

# G-quadruplicata's analysis Report

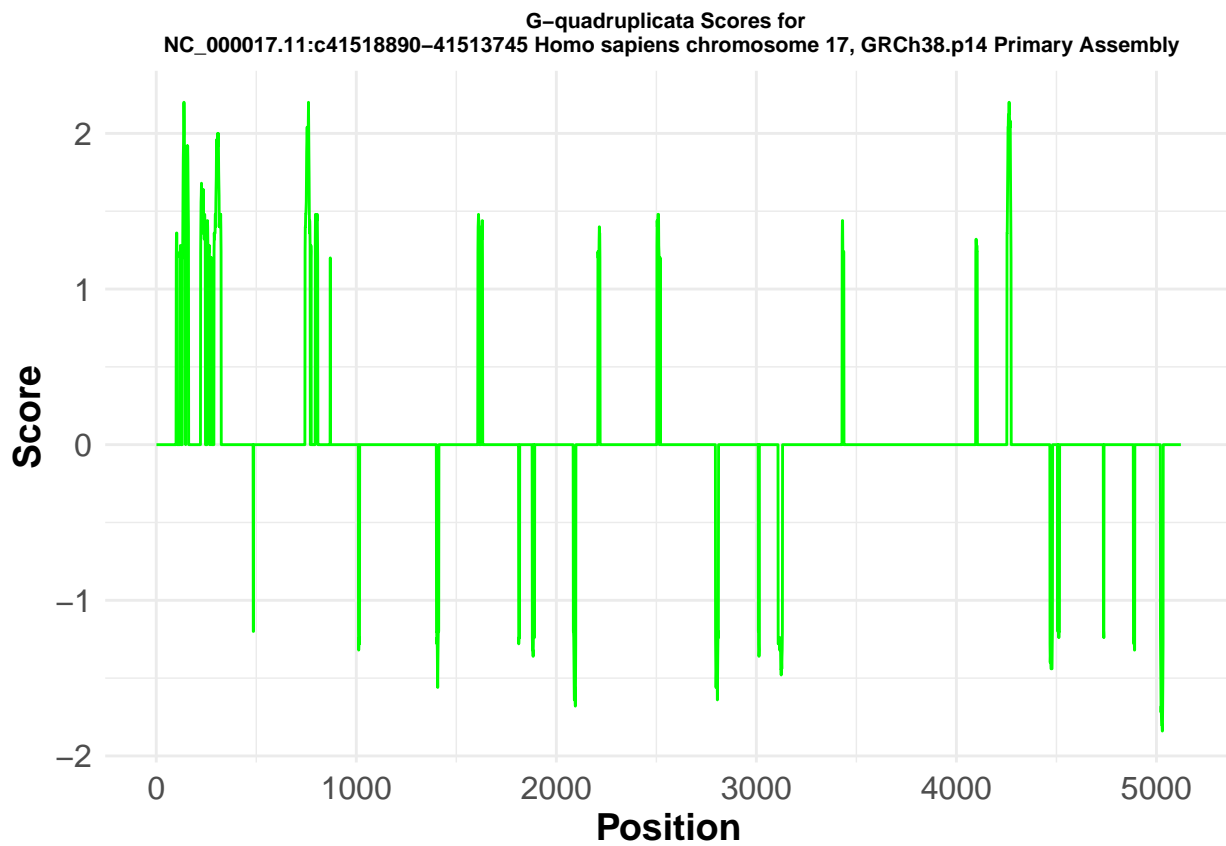
## G4Hunter Analysis Report

**Sequence Name:** NC\_000017.11:c41518890-41513745 Homo sapiens chromosome 17, GRCh38.p14 Primary Assembly

**Window Size given:** 25

**Threshold taken into account:** 1.2

**Plot of Scores:**



ID	POSITION	LENGTH	SCORE	SEQUENCE	SUB_SCORE
1	100	25	1.20	TTTGGGGGTTGGCTCAACCCGAGGGG	0, 0, 0, 4, 4, 4, 4, 4, 0, 2, 2, -1, 0, -1, 0, 0, -3, -3, -3, 1, 0, 4, 4, 4, 4, 4
2	101	25	1.36	TTGGGGGTTGGCTCAACCCGAGGGGG	0, 0, 4, 4, 4, 4, 4, 4, 0, 2, 2, -1, 0, -1, 0, 0, -3, -3, -3, 1, 0, 4, 4, 4, 4, 4
3	102	25	1.36	TGGGGGTTGGCTCAACCCGAGGGGGT	0, 4, 4, 4, 4, 4, 4, 0, 2, 2, -1, 0, -1, 0, 0, -3, -3, -3, 1, 0, 4, 4, 4, 4, 4, 0
4	103	25	1.36	GGGGGTTGGCTCAACCCGAGGGGGTT	4, 4, 4, 4, 4, 4, 0, 2, 2, -1, 0, -1, 0, 0, -3, -3, -3, 1, 0, 4, 4, 4, 4, 4, 0, 0
5	119	25	1.24	GAGGGGTTCCCTCCTGGCTGGGGG	1, 0, 4, 4, 4, 4, 4, 0, 0, -3, -3, -3, 0, -2, -2, 0, 2, 2, -1, 0, 4, 4, 4, 4, 4
6	120	25	1.20	AGGGGGTTCCCTCCTGGCTGGGGGA	0, 4, 4, 4, 4, 4, 0, 0, -3, -3, -3, 0, -2, -2, 0, 2, 2, -1, 0, 4, 4, 4, 4, 4, 0
7	121	25	1.28	GGGGGTTCCCTCCTGGCTGGGGGAG	4, 4, 4, 4, 4, 4, 0, 0, -3, -3, -3, 0, -2, -2, 0, 2, 2, -1, 0, 4, 4, 4, 4, 4, 0, 2
8	122	25	1.20	GGGGTTCCTCCTGGCTGGGGGAGG	4, 4, 4, 4, 4, 0, 0, -3, -3, -3, 0, -2, -2, 0, 2, 2, -1, 0, 4, 4, 4, 4, 4, 0, 2, 2
9	131	25	1.20	TCCTGGCTGGGGGAGGTGGCTTTGG	0, -2, -2, 0, 2, 2, -1, 0, 4, 4, 4, 4, 4, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2
10	132	25	1.20	CCTGGCTGGGGGAGGTGGCTTTGGT	-2, -2, 0, 2, 2, -1, 0, 4, 4, 4, 4, 4, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0
11	133	25	1.44	CTGGCTGGGGGAGGTGGCTTTGGTG	-2, 0, 2, 2, -1, 0, 4, 4, 4, 4, 4, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4
12	134	25	1.68	TGGCTGGGGGAGGTGGCTTTGGTG	0, 2, 2, -1, 0, 4, 4, 4, 4, 4, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4
13	135	25	1.84	GGCTGGGGGAGGTGGCTTTGGTGGG	2, 2, -1, 0, 4, 4, 4, 4, 4, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4
14	136	25	1.92	GCTGGGGGAGGTGGCTTTGGTGGGG	2, -1, 0, 4, 4, 4, 4, 4, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4
15	137	25	2.00	CTGGGGGAGGTGGCTTTGGTGGGGG	-1, 0, 4, 4, 4, 4, 4, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4
16	138	25	2.20	TGGGGGAGGTGGCTTTGGTGGGGGG	0, 4, 4, 4, 4, 4, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 4
17	139	25	2.20	GGGGGAGGTGGCTTTGGTGGGGGGA	4, 4, 4, 4, 4, 4, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 0
18	140	25	2.08	GGGGAGGTGGCTTTGGTGGGGGGAG	4, 4, 4, 4, 4, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 4, 0, 1
19	141	25	1.92	GGGAGGTGGCTTTGGTGGGGGGAGT	4, 4, 4, 4, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 4, 0, 1, 0
20	142	25	1.72	GGAGGTGGCTTTGGTGGGGGGAGTC	4, 4, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 4, 4, 0, 1, 0, -1
21	143	25	1.56	GAGGTGGCTTTGGTGGGGGGAGTCT	4, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 4, 4, 0, 1, 0, -1, 0
22	144	25	1.36	AGGTGGCTTTGGTGGGGGGAGTCTC	0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 4, 4, 0, 1, 0, -1, 0, -1
23	145	25	1.36	GGTGGCTTTGGTGGGGGGAGTCTCT	2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 4, 4, 0, 1, 0, -1, 0, -1, 0
24	146	25	1.24	GTGGCTTTGGTGGGGGGAGTCTCTC	2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 4, 4, 0, 1, 0, -1, 0, -1, 0, -1
25	148	25	1.32	GGCTTTGGTGGGGGGAGTCTCTCTG	2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 4, 4, 0, 1, 0, -1, 0, -1, 0, -1, 0, 4
26	149	25	1.40	GCTTTGGTGGGGGGAGTCTCTCTGG	2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 4, 4, 0, 1, 0, -1, 0, -1, 0, -1, 0, 4, 4
27	150	25	1.48	CTTTGGTGGGGGGAGTCTCTCTGGG	-1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 4, 4, 0, 1, 0, -1, 0, -1, 0, -1, 0, 4, 4, 4
28	151	25	1.68	TTTGGTGGGGGGAGTCTCTCTGGGG	0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 4, 4, 0, 1, 0, -1, 0, -1, 0, -1, 0, 4, 4, 4, 4
29	152	25	1.84	TTGGTGGGGGGAGTCTCTCTGGGGG	0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 4, 4, 0, 1, 0, -1, 0, -1, 0, -1, 0, 4, 4, 4, 4, 4
30	153	25	1.84	TGGTGGGGGGAGTCTCTCTGGGGGA	0, 2, 2, 0, 4, 4, 4, 4, 4, 4, 4, 0, 1, 0, -1, 0, -1, 0, -1, 0, 4, 4, 4, 4, 4, 0
31	154	25	1.92	GGTGGGGGGAGTCTCTCTGGGGGAG	2, 2, 0, 4, 4, 4, 4, 4, 4, 0, 1, 0, -1, 0, -1, 0, -1, 0, 4, 4, 4, 4, 4, 0, 2
32	155	25	1.92	GTGGGGGGAGTCTCTCTGGGGGAGG	2, 0, 4, 4, 4, 4, 4, 4, 0, 1, 0, -1, 0, -1, 0, -1, 0, 4, 4, 4, 4, 4, 0, 2, 2
33	156	25	1.84	TGGGGGGAGTCTCTCTGGGGGAGGT	0, 4, 4, 4, 4, 4, 4, 0, 1, 0, -1, 0, -1, 0, -1, 0, 4, 4, 4, 4, 4, 0, 2, 2, 0
34	157	25	1.92	GGGGGGAGTCTCTCTGGGGGAGGTG	4, 4, 4, 4, 4, 4, 4, 0, 1, 0, -1, 0, -1, 0, -1, 0, 4, 4, 4, 4, 4, 0, 2, 2, 0, 2

