Supporting Information S1. An analysis of the benchmark dataset

In the following Tabels, the ID is the experiment ID; the site is the DNA methylation site in DNA sequence; the window size of the DNA sequence fragment is equals to 41 with the unlabeled nucleic acid residues located at its center. It contains 2,426 samples, of which 787 are positive and 1639 negative.

I. Positive dataset contains 787 samples

Segment#	ID	Site	Sequence
1	381	21	TTTAATGGAGGCTGGAGAGGCTACAAGGTTCACCAGTAAAG
2	381	34	GGAGAGGCTACAAGGTTCACCAGTAAAGATGCTTGCAAGAT
3	381	49	TTCACCAGTAAAGATGCTTGCAAGATCCTGAGGAATGATGA
4	381	56	GTAAAGATGCTTGCAAGATCCTGAGGAATGATGAAATCATC
5	381	111	GATTGGTTTGATTAACGAATCAGAGCAAGATCTGGATCTAG
6	381	122	TTAACGAATCAGAGCAAGATCTGGATCTAGAACTCCGTTTG
7	381	221	CTAGAAGATATGATGCTTCTCTAAGGTTAATTAGTTTCATC
8	776	7	CTTCCTACCCTCGGCATATACGGCCTGGTCCGGTCCTAGCT
9	776	17	TCGGCATATACGGCCTGGTCCGGTCCTAGCTACCTGGGCCA
10	776	75	TTTGGTCAGTGCAGGAGACCCGGGCGGGACCCAGGCTGAGA
11	776	79	GTCAGTGCAGGAGACCCGGGCGGGACCCAGGCTGAGAACCA
12	776	102	GACCCAGGCTGAGAACCAGCCGAAGGAAGGGACTCTAGTGC
13	776	124	AAGGAAGGGACTCTAGTGCCCGACACCCAAATATGGCTTGG
14	776	164	GGAAGGGCAGCAACATTCTTCGGGGCGGTGTGGGGAGAGCT
15	776	169	GGCAGCAACATTCTTCGGGGCGGTGTGGGGAGAGCTCCCGG
16	776	187	GGCGGTGTGGGGAGAGCTCCCGGGACTATATAAAAACCTGT
17	776	221	AACCTGTGCAAGGGGACAGGCGGTCACACGGACGTAAGCCT
18	776	229	CAAGGGGACAGGCGGTCACACGGACGTAAGCCTCACTTCCT
19	776	233	GGGACAGGCGGTCACACGGACGTAAGCCTCACTTCCTACCC
20	776	255	TAAGCCTCACTTCCTACCCTCGGCATATACGGCCTGGTCCG
21	861	70	AAGCACCTCAAGGCCCCATACGGAGAAAGTTCTAGACGCAG
22	861	126	GGGGTCCTTACAGTAGCCCTCGCGGGCCCCAGCGCCCACCC
23	862	27	AGTCACCAAATCAGCAACAACGTGACCCAGTGGTGCAAGTC
24	862	33	CAAATCAGCAACAACGTGACCCAGTGGTGCAAGTCTTCCGA
25	862	51	ACCCAGTGGTGCAAGTCTTCCGAATCCCACGCTACCATCCC
26	862	60	TGCAAGTCTTCCGAATCCCACGCTACCATCCCAGCACCCCG
27	862	79	ACGCTACCATCCCAGCACCCCGTGGACCAAGAGTGGGTGGG
28	862	143	ACATAGATCTTCCTGCCTCTCGGGGGCATTCTGAAGACCAG
29	862	204	AGGAACTGAGCAAGTCATGACGAAGCAGAACCCTGGGAAGG
30	862	286	ACAGGTTCTACCTGTTCCATCGGGTCCCAATTCCAGGGTCC
31	862	306	CGGGTCCCAATTCCAGGGTCCACCAGCTGCACACACCAGTC
32	862	362	AGGCACCCTCCTGCCTAACTCGCCTGCTTGCTCCATAGGTC
33	863	134	CTGGCAGGGCACAAAAGGTACGGGACTTGTAAGCGCTGGGC
34	863	147	AAAGGTACGGGACTTGTAAGCGCTGGGCAGCCAAGAACATC
35	863	184	CATCCAGTTCAGTTACCCTGCGAGGCTGGGGCCGCCACTCT
36	863	387	AGCGGCCTCTCCCGACGATCCCTGCCCCAGGAAGCCCGAGA
37	875	20	GCGTTCACAGGCCCCACAAACTTCCGTTCGCTGGTCAATTA
38	875	389	GAGGATCCAGCGGCCTTCCGCCCGGGGCCGCTTCGCCTCCG
39	897	25	GACTTGGCCTTGGGGACATGCGGCCTCACGGCCACTGCAGG
40	897	33	CTTGGGGACATGCGGCCTCACGGCCACTGCAGGGACCCAGG
41	897	76	AGTCCTGGGCCCACATGGGCCAGATGGTCAATGGGGCCGAG
42	897	93	GGCCAGATGGTCAATGGGGCCGAGGTGTTCGGGGGCCCAGG
43	897	102	GTCAATGGGGCCGAGGTGTTCGGGGGCCCAGGGGAGTGAGA
44	897	110	GGCCGAGGTGTTCGGGGGCCCAGGGGAGTGAGAACCCCCTC

45	897	160	CTACATCTCCCCTGGGCAGGCGGCTACCACCCTGTGAAGAT
46	897	181	GGCTACCACCCTGTGAAGATCGGCGACGTGTTCAATGGGCG
47	897	184	TACCACCCTGTGAAGATCGGCGACGTGTTCAATGGGCGGTA
48	897	200	TCGGCGACGTGTTCAATGGGCGGTACCACGTGGTGCGCAAA
49	897	208	GTGTTCAATGGGCGGTACCACGTGGTGCGCAAACTGGGCTG
50	897	215	ATGGGCGGTACCACGTGGTGCGCAAACTGGGCTGGGGCCAC
51	897	241	CTGGGCTGGGGCCACTTCTCCACCGTCTGGCTCTGCTGGGA
52	897	244	GGCTGGGGCCACTTCTCCACCGTCTGGCTCTGCTGGGACAT
53	897	282	CATCCAGTGAGTGCCTCCTTCGCCTCCGGGGCGGAGCACTG
54	897	288	GTGAGTGCCTCCTTCGCCTCCGGGGCGGAGCACTGGCTGGG
55	897	347	CTTGGGGCCACCCTGATCCCCGCCGTGGGTCCTGCCAGTGA
56	906	74	CCGGGCCCCACAGGAGCAGCCGCCCGGGGCACCGGAGCTGC
57	906	78	GCCCCACAGGAGCAGCCGCCCGGGGCACCGGAGCTGCGGGC
58	906	86	GGAGCAGCCGCCCGGGGCACCGGAGCTGCGGGCTGCGTGGC
59	906	94	CGCCCGGGGCACCGGAGCTGCGGGCTGCGTGGCCGGGATGA
60	906	101	GGCACCGGAGCTGCGGGCTGCGTGGCCGGGATGAGCGCCAG
61	906	107	GGAGCTGCGGGCTGCGTGGCCGGGATGAGCGCCAGCACGGG
62	906	124	GGCCGGGATGAGCGCCAGCACGGGCGGTGGTGGGGACAGCG
63	906	128	GGGATGAGCGCCAGCACGGGCGGTGGTGGGGACAGCGGCGG
64	906	143	ACGGGCGGTGGTGGGGACAGCGGCGGCAGCGGCGGCAGTAG
65	906	146	GGCGGTGGTGGGGACAGCGGCGGCAGCGGCGGCAGTAGCAG
66	906	152	GGTGGGGACAGCGGCGGCAGCGGCGGCAGTAGCAGCAGGTA
67	906	155	GGGGACAGCGGCGGCAGCGGCGGCAGTAGCAGCAGGTAGGG
68	906	178	CAGTAGCAGCAGGTAGGGCTCGGCTGGGGCACCCGGAGCCC
69	906	191	TAGGGCTCGGCTGGGGCACCCGGAGCCCCTGGCGTCTCTCA
70	906	203	GGGGCACCCGGAGCCCCTGGCGTCTCTCATGCCCACTGCCA
71	906	235	CCACTGCCACTCACCCCACCCGCAGCTCACAGGCCTCCTGC
72	906	318	GTGCCTCAGAAGCTGCAGGGCCTTCTGGGCTCCGACGTCGA
73	906	330	CTGCAGGGCCTTCTGGGCTCCGACGTCGAGGAACAGGAAGA
74	957	27	AGGAGCCCTGGCTGCCCCCACGGGTCGGGCACACAAACGGG
75	957	32	CCCTGGCTGCCCCCACGGGTCGGGCACACAAACGGGACATT
76	957	67	GACATTGTGTGGGCCCCCCACGTGTGCACACACACGAACAC
77	957	140	CCTGCCCTCCCCTCCCCTCGCGGCCCTCCCGCCCCTCCCCT
78	957	149	CCCTCCCCTCGCGGCCCTCCCGCCCCTCCCCTCTGGCCCGG
79	957	167	CCCGCCCCTCCCCTCTGGCCCGGGCCTGGAACGCTGGGTGC
80	957	211	AGCCAGGCTTGGGAAGCCTGCGGCCTGGCCCGCCTGGCGCC
81	957	221	GGGAAGCCTGCGGCCTGGCCCGCCTGGCGCCGCCACTGGAC
82	957	228	CTGCGGCCTGGCCCGCCTGGCGCCGCCACTGGACACACTGC
83	957	231	CGGCCTGGCCCGCCTGGCGCCGCCACTGGACACACTGCATG
84	957	248	CGCCGCCACTGGACACACTGCATGCACGTCCCATGCCCGCC
85	957	254	CACTGGACACACTGCATGCACGTCCCATGCCCGCCCGCCCG
86	957	265	CTGCATGCACGTCCCATGCCCGCCCGCCCGCCCGCCCGCCC
87	957	269	ATGCACGTCCCATGCCCGCCCGCCCGCCCGCCCGGGC
88	957	273	ACGTCCCATGCCCGCCCGCCCGCCCGCCCGCCCGGGCCCAG
89	957	277	CCCATGCCCGCCCGCCCGCCCGCCCGCCCGGGCCCAGCTTA
90	957	281	TGCCCGCCCGCCCGCCCGCCCGCCCGGGCCCAGCTTAGCAA
91	957	285	CGCCCGCCCGCCCGCCCGCCCGGGCCCAGCTTAGCAACAGC
92	957	305	CGGGCCCAGCTTAGCAACAGCGATGGGCACGCGTGTGTCCT
93	957	314	CTTAGCAACAGCGATGGGCACGCGTGTGTCCTGTGACTACA
94	957	316	TAGCAACAGCGATGGGCACGCGTGTGTCCTGTGACTACAAA
95	957	360	GCACTGGGGTTGCTGGAAGCCGAAGTGACCCGGTGATGGGT
96	957	370	TGCTGGAAGCCGAAGTGACCCGGTGATGGGTGGGAAACAGA
97	1000	107	CTCGGGGCCCTCCCCGGTGCCGCCGGTGCCCCCCGCCTGAC

98	1000	219	GCCGAGAACGGCATCTATAG**C**GTGTCCGGCGACGAGAAGAA
99	1017	30	TGGTGGACTGCTTCTGACTG**C**GCCGCCTGTGACCCGCACCC
100	1017	33	TGGACTGCTTCTGACTGCGC**C**GCCTGTGACCCGCACCCCGC
101	1017	44	TGACTGCGCCGCCTGTGACC**C**GCACCCCGCCGCTCTCCCGC
102	1017	51	GCCGCCTGTGACCCGCACCC**C**GCCGCTCTCCCGCCGCCCCG
103	1017	54	GCCTGTGACCCGCACCCCGC**C**GCTCTCCCGCCGCCCCGTCC
104	1017	62	CCCGCACCCCGCCGCTCTCC**C**GCCGCCCCGTCCCCCGGCCC
105	1017	65	GCACCCCGCCGCTCTCCCGC**C**GCCCCGTCCCCCGGCCCGGC
106	1017	70	CCGCCGCTCTCCCGCCGCCC**C**GTCCCCCGGCCCGGCCGCCC
107	1017	77	TCTCCCGCCGCCCCGTCCCC**C**GGCCCGGCCGCCCCCCGGCC
108	1017	82	CGCCGCCCCGTCCCCCGGCC**C**GGCCGCCCCCCGGCCCCCGG
109	1017	86	GCCCCGTCCCCCGGCCCGGC**C**GCCCCCCGGCCCCCGGCCGG
110	1017	93	CCCCCGGCCCGGCCGCCCCCC**C**GGCCCCCGGCCGGTCCGCGC
111	1017	100	CCCGGCCGCCCCCCGGCCCC**C**GGCCGGTCCGCGCCCTCGGG
112	1017	104	GCCGCCCCCCGGCCCCCGGC**C**GGTCCGCGCCCTCGGGGCCC
113	1017	109	CCCCCGGCCCCCGGCCGGTC**C**GCGCCCTCGGGGCCCTCCCC
114	1017	117	CCCCGGCCGGTCCGCGCCCT**C**GGGGCCCTCCCCGGTGCCGC
115	1017	129	CGCGCCCTCGGGGCCCTCCC**C**GGTGCCGCCGGTGCCCCGCG
116	1017	135	CTCGGGGCCCTCCCCGGTGC**C**GCCGGTGCCCCGTGCCTGAC
117	1017	138	GGGGCCCTCCCCGGTGCCGC**C**GGTGCCCCGCGCCTGACCGC
118	1017	156	GCCGGTGCCCCGAGCCTGAC**C**GCAGCCCCCCGCAGGGTGCC
119	1017	166	CGTGCCTGACCGCAGCCCCCC**C**GCAGGGTGCCGCGACCCCAG
120	1017	176	CGCAGCCCCCCGCAGGGTGC**C**GCGACCCCAGCCCGGCCGTG
121	1017	178	CAGCCCCCCGCAGGGTGCCG**C**GACCCCAGCCCGGCCGTGAG
122	1017	189	AGGGTGCCGCGACCCCAGCC**C**GGCCGTGAGGCCCGCAGGGG
123	1017	193	TGCCGCGACCCCAGCCCGGC**C**GTGAGGCCCGCAGGGGCCAT
124	1017	202	CCCAGCCCGGCCGTGAGGCC**C**GCAGGGGCCATGGCGAAGAA
125	1017	216	GAGGCCCGCAGGGGCCATGG**C**GAAGAAGAGCGCCGAGAACG
126	1017	229	GCCATGGCGAAGAAGAGCGC**C**GAGAACGGCATCTGTAGCGT
127	1017	235	GCGAAGAAGAGCGCCGAGAT**C**GGCATTTGTAGCGTGTCCGG
128	1017	247	GCCGAGAACGGCATGTGTAG**C**GTGTCCGGCGACCAGAAGAA
129	1017	253	ATCGGCATTTGTAGCGTGTC**C**GGCGACCAGAAGAAGGGTCC
130	1017	280	CAGAAGAAGGGTCCCCTCAT**C**GCGCCCGGGCCCGACGGGGC
131	1017	282	GAAGAAGGGTCCCCTCATCG**C**GCCCGGGCCCGACGGGGCCC
132	1017	286	AAGGGTCCCCTCATCGCGCC**C**GGGCCCGACGGGGCCCGGGC
133	1017	292	CCCCTCATCGCGCCCGGGCC**C**GACGGGGCCCGGGCCAAGGG
134	1017	295	CTCATCGCGCCCGGGCCCGA**C**GGGGCCCGGGCCAAGGGCGA
135	1017	302	CGCCCGGGCCCGACGGGGCC**C**GGGCCAAGGGCGACGGCCCC
136	1017	313	GACGGGGCCCGGGCCAAGGG**C**GACGGCCCCGCGGGCCTGGG
137	1017	316	GGGGCCCGGGCCAAGGGCGA**C**GGCCCCGCGGGCCTGGGGAC
138	1017	322	CGGGCCAAGGGCGACGGCCC**C**GCGGGCCTGGGGACACCCGG
139	1017	324	GGCCAAGGGCGACGGCCCCG**C**GGGCCTGGGGACACCCGGCG
140	1017	340	CCCGCGGGCCTGGGGACACC**C**GGCGGCGGCCTGGCCGTGCC
141	1017	343	GCGGGCCTGGGGACACCCGG**C**GGCGGCCTGGCCGTGCCGCC
142	1017	355	ACACCCGGCGGCGGCCTGGC**C**GTGCCGCCGCGCGCGATAGA
143	1017	360	CGGCGGCGGCCTGGCCGTGC**C**GCCGCGCGCGATAGACCTGT
144	1017	363	CGGCGGCCTGGCCGTGCCGC**C**GCGCGCGATAGACCTGTCAA
145	1017	365	GCGGCCTGGCCGTGCCGCCG**C**GCGCGATAGACCTGTCAAGT
146	1017	367	GGCCTGGCCGTGCCGCCGCG**C**GCGATAGACCTGTCAAGTGC
147	1017	369	CCTGGCCGTGCCGCCGCGCG**C**GATAGACCTGTCAAGTGCTT
148	1019	34	ATCATGTCGTGTGTGGGCTT**C**GCCGTGGGCCTGGGCAACGT
149	1019	37	ATGTCGTGTGTGGGCTTCGC**C**GTGGGCCTGGGCAACGTGTG
150	1019	52	TTCGCCGTGGGCCTGGGCAA**C**GTGTGGCGCTTCCCCTACCT

151	1019	59	TGGGCCTGGGCAACGTGTGGCGCTTCCCCTACCTGTGCTAC
152	1019	88	TACCTGTGCTACAAGAATGGCGGAGGTGAGCTCCCCCGCCC
153	1019	104	ATGGCGGAGGTGAGCTCCCCCGCCCCCCGCGGCCCCCTCCC
154	1019	147	AGCAGGCCGCCGGCCCCTGACGCCCGACCCCCAACCCCCGG
155	1019	151	GGCCGCCGGCCCCTGACGCCCGACCCCCAACCCCCGGAGCC
156	1019	164	TGACGCCCGACCCCCAACCCCCGGAGCCGCCGCGGAGGGGT
157	1019	165	GACGCCCGACCCCCAACCCCCGGAGCCGCCGCGGAGGGGTG
158	1019	171	CGACCCCCAACCCCCGGAGCCGCCGCGGAGGGGTGAAGTCC
159	1019	174	CCCCCAACCCCCGGAGCCGCCGCGGAGGGGTGAAGTCCGGG
160	1019	176	CCCAACCCCCGGAGCCGCCGCGGAGGGGTGAAGTCCGGGCA
161	1019	191	CGCCGCGGAGGGGTGAAGTCCGGGCAGCGGTTGGCCCCTGG
162	1019	198	GAGGGGTGAAGTCCGGGCAGCGGTTGGCCCCTGGGCACGCG
163	1019	215	CAGCGGTTGGCCCCTGGGCACGCGGGGTCGGGGCCGCCCCT
164	1019	223	GGCCCCTGGGCACGCGGGGTCGGGGCCGCCCCTGGTCCACC
165	1019	229	TGGGCACGCGGGGTCGGGGCCGCCCCTGGTCCACCGCTGCT
166	1019	243	CGGGGCCGCCCCTGGTCCACCGCTGCTGCTCGGTGGCTGGG
167	1019	253	CCTGGTCCACCGCTGCTGCTCGGTGGCTGGGCCGTCCGCCT
168	1019	265	CTGCTGCTCGGTGGCTGGGCCGTCCGCCTCCACCCCTCTCG
169	1019	269	TGCTCGGTGGCTGGGCCGTCCGCCTCCACCCCTCTCGCAGT
170	1019	284	CCGTCCGCCTCCACCCCTCTCGCAGTCATGTGCCTGGCAGG
171	1019	313	GTGCCTGGCAGGGTGAGGGGCGGGGGCCGGCGATGCCCGCG
172	1019	320	GCAGGGTGAGGGGCGGGGGCCGGCGATGCCCGCGAGGCTGC
173	1019	330	GGGCGGGGGCCGGCGATGCCCGCGAGGCTGCCCCCCAGACT
174	1019	332	GCGGGGGCCGGCGATGCCCGCGAGGCTGCCCCCCAGACTCC
175	1019	357	CTGCCCCCCAGACTCCTGGGCTGGAAGGAGCGATTGGCCGC
176	1019	367	GACTCCTGGGCTGGAAGGAGCGATTGGCCGCCGAGGTGGGA
177	1019	375	GGCTGGAAGGAGCGATTGGCCGCCGAGGTGGGAAAGCAGGC
178	1019	378	TGGAAGGAGCGATTGGCCGCCGAGGTGGGAAAGCAGGCCTG
179	1019	399	GAGGTGGGAAAGCAGGCCTGCGCCTTGGGGTCTCCTCGAGG
180	1019	415	CCTGCGCCTTGGGGTCTCCTCGAGGTAAAAAGCCCTGGCTG
181	1019	442	AAAAGCCCTGGCTGCCCCTGCGGGTCGGGCACACAAGGGGC
182	1027	35	AGGAGCCCTGGCTGCCCCTGCGGGTCGGGCACACAAGCGGC
183	1027	40	CCCTGGCTGCCCCTGCGGGTCGGGCACACAAGCGGCACATT
184	1027	52	CTGCGGGTCGGGCACACAAGCGGCACATTGTGTGGGCCCCC
185	1027	72	CGGCACATTGTGTGGGCCCCCCACGTGTGCACACACACGAA
186	1027	75	CACATTGTGTGGGCCCCCCACGTGTGCACACACACGAACAC
187	1027	101	CACACACACGAACACACACACATATAATGGGCCACTCTGTC
188	1027	146	TCCCTGCCCTCCCCTCCCCTCGCAGCCCTCCCGCTCCTCCC
189	1027	157	CCCTCCCCTCGCAGCCCTCCCGCTCCTCCCCTCTGGCCCGG
190	1027	222	CAGGCTTGGGAAGCCTGTGGCCTGGCCCGCCTGGCGCCGCC
191	1027	229	GGGAAGCCTGTGGCCTGGCCCGCCTGGCGCCGCCACTGGAA
192	1027	236	CTGTGGCCTGGCCCGCCTGGCGCCGCCACTGGAAACACTGC
193	1027	239	TGGCCTGGCCCGCCTGGCGCCGCCACTGGAAACACTGCATG
194	1027	262	CACTGGAAACACTGCATGCACGTCCCATGCCCGCCCGCCTG
195	1027	273	CTGCATGCACGTCCCATGCCCGCCCGCCTGCCCGGGCCCCG
196	1027	277	ATGCACGTCCCATGCCCGCCCGCCTGCCCGGGCCCCGCTTA
197	1027	285	CCCATGCCCGCCCGCCTGCCCGGGCCCCGCTTAGCAAGAGC
198	1027	305	CGGGCCCCGCTTAGCAAGAGCGATGGGCACGCGTGTGTCCT
199	1027	314	CTTAGCAAGAGCGATGGGCACGCGTGTGTCCTGTGACTACA
200	1027	316	TAGCAAGAGCGATGGGCACGCGTGTGTCCTGTGACTACAAA
201	1027	360	GCACTGGGGTTTCTGGAAGCCGAAGTGACCCAGTGATGGGT
202	1066	1	CACTTCGCTGCGGTCCTCTTCGACCAGCCCGGCCAACATGG
203	1066	10	GCGGTCCTCTTCGACCAGCCCGGCCAACATGGTGAAACCCC

204	1066	30	CGGCCAACATGGTGAAACCC**C**GTCTCTACTAAAAATACAAA
205	1066	69	AAAATCAGCCAGATGTGGCA**C**GCACCTATAATTCCACCTAC
206	1066	91	CACCTATAATTCCACCTACT**C**GGGAGGCTGAAGCAGAATTG
207	1066	120	GAAGCAGAATTGCTTGAACC**C**GAGAGGCGGAGGTTGCAGTG
208	1066	127	AATTGCTTGAACCCGAGAGG**C**GGAGGTTGCAGTGAGCCGCC
209	1066	144	AGGCGGAGGTTGCAGTGAGC**C**GCCGAGATCGCGCCACTGCA
210	1066	153	TTGCAGTGAGCCGCCGAGAT**C**GCGCCACTGCACTCCAGCCT
211	1066	155	GCAGTGAGCCGCCGAGATCG**C**GCCACTGCACTCCAGCCTGG
212	1066	193	TGGGCCACAGCGTGAGACTA**C**GTCATAAAATAAAATAAAAT
213	1116	215	CCCCAATGATTCAGCTGATG**C**GCGTTTCTCTACTTGCCCTT
214	1116	290	CCTGGAAATTCAACCTGTTT**C**GCAGTTTCTCGAGGAATCAG
215	1116	375	GATTGGCTGGGCAGGAACAG**C**GCCGGGGCGTGGGCTGAGCA
216	1116	378	TGGCTGGGCAGGAACAGCGC**C**GGGGCGTGGGCTGAGCACAG
217	1116	383	GGGCAGGAACAGCGCCGGGG**C**GTGGGCTGAGCACAGCCGCT
218	1116	400	GGGCGTGGGCTGAGCACAGC**C**GCTTCGCTCTCTTTGCCACA
219	1116	405	TGGGCTGAGCACAGCCGCTT**C**GCTCTCTTTGCCACAGGAAG
220	1116	438	ACAGGAAGCCTGAGCTCATT**C**GAGTAGCGGCTCTTCCAAGC
221	1116	482	AAGAAGCAGAGGCCGCTGTT**C**GTTTCCTTTAGGTCTTTCCA
222	1116	754	TCCTGGAGCAGCGCCCAAAC**C**GTAGTGGCACTGGACCATGT
223	1116	797	CCCGGAGCGCGCACAGCCCG**C**GCGGTGCGGGGACCTGCTCT
224	1116	799	CGGAGCGCGCACAGCCCGCG**C**GGTGCGGGGACCTGCTCTCT
225	1116	804	CGCGCACAGCCCGCGCGGTG**C**GGGGACCTGCTCTCTGAGCC
226	1116	831	CTGCTCTCTGAGCCCGCGGG**C**GGTGGGTGGGAGGAAGCATC
227	1116	870	TCGTCCGCGGCGACTGGAAC**C**GGGAGGGAGAATCGCACTGG
228	1116	891	GGGAGGGAGAATCGCACTGG**C**GGCGGGCAAAGTCCAGAACG
229	1128	7	TGTTGGAGATCTGGTGGGTG**C**GGACGGGCGCGGCCAGGAGG
230	1128	11	GGAGATCTGGTGGGTGCGGA**C**GGGCGCGGCCAGGAGGGGGT
231	1128	15	ATCTGGTGGGTGCGGACGGG**C**GCGGCCAGGAGGGGGTTAAG
232	1128	17	CTGGTGGGTGCGGACGGGCG**C**GGCCAGGAGGGGGTTAAGGC
233	1128	37	CGGCCAGGAGGGGGTTAAGG**C**GCAGGCGGCGGCGGGGCGGG
234	1128	43	GGAGGGGGTTAAGGCGCAGG**C**GGCGGCGGGGCGGGGGCGGG
235	1128	46	GGGGGTTAAGGCGCAGGCGG**C**GGCGGGGCGGGGGCGGGCCT
236	1128	49	GGTTAAGGCGCAGGCGGCGG**C**GGGGCGGGGGCGGGCCTGGC
237	1128	54	AGGCGCAGGCGGCGGCGGGG**C**GGGGGCGGGCCTGGCGGGCG
238	1128	60	AGGCGGCGGCGGGGCGGGGG**C**GGGCCTGGCGGGCGCCCTCT
239	1128	69	CGGGGCGGGGGCGGGCCTGG**C**GGGCGCCCTCTCCGGGCCCT
240	1128	73	GCGGGGGCGGGCCTGGCGGG**C**GCCCTCTCCGGGCCCTTTGT
241	1128	82	GGCCTGGCGGGCGCCCTCTC**C**GGGCCCTTTGTTAACAGGCG
242	1128	101	CCGGGCCCTTTGTTAACAGG**C**GCGTCCCGGCCAGGCGGAGA
243	1128	103	GGGCCCTTTGTTAACAGGCG**C**GTCCCGGCCAGGCGGAGACG
244	1128	108	CTTTGTTAACAGGCGCGTCC**C**GGCCAGGCGGAGACGCGGCC
245	1128	116	ACAGGCGCGTCCCGGCCAGG**C**GGAGACGCGGCCGCGGCCAT
246	1128	122	GCGTCCCGGCCAGGCGGAGA**C**GCGGCCGCGGCCATGGGCGG
247	1128	124	GTCCCGGCCAGGCGGAGACG**C**GGCCGCGGCCATGGGCGGGC
248	1128	128	CGGCCAGGCGGAGACGCGGC**C**GCGGCCATGGGCGGGCGCGG
249	1128	130	GCCAGGCGGAGACGCGGCCG**C**GGCCATGGGCGGGCGCGGGC
250	1128	140	GACGCGGCCGCGGCCATGGG**C**GGGCGCGGGCGCGCGGGGCG
251	1128	144	CGGCCGCGGCCATGGGCGGG**C**GCGGGCGCGCGGGGCGGCGG
252	1128	146	GCCGCGGCCATGGGCGGGCG**C**GGGCGCGCGGGGCGGCGGTG
253	1128	150	CGGCCATGGGCGGGCGCGGG**C**GCGCGGGGCGGCGGTGAGGG
254	1128	152	GCCATGGGCGGGCGCGGGCG**C**GCGGGGCGGCGGTGAGGGCG
255	1128	154	CATGGGCGGGCGCGGGCGCG**C**GGGGCGGCGGTGAGGGCGGC
256	1128	159	GCGGGCGCGGGCGCGCGGGG**C**GGCGGTGAGGGCGGCTGGCG

257	1128	162	GGCGCGGGCGCGCGGGGCGGCGGTGAGGGCGGCTGGCGGGG
258	1128	171	GCGCGGGGCGGCGGTGAGGGCGGCTGGCGGGGCCGGGGGCG
259	1128	178	GCGGCGGTGAGGGCGGCTGGCGGGGCCGGGGGCGCCGGGGG
260	1128	184	GTGAGGGCGGCTGGCGGGGCCGGGGGCGCCGGGGGGGCGCG
261	1128	190	GCGGCTGGCGGGGCCGGGGGCGCCGGGGGGGCGCGCGGGCC
262	1128	193	GCTGGCGGGGCCGGGGGCGCCGGGGGGGCGCGCGGGCCGAG
263	1128	201	GGCCGGGGGCGCCGGGGGGGCGCGCGGGCCGAGCCGGGCCT
264	1128	203	CCGGGGGCGCCGGGGGGGCGCGCGGGCCGAGCCGGGCCTGA
265	1128	205	GGGGGCGCCGGGGGGGCGCGCGGGCCGAGCCGGGCCTGAGC
266	1128	210	CGCCGGGGGGGCGCGCGGGCCGAGCCGGGCCTGAGCCGGGC
267	1128	215	GGGGGGCGCGCGGGCCGAGCCGGGCCTGAGCCGGGCCCGCG
268	1128	226	GGGCCGAGCCGGGCCTGAGCCGGGCCCGCGGACCGAGCTGG
269	1128	232	AGCCGGGCCTGAGCCGGGCCCGCGGACCGAGCTGGGAGAGG
270	1128	234	CCGGGCCTGAGCCGGGCCCGCGGACCGAGCTGGGAGAGGGG
271	1128	239	CCTGAGCCGGGCCCGCGGACCGAGCTGGGAGAGGGGTTCCG
272	1128	258	CCGAGCTGGGAGAGGGGTTCCGGCCCCCGACGTCGCTGGCG
273	1128	265	GGGAGAGGGGTTCCGGCCCCCGACGTCGCTGGCGCGGGAAA
274	1128	268	AGAGGGGTTCCGGCCCCCGACGTCGCTGGCGCGGGAAAATG
275	1128	271	GGGGTTCCGGCCCCCGACGTCGCTGGCGCGGGAAAATGTTG
276	1128	277	CCGGCCCCCGACGTCGCTGGCGCGGGAAAATGTTGGAGATC
277	1128	279	GGCCCCCGACGTCGCTGGCGCGGGAAAATGTTGGAGATCTG
278	1261	179	CGCCTGGCCCACCCCTGGACCGCCCCCGCCCCGCCCCGCCC
279	1261	262	CCCGCGACCGAAGCAGGGCGCGCAGCAGCGCTGAGTGCCCC
280	1329	2	TATCACCATCTATGATCCCACGTCTGCTGAATCAGTTGTGG
281	1329	31	AATCAGTTGTGGGGTTTATACGCGGGAGTTGTCGCGTGGTG
282	1329	33	TCAGTTGTGGGGTTTATACGCGGGAGTTGTCGCGTGGTGGC
283	1329	43	GGTTTATACGCGGGAGTTGTCGCGTGGTGGCAGCAAAATCG
284	1329	45	TTTATACGCGGGAGTTGTCGCGTGGTGGCAGCAAAATCGAT
285	1329	62	TCGCGTGGTGGCAGCAAAATCGATTGCGCCAAACCTAAAGA
286	1329	68	GGTGGCAGCAAAATCGATTGCGCCAAACCTAAAGAGCCCCC
287	1329	208	CATTTTCTAGGCTGGTACCTCGTGGACTCGGACTCCCAAAT
288	1329	216	AGGCTGGTACCTCGTGGACTCGGACTCCCAAATCAACAAGA
289	1329	238	GACTCCCAAATCAACAAGATCGGCTTACTCTCTGCAAAGAA
290	1329	286	TGTGTAAAGACCAGGGTTGTCGCACGGCGCTCGTACATCGC
291	1329	290	TAAAGACCAGGGTTGTCGCACGGCGCTCGTACATCGCAGTC
292	1329	293	AGACCAGGGTTGTCGCACGGCGCTCGTACATCGCAGTCCTG
293	1329	297	CAGGGTTGTCGCACGGCGCTCGTACATCGCAGTCCTGAAAC
294	1329	304	GTCGCACGGCGCTCGTACATCGCAGTCCTGAAACGGATTGT
295	1329	317	CGTACATCGCAGTCCTGAAACGGATTGCGCAGTGAAGTAAC
296	1345	22	CCTCCTGCCATCTGGAGCTCCGGTCACTTCCATCTAGAGCT
297	1345	132	AAGCTAAGAGCAATGGTATACGCACGCACGTGGCTGGAGGG
298	1345	136	TAAGAGCAATGGTATACGCACGCACGTGGCTGGAGGGACAG
299	1345	140	AGCAATGGTATACGCACGCACGTGGCTGGAGGGACAGGGCA
300	1345	230	GGAGACCATACTGTGCCCTCCGGTTGACTGGGGTGACCAAG
301	1345	282	AGATAACTAATAAAACTCATCGCAAGAGAGTCCTGACAAAC
302	1345	302	CGCAAGAGAGTCCTGACAAACGTGACGACTCACCCAGAAAA
303	1345	307	GAGAGTCCTGACAAACGTGACGACTCACCCAGAAAAGGGAC
304	1345	327	CGACTCACCCAGAAAAGGGACGTCCTCCTGCCATCTGGAGC
305	1376	1	GCTGCCCCCAGACCCCTGCTCGGTTCCCGCCAGGAAACATC
306	1376	8	CCAGACCCCTGCTCGGTTCCCGCCAGGAAACATCCGGGTGC
307	1376	22	GGTTCCCGCCAGGAAACATCCGGGTGCCCGGATGTGACGCC
308	1376	30	CCAGGAAACATCCGGGTGCCCGGATGTGACGCCACTGACTT
309	1376	39	ATCCGGGTGCCCGGATGTGACGCCACTGACTTGCGCATTGT

310	1376	52	GATGTGACGCCACTGACTTGCGCATTGTGGGGCAGAGAGAA
311	1376	74	CATTGTGGGGCAGAGAGAAGCGAGGTTTCCATTCTGAGGGA
312	1376	95	GAGGTTTCCATTCTGAGGGACGGCGTAGAGTTCGGCCGAAG
313	1376	98	GTTTCCATTCTGAGGGACGGCGTAGAGTTCGGCCGAAGGAA
314	1376	107	CTGAGGGACGGCGTAGAGTTCGGCCGAAGGAACCTGACCCA
315	1376	111	GGGACGGCGTAGAGTTCGGCCGAAGGAACCTGACCCAGGCT
316	1376	176	TGAGGGAGGACTGAGGACCCCGCCACTCCAAATAGAGAGCC
317	1376	213	AGCCCCAAATATTCCAGCGCCGCCCTTGCTGCCAGCCCTGG
318	1376	240	GCTGCCAGCCCTGGCCCACCCGCGGGAAGACGTCTCAGCCT
319	1376	250	CTGGCCCACCCGCGGGAAGACGTCTCAGCCTGGGCTGCCCC
320	1437	17	GTGTGGGGACCTAGACAGGGCGAGGCATCTCCATATTATCT
321	1437	79	CACCCCACCCATTTTCCACCCGGAGCATGAAGCACGTGGGG
322	1437	93	TCCACCCGGAGCATGAAGCACGTGGGGAATGTTCCCCTTTC
323	1437	140	CAGTCTGCATCAATCACCCCCGTGTCCCATTCCAAGAACAT
324	1437	244	CCTGGCTTTTCTGGCCTCTCCGAGTTTGTGCCTATAGATTT
325	1437	289	AAGCTTCCAGCTAGGAAGACCGGTATGGTGATGTTCCTCAT
326	1437	450	AAAAAAAAAATGGCAAGGGCCGGCAGAGGGGTTCTCTACCT
327	1440	24	ACCAGCAACACTCCTTTCAACGCAAATTCCAGCCTGCTGGA
328	1440	45	GCAAATTCCAGCCTGCTGGACGTTATGCATAATCCACGTAC
329	1440	61	TGGACGTTATGCATAATCCACGTACGTCCCACCCCGCCATG
330	1440	65	CGTTATGCATAATCCACGTACGTCCCACCCCGCCATGATGG
331	1440	75	AATCCACGTACGTCCCACCCCGCCATGATGGCGCCATGCGG
332	1440	86	GTCCCACCCCGCCATGATGGCGCCATGCGGAATTTTTTTGG
333	1440	93	CCCGCCATGATGGCGCCATGCGGAATTTTTTTGGAAAAACG
334	1440	128	AAAACGGGGCCCTACATGTACGGGCTCTTTACACTTCGAAC
335	1440	144	TGTACGGGCTCTTTACACTTCGAACAGTCGGCTGCAGGACT
336	1440	180	GGACTACTTAATGCAAGCTGCGGGGCAGAGAAATTATAACA
337	1440	203	GGCAGAGAAATTATAACAAGCGACCACTACATCTACTGTAT
338	1440	272	TTTGTGGGCACCTGCAAGGGCGCCTCGTGATCTCCGGACTT
339	1440	277	GGGCACCTGCAAGGGCGCCTCGTGATCTCCGGACTTTATCT
340	1440	304	TCCGGACTTTATCTAGATCTCGACGGTATCGATAAGCTTGA
341	1440	313	TATCTAGATCTCGACGGTATCGATAAGCTTGATATCGAATT
342	1440	390	CAATCAGCACCGGCTCAGGACGAAACCATCAAGATGGGTGC
343	1440	414	ACCATCAAGATGGGTGCCCTCGCGGTGTTCGCCGTCGCTTG
344	1440	416	CATCAAGATGGGTGCCCTCGCGGTGTTCGCCGTCGCTTGCC
345	1440	423	ATGGGTGCCCTCGCGGTGTTCGCCGTCGCTTGCCTCGCGGC
346	1440	426	GGTGCCCTCGCGGTGTTCGCCGTCGCTTGCCTCGCGGCAGT
347	1440	438	GTGTTCGCCGTCGCTTGCCTCGCGGCAGTGGCGTCGGTTGC
348	1440	440	GTTCGCCGTCGCTTGCCTCGCGGCAGTGGCGTCGGTTGCGC
349	1440	449	CGCTTGCCTCGCGGCAGTGGCGTCGGTTGCGCATGCGGCTG
350	1440	452	TTGCCTCGCGGCAGTGGCGTCGGTTGCGCATGCGGCCGACA
351	1440	458	CGCGGCAGTGGCGTCGGTTGCGCATGCGGCAGACAATTACC
352	1440	464	AGTGGCGTCGGTTGCGCATGCGGCCGACAATTACCAGCAAC
353	1443	2	TGTCGCTTGCACCCCAACCCCGCGTGTGTGGGGTGCGGGCA
354	1443	4	TCGCTTGCACCCCAACCCCGCGTGTGTGGGGTGCGGGCACG
355	1443	17	AACCCCGCGTGTGTGGGGTGCGGGCACGCGGCCCAGGCCTG
356	1443	23	GCGTGTGTGGGGTGCGGGCACGCGGCCCAGGCCTGCTGTTG
357	1443	60	GTTGACCTTCTCACATGCAACGCTCACCCCCGCCCCGTACT
358	1443	70	TCACATGCAACGCTCACCCCCGCCCCGTACTAATTTCCATG
359	1443	75	TGCAACGCTCACCCCCGCCCCGTACTAATTTCCATGCCTAA
360	1443	162	CAGATCCGCGGCGCCAACCCCGCAGCCGGCGTGGGCCACCA
361	1443	168	CGCGGCGCCAACCCCGCAGCCGGCGTGGGCCACCACCGCCT
362	1443	171	GGCGCCAACCCCGCAGCCGGCGTGGGCCACCACCGCCTGCT

363	1443	184	CAGCCGGCGTGGGCCACCAC**C**GCCTGCTCACCGCCGCCAGC
364	1443	195	GGCCACCACCGCCTGCTCAC**C**GCCGCCAGCGAGCGCGCCAT
365	1443	198	CACCACCGCCTGCTCACCGC**C**GCCAGCGAGCGCGCCATCGC
366	1443	204	CGCCTGCTCACCGCCGCCAG**C**GAGCGCGCCATCGCCACCCG
367	1443	208	TGCTCACCGCCGCCAGCGAG**C**GCGCCATCGCCACCCGCCGC
368	1443	210	CTCACCGCCGCCAGCGAGCG**C**GCCATCGCCACCCGCCGCCG
369	1443	216	GCCGCCAGCGAGCGCGCCAT**C**GCCACCCGCCGCCGCGCCCA
370	1443	223	GCGAGCGCGCCATCGCCACC**C**GCCGCCGCGCCCAGGCCGCC
371	1443	226	AGCGCGCCATCGCCACCCGC**C**GCCGCGCCCAGGCCGCCGTC
372	1443	229	GCGCCATCGCCACCCGCCGC**C**GCGCCCAGGCCGCCGTCAGT
373	1443	231	GCCATCGCCACCCGCCGCCG**C**GCCCAGGCCGCCGTCAGTGC
374	1443	240	ACCCGCCGCCGCGCCCAGGC**C**GCCGTCAGTGCCGAGCTGGC
375	1443	243	CGCCGCCGCGCCCAGGCCGC**C**GTCAGTGCCGAGCTGGCGGA
376	1443	252	GCCCAGGCCGCCGTCAGTGC**C**GAGCTGGCGGAGCGGCCGGC
377	1443	260	CGCCGTCAGTGCCGAGCTGG**C**GGAGCGGCCGGCTGTGTTCC
378	1443	265	TCAGTGCCGAGCTGGCGGAG**C**GGCCGGCTGTGTTCCAGGCA
379	1443	317	GAGAGAAAGAGTAGAGCAAG**C**GGGGGTGGGCCTTGTGGGGA
380	1443	339	GGGGTGGGCCTTGTGGGGAG**C**GGGCGTCAGTGGAAGAAAGT
381	1443	343	TGGGCCTTGTGGGGAGCGGG**C**GTCAGTGGAAGAAAGTGGTC
382	1443	371	GAAGAAAGTGGTCTGGGCGG**C**GTTGGGGGCGCGCCGGGGCG
383	1443	380	GGTCTGGGCGGCGTTGGGGG**C**GCGCCGGGGCGGGGACGTGG
384	1443	385	GGGCGGCGTTGGGGGCGCGC**C**GGGGCGGGGACGTGGATTCG
385	1443	390	GCGTTGGGGGCGCGCCGGGG**C**GGGGACGTGGATTCGACGGG
386	1443	404	CCGGGGCGGGGACGTGGATT**C**GACGGGATAGGTTCGGCTCG
387	1443	407	GGGCGGGGACGTGGATTCGA**C**GGGATAGGTTCGGCTCGTGT
388	1443	418	TGGATTCGACGGGATAGGTT**C**GGCTCGTGTCGTTTGTCCTT
389	1443	423	TCGACGGGATAGGTTCGGCT**C**GTGTCGTTTGTCCTTTTGGC
390	1443	428	GGGATAGGTTCGGCTCGTGT**C**GTTTGTCCTTTTGGCTCACT
391	1443	453	GTCCTTTTGGCTCACTGTGT**C**GCTTGCACCCCAACCCCGCG
392	1445	4	GGAGTGTTGCTGGTAATTGT**C**GGCCGCATGCGCAACCGACG
393	1445	8	TGTTGCTGGTAATTGTCGGC**C**GCATGCGCAACCGACGCCAC
394	1445	14	TGGTAATTGTCGGCCGCATG**C**GCAACCGACGCCACTGCCGC
395	1445	20	TTGTCGGCCGCATGCGCAAC**C**GACGCCACTGCCGCGAGGCA
396	1445	23	TCGGCCGCATGCGCAACCGA**C**GCCACTGCCGCGAGGCAAGC
397	1445	32	TGCGCAACCGACGCCACTGC**C**GCGAGGCAAGCGACGGCGAA
398	1445	34	CGCAACCGACGCCACTGCCG**C**GAGGCAAGCGACGGCGAACA
399	1445	43	CGCCACTGCCGCGAGGCAAG**C**GACGGCGAACACCGCGAGGG
400	1445	46	CACTGCCGCGAGGCAAGCGA**C**GGCGAACACCGCGAGGGCAC
401	1445	49	TGCCGCGAGGCAAGCGACGG**C**GAACACCGCGAGGGCACCCA
402	1445	56	AGGCAAGCGACGGCGAACAC**C**GCGAGGGCACCCATCTTGAT
403	1445	58	GCAAGCGACGGCGAACACCG**C**GAGGGCACCCATCTTGATGG
404	1445	92	TTGATGGTTTCGTCCTGAGC**C**GGTGCTGATTGCCCCGATCC
405	1445	117	CTGATTGCCCCGATCCCAAA**C**GATCCCTTGACAGCGTTGGC
406	1445	131	CCCAAACGATCCCTTGACAG**C**GTTGGCCTAATTCGATATCA
407	1445	144	TTGACAGCGTTGGCCTAATT**C**GATATCAAGCTTATCGATAC
408	1445	165	GATATCAAGCTTATCGATAC**C**GTCGAGATCTAGATAAAGTC
409	1445	168	ATCAAGCTTATCGATACCGT**C**GAGATCTAGATAAAGTCCGG
410	1445	186	GTCGAGATCTAGATAAAGTC**C**GGAGATCACGAGGCGCCCTT
411	1445	195	TAGATAAAGTCCGGAGATCA**C**GAGGCGCCCTTGCAGGTGCC
412	1445	200	AAAGTCCGGAGATCACGAGG**C**GCCCTTGCAGGTGCCCACAA
413	1445	237	ACAAAATAGCTTAGCAGAGG**C**GCAAGGTCTTATATACAGTA
414	1445	292	TTGTTATAATTTCTCTGCCC**C**GCAGCTTGCATTAAGTAGTC
415	1445	328	TAGTCCTGCAGCCGACTGTT**C**GAAGTGTAAAGAGCCCGTAC

416	1445	344	TGTTCGAAGTGTAAAGAGCC**C**GTACATGTAGGGCCCCGTTT
417	1445	379	CCGTTTTTCCAAAAAAATTC**C**GCATGGCGCCATCATGGCGG
418	1445	386	TCCAAAAAAATTCCGCATGG**C**GCCATCATGGCGGGGTGGGA
419	1445	407	GCCATCATGGCGGGGTGGGA**C**GTACGTGGATTATGCATAAC
420	1445	411	TCATGGCGGGGTGGGACGTA**C**GTGGATTATGCATAACGTCC
421	1447	40	CAGTGAGCCAAAAGGACAAA**C**GACACGAGCCGAACCTATCC
422	1447	45	AGCCAAAAGGACAAACGACA**C**GAGCCGAACCTATCCCGTCG
423	1447	50	AAAGGACAAACGACACGAGC**C**GAACCTATCCCGTCGAATCC
424	1447	64	ACGAGCCGAACCTATCCCGT**C**GAATCCACGTCCCCGCCCCG
425	1447	72	AACCTATCCCGTCGAATCCA**C**GTCCCCGCCCCGGCGCGCCC
426	1447	78	TCCCGTCGAATCCACGTCCC**C**GCCCCGGCGCGCCCCCAACG
427	1447	83	TCGAATCCACGTCCCCGCCC**C**GGCGCGCCCCCAACGCCGCC
428	1447	86	AATCCACGTCCCCGCCCCGG**C**GCGCCCCCAACGCCGCCCAG
429	1447	97	CCGCCCCGGCGCGCCCCCAA**C**GCCGCCCAGACCACTTTCTT
430	1447	100	CCCCGGCGCGCCCCCAACGC**C**GCCCAGACCACTTTCTTCCA
431	1447	129	CACTTTCTTCCACTGACGCC**C**GCTCCCCACAAGGCCCACCC
432	1447	151	CTCCCCACAAGGCCCACCCCC**C**GCTTGCTCTACTCTTTCTCT
433	1447	203	TTGCCTGGAACACAGCCGGC**C**GCTCCGCCAGCTCGGCACTG
434	1447	216	AGCCGGCCGCTCCGCCAGCT**C**GGCACTGACGGCGGCCTGGG
435	1447	225	CTCCGCCAGCTCGGCACTGA**C**GGCGGCCTGGGCGCGGCGGC
436	1447	228	CGCCAGCTCGGCACTGACGG**C**GGCCTGGGCGCGGCGGCGGG
437	1447	237	GGCACTGACGGCGGCCTGGG**C**GCGGCGGCGGGTGGCGATGG
438	1447	239	CACTGACGGCGGCCTGGGCG**C**GGCGGCGGGTGGCGATGGCG
439	1447	242	TGACGGCGGCCTGGGCGCGG**C**GGCGGGTGGCGATGGCGCGC
440	1447	245	CGGCGGCCTGGGCGCGGCGG**C**GGGTGGCGATGGCGCGCTCG
441	1447	252	CTGGGCGCGGCGGCGGGTGG**C**GATGGCGCGCTCGCTGGCGG
442	1447	258	GCGGCGGCGGGTGGCGATGG**C**GCGCTCGCTGGCGGCGGTGA
443	1447	260	GGCGGCGGGTGGCGATGGCG**C**GCTCGCTGGCGGCGGTGAGC
444	1447	270	GGCGATGGCGCGCTCGCTGG**C**GGCGGTGAGCAGGCGGTGGT
445	1447	273	GATGGCGCGCTCGCTGGCGG**C**GGTGAGCAGGCGGTGGTGGC
446	1447	284	CGCTGGCGGCGGTGAGCAGG**C**GGTGGTGGCCCACGCCGGCT
447	1447	297	GAGCAGGCGGTGGTGGCCCA**C**GCCGGCTGCGGGGTTGGCGC
448	1447	300	CAGGCGGTGGTGGCCCACGC**C**GGCTGCGGGGTTGGCGCCGC
449	1447	306	GTGGTGGCCCACGCCGGCTG**C**GGGGTTGGCGCCGCGGATCT
450	1447	315	CACGCCGGCTGCGGGGTTGG**C**GCCGCGGATCTGCGTCTTAA
451	1447	318	GCCGGCTGCGGGGTTGGCGC**C**GCGGATCTGCGTCTTAAACT
452	1447	320	CGGCTGCGGGGTTGGCGCCG**C**GGATCTGCGTCTTAAACTGA
453	1447	328	GGGTTGGCGCCGCGGATCTG**C**GTCTTAAACTGACTGTCCTC
454	1447	445	TCAACAGCAGGCCTGGGCCG**C**GTGCCCGCACCCCACACACG
455	1447	451	GCAGGCCTGGGCCGCGTGCC**C**GCACCCCACACACGCGGGTT
456	1447	464	GCGTGCCCGCACCCCACACA**C**GCGGGTTGGGGTGCAAGCGA
457	1447	466	GTGCCCGCACCCCACACACG**C**GGGTTGGGGTGCAAGCGACA
458	1470	30	TCACCCCTGCACTGCCTCCT**C**GCTCCACCCCAGCACCTTTC
459	1470	63	CACCTTTCCATCGACACCTC**C**GCCCTCCCTCCGCAGTTCTC
460	1470	74	CGACACCTCCGCCCTCCCTC**C**GCAGTTCTCTCCCCGCCTCC
461	1470	142	GTCCGGGCACCCTCTGAGGG**C**GCGCGGGCTCGAGACGGAGG
462	1470	165	GCGGGCTCGAGACGGAGGGA**C**GCGGGTCAGTGCAGGGTCGC
463	1470	183	GACGCGGGTCAGTGCAGGGT**C**GCCAACTGCCCGCTCCCAGA
464	1470	194	GTGCAGGGTCGCCAACTGCC**C**GCTCCCAGAGGAGGCTGGGA
465	1470	216	CTCCCAGAGGAGGCTGGGAC**C**GGACGCCGCTGACTTCCGCA
466	1470	223	AGGAGGCTGGGACCGGACGC**C**GCTGACTTCCGCATGAAGCG
467	1470	255	CATGAAGCGCCCCGTCTACG**C**GTGGCCTCTTGGGAGTGGGA
468	1470	277	TGGCCTCTTGGGAGTGGGAG**C**GCTCCTCCAATGGCAGCAGG

469	1470	298	GCTCCTCCAATGGCAGCAGGCGACACGGCTAGGCCTGCTGC
470	1470	318	CGACACGGCTAGGCCTGCTGCGTTCCCAGCCCCCCGCACTT
471	1470	332	CTGCTGCGTTCCCAGCCCCCCGCACTTCCCAGGAGCCGTAC
472	1470	375	CATTCTGGGAGTAGTAGTTCCGGTTGGAGTATCACTGAGTG
473	1470	405	ATCACTGAGTGTTTCACGTTCGTTCGACAGCTCTTGTGGTA
474	1470	409	CTGAGTGTTTCACGTTCGTTCGACAGCTCTTGTGGTAAACA
475	1470	431	ACAGCTCTTGTGGTAAACAGCGTCAAATGCCGTATAGGAAG
476	3162	1	TTTCTTCCGTTGCCCCAGTACGGATACATATTTGAATGTAT
477	3162	48	AAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAG
478	3162	50	ATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTG
479	3162	79	CCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTAT
480	3162	125	CATTAACCTATAAAAATAGGCGTATCACGAGGCCCTTTCGT
481	3162	132	CTATAAAAATAGGCGTATCACGAGGCCCTTTCGTCTTCAAG
482	3162	143	GGCGTATCACGAGGCCCTTTCGTCTTCAAGAATTCTCATGT
483	3162	201	ATAAGCTGATCCTCACAGGCGCACCCAGCTTTTCTTCCGT
484	3162	219	GCCGCACCCAGCTTTTCTTCCGTTGCCCCAGTACGGATACA
485	3164	103	AAGTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTC
486	3167	3	CGGAGACCCCAAAAACGTTCCGGCGGCAGTGGACCTCAAAG
487	3168	2	CGGCCCACAACCTGGCCCGACGTAGAAAGGACTACCGACGA
488	3168	117	CCCTTGCTATTCCACAATGTCGTCTTACACCATTGAGTCGT
489	3169	45	ATCTGTCTTGTCACCATTTTCGTCCTCCCAACATGGGGCAA
490	3169	87	TGGGCATACCCATGTTGTCACGTCACTCAGCTCCGCGCTCA
491	3169	100	GTTGTCACGTCACTCAGCTCCGCGCTCAACACCTTCTCGCG
492	3169	102	TGTCACGTCACTCAGCTCCGCGCTCAACACCTTCTCGCGTT
493	3169	117	CTCCGCGCTCAACACCTTCTCGCGTTGGAAAACATTAGCGA
494	3169	135	CTCGCGTTGGAAAACATTAGCGACATTTACCTGGTGAGCAA
495	3169	165	CTGGTGAGCAATCAGACATGCGACGGCTTTAGCCTGGCCTC
496	3170	215	TTTAAAGTTCTGCTATGTGGCGCGGTATTATCCCGTGTTGA
497	3170	239	GTATTATCCCGTGTTGACGCCGGGCAAGAGCAACTCGGTCG
498	3170	258	CCGGGCAAGAGCAACTCGGTCGCCGATTTCCGTGTCGCCCT
499	3171	13	AATAACCCCTACTGGGGCAACGGAAGAAAAGCTGGGTGCGG
500	3171	31	AACGGAAGAAAAGCTGGGTGCGGCCTGTGAGGATCAGCTTA
501	3171	53	GCCTGTGAGGATCAGCTTATCGATGATAAGCTGTCAAACAT
502	3171	89	AACATGAGAATTCTTGAAGACGAAAGGGCCTCGTGATACGC
503	3171	100	TCTTGAAGACGAAAGGGCCTCGTGATACGCCTATTTTTATA
504	3171	107	GACGAAAGGGCCTCGTGATACGCCTATTTTTATAGGTTAAT
505	3171	153	GATAATAATGGTTTCTTAGACGTCAGGTGGCACTTTTCGGG
506	3171	170	AGACGTCAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACC
507	3171	184	ACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATT
508	3173	18	CCGGACGTTTTTGGGGTCTCCGGACACCATCTCTATGTCTT
509	3173	55	TCTTGGCCCTGATCCTGAGCCGCCCGGGGCTCCTGGTCTTC
510	3173	59	GGCCCTGATCCTGAGCCGCCCGGGGCTCCTGGTCTTCCGCC
511	3173	76	GCCCGGGGCTCCTGGTCTTCCGCCTCCTCGTCCTCGTCCTC
512	3173	102	CTCGTCCTCGTCCTCTTCCCCGTCCTCGTCCATGGTTATCA
513	3175	61	ATTGCTCACCAGGTAAATGTCGCTAATGTTTTCCAACGCGA
514	3175	79	GTCGCTAATGTTTTCCAACGCGAGAAGGTGTTGAGCGCGGA
515	3175	94	CAACGCGAGAAGGTGTTGAGCGCGGAGCTGAGTGACGTGAC
516	3175	96	ACGCGAGAAGGTGTTGAGCGCGGAGCTGAGTGACGTGACAA
517	3175	109	TTGAGCGCGGAGCTGAGTGACGTGACAACATGGGTATGCCC
518	3175	151	ATTGCCCCATGTTGGGAGGACGAAAATGGTGACAAGACAGA
519	3175	195	CCAGAAATACACCAACAGCACGCATGTGAATTTAAGGAGGC
520	21046	74	GGCTTTTGGGCTCTGCCCCTCGCTGCTCCCGGCGTTTGGCG
521	21127	26	CCTGGAGGAGAAGACAGAAACGGACTCGCCACGCTTGCCCT

522	21127	32	GGAGAAGACAGAAACGGACTCGCCACGCTTGCCCTCCCCGC
523	21127	37	AGACAGAAACGGACTCGCCACGCTTGCCCTCCCCGCCACGC
524	21127	55	CACGCTTGCCCTCCCCGCCACGCCCCGCTCGGTTCGTTACT
525	21127	64	CCTCCCCGCCACGCCCCGCTCGGTTCGTTACTCTGTAGAGG
526	21127	89	CGTTACTCTGTAGAGGCTGGCGACCAGCAAAAGAGAAAGTT
527	21127	126	AGTTCCCGAGCTTTACAACTCTCCGGGAAGCGTAGGGAACG
528	21127	129	TCCCGAGCTTTACAACTCTCCGGGAAGCGTAGGGAACGTTT
529	21127	155	GCGTAGGGAACGTTTCCTCTCGGAAAGCTCTTCGCCGCGAT
530	21135	107	TTGCAACCCTGCGGGCCGCGCGGTCGCGCTTTCTCTGCCCT
531	21135	111	AACCCTGCGGGCCGCGCGGTCGCGCTTTCTCTGCCCTCCGC
532	21135	113	CCCTGCGGGCCGCGCGGTCGCGCTTTCTCTGCCCTCCGCCG
533	21135	129	GTCGCGCTTTCTCTGCCCTCCGCCGGGTGGACCTGGAGCGC
534	21135	164	GAGCGCTTGAGCGGTCGGCGCGCCTGGAGCAGCCAGGCGGG
535	21135	312	GGGACGGCAAGAGAGGAGGGCGGGATGTGCCACACATCTTT
536	21139	51	TCCTCCAACAAGAATTTAGACGCTAGGTCCAATTATCACTC
537	21139	75	AGGTCCAATTATCACTCCACCGCGCGCACTTTCCGCAGGAG
538	21139	77	GTCCAATTATCACTCCACCGCGCGCACTTTCCGCAGGAGCG
539	21139	79	CCAATTATCACTCCACCGCGCGCACTTTCCGCAGGAGCGAT
540	21139	88	ACTCCACCGCGCGCACTTTCCGCAGGAGCGATGTGATCCGT
541	21139	106	TCCGCAGGAGCGATGTGATCCGTTATCATAACTGCGGACCT
542	21139	120	GTGATCCGTTATCATAACTGCGGACCTGGGGTTCCACGTGG
543	21139	136	ACTGCGGACCTGGGGTTCCACGTGGAAGACGATTGGGATTT
544	21139	145	CTGGGGTTCCACGTGGAAGACGATTGGGATTTCACTGGCCG
545	21139	216	TGGGGTTAGTGGACTCGAGACGAAAGGCAGGACATGACAGA
546	21139	325	AAAAGTGAGTCAGGGTTACCCGGAGGAACCACGGGGAAAGT
547	21139	336	AGGGTTACCCGGAGGAACCACGGGGAAAGTGCGCTTCTGAG
548	21139	347	GAGGAACCACGGGGAAAGTGCGCTTCTGAGACTCTTGACAG
549	21139	374	GAGACTCTTGACAGCCATTTCGTTCCCTTCCAAGCCAGATG
550	21139	420	CCAAGAGTGTTGAAAGGCCACGACTTCCCTCAGTTTCTCCA
551	21139	473	GGATGGTATAGGGAGTGGCCCGTAGTATTTTTCCAGTGACG
552	21139	492	CCGTAGTATTTTTCCAGTGACGATGTCTCTCCATTGTTTTC
553	21148	28	TTGCAGGCTTACAGGCTTTCCGCCGCTCCCCGTTGGCAGCC
554	21148	33	GGCTTACAGGCTTTCCGCCGCTCCCCGTTGGCAGCCTTGGT
555	21148	38	ACAGGCTTTCCGCCGCTCCCCGTTGGCAGCCTTTGTCGAAT
556	21148	215	GGGCAGACGACCCCAGGCATCGCGCACGTCCAGCCGCGCCC
557	21148	229	AGGCATCGCGCACGTCCAGCCGCGCCCCGGCCCGGTGCAGC
558	21148	320	GGTGAGAGTGGCAGGGTCTGCGCAGTTGGGCTCCGCGCCGT
559	21148	333	GGGTCTGCGCAGTTGGGCTCCGCGCCGTGGAGCAGCAGCAG
560	21148	338	TGCGCAGTTGGGCTCCGCGCCGTGGAGCAGCAGCAGCTCCG
561	21148	357	CCGTGGAGCAGCAGCAGCTCCGCCACGCGGGCGCTGCCCAT
562	21148	362	GAGCAGCAGCAGCTCCGCCACGCGGGCGCTGCCCATCATCA
563	21152	469	TGCAACTGCCGGTCAACACGCGCAGCCTACTCAGCGCTGCT
564	21152	483	AACACGCGCAGCCTACTCAGCGCTGCTCCGGAGGCGCGGGA
565	21152	507	GCTCCGGAGGCGCGGGACGCCGCCTCCACGTGAGCCGCGCT
566	21152	522	GACGCCGCCTCCACGTGAGCCGCGCTCCTCCCAGTGCCCGG
567	21166	74	GCCCCCAGCGGGCGAGAGAGCGGACTGGTCCAAGAGCTGCG
568	21166	186	GGGGTTTCGCAGCTGGCGCGCGGCGGCAGGGCCTCGAAGCT
569	21166	242	GTAGACGTGCAGGATCCGTGCGGACCCATCCCCGTACACGC
570	21166	254	GATCCGTGCGGACCCATCCCCGTACACGCGCCCCTTTTCTT
571	21166	260	TGCGGACCCATCCCCGTACACGCGCCCCTTTTCTTCCTCCG
572	21166	279	ACGCGCCCCTTTTCTTCCTCCGCCCAGGGTCCGCGCGGGCC
573	21206	12	CCGCGGCCGGAGAAGGGCAGCGGGAAGTGCGCTGTGCAGGA
574	21206	39	TGCGCTGTGCAGGAGCCAGACGTCTCAGCCCGTGTGGCCAG

575	21206	49	AGGAGCCAGACGTCTCAGCCCGTGTGGCCAGAGGTGGCAGG
576	21206	72	GTGGCCAGAGGTGGCAGGGGCGCGGCCTGAGCGGGGCTGGG
577	21206	74	GGCCAGAGGTGGCAGGGGCGCGGCCTGAGCGGGGCTGGGGC
578	21206	94	CGGCCTGAGCGGGGCTGGGGCGCGGGCAGGATTTGGGGCTG
579	21206	115	GCGGGCAGGATTTGGGGCTGCGCCGAGGGGCGTCCCGACCT
580	21206	118	GGCAGGATTTGGGGCTGCGCCGAGGGGCGTCCCGACCTGGC
581	21206	130	GGCTGCGCCGAGGGGCGTCCCGACCTGGCCCTTTGCCACGG
582	21206	223	CGCCTTCACCCCCCTGGGTGCGTTTCAGCGGTCCCGGAGCC
583	21206	247	TCAGCGGTCCCGGAGCCTGGCGGGAGCGGGGCCAGGAGCGC
584	21206	253	GTCCCGGAGCCTGGCGGGAGCGGGGCCAGGAGCGCTCCGCG
585	21206	270	GAGCGGGGCCAGGAGCGCTCCGCGGCCGGAGAAGGGCAGCG
586	21206	272	GCGGGGCCAGGAGCGCTCCGCGGCCGGAGAAGGGCAGCGGG
587	21210	2	TCGCATGTTCCTTTTGGCGACGTAGCTTCCAGGAAAACGAA
588	21210	19	CGACGTAGCTTCCAGGAAAACGAAAGCACGGAAGCCTGGGG
589	21210	27	CTTCCAGGAAAACGAAAGCACGGAAGCCTGGGGTCCCCACC
590	21210	47	CGGAAGCCTGGGGTCCCCACCGCGCGTTCATCAGGTTCGGG
591	21210	49	GAAGCCTGGGGTCCCCACCGCGCGTTCATCAGGTTCGGGGC
592	21210	51	AGCCTGGGGTCCCCACCGCGCGTTCATCAGGTTCGGGGCGC
593	21210	64	CACCGCGCGTTCATCAGGTTCGGGGCGCTGGGAATGCCCGG
594	21210	69	CGCGTTCATCAGGTTCGGGGCGCTGGGAATGCCCGGCGCAT
595	21210	82	TTCGGGGCGCTGGGAATGCCCGGCGCATGCGCAGAGGTAAC
596	21210	85	GGGGCGCTGGGAATGCCCGGCGCATGCGCAGAGGTAACACG
597	21210	91	CTGGGAATGCCCGGCGCATGCGCAGAGGTAACACGTCACAT
598	21210	104	GCGCATGCGCAGAGGTAACACGTCACATCGCATGTTCCTTT
599	21210	112	GCAGAGGTAACACGTCACATCGCATGTTCCTTTTGGCGACG
600	21210	128	ACATCGCATGTTCCTTTTGGCGACGTAGCTTCCAGGAAAAC
601	21226	18	GAGAATTTTTCTAAGCCCTGCGCAGACCGCAGCGCCCCGGT
602	21226	25	TTTCTAAGCCCTGCGCAGACCGCAGCGCCCCGGTGGGTCCC
603	21226	35	CTGCGCAGACCGCAGCGCCCCGGTGGGTCCCGGGCGGGCCG
604	21226	49	GCGCCCCGGTGGGTCCCGGGCGGGCCGGACGCGCCTCCCAA
605	21226	54	CCGGTGGGTCCCGGGCGGGCCGGACGCGCCTCCCAAGGGCG
606	21226	58	TGGGTCCCGGGCGGGCCGGACGCGCCTCCCAAGGGCGCGGG
607	21226	60	GGTCCCGGGCGGGCCGGACGCGCCTCCCAAGGGCGCGGGTC
608	21226	73	CCGGACGCGCCTCCCAAGGGCGCGGGTCCGAGGCGCAAGGC
609	21226	75	GGACGCGCCTCCCAAGGGCGCGGGTCCGAGGCGCAAGGCGA
610	21226	81	GCCTCCCAAGGGCGCGGGTCCGAGGCGCAAGGCGAGCTGGA
611	21226	86	CCAAGGGCGCGGGTCCGAGGCGCAAGGCGAGCTGGAGACCC
612	21226	93	CGCGGGTCCGAGGCGCAAGGCGAGCTGGAGACCCCGAAAAC
613	21251	81	CAGTCCCCTTTCACCAAGCCCGTCCTCCCCTTCCCGCTGCC
614	21251	103	TCCTCCCCTTCCCGCTGCCACGACACTGGTGCCTGCAGCCG
615	21251	122	ACGACACTGGTGCCTGCAGCCGTGCCAGCTAGGAGGGCGAC
616	21251	139	AGCCGTGCCAGCTAGGAGGGCGACGTGGACAGGATTTCTCT
617	21251	142	CGTGCCAGCTAGGAGGGCGACGTGGACAGGATTTCTCTCTA
618	21251	180	CTAGAAAGGATCCTGGGGTCCGATTGAGAAGCTGGCTTGAA
619	21251	201	GATTGAGAAGCTGGCTTGAACGTTAGACGCGGCGGGCGTGG
620	21251	208	AAGCTGGCTTGAACGTTAGACGCGGCGGGCGTGGGTCTGAT
621	21259	347	TGTACGCGTGGGTGTGTGCACGTGGGTGTGTACATGTGGGT
622	21259	369	TGGGTGTGTACATGTGGGTGCGCACGTGGGTGTGTGCGCGC
623	21259	373	TGTGTACATGTGGGTGCGCACGTGGGTGTGTGCGCGCGTGT
624	21259	385	GGTGCGCACGTGGGTGTGTGCGCGCGTGTGTGTGCATGGGT
625	21259	387	TGCGCACGTGGGTGTGTGCGCGCGTGTGTGTGCATGGGTGC
626	21259	389	CGCACGTGGGTGTGTGCGCGCGTGTGTGTGCATGGGTGCGT
627	21259	407	CGCGTGTGTGTGCATGGGTGCGTGCGCATGGGTGCACGCGC

628	21259	411	TGTGTGTGCATGGGTGCGTGCGCATGGGTGCACGCGCGTGT
629	21259	423	GGTGCGTGCGCATGGGTGCACGCGCGTGTGTGCGTGCATGG
630	21259	425	TGCGTGCGCATGGGTGCACGCGCGTGTGTGCGTGCATGGGC
631	21259	427	CGTGCGCATGGGTGCACGCGCGTGTGTGCGTGCATGGGCGT
632	21259	435	TGGGTGCACGCGCGTGTGTGCGTGCATGGGCGTGCAAGTGG
633	21259	445	CGCGTGTGTGCGTGCATGGGCGTGCAAGTGGGTGCGTGTGC
634	21259	491	GGTGTGCACGTGGGTGTGTGCGTGTGGGTGTGTGCATGCGT
635	21259	509	TGCGTGTGGGTGTGTGCATGCGTGTACACACAGCTGCGCGG
636	21259	527	TGCGTGTACACACAGCTGCGCGGAAGAACCCGGGACGCAGC
637	21259	537	CACAGCTGCGCGGAAGAACCCGGGACGCAGCCACCCTTCCT
638	21285	1	GGCCGCGTCCCCCGCGCGCGCGCGACGTGCACCCGGCGTTC
639	21285	3	CCGCGTCCCCCGCGCGCGCGCGACGTGCACCCGGCGTTCAG
640	21285	6	CGTCCCCCGCGCGCGCGCGACGTGCACCCGGCGTTCAGCGA
641	21285	14	GCGCGCGCGCGACGTGCACCCGGCGTTCAGCGAGTTCCTCA
642	21285	17	CGCGCGCGACGTGCACCCGGCGTTCAGCGAGTTCCTCATCA
643	21285	24	GACGTGCACCCGGCGTTCAGCGAGTTCCTCATCAACACCTA
644	21285	45	GAGTTCCTCATCAACACCTACGGAATCCTGAAGCAGCGGCC
645	21285	61	CCTACGGAATCCTGAAGCAGCGGCCCGACCTGCGCGCCAAC
646	21285	66	GGAATCCTGAAGCAGCGGCCCGACCTGCGCGCCAACCCCCT
647	21285	73	TGAAGCAGCGGCCCGACCTGCGCGCCAACCCCCTGCACAGC
648	21285	75	AAGCAGCGGCCCGACCTGCGCGCCAACCCCCTGCACAGCAG
649	21285	98	CAACCCCCTGCACAGCAGCCCGGCCGCGCTGCGCAAGCTGG
650	21285	104	CCTGCACAGCAGCCCGGCCGCGCTGCGCAAGCTGGTCATCG
651	21285	109	ACAGCAGCCCGGCCGCGCTGCGCAAGCTGGTCATCGACGTG
652	21285	123	GCGCTGCGCAAGCTGGTCATCGACGTGGTGCCCCCCAAGTT
653	21285	126	CTGCGCAAGCTGGTCATCGACGTGGTGCCCCCCAAGTTCCT
654	21285	150	GTGCCCCCCAAGTTCCTGGGCGACTCGCTGCTGCTGCTCAA
655	21285	155	CCCCAAGTTCCTGGGCGACTCGCTGCTGCTGCTCAACTGCC
656	21285	180	CTGCTGCTCAACTGCCTGTGCGAGCTCTCCAAGGAGGACGG
657	21285	198	TGCGAGCTCTCCAAGGAGGACGGCAAGCCCCTCTTCGCCTG
658	21285	213	GAGGACGGCAAGCCCCTCTTCGCCTGGTGAGCCGCCCCGCG
659	21285	225	CCCCTCTTCGCCTGGTGAGCCGCCCCGCGCCCGCCGCCTTG
660	21285	230	CTTCGCCTGGTGAGCCGCCCCGCGCCCGCCGCCTTGCCTGC
661	21285	232	TCGCCTGGTGAGCCGCCCCGCGCCCGCCGCCTTGCCTGCAG
662	21285	236	CTGGTGAGCCGCCCCGCGCCCGCCGCCTTGCCTGCAGTAAA
663	21285	239	GTGAGCCGCCCCGCGCCCGCCGCCTTGCCTGCAGTAAACGC
664	21285	257	GCCGCCTTGCCTGCAGTAAACGCGTTTGTTCCAACCCGGGG
665	21285	259	CGCCTTGCCTGCAGTAAACGCGTTTGTTCCAACCCGGGGCC
666	21285	273	TAAACGCGTTTGTTCCAACCCGGGGCCGCGGTGCCTCCTGC
667	21285	279	CGTTTGTTCCAACCCGGGGCCGCGGTGCCTCCTGCGCGTCC
668	21285	281	TTTGTTCCAACCCGGGGCCGCGGTGCCTCCTGCGCGTCCCC
669	21285	293	CGGGGCCGCGGTGCCTCCTGCGCGTCCCCCCGGAGGGGAAA
670	21285	295	GGGCCGCGGTGCCTCCTGCGCGTCCCCCCGGAGGGGAAAGG
671	21285	303	GTGCCTCCTGCGCGTCCCCCCGGAGGGGAAAGGGCCGCGTC
672	21285	318	CCCCCCGGAGGGGAAAGGGCCGCGTCCCCCGCGCGCGCGCG
673	21285	320	CCCCGGAGGGGAAAGGGCCGCGTCCCCCGCGCGCGCGCGAC
674	21285	327	GGGGAAAGGGCCGCGTCCCCCGCGCGCGCGCGACGTGCACC
675	21285	329	GGAAAGGGCCGCGTCCCCCGCGCGCGCGCGACGTGCACCCG
676	21285	331	AAAGGGCCGCGTCCCCCGCGCGCGCGCGACGTGCACCCGGC
677	21285	333	AGGGCCGCGTCCCCCGCGCGCGCGCGACGTGCACCCGGCGT
678	21352	27	TGGGGACCGGGGAAAGCGCTCTTGGGACCCAGGCCGAATGC
679	21354	154	CAAGTAGGATCGCGGGACCACAGGTTTGATTATAAACGCCA
680	21354	333	TTTGGTCAGAGCGATAGCTTCTCCGATTGCCTCAGAGCAAG

681	21354	430	CACGTCTGGTACAGTCATCA**C**AAGCCTGTTCGGCGACGACC
682	21357	1	GGCGTACACACTCAATCCTC**C**GGGGCGGAGTGCGTGTCCTC
683	21357	6	ACACACTCAATCCTCCGGGG**C**GGAGTGCGTGTCCTCCCACC
684	21357	13	CAATCCTCCGGGGCGGAGTG**C**GTGTCCTCCCACCGTGCTGG
685	21357	26	CGGAGTGCGTGTCCTCCCAC**C**GTGCTGGCGCTGAACTGACT
686	21357	34	GTGTCCTCCCACCGTGCTGG**C**GCTGAACTGACTGTCCGCTG
687	21357	50	CTGGCGCTGAACTGACTGTC**C**GCTGCCAAGGGAAGTGACAG
688	21357	72	CTGCCAAGGGAAGTGACAGC**C**GCAGCCGGGCTCTCAGCCAG
689	21357	78	AGGGAAGTGACAGCCGCAGC**C**GGGCTCTCAGCCAGCGGCCG
690	21357	93	GCAGCCGGGCTCTCAGCCAG**C**GGCCGGGCGCCCCGCGGACC
691	21357	97	CCGGGCTCTCAGCCAGCGGC**C**GGGCGCCCCGCGGACCATGC
692	21357	101	GCTCTCAGCCAGCGGCCGGG**C**GCCCCGCGGACCATGCTCTC
693	21357	106	CAGCCAGCGGCCGGGCGCCC**C**GCGGACCATGCTCTCCAGTA
694	21357	108	GCCAGCGGCCGGGCGCCCCG**C**GGACCATGCTCTCCAGTACG
695	21357	134	ATGCTCTCCAGTACGCAGAA**C**GCGGGCGGCTCCTATCAGCG
696	21357	136	GCTCTCCAGTACGCAGAACG**C**GGGCGGCTCCTATCAGCGGG
697	21357	140	TCCAGTACGCAGAACGCGGG**C**GGCTCCTATCAGCGGGTCCG
698	21357	153	ACGCGGGCGGCTCCTATCAG**C**GGGTCCGCGGGGCGCTTGAT
699	21357	159	GCGGCTCCTATCAGCGGGTC**C**GCGGGGCGCTTGATACACAG
700	21357	161	GGCTCCTATCAGCGGGTCCG**C**GGGGCGCTTGATACACAGGT
701	21357	166	CTATCAGCGGGTCCGCGGGG**C**GCTTGATACACAGGTAAAGT
702	21357	269	AGTGGGGAGAGGTGAGTCCTCGAACCCTGAACGTGGACGGA
703	21357	280	GTGAGTCCTCGAACCCTGAA**C**GTGGACGGACGAGCCCTTGT
704	21357	286	CCTCGAACCCTGAACGTGGA**C**GGACGAGCCCTTGTTTCAGT
705	21357	290	GAACCCTGAACGTGGACGGA**C**GAGCCCTTGTTTCAGTAGCC
706	21357	319	GTTTCAGTAGCCAACACACA**C**GGGACAGACAGACCGGCGTA
707	21357	333	CACACACGGGACAGACAGAC**C**GGCGTACACACTCAATCCTC
708	21357	336	ACACGGGACAGACAGACCGG**C**GTACACACTCAATCCTCCGG
709	21362	1	TTCCTTCAACCCCCGTTTCT**C**GCCCCCAGCGCGCGCTCCCG
710	21362	10	CCCCCGTTTCTCGCCCCCAG**C**GCGCGCTCCCGGCGCCGGCC
711	21362	12	CCCGTTTCTCGCCCCCAGCG**C**GCGCTCCCGGCGCCGGCCCC
712	21362	14	CGTTTCTCGCCCCCAGCGCG**C**GCTCCCGGCGCCGGCCCCGC
713	21362	48	GCCCCGCCCCCTCACCCAGG**C**GGCGCCGTAAAGCCGGAGAA
714	21362	51	CCGCCCCCTCACCCAGGCGG**C**GCCGTAAAGCCGGAGAAGGG
715	21362	54	CCCCCTCACCCAGGCGGCGC**C**GTAAAGCCGGAGAAGGGGCG
716	21362	62	CCCAGGCGGCGCCGTAAAGC**C**GGAGAAGGGGCGGGGTCTCA
717	21362	73	CCGTAAAGCCGGAGAAGGGG**C**GGGGTCTCAGCTCCTACTTC
718	21362	100	TCAGCTCCTACTTCATTCTA**C**GGCCGAGACCGGAGGATGTT
719	21362	104	CTCCTACTTCATTCTACGGC**C**GAGACCGGAGGATGTTCCCT
720	21362	110	CTTCATTCTACGGCCGAGAC**C**GGAGGATGTTCCCTGCTCAG
721	21362	139	TTCCCTGCTCAGGAGGAGGC**C**GACAGGACCGTGTTTGTTGG
722	21362	148	CAGGAGGAGGCCGACAGGAC**C**GTGTTTGTTGGGAATTTAGA
723	21362	173	TTGTTGGGAATTTAGAGGCC**C**GAGTTCGGGAAGAGATTCTG
724	21362	179	GGAATTTAGAGGCCCGAGTT**C**GGGAAGAGATTCTGTACGAG
725	21362	196	GTTCGGGAAGAGATTCTGTA**C**GAGCTGTTCCTTCAGGTACC
726	21362	216	CGAGCTGTTCCTTCAGGTAC**C**GTCTCTGGGAAGGGGCGGCG
727	21362	232	GTACCGTCTCTGGGAAGGGG**C**GGCGGAGGGGCGGAGCACGT
728	21362	235	CCGTCTCTGGGAAGGGGCGG**C**GGAGGGGCGGAGCACGTCGG
729	21362	243	GGGAAGGGGCGGCGGAGGGG**C**GGAGCACGTCGGGCCGGAAA
730	21362	250	GGCGGCGGAGGGGCGGAGCA**C**GTCGGGCCGGAAACATAGCG
731	21362	253	GGCGGAGGGGCGGAGCACGT**C**GGGCCGGAAACATAGCGCGC
732	21362	258	AGGGGCGGAGCACGTCGGGC**C**GGAAACATAGCGCGCACCTG
733	21362	269	ACGTCGGGCCGGAAACATAG**C**GCGCACCTGGACCACCCGGA

734	21362	271	GTCGGGCCGGAAACATAGCGCGCACCTGGACCACCCGGAGC
735	21362	293	CACCTGGACCACCCGGAGCCCGGCCCCCTTCCGTCCCATCC
736	21362	304	CCCGGAGCCCGGCCCCCTTCCGTCCCATCCTGAGCAGGGGT
737	21362	346	TTAATTTCGTTTCCTCTTGGCGCACCTGTCTCCAGGTGAGC
738	21362	366	CGCACCTGTCTCCAGGTGAGCGGCTGGGGGGTGAAATAAGG
739	21362	388	GCTGGGGGGTGAAATAAGGGCGCGTTCCCCATCCCCATCCG
740	21362	390	TGGGGGGTGAAATAAGGGCGCGTTCCCCATCCCCATCCGCG
741	21362	407	GCGCGTTCCCCATCCCCATCCGCGCTGCAGAGTCCTGGGGT
742	21362	409	GCGTTCCCCATCCCCATCCGCGCTGCAGAGTCCTGGGGTTG
743	21368	13	CTCCCTCGTCGAGTTCCAGGCGCTCTAGCCCCAGTCCTGCT
744	21368	112	CCCATGAACTTTGCCAGTAACGCAAGGCTGCCACTGACATT
745	21368	138	GCTGCCACTGACATTTGTGGCGCCAAGACTTGCGCACGCGG
746	21368	150	ATTTGTGGCGCCAAGACTTGCGCACGCGGATTGCACACATC
747	21368	154	GTGGCGCCAAGACTTGCGCACGCGGATTGCACACATCGGCC
748	21368	156	GGCGCCAAGACTTGCGCACGCGGATTGCACACATCGGCCAC
749	21368	170	CGCACGCGGATTGCACACATCGGCCACTTCCTGCACCACGT
750	21368	188	ATCGGCCACTTCCTGCACCACGTGCAATGACGCGCGCACGC
751	21368	198	TCCTGCACCACGTGCAATGACGCGCGCACGCCTCACGCGCA
752	21368	200	CTGCACCACGTGCAATGACGCGCGCACGCCTCACGCGCACG
753	21368	202	GCACCACGTGCAATGACGCGCGCACGCCTCACGCGCACGCC
754	21368	206	CACGTGCAATGACGCGCGCACGCCTCACGCGCACGCCGCAT
755	21368	213	AATGACGCGCGCACGCCTCACGCGCACGCCGCATAACGTCT
756	21368	215	TGACGCGCGCACGCCTCACGCGCACGCCGCATAACGTCTGA
757	21368	219	GCGCGCACGCCTCACGCGCACGCCGCATAACGTCTGAGGCG
758	21368	222	CGCACGCCTCACGCGCACGCCGCATAACGTCTGAGGCGCGC
759	21368	229	CTCACGCGCACGCCGCATAACGTCTGAGGCGCGCACGCCTC
760	21368	238	ACGCCGCATAACGTCTGAGGCGCGCACGCCTCACGCGCGCC
761	21368	240	GCCGCATAACGTCTGAGGCGCGCACGCCTCACGCGCGCCCC
762	21368	244	CATAACGTCTGAGGCGCGCACGCCTCACGCGCGCCCCGCAC
763	21368	251	TCTGAGGCGCGCACGCCTCACGCGCGCCCCGCACGCGCGCC
764	21368	253	TGAGGCGCGCACGCCTCACGCGCGCCCCGCACGCGCGCCCG
765	21368	255	AGGCGCGCACGCCTCACGCGCGCCCCGCACGCGCGCCCGCC
766	21368	260	CGCACGCCTCACGCGCGCCCCGCACGCGCGCCCGCCTCACG
767	21368	264	CGCCTCACGCGCGCCCCGCACGCGCGCCCGCCTCACGCGCG
768	21368	266	CCTCACGCGCGCCCCGCACGCGCGCCCGCCTCACGCGCGCC
769	21368	268	TCACGCGCGCCCCGCACGCGCGCCCGCCTCACGCGCGCCCC
770	21368	272	GCGCGCCCCGCACGCGCGCCCGCCTCACGCGCGCCCCGCAC
771	21368	279	CCGCACGCGCGCCCGCCTCACGCGCGCCCCGCACGCACATG
772	21368	281	GCACGCGCGCCCGCCTCACGCGCGCCCCGCACGCACATGAC
773	21368	283	ACGCGCGCCCGCCTCACGCGCGCCCCGCACGCACATGACGG
774	21368	288	CGCCCGCCTCACGCGCGCCCCGCACGCACATGACGGCTTGG
775	21368	292	CGCCTCACGCGCGCCCCGCACGCACATGACGGCTTGGCTTA
776	21368	301	CGCGCCCCGCACGCACATGACGGCTTGGCTTACCTGTAATG
777	21368	326	TGGCTTACCTGTAATGGGTGCGCTTCGCTTTGCGTTCCTCG
778	21368	331	TACCTGTAATGGGTGCGCTTCGCTTTGCGTTCCTCGCTTGG
779	21368	338	AATGGGTGCGCTTCGCTTTGCGTTCCTCGCTTGGCCTTGCG
780	21368	345	GCGCTTCGCTTTGCGTTCCTCGCTTGGCCTTGCGTTCCTAG
781	21368	357	GCGTTCCTCGCTTGGCCTTGCGTTCCTAGCTTGGCTTGGCG
782	21368	376	GCGTTCCTAGCTTGGCTTGGCGTTAGTCGCTTTGCCTGGTG
783	21368	383	TAGCTTGGCTTGGCGTTAGTCGCTTTGCCTGGTGTTTCTTG
784	21368	426	TGGATTGGCGTTTTCTCCCTCGTCGAGTTCCAGGCGCTCTA
785	21523	150	CAGTGTCGCTGTGGGTGCCACGCAGGTAAGGAGAGAAGAGC
786	21523	200	GGAAAAGGCGCTTGGGGGTGCGGGCATGACTCGTGCTCTGT

787	21523	236	TCTGTGGATGTGGCAGAAAGCGCCAGAAGGCGGAGAGGCAA

II. **Negative dataset contains 1639 samples**

Segment#	ID	Site	Sequence
1	381	347	TGTTATATAATATGTATGCGCTTGTTACCGTTTTATTTTAA
2	381	116	GTTTGATTAACGAATCAGAGCAAGATCTGGATCTAGAACTC
3	381	201	AGGATTCGAAGTTCACAATTCTAGAAGATATGATGCTTCTC
4	381	76	CTGAGGAATGATGAAATCATCAGCTCGGAGCTTGAGATTGG
5	381	355	AATATGTATGCGCTTGTTACCGTTTTATTTTAATGGAGGCT
6	381	148	CTAGAACTCCGTTTGGGTTTCGCTTAATTAGATGGTAATAA
7	381	81	GAATGATGAAATCATCAGCTCGGAGCTTGAGATTGGTTTGA
8	381	79	AGGAATGATGAAATCATCAGCTCGGAGCTTGAGATTGGTTT
9	381	253	AGTTTCATCCATATGAAATTCTCTAAGCTTGCTATTTAGTA
10	381	255	TTTCATCCATATGAAATTCTCTAAGCTTGCTATTTAGTAGA
11	381	86	ATGAAATCATCAGCTCGGAGCTTGAGATTGGTTTGATTAAC
12	381	106	CTTGAGATTGGTTTGATTAACGAATCAGAGCAAGATCTGGA
13	776	217	TAAAAACCTGTGCAAGGGGACAGGCGGTCACACGGACGTAA
14	776	248	ACGGACGTAAGCCTCACTTCCTACCCTCGGCATATACGGCC
15	776	1	GCCTCACTTCCTACCCTCGGCATATACGGCCTGGTCCGGTC
16	776	46	CTACCTGGGCCAGGGCAGTCCTCTCCTTCTTTGGTCAGTGC
17	776	10	CCTACCCTCGGCATATACGGCCTGGTCCGGTCCTAGCTACC
18	776	203	CTCCCGGGACTATATAAAAACCTGTGCAAGGGGACAGGCGG
19	776	247	CACGGACGTAAGCCTCACTTCCTACCCTCGGCATATACGGC
20	776	204	TCCCGGGACTATATAAAAACCTGTGCAAGGGGACAGGCGGT
21	776	154	ATATGGCTTGGGAAGGGCAGCAACATTCTTCGGGGCGGTGT
22	776	61	CAGTCCTCTCCTTCTTTGGTCAGTGCAGGAGACCCGGGCGG
23	776	73	TCTTTGGTCAGTGCAGGAGACCCGGGCGGGACCCAGGCTGA
24	776	36	CCGGTCCTAGCTACCTGGGCCAGGGCAGTCCTCTCCTTCTT
25	776	97	GGCGGGACCCAGGCTGAGAACCAGCCGAAGGAAGGGACTCT
26	776	240	GCGGTCACACGGACGTAAGCCTCACTTCCTACCCTCGGCAT
27	776	11	CTACCCTCGGCATATACGGCCTGGTCCGGTCCTAGCTACCT
28	776	253	CGTAAGCCTCACTTCCTACCCTCGGCATATACGGCCTGGTC
29	776	209	GGACTATATAAAAACCTGTGCAAGGGGACAGGCGGTCACAC
30	776	85	GCAGGAGACCCGGGCGGGACCCAGGCTGAGAACCAGCCGAA
31	776	84	TGCAGGAGACCCGGGCGGGACCCAGGCTGAGAACCAGCCGA
32	776	29	GCCTGGTCCGGTCCTAGCTACCTGGGCCAGGGCAGTCCTCT
33	861	349	TCCCCGGCCCCCGGGCCTCCCCGCGCCGCTCGCCTCTCTCC
34	861	32	GCAGGATTCGGGACCAAGCGCAAAGGCAGGTCTCGACCAAG
35	861	419	TCCCGGAGCCCAGCCCGGCGCGCGGAGCCCGCTCACCGAGT
36	861	480	GCCCCGCCGCAGCAACAGAACTCTCCCACAGCAGCACTCCT
37	861	333	CTGCGGGCCCCGAGATTCCCCGGCCCCCGGGCCTCCCCGCG
38	861	450	CTCACCGAGTTTCCCACAGTCAACGTGCAGGCCCCGCCGCA
39	861	111	TATCCTCAGAAGCCAGGGGTCCTTACAGTAGCCCTCGCGGG
40	861	142	CCCTCGCGGGCCCCAGCGCCCACCCAGAGCGAGGGGCCTCC
41	861	400	GGCCGGGGAGCCTCCGCGGTCCGGAGCCCAGCCCGGCGCG
42	861	103	AGACGCAGTATCCTCAGAAGCCAGGGGTCCTTACAGTAGCC
43	861	413	CCGCGGTCCCGGAGCCCAGCCCGGCGCGCGGAGCCCGCTCA
44	861	183	GACTTGGCCCCGGCCTGGCACACCGTCCCGGAGGCCCATCC
45	861	274	CCAGCTTCTAGAGGCGCCGCCCGGTTTCCCCTCGCCCCTGC
46	861	63	CTCGACCAAGCACCTCAAGGCCCCATACGGAGAAAGTTCTA
47	861	316	TCTCACACGCAGGTAGGCTGCGGGCCCCGAGATTCCCCGGC
48	861	30	

49	861	366	GGGCAGGATTCGGGACCAAGCGCAAAGGCAGGTCTCGACCA
50	861	81	TCCCCGCGCCGCTCGCCTCTCTCCCTCGTCGATGGGCCGGG
51	861	95	GGCCCCATACGGAGAAAGTTCTAGACGCAGTATCCTCAGAA
52	861	238	AAAGTTCTAGACGCAGTATCCTCAGAAGCCAGGGGTCCTTA
53	861	412	GGTGGGGCTTCACCGCCCCCGCCCCGCCCCCGAGACCAGC
54	861	345	TCCGCGGTCCCGGAGCCCAGCCCGGCGCGCGGAGCCCGCTC
55	861	140	AGATTCCCCGGCCCCCGGGCCTCCCCGCGCCGCTCGCCTCT
56	861	466	AGCCCTCGCGGGCCCCAGCGCCCACCCAGAGCGAGGGGCCT
57	861	248	CAGTCAACGTGCAGGCCCCGCCGCAGCAACAGAACTCTCCC
58	861	375	CACCGCCCCCCGCCCCGCCCCCGAGACCAGCTTCTAGAGGC
59	861	414	CGCTCGCCTCTCTCCCTCGTCGATGGGCCGGGGAGCCTCCG
60	861	199	CGCGGTCCCGGAGCCCAGCCCGGCGCGCGGAGCCCGCTCAC
61	861	382	GGCACACCGTCCCGGAGGCCCATCCCGGCCGCTCCTCCAGG
62	861	281	CTCTCTCCCTCGTCGATGGGCCGGGGAGCCTCCGCGGTCCC
63	861	185	CTAGAGGCGCCGCCCGGTTTCCCCTCGCCCCTGCCTCTCAC
64	861	288	CTTGGCCCCGGCCTGGCACACCGTCCCGGAGGCCCATCCCG
65	861	299	CGCCGCCCGGTTTCCCCTCGCCCCTGCCTCTCACACGCAGG
66	861	135	TTCCCCTCGCCCCTGCCTCTCACACGCAGGTAGGCTGCGGG
67	861	283	ACAGTAGCCCTCGCGGGCCCCAGCGCCCACCCAGAGCGAGG
68	861	202	AGAGGCGCCGCCCGGTTTCCCCTCGCCCCTGCCTCTCACAC
69	861	290	ACACCGTCCCGGAGGCCCATCCCGGCCGCTCCTCCAGGTGG
70	861	237	CCGCCCGGTTTCCCCTCGCCCTGCCTCTCACACGCAGGTA
71	861	336	AGGTGGGGCTTCACCGCCCCCGCCCCCGCCCCCGAGACCAG
72	861	396	CGGGCCCCGAGATTCCCCGGCCCCCGGGCCTCCCCGCGCCG
73	861	198	GATGGGCCGGGGAGCCTCCGCGGTCCCGGAGCCCAGCCCGG
74	861	4	TGGCACACCGTCCCGGAGGCCCATCCCGGCCGCTCCTCCAG
75	861	20	AACTCTCCCACAGCAGCACTCCTAGAGGGCAGGATTCGGGA
76	861	207	CACTCCTAGAGGGCAGGATTCGGGACCAAGCGCAAAGGCAG
77	861	268	GTCCCGGAGGCCCATCCCGGCCGCTCCTCCAGGTGGGGCTT
78	861	236	CCGAGACCAGCTTCTAGAGGCGCCGCCCGGTTTCCCCTCGC
79	861	321	CAGGTGGGGCTTCACCGCCCCCGCCCCCGCCCCCGAGACCA
80	861	338	CACGCAGGTAGGCTGCGGGCCCGAGATTCCCCGGCCCCCG
81	861	322	GGCCCCGAGATTCCCCGGCCCCCGGGCCTCCCCGCGCCGCT
82	861	64	ACGCAGGTAGGCTGCGGGCCCCGAGATTCCCCGGCCCCCGG
83	861	144	TCGACCAAGCACCTCAAGGCCCCATACGGAGAAAGTTCTAG
84	861	408	CTCGCGGGCCCCAGCGCCCACCCAGAGCGAGGGGCCTCCGA
85	861	294	AGCCTCCGCGGTCCCGGAGCCCAGCCCGGCGCGCGGAGCCC
86	861	234	CCGGTTTCCCCTCGCCCCTGCCTCTCACACGCAGGTAGGCT
87	861	49	TCCAGGTGGGGCTTCACCGCCCCCGCCCCGCCCCCGAGAC
88	861	161	GCGCAAAGGCAGGTCTCGACCAAGCACCTCAAGGCCCCATA
89	861	230	CCACCCAGAGCGAGGGGCCTCCGACTTGGCCCCGGCCTGGC
90	861	457	CTCCTCCAGGTGGGGCTTCACCGCCCCCCGCCCCGCCCCCG
91	861	48	AGTTTCCCACAGTCAACGTGCAGGCCCCGCCGCAGCAACAG
92	861	486	AGCGCAAAGGCAGGTCTCGACCAAGCACCTCAAGGCCCCAT
93	861	332	CCGCAGCAACAGAACTCTCCCACAGCAGCACTCCTAGAGGG
94	861	241	GCTGCGGGCCCCGAGATTCCCCGGCCCCCGGGCCTCCCCGC
95	861	215	GGGGCTTCACCGCCCCCCGCCCCGCCCCCGAGACCAGCTTC
96	861	5	GGCCCATCCCGGCCGCTCCTCCAGGTGGGGCTTCACCGCCC
97	861	442	ACTCTCCCACAGCAGCACTCCTAGAGGGCAGGATTCGGGAC
98	861	301	GGAGCCCGCTCACCGAGTTTCCCACAGTCAACGTGCAGGCC
99	861	228	CCCCTCGCCCCTGCCTCTCACACGCAGGTAGGCTGCGGGCC
100	862	135	CGCTCCTCCAGGTGGGGCTTCACCGCCCCCCGCCCCGCCCC
101	862	161	GAACTGTAACATAGATCTTCCTGCCTCTCGGGGGCATTCTG

102	862	199	CTCGGGGGCATTCTGAAGACCAGAAGGCAGGGGACACAGGA
103	862	18	GGAAAAGGAACTGAGCAAGTCATGACGAAGCAGAACCCTGG
104	862	214	ACTGACAAGAGTCACCAAATCAGCAACAACGTGACCCAGTG
105	862	465	CAAGTCATGACGAAGCAGAACCCTGGGAAGGGTTGGCAATA
106	862	305	GGAAGGTGGCAACTGCAGTCCACTGCAGACTGACAAGAGTC
107	862	189	TCGGGTCCCAATTCCAGGGTCCACCAGCTGCACACACCAGT
108	862	328	AGGGGACACAGGAAAAGGAACTGAGCAAGTCATGACGAAGC
109	862	66	CCAGCTGCACACACCAGTCCCAGGGCTAGGGCACAGGCACC
110	862	32	TCTTCCGAATCCCACGCTACCATCCCAGCACCCCGTGGACC
111	862	273	CCAAATCAGCAACAACGTGACCCAGTGGTGCAAGTCTTCCG
112	862	309	GCCCCCACCCCAGACAGGTTCTACCTGTTCCATCGGGTCCC
113	862	13	GTCCCAATTCCAGGGTCCACCAGCTGCACACACCAGTCCCA
114	862	386	TGCAGACTGACAAGAGTCACCAAATCAGCAACAACGTGACC
115	862	242	TGCTTGCTCCATAGGTCATACCTTTTAGGAGAAATGAAGGG
116	862	85	AGGGTTGGCAATAACAAACAACAACCCCTGCCGCCCCCACCC
117	862	382	CCATCCCAGCACCCCGTGGACCAAGAGTGGGTGGGAGGGCA
118	862	256	CGCCTGCTTGCTCCATAGGTCATACCTTTTAGGAGAAATGA
119	862	355	CAAACACAACCCCTGCCGCCCCCACCCCAGACAGGTTCTAC
120	862	460	AGGGCACAGGCACCCTCCTGCCTAACTCGCCTGCTTGCTCC
121	862	74	ATAGAGGAAGGTGGCAACTGCAGTCCACTGCAGACTGACAA
122	862	71	ATCCCACGCTACCATCCCAGCACCCCGTGGACCAAGAGTGG
123	862	424	CGAATCCCACGCTACCATCCCAGCACCCCGTGGACCAAGAG
124	862	299	GGGAATGCAGAGAAGCAACACAACAAAGACCTCCGCATAGA
125	862	131	GTTCCATCGGGTCCCAATTCCAGGGTCCACCAGCTGCACAC
126	862	339	TCCAGAACTGTAACATAGATCTTCCTGCCTCTCGGGGGCAT
127	862	194	CACCAGTCCCAGGGCTAGGGCACAGGCACCCTCCTGCCTAA
128	862	124	ACACAGGAAAAGGAACTGAGCAAGTCATGACGAAGCAGAAC
129	862	76	CATCATTTCCAGAACTGTAACATAGATCTTCCTGCCTCTCG
130	862	21	CCCACGCTACCATCCCAGCACCCGTGGACCAAGAGTGGGT
131	862	258	GACAAGAGTCACCAAATCAGCAACAACGTGACCCAGTGGTG
132	862	236	AACACAACCCCTGCCGCCCCCACCCCAGACAGGTTCTACCT
133	862	245	CTGGGAAGGGTTGGCAATAACAAACACAACCCCTGCCGCCC
134	862	298	GTTGGCAATAACAAACACAACCCCTGCCGCCCCCACCCCAG
135	862	293	TGTTCCATCGGGTCCCAATTCCAGGGTCCACCAGCTGCACA
136	862	255	CTACCTGTTCCATCGGGTCCCAATTCCAGGGTCCACCAGCT
137	862	177	ACAAACACAACCCCTGCCGCCCCCACCCCAGACAGGTTCTA
138	862	341	AGACCAGAAGGCAGGGGACACAGGAAAAGGAACTGAGCAAG
139	862	276	CCAGTCCCAGGGCTAGGGCACAGGCACCCTCCTGCCTAACT
140	863	30	CCCACCCCAGACAGGTTCTACCTGTTCCATCGGGTCCCAAT
141	863	332	CAACACAACAAAGACCTCCGCATAGAGGAAGGTGGCAACTG
142	863	251	TTCCGTTCGCTGATCAATTACCTGCCCCCTCCAGCACGTGT
143	863	264	CAAAGTCTCTGGTGCGCTGGCGGAAGCAGGGCTCCACTCGG
144	863	215	GCGCTGGCGGAAGCAGGGCTCCACTCGGCAGGGCCTCTTGG
145	863	223	CCGCCACTCTCCACCCTGACCCCCTGCACTTTGCTTCAAAG
146	863	209	CTCCACCCTGACCCCCTGCACTTTGCTTCAAAGTCTCTGGT
147	863	90	CTGGGGCCGCCACTCTCCACCCTGACCCCCTGCACTTTGCT
148	863	113	CCTGTTGCTAGAAGGTTTCCCACAGGAAGATGTGAGCTTGT
149	863	2	AGGAAGATGTGAGCTTGTTTCCTGGCAGGGCACAAAAGGTA
150	863	13	GTGCCAGGGCACCAAGAGGGCAGAGAAGCAACACAACAAAG
151	863	464	CCAAGAGGGCAGAGAAGCAACACAACAAAGACCTCCGCATA
152	863	189	GAAGAGCAGTGCCAGGGCACCAAGAGGGCAGAGAAGCAACA
153	863	456	AGTTCAGTTACCCTGCGAGGCTGGGGCCGCCACTCTCCACC
154	863	106	TTCTTCGGGAAGAGCAGTGCCAGGGCACCAAGAGGGCAGAG

155	863	214	TTCCCACAGGAAGATGTGAG**C**TTGTTTCCTGGCAGGGCACA
156	863	216	GCCGCCACTCTCCACCCTGA**C**CCCCTGCACTTTGCTTCAAA
157	863	77	CGCCACTCTCCACCCTGACC**C**CCTGCACTTTGCTTCAAAGT
158	863	173	ACTGCAGACTCATCCTGTTG**C**TAGAAGGTTTCCCACAGGAA
159	863	231	GCAGCCAAGAACATCCAGTT**C**AGTTACCCTGCGAGGCTGGG
160	863	180	TGACCCCCTGCACTTTGCTT**C**AAAGTCTCTGGTGCGCTGGC
161	863	461	AGAACATCCAGTTCAGTTAC**C**CTGCGAGGCTGGGGCCGCCA
162	863	319	CGGGAAGAGCAGTGCCAGGG**C**ACCAAGAGGGCAGAGAAGCA
163	863	24	AGGCCCCACAAACTTCCGTT**C**GCTGATCAATTACCTGCCCC
164	863	118	GAGAAGCAACACAACAAAGA**C**CTCCGCATAGAGGAAGGTGG
165	863	28	GATGTGAGCTTGTTTCCTGG**C**AGGGCACAAAAGGTACGGGA
166	863	196	AGCAACACAACAAAGACCTC**C**GCATAGAGGAAGGTGGCAAC
167	863	289	TTACCCTGCGAGGCTGGGGC**C**GCCACTCTCCACCCTGACCC
168	875	7	CGGCAGGGCCTCTTGGCCAG**C**AGCGTTCACAGGCCCCACAA
169	875	345	AAAGGCAGGTCTCGCGTTCA**C**AGGCCCCACAAACTTCCGTT
170	875	192	CACCGTCCCCACGGCGCCCG**C**GGAGAGAAACCGGCACCTCC
171	875	52	CCAAGAGGAGGACGCCTCGG**C**ACCCATCGGGCGCTCCCTTC
172	875	227	GGTCAATTACCTGCCCCCTC**C**AGCACGTGTGTCAACACGTC
173	875	315	CCCTTCCCCGCCAGGCAGAA**C**TCAGCCGCAGAGGCGGGCGC
174	875	127	AGTCCAAGCGCTGCCGACGC**C**CCCGCCTCCCACCGTCCCCA
175	875	257	AAGCCCGAGATTTCCGACGC**C**CGTTTAACTGAAAGGCGTTC
176	875	128	GAGGCGGGCGCTCTGCGGGC**C**CAAATCCCCGCTACCAGGCA
177	875	336	AGCCCGAGATTTCCGACGCC**C**GTTTAACTGAAAGGCGTTCT
178	875	112	CCCGCCTCCCACCGTCCCCA**C**GGCGCCCGCGGAGAGAAACC
179	875	396	GATCCCTGCCCCAGGAAGCC**C**GAGATTTCCGACGCCCGTTT
180	875	341	CAGCGGCCTTCCGCCCGGGG**C**CGCTTCGCCTCCGGTGGGCT
181	875	268	CTCCCACCGTCCCCACGGCG**C**CCGCGGAGAGAAACCGGCAC
182	875	266	TCTGCGGGCCCAAATCCCCG**C**TACCAGGCAGGCCCAAGGCC
183	875	432	GCTCTGCGGGCCCAAATCCC**C**GCTACCAGGCAGGCCCAAGG
184	875	390	GGGCTAGAGGCCCGCAAGAG**C**GACTCCTAGAGGGCAGGATT
185	875	78	AGGATCCAGCGGCCTTCCGC**C**CGGGGCCGCTTCGCCTCCGG
186	875	170	GTGTGTCAACACGTCCAGAG**C**GGCCTCTCCCGACGATCCCT
187	875	265	CGGGAAGAGCAGTGCCAGGG**C**ACCAAGAGGAGGACGCCTCG
188	875	189	CGCTCTGCGGGCCCAAATCC**C**CGCTACCAGGCAGGCCCAAG
189	875	64	GCACCAAGAGGAGGACGCCT**C**GGCACCCATCGGGCGCTCCC
190	875	199	GCCCCCTCCAGCACGTGTGT**C**AACACGTCCAGAGCGGCCTC
191	875	48	GAGGACGCCTCGGCACCCAT**C**GGGCGCTCCCTTCCCCGCCA
192	875	97	CGCTGGTCAATTACCTGCCC**C**CTCCAGCACGTGTGTCAACA
193	875	356	GCGGCCTCTCCCGACGATCC**C**TGCCCCAGGAAGCCCGAGAT
194	875	365	CGGCGCCCGCGGAGAGAAAC**C**GGCACCTCCCTCGAGGATCC
195	875	69	CGGAGAGAAACCGGCACCTC**C**CTCGAGGATCCAGCGGCCTT
196	875	245	CTCCAGCACGTGTGTCAACA**C**GTCCAGAGCGGCCTCTCCCG
197	875	16	AACTCAGCCGCAGAGGCGGG**C**GCTCTGCGGGCCCAAATCCC
198	875	459	TCTCGCGTTCACAGGCCCCA**C**AAACTTCCGTTCGCTGGTCA
199	875	312	TAGAGGGCAGGATTCGGGAC**C**AAGCGCAAAGGCAGGTCTCG
200	875	5	CCTAGTCCAAGCGCTGCCGA**C**GCCCCCGCCTCCCACCGTCC
201	875	458	GCAAAGGCAGGTCTCGCGTT**C**ACAGGCCCCACAAACTTCCG
202	875	383	CTAGAGGGCAGGATTCGGGA**C**CAAGCGCAAAGGCAGGTCTC
203	875	339	TCCCTCGAGGATCCAGCGGC**C**TTCCGCCCGGGGCCGCTTCG
204	875	324	GCCTCCCACCGTCCCCACGG**C**GCCCGCGGAGAGAAACCGGC
205	875	12	GCTGCCGACGCCCCCGCCTC**C**CACCGTCCCCACGGCGCCCG
206	875	235	CAGGTCTCGCGTTCACAGGC**C**CCACAAACTTCCGTTCGCTG
207	875	415	CGCCAGGCAGAACTCAGCCG**C**AGAGGCGGGCGCTCTGCGGG

208	875	203	GCCGCTTCGCCTCCGGTGGGCTAGAGGCCCGCAAGAGCGAC
209	875	252	ACGCCTCGGCACCCATCGGGCGCTCCCTTCCCCGCCAGGCA
210	875	362	CCGCAGAGGCGGGCGCTCTGCGGGCCCAAATCCCCGCTACC
211	875	476	CCGCGGAGAGAAACCGGCACCTCCCTCGAGGATCCAGCGGC
212	875	103	GACCAAGCGCAAAGGCAGGTCTCGCGTTCACAGGCCCCACA
213	875	320	TCTCCCGACGATCCCTGCCCCAGGAAGCCCGAGATTTCCGA
214	875	218	AAGCGCTGCCGACGCCCCCGCCTCCCACCGTCCCCACGGCG
215	875	368	TCGGGCGCTCCCTTCCCCGCCAGGCAGAACTCAGCCGCAGA
216	875	426	AGAGAAACCGGCACCTCCCTCGAGGATCCAGCGGCCTTCCG
217	875	72	TCCGGTGGGCTAGAGGCCCGCAAGAGCGACTCCTAGAGGGC
218	875	88	CAGCACGTGTGTCAACACGTCCAGAGCGGCCTCTCCCGACG
219	875	303	ACGTCCAGAGCGGCCTCTCCCGACGATCCCTGCCCCAGGAA
220	875	124	AAGGCCGCACCTAGTCCAAGCGCTGCCGACGCCCCCGCCTC
221	875	214	AGGAAGCCCGAGATTTCCGACGCCCGTTTAACTGAAAGGCG
222	897	28	CCCATCGGGCGCTCCCTTCCCGCCAGGCAGAACTCAGCCG
223	897	205	TTGGCCTTGGGGACATGCGGCCTCACGGCCACTGCAGGGAC
224	897	339	GACGTGTTCAATGGGCGGTACCACGTGGTGCGCAAACTGGG
225	897	243	TGGGCTTGCTTGGGGCCACCCTGATCCCCGCCGTGGGTCCT
226	897	163	GGGCTGGGGCCACTTCTCCACCGTCTGGCTCTGCTGGGACA
227	897	140	CATCTCCCCTGGGCAGGCGGCTACCACCCTGTGAAGATCGG
228	897	346	AGAACCCCCTCCACCCCAATCTACATCTCCCCTGGGCAGGC
229	897	311	GCTTGGGGCCACCCTGATCCCGCCGTGGGTCCTGCCAGTG
230	897	150	GGCGGAGCACTGGCTGGGATCCTGTCCCTGGGCTTGCTTGG
231	897	39	CCACCCCAATCTACATCTCCCTGGGCAGGCGGCTACCACC
232	897	251	GACATGCGGCCTCACGGCCACTGCAGGGACCCAGGGCAGTC
233	897	357	GCCACTTCTCCACCGTCTGGCTCTGCTGGGACATCCAGTGA
234	897	187	CCCTGATCCCCGCCGTGGGTCCTGCCAGTGAGACTTGGCCT
235	897	21	CACCCTGTGAAGATCGGCGACGTGTTCAATGGGCGGTACCA
236	897	169	GTGAGACTTGGCCTTGGGGACATGCGGCCTCACGGCCACTG
237	897	256	CCCTGGGCAGGCGGCTACCACCCTGTGAAGATCGGCGACGT
238	897	317	TTCTCCACCGTCTGGCTCTGCTGGGACATCCAGTGAGTGCC
239	897	316	GCACTGGCTGGGATCCTGTCCCTGGGCTTGCTTGGGGCCAC
240	897	166	AGCACTGGCTGGGATCCTGTCCCTGGGCTTGCTTGGGGCCA
241	897	193	CTCCCCTGGGCAGGCGGCTACCACCCTGTGAAGATCGGCGA
242	897	358	GTGAAGATCGGCGACGTGTTCAATGGGCGGTACCACGTGGT
243	897	29	CCTGATCCCCGCCGTGGGTCCTGCCAGTGAGACTTGGCCTT
244	897	60	TGGCCTTGGGGACATGCGGCCTCACGGCCACTGCAGGGACC
245	897	362	TGCAGGGACCCAGGGCAGTCCTGGGCCCACATGGGCCAGAT
246	897	149	ATCCCCGCCGTGGGTCCTGCCAGTGAGACTTGGCCTTGGGG
247	897	42	TCCACCCCAATCTACATCTCCCCTGGGCAGGCGGCTACCAC
248	897	278	ATGCGGCCTCACGGCCACTGCAGGGACCCAGGGCAGTCCTG
249	897	148	GGGACATCCAGTGAGTGCCTCCTTCGCCTCCGGGGCGGAGC
250	897	12	CTCCACCCCAATCTACATCTCCCCTGGGCAGGCGGCTACCA
251	897	217	GTCCTGCCAGTGAGACTTGGCCTTGGGGACATGCGGCCTCA
252	897	221	GGGCGGTACCACGTGGTGCGCAAACTGGGCTGGGGCCACTT
253	897	49	GGTACCACGTGGTGCGCAAACTGGGCTGGGGCCACTTCTCC
254	897	151	CTCACGGCCACTGCAGGGACCCAGGGCAGTCCTGGGCCCAC
255	897	266	CACCCCAATCTACATCTCCCCTGGGCAGGCGGCTACCACCC
256	897	247	TCTGGCTCTGCTGGGACATCCAGTGAGTGCCTCCTTCGCCT
257	897	31	TGGGGCCACTTCTCCACCGTCTGGCTCTGCTGGGACATCCA
258	897	279	GCCTTGGGGACATGCGGCCTCACGGCCACTGCAGGGACCCA
259	897	50	GGACATCCAGTGAGTGCCTCCTTCGCCTCCGGGGCGGAGCA
260	897	298	TCACGGCCACTGCAGGGACCCAGGGCAGTCCTGGGCCCACA

261	906	119	CCTTCGCCTCCGGGGCGGAGCACTGGCTGGGATCCTGTCCC
262	906	49	TGCGTGGCCGGGATGAGCGCCAGCACGGGCGGTGGTGGGGA
263	906	116	AAGGCTATAAATTCGCAGGCCGCGGCCGGGCCCCACAGGAG
264	906	222	GGCTGCGTGGCCGGGATGAGCGCCAGCACGGGCGGTGGTGG
265	906	197	GCGTCTCTCATGCCCACTGCCACTCACCCCACCCGCAGCTC
266	906	77	TCGGCTGGGGCACCCGGAGCCCCTGGCGTCTCTCATGCCCA
267	906	310	GGCCCCACAGGAGCAGCCGCCCGGGGCACCGGAGCTGCGGG
268	906	176	CCACACCGGTGCCTCAGAAGCTGCAGGGCCTTCTGGGCTCC
269	906	322	GGCAGTAGCAGCAGGTAGGGCTCGGCTGGGGCACCCGGAGC
270	906	221	CTCAGAAGCTGCAGGGCCTTCTGGGCTCCGACGTCGAGGAA
271	906	273	GGCGTCTCTCATGCCCACTGCCACTCACCCCACCCGCAGCT
272	906	260	TGCGGGCCCGAGTCCTCGGGCTCCGAACTAGCCCTGGCCAC
273	906	285	CTCACAGGCCTCCTGCGGGCCCGAGTCCTCGGGCTCCGAAC
274	906	242	TCCTCGGGCTCCGAACTAGCCCTGGCCACACCGGTGCCTCA
275	906	229	CACTCACCCCACCCGCAGCTCACAGGCCTCCTGCGGGCCCG
276	906	76	TCATGCCCACTGCCACTCACCCCACCCGCAGCTCACAGGCC
277	906	44	GGGCCCCACAGGAGCAGCCGCCCGGGGCACCGGAGCTGCGG
278	906	42	CGGCCAAGGCTATAAATTCGCAGGCCGCGGCCGGGCCCCAC
279	906	259	GCCGGCCAAGGCTATAAATTCGCAGGCCGCGGCCGGGCCCC
280	906	231	GCTCACAGGCCTCCTGCGGGCCCGAGTCCTCGGGCTCCGAA
281	906	164	ATGCCCACTGCCACTCACCCCACCCGCAGCTCACAGGCCTC
282	906	302	GGCGGCAGCGGCGGCAGTAGCAGCAGGTAGGGCTCGGCTGG
283	906	181	AGCCCTGGCCACACCGGTGCCTCAGAAGCTGCAGGGCCTTC
284	906	190	TAGCAGCAGGTAGGGCTCGGCTGGGGCACCCGGAGCCCCTG
285	906	329	GTAGGGCTCGGCTGGGGCACCCGGAGCCCCTGGCGTCTCTC
286	906	228	GCTGCAGGGCCTTCTGGGCTCCGACGTCGAGGAACAGGAAG
287	906	275	CTCATGCCCACTGCCACTCACCCCACCCGCAGCTCACAGGC
288	906	33	CGGGCCCGAGTCCTCGGGCTCCGAACTAGCCCTGGCCACAC
289	906	64	AGATCAGCGGCCGGCCAAGGCTATAAATTCGCAGGCCGCGG
290	906	304	CAGGCCGCGGCCGGGCCCCACAGGAGCAGCCGCCCGGGGCA
291	906	248	CCCTGGCCACACCGGTGCCTCAGAAGCTGCAGGGCCTTCTG
292	906	24	CCCCACCCGCAGCTCACAGGCCTCCTGCGGGCCCGAGTCCT
293	906	233	AGGCGGGTGAGATCAGCGGCCGGCCAAGGCTATAAATTCGC
294	906	187	GCCCACTGCCACTCACCCCACCCGCAGCTCACAGGCCTCCT
295	906	366	CAGGTAGGGCTCGGCTGGGGCACCCGGAGCCCCTGGCGTCT
296	906	118	GAAGACCCCAAAGACTACTGCAAGGGTGAGACTTTAAAGGC
297	906	295	CTGCGTGGCCGGGATGAGCGCCAGCACGGGCGGTGGTGGGG
298	906	59	CCGAACTAGCCCTGGCCACACCGGTGCCTCAGAAGCTGCAG
299	906	73	ATTCGCAGGCCGCGGCCGGGCCCCACAGGAGCAGCCGCCCG
300	906	276	GCCGGGCCCCACAGGAGCAGCCGCCCGGGGCACCGGAGCTG
301	906	216	GGGCCCGAGTCCTCGGGCTCCGAACTAGCCCTGGCCACACC
302	957	119	CCCCTGGCGTCTCTCATGCCCACTGCCACTCACCCCACCCG
303	957	147	ATGGGCCACTCTGTCCCTCCCCCTGCCCTCCCCTCCCCTCG
304	957	97	TCCCCTCCCCTCGCGGCCCTCCCGCCCCTCCCCTCTGGCCC
305	957	130	CACACGAACACACACACACACAATGGGCCACTCTGTCCCTC
306	957	40	TGTCCCTCCCCCTGCCCTCCCCTCCCCTCGCGGCCCTCCCG
307	957	368	GCCCCCACGGGTCGGGCACACAAACGGGACATTGTGTGGGC
308	957	268	GTTGCTGGAAGCCGAAGTGACCGGTGATGGGTGGGAAACA
309	957	18	CATGCACGTCCCATGCCCGCCCGCCCGCCCGCCCGCCCGGG
310	957	156	CAGGAGGTAAGGAGCCCTGGCTGCCCCCACGGGTCGGGCAC
311	957	154	CTCGCGGCCCTCCCGCCCCTCCCCTCTGGCCCGGGCCTGGA
312	957	159	CCCTCGCGGCCCTCCCGCCCCTCCCCTCTGGCCCGGGCCTG
313	957	118	GCGGCCCTCCCGCCCCTCCCCTCTGGCCCGGGCCTGGAACG

314	957	44	AATGGGCCACTCTGTCCCTC**C**CCCTGCCCTCCCCTCCCCTC
315	957	136	CCACGGGTCGGGCACACAAA**C**GGGACATTGTGTGGGCCCCC
316	957	219	TCCCCCTGCCCTCCCCTCCC**C**TCGCGGCCCTCCCGCCCCTC
317	957	120	TTGGGAAGCCTGCGGCCTGG**C**CGCCTGGCGCCGCCACTGG
318	957	263	TGGGCCACTCTGTCCCTCCC**C**TGCCCTCCCCTCCCCTCGC
319	957	75	CACTGCATGCACGTCCCATG**C**CCGCCCGCCCGCCCGCCCGC
320	957	117	GTGGGCCCCCCACGTGTGCA**C**ACACACGAACACACACACAC
321	957	215	CAATGGGCCACTCTGTCCCT**C**CCCCTGCCCTCCCCTCCCCT
322	957	245	AGGCTTGGGAAGCCTGCGGC**C**TGGCCCGCCTGGCGCCGCCA
323	957	109	TGGCGCCGCCACTGGACACA**C**TGCATGCACGTCCCATGCCC
324	957	91	CACACACACAATGGGCCACT**C**TGTCCCTCCCCCTGCCCTCC
325	957	294	TGCACACACACGAACACACA**C**ACACACAATGGGCCACTCTG
326	957	79	GCCCGCCCGCCCGGGCCCAG**C**TTAGCAACAGCGATGGGCAC
327	957	312	GCCCCCCACGTGTGCACACA**C**ACGAACACACACACACACAA
328	957	283	AGCTTAGCAACAGCGATGGG**C**ACGCGTGTGTCCTGTGACTA
329	957	194	CCCGCCCGCCCGCCCGCCCG**C**CCGGGCCCAGCTTAGCAACA
330	957	114	GGAACGCTGGGTGCCCGAGC**C**AGGCTTGGGAAGCCTGCGGC
331	957	359	ACACAATGGGCCACTCTGTC**C**TCCCCCTGCCCTCCCCTCC
332	957	193	AGCACTGGGGTTGCTGGAAG**C**GAAGTGACCCGGTGATGGG
333	957	369	TGGAACGCTGGGTGCCCGAG**C**CAGGCTTGGGAAGCCTGCGG
334	957	113	TTGCTGGAAGCCGAAGTGAC**C**CGGTGATGGGTGGGAAACAG
335	957	77	CACACAATGGGCCACTCTGT**C**CCTCCCCCTGCCCTCCCCTC
336	957	63	GGGCCCCCCACGTGTGCACA**C**ACACGAACACACACACACAC
337	957	241	ACGGGACATTGTGTGGGCCC**C**CCACGTGTGCACACACACGA
338	957	236	CGCCTGGCGCCGCCACTGGA**C**ACACTGCATGCACGTCCCAT
339	957	24	TGGCCCGCCTGGCGCCGCCA**C**TGGACACACTGCATGCACGT
340	1000	177	GTAAGGAGCCCTGGCTGCCC**C**CACGGGTCGGGCACACAAAC
341	1000	70	GGCCCGGCCGTGCGGCCCGC**C**GGGGCCATGGCGAAGAAGAG
342	1000	47	GGCCCGGCCGCCCCCCGGCC**C**CGGCCGGCCCGCGCCCTCG
343	1000	165	GCCCGCCCGCCGCCCCGTCC**C**CGGCCCGGCCGCCCCCCGG
344	1000	48	CGCCGCGACCCCGGCCCGGC**C**GTGCGGCCCGCCGGGGCCAT
345	1000	160	CCCGCCCGCCGCCCCGTCCC**C**GGCCCGGCCGCCCCCCGGC
346	1000	366	TGAGGCGCCGCGACCCCGGC**C**CGGCCGTGCGGCCCGCCGGG
347	1000	264	TGGACGCGCCAGGTGGACTT**C**ATCATGTCGTGCGTGGGCTT
348	1000	42	CCCCTCATCGCGCCCGGGCC**C**GACGGGGCCCCGGCCAAGGG
349	1000	273	CCGCCGCCCGCCCGCCGCCC**C**GTCCCCCGGCCCGGCCGCCC
350	1000	405	GCGCCCGGGCCCGACGGGGC**C**CCGGCCAAGGGCGACGGCCC
351	1000	69	TTCGCCGTGGGCTTGGGCAA**C**GTGTGGCGCGCCGCCCGCGC
352	1000	402	CGGCCCGGCCGCCCCCCGGC**C**CCCGGCCGGCCCGCGCCCTC
353	1000	326	GGCTTCGCCGTGGGCTTGGG**C**AACGTGTGGCGCGCCGCCCG
354	1000	8	GACACCCGGCGGCCGCCTGG**C**CGTGCCGCCGCGCGAGACCT
355	1000	34	GGCAACGTGTGGCGCGCCGC**C**CGCGCCCCGCACCCCGCCGC
356	1000	231	CCCGCACCCCGCCGCCCGCC**C**GCCGCCCCGTCCCCCGGCCC
357	1000	127	ATCTATAGCGTGTCCGGCGA**C**GAGAAGAAGGGCCCCCTCAT
358	1000	354	CGCCGGTGCCCCCCGCCTGA**C**CGCCGCCCCCCGTGAGGCGC
359	1000	95	CCGCGCGAGACCTGGACGCG**C**AGGTGGACTTCATCATGTC
360	1000	274	CCGGCCCGCGCCCTCGGGGC**C**CTCCCCGGTGCCGCCGGTGC
361	1000	138	CGCCCGGGCCCGACGGGGCC**C**GGCCAAGGGCGACGGCCCC
362	1000	106	CCCGCCTGACCGCCGCCCCC**C**GTGAGGCGCCGCGACCCCGG
363	1000	355	CCTCGGGGCCCTCCCCGGTG**C**CGCCGGTGCCCCCCGCCTGA
364	1000	64	CGCGCGAGACCTGGACGCGC**C**AGGTGGACTTCATCATGTCG
365	1000	133	TCCCCCGGCCCGGCCGCCCC**C**GGCCCCCGGCCGGCCCGCG
366	1000	115	TGCCCCCCGCCTGACCGCCG**C**CCCCCGTGAGGCGCCGCGAC

367	1000	63	CCTCCCCGGTGCCGCCGGTGCCCCCCGCCTGACCGCCGCCC
368	1000	387	GTCCCCCGGCCCGGCCGCCCCCGGCCCCCGGCCGGCCCGC
369	1000	254	ATCATGTCGTGCGTGGGCTTCGCCGTGGGCTTGGGCAACGT
370	1000	37	GAAGAAGGGCCCCCTCATCGCGCCCGGGCCCGACGGGGCCC
371	1000	301	GCACCCCGCCGCCCGCCCGCCGCCCCGTCCCCCGGCCCGGC
372	1000	292	AGGGCGACGGCCCCGTGGGCCTGGGGACACCCGGCGGCCGC
373	1000	120	CCCCGGCCAAGGGCGACGGCCCCGTGGGCCTGGGGACACCC
374	1000	288	CCGGTGCCGCCGGTGCCCCCCGCCTGACCGCCGCCCCCCGT
375	1000	147	GGGGCCCCGGCCAAGGGCGACGGCCCCGTGGGCCTGGGGAC
376	1000	7	CCGCCGCCCCCCGTGAGGCGCCGCGACCCCGGCCCGGCCGT
377	1000	62	GGGCAACGTGTGGCGCGCCGCCGCGCCCCGCACCCCGCCG
378	1000	117	CGTCCCCCGGCCCGGCCGCCCCCCGGCCCCCGGCCGGCCCG
379	1000	71	TCCCCGGTGCCGCCGGTGCCCCCCGCCTGACCGCCGCCCCC
380	1000	224	GCCCGGCCGCCCCCCGGCCCCCGGCCGGCCCGCGCCCTCGG
381	1000	61	GAACGGCATCTATAGCGTGTCGGCGACGAGAAGAAGGGCC
382	1000	339	CCGTCCCCCGGCCCGGCCGCCCCCCGGCCCCCGGCCGGCCC
383	1000	33	CGCCTGGCCGTGCCGCCGCGCGAGACCTGGACGCGCCAGGT
384	1000	26	CCCCGCACCCCGCCGCCCCGCCGCCGCCCCGTCCCCCGGCC
385	1000	94	GCCCGCGCCCCGCACCCCGCCGCCCGCCCGCCGCCCCGTCC
386	1000	319	GCCGGCCCGCGCCCTCGGGGCCCTCCCCGGTGCCGCCGGTG
387	1000	25	GCCTGGGGACACCCGGCGGCCGCCTGGCCGTGCCGCCGCGC
388	1017	376	CGCCCGCGCCCCGCACCCCGCCGCCCGCCCGCCGCCCCGTC
389	1017	73	GTGCCGCCGCGCGCGATAGACCTGTCAAGTGCTTGGTGGAC
390	1017	346	CCGCTCTCCCGCCGCCCCGTCCCCCGGCCCGGCCGCCCCCC
391	1017	48	GGCCTGGGGACACCCGGCGGCGGCCTGGCCGTGCCGCCGCG
392	1017	76	TGCGCCGCCTGTGACCCGCACCCCGCCGCTCTCCCGCCGCC
393	1017	92	CTCTCCCGCCGCCCCGTCCCCCGGCCCGGCCGCCCCCCGGC
394	1017	256	TCCCCCGGCCCGGCCGCCCCCCGGCCCCCGGCCGGTCCGCG
395	1017	126	GGCATATGTAGCGTGTCCGGCGACCAGAAGAAGGGTCCCCT
396	1017	155	GTCCGCGCCCTCGGGGCCCTCCCCGGTGCCGCCGGTGCCCC
397	1017	150	CGCCGGTGCCCCGGGCCTGACCGCAGCCCCCCGCAGGGTGC
398	1017	75	GGTGCCGCCGGTGCCCCGGGCCTGACCGCAGCCCCCCGCAG
399	1017	210	GCTCTCCCGCCGCCCCGTCCCCCGGCCCGGCCGCCCCCCGG
400	1017	339	GGCCGTGAGGCCCGCAGGGGCCATGGCGAAGAAGAGCGCCG
401	1017	349	CCCCGCGGGCCTGGGGACACCCGGCGGCGGCCTGGCCGTGC
402	1017	181	CTGGGGACACCCGGCGGCGGCCTGGCCGTGCCGCCGCGCGC
403	1017	74	CCCCCCGCAGGGTGCCGCGACCCCAGCCCGGCCGTGAGGCC
404	1017	49	CGCTCTCCCGCCGCCCCGTCCCCCGGCCCGGCCGCCCCCCG
405	1017	306	GCGCCGCCTGTGACCCGCACCCCGCCGCTCTCCCGCCGCCC
406	1017	354	CGGGCCCGACGGGGCCCGGGCCAAGGGCGACGGCCCCGCGG
407	1017	321	GACACCCGGCGGCGGCCTGGCCGTGCCGCCGCGCGCGATAG
408	1017	300	CCGGGCCAAGGGCGACGGCCCCGCGGGCCTGGGGACACCCG
409	1017	252	CGCGCCCGGGCCCGACGGGGCCCGGGCCAAGGGCGACGGCC
410	1017	359	GATCGGCATATGTAGCGTGTCCGGCGACCAGAAGAAGGGTC
411	1019	453	CCGGCGGCGGCCTGGCCGTGCCGCCGCGCGCGATAGACCTG
412	1019	43	CTGCCCCTGCGGGTCGGGCACACAAGGGGCACATTGTGTCC
413	1019	242	TGTGTGGGCTTCGCCGTGGGCCTGGGCAACGTGTGGCGCTT
414	1019	190	TCGGGGCCGCCCCTGGTCCACCGCTGCTGCTCGGTGGCTGG
415	1019	119	CCGCCGCGGAGGGGTGAAGTCGGGGCAGCGGTTGGCCCCTG
416	1019	161	TCCCCCGCCCCCCGCGGCCCCCTCCCCCCAGCAGGCCGCCGG
417	1019	64	CCCTGACGCCCGACCCCCAACCCCCGGAGCCGCCGCGGAGG
418	1019	213	CTGGGCAACGTGTGGCGCTTCCCCTACCTGTGCTACAAGAA
419	1019	280	GGCAGCGGTTGGCCCCTGGGCACGCGGGGTCGGGGCCGCCC

420	1019	162	TGGGCCGTCCGCCTCCACCC**C**TCTCGCAGTCATGTGCCTGG
421	1019	141	CCTGACGCCCGACCCCCAAC**C**CCCGGAGCCGCCGCGGAGGG
422	1019	16	TCCCCCAGCAGGCCGCCGGC**C**CCTGACGCCCGACCCCCAAC
423	1019	268	TGTGTCCAGATGGACTTCAT**C**ATGTCGTGTGTGGGCTTCGC
424	1019	113	CTGCTCGGTGGCTGGGCCGT**C**CGCCTCCACCCCTCTCGCAG
425	1019	207	GTGAGCTCCCCCGCCCCCCG**C**GGCCCCCTCCCCCAGCAGGC
426	1019	251	AGTCCGGGCAGCGGTTGGCC**C**CTGGGCACGCGGGGTCGGGG
427	1019	337	CCCCTGGTCCACCGCTGCTG**C**TCGGTGGCTGGGCCGTCCGC
428	1019	248	GGCCGGCGATGCCCGCGAGG**C**TGCCCCCCAGACTCCTGGGC
429	1019	282	CCGCCCCTGGTCCACCGCTG**C**TGCTCGGTGGCTGGGCCGTC
430	1019	124	GGCCGTCCGCCTCCACCCCT**C**TCGCAGTCATGTGCCTGGCA
431	1019	109	CGCCCCCCGCGGCCCCCTCC**C**CCAGCAGGCCGCCGGCCCCT
432	1019	134	GGAGGTGAGCTCCCCCGCCC**C**CCGCGGCCCCCTCCCCCAGC
433	1019	217	GGCCCCCTCCCCCAGCAGGC**C**GCCGGCCCCTGACGCCCGAC
434	1019	117	GCGGTTGGCCCCTGGGCACG**C**GGGGTCGGGGCCGCCCCTGG
435	1019	111	GCTCCCCCGCCCCCCGCGGC**C**CCCTCCCCCAGCAGGCCGCC
436	1019	67	AGGTGAGCTCCCCCGCCCCCC**C**GCGGCCCCCTCCCCCAGCAG
437	1019	156	GGCAACGTGTGGCGCTTCCC**C**TACCTGTGCTACAAGAATGG
438	1019	103	CCGGCCCCTGACGCCCGACC**C**CCAACCCCCGGAGCCGCCGC
439	1019	279	AATGGCGGAGGTGAGCTCCC**C**CGCCCCCCGCGGCCCCCTCC
440	1019	108	CTGGGCCGTCCGCCTCCACC**C**CTCTCGCAGTCATGTGCCTG
441	1019	391	CGGAGGTGAGCTCCCCCGCC**C**CCCGCGGCCCCCTCCCCCAG
442	1019	447	TGGCCGCCGAGGTGGGAAAG**C**AGGCCTGCGCCTTGGGGTCT
443	1019	133	CCCTGGCTGCCCCTGCGGGT**C**GGGCACACAAGGGGCACATT
444	1019	149	CGGCCCCCTCCCCCAGCAGG**C**CGCCGGCCCCTGACGCCCGA
445	1019	21	CAGGCCGCCGGCCCCTGACG**C**CCGACCCCCAACCCCCGGAG
446	1027	407	CCAGATGGACTTCATCATGT**C**GTGTGTGGGCTTCGCCGTGG
447	1027	153	CAGAGGTCCAGAGCAAAGGC**C**TGTCTCCGCGAGGTAAGGAG
448	1027	32	CCTCCCCTCCCCTCGCAGCC**C**TCCCGCTCCTCCCCTCTGGC
449	1027	238	GTAAGGAGCCCTGGCTGCCC**C**TGCGGGTCGGGCACACAAGC
450	1027	186	GTGGCCTGGCCCGCCTGGCG**C**CGCCACTGGAAACACTGCAT
451	1027	368	CCTCTGGCCCGGGGCTGGAA**C**ACTGGGTACCTGAGCCAGGC
452	1027	173	GTTTCTGGAAGCCGAAGTGA**C**CCAGTGATGGGTGGGAAACA
453	1027	167	CTCCCGCTCCTCCCCTCTGG**C**CCGGGGCTGGAACACTGGGT
454	1027	195	GCAGCCCTCCCGCTCCTCCC**C**TCTGGCCCGGGGCTGGAACA
455	1027	341	CGGGGCTGGAACACTGGGTA**C**CTGAGCCAGGCTTGGGAAGC
456	1027	99	GTCCTGTGACTACAAAACAG**C**ACTGGGGTTTCTGGAAGCCG
457	1027	141	TGCACACACACGAACACACA**C**ACATATAATGGGCCACTCTG
458	1027	275	CCCTCTCCCTGCCCTCCCCT**C**CCCTCGCAGCCCTCCCGCTC
459	1027	133	GCATGCACGTCCCATGCCCG**C**CCGCCTGCCCGGGCCCCGCT
460	1027	333	CACTCTGTCCCTCTCCCTGC**C**CTCCCCTCCCCTCGCAGCCC
461	1027	216	ACGCGTGTGTCCTGTGACTA**C**AAAACAGCACTGGGGTTTCT
462	1027	227	CTGAGCCAGGCTTGGGAAGC**C**TGTGGCCTGGCCCGCCTGGC
463	1027	115	TTGGGAAGCCTGTGGCCTGG**C**CCGCCTGGCGCCGCCACTGG
464	1027	279	CACACACATATAATGGGCCA**C**TCTGTCCCTCTCCCTGCCCT
465	1027	156	GCACGTCCCATGCCCGCCCG**C**CTGCCCGGGCCCCGCTTAGC
466	1027	232	CCCCTCCCCTCGCAGCCCTC**C**CGCTCCTCCCCTCTGGCCCG
467	1027	400	AAGCCTGTGGCCTGGCCCGC**C**TGGCGCCGCCACTGGAAACA
468	1027	272	TGGGAAACAGAGGTCCAGAG**C**AAAGGCCTGTCTCCGCGAGG
469	1027	142	ACTGCATGCACGTCCCATGC**C**CGCCCGCCTGCCCGGGCCCC
470	1027	112	CCTCTCCCTGCCCTCCCCTC**C**CCTCGCAGCCCTCCCGCTCC
471	1027	370	ACACACACACATATAATGGG**C**CACTCTGTCCCTCTCCCTGC
472	1027	6	TTCTGGAAGCCGAAGTGACC**C**AGTGATGGGTGGGAAACAGA

473	1027	136	CCAGAGCAAAGGCCTGTCTCCGCGAGGTAAGGAGCCCTGGC
474	1027	121	TCTGTCCCTCTCCCTGCCCTCCCCTCCCCTCGCAGCCCTCC
475	1027	127	CATATAATGGGCCACTCTGTCCCTCTCCCTGCCCTCCCCTC
476	1027	299	ATGGGCCACTCTGTCCCTCTCCCTGCCCTCCCCTCCCCTCG
477	1027	271	CCTGCCCGGGCCCCGCTTAGCAAGAGCGATGGGCACGCGTG
478	1027	175	CACTGCATGCACGTCCCATGCCCGCCCGCCTGCCCGGGCCC
479	1027	83	CCCGCTCCTCCCCTCTGGCCCGGGGCTGGAACACTGGGTAC
480	1027	95	GTGGGCCCCCCACGTGTGCACACACACGAACACACACACAT
481	1027	267	CGTGTGCACACACACGAACACACACACATATAATGGGCCAC
482	1027	155	GAAACACTGCATGCACGTCCCATGCCCGCCCGCCTGCCCGG
483	1027	46	TCCCCTCCCCTCGCAGCCCTCCGCTCCTCCCCTCTGGCCC
484	1027	359	CTGCCCCTGCGGGTCGGGCACACAAGCGGCACATTGTGTGG
485	1027	223	AGCACTGGGGTTTCTGGAAGCCGAAGTGACCCAGTGATGGG
486	1027	166	AGGCTTGGGAAGCCTGTGGCCTGGCCCGCCTGGCGCCGCCA
487	1027	294	CGCAGCCCTCCCGCTCCTCCCCTCTGGCCCGGGGCTGGAAC
488	1027	138	GCCCGCCTGCCCGGGCCCCGCTTAGCAAGAGCGATGGGCAC
489	1027	29	TGTCCCTCTCCCTGCCCTCCCCTCCCCTCGCAGCCCTCCCG
490	1027	323	GAGGTAAGGAGCCCTGGCTGCCCTGCGGGTCGGGCACACA
491	1027	93	AGCGATGGGCACGCGTGTGTCCTGTGACTACAAAACAGCAC
492	1027	256	CACGTGTGCACACACACGAACACACACACATATAATGGGCC
493	1066	165	CGCCGCCACTGGAAACACTGCATGCACGTCCCATGCCCGCC
494	1066	390	GCCGAGATCGCGCCACTGCACTCCAGCCTGGGCCACAGCGT
495	1066	147	CAGCGGTCTTAGGGAATTCCCCCCGCGATGTCCCGGCGCGC
496	1066	422	CGGAGGTTGCAGTGAGCCGCCGAGATCGCGCCACTGCACTC
497	1066	9	CCGGCGCGCCAGTTCGCTTGCGCACACTTCGCTGCGGTCCT
498	1066	315	TGCGGTCCTCTTCGACCAGCCCGGCCAACATGGTGAAACCC
499	1066	157	GCAATTTCCTTTCCTCTAAGCGGCCTCCACCCCTCTCCCCT
500	1066	401	AGTGAGCCGCCGAGATCGCGCCACTGCACTCCAGCCTGGGC
501	1066	361	GGGAATTCCCCCCGCGATGTCCCGGCGCGCCAGTTCGCTTG
502	1066	310	GTGAAGCGGGTGTGCAAGCTCCGGGATCGCAGCGGTCTTAG
503	1066	82	ATAAAGCAATTTCCTTTCCTCTAAGCGGCCTCCACCCCTCT
504	1066	143	TGTGGCACGCACCTATAATTCCACCTACTCGGGAGGCTGAA
505	1066	38	GAGGCGGAGGTTGCAGTGAGCCGCCGAGATCGCGCCACTGC
506	1066	4	ATGGTGAAACCCCGTCTCTACTAAAAATACAAAAATCAGCC
507	1066	98	TTCGCTGCGGTCCTCTTCGACCAGCCCGGCCAACATGGTGA
508	1066	8	AATTCCACCTACTCGGGAGGCTGAAGCAGAATTGCTTGAAC
509	1066	408	CTGCGGTCCTCTTCGACCAGCCCGGCCAACATGGTGAAACC
510	1066	443	CCCCCCGCGATGTCCCGGCGCGCCAGTTCGCTTGCGCACAC
511	1066	411	GCACACTTCGCTGCGGTCCTCTTCGACCAGCCCGGCCAACA
512	1066	163	CCCGCGATGTCCCGGCGCGCCAGTTCGCTTGCGCACACTTC
513	1066	428	CCGCCGAGATCGCGCCACTGCACTCCAGCCTGGGCCACAGC
514	1066	171	CGCCAGTTCGCTTGCGCACACTTCGCTGCGGTCCTCTTCGA
515	1066	426	ATCGCGCCACTGCACTCCAGCCTGGGCCACAGCGTGAGACT
516	1066	58	CGCGCCAGTTCGCTTGCGCACACTTCGCTGCGGTCCTCTTC
517	1066	332	CTAAAAATACAAAAATCAGCCAGATGTGGCACGCACCTATA
518	1066	406	AAGCGGCCTCCACCCCTCTCCCCTGCCCTGTGAAGCGGGTG
519	1066	373	TTCCCCCCGCGATGTCCCGGCGCGCCAGTTCGCTTGCGCAC
520	1066	324	TGCAAGCTCCGGGATCGCAGCGGTCTTAGGGAATTCCCCCC
521	1066	57	TTTCCTCTAAGCGGCCTCCACCCCTCTCCCCTGCCCTGTGA
522	1066	440	ACTAAAAATACAAAAATCAGCCAGATGTGGCACGCACCTAT
523	1066	183	TGCGCACACTTCGCTGCGGTCCTCTTCGACCAGCCCGGCCA
524	1066	118	CACTCCAGCCTGGGCCACAGCGTGAGACTACGTCATAAAAT
525	1116	962	CTGAAGCAGAATTGCTTGAACCCGAGAGGCGGAGGTTGCAG

526	1116	328	GAGATGCTGGAGACCCCGCGCACAGGAAAGCCCCTGCAGTG
527	1116	233	CAGCATTCAGTCAATCCGGGCGGGAGCAGTCATCTGTGGT
528	1116	955	TGCGCGTTTCTCTACTTGCCCTTTCTAGAGAGGTGCAACGG
529	1116	372	CTTCGTGGAGATGCTGGAGACCCGCGCACAGGAAAGCCCC
530	1116	972	GCTGATTGGCTGGGCAGGAACAGCGCCGGGGCGTGGGCTGA
531	1116	645	AGACCCCGCGCACAGGAAAGCCCCTGCAGTGCCCATCGCGG
532	1116	53	TTTCCTGAACTTGGTCTTCACGGGAGAAGGGCTTCTTGAGG
533	1116	988	TAGGAAGCAGAAAGGTGATACAGAATTGGAGAGGTCGGAGT
534	1116	103	AAAGCCCCTGCAGTGCCCATCGCGGCCAGAGCAGCTGGGGC
535	1116	720	AACTGTATTAAATGCGAATCCCGAGAAAATTTCCCTTAACT
536	1116	198	GGGACCAAGTGGGGTTAGATCTAGACTCAGGAGCTCCTGGA
537	1116	747	TACATAAGTTGAAATGTCCCCAATGATTCAGCTGATGCGCG
538	1116	409	CAGGAGCTCCTGGAGCAGCGCCCAAACCGTAGTGGCACTGG
539	1116	917	CTGAGCACAGCCGCTTCGCTCTCTTTGCCACAGGAAGCCTG
540	1116	727	GCAAAGTCCAGAACGCGCTGCCAGACCCCCAACTCTGCCTT
541	1116	640	AGTGGGGTTAGATCTAGACTCAGGAGCTCCTGGAGCAGCGC
542	1116	696	TCAGATTTCCTGAACTTGGTCTTCACGGGAGAAGGGCTTCT
543	1116	13	GTGAAGTCCTCTGGCAAGTCCATGGGGACCAAGTGGGGTTA
544	1116	1069	TTTTTTAAAGAAAAATTTCTCCTAGCCTTTTCAAAGGTGTT
545	1116	851	ACGGGGGACTAGAGGTTAGTCTCACCTCCAGCGCGCCTGAG
546	1116	683	CGGTGGGTGGGAGGAAGCATCGTCCGCGGCGACTGGAACCG
547	1116	270	AGGCGTGGATAGTGTGAAGTCCTCTGGCAAGTCCATGGGGA
548	1116	342	ACGGAAGCCAGAACATTCCTCCTGGAAATTCAACCTGTTTC
549	1116	581	TCCGGGCCGGGAGCAGTCATCTGTGGTGAGGCTGATTGGCT
550	1116	824	CGAGGTAGGGGCACGCAAAGCTGGGAGCTACTATGGGACAG
551	1116	1155	CGGGGACCTGCTCTCTGAGCCCGCGGGCGGTGGGTGGGAGG
552	1116	298	ATGGATCTTGAAGGGGACCGCAATGGAGGAGCAAAGAAGAA
553	1116	396	TTCAACCTGTTTCGCAGTTTCTCGAGGAATCAGCATTCAGT
554	1116	487	GCCGGGGCGTGGGCTGAGCACAGCCGCTTCGCTCTCTTTGC
555	1116	786	GCAGAGGCCGCTGTTCGTTTCCTTTAGGTCTTTCCACTAAA
556	1116	323	GGACCATGTTGCCCGGAGCGCGCACAGCCCGCGCGGTGCGG
557	1116	222	GGAATCAGCATTCAGTCAATCCGGGCCGGGAGCAGTCATCT
558	1116	152	GATTCAGCTGATGCGCGTTTCTCTACTTGCCCTTTCTAGAG
559	1116	1033	TAGTTATATGGATATGAAGACTTATGTGAACTTTGAAAGAC
560	1116	1025	ACGGCGGGCGCTCCCTCTTACTGCTCTCTGGCTTCGACGGG
561	1116	572	GGGCATCAACGGCGGGCGCTCCTCTTACTGCTCTCTGGCT
562	1116	24	CAAGGAGCGCGAGGTAGGGGCACGCAAAGCTGGGAGCTACT
563	1116	1121	AAAATTTCTCCTAGCCTTTTCAAAGGTGTTAGGAAGCAGAA
564	1116	855	TGGCTAATGAGCTGCGGTTTCTCTTCAGGTCGGGATGGATC
565	1116	458	GGGTGGGAGGAAGCATCGTCCGCGGCGACTGGAACCGGGAG
566	1116	11	CGAGTAGCGGCTCTTCCAAGCTCAAAGAAGCAGAGGCCGCT
567	1116	643	ACTTTTTTAAAGAAAAATTTCTCCTAGCCTTTTCAAAGGTG
568	1116	258	GATTTCCTGAACTTGGTCTTCACGGGAGAAGGGCTTCTTGA
569	1116	811	TAGAGAGGTGCAACGGAAGCCAGAACATTCCTCCTGGAAAT
570	1116	116	AGCCCGCGCGGTGCGGGGACCTGCTCTCTGAGCCCGCGGGC
571	1116	448	GCGAATCCCGAGAAAATTTCCCTTAACTACGTCCTGTAGTT
572	1116	268	TGAGCTCATTCGAGTAGCGGCTCTTCCAAGCTCAAAGAAGC
573	1116	559	CAACGGAAGCCAGAACATTCCTCCTGGAAATTCAACCTGTT
574	1116	749	TTGGTGGCCGTTCCAAGGAGCGCGAGGTAGGGGCACGCAAA
575	1116	311	GGAGCTCCTGGAGCAGCGCCCAAACCGTAGTGGCACTGGAC
576	1116	1002	GCAGTTTCTCGAGGAATCAGCATTCAGTCAATCCGGGCCGG
577	1116	588	GCCCATCGCGGCCAGAGCAGCTGGGGCATCAACGGCGGGCG
578	1116	1104	GGGGCACGCAAAGCTGGGAGCTACTATGGGACAGTTCCCAA

579	1116	68	CCTGAGGCTCATGCATTTGGCTAATGAGCTGCGGTTTCTCT
580	1116	705	TGATACAGAATTGGAGAGGTCGGAGTTTTTGTATTAACTGT
581	1116	922	TCTGGCAAGTCCATGGGGACCAAGTGGGGTTAGATCTAGAC
582	1116	450	GTCCAGAACGCGCTGCCAGACCCCCAACTCTGCCTTCGTGG
583	1116	1179	AGCTCATTCGAGTAGCGGCTCTTCCAAGCTCAAAGAAGCAG
584	1116	629	GGAGGAGCAAAGAAGAAGAACTTTTTTAAAGAAAAATTTCT
585	1116	1014	GTGTCAGGCTTTCAGATTTCCTGAACTTGGTCTTCACGGGA
586	1116	180	CAGAGCAGCTGGGGCATCAACGGCGGGCGCTCCCTCTTACT
587	1116	938	AACTTTGAAAGACGTGTCTACATAAGTTGAAATGTCCCCAA
588	1116	736	CAGACCCCCAACTCTGCCTTCGTGGAGATGCTGGAGACCCC
589	1116	535	AGATCTAGACTCAGGAGCTCCTGGAGCAGCGCCCAAACCGT
590	1116	924	TATCTTCTTCCAAAATTTCACGTCTTGGTGGCCGTTCCAAG
591	1116	394	CCAGAACGCGCTGCCAGACCCCCAACTCTGCCTTCGTGGAG
592	1116	848	GCGCCGGGGCGTGGGCTGAGCACAGCCGCTTCGCTCTCTTT
593	1116	40	GGGCGGTGGGTGGGAGGAAGCATCGTCCGCGGCGACTGGAA
594	1116	524	TTTTCAAAGGTGTTAGGAAGCAGAAAGGTGATACAGAATTG
595	1116	445	TAAAGTCGGAGTATCTTCTTCCAAAATTTCACGTCTTGGTG
596	1116	1074	GCCTGAGCTCATTCGAGTAGCGGCTCTTCCAAGCTCAAAGA
597	1116	958	GGACTAGAGGTTAGTCTCACCTCCAGCGCGCCTGAGGCTCA
598	1116	197	CGTGGAGATGCTGGAGACCCCGCGCACAGGAAAGCCCCTGC
599	1116	115	CTACATAAGTTGAAATGTCCCCAATGATTCAGCTGATGCGC
600	1116	733	TGCGAATCCCGAGAAAATTTCCCTTAACTACGTCCTGTAGT
601	1128	263	GTTAGATCTAGACTCAGGAGCTCCTGGAGCAGCGCCCAAAC
602	1128	75	CTGGGAGAGGGGTTCCGGCCCCGACGTCGCTGGCGCGGGA
603	1128	219	GGGGGCGGGCCTGGCGGGCGCCTCTCCGGGCCCTTTGTTA
604	1128	112	GGCGCGCGGGCCGAGCCGGGCCTGAGCCGGGCCCGCGGACC
605	1128	174	GTTAACAGGCGCGTCCCGGCCAGGCGGAGACGCGGCCGCGG
606	1128	262	CGGGGCGGCGGTGAGGGCGGCTGGCGGGGCCGGGGGCGCCG
607	1261	197	GCTGGGAGAGGGGTTCCGGCCCCCGACGTCGCTGGCGCGGG
608	1261	255	ACCGCCCCCGCCCCGCCCCGCCCCTACCCGCTCCTCGGCGC
609	1261	49	CTTCAGTCCCGCGACCGAAGCAGGGCGCGCAGCAGCGCTGA
610	1261	93	CAAGCCCCACCCGGCCCAAGCCGCGCGTCCCGCACTGAGCT
611	1261	287	ACACGCGCCGGCCCCGGCCGCACCCCGCGCACGCAGAGCAA
612	1261	318	CAGCGCTGAGTGCCCCGGAACGTGCGTCGCGCCCCCAGTGT
613	1261	183	CCCCCAGTGTCCGTCGCGTCCGCCGCGCCCCGGGCGGGGAT
614	1261	309	TGGCCCACCCCTGGACCGCCCCCGCCCCGCCCCGCCCCTAC
615	1261	100	TGCGTCGCGCCCCCAGTGTCCGTCGCGTCCGCCGCGCCCCG
616	1261	198	CCGGCCCCGGCCGCACCCCGCGCACGCAGAGCAAGCACTGG
617	1261	36	CCGCCCCCGCCCCGCCCCGCCCTACCCGCTCCTCGGCGCA
618	1261	162	CCCCGCTCCTCCCCAAGCCCCACCCGGCCCAAGCCGCGCGT
619	1261	87	CCACCCGCCTCCGGCCCCGCCTGGCCCACCCCTGGACCGCC
620	1261	203	GCTCCTACACGCGCCGGCCCCGGCCGCACCCCGCGCACGCA
621	1261	291	CCCGCCCCGCCCCGCCCCTACCCGCTCCTCGGCGCAGCCGG
622	1261	102	GCTGAGTGCCCCGGAACGTGCGTCGCGCCCCCAGTGTCCGT
623	1261	26	GGCCCCGGCCGCACCCCGCGCACGCAGAGCAAGCACTGGAG
624	1261	123	CGCTCCCGCACCCCGCTCCTCCCCAAGCCCCACCCGGCCCA
625	1261	192	ACGCAGAGCAAGCACTGGAGCCCCGCCCCTTCCCGCACCCC
626	1261	86	CCTGGACCGCCCCCGCCCCGCCCCGCCCCTACCCGCTCCTC
627	1261	189	AGCTCCTACACGCGCCGGCCCCGGCCGCACCCCGCGCACGC
628	1261	181	ACCCCTGGACCGCCCCCGCCCCGCCCCGCCCCTACCCGCTC
629	1261	124	CCTGGCCCACCCCTGGACCGCCCCCGCCCCGCCCCGCCCCT
630	1261	184	CGCAGAGCAAGCACTGGAGCCCCGCCCCTTCCCGCACCCCA
631	1261	156	GGCCCACCCCTGGACCGCCCCCGCCCCGCCCCGCCCCTACC

632	1261	23	CGCACCCCACCCGCCTCCGGCCCCGCCTGGCCCACCCCTGG
633	1261	35	CCCCGCTCCCGCACCCCGCTCCTCCCCAAGCCCCACCCGGC
634	1261	270	ACCCCGCTCCTCCCCAAGCCCCACCCGGCCCAAGCCGCGCG
635	1261	238	CGAAGCAGGGCGCGCAGCAGCGCTGAGTGCCCCGGAACGTG
636	1261	40	AGCCGGCGCTTGCCTAGCTTCAGTCCCGCGACCGAAGCAGG
637	1261	298	GCTCCTCCCCAAGCCCCACCCGGCCCAAGCCGCGCGTCCCG
638	1261	187	GCCCCGGAACGTGCGTCGCGCCCCCAGTGTCCGTCGCGTCC
639	1261	185	CCACCCCTGGACCGCCCCCGCCCCGCCCCGCCCCTACCCGC
640	1261	91	GCCCACCCCTGGACCGCCCCCGCCCCGCCCCGCCCCTACCC
641	1261	21	CTACACGCGCCGGCCCCGGCCGCACCCCGCGCACGCAGAGC
642	1261	96	CACCCCGCTCCCGCACCCCGCTCCTCCCCAAGCCCCACCCG
643	1261	299	CGCGCCGGCCCCGGCCGCACCCGCGCACGCAGAGCAAGCA
644	1261	128	CCCCGGAACGTGCGTCGCGCCCCCAGTGTCCGTCGCGTCCG
645	1261	10	GAGCAAGCACTGGAGCCCCGCCCCTTCCCGCACCCCACCCG
646	1261	78	GGGCGGGGATGCACCCCGCTCCGCACCCCGCTCCTCCCCA
647	1261	34	CCGCACTGAGCTCCTACACGCGCCGGCCCCGGCCGCACCCC
648	1261	147	CACCCCGCTCCTCCCCAAGCCCCACCCGGCCCAAGCCGCGC
649	1261	282	GCCCCTTCCCGCACCCCACCCGCCTCCGGCCCCGCCTGGCC
650	1261	281	CGCAGCAGCGCTGAGTGCCCCGGAACGTGCGTCGCGCCCCC
651	1261	90	GCGCAGCAGCGCTGAGTGCCCCGGAACGTGCGTCGCGCCCC
652	1261	328	CCTACACGCGCCGGCCCCGGCCGCACCCCGCGCACGCAGAG
653	1261	146	CCGTCGCGTCCGCCGCGCCCCGGGCGGGGATGCACCCCGCT
654	1261	125	CGCCCCTTCCCGCACCCCACCCGCCTCCGGCCCCGCCTGGC
655	1329	109	GCAGAGCAAGCACTGGAGCCCCGCCCCTTCCCGCACCCCAC
656	1329	372	CCACCCCAGGTATTGGAATTCACAAATGGCAATGCTGTGGG
657	1329	260	CCCCTATCACCATCTATGATCCCACGTCTGCTGAATCAGTT
658	1329	14	GCTTACTCTCTGCAAAGAATCCTTTGTGTGTAAAGACCAGG
659	1329	84	TGATCCCACGTCTGCTGAATCAGTTGTGGGGTTTATACGCG
660	1329	355	ATTGCGCCAAACCTAAAGAGCCCCCCCACCCCAGGTATTGG
661	1329	93	AACTGATTGAGTTTTCTCCCCTATCACCATCTATGATCCCA
662	1329	353	AACCTAAAGAGCCCCCCCACCCCGGTATTGGAATTCACAA
663	1329	354	GTAACTGATTGAGTTTTCTCCCCTATCACCATCTATGATCC
664	1329	166	TAACTGATTGAGTTTTCTCCCCTATCACCATCTATGATCCC
665	1329	277	CCTCAGGGGGTCACAAATGCCACTAGGGGGGCAGGACACAT
666	1329	220	AATCCTTTGTGTGTAAAGACCAGGGTTGTCGCACGGCGCTC
667	1329	147	TGGTACCTCGTGGACTCGGACTCCCAAATCAACAAGATCGG
668	1329	224	GGGTCACCCAAGTTCAGTACCTCAGGGGGTCACAAATGCCA
669	1329	310	ACCTCGTGGACTCGGACTCCCAAATCAACAAGATCGGCTTA
670	1329	199	CGGCGCTCGTACATCGCAGTCCTGAAACGGATTGTGCAGTG
671	1329	232	GGACACATGCATTTTCTAGGCTGGTACCTCGTGGACTCGGA
672	1329	188	GACTCGGACTCCCAAATCAACAAGATCGGCTTACTCTCTGC
673	1329	306	CTAGGGGGGCAGGACACATGCATTTTCTAGGCTGGTACCTC
674	1329	111	CGCACGGCGCTCGTACATCGCAGTCCTGAAACGGATTGGGC
675	1329	362	ACCCCTGGTATTGGAATTCACAAATGGCAATGCTGTGGGTC
676	1329	146	TGAGTTTTCTCCCCTATCACCATCTATGATCCCACGTCTGC
677	1329	222	TGGGTCACCCAAGTTCAGTACCTCAGGGGGTCACAAATGCC
678	1329	87	GTACCTCGTGGACTCGGACTCCCAAATCAACAAGATCGGCT
679	1329	86	GCGCCAAACCTAAAGAGCCCCCCCACCCCTGGTATTGGAAT
680	1329	118	TGCGCCAAACCTAAAGAGCCCCCCACCCCTGGTATTGGAA
681	1329	311	GTATTGGAATTCACAAATGGCAATGCTGTGGGTCACCCAAG
682	1329	94	GGCGCTCGTACATCGCAGTCCTGAAACGGATTGAGCAGTGA
683	1329	75	ACCTAAAGAGCCCCCCCACCCTGGTATTGGAATTCACAAA
684	1329	85	GCAAAATCGATTGCGCCAAACCTAAAGAGCCCCCCCACCCC

685	1345	257	TTGCGCCAAACCTAAAGAGCCCCCCCACCCCCGGTATTGGA
686	1345	279	CTGGGGTGACCAAGACCAGACTGTAAGATAACTAATAAAAC
687	1345	106	GTAAGATAACTAATAAAACTCATCGCAAGAGAGTCCTGACA
688	1345	293	GATTTCAGCTGCATAACTTTCAACAGAAGCTAAGAGCAATG
689	1345	173	AAAACTCATCGCAAGAGAGTCCTGACAAACGTGACGACTCA
690	1345	166	ACAGGGCATCTCTCCTGTCCCCATTCTATCACTGATAGTAG
691	1345	159	TGGAGGGACAGGGCATCTCTCCTGTCCCCATTCTATCACTG
692	1345	215	ACGTGGCTGGAGGGACAGGGCATCTCTCCTGTCCCCATTCT
693	1345	312	ACTTCAGTAGGATAGGGAGACCATACTGTGCCCTCCGGTTG
694	1345	268	TCCTGACAAACGTGACGACTCACCCAGAAAAGGGACGTCCT
695	1345	253	AAGACCAGACTGTAAGATAACTAATAAAACTCATCGCAAGA
696	1345	26	TTGACTGGGGTGACCAAGACCAGACTGTAAGATAACTAATA
697	1345	3	CTGCCATCTGGAGCTCCGGTCACTTCCATCTAGAGCTGCTC
698	1345	35	TCACCCAGAAAAGGGACGTCCTCCTGCCATCTGGAGCTCCG
699	1345	225	GGAGCTCCGGTCACTTCCATCTAGAGCTGCTCTACTCTCTG
700	1345	13	GATAGGGAGACCATACTGTGCCCTCCGGTTGACTGGGGTGA
701	1345	284	AAGGGACGTCCTCCTGCCATCTGGAGCTCCGGTCACTTCCA
702	1345	5	ATAACTAATAAAACTCATCGCAAGAGAGTCCTGACAAACGT
703	1345	31	ACCCAGAAAAGGGACGTCCTCCTGCCATCTGGAGCTCCGGT
704	1345	115	ATCTGGAGCTCCGGTCACTTCCATCTAGAGCTGCTCTACTC
705	1345	97	TGCATAACTTTCAACAGAAGCTAAGAGCAATGGTATACGCA
706	1345	314	GACTCTGTGGATTTCAGCTGCATAACTTTCAACAGAAGCTA
707	1345	145	CTGACAAACGTGACGACTCACCCAGAAAAGGGACGTCCTCC
708	1345	154	TGGTATACGCACGCACGTGGCTGGAGGGACAGGGCATCTCT
709	1345	162	CACGCACGTGGCTGGAGGGACAGGGCATCTCTCCTGTCCCC
710	1345	298	TGGCTGGAGGGACAGGGCATCTCTCCTGTCCCCATTCTATC
711	1376	258	TCATCGCAAGAGAGTCCTGACAAACGTGACGACTCACCCAG
712	1376	225	CCCGCGGGAAGACGTCTCAGCCTGGGCTGCCCCCAGACCCC
713	1376	197	TCCAGCGCCGCCCTTGCTGCCAGCCCTGGCCCACCCGCGGG
714	1376	11	GCCACTCCAAATAGAGAGCCCCAAATATTCCAGCGCCGCCC
715	1376	277	GACCCCTGCTCGGTTCCCGCCAGGAAACATCCGGGTGCCCG
716	1376	228	GCCTGGGCTGCCCCCAGACCCCTGCTCGGTTCCCGCCAGGA
717	1376	242	AGCGCCGCCCTTGCTGCCAGCCCTGGCCCACCCGCGGGAAG
718	1376	6	TGCCAGCCCTGGCCCACCCGCGGGAAGACGTCTCAGCCTGG
719	1376	196	CCCCAGACCCCTGCTCGGTTCCGCCAGGAAACATCCGGGT
720	1376	207	CGCCACTCCAAATAGAGAGCCCCAAATATTCCAGCGCCGCC
721	1376	132	ATAGAGAGCCCCAAATATTCCAGCGCCGCCCTTGCTGCCAG
722	1376	215	GAAGGAACCTGACCCAGGCTCTGTGAGGAGGCAAGGTGAGA
723	1376	173	CCCCAAATATTCCAGCGCCGCCTTGCTGCCAGCCCTGGCC
724	1376	230	GGCTGAGGGAGGACTGAGGACCCCGCCACTCCAAATAGAGA
725	1376	195	CGCCGCCCTTGCTGCCAGCCCTGGCCCACCCGCGGGAAGAC
726	1376	198	CCGCCACTCCAAATAGAGAGCCCCAAATATTCCAGCGCCGC
727	1376	253	CCACTCCAAATAGAGAGCCCCAAATATTCCAGCGCCGCCCT
728	1376	42	GCCCACCCGCGGGAAGACGTCTCAGCCTGGGCTGCCCCCAG
729	1376	7	CGGGTGCCCGGATGTGACGCCACTGACTTGCGCATTGTGGG
730	1376	87	CCCAGACCCCTGCTCGGTTCCGCCAGGAAACATCCGGGTG
731	1437	732	AGAGAAGCGAGGTTTCCATTCTGAGGGACGGCGTAGAGTTC
732	1437	198	GGTGTCCATTGAAGAGCCACCAGGGCATGCAGGCGGGATAG
733	1437	187	ACCCACACCCATGCTGCCCCCTCCCCCCATCCACCAGCCT
734	1437	590	TGTCTCCCCCCACCCACACCCATGCTGCCCCCCTCCCCCCA
735	1437	632	GCAGCAATCACAACCTGTGGCCTGTTTCAGAGCCTAATCTC
736	1437	574	GCTTTCTGCCCTCCAGAGGTCTCTGGAGAAGCCGCTGACTC
737	1437	728	AAGGGCATCTGAGAGGGCAGCAATCACAACCTGTGGCCTGT

738	1437	559	TTAAGGTGTCCATTGAAGAG**C**CACCAGGGCATGCAGGCGGG
739	1437	779	TGCCTTCCTTTTCCTAAGGG**C**ATCTGAGAGGGCAGCAATCA
740	1437	652	GGCCAGGGTATGCATGTGTT**C**TTCTTCCTCTATGTGGCTGC
741	1437	59	CTCTGGAGAAGCCGCTGACT**C**ACACCCCGGAGATGAACTCC
742	1437	671	GGCAGGACTGAGAGAGCCCC**C**ACCCCACCCATTTTCCACCC
743	1437	234	TCACACCCCGGAGATGAACT**C**CTGGACTTTGCCAGGTAGGA
744	1437	624	AGCCTCTATCCCTGGCTTTT**C**TGGCCTCTCCGAGTTTGTGC
745	1437	130	TAATCTCTGCTTTCTGCCCT**C**CAGAGGTCTCTGGAGAAGCC
746	1437	275	TTTCAAATTCCAGTCTGCAT**C**AATCACCCCCGTGTCCCATT
747	1437	307	CTATAGATTTGAGGAAGCTT**C**CAGCTAGGAAGACCGGTATG
748	1437	175	ACCGGTATGGTGATGTTCCT**C**ATTCCAGGGAGACTTGTAAA
749	1437	492	GAACATCTGGCCTGTCTCCC**C**CCACCCACACCCATGCTGCC
750	1437	202	TCCCCAAGAAGGGGCACAGG**C**CAGAGATGAGCAAGGTTCTG
751	1437	583	ACACCCATGCTGCCCCCCTC**C**CCCCATCCACCAGCCTCTAT
752	1437	78	TGAGAGGGCAGCAATCACAA**C**CTGTGGCCTGTTTCAGAGCC
753	1437	486	CCACCCCACCCATTTTCCAC**C**CGGAGCATGAAGCACGTGGG
754	1437	165	TACCTTTCCCCAAGAAGGGG**C**ACAGGCCAGAGATGAGCAAG
755	1437	41	CCCATTCCAAGAACATCTGG**C**CTGTCTCCCCCCACCCACAC
756	1437	139	GCATCTCCATATTATCTTGG**C**AGGACTGAGAGAGCCCCCAC
757	1437	737	CCAGTCTGCATCAATCACCC**C**CGTGTCCCATTCCAAGAACA
758	1437	421	CCATTGAAGAGCCACCAGGG**C**ATGCAGGCGGGATAGGGTGG
759	1437	212	AAGCCCTCTGCTAAGGGTCT**C**CTTTAGAGAAAAAAAAAATG
760	1437	405	TGCCCCCCTCCCCCCATCCA**C**CAGCCTCTATCCCTGGCTTT
761	1437	578	GGCCAGATTAGGCTGCAAGC**C**CTCTGCTAAGGGTCTCCTTT
762	1437	61	GCATCTGAGAGGGCAGCAAT**C**ACAACCTGTGGCCTGTTTCA
763	1437	404	CAGGACTGAGAGAGCCCCCA**C**CCCACCCATTTTCCACCCGG
764	1437	63	AGGCCAGATTAGGCTGCAAG**C**CCTCTGCTAAGGGTCTCCTT
765	1437	136	GGACTGAGAGAGCCCCCACC**C**CACCCATTTTCCACCCGGAG
766	1437	377	ATTCCAGTCTGCATCAATCA**C**CCCCGTGTCCCATTCCAAGA
767	1437	613	TGTTTGAGAACACCTCTAGT**C**CTTGTGAGGCCAGATTAGGC
768	1437	524	GTTTCAGAGCCTAATCTCTG**C**TTTCTGCCCTCCAGAGGTCT
769	1437	238	AAGGTTCTGGGAACAGAGTC**C**CGATTCTGGAGTCCTGCCTT
770	1437	580	TCTATCCCTGGCTTTTCTGG**C**CTCTCCGAGTTTGTGCCTAT
771	1437	525	ATCTGAGAGGGCAGCAATCA**C**AACCTGTGGCCTGTTTCAGA
772	1437	28	AGGTTCTGGGAACAGAGTCC**C**GATTCTGGAGTCCTGCCTTC
773	1437	809	TAGACAGGGCGAGGCATCTC**C**ATATTATCTTGGCAGGACTG
774	1437	370	TATGTGGCTGCCCACAGAGC**C**TTCACCTGACCTTATTTAGT
775	1437	56	AAAAAGGTGTTTGAGAACAC**C**TCTAGTCCTTGTGAGGCCAG
776	1437	493	CTTGGCAGGACTGAGAGAGC**C**CCCACCCCACCCATTTTCCA
777	1437	22	CCCCAAGAAGGGGCACAGGC**C**AGAGATGAGCAAGGTTCTGG
778	1437	538	GGGACCTAGACAGGGCGAGG**C**ATCTCCATATTATCTTGGCA
779	1437	311	AGAGTCCCGATTCTGGAGTC**C**TGCCTTCCTTTTCCTAAGGG
780	1437	468	GTATGGTGATGTTCCTCATT**C**CAGGGAGACTTGTAAATTTG
781	1437	625	GCCGGCAGAGGGGTTCTCTA**C**CTTTCCCCAAGAAGGGGCAC
782	1437	137	AATCTCTGCTTTCTGCCCTC**C**AGAGGTCTCTGGAGAAGCCG
783	1437	279	TTCCAGTCTGCATCAATCAC**C**CCCGTGTCCCATTCCAAGAA
784	1437	224	AGATTTGAGGAAGCTTCCAG**C**TAGGAAGACCGGTATGGTGA
785	1437	443	CCCATCCACCAGCCTCTATC**C**CTGGCTTTTCTGGCCTCTCC
786	1437	243	TTTAGAGAAAAAAAAAATGG**C**AAGGGCCGGCAGAGGGGTTC
787	1437	74	CCCTGGCTTTTCTGGCCTCT**C**CGAGTTTGTGCCTATAGATT
788	1437	704	GCCCCCACCCCACCCATTTTT**C**CACCCGGAGCATGAAGCACG
789	1437	406	AGGTAGGAAAACGCTGAGGT**C**ACCTTAAGGTGTCCATTGAA
790	1437	419	GCCAGATTAGGCTGCAAGCC**C**TCTGCTAAGGGTCTCCTTTA

791	1437	620	GCAAGCCCTCTGCTAAGGGTCTCCTTTAGAGAAAAAAAAAA
792	1437	109	AGCCTAATCTCTGCTTTCTGCCCTCCAGAGGTCTCTGGAGA
793	1437	204	AGCACGTGGGGAATGTTCCCCTTTCAAATTCCAGTCTGCAT
794	1437	551	ACCCATGCTGCCCCCCTCCCCCATCCACCAGCCTCTATCC
795	1437	788	TGGAGTCCTGCCTTCCTTTTCCTAAGGGCATCTGAGAGGGC
796	1437	546	ATGCATGTGTTCTTCTTCCTCTATGTGGCTGCCCACAGAGC
797	1440	173	GATTCTGGAGTCCTGCCTTCCTTTTCCTAAGGGCATCTGAG
798	1440	17	GGCTGCAGGACTACTTAATGCAAGCTGCGGGGCAGAGAAAT
799	1440	163	GACAATTACCAGCAACACTCCTTTCAACGCAAATTCCAGCC
800	1440	148	TCGAACAGTCGGCTGCAGGACTACTTAATGCAAGCTGCGGG
801	1440	338	CGGGCTCTTTACACTTCGAACAGTCGGCTGCAGGACTACTT
802	1440	377	AGCTTGATATCGAATTAGGCCAACGCTGTCAAGGGATCGTT
803	1440	14	TTTGGGATCGGGGCAATCAGCACCGGCTCAGGACGAAACCA
804	1440	263	GCGGACAATTACCAGCAACACTCCTTTCAACGCAAATTCCA
805	1440	396	CTAAGCTATTTTGTGGGCACCTGCAAGGGCGCCTCGTGATC
806	1440	215	GCACCGGCTCAGGACGAAACCATCAAGATGGGTGCCCTCGC
807	1440	431	ATAACAAGCGACCACTACATCTACTGTATATAAGACCTTGC
808	1440	379	CCTCGCGGTGTTCGCCGTCGCTTGCCTCGCGGCAGTGGCGT
809	1440	380	TGGGATCGGGGCAATCAGCACCGGCTCAGGACGAAACCATC
810	1440	399	GGGATCGGGGCAATCAGCACCGGCTCAGGACGAAACCATCA
811	1440	212	CCGGCTCAGGACGAAACCATCAAGATGGGTGCCCTCGCGGT
812	1440	40	ATTATAACAAGCGACCACTACATCTACTGTATATAAGACCT
813	1440	21	TCAACGCAAATTCCAGCCTGCTGGACGTTATGCATAATCCA
814	1440	374	ATTACCAGCAACACTCCTTTCAACGCAAATTCCAGCCTGCT
815	1440	341	TCGTTTGGGATCGGGGCAATCAGCACCGGCTCAGGACGAAA
816	1440	177	TTGATATCGAATTAGGCCAACGCTGTCAAGGGATCGTTTGG
817	1440	70	GCAGGACTACTTAATGCAAGCTGCGGGGCAGAGAAATTATA
818	1440	12	TGCATAATCCACGTACGTCCCACCCCGCCATGATGGCGCCA
819	1440	218	CGGCTGACAATTACCAGCAACACTCCTTTCAACGCAAATTC
820	1440	237	ACAAGCGACCACTACATCTACTGTATATAAGACCTTGCGCC
821	1440	365	ACTGTATATAAGACCTTGCGCCTCTGCTAAGCTATTTTGTG
822	1440	243	GTCAAGGGATCGTTTGGGATCGGGGCAATCAGCACCGGCTC
823	1440	58	TATAAGACCTTGCGCCTCTGCTAAGCTATTTTGTGGGCACC
824	1440	69	TGCTGGACGTTATGCATAATCCACGTACGTCCCACCCCGCC
825	1440	467	ATGCATAATCCACGTACGTCCCACCCCGCCATGATGGCGCC
826	1440	260	GGCGTCGGTTGCGCATGCGGCTGACAATTACCAGCAACACT
827	1440	355	CTGCTAAGCTATTTTGTGGGCACCTGCAAGGGCGCCTCGTG
828	1443	130	GGCCAACGCTGTCAAGGGATCGTTTGGGATCGGGGCAATCA
829	1443	269	ATTGGGACAACGAGGACAGTCAGTTTAAGACGCAGATCCGC
830	1443	38	TGCCGAGCTGGCGGAGCGGCCGGCTGTGTTCCAGGCAAAGG
831	1443	178	GGGCACGCGGCCCAGGCCTGCTGTTGACCTTCTCACATGCA
832	1443	284	ACCCCGCAGCCGGCGTGGGCCACCACCGCCTGCTCACCGCC
833	1443	346	GCGGCCGGCTGTGTTCCAGGCAAAGGTCGAGGTGAGAGAAA
834	1443	213	GCCTTGTGGGGAGCGGGCGTCAGTGGAAGAAAGTGGTCTGG
835	1443	153	ACCGCCGCCAGCGAGCGCGCCATCGCCACCCGCCGCCGCGC
836	1443	368	TTTAAGACGCAGATCCGCGGCGCCAACCCCGCAGCCGGCGT
837	1443	467	GTGGAAGAAAGTGGTCTGGGCGGCGTTGGGGGCGCGCCGGG
838	1443	87	CTGTGTCGCTTGCACCCCAACCCCGCGTGTGTGGGGTGCGG
839	1443	219	CCCCGCCCCGTACTAATTTCCATGCCTAACACACACCCACA
840	1443	197	GCCAGCGAGCGCGCCATCGCCACCCGCCGCCGCGCCCAGGC
841	1443	96	CCACCACCGCCTGCTCACCGCCGCCAGCGAGCGCGCCATCG
842	1443	21	GTACTAATTTCCATGCCTAACACACACCCACAGGATTGGGA
843	1443	222	CCGCGTGTGTGGGGTGCGGGCACGCGGCCCAGGCCTGCTGT

844	1443	74	AGCGAGCGCGCCATCGCCAC**C**CGCCGCCGCGCCCAGGCCGC
845	1443	156	ATGCAACGCTCACCCCCGCC**C**CGTACTAATTTCCATGCCTA
846	1443	147	AAGACGCAGATCCGCGGCGC**C**AACCCCGCAGCCGGCGTGGG
847	1443	51	AGTCAGTTTAAGACGCAGAT**C**CGCGGCGCCAACCCCGCAGC
848	1443	86	AGGCCTGCTGTTGACCTTCT**C**ACATGCAACGCTCACCCCCG
849	1443	91	CCCCCGCCCCGTACTAATTT**C**CATGCCTAACACACACCCAC
850	1443	464	GCCCCGTACTAATTTCCATG**C**CTAACACACACCCACAGGAT
851	1443	435	TCACTGTGTCGCTTGCACCC**C**AACCCCGCGTGTGTGGGGTG
852	1443	463	GTTCGGCTCGTGTCGTTTGT**C**CTTTTGGCTCACTGTGTCGC
853	1443	30	CTCACTGTGTCGCTTGCACC**C**CAACCCCGCGTGTGTGGGGT
854	1443	92	TGGGGTGCGGGCACGCGGCC**C**AGGCCTGCTGTTGACCTTCT
855	1443	167	CCCCGTACTAATTTCCATGC**C**TAACACACACCCACAGGATT
856	1443	462	CCGCGGCGCCAACCCCGCAG**C**CGGCGTGGGCCACCACCGCC
857	1445	138	GCTCACTGTGTCGCTTGCAC**C**CCAACCCCGCGTGTGTGGGG
858	1445	193	GATCCCTTGACAGCGTTGGC**C**TAATTCGATATCAAGCTTAT
859	1445	112	TCTAGATAAAGTCCGGAGAT**C**ACGAGGCGCCCTTGCAGGTG
860	1445	389	CGGTGCTGATTGCCCCGATC**C**CAAACGATCCCTTGACAGCG
861	1445	319	AAAAAAATTCCGCATGGCGC**C**ATCATGGCGGGGTGGGACGT
862	1445	208	TGCATTAAGTAGTCCTGCAG**C**CGACTGTTCGAAGTGTAAAG
863	1445	202	GAGATCACGAGGCGCCCTTG**C**AGGTGCCCACAAAATAGCTT
864	1445	203	AGTCCGGAGATCACGAGGCG**C**CCTTGCAGGTGCCCACAAAA
865	1445	107	GTCCGGAGATCACGAGGCGC**C**CTTGCAGGTGCCCACAAAAT
866	1445	271	TGAGCCGGTGCTGATTGCCC**C**GATCCCAAACGATCCCTTGA
867	1445	31	TACAGTAGATGTAGTGGTCG**C**TTGTTATAATTTCTCTGCCC
868	1445	137	ATGCGCAACCGACGCCACTG**C**CGCGAGGCAAGCGACGGCGA
869	1445	422	CGATCCCTTGACAGCGTTGG**C**CTAATTCGATATCAAGCTTA
870	1445	121	TGGGACGTACGTGGATTATG**C**ATAACGTCCAGCAGGCTGGA
871	1445	104	TTGCCCCGATCCCAAACGAT**C**CCTTGACAGCGTTGGCCTAA
872	1445	67	TCCTGAGCCGGTGCTGATTG**C**CCCGATCCCAAACGATCCCT
873	1445	431	GGCGAACACCGCGAGGGCAC**C**CATCTTGATGGTTTCGTCCT
874	1445	66	CGTGGATTATGCATAACGTC**C**AGCAGGCTGGAATTTGCGTT
875	1445	301	CGGCGAACACCGCGAGGGCA**C**CCATCTTGATGGTTTCGTCC
876	1445	226	TTTCTCTGCCCCGCAGCTTG**C**ATTAAGTAGTCCTGCAGCCG
877	1445	320	TGCAGGTGCCCACAAAATAG**C**TTAGCAGAGGCGCAAGGTCT
878	1445	392	GCATTAAGTAGTCCTGCAGC**C**GACTGTTCGAAGTGTAAAGA
879	1445	245	AAAATTCCGCATGGCGCCAT**C**ATGGCGGGGTGGGACGTACG
880	1445	359	GCTTAGCAGAGGCGCAAGGT**C**TTATATACAGTAGATGTAGT
881	1445	28	GAGCCCGTACATGTAGGGCC**C**GTTTTTCCAAAAAAATTCC
882	1445	128	CGCATGCGCAACCGACGCCA**C**TGCCGCGAGGCAAGCGACGG
883	1447	193	GATCCCAAACGATCCCTTGA**C**AGCGTTGGCCTAATTCGATA
884	1447	134	ACCTCGACCTTTGCCTGGAA**C**ACAGCCGGCCGCTCCGCCAG
885	1447	18	TCTTCCACTGACGCCCGCTC**C**CCACAAGGCCCACCCCCGCT
886	1447	456	GCGGGTTGGGGTGCAAGCGA**C**ACAGTGAGCCAAAAGGACAA
887	1447	299	CCTGGGCCGCGTGCCCGCAC**C**CCACACACGCGGGTTGGGGT
888	1447	429	GCAGGCGGTGGTGGCCCACG**C**CGGCTGCGGGGTTGGCGCCG
889	1447	443	GTTGCATGTGAGAAGGTCAA**C**AGCAGGCCTGGGCCGCGTGC
890	1447	266	GGTCAACAGCAGGCCTGGGC**C**GCGTGCCCGCACCCCACACA
891	1447	175	GGGTGGCGATGGCGCGCTCG**C**TGGCGGCGGTGAGCAGGCGG
892	1447	346	TGCTCTACTCTTTCTCTCAC**C**TCGACCTTTGCCTGGAACAC
893	1447	172	TGCGTCTTAAACTGACTGTC**C**TCGTTGTCCCAATCCTGTGG
894	1447	208	GCTTGCTCTACTCTTTCTCT**C**ACCTCGACCTTTGCCTGGAA
895	1447	118	TGGAACACAGCCGGCCGCTC**C**GCCAGCTCGGCACTGACGGC
896	1447	104	GCCGCCCAGACCACTTTCTT**C**CACTGACGCCCGCTCCCCAC

897	1447	180	GGCGCGCCCCCAACGCCGCCCAGACCACTTTCTTCCACTGA
898	1447	77	TACTCTTTCTCTCACCTCGACCTTTGCCTGGAACACAGCCG
899	1447	115	ATCCCGTCGAATCCACGTCCCGCCCCGGCGCGCCCCCAAC
900	1447	207	AACGCCGCCCAGACCACTTTCTTCCACTGACGCCCGCTCCC
901	1447	174	CTGGAACACAGCCGGCCGCTCGCCAGCTCGGCACTGACGG
902	1447	15	TTGCTCTACTCTTTCTCTCACCTCGACCTTTGCCTGGAACA
903	1447	413	CACGCGGGTTGGGGTGCAAGCGACACAGTGAGCCAAAAGGA
904	1447	11	CGGGGCGGGGGTGAGCGTTGCATGTGAGAAGGTCAACAGCA
905	1447	128	CACACACGCGGGTTGGGGTGCAAGCGACACAGTGAGCCAAA
906	1447	170	CCACTTTCTTCCACTGACGCCCGCTCCCCACAAGGCCCACC
907	1447	148	CCGCTTGCTCTACTCTTTCTCTCACCTCGACCTTTGCCTGG
908	1447	295	CCGCTCCCCACAAGGCCCACCCCCGCTTGCTCTACTCTTTC
909	1447	157	GTGAGCAGGCGGTGGTGGCCCACGCCGGCTGCGGGGTTGGC
910	1447	145	ACAAGGCCCACCCCCGCTTGCTCTACTCTTTCTCTCACCTC
911	1447	262	CGCCCGCTCCCCACAAGGCCCACCCCCGCTTGCTCTACTCT
912	1447	92	CGGCGGGTGGCGATGGCGCGCTCGCTGGCGGCGGTGAGCAG
913	1447	210	CGTCCCCGCCCCGGCGCGCCCCCAACGCCGCCCAGACCACT
914	1447	354	GAACACAGCCGGCCGCTCCGCCAGCTCGGCACTGACGGCGG
915	1447	457	AAACTGACTGTCCTCGTTGTCCCAATCCTGTGGGTGTGTGT
916	1447	325	CTGGGCCGCGTGCCCGCACCCCACACACGCGGGTTGGGGTG
917	1447	127	GCGGGGTTGGCGCCGCGGATCTGCGTCTTAAACTGACTGTC
918	1447	211	ACCACTTTCTTCCACTGACGCCCGCTCCCCACAAGGCCCAC
919	1447	94	AACACAGCCGGCCGCTCCGCCAGCTCGGCACTGACGGCGGC
920	1447	49	TCCCCGCCCCGGCGCGCCCCCAACGCCGCCCAGACCACTTT
921	1447	125	AAAAGGACAAACGACACGAGCGAACCTATCCCGTCGAATC
922	1447	138	AGACCACTTTCTTCCACTGACGCCCGCTCCCCACAAGGCCC
923	1447	449	CCACTGACGCCCGCTCCCCACAAGGCCCACCCCCGCTTGCT
924	1447	164	CAGCAGGCCTGGGCCGCGTGCCCGCACCCCACACACGCGGG
925	1470	311	CCACCCCCGCTTGCTCTACTCTTTCTCTCACCTCGACCTTT
926	1470	328	CAGCAGGCGACACGGCTAGGCCTGCTGCGTTCCCAGCCCCC
927	1470	331	AGGCCTGCTGCGTTCCCAGCCCCCGCACTTCCCAGGAGCC
928	1470	340	CCTGCTGCGTTCCCAGCCCCCGCACTTCCCAGGAGCCGTA
929	1470	347	TTCCCAGCCCCCCGCACTTCCCAGGAGCCGTACTGCATTCT
930	1470	312	CCCCCCGCACTTCCCAGGAGCCGTACTGCATTCTGGGAGTA
931	1470	401	AGCAGGCGACACGGCTAGGCCTGCTGCGTTCCCAGCCCCCC
932	1470	193	GAGTATCACTGAGTGTTTCACGTTCGTTCGACAGCTCTTGT
933	1470	108	AGTGCAGGGTCGCCAACTGCCCGCTCCCAGAGGAGGCTGGG
934	1470	106	CGCCTCCCGCAGGCGCACCCCACTCCATTTACCTGTCCGGG
935	1470	66	CCCGCCTCCCGCAGGCGCACCCCACTCCATTTACCTGTCCG
936	1470	112	CTTTCCATCGACACCTCCGCCCTCCCTCCGCAGTTCTCTCC
937	1470	6	TCCCGCAGGCGCACCCCACTCCATTTACCTGTCCGGGCACC
938	1470	359	CAAATGCCGTATAGGAAGCCCAAGTCACCCCTGCACTGCCT
939	1470	11	CCCAGGAGCCGTACTGCATTCTGGGAGTAGTAGTTCCGGTT
940	1470	43	GCCGTATAGGAAGCCCAAGTCACCCCTGCACTGCCTCCTCG
941	1470	263	GCCTCCTCGCTCCACCCCAGCACCTTTCCATCGACACCTCC
942	1470	135	GCCCCGTCTACGCGTGGCCTCTTGGGAGTGGGAGCGCTCCT
943	1470	120	TTTACCTGTCCGGGCACCCTCTGAGGGCGCGCGGGCTCGAG
944	1470	200	GCGCACCCCACTCCATTTACCTGTCCGGGCACCCTCTGAGG
945	1470	374	GGTCGCCAACTGCCCGCTCCCAGAGGAGGCTGGGACCGGAC
946	1470	303	GCATTCTGGGAGTAGTAGTTCCGGTTGGAGTATCACTGAGT
947	1470	83	TCCAATGGCAGCAGGCGACACGGCTAGGCCTGCTGCGTTCC
948	1470	50	CGCCCTCCCTCCGCAGTTCTCTCCCCGCCTCCCGCAGGCGC
949	1470	46	CGCTCCACCCCAGCACCTTTCCATCGACACCTCCGCCCTCC

950	1470	146	TCCTCGCTCCACCCCAGCACCTTTCCATCGACACCTCCGCC
951	1470	232	GGGCACCCTCTGAGGGCGCGCGGGCTCGAGACGGAGGGACG
952	1470	97	GGACCGGACGCCGCTGACTTCCGCATGAAGCGCCCCGTCTA
953	1470	209	AGTTCTCTCCCCGCCTCCCGCAGGCGCACCCCACTCCATTT
954	1470	322	CTGCCCGCTCCCAGAGGAGGCTGGGACCGGACGCCGCTGAC
955	1470	152	ACGGCTAGGCCTGCTGCGTTCCCAGCCCCCCGCACTTCCCA
956	1470	28	CCTCTGAGGGCGCGCGGGCTCGAGACGGAGGGACGCGGGTC
957	1470	4	AGTCACCCCTGCACTGCCTCCTCGCTCCACCCCAGCACCTT
958	1470	192	GTCAAATGCCGTATAGGAAGCCCAAGTCACCCCTGCACTGC
959	1470	281	CAGTGCAGGGTCGCCAACTGCCCGCTCCCAGAGGAGGCTGG
960	1470	86	CTCTTGGGAGTGGGAGCGCTCCTCCAATGGCAGCAGGCGAC
961	1470	76	CCTCCCTCCGCAGTTCTCTCCCGCCTCCCGCAGGCGCACC
962	3162	215	ACACCTCCGCCCTCCCTCCGCAGTTCTCTCCCCGCCTCCCG
963	3162	206	ACAGGCCGCACCCAGCTTTTCTTCCGTTGCCCCAGTACGGA
964	3162	186	CTGATCCTCACAGGCCGCACCCAGCTTTTCTTCCGTTGCCC
965	3162	100	GACAGCTTATCATCGATAAGCTGATCCTCACAGGCCGCACC
966	3162	82	GTCTAAGAAACCATTATTATCATGACATTAACCTATAAAAA
967	3162	200	CGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTATCAT
968	3162	225	GATAAGCTGATCCTCACAGGCCGCACCCAGCTTTTCTTCCG
969	3162	149	CCCAGCTTTTCTTCCGTTGCCCCAGTACGGATACATATTTG
970	3164	132	TCACGAGGCCCTTTCGTCTTCAAGAATTCTCATGTTTGACA
971	3164	36	GGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAG
972	3164	269	CGGCGACCGAGTTGCTCTTGCCCGGCGTCAACACGGGATAA
973	3164	67	AAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTTG
974	3164	123	CACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTG
975	3164	59	CGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTT
976	3164	248	GGCGTCAACACGGGATAATACCGCGCCACATAGCAGAACTT
977	3164	90	AACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGA
978	3164	176	AGCAGAACTTTAAAAGTGCTCATCATTGGAAAACGTTCTTC
979	3164	72	GATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTT
980	3164	286	GATAATACCGCGCCACATAGCAGAACTTTAAAAGTGCTCAT
981	3164	30	CGACACGGAAATGTTGAATACTTGAGAATAGTGTATGCGGC
982	3164	266	TGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAACACG
983	3164	121	CGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATAC
984	3164	110	AACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTG
985	3164	22	CATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGA
986	3167	95	GAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCG
987	3167	102	AGGCGGAAGACCAGGAGCCCCGGGCGGCTCAGGATCAGGGC
988	3167	110	AGACCAGGAGCCCCGGGCGGCTCAGGATCAGGGCCAAGACA
989	3167	39	AGCCCCGGGCGGCTCAGGATCAGGGCCAAGACATAGAGATG
990	3167	52	CAAAGAAGAGGGGGTGATAACCATGGACGAGGACGGGGAAG
991	3167	92	GTGATAACCATGGACGAGGACGGGGAAGAGGACGAGGACGA
992	3167	151	AGGAGGCGGAAGACCAGGAGCCCCGGGCGGCTCAGGATCAG
993	3167	6	GTGTCCGGAGACCCCAAAAACGTTCCGGCGGCAGTGGACCT
994	3167	136	AGACCCCAAAAACGTTCCGGCGGCAGTGGACCTCAAAGAAG
995	3167	145	CAAGACATAGAGATGGTGTCCGGAGACCCCAAAAACGTTCC
996	3167	142	GAGATGGTGTCCGGAGACCCCAAAAACGTTCCGGCGGCAGT
997	3168	70	ATAGAGATGGTGTCCGGAGACCCCAAAAACGTTCCGGCGGC
998	3168	157	ATATGGAGGTAGTAAGACCTCCTTTACAACCTAAGGCGAG
999	3168	124	TCTCCCCTTTGGAATGGCCCCTGGACCCGGCCCACAACCTG
1000	3168	174	TATTCCACAATGTCGTCTTACACCATTGAGTCGTCTCCCCT
1001	3168	47	CCCCTGGACCCGGCCCACAACCTGGCCCGACGTAGAAAGGA
1002	3168	169	ACTTGGGTCGCCGGTGTGTTCGTATATGGAGGTAGTAAGAC

1003	3168	171	AATGGCCCCTGGACCCGGCCCACAACCTGGCCCGACGTAGA
1004	3168	94	TGGCCCCTGGACCCGGCCCACAACCTGGCCCGACGTAGAAA
1005	3168	103	TTACAACCTAAGGCGAGGAACTGCCCTTGCTATTCCACAAT
1006	3168	87	AAGGCGAGGAACTGCCCTTGCTATTCCACAATGTCGTCTTA
1007	3168	72	CCTCCCTTTACAACCTAAGGCGAGGAACTGCCCTTGCTATT
1008	3168	163	ATGGAGGTAGTAAGACCTCCCTTTACAACCTAAGGCGAGGA
1009	3168	80	CTTTGGAATGGCCCCTGGACCCGGCCCACAACCTGGCCCGA
1010	3168	97	AGTAAGACCTCCCTTTACAACCTAAGGCGAGGAACTGCCCT
1011	3168	28	CAACCTAAGGCGAGGAACTGCCCTTGCTATTCCACAATGTC
1012	3168	142	AAGGACTACCGACGAAGGAACTTGGGTCGCCGGTGTGTTCG
1013	3168	180	TACACCATTGAGTCGTCTCCCCTTTGGAATGGCCCCTGGAC
1014	3169	115	GACCCGGCCCACAACCTGGCCCGACGTAGAAAGGACTACCG
1015	3169	168	AGCTCCGCGCTCAACACCTTCTCGCGTTGGAAAACATTAGC
1016	3169	71	GTGAGCAATCAGACATGCGACGGCTTTAGCCTGGCCTCCTT
1017	3169	56	CCCAACATGGGGCAATTGGGCATACCCATGTTGTCACGTCA
1018	3169	178	CACCATTTTCGTCCTCCCAACATGGGGCAATTGGGCATACC
1019	3169	129	AGACATGCGACGGCTTTAGCCTGGCCTCCTTAAATTCACCT
1020	3169	77	CACCTTCTCGCGTTGGAAAACATTAGCGACATTTACCTGGT
1021	3169	119	ATGGGGCAATTGGGCATACCCATGTTGTCACGTCACTCAGC
1022	3169	94	CCGCGCTCAACACCTTCTCGCGTTGGAAAACATTAGCGACA
1023	3169	106	ACCCATGTTGTCACGTCACTCAGCTCCGCGCTCAACACCTT
1024	3169	112	ACGTCACTCAGCTCCGCGCTCAACACCTTCTCGCGTTGGAA
1025	3169	1	CTCAGCTCCGCGCTCAACACCTTCTCGCGTTGGAAAACATT
1026	3169	36	GCCTCCTTAAATTCACCTAACGTGCTGTTGGTGTATTTCTG
1027	3169	153	TTTCTGGCCATCTGTCTTGTCACCATTTTCGTCCTCCCAAC
1028	3169	197	AGCGACATTTACCTGGTGAGCAATCAGACATGCGACGGCTT
1029	3169	5	CCTGGCCTCCTTAAATTCACCTAACGTGCTGTTGGTGTATT
1030	3169	185	CCTTAAATTCACCTAACGTGCTGTTGGTGTATTTCTGGCCA
1031	3170	193	CGACGGCTTTAGCCTGGCCTCCTTAAATTCACCTAACGTGC
1032	3170	13	ACGTTTTCCAATGATGAGCACTTTTAAAGTTCTGCTATGTG
1033	3170	167	GGTCGCCGATTTCCGTGTCGCCCTTATTCCCTTTTTTGCGG
1034	3170	217	ATCCTTGAGAGTTTTCGCCCCGAAGAACGTTTTCCAATGAT
1035	3170	238	TAAAGTTCTGCTATGTGGCGCGGTATTATCCCGTGTTGACG
1036	3170	140	GGTATTATCCCGTGTTGACGCCGGGCAAGAGCAACTCGGTC
1037	3170	88	ATCGAACTGGATCTCAACAGCGGTAAGATCCTTGAGAGTTT
1038	3170	61	GCTGGTGAAAGTAAAAGATGCTGAAGATCAGTTGGGTGCAC
1039	3170	55	CCTTCCTGTTTTTGCTCACCCAGAAACGCTGGTGAAAGTAA
1040	3170	180	ATTTTGCCTTCCTGTTTTTGCTCACCCAGAAACGCTGGTGA
1041	3170	254	TTCGCCCCGAAGAACGTTTTCCAATGATGAGCACTTTTAAA
1042	3170	166	GACGCCGGGCAAGAGCAACTCGGTCGCCGATTTCCGTGTCG
1043	3170	42	GATCCTTGAGAGTTTTCGCCCCGAAGAACGTTTTCCAATGA
1044	3170	108	CCTTTTTTGCGGCATTTTGCCTTCCTGTTTTTGCTCACCCA
1045	3170	96	CTGAAGATCAGTTGGGTGCACGAGTGGGTTACATCGAACTG
1046	3171	250	AAGTAAAAGATGCTGAAGATCAGTTGGGTGCACGAGTGGGT
1047	3171	147	CCGCTCATGAGACAATAACCCCTACTGGGGCAACGGAAGAA
1048	3171	163	TGTCATGATAATAATGGTTTCTTAGACGTCAGGTGGCACTT
1049	3171	219	GTTTCTTAGACGTCAGGTGGCACTTTTCGGGGAAATGTGCG
1050	3171	208	TTTATTTTTCTAAATACATTCAAATATGTATCCGCTCATGA
1051	3171	71	ACCCCTATTTGTTTATTTTTCTAAATACATTCAAATATGTA
1052	3171	63	ATCGATGATAAGCTGTCAAACATGAGAATTCTTGAAGACGA
1053	3171	215	ATCAGCTTATCGATGATAAGCTGTCAAACATGAGAATTCTT
1054	3171	192	TTTGTTTATTTTTCTAAATACATTCAAATATGTATCCGCTC
1055	3171	235	GGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTTCTAAA

1056	3171	242	CATTCAAATATGTATCCGCTCATGAGACAATAACCCCTACT
1057	3171	97	ATATGTATCCGCTCATGAGACAATAACCCCTACTGGGGCAA
1058	3171	35	AATTCTTGAAGACGAAAGGGCCTCGTGATACGCCTATTTTT
1059	3171	189	GAAGAAAAGCTGGGTGCGGCCTGTGAGGATCAGCTTATCGA
1060	3173	147	TCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTTCT
1061	3173	81	CTCTTCTTTGAGGTCCACTGCCGCCGGACGTTTTTGGGGTC
1062	3173	96	GGGCTCCTGGTCTTCCGCCTCCTCGTCCTCGTCCTCTTCCC
1063	3173	88	CGCCTCCTCGTCCTCGTCCTCTTCCCCGTCCTCGTCCATGG
1064	3173	132	TGGTCTTCCGCCTCCTCGTCCTCGTCCTCTTCCCCGTCCTC
1065	3173	144	CATGGTTATCACCCCCTCTTCTTTGAGGTCCACTGCCGCCG
1066	3173	125	CCCCTCTTCTTTGAGGTCCACTGCCGCCGGACGTTTTTGGG
1067	3173	150	CCTCGTCCATGGTTATCACCCCCTCTTCTTTGAGGTCCACT
1068	3173	87	TTCTTTGAGGTCCACTGCCGCCGGACGTTTTTGGGGTCTCC
1069	3173	84	CTGGTCTTCCGCCTCCTCGTCCTCGTCCTCTTCCCCGTCCT
1070	3173	75	CTCCTGGTCTTCCGCCTCCTCGTCCTCGTCCTCTTCCCCGT
1071	3173	101	CGCCCGGGGCTCCTGGTCTTCCGCCTCCTCGTCCTCGTCCT
1072	3173	106	CCTCGTCCTCGTCCTCTTCCCCGTCCTCGTCCATGGTTATC
1073	3173	67	TCCTCGTCCTCTTCCCCGTCCTCGTCCATGGTTATCACCCC
1074	3173	24	TCCTGAGCCGCCCGGGGCTCCTGGTCTTCCGCCTCCTCGTC
1075	3175	33	GTTTTTGGGGTCTCCGGACACCATCTCTATGTCTTGGCCCT
1076	3175	77	AGGCCAGGCTAAAGCCGTCGCATGTCTGATTGCTCACCAGG
1077	3175	49	ATGTCGCTAATGTTTTCCAACGCGAGAAGGTGTTGAGCGCG
1078	3175	74	GTCGCATGTCTGATTGCTCACCAGGTAAATGTCGCTAATGT
1079	3175	168	TAAATGTCGCTAATGTTTTCCAACGCGAGAAGGTGTTGAGC
1080	3175	129	GGACGAAAATGGTGACAAGACAGATGGCCAGAAATACACCA
1081	3175	27	CGTGACAACATGGGTATGCCCAATTGCCCCATGTTGGGAGG
1082	3175	136	TTAAGGAGGCCAGGCTAAAGCGTCGCATGTCTGATTGCTC
1083	21046	128	ACATGGGTATGCCCAATTGCCCCCATGTTGGGAGGACGAAAA
1084	21046	8	CCCCTGCGCCCGCCCCCGCCCCCTCCCGCTCCCATTCTCT
1085	21046	66	GGGGAGTTTTGTTAACCGGACTACAGGGGCAACTCCGCCGC
1086	21046	127	TCAGGGATGGCTTTTGGGCTCTGCCCCTCGCTGCTCCCGGC
1087	21046	81	CCCCCTGCGCCCGCCCCCGCCCCCTCCCGCTCCCATTCTC
1088	21046	184	GGGCTCTGCCCCTCGCTGCTCCCGGCGTTTGGCGCCCGCGC
1089	21046	117	TTGCTTAACAACAGTAACGTCACACGGACTACAGGGGAGTT
1090	21046	93	CGCGCCCCCTCCCCCTGCGCCCGCCCCCGCCCCCCTCCCGC
1091	21046	69	TCGCTGCTCCCGGCGTTTGGCGCCCGCGCCCCCTCCCCCTG
1092	21046	95	GGGATGGCTTTTGGGCTCTGCCCCTCGCTGCTCCCGGCGTT
1093	21046	116	GCTGCTCCCGGCGTTTGGCGCCGCGCCCCCTCCCCCTGCG
1094	21046	37	CCGCGCCCCCTCCCCCTGCGCCGCCCCCGCCCCCCTCCCG
1095	21046	103	CAACTCCGCCGCAGGGCAGGCGCGGCGCCTCAGGGATGGCT
1096	21046	155	CGGCGTTTGGCGCCCGCGCCCCCTCCCCCTGCGCCCGCCCC
1097	21046	118	CGCTCCCATTCTCTGCCGGGCTTTGATCTTTGCTTAACAAC
1098	21046	122	GCGCCCCCTCCCCCTGCGCCCGCCCCCGCCCCCCTCCCGCT
1099	21046	121	CCCCTCCCCCTGCGCCCGCCCCCGCCCCCCCTCCCGCTCCCA
1100	21046	33	CCCCCTCCCCCTGCGCCCGCCCCCGCCCCCCCTCCCGCTCCC
1101	21046	25	GGGGCAACTCCGCCGCAGGGCAGGCGCGGCGCCTCAGGGAT
1102	21046	79	GGACTACAGGGGCAACTCCGCCGCAGGGCAGGCGCGGCGCC
1103	21046	162	TTGGGCTCTGCCCCTCGCTGCTCCCGGCGTTTGGCGCCCGC
1104	21046	22	ATTCTCTGCCGGGCTTTGATCTTTGCTTAACAACAGTAACG
1105	21046	131	ACCGGACTACAGGGGCAACTCCGCCGCAGGGCAGGCGCGGC
1106	21046	195	CTGCGCCCGCCCCCGCCCCCCTCCCGCTCCCATTCTCTGCC
1107	21127	76	CAGTAACGTCACACGGACTACAGGGGAGTTTTGTTAACCGG
1108	21127	116	GCCCCGCTCGGTTCGTTACTCTGTAGAGGCTGGCGACCAGC

1109	21127	136	CAAAAGAGAAAGTTCCCGAGCTTTACAACTCTCCGGGAAGC
1110	21127	153	CTTTACAACTCTCCGGGAAGCGTAGGGAACGTTTCCTCTCG
1111	21127	180	AAGCGTAGGGAACGTTTCCTCTCGGAAAGCTCTTCGCCGCG
1112	21127	172	AGCTCTTCGCCGCGATTTTCCCAGGGCTGCACTTGAATGAA
1113	21127	112	TCTCGGAAAGCTCTTCGCCGCGATTTTCCCAGGGCTGCACT
1114	21127	164	CCAGCAAAAGAGAAAGTTCCCGAGCTTTACAACTCTCCGGG
1115	21127	169	ACGTTTCCTCTCGGAAAGCTCTTCGCCGCGATTTTCCCAGG
1116	21127	57	TCCTCTCGGAAAGCTCTTCGCCGCGATTTTCCCAGGGCTGC
1117	21127	145	CGCTTGCCCTCCCCGCCACGCCCCGCTCGGTTCGTTACTCT
1118	21127	62	TCTCCGGGAAGCGTAGGGAACGTTTCCTCTCGGAAAGCTCT
1119	21127	151	GCCCTCCCCGCCACGCCCCGCTCGGTTCGTTACTCTGTAGA
1120	21127	53	GGAAGCGTAGGGAACGTTTCCTCTCGGAAAGCTCTTCGCCG
1121	21127	59	GCCACGCTTGCCCTCCCCGCCACGCCCCGCTCGGTTCGTTA
1122	21135	125	CTTGCCCTCCCCGCCACGCCCCGCTCGGTTCGTTACTCTGT
1123	21135	377	CGCGGTCGCGCTTTCTCTGCCCTCCGCCGGGTGGACCTGGA
1124	21135	484	TTCTTTCTGCCCTCTGCAGACATCCCCGATTGAAAGAACCA
1125	21135	491	TGCCCCCGCCACAACCCACCCCGCTTTCGTAGTTTTCATTT
1126	21135	480	GCCACAACCCACCCCGCTTTCGTAGTTTTCATTTAGAAAAT
1127	21135	383	CAACTGCCCCCGCCACAACCCACCCCGCTTTCGTAGTTTTC
1128	21135	324	CTGCCCTCTGCAGACATCCCCGATTGAAAGAACCAGAGAGG
1129	21135	533	GAGGAGGGCGGGATGTGCCACACATCTTTGACCTCAGGTTT
1130	21135	448	GAGCTTTTAAAAATGTCCTGCGGGAAGGGAAAGGCCACATC
1131	21135	173	GATCATCAGTCACCGAAGGTCCTACAGGGCCACAACTGCCC
1132	21135	147	AGCGGTCGGCGCGCCTGGAGCAGCCAGGCGGGCAGTGGACT
1133	21135	478	TCCGCCGGGTGGACCTGGAGCGCTTGAGCGGTCGGCGCGCC
1134	21135	61	CACAACTGCCCCCGCCACAACCCACCCCGCTTTCGTAGTTT
1135	21135	36	ATTGGGAGCAACCACTGAGACTCATTATATAACACTCGTTT
1136	21135	232	ACATCTTCACGCCTTCGCGCCTGGCATTGGGAGCAACCACT
1137	21135	406	GTGTGGGAGAGCGGTGGCGGCGGGTACATGCACGTGAAGCC
1138	21135	159	TTGAAAGAACCAGAGAGGCTCTGAGAAACCTCTGGAAACTT
1139	21135	434	ACCTGGAGCGCTTGAGCGGTCGGCGCGCCTGGAGCAGCCAG
1140	21135	40	CCTCTGGAAACTTAGATCATCAGTCACCGAAGGTCCTACAG
1141	21135	140	CTTCACGCCTTCGCGCCTGGCATTGGGAGCAACCACTGAGA
1142	21135	322	TCTGCCCTCCGCCGGGTGGACCTGGAGCGCTTGAGCGGTCG
1143	21135	131	GAGAGGAGGGCGGGATGTGCCACACATCTTTGACCTCAGGT
1144	21135	336	CGCGCTTTCTCTGCCCTCCGCCGGGTGGACCTGGAGCGCTT
1145	21135	345	ATGTGCCACACATCTTTGACCTCAGGTTTCTAACGCCTGTT
1146	21135	286	ACATCTTTGACCTCAGGTTTCTAACGCCTGTTTTCTTTCTG
1147	21135	473	TGTCCATAAGTATTTCAATGCCGGTAGGGACGGCAAGAGAG
1148	21135	381	AGGGCCACAACTGCCCCCGCCACAACCCACCCCGCTTTCGT
1149	21135	196	TTCTGCCCTCTGCAGACATCCCCGATTGAAAGAACCAGAGA
1150	21135	449	CCAGGCGGGCAGTGGACTAGCTGCTGGACCAