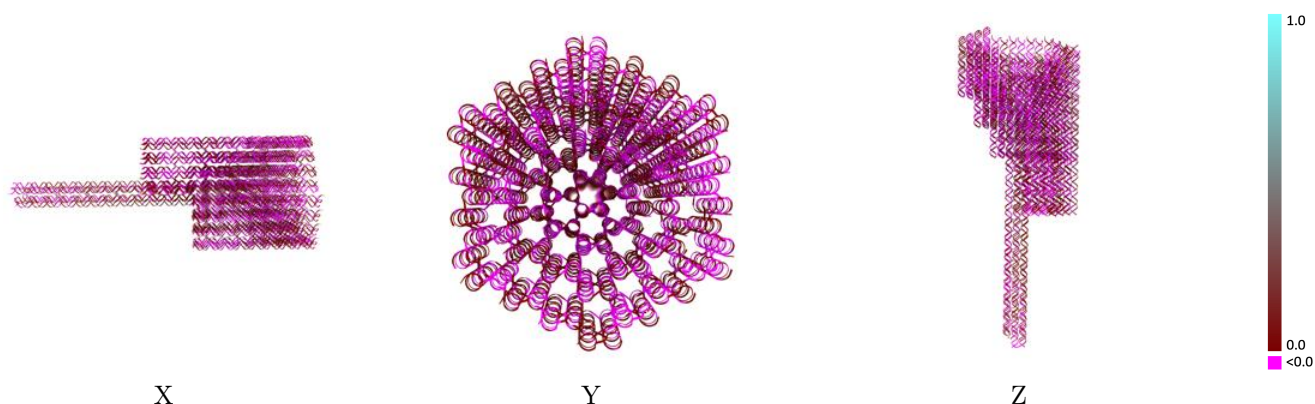
This section contains information regarding the fit between EMDB map EMD-12188 and PDB model 7BHO. Per-residue inclusion information can be found in section [3](#) on page [48](#).

9.1 Map-model overlay [i](#)



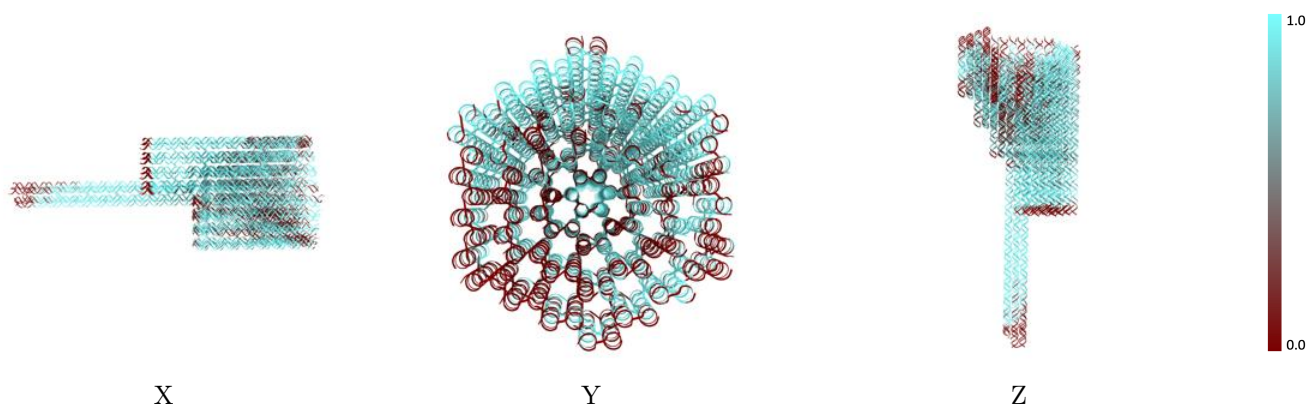
The images above show the 3D surface view of the map at the recommended contour level 0.219 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