35	158	25	1.84	GGGGGAGTCTCTCTGGGGGAGGTGG	4, 4, 4, 4, 4, 0, 1, 0, -1, 0, -1, 0, -1, 0, 4, 4, 4, 4, 0, 2, 2, 0, 2, 2
36	159	25	1.68	GGGGAGTCTCTCTGGGGGAGGTGGA	4, 4, 4, 4, 0, 1, 0, -1, 0, -1, 0, -1, 0, 4, 4, 4, 4, 0, 2, 2, 0, 2, 2, 0
37	160	25	1.52	GGGAGTCTCTCTGGGGGAGGTGGAA	4, 4, 4, 0, 1, 0, -1, 0, -1, 0, -1, 0, 4, 4, 4, 4, 0, 2, 2, 0, 2, 2, 0, 0
38	161	25	1.40	GGAGTCTCTCTGGGGGAGGTGGAAG	4, 4, 0, 1, 0, -1, 0, -1, 0, -1, 0, 4, 4, 4, 4, 0, 2, 2, 0, 2, 2, 0, 0, 1
39	222	25	1.24	TTCAGGGTCAGGAGGAGGATATGGG	0, 0, -1, 0, 3, 3, 3, 0, -1, 0, 2, 2, 0, 2, 2, 0, 2, 2, 0, 0, 0, 0, 4, 4
40	223	25	1.40	TCAGGGTCAGGAGGAGGATATGGGG	0, -1, 0, 3, 3, 3, 0, -1, 0, 2, 2, 0, 2, 2, 0, 2, 2, 0, 0, 0, 0, 4, 4, 4
41	224	25	1.56	CAGGGTCAGGAGGAGGATATGGGGG	-1, 0, 3, 3, 3, 0, -1, 0, 2, 2, 0, 2, 2, 0, 2, 2, 0, 0, 0, 0, 4, 4, 4, 4
42	225	25	1.60	AGGGTCAGGAGGAGGATATGGGGGT	0, 3, 3, 3, 0, -1, 0, 2, 2, 0, 2, 2, 0, 2, 2, 0, 0, 0, 0, 4, 4, 4, 4, 0
43	226	25	1.68	GGGTCAGGAGGAGGATATGGGGGTG	3, 3, 3, 0, -1, 0, 2, 2, 0, 2, 2, 0, 2, 2, 0, 0, 0, 0, 4, 4, 4, 4, 0, 2
44	227	25	1.64	GCTCAGGAGGAGGATATGGGGGTGG	3, 3, 0, -1, 0, 2, 2, 0, 2, 2, 0, 2, 2, 0, 0, 0, 0, 4, 4, 4, 4, 0, 2, 2
45	228	25	1.48	GTCAGGAGGAGGATATGGGGGTGGC	3, 0, -1, 0, 2, 2, 0, 2, 2, 0, 2, 2, 0, 0, 0, 0, 4, 4, 4, 4, 0, 2, 2, -1
46	229	25	1.36	TCAGGAGGAGGATATGGGGGTGGCA	0, -1, 0, 2, 2, 0, 2, 2, 0, 2, 2, 0, 0, 0, 0, 4, 4, 4, 4, 0, 2, 2, -1, 0
47	230	25	1.36	CAGGAGGAGGATATGGGGGTGGCAT	-1, 0, 2, 2, 0, 2, 2, 0, 2, 2, 0, 0, 0, 0, 4, 4, 4, 4, 0, 2, 2, -1, 0, 0
48	231	25	1.44	AGGAGGAGGATATGGGGGTGGCATG	0, 2, 2, 0, 2, 2, 0, 2, 2, 0, 0, 0, 0, 4, 4, 4, 4, 0, 2, 2, -1, 0, 0, 1
49	232	25	1.44	GGAGGAGGATATGGGGGTGGCATGA	2, 2, 0, 2, 2, 0, 2, 2, 0, 0, 0, 0, 4, 4, 4, 4, 0, 2, 2, -1, 0, 0, 1, 0
50	233	25	1.48	GAGGAGGATATGGGGGTGGCATGAG	2, 0, 2, 2, 0, 2, 2, 0, 0, 0, 0, 4, 4, 4, 4, 0, 2, 2, -1, 0, 0, 1, 0, 3
51	234	25	1.52	AGGAGGATATGGGGGTGGCATGAGG	0, 2, 2, 0, 2, 2, 0, 0, 0, 0, 4, 4, 4, 4, 0, 2, 2, -1, 0, 0, 1, 0, 3, 3
52	235	25	1.64	GGAGGATATGGGGGTGGCATGAGGG	2, 2, 0, 2, 2, 0, 0, 0, 0, 4, 4, 4, 4, 0, 2, 2, -1, 0, 0, 1, 0, 3, 3, 3
53	236	25	1.56	GAGGATATGGGGGTGGCATGAGGGT	2, 0, 2, 2, 0, 0, 0, 0, 4, 4, 4, 4, 0, 2, 2, -1, 0, 0, 1, 0, 3, 3, 3, 0
54	237	25	1.44	AGGATATGGGGGTGGCATGAGGGTC	0, 2, 2, 0, 0, 0, 0, 4, 4, 4, 4, 0, 2, 2, -1, 0, 0, 1, 0, 3, 3, 3, 0, -1
55	238	25	1.44	GGATATGGGGGTGGCATGAGGGTCT	2, 2, 0, 0, 0, 0, 4, 4, 4, 4, 0, 2, 2, -1, 0, 0, 1, 0, 3, 3, 3, 0, -1, 0
56	239	25	1.40	GATATGGGGGTGGCATGAGGGTCTG	2, 0, 0, 0, 0, 4, 4, 4, 4, 0, 2, 2, -1, 0, 0, 1, 0, 3, 3, 3, 0, -1, 0, 1
57	240	25	1.32	ATATGGGGGTGGCATGAGGGTCTGT	0, 0, 0, 0, 4, 4, 4, 4, 0, 2, 2, -1, 0, 0, 1, 0, 3, 3, 3, 0, -1, 0, 1, 0
58	241	25	1.40	TATGGGGGTGGCATGAGGGTCTGTG	0, 0, 0, 4, 4, 4, 4, 0, 2, 2, -1, 0, 0, 1, 0, 3, 3, 3, 0, -1, 0, 1, 0, 2
59	242	25	1.48	ATGGGGGTGGCATGAGGGTCTGTGG	0, 0, 4, 4, 4, 4, 0, 2, 2, -1, 0, 0, 1, 0, 3, 3, 3, 0, -1, 0, 1, 0, 2, 2
60	243	25	1.44	TGGGGGTGGCATGAGGGTCTGTGGC	0, 4, 4, 4, 4, 0, 2, 2, -1, 0, 0, 1, 0, 3, 3, 3, 0, -1, 0, 1, 0, 2, 2, -1
61	244	25	1.44	GGGGGTGGCATGAGGGTCTGTGGCT	4, 4, 4, 4, 0, 2, 2, -1, 0, 0, 1, 0, 3, 3, 3, 0, -1, 0, 1, 0, 2, 2, -1, 0
62	245	25	1.28	GGGGTGGCATGAGGGTCTGTGGCTT	4, 4, 4, 4, 0, 2, 2, -1, 0, 0, 1, 0, 3, 3, 3, 0, -1, 0, 1, 0, 2, 2, -1, 0, 0
63	255	25	1.32	GAGGGTCTGTGGCTTTGGTGGAGGG	1, 0, 3, 3, 3, 0, -1, 0, 1, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 2, 2, 0, 4, 4, 4
64	256	25	1.44	AGGGTCTGTGGCTTTGGTGGAGGGG	0, 3, 3, 3, 0, -1, 0, 1, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 2, 2, 0, 4, 4, 4, 4
65	257	25	1.40	GGGTCTGTGGCTTTGGTGGAGGGGC	3, 3, 3, 0, -1, 0, 1, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 2, 2, 0, 4, 4, 4, -1
66	258	25	1.28	GGTCTGTGGCTTTGGTGGAGGGGCT	3, 3, 0, -1, 0, 1, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 2, 2, 0, 4, 4, 4, 4, -1, 0
67	259	25	1.24	GTCTGTGGCTTTGGTGGAGGGGCTG	3, 0, -1, 0, 1, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 2, 2, 0, 4, 4, 4, 4, -1, 0, 2
68	260	25	1.20	TCTGTGGCTTTGGTGGAGGGGCTGG	0, -1, 0, 1, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 2, 2, 0, 4, 4, 4, 4, -1, 0, 2, 2
69	261	25	1.20	CTGTGGCTTTGGTGGAGGGGCTGGT	-1, 0, 1, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 2, 2, 0, 4, 4, 4, 4, -1, 0, 2, 2, 0
70	262	25	1.24	TGTGGCTTTGGTGGAGGGGCTGGTA	0, 1, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 2, 2, 0, 4, 4, 4, 4, -1, 0, 2, 2, 0, 0

71	263	25	1.28	GTGGCTTTGGTGGAGGGGCTGGTAG	1, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 2, 2, 0, 4, 4, 4, 4, -1, 0, 2, 2, 0, 0, 1
72	264	25	1.24	TGGCTTTGGTGGAGGGGCTGGTAGT	0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 2, 2, 0, 4, 4, 4, 4, -1, 0, 2, 2, 0, 0, 1, 0
73	265	25	1.28	GGCTTTGGTGGAGGGGCTGGTAGTG	2, 2, -1, 0, 0, 0, 2, 2, 0, 2, 2, 0, 4, 4, 4, 4, -1, 0, 2, 2, 0, 0, 1, 0, 1
74	266	25	1.20	GCTTTGGTGGAGGGGCTGGTAGTGT	2, -1, 0, 0, 0, 2, 2, 0, 2, 2, 0, 4, 4, 4, 4, -1, 0, 2, 2, 0, 0, 1, 0, 1, 0
75	271	25	1.20	GGTGGAGGGGCTGGTAGTGTTCG	2, 2, 0, 2, 2, 0, 4, 4, 4, 4, -1, 0, 2, 2, 0, 0, 1, 0, 1, 0, 0, 0, 0, -1, 2
76	272	25	1.20	GTGGAGGGGCTGGTAGTGTTCGG	2, 0, 2, 2, 0, 4, 4, 4, 4, -1, 0, 2, 2, 0, 0, 1, 0, 1, 0, 0, 0, 0, -1, 2, 2
77	274	25	1.20	GGAGGGGCTGGTAGTGTTCGGTG	2, 2, 0, 4, 4, 4, 4, -1, 0, 2, 2, 0, 0, 1, 0, 1, 0, 0, 0, 0, -1, 2, 2, 0, 2
78	275	25	1.20	GAGGGGCTGGTAGTGTTCGGTGG	2, 0, 4, 4, 4, 4, -1, 0, 2, 2, 0, 0, 1, 0, 1, 0, 0, 0, 0, -1, 2, 2, 0, 2, 2
79	277	25	1.20	GGGGCTGGTAGTGTTCGGTGGAG	4, 4, 4, 4, -1, 0, 2, 2, 0, 0, 1, 0, 1, 0, 0, 0, 0, -1, 2, 2, 0, 2, 2, 0, 2
80	289	25	1.24	GTTTCGGTGGAGGCTTTGGAGGGG	1, 0, 0, 0, 0, -1, 2, 2, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4
81	290	25	1.36	TTTTCGGTGGAGGCTTTGGAGGGGG	0, 0, 0, 0, -1, 2, 2, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4
82	291	25	1.32	TTTCGGTGGAGGCTTTGGAGGGGGC	0, 0, 0, -1, 2, 2, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1
83	292	25	1.36	TTTCGGTGGAGGCTTTGGAGGGGGCG	0, 0, -1, 2, 2, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 1
84	293	25	1.36	TCGGTGGAGGCTTTGGAGGGGGCGT	0, -1, 2, 2, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 1, 0
85	294	25	1.36	CGGTGGAGGCTTTGGAGGGGGCGTT	-1, 2, 2, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 1, 0, 0
86	295	25	1.48	GGTGGAGGCTTTGGAGGGGGCGTTG	2, 2, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 1, 0, 0, 2
87	296	25	1.48	GTGGAGGCTTTGGAGGGGGCGTTGG	2, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 1, 0, 0, 2, 2
88	297	25	1.40	TGGAGGCTTTGGAGGGGGCGTTGGT	0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 1, 0, 0, 2, 2, 0
89	298	25	1.56	GGAGGCTTTGGAGGGGGCGTTGGTG	2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 1, 0, 0, 2, 2, 0, 4
90	299	25	1.64	GAGGCTTTGGAGGGGGCGTTGGTGG	2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 1, 0, 0, 2, 2, 0, 4, 4
91	300	25	1.72	AGGCTTTGGAGGGGGCGTTGGTGGG	0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 1, 0, 0, 2, 2, 0, 4, 4, 4
92	301	25	1.88	GGCTTTGGAGGGGGCGTTGGTGGGG	2, 2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 1, 0, 0, 2, 2, 0, 4, 4, 4, 4
93	302	25	1.96	GCTTTGGAGGGGGCGTTGGTGGGGG	2, -1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 1, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4
94	303	25	1.88	CTTTGGAGGGGGCGTTGGTGGGGGT	-1, 0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 1, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 0
95	304	25	1.92	TTTGGAGGGGGCGTTGGTGGGGGTT	0, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 1, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 0, 0
96	305	25	1.92	TTGGAGGGGGCGTTGGTGGGGGTTT	0, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 1, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 0, 0, 0
97	306	25	1.92	TGGAGGGGGCGTTGGTGGGGGTTTT	0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 1, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 0, 0, 0, 0
98	307	25	2.00	GGAGGGGGCGTTGGTGGGGGTTTTG	2, 2, 0, 4, 4, 4, 4, 4, -1, 1, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 0, 0, 0, 0, 2
99	308	25	2.00	GAGGGGGCGTTGGTGGGGGTTTTGG	2, 0, 4, 4, 4, 4, 4, -1, 1, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 0, 0, 0, 0, 2, 2
100	309	25	1.92	AGGGGGCGTTGGTGGGGGTTTTGGT	0, 4, 4, 4, 4, 4, -1, 1, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 0, 0, 0, 0, 2, 2, 0
101	310	25	2.00	GGGGGCGTTGGTGGGGGTTTTGGTG	4, 4, 4, 4, 4, -1, 1, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 0, 0, 0, 0, 2, 2, 0, 2
102	311	25	1.92	GGGGCGTTGGTGGGGGTTTTGGTGG	4, 4, 4, 4, -1, 1, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 0, 0, 0, 0, 2, 2, 0, 2, 2
103	312	25	1.76	GGGCGTTGGTGGGGGTTTTGGTGGT	4, 4, 4, -1, 1, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 0, 0, 0, 0, 2, 2, 0, 2, 2, 0
104	313	25	1.68	GGCGTTGGTGGGGGTTTTGGTGGTG	4, 4, -1, 1, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 0, 0, 0, 0, 2, 2, 0, 2, 2, 0, 2
105	314	25	1.60	GCGTTGGTGGGGGTTTTGGTGGTGG	4, -1, 1, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 0, 0, 0, 0, 2, 2, 0, 2, 2, 0, 2, 2
106	315	25	1.40	CGTTGGTGGGGGTTTTGGTGGTGGC	-1, 1, 0, 0, 2, 2, 0, 4, 4, 4, 4, 4, 0, 0, 0, 0, 2, 2, 0, 2, 2, 0, 2, 2, -1

107	316	25	1.44	GTTGGTGGGGGTTTTGGTGGTGGCT	1, 0, 0, 2, 2, 0, 4, 4, 4, 4, 0, 0, 0, 0, 2, 2, 0, 2, 2, 0, 2, 2, -1, 0
108	317	25	1.40	TTGGTGGGGGTTTTGGTGGTGGCTT	0, 0, 2, 2, 0, 4, 4, 4, 4, 0, 0, 0, 0, 2, 2, 0, 2, 2, 0, 2, 2, -1, 0, 0
109	318	25	1.40	TGGTGGGGGTTTTGGTGGTGGCTTT	0, 2, 2, 0, 4, 4, 4, 4, 0, 0, 0, 0, 2, 2, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0
110	319	25	1.48	GGTGGGGGTTTTGGTGGTGGCTTTG	2, 2, 0, 4, 4, 4, 4, 4, 0, 0, 0, 0, 2, 2, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2
111	320	25	1.48	GTGGGGGTTTTGGTGGTGGCTTTGG	2, 0, 4, 4, 4, 4, 4, 0, 0, 0, 0, 2, 2, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2
112	321	25	1.40	TGGGGGTTTTGGTGGTGGCTTTGGT	0, 4, 4, 4, 4, 4, 0, 0, 0, 0, 2, 2, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0
113	322	25	1.48	GGGGGTTTTGGTGGTGGCTTTGGTG	4, 4, 4, 4, 4, 0, 0, 0, 0, 2, 2, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 2
114	323	25	1.40	GGGGTTTTTGGTGGTGGCTTTGGTGG	4, 4, 4, 4, 0, 0, 0, 0, 2, 2, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 2, 2
115	324	25	1.24	GGGTTTTTGGTGGTGGCTTTGGTGGT	4, 4, 4, 0, 0, 0, 0, 2, 2, 0, 2, 2, 0, 2, 2, -1, 0, 0, 0, 2, 2, 0, 2, 2, 0
116	485	25	-1.20	ACCAGAAGCAGACCCCAACCAGCCC	0, -2, -2, 0, 1, 0, 0, 1, -1, 0, 1, 0, -4, -4, -4, -4, 0, 0, -2, -2, 0, 1, -3, -3, -3
117	486	25	-1.20	CCAGAAGCAGACCCCAACCAGCCCA	-2, -2, 0, 1, 0, 0, 1, -1, 0, 1, 0, -4, -4, -4, -4, 0, 0, -2, -2, 0, 1, -3, -3, -3, 0
118	744	25	1.24	CTCAACTTGGTGGTGCTGGGGGAGG	-1, 0, -1, 0, 0, -1, 0, 0, 2, 2, 0, 2, 2, 0, 1, -1, 0, 4, 4, 4, 4, 4, 0, 3, 3
119	745	25	1.40	TCAACTTGGTGGTGCTGGGGGAGGG	0, -1, 0, 0, -1, 0, 0, 2, 2, 0, 2, 2, 0, 1, -1, 0, 4, 4, 4, 4, 4, 0, 3, 3, 3
120	746	25	1.40	CAACTTGGTGGTGCTGGGGGAGGGA	-1, 0, 0, -1, 0, 0, 2, 2, 0, 2, 2, 0, 1, -1, 0, 4, 4, 4, 4, 4, 0, 3, 3, 3, 0
121	747	25	1.48	AACTTGGTGGTGCTGGGGGAGGGAG	0, 0, -1, 0, 0, 2, 2, 0, 2, 2, 0, 1, -1, 0, 4, 4, 4, 4, 4, 0, 3, 3, 3, 0, 1
122	748	25	1.48	ACTTGGTGGTGCTGGGGGAGGGAGA	0, -1, 0, 0, 2, 2, 0, 2, 2, 0, 1, -1, 0, 4, 4, 4, 4, 4, 0, 3, 3, 3, 0, 1, 0
123	749	25	1.52	CTTGGTGGTGCTGGGGGAGGGAGAG	-1, 0, 0, 2, 2, 0, 2, 2, 0, 1, -1, 0, 4, 4, 4, 4, 4, 0, 3, 3, 3, 0, 1, 0, 1
124	750	25	1.56	TTGGTGGTGCTGGGGGAGGGAGAGA	0, 0, 2, 2, 0, 2, 2, 0, 1, -1, 0, 4, 4, 4, 4, 4, 0, 3, 3, 3, 0, 1, 0, 1, 0
125	751	25	1.72	TGGTGGTGCTGGGGGAGGGAGAGAG	0, 2, 2, 0, 2, 2, 0, 1, -1, 0, 4, 4, 4, 4, 4, 0, 3, 3, 3, 0, 1, 0, 1, 0, 4
126	752	25	1.88	GGTGGTGCTGGGGGAGGGAGAGAGG	2, 2, 0, 2, 2, 0, 1, -1, 0, 4, 4, 4, 4, 4, 0, 3, 3, 3, 0, 1, 0, 1, 0, 4, 4
127	753	25	1.96	GTGGTGCTGGGGGAGGGAGAGAGGG	2, 0, 2, 2, 0, 1, -1, 0, 4, 4, 4, 4, 4, 0, 3, 3, 3, 0, 1, 0, 1, 0, 4, 4, 4
128	754	25	2.04	TGGTGCTGGGGGAGGGAGAGAGGGG	0, 2, 2, 0, 1, -1, 0, 4, 4, 4, 4, 4, 0, 3, 3, 3, 0, 1, 0, 1, 0, 4, 4, 4, 4
129	755	25	2.04	GGTGCTGGGGGAGGGAGAGAGGGGT	2, 2, 0, 1, -1, 0, 4, 4, 4, 4, 4, 0, 3, 3, 3, 0, 1, 0, 1, 0, 4, 4, 4, 4, 0
130	756	25	1.92	GTGCTGGGGGAGGGAGAGAGGGGTC	2, 0, 1, -1, 0, 4, 4, 4, 4, 4, 0, 3, 3, 3, 0, 1, 0, 1, 0, 4, 4, 4, 4, 0, -1
131	757	25	1.84	TGCTGGGGGAGGGAGAGAGGGGTCT	0, 1, -1, 0, 4, 4, 4, 4, 4, 0, 3, 3, 3, 0, 1, 0, 1, 0, 4, 4, 4, 4, 0, -1, 0
132	758	25	1.84	GCTGGGGGAGGGAGAGAGGGGTCTT	1, -1, 0, 4, 4, 4, 4, 4, 0, 3, 3, 3, 0, 1, 0, 1, 0, 4, 4, 4, 4, 0, -1, 0, 0
133	759	25	1.92	CTGGGGGAGGGAGAGAGGGGTCTTG	-1, 0, 4, 4, 4, 4, 4, 0, 3, 3, 3, 0, 1, 0, 1, 0, 4, 4, 4, 4, 0, -1, 0, 0, 3
134	760	25	2.08	TGGGGGAGGGAGAGAGGGGTCTTGG	0, 4, 4, 4, 4, 4, 0, 3, 3, 3, 0, 1, 0, 1, 0, 4, 4, 4, 4, 0, -1, 0, 0, 3, 3
135	761	25	2.20	GGGGGAGGGAGAGAGGGGTCTTGGG	4, 4, 4, 4, 4, 0, 3, 3, 3, 0, 1, 0, 1, 0, 4, 4, 4, 4, 0, -1, 0, 0, 3, 3, 3
136	762	25	2.04	GGGGAGGGAGAGAGGGGTCTTGGGA	4, 4, 4, 4, 0, 3, 3, 3, 0, 1, 0, 1, 0, 4, 4, 4, 4, 0, -1, 0, 0, 3, 3, 3, 0
137	763	25	1.88	GGGAGGGAGAGAGGGGTCTTGGGAA	4, 4, 4, 0, 3, 3, 3, 0, 1, 0, 1, 0, 4, 4, 4, 4, 0, -1, 0, 0, 3, 3, 3, 0, 0
138	764	25	1.72	GGAGGGAGAGAGGGGTCTTGGGAAT	4, 4, 0, 3, 3, 3, 0, 1, 0, 1, 0, 4, 4, 4, 4, 0, -1, 0, 0, 3, 3, 3, 0, 0, 0
139	765	25	1.52	GAGGGAGAGAGGGGTCTTGGGAATC	4, 0, 3, 3, 3, 0, 1, 0, 1, 0, 4, 4, 4, 4, 0, -1, 0, 0, 3, 3, 3, 0, 0, 0, -1
140	766	25	1.36	AGGGAGAGAGGGGTCTTGGGAATCT	0, 3, 3, 3, 0, 1, 0, 1, 0, 4, 4, 4, 4, 0, -1, 0, 0, 3, 3, 3, 0, 0, 0, -1, 0
141	767	25	1.44	GGGAGAGAGGGGTCTTGGGAATCTG	3, 3, 3, 0, 1, 0, 1, 0, 4, 4, 4, 4, 0, -1, 0, 0, 3, 3, 3, 0, 0, 0, -1, 0, 2
142	768	25	1.40	GGAGAGAGGGGTCTTGGGAATCTGG	3, 3, 0, 1, 0, 1, 0, 4, 4, 4, 4, 0, -1, 0, 0, 3, 3, 3, 0, 0, 0, -1, 0, 2, 2

143	769	25	1.28	GAGAGAGGGGTCTTGGAATCTGGT	3, 0, 1, 0, 1, 0, 4, 4, 4, 4, 0, -1, 0, 0, 3, 3, 3, 0, 0, 0, -1, 0, 2, 2, 0
144	772	25	1.20	AGAGGGGTCTTGGAATCTGGTTAG	0, 1, 0, 4, 4, 4, 4, 0, -1, 0, 0, 3, 3, 3, 0, 0, 0, -1, 0, 2, 2, 0, 0, 0, 2
145	773	25	1.28	GAGGGGTCTTGGAATCTGGTTAGG	1, 0, 4, 4, 4, 4, 0, -1, 0, 0, 3, 3, 3, 0, 0, 0, -1, 0, 2, 2, 0, 0, 0, 2, 2
146	774	25	1.24	AGGGGTCTTGGAATCTGGTTAGGA	0, 4, 4, 4, 4, 0, -1, 0, 0, 3, 3, 3, 0, 0, 0, -1, 0, 2, 2, 0, 0, 0, 2, 2, 0
147	795	25	1.32	AGGACCAACAGGGGCACAGGTGGGG	0, 2, 2, 0, -2, -2, 0, 0, -1, 0, 4, 4, 4, 4, -1, 0, -1, 0, 2, 2, 0, 4, 4, 4, 4
148	796	25	1.48	GGACCAACAGGGGCACAGGTGGGGG	2, 2, 0, -2, -2, 0, 0, -1, 0, 4, 4, 4, 4, -1, 0, -1, 0, 2, 2, 0, 4, 4, 4, 4, 4
149	797	25	1.36	GACCAACAGGGGCACAGGTGGGGGC	2, 0, -2, -2, 0, 0, -1, 0, 4, 4, 4, 4, -1, 0, -1, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1
150	798	25	1.28	ACCAACAGGGGCACAGGTGGGGGCA	0, -2, -2, 0, 0, -1, 0, 4, 4, 4, 4, -1, 0, -1, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 0
151	799	25	1.28	CCAACAGGGGCACAGGTGGGGGCAA	-2, -2, 0, 0, -1, 0, 4, 4, 4, 4, -1, 0, -1, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 0, 0
152	800	25	1.36	CAACAGGGGCACAGGTGGGGGCAAT	-2, 0, 0, -1, 0, 4, 4, 4, 4, -1, 0, -1, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 0, 0, 0
153	801	25	1.44	AACAGGGGCACAGGTGGGGGCAATT	0, 0, -1, 0, 4, 4, 4, 4, -1, 0, -1, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 0, 0, 0, 0
154	802	25	1.44	ACAGGGGCACAGGTGGGGGCAATTA	0, -1, 0, 4, 4, 4, 4, -1, 0, -1, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 0, 0, 0, 0, 0
155	803	25	1.44	CAGGGGCACAGGTGGGGGCAATTAT	-1, 0, 4, 4, 4, 4, -1, 0, -1, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 0, 0, 0, 0, 0, 0
156	804	25	1.48	AGGGGCACAGGTGGGGGCAATTATA	0, 4, 4, 4, 4, -1, 0, -1, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 0, 0, 0, 0, 0, 0, 0
157	805	25	1.48	GGGGCACAGGTGGGGGCAATTATAA	4, 4, 4, 4, -1, 0, -1, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 0, 0, 0, 0, 0, 0, 0, 0
158	806	25	1.32	GGGCACAGGTGGGGGCAATTATAAA	4, 4, 4, -1, 0, -1, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 0, 0, 0, 0, 0, 0, 0, 0, 0
159	807	25	1.20	GGCACAGGTGGGGGCAATTATAAAG	4, 4, -1, 0, -1, 0, 2, 2, 0, 4, 4, 4, 4, 4, -1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1
160	870	25	1.20	TTGGGGGGCCAAGGTGATAGGATTG	0, 0, 4, 4, 4, 4, 4, 4, -2, -2, 0, 0, 2, 2, 0, 1, 0, 0, 0, 2, 2, 0, 0, 0, 1
161	1011	25	-1.20	ACTCGCCCTCCCTACCTCATGCACC	0, -1, 0, -1, 1, -3, -3, -3, 0, -3, -3, -3, 0, 0, -2, -2, 0, -1, 0, 0, 1, -1, 0, -3, -3
162	1012	25	-1.32	CTCGCCCTCCCTACCTCATGCACCC	-1, 0, -1, 1, -3, -3, -3, 0, -3, -3, -3, 0, 0, -2, -2, 0, -1, 0, 0, 1, -1, 0, -3, -3, -3
163	1013	25	-1.28	TCGCCCTCCCTACCTCATGCACCCT	0, -1, 1, -3, -3, -3, 0, -3, -3, -3, 0, 0, -2, -2, 0, -1, 0, 0, 1, -1, 0, -3, -3, -3, 0
164	1014	25	-1.24	CGCCCTCCCTACCTCATGCACCCTG	-1, 1, -3, -3, -3, 0, -3, -3, -3, 0, 0, -2, -2, 0, -1, 0, 0, 1, -1, 0, -3, -3, -3, 0, 1
165	1015	25	-1.24	GCCCTCCCTACCTCATGCACCCTGC	1, -3, -3, -3, 0, -3, -3, -3, 0, 0, -2, -2, 0, -1, 0, 0, 1, -1, 0, -3, -3, -3, 0, 1, -1
166	1016	25	-1.28	CCCTCCCTACCTCATGCACCCTGCA	-3, -3, -3, 0, -3, -3, -3, 0, 0, -2, -2, 0, -1, 0, 0, 1, -1, 0, -3, -3, -3, 0, 1, -1, 0
167	1401	25	-1.20	AGCTGGCTGCACCCCCTGCCCCAC	0, 1, -1, 0, 2, 2, -1, 0, 1, -1, 0, -4, -4, -4, -4, 0, -1, 0, 1, -4, -4, -4, -4, 0, -1
168	1402	25	-1.20	GCTGGCTGCACCCCCTGCCCCACT	1, -1, 0, 2, 2, -1, 0, 1, -1, 0, -4, -4, -4, -4, 0, -1, 0, 1, -4, -4, -4, -4, 0, -1, 0
169	1403	25	-1.28	CTGGCTGCACCCCCTGCCCCACTC	-1, 0, 2, 2, -1, 0, 1, -1, 0, -4, -4, -4, -4, 0, -1, 0, 1, -4, -4, -4, -4, 0, -1, 0, -1
170	1404	25	-1.24	TGGCTGCACCCCCTGCCCCACTCT	0, 2, 2, -1, 0, 1, -1, 0, -4, -4, -4, -4, 0, -1, 0, 1, -4, -4, -4, -4, 0, -1, 0, -1, 0
171	1405	25	-1.32	GGCTGCACCCCCTGCCCCACTCTC	2, 2, -1, 0, 1, -1, 0, -4, -4, -4, -4, 0, -1, 0, 1, -4, -4, -4, -4, 0, -1, 0, -1, 0, -2
172	1406	25	-1.48	GCTGCACCCCCTGCCCCACTCTCC	2, -1, 0, 1, -1, 0, -4, -4, -4, -4, 0, -1, 0, 1, -4, -4, -4, -4, 0, -1, 0, -1, 0, -2, -2
173	1407	25	-1.56	CTGCACCCCCTGCCCCACTCTCCT	-1, 0, 1, -1, 0, -4, -4, -4, -4, 0, -1, 0, 1, -4, -4, -4, -4, 0, -1, 0, -1, 0, -2, -2, 0
174	1408	25	-1.40	TGCACCCCCTGCCCCACTCTCCTG	0, 1, -1, 0, -4, -4, -4, -4, 0, -1, 0, 1, -4, -4, -4, -4, 0, -1, 0, -1, 0, -2, -2, 0, 3
175	1409	25	-1.28	GCACCCCCTGCCCCACTCTCCTGG	1, -1, 0, -4, -4, -4, -4, 0, -1, 0, 1, -4, -4, -4, -4, 0, -1, 0, -1, 0, -2, -2, 0, 3, 3
176	1410	25	-1.20	CACCCCCTGCCCCACTCTCCTGGG	-1, 0, -4, -4, -4, -4, 0, -1, 0, 1, -4, -4, -4, -4, 0, -1, 0, -1, 0, -2, -2, 0, 3, 3, 3
177	1411	25	-1.20	ACCCCCTGCCCCACTCTCCTGGGC	0, -4, -4, -4, -4, 0, -1, 0, 1, -4, -4, -4, -4, 0, -1, 0, -1, 0, -2, -2, 0, 3, 3, 3, -1
178	1412	25	-1.20	CCCCCTGCCCCACTCTCCTGGGCA	-4, -4, -4, -4, 0, -1, 0, 1, -4, -4, -4, -4, 0, -1, 0, -1, 0, -2, -2, 0, 3, 3, 3, -1, 0

179	1608	25	1.24	TCAGAGGGGTGATTGTCAGTGAGGG	0, -1, 0, 1, 0, 4, 4, 4, 4, 0, 1, 0, 0, 0, 1, 0, -1, 0, 1, 0, 1, 0, 4, 4, 4
180	1609	25	1.40	CAGAGGGGTGATTGTCAGTGAGGGG	-1, 0, 1, 0, 4, 4, 4, 4, 0, 1, 0, 0, 0, 1, 0, -1, 0, 1, 0, 1, 0, 4, 4, 4, 4
181	1610	25	1.44	AGAGGGGTGATTGTCAGTGAGGGGT	0, 1, 0, 4, 4, 4, 4, 0, 1, 0, 0, 0, 1, 0, -1, 0, 1, 0, 1, 0, 4, 4, 4, 0
182	1611	25	1.48	GAGGGGTGATTGTCAGTGAGGGGTG	1, 0, 4, 4, 4, 4, 0, 1, 0, 0, 0, 1, 0, -1, 0, 1, 0, 1, 0, 4, 4, 4, 0, 1
183	1612	25	1.44	AGGGGTGATTGTCAGTGAGGGGTGA	0, 4, 4, 4, 4, 0, 1, 0, 0, 0, 1, 0, -1, 0, 1, 0, 1, 0, 4, 4, 4, 4, 0, 1, 0
184	1613	25	1.44	GGGGTGATTGTCAGTGAGGGGTGAT	4, 4, 4, 4, 0, 1, 0, 0, 0, 1, 0, -1, 0, 1, 0, 1, 0, 4, 4, 4, 4, 0, 1, 0, 0
185	1614	25	1.28	GGGTGATTGTCAGTGAGGGGTGATT	4, 4, 4, 0, 1, 0, 0, 0, 1, 0, -1, 0, 1, 0, 1, 0, 4, 4, 4, 4, 0, 1, 0, 0, 0
186	1625	25	1.24	AGTGAGGGGTGATTTTCAATGAGGG	0, 1, 0, 1, 0, 4, 4, 4, 4, 0, 1, 0, 0, 0, 0, 0, -1, 0, 0, 0, 1, 0, 4, 4, 4
187	1626	25	1.40	GTGAGGGGTGATTTTCAATGAGGGG	1, 0, 1, 0, 4, 4, 4, 4, 0, 1, 0, 0, 0, 0, 0, -1, 0, 0, 0, 1, 0, 4, 4, 4, 4
188	1627	25	1.32	TGAGGGGTGATTTTCAATGAGGGGC	0, 1, 0, 4, 4, 4, 4, 0, 1, 0, 0, 0, 0, 0, -1, 0, 0, 0, 1, 0, 4, 4, 4, 4, -1
189	1628	25	1.32	GAGGGGTGATTTTCAATGAGGGGCT	1, 0, 4, 4, 4, 4, 0, 1, 0, 0, 0, 0, 0, -1, 0, 0, 0, 1, 0, 4, 4, 4, 4, -1, 0
190	1629	25	1.36	AGGGGTGATTTTCAATGAGGGGCTG	0, 4, 4, 4, 4, 0, 1, 0, 0, 0, 0, 0, -1, 0, 0, 0, 1, 0, 4, 4, 4, 4, -1, 0, 2
191	1630	25	1.44	GGGGTGATTTTCAATGAGGGGCTGG	4, 4, 4, 4, 0, 1, 0, 0, 0, 0, 0, -1, 0, 0, 0, 1, 0, 4, 4, 4, 4, -1, 0, 2, 2
192	1631	25	1.20	GGGTGATTTTCAATGAGGGGCTGGC	4, 4, 4, 0, 1, 0, 0, 0, 0, 0, -1, 0, 0, 0, 1, 0, 4, 4, 4, 4, -1, 0, 2, 2, -2
193	1812	25	-1.28	CGCTCCCCCGTCTCTCTCCTCTTCC	-1, 1, -1, 0, -4, -4, -4, -4, -4, 1, 0, -1, 0, -1, 0, -1, 0, -2, -2, 0, -1, 0, 0, -2, -2
194	1813	25	-1.24	GCTCCCCCGTCTCTCTCCTCTTCCCT	1, -1, 0, -4, -4, -4, -4, -4, 1, 0, -1, 0, -1, 0, -1, 0, -2, -2, 0, -1, 0, 0, -2, -2, 0
195	1814	25	-1.24	CTCCCCCGTCTCTCTCCTCTTCCCTG	-1, 0, -4, -4, -4, -4, -4, 1, 0, -1, 0, -1, 0, -1, 0, -2, -2, 0, -1, 0, 0, -2, -2, 0, 1
196	1815	25	-1.24	TCCCCCGTCTCTCTCCTCTTCCCTGC	0, -4, -4, -4, -4, -4, 1, 0, -1, 0, -1, 0, -1, 0, -2, -2, 0, -1, 0, 0, -2, -2, 0, 1, -1
197	1816	25	-1.24	CCCCCGTCTCTCTCCTCTTCCCTGCA	-4, -4, -4, -4, -4, 1, 0, -1, 0, -1, 0, -1, 0, -2, -2, 0, -1, 0, 0, -2, -2, 0, 1, -1, 0
198	1880	25	-1.24	GCAGCCAAGACCCCTCCCACCTTCCT	2, -1, 0, 1, -2, -2, 0, 0, 1, 0, -4, -4, -4, -4, 0, -3, -3, -3, 0, -1, 0, 0, -2, -2, 0
199	1881	25	-1.32	CAGCCAAGACCCCTCCCACCTTCCTT	-1, 0, 1, -2, -2, 0, 0, 1, 0, -4, -4, -4, -4, 0, -3, -3, -3, 0, -1, 0, 0, -2, -2, 0, 0
200	1882	25	-1.32	AGCCAAGACCCCTCCCACCTTCCTTC	0, 1, -2, -2, 0, 0, 1, 0, -4, -4, -4, -4, 0, -3, -3, -3, 0, -1, 0, 0, -2, -2, 0, 0, -1
201	1883	25	-1.32	GCCAAGACCCCTCCCACCTTCCTTCT	1, -2, -2, 0, 0, 1, 0, -4, -4, -4, -4, 0, -3, -3, -3, 0, -1, 0, 0, -2, -2, 0, 0, -1, 0
202	1884	25	-1.36	CCAAGACCCCTCCCACCTTCCTTCTT	-2, -2, 0, 0, 1, 0, -4, -4, -4, -4, 0, -3, -3, -3, 0, -1, 0, 0, -2, -2, 0, 0, -1, 0, 0
203	1885	25	-1.28	CAAGACCCCTCCCACCTTCCTTCTTT	-2, 0, 0, 1, 0, -4, -4, -4, -4, 0, -3, -3, -3, 0, -1, 0, 0, -2, -2, 0, 0, -1, 0, 0, 0
204	1889	25	-1.24	ACCCCTCCCACCTTCCTTCTTTGGCC	0, -4, -4, -4, -4, 0, -3, -3, -3, 0, -1, 0, 0, -2, -2, 0, 0, -1, 0, 0, 0, 2, 2, -2, -2
205	1890	25	-1.24	CCCCTCCCACCTTCCTTCTTTGGCCT	-4, -4, -4, -4, 0, -3, -3, -3, 0, -1, 0, 0, -2, -2, 0, 0, -1, 0, 0, 0, 2, 2, -2, -2, 0
206	1891	25	-1.20	CCCTCCCACCTTCCTTCTTTGGCCTC	-4, -4, -4, 0, -3, -3, -3, 0, -1, 0, 0, -2, -2, 0, 0, -1, 0, 0, 0, 2, 2, -2, -2, 0, -3
207	2085	25	-1.20	TGAGAGCTGGCCCCCATCACCCCTG	0, 1, 0, 1, 0, 1, -1, 0, 2, 2, -4, -4, -4, -4, -4, 0, 0, -1, 0, -4, -4, -4, -4, 0, 1
208	2086	25	-1.20	GAGAGCTGGCCCCCATCACCCCTGA	1, 0, 1, 0, 1, -1, 0, 2, 2, -4, -4, -4, -4, -4, 0, 0, -1, 0, -4, -4, -4, -4, 0, 1, 0
209	2087	25	-1.24	AGAGCTGGCCCCCATCACCCCTGAA	0, 1, 0, 1, -1, 0, 2, 2, -4, -4, -4, -4, -4, 0, 0, -1, 0, -4, -4, -4, -4, 0, 1, 0, 0
210	2088	25	-1.36	GAGCTGGCCCCCATCACCCCTGAAC	1, 0, 1, -1, 0, 2, 2, -4, -4, -4, -4, -4, 0, 0, -1, 0, -4, -4, -4, -4, 0, 1, 0, 0, -3
211	2089	25	-1.52	AGCTGGCCCCCATCACCCCTGAACC	0, 1, -1, 0, 2, 2, -4, -4, -4, -4, -4, 0, 0, -1, 0, -4, -4, -4, -4, 0, 1, 0, 0, -3, -3
212	2090	25	-1.64	GCTGGCCCCCATCACCCCTGAACCC	1, -1, 0, 2, 2, -4, -4, -4, -4, -4, 0, 0, -1, 0, -4, -4, -4, -4, 0, 1, 0, 0, -3, -3, -3
213	2091	25	-1.64	CTGGCCCCCATCACCCCTGAACCCG	-1, 0, 2, 2, -4, -4, -4, -4, -4, 0, 0, -1, 0, -4, -4, -4, -4, 0, 1, 0, 0, -3, -3, -3, 1
214	2092	25	-1.60	TGGCCCCCATCACCCCTGAACCCGA	0, 2, 2, -4, -4, -4, -4, -4, 0, 0, -1, 0, -4, -4, -4, -4, 0, 1, 0, 0, -3, -3, -3, 1, 0

215	2093	25	-1.56	GGCCCCCATCACCCCTGAACCCGAG	2, 2, -4, -4, -4, -4, 0, 0, -1, 0, -4, -4, -4, -4, 0, 1, 0, 0, -3, -3, -3, 1, 0, 1
216	2094	25	-1.64	GCCCCCATCACCCCTGAACCCGAGA	2, -4, -4, -4, -4, -4, 0, 0, -1, 0, -4, -4, -4, -4, 0, 1, 0, 0, -3, -3, -3, 1, 0, 1, 0
217	2095	25	-1.68	CCCCCATCACCCCTGAACCCGAGAG	-4, -4, -4, -4, -4, 0, 0, -1, 0, -4, -4, -4, -4, 0, 1, 0, 0, -3, -3, -3, 1, 0, 1, 0, 1
218	2096	25	-1.52	CCCCATCACCCCTGAACCCGAGAGA	-4, -4, -4, -4, 0, 0, -1, 0, -4, -4, -4, -4, 0, 1, 0, 0, -3, -3, -3, 1, 0, 1, 0, 1, 0
219	2097	25	-1.28	CCCATCACCCCTGAACCCGAGAGAG	-4, -4, -4, 0, 0, -1, 0, -4, -4, -4, -4, 0, 1, 0, 0, -3, -3, -3, 1, 0, 1, 0, 1, 0, 2
220	2208	25	1.24	TAAGTCAGTGGGAGGCAGAGTGGGG	0, 0, 0, 1, 0, -1, 0, 1, 0, 3, 3, 3, 0, 2, 2, -1, 0, 1, 0, 1, 0, 4, 4, 4, 4
221	2209	25	1.20	AAGTCAGTGGGAGGCAGAGTGGGGC	0, 0, 1, 0, -1, 0, 1, 0, 3, 3, 3, 0, 2, 2, -1, 0, 1, 0, 1, 0, 4, 4, 4, 4, -1
222	2210	25	1.20	AGTCAGTGGGAGGCAGAGTGGGGCT	0, 1, 0, -1, 0, 1, 0, 3, 3, 3, 0, 2, 2, -1, 0, 1, 0, 1, 0, 4, 4, 4, 4, -1, 0
223	2211	25	1.24	GTCAGTGGGAGGCAGAGTGGGGCTG	1, 0, -1, 0, 1, 0, 3, 3, 3, 0, 2, 2, -1, 0, 1, 0, 1, 0, 4, 4, 4, 4, -1, 0, 1
224	2212	25	1.20	TCAGTGGGAGGCAGAGTGGGGCTGT	0, -1, 0, 1, 0, 3, 3, 3, 0, 2, 2, -1, 0, 1, 0, 1, 0, 4, 4, 4, 4, -1, 0, 1, 0
225	2213	25	1.20	CAGTGGGAGGCAGAGTGGGGCTGTT	-1, 0, 1, 0, 3, 3, 3, 0, 2, 2, -1, 0, 1, 0, 1, 0, 4, 4, 4, 4, -1, 0, 1, 0, 0
226	2214	25	1.32	AGTGGGAGGCAGAGTGGGGCTGTTG	0, 1, 0, 3, 3, 3, 0, 2, 2, -1, 0, 1, 0, 1, 0, 4, 4, 4, 4, -1, 0, 1, 0, 0, 2
227	2215	25	1.40	GTGGGAGGCAGAGTGGGGCTGTTGG	1, 0, 3, 3, 3, 0, 2, 2, -1, 0, 1, 0, 1, 0, 4, 4, 4, 4, -1, 0, 1, 0, 0, 2, 2
228	2216	25	1.36	TGGGAGGCAGAGTGGGGCTGTTGGT	0, 3, 3, 3, 0, 2, 2, -1, 0, 1, 0, 1, 0, 4, 4, 4, 4, -1, 0, 1, 0, 0, 2, 2, 0
229	2217	25	1.36	GGGAGGCAGAGTGGGGCTGTTGGTA	3, 3, 3, 0, 2, 2, -1, 0, 1, 0, 1, 0, 4, 4, 4, 4, -1, 0, 1, 0, 0, 2, 2, 0, 0
230	2218	25	1.20	GGAGGCAGAGTGGGGCTGTTGGTAC	3, 3, 0, 2, 2, -1, 0, 1, 0, 1, 0, 4, 4, 4, 4, -1, 0, 1, 0, 0, 2, 2, 0, 0, -1
231	2503	25	1.28	TGTGCAATGGGGAACAGCGGTTGGG	0, 1, 0, 1, -1, 0, 0, 0, 4, 4, 4, 4, 0, 0, -1, 0, 1, -1, 2, 2, 0, 0, 4, 4, 4
232	2504	25	1.44	GTGCAATGGGGAACAGCGGTTGGGG	1, 0, 1, -1, 0, 0, 0, 4, 4, 4, 4, 0, 0, -1, 0, 1, -1, 2, 2, 0, 0, 4, 4, 4, 4
233	2505	25	1.40	TGCAATGGGGAACAGCGGTTGGGGT	0, 1, -1, 0, 0, 0, 4, 4, 4, 4, 0, 0, -1, 0, 1, -1, 2, 2, 0, 0, 4, 4, 4, 4, 0
234	2506	25	1.44	GCAATGGGGAACAGCGGTTGGGGTG	1, -1, 0, 0, 0, 4, 4, 4, 4, 0, 0, -1, 0, 1, -1, 2, 2, 0, 0, 4, 4, 4, 4, 0, 1
235	2507	25	1.40	CAATGGGGAACAGCGGTTGGGGTGT	-1, 0, 0, 0, 4, 4, 4, 4, 0, 0, -1, 0, 1, -1, 2, 2, 0, 0, 4, 4, 4, 4, 0, 1, 0
236	2508	25	1.48	AATGGGGAACAGCGGTTGGGGTGTG	0, 0, 0, 4, 4, 4, 4, 0, 0, -1, 0, 1, -1, 2, 2, 0, 0, 4, 4, 4, 4, 0, 1, 0, 1
237	2509	25	1.48	ATGGGGAACAGCGGTTGGGGTGTGT	0, 0, 4, 4, 4, 4, 0, 0, -1, 0, 1, -1, 2, 2, 0, 0, 4, 4, 4, 4, 0, 1, 0, 1, 0
238	2510	25	1.48	TGGGGAACAGCGGTTGGGGTGTGTT	0, 4, 4, 4, 4, 0, 0, -1, 0, 1, -1, 2, 2, 0, 0, 4, 4, 4, 4, 0, 1, 0, 1, 0, 0
239	2511	25	1.48	GGGGAACAGCGGTTGGGGTGTGTTA	4, 4, 4, 4, 0, 0, -1, 0, 1, -1, 2, 2, 0, 0, 4, 4, 4, 4, 0, 1, 0, 1, 0, 0, 0
240	2512	25	1.28	GGGAACAGCGGTTGGGGTGTGTTAC	4, 4, 4, 0, 0, -1, 0, 1, -1, 2, 2, 0, 0, 4, 4, 4, 4, 0, 1, 0, 1, 0, 0, 0, -1
241	2513	25	1.24	GGAACAGCGGTTGGGGTGTGTTACG	4, 4, 0, 0, -1, 0, 1, -1, 2, 2, 0, 0, 4, 4, 4, 4, 0, 1, 0, 1, 0, 0, 0, -1, 3
242	2514	25	1.20	GAACAGCGGTTGGGGTGTGTTACGG	4, 0, 0, -1, 0, 1, -1, 2, 2, 0, 0, 4, 4, 4, 4, 0, 1, 0, 1, 0, 0, 0, -1, 3, 3
243	2518	25	1.20	AGCGGTTGGGGTGTGTTACGGGCAG	0, 1, -1, 2, 2, 0, 0, 4, 4, 4, 4, 0, 1, 0, 1, 0, 0, 0, -1, 3, 3, 3, -1, 0, 1
244	2519	25	1.20	GCGGTTGGGGTGTGTTACGGGCAGA	1, -1, 2, 2, 0, 0, 4, 4, 4, 4, 0, 1, 0, 1, 0, 0, 0, -1, 3, 3, 3, -1, 0, 1, 0
245	2520	25	1.20	CGGTTGGGGTGTGTTACGGGCAGAG	-1, 2, 2, 0, 0, 4, 4, 4, 4, 0, 1, 0, 1, 0, 0, 0, -1, 3, 3, 3, -1, 0, 1, 0, 1
246	2796	25	-1.24	TATATCCTGCCCTGCCCTTCCTGCC	0, 0, 0, 0, 0, -2, -2, 0, 1, -3, -3, -3, 0, 1, -3, -3, -3, 0, 0, -2, -2, 0, 1, -4, -4
247	2797	25	-1.40	ATATCCTGCCCTGCCCTTCCTGCCC	0, 0, 0, 0, -2, -2, 0, 1, -3, -3, -3, 0, 1, -3, -3, -3, 0, 0, -2, -2, 0, 1, -4, -4, -4
248	2798	25	-1.56	TATCCTGCCCTGCCCTTCCTGCCCC	0, 0, 0, -2, -2, 0, 1, -3, -3, -3, 0, 1, -3, -3, -3, 0, 0, -2, -2, 0, 1, -4, -4, -4, -4
249	2799	25	-1.56	ATCCTGCCCTGCCCTTCCTGCCCCA	0, 0, -2, -2, 0, 1, -3, -3, -3, 0, 1, -3, -3, -3, 0, 0, -2, -2, 0, 1, -4, -4, -4, -4, 0
250	2800	25	-1.48	TCCTGCCCTGCCCTTCCTGCCCCAG	0, -2, -2, 0, 1, -3, -3, -3, 0, 1, -3, -3, -3, 0, 0, -2, -2, 0, 1, -4, -4, -4, -4, 0, 2



251	2801	25	-1.40	CCTGCCCTGCCCTTCCTGCCCCAGG	-2, -2, 0, 1, -3, -3, -3, 0, 1, -3, -3, -3, 0, 0, -2, -2, 0, 1, -4, -4, -4, -4, 0, 2, 2, 0
252	2802	25	-1.32	CTGCCCTGCCCTTCCTGCCCCAGGT	-2, 0, 1, -3, -3, -3, 0, 1, -3, -3, -3, 0, 0, -2, -2, 0, 1, -4, -4, -4, -4, 0, 2, 2, 0
253	2803	25	-1.36	TGCCCTGCCCTTCCTGCCCCAGGTC	0, 1, -3, -3, -3, 0, 1, -3, -3, -3, 0, 0, -2, -2, 0, 1, -4, -4, -4, -4, 0, 2, 2, 0, -3
254	2804	25	-1.48	GCCCTGCCCTTCCTGCCCCAGGTCC	1, -3, -3, -3, 0, 1, -3, -3, -3, 0, 0, -2, -2, 0, 1, -4, -4, -4, -4, 0, 2, 2, 0, -3, -3
255	2805	25	-1.64	CCCTGCCCTTCCTGCCCCAGGTCCC	-3, -3, -3, 0, 1, -3, -3, -3, 0, 0, -2, -2, 0, 1, -4, -4, -4, -4, 0, 2, 2, 0, -3, -3, -3
256	2806	25	-1.52	CCTGCCCTTCCTGCCCCAGGTCCCT	-3, -3, 0, 1, -3, -3, -3, 0, 0, -2, -2, 0, 1, -4, -4, -4, -4, 0, 2, 2, 0, -3, -3, -3, 0
257	2807	25	-1.36	CTGCCCTTCCTGCCCCAGGTCCCTG	-3, 0, 1, -3, -3, -3, 0, 0, -2, -2, 0, 1, -4, -4, -4, -4, 0, 2, 2, 0, -3, -3, -3, 0, 1
258	2808	25	-1.24	TGCCCTTCCTGCCCCAGGTCCCTGA	0, 1, -3, -3, -3, 0, 0, -2, -2, 0, 1, -4, -4, -4, -4, 0, 2, 2, 0, -3, -3, -3, 0, 1, 0
259	2809	25	-1.20	GCCCTTCCTGCCCCAGGTCCCTGAG	1, -3, -3, -3, 0, 0, -2, -2, 0, 1, -4, -4, -4, -4, 0, 2, 2, 0, -3, -3, -3, 0, 1, 0, 1
260	2810	25	-1.24	CCCTTCCTGCCCCAGGTCCCTGAGT	-3, -3, -3, 0, 0, -2, -2, 0, 1, -4, -4, -4, -4, 0, 2, 2, 0, -3, -3, -3, 0, 1, 0, 1, 0
261	3010	25	-1.20	CGGCCACTCGCGCCCCATCCCAGCC	-1, 2, 2, -2, -2, 0, -1, 0, -1, 1, -1, 1, -4, -4, -4, -4, 0, 0, -3, -3, -3, 0, 1, -2, -2
262	3012	25	-1.28	GCCACTCGCGCCCCATCCCAGCCTC	2, -2, -2, 0, -1, 0, -1, 1, -1, 1, -4, -4, -4, -4, 0, 0, -3, -3, -3, 0, 1, -2, -2, 0, -1
263	3013	25	-1.36	CCACTCGCGCCCCATCCCAGCCTCT	-2, -2, 0, -1, 0, -1, 1, -1, 1, -4, -4, -4, -4, 0, 0, -3, -3, -3, 0, 1, -2, -2, 0, -1, 0
264	3014	25	-1.32	CACTCGCGCCCCATCCCAGCCTCTC	-2, 0, -1, 0, -1, 1, -1, 1, -4, -4, -4, -4, 0, 0, -3, -3, -3, 0, 1, -2, -2, 0, -1, 0, -1
265	3109	25	-1.28	TCCCTGAACTCCATTCAAGTGCCCCC	0, -3, -3, -3, 0, 1, 0, 0, -1, 0, -2, -2, 0, 0, 0, -1, 0, 1, 0, 1, -4, -4, -4, -4, -4
266	3110	25	-1.28	CCCTGAACTCCATTCAAGTGCCCCCT	-3, -3, -3, 0, 1, 0, 0, -1, 0, -2, -2, 0, 0, 0, -1, 0, 1, 0, 1, -4, -4, -4, -4, -4, 0
267	3111	25	-1.28	CCTGAACTCCATTCAAGTGCCCCCTC	-3, -3, 0, 1, 0, 0, -1, 0, -2, -2, 0, 0, 0, -1, 0, 1, 0, 1, -4, -4, -4, -4, -4, 0, -3
268	3112	25	-1.28	CTGAACTCCATTCAAGTGCCCCCTCC	-3, 0, 1, 0, 0, -1, 0, -2, -2, 0, 0, 0, -1, 0, 1, 0, 1, -4, -4, -4, -4, -4, 0, -3, -3
269	3113	25	-1.28	TGAACTCCATTCAAGTGCCCCCTCCC	0, 1, 0, 0, -1, 0, -2, -2, 0, 0, 0, -1, 0, 1, 0, 1, -4, -4, -4, -4, -4, 0, -3, -3, -3
270	3114	25	-1.28	GAACTCCATTCAAGTGCCCCCTCCCT	1, 0, 0, -1, 0, -2, -2, 0, 0, 0, -1, 0, 1, 0, 1, -4, -4, -4, -4, -4, 0, -3, -3, -3, 0
271	3115	25	-1.28	AACTCCATTCAAGTGCCCCCTCCCTG	0, 0, -1, 0, -2, -2, 0, 0, 0, -1, 0, 1, 0, 1, -4, -4, -4, -4, -4, 0, -3, -3, -3, 0, 1
272	3116	25	-1.32	ACTCCATTCAAGTGCCCCCTCCCTGC	0, -1, 0, -2, -2, 0, 0, 0, -1, 0, 1, 0, 1, -4, -4, -4, -4, -4, 0, -3, -3, -3, 0, 1, -1
273	3117	25	-1.32	CTCCATTCAAGTGCCCCCTCCCTGCT	-1, 0, -2, -2, 0, 0, 0, -1, 0, 1, 0, 1, -4, -4, -4, -4, -4, 0, -3, -3, -3, 0, 1, -1, 0
274	3118	25	-1.28	TCCATTCAAGTGCCCCCTCCCTGCTT	0, -2, -2, 0, 0, 0, -1, 0, 1, 0, 1, -4, -4, -4, -4, -4, 0, -3, -3, -3, 0, 1, -1, 0, 0
275	3119	25	-1.24	CCATTCAAGTGCCCCCTCCCTGCTTG	-2, -2, 0, 0, 0, -1, 0, 1, 0, 1, -4, -4, -4, -4, -4, 0, -3, -3, -3, 0, 1, -1, 0, 0, 1
276	3120	25	-1.28	CATTCAAGTGCCCCCTCCCTGCTTGC	-2, 0, 0, 0, -1, 0, 1, 0, 1, -4, -4, -4, -4, -4, 0, -3, -3, -3, 0, 1, -1, 0, 0, 1, -3
277	3121	25	-1.32	ATTCAAGTGCCCCCTCCCTGCTTGCC	0, 0, 0, -1, 0, 1, 0, 1, -4, -4, -4, -4, -4, 0, -3, -3, -3, 0, 1, -1, 0, 0, 1, -3, -3
278	3122	25	-1.44	TTCAGTGCCCCCTCCCTGCTTGCCC	0, 0, -1, 0, 1, 0, 1, -4, -4, -4, -4, -4, 0, -3, -3, -3, 0, 1, -1, 0, 0, 1, -3, -3, -3
279	3123	25	-1.44	TCAGTGCCCCCTCCCTGCTTGCCCT	0, -1, 0, 1, 0, 1, -4, -4, -4, -4, -4, 0, -3, -3, -3, 0, 1, -1, 0, 0, 1, -3, -3, -3, 0
280	3124	25	-1.48	CAGTGCCCCCTCCCTGCTTGCCCTC	-1, 0, 1, 0, 1, -4, -4, -4, -4, -4, 0, -3, -3, -3, 0, 1, -1, 0, 0, 1, -3, -3, -3, 0, -1
281	3125	25	-1.44	AGTGCCCCCTCCCTGCTTGCCCTCA	0, 1, 0, 1, -4, -4, -4, -4, -4, 0, -3, -3, -3, 0, 1, -1, 0, 0, 1, -3, -3, -3, 0, -1, 0
282	3126	25	-1.40	GTGCCCCCTCCCTGCTTGCCCTCAG	1, 0, 1, -4, -4, -4, -4, -4, 0, -3, -3, -3, 0, 1, -1, 0, 0, 1, -3, -3, -3, 0, -1, 0, 1
283	3127	25	-1.44	TGCCCCCTCCCTGCTTGCCCTCAGT	0, 1, -4, -4, -4, -4, -4, 0, -3, -3, -3, 0, 1, -1, 0, 0, 1, -3, -3, -3, 0, -1, 0, 1, 0
284	3128	25	-1.36	GCCCCCTCCCTGCTTGCCCTCAGTG	1, -4, -4, -4, -4, -4, 0, -3, -3, -3, 0, 1, -1, 0, 0, 1, -3, -3, -3, 0, -1, 0, 1, 0, 2
285	3129	25	-1.32	CCCCCTCCCTGCTTGCCCTCAGTGG	-4, -4, -4, -4, -4, 0, -3, -3, -3, 0, 1, -1, 0, 0, 1, -3, -3, -3, 0, -1, 0, 1, 0, 2, 2
286	3130	25	-1.20	CCCCTCCCTGCTTGCCCTCAGTGGC	-4, -4, -4, -4, 0, -3, -3, -3, 0, 1, -1, 0, 0, 1, -3, -3, -3, 0, -1, 0, 1, 0, 2, 2, -1

287	3429	25	1.32	TGGGCACAGGGGAAGGAGTGATGAG	0, 3, 3, 3, -1, 0, -1, 0, 4, 4, 4, 4, 0, 0, 2, 2, 0, 1, 0, 1, 0, 0, 1, 0, 3
288	3430	25	1.44	GGGCACAGGGGAAGGAGTGATGAGG	3, 3, 3, -1, 0, -1, 0, 4, 4, 4, 4, 0, 0, 2, 2, 0, 1, 0, 1, 0, 0, 1, 0, 3, 3
289	3431	25	1.44	GGCACAGGGGAAGGAGTGATGAGGG	3, 3, -1, 0, -1, 0, 4, 4, 4, 4, 0, 0, 2, 2, 0, 1, 0, 1, 0, 0, 1, 0, 3, 3, 3
290	3432	25	1.28	GCACAGGGGAAGGAGTGATGAGGGC	3, -1, 0, -1, 0, 4, 4, 4, 4, 0, 0, 2, 2, 0, 1, 0, 1, 0, 0, 1, 0, 3, 3, -1
291	3434	25	1.24	ACAGGGGAAGGAGTGATGAGGGCTG	0, -1, 0, 4, 4, 4, 4, 0, 0, 2, 2, 0, 1, 0, 1, 0, 0, 1, 0, 3, 3, 3, -1, 0, 1
292	3435	25	1.20	CAGGGGAAGGAGTGATGAGGGCTGC	-1, 0, 4, 4, 4, 4, 0, 0, 2, 2, 0, 1, 0, 1, 0, 0, 1, 0, 3, 3, 3, -1, 0, 1, -1
293	3436	25	1.24	AGGGGAAGGAGTGATGAGGGCTGCT	0, 4, 4, 4, 4, 0, 0, 2, 2, 0, 1, 0, 1, 0, 0, 1, 0, 3, 3, 3, -1, 0, 1, -1, 0
294	3437	25	1.24	GGGGAAGGAGTGATGAGGGCTGCTT	4, 4, 4, 4, 0, 0, 2, 2, 0, 1, 0, 1, 0, 0, 1, 0, 3, 3, 3, -1, 0, 1, -1, 0, 0
295	4097	25	1.24	GATGTGTGGGTGGTGGTGGTGTAGG	1, 0, 0, 1, 0, 1, 0, 3, 3, 3, 0, 2, 2, 0, 2, 2, 0, 2, 2, 0, 1, 0, 0, 3, 3
296	4098	25	1.32	ATGTGTGGGTGGTGGTGGTGTAGGG	0, 0, 1, 0, 1, 0, 3, 3, 3, 0, 2, 2, 0, 2, 2, 0, 2, 2, 0, 1, 0, 0, 3, 3, 3
297	4099	25	1.32	TGTGTGGGTGGTGGTGGTGTAGGGT	0, 1, 0, 1, 0, 3, 3, 3, 0, 2, 2, 0, 2, 2, 0, 2, 2, 0, 1, 0, 0, 3, 3, 3, 0
298	4100	25	1.28	GTGTGGGTGGTGGTGGTGTAGGGTC	1, 0, 1, 0, 3, 3, 3, 0, 2, 2, 0, 2, 2, 0, 2, 2, 0, 1, 0, 0, 3, 3, 3, 0, -1
299	4101	25	1.24	TGTGGGTGGTGGTGGTGTAGGGTCT	0, 1, 0, 3, 3, 3, 0, 2, 2, 0, 2, 2, 0, 2, 2, 0, 1, 0, 0, 3, 3, 3, 0, -1, 0
300	4102	25	1.28	GTGGGTGGTGGTGGTGTAGGGTCTG	1, 0, 3, 3, 3, 0, 2, 2, 0, 2, 2, 0, 2, 2, 0, 1, 0, 0, 3, 3, 3, 0, -1, 0, 1
301	4103	25	1.24	TGGGTGGTGGTGGTGTAGGGTCTGA	0, 3, 3, 3, 0, 2, 2, 0, 2, 2, 0, 2, 2, 0, 1, 0, 0, 3, 3, 3, 0, -1, 0, 1, 0
302	4104	25	1.24	GGGTGGTGGTGGTGTAGGGTCTGAA	3, 3, 3, 0, 2, 2, 0, 2, 2, 0, 2, 2, 0, 1, 0, 0, 3, 3, 3, 0, -1, 0, 1, 0, 0
303	4253	25	1.36	TTTACTCTTCTGGTGTGGGGTGGGG	0, 0, 0, 0, -1, 0, -1, 0, 0, -1, 0, 2, 2, 0, 1, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4
304	4254	25	1.36	TTACTCTTCTGGTGTGGGGTGGGGA	0, 0, 0, -1, 0, -1, 0, 0, -1, 0, 2, 2, 0, 1, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0
305	4255	25	1.52	TACTCTTCTGGTGTGGGGTGGGGAG	0, 0, -1, 0, -1, 0, 0, -1, 0, 2, 2, 0, 1, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 4
306	4256	25	1.68	ACTCTTCTGGTGTGGGGTGGGGAGG	0, -1, 0, -1, 0, 0, -1, 0, 2, 2, 0, 1, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 4, 4
307	4257	25	1.84	CTCTTCTGGTGTGGGGTGGGGAGGG	-1, 0, -1, 0, 0, -1, 0, 2, 2, 0, 1, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 4, 4, 4
308	4258	25	2.04	TCTTCTGGTGTGGGGTGGGGAGGGG	0, -1, 0, 0, -1, 0, 2, 2, 0, 1, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4
309	4259	25	2.04	CTTCTGGTGTGGGGTGGGGAGGGGA	-1, 0, 0, -1, 0, 2, 2, 0, 1, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0
310	4260	25	2.12	TTCTGGTGTGGGGTGGGGAGGGGAG	0, 0, -1, 0, 2, 2, 0, 1, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 1
311	4261	25	2.12	TCTGGTGTGGGGTGGGGAGGGGAGA	0, -1, 0, 2, 2, 0, 1, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 1, 0
312	4262	25	2.12	CTGGTGTGGGGTGGGGAGGGGAGAT	-1, 0, 2, 2, 0, 1, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 1, 0, 0
313	4263	25	2.20	TGGTGTGGGGTGGGGAGGGGAGATG	0, 2, 2, 0, 1, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 1, 0, 0, 1
314	4264	25	2.20	GGTGTGGGGTGGGGAGGGGAGATGT	2, 2, 0, 1, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 1, 0, 0, 1, 0
315	4265	25	2.12	GTGTGGGGTGGGGAGGGGAGATGTT	2, 0, 1, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 1, 0, 0, 1, 0, 0
316	4266	25	2.08	TGTGGGGTGGGGAGGGGAGATGTTG	0, 1, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 1, 0, 0, 1, 0, 0, 1
317	4267	25	2.08	GTGGGGTGGGGAGGGGAGATGTTGA	1, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 1, 0, 0, 1, 0, 0, 1, 0
318	4268	25	2.04	TGGGGTGGGGAGGGGAGATGTTGAA	0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 1, 0, 0, 1, 0, 0, 1, 0, 0
319	4269	25	2.08	GGGGTGGGGAGGGGAGATGTTGAAG	4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 1, 0, 0, 1, 0, 0, 1, 0, 0, 1
320	4270	25	1.84	GGGTGGGGAGGGGAGATGTTGAAGC	4, 4, 4, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 1, 0, 0, 1, 0, 0, 1, 0, 0, 1, -2
321	4271	25	1.60	GGTGGGGAGGGGAGATGTTGAAGCC	4, 4, 0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 1, 0, 0, 1, 0, 0, 1, 0, 0, 1, -2, -2
322	4272	25	1.44	GTGGGGAGGGGAGATGTTGAAGCCA	4, 0, 4, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 1, 0, 0, 1, 0, 0, 1, 0, 0, 1, -2, 0

323	4273	25	1.20	TGGGGAGGGGAGATGTTGAAGCCAC	0, 4, 4, 4, 4, 0, 4, 4, 4, 4, 0, 1, 0, 0, 1, 0, 0, 1, 0, 0, 1, -2, -2, 0, -2
324	4468	25	-1.28	GCATGTCTCTCCCCCAGGCCCCATC	3, -1, 0, 0, 1, 0, -1, 0, -1, 0, -4, -4, -4, -4, -4, 0, 2, 2, -4, -4, -4, -4, 0, 0, -1, 0
325	4469	25	-1.40	CATGTCTCTCTCCCCCAGGCCCCATCT	-1, 0, 0, 1, 0, -1, 0, -1, 0, -4, -4, -4, -4, -4, 0, 2, 2, -4, -4, -4, -4, 0, 0, -1, 0
326	4470	25	-1.36	ATGTCTCTCTCCCCCAGGCCCCATCTT	0, 0, 1, 0, -1, 0, -1, 0, -4, -4, -4, -4, -4, 0, 2, 2, -4, -4, -4, -4, 0, 0, -1, 0, 0
327	4471	25	-1.40	TGTCTCTCTCCCCCAGGCCCCATCTTC	0, 1, 0, -1, 0, -1, 0, -4, -4, -4, -4, -4, 0, 2, 2, -4, -4, -4, -4, 0, 0, -1, 0, 0, -1
328	4472	25	-1.40	GTCTCTCTCCCCCAGGCCCCATCTTCA	1, 0, -1, 0, -1, 0, -4, -4, -4, -4, -4, 0, 2, 2, -4, -4, -4, -4, 0, 0, -1, 0, 0, -1, 0
329	4473	25	-1.44	TCTCTCTCCCCCAGGCCCCATCTTCAT	0, -1, 0, -1, 0, -4, -4, -4, -4, -4, 0, 2, 2, -4, -4, -4, -4, 0, 0, -1, 0, 0, -1, 0, 0
330	4474	25	-1.44	CTCTCTCCCCCAGGCCCCATCTTCATA	-1, 0, -1, 0, -4, -4, -4, -4, -4, 0, 2, 2, -4, -4, -4, -4, 0, 0, -1, 0, 0, -1, 0, 0, 0
331	4475	25	-1.44	TCTCTCCCCCAGGCCCCATCTTCATAC	0, -1, 0, -4, -4, -4, -4, -4, 0, 2, 2, -4, -4, -4, -4, 0, 0, -1, 0, 0, -1, 0, 0, 0, -1
332	4476	25	-1.44	CTCTCCCCCAGGCCCCATCTTCATACA	-1, 0, -4, -4, -4, -4, -4, 0, 2, 2, -4, -4, -4, -4, 0, 0, -1, 0, 0, -1, 0, 0, 0, -1, 0
333	4477	25	-1.44	TCTCCCCCAGGCCCCATCTTCATACAC	0, -4, -4, -4, -4, -4, 0, 2, 2, -4, -4, -4, -4, 0, 0, -1, 0, 0, -1, 0, 0, 0, -1, 0, -1
334	4478	25	-1.44	CCCCCAGGCCCCATCTTCATACACT	-4, -4, -4, -4, -4, 0, 2, 2, -4, -4, -4, -4, 0, 0, -1, 0, 0, -1, 0, 0, 0, -1, 0, -1, 0
335	4479	25	-1.28	CCCCAGGCCCCATCTTCATACACTT	-4, -4, -4, -4, 0, 2, 2, -4, -4, -4, -4, 0, 0, -1, 0, 0, -1, 0, 0, 0, -1, 0, -1, 0, 0
336	4480	25	-1.20	CCCAGGCCCCATCTTCATACACTTC	-4, -4, -4, 0, 2, 2, -4, -4, -4, -4, 0, 0, -1, 0, 0, -1, 0, 0, 0, -1, 0, -1, 0, 0, -2
337	4507	25	-1.20	CTAAGATGCCACAATTCATCCCCC	-1, 0, 0, 0, 1, 0, 0, 1, -3, -3, -3, 0, -1, 0, 0, 0, 0, -1, 0, 0, -4, -4, -4, -4, -4
338	4510	25	-1.20	AGATGCCACAATTCATCCCCCTTC	0, 1, 0, 0, 1, -3, -3, -3, 0, -1, 0, 0, 0, 0, -1, 0, 0, -4, -4, -4, -4, -4, 0, 0, -1
339	4511	25	-1.20	GATGCCACAATTCATCCCCCTTCA	1, 0, 0, 1, -3, -3, -3, 0, -1, 0, 0, 0, 0, -1, 0, 0, -4, -4, -4, -4, -4, 0, 0, -1, 0
340	4512	25	-1.24	ATGCCACAATTCATCCCCCTTCAT	0, 0, 1, -3, -3, -3, 0, -1, 0, 0, 0, 0, -1, 0, 0, -4, -4, -4, -4, -4, 0, 0, -1, 0, 0
341	4513	25	-1.20	TGCCCACAATTCATCCCCCTTCATG	0, 1, -3, -3, -3, 0, -1, 0, 0, 0, 0, -1, 0, 0, -4, -4, -4, -4, -4, 0, 0, -1, 0, 0, 1
342	4514	25	-1.20	GCCCACAATTCATCCCCCTTCATGT	1, -3, -3, -3, 0, -1, 0, 0, 0, 0, -1, 0, 0, -4, -4, -4, -4, -4, 0, 0, -1, 0, 0, 1, 0
343	4515	25	-1.20	CCCACAATTCATCCCCCTTCATGTG	-3, -3, -3, 0, -1, 0, 0, 0, 0, -1, 0, 0, -4, -4, -4, -4, -4, 0, 0, -1, 0, 0, 1, 0, 1
344	4735	25	-1.20	TTCCCCCACTCTAAAGCCTACTCCT	0, 0, -4, -4, -4, -4, -4, 0, -1, 0, -1, 0, 0, 0, 0, 1, -2, -2, 0, 0, -1, 0, -2, -2, 0
345	4736	25	-1.20	TCCCCCACTCTAAAGCCTACTCCTT	0, -4, -4, -4, -4, -4, 0, -1, 0, -1, 0, 0, 0, 0, 1, -2, -2, 0, 0, -1, 0, -2, -2, 0, 0
346	4737	25	-1.24	CCCCCACTCTAAAGCCTACTCCTTC	-4, -4, -4, -4, -4, 0, -1, 0, -1, 0, 0, 0, 0, 1, -2, -2, 0, 0, -1, 0, -2, -2, 0, 0, -1
347	4885	25	-1.24	AAACGTCCCTTGCCACTCCCCACTC	0, 0, 0, -1, 1, 0, -3, -3, -3, 0, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4, -4, 0, -1, 0, -1
348	4886	25	-1.24	AACGTCCCTTGCCACTCCCCACTCT	0, 0, -1, 1, 0, -3, -3, -3, 0, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4, -4, 0, -1, 0, -1, 0
349	4887	25	-1.28	ACGTCCCTTGCCACTCCCCACTCTC	0, -1, 1, 0, -3, -3, -3, 0, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4, -4, 0, -1, 0, -1, 0, -1
350	4888	25	-1.28	CGTCCCTTGCCACTCCCCACTCTCA	-1, 1, 0, -3, -3, -3, 0, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4, -4, 0, -1, 0, -1, 0, -1, 0
351	4889	25	-1.24	GTCCCTTGCCACTCCCCACTCTCAT	1, 0, -3, -3, -3, 0, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4, -4, 0, -1, 0, -1, 0, -1, 0, 0
352	4890	25	-1.32	TCCCTTGCCACTCCCCACTCTCATC	0, -3, -3, -3, 0, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4, -4, 0, -1, 0, -1, 0, -1, 0, 0, -1
353	4891	25	-1.32	CCCTTGCCACTCCCCACTCTCATCA	-3, -3, -3, 0, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4, -4, 0, -1, 0, -1, 0, -1, 0, 0, -1, 0
354	5020	25	-1.20	GCGCTCTATTCCCCCTCTGCCTCTC	1, -1, 1, -1, 0, -1, 0, 0, 0, 0, -4, -4, -4, -4, -4, 0, -1, 0, 1, -2, -2, 0, -1, 0, -4
355	5021	25	-1.40	CGCTCTATTCCCCCTCTGCCTCTCC	-1, 1, -1, 0, -1, 0, 0, 0, 0, -4, -4, -4, -4, -4, 0, -1, 0, 1, -2, -2, 0, -1, 0, -4, -4
356	5022	25	-1.52	GCTCTATTCCCCCTCTGCCTCTCCC	1, -1, 0, -1, 0, 0, 0, 0, -4, -4, -4, -4, -4, 0, -1, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4
357	5023	25	-1.72	CTCTATTCCCCCTCTGCCTCTCCCC	-1, 0, -1, 0, 0, 0, 0, -4, -4, -4, -4, -4, 0, -1, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4, -4
358	5024	25	-1.68	TCTATTCCCCCTCTGCCTCTCCCCA	0, -1, 0, 0, 0, 0, -4, -4, -4, -4, -4, 0, -1, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4, -4, 0

359	5025	25	-1.76	CTATTCCCCCTCTGCCTCTCCCCAC	-1, 0, 0, 0, 0, -4, -4, -4, -4, -4, 0, -1, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4, -4, 0, -2
360	5026	25	-1.80	TATTCCCCCTCTGCCTCTCCCCACC	0, 0, 0, 0, -4, -4, -4, -4, -4, 0, -1, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4, -4, 0, -2, -2
361	5027	25	-1.80	ATTCCCCCTCTGCCTCTCCCCACCT	0, 0, 0, -4, -4, -4, -4, -4, 0, -1, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4, -4, 0, -2, -2, 0
362	5028	25	-1.80	TTCCCCCTCTGCCTCTCCCCACCTT	0, 0, -4, -4, -4, -4, -4, 0, -1, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4, -4, 0, -2, -2, 0, 0
363	5029	25	-1.84	TCCCCCTCTGCCTCTCCCCACCTTC	0, -4, -4, -4, -4, -4, 0, -1, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4, -4, 0, -2, -2, 0, 0, -1
364	5030	25	-1.84	CCCCCTCTGCCTCTCCCCACCTTCT	-4, -4, -4, -4, -4, 0, -1, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4, -4, 0, -2, -2, 0, 0, -1, 0
365	5031	25	-1.68	CCCCTCTGCCTCTCCCCACCTTCTT	-4, -4, -4, -4, 0, -1, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4, -4, 0, -2, -2, 0, 0, -1, 0, 0
366	5032	25	-1.52	CCCTCTGCCTCTCCCCACCTTCTTT	-4, -4, -4, 0, -1, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4, -4, 0, -2, -2, 0, 0, -1, 0, 0, 0
367	5033	25	-1.28	CCTCTGCCTCTCCCCACCTTCTTTG	-4, -4, 0, -1, 0, 1, -2, -2, 0, -1, 0, -4, -4, -4, -4, 0, -2, -2, 0, 0, -1, 0, 0, 0, 2

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