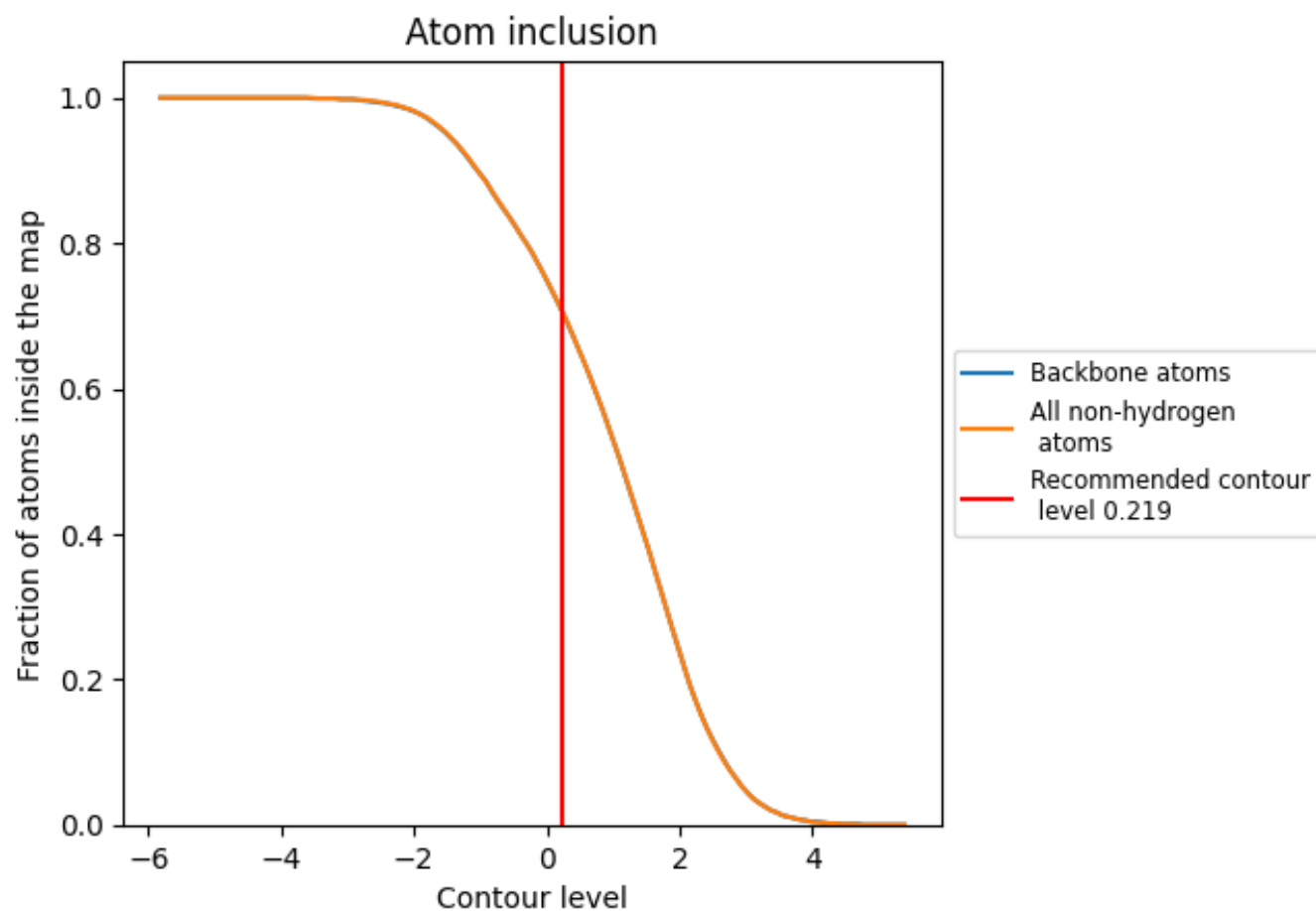
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.219).

9.4 Atom inclusion [i](#)



At the recommended contour level, 71% of all backbone atoms, 71% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.219) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7090	 0.0070
A1	 0.9840	 0.0120
A2	 0.8910	 -0.0000
A3	 0.6470	 -0.0350
A4	 0.5030	 -0.0390
A5	 1.0000	 0.0390
A6	 0.7440	 0.0330
A7	 0.8370	 -0.0110
A8	 0.6450	 0.0130
A9	 0.9520	 0.0050
AA	 0.4560	 -0.0170
AB	 0.7090	 0.0070
AC	 0.9970	 0.0180
AD	 0.8710	 0.0120
B1	 0.9830	 0.0330
B2	 0.1430	 -0.0190
B3	 0.3000	 -0.0270
B4	 0.0000	 -0.0460
B5	 0.8720	 0.0220
B6	 0.8180	 0.0130
B7	 0.7710	 -0.0150
B8	 0.5500	 -0.0290
B9	 0.2840	 -0.0110
BA	 0.0000	 -0.0040
BC	 0.3390	 -0.0250
BD	 0.0000	 -0.0490
C1	 0.8220	 0.0450
C2	 0.6130	 -0.0310
C3	 0.5290	 -0.0120
C5	 0.7000	 0.0100
C6	 0.9630	 0.0440
C7	 0.7980	 0.0140
C8	 0.8380	 0.0130
C9	 0.7390	 0.0060
CA	 0.2530	 -0.0410



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Chain	Atom inclusion	Q-score
CC	 0.1860	 -0.0640
CD	 0.7130	 0.0080
D1	 1.0000	 0.0310
D2	 0.8180	 0.0040
D3	 0.9840	 0.0080
D5	 0.0000	 -0.0120
D6	 0.9380	 0.0430
D7	 1.0000	 -0.0210
D8	 0.9970	 0.0100
D9	 0.4970	 -0.0180
DA	 0.9940	 0.0440
DC	 0.3470	 -0.0140
DD	 0.8430	 -0.0050
E1	 0.7420	 0.0060
E2	 0.9770	 0.0070
E3	 0.9460	 0.0150
E5	 0.6940	 -0.0150
E6	 0.7480	 0.0000
E7	 0.9900	 0.0070
E8	 0.8180	 0.0030
E9	 0.9290	 0.0490
EA	 0.1080	 -0.0090
EC	 0.0400	 -0.0170
ED	 0.4560	 0.0140
F1	 0.8810	 0.0440
F2	 0.9820	 0.0120
F3	 0.9500	 0.0140
F5	 0.9610	 0.0220
F6	 0.1630	 0.0120
F7	 0.9670	 0.0080
F8	 0.4860	 0.0030
F9	 0.3340	 0.0090
FA	 0.5200	 -0.0070
FC	 0.5440	 0.0170
FD	 0.7980	 -0.0340
G1	 0.5350	 0.0280
G2	 0.2150	 -0.0390
G3	 0.8740	 -0.0030
G5	 1.0000	 0.0280
G6	 0.9840	 0.0220
G7	 1.0000	 0.0070
G8	 0.6100	 -0.0070

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Chain	Atom inclusion	Q-score
G9	 0.5860	 -0.0310
GA	 0.2030	 0.0100
GC	 0.5850	 0.0120
GD	 0.9070	 0.0680
H1	 0.6230	 0.0690
H2	 0.9490	 0.0050
H3	 0.9310	 0.0110
H5	 1.0000	 0.0500
H6	 0.8610	 0.0280
H7	 0.6740	 0.0220
H8	 0.4250	 0.0180
H9	 0.9740	 -0.0480
HA	 0.9020	 -0.0050
HC	 0.7580	 -0.0110
HD	 0.5220	 0.0250
I1	 0.4300	 -0.0440
I2	 0.7980	 0.0140
I3	 0.9270	 0.0420
I5	 0.9710	 0.0350
I6	 0.9560	 0.0410
I7	 0.7700	 -0.0140
I8	 0.4470	 -0.0150
I9	 0.9940	 0.0210
IA	 0.1190	 0.0080
IC	 0.6790	 0.0050
ID	 0.5510	 0.0010
J1	 0.9150	 -0.0000
J2	 0.9330	 0.0100
J3	 0.7390	 0.0400
J5	 0.7410	 -0.0280
J6	 0.8690	 0.0380
J7	 0.9420	 0.0000
J8	 0.7070	 0.0130
J9	 1.0000	 0.0330
JA	 0.2530	 -0.0040
JC	 0.9740	 0.0300
JD	 0.5730	 0.0040
K1	 0.9590	 0.0050
K2	 0.6550	 0.0150
K3	 1.0000	 0.0220
K5	 0.9730	 0.0320
K6	 0.2710	 -0.0090

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Chain	Atom inclusion	Q-score
K7	 0.9760	 -0.0080
K8	 0.7690	 -0.0250
K9	 0.9040	 0.0110
KA	 0.5760	 0.0120
KC	 0.9400	 0.0150
KD	 0.5790	 -0.0120
L1	 0.9380	 0.0140
L2	 0.3720	 -0.0220
L3	 0.9870	 0.0170
L5	 1.0000	 0.0250
L6	 0.7580	 -0.0070
L7	 0.9670	 -0.0140
L8	 0.9640	 0.0370
L9	 0.4200	 -0.0120
LA	 0.8930	 -0.0010
LC	 0.0000	 0.0050
LD	 0.9320	 0.0690
M2	 0.3100	 -0.0050
M3	 0.9180	 0.0560
M5	 1.0000	 0.0560
M6	 0.7810	 0.0060
M7	 0.7330	 0.0120
M8	 0.3860	 0.0040
M9	 0.5740	 -0.0090
MA	 0.7900	 -0.0350
MC	 0.5380	 0.0120
MD	 0.8290	 0.0320
N2	 0.7070	 0.0110
N3	 0.9480	 0.0400
N5	 0.1120	 -0.0030
N6	 0.7650	 -0.0200
N7	 0.7220	 0.0530
N8	 0.4040	 -0.0170
N9	 0.8400	 0.0090
NA	 0.2680	 -0.0210
NC	 0.6570	 0.0320
ND	 0.6230	 -0.0010
O2	 0.3900	 -0.0220
O3	 0.9980	 0.0370
O5	 0.8380	 0.0070
O6	 0.7470	 0.0680
O7	 0.8180	 0.0310

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Chain	Atom inclusion	Q-score
O8	 0.7900	 0.0200
O9	 0.7320	 -0.0090
OA	 0.8230	 0.0300
OC	 0.0500	 -0.0610
OD	 0.8420	 0.0210
P2	 0.5190	 -0.0020
P3	 1.0000	 0.0120
P5	 1.0000	 0.0650
P6	 0.3730	 -0.0120
P7	 0.2160	 -0.0060
P8	 0.3110	 -0.0420
P9	 1.0000	 0.0750
PA	 1.0000	 0.0340
PC	 0.4140	 0.0470
PD	 0.7100	 0.0040
Q2	 0.0000	 -0.0490
Q3	 0.6920	 0.0070
Q5	 1.0000	 0.0410
Q7	 0.2630	 -0.0210
Q8	 0.0020	 -0.0280
Q9	 0.8840	 0.0320
QA	 0.9970	 0.0460
QC	 0.5420	 -0.0090
QD	 0.8880	 0.0030
R2	 0.9240	 0.0120
R3	 1.0000	 0.0450
R5	 0.7310	 0.0030
R7	 0.8400	 -0.0260
R8	 0.3300	 0.0030
R9	 0.8120	 0.0140
RA	 1.0000	 -0.0210
RC	 0.1900	 0.0120
RD	 0.7060	 0.0130
S2	 0.1690	 -0.0400
S3	 0.9690	 0.0280
S5	 0.4000	 -0.0120
S7	 0.9940	 -0.0020
S8	 0.5790	 -0.0080
S9	 0.5440	 -0.0300
SA	 0.8260	 -0.0050
SC	 0.8730	 0.0180
SD	 0.8320	 -0.0220

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Chain	Atom inclusion	Q-score
T2	 0.5790	 0.0050
T3	 0.8790	 0.0140
T5	 1.0000	 0.0340
T7	 0.9610	 0.0050
T8	 0.0000	 0.0330
T9	 0.5860	 0.0280
TA	 0.7660	 0.0280
TC	 0.5280	 -0.0120
TD	 0.9830	 0.0580
U2	 0.1620	 -0.0220
U3	 0.9950	 0.0250
U5	 1.0000	 0.0710
U7	 0.3830	 -0.0270
U8	 0.0000	 -0.0360
U9	 1.0000	 0.0170
UA	 0.5970	 0.0040
UC	 0.0000	 0.0040
UD	 0.6620	 0.0060
V2	 0.6790	 -0.0140
V3	 0.9810	 0.0170
V5	 0.8630	 0.0220
V7	 0.0820	 -0.0330
V8	 0.9870	 0.0350
V9	 0.4830	 -0.0220
VA	 0.9430	 -0.0260
VC	 0.0970	 -0.0060
VD	 0.6200	 0.0000
W3	 0.9920	 0.0080
W5	 0.2230	 0.0190
W7	 0.7300	 -0.0090
W8	 0.0000	 -0.0250
W9	 0.8590	 0.0320
WD	 0.1620	 0.0190
X5	 0.1050	 -0.0440
X7	 0.3830	 0.0040
X9	 0.5430	 -0.0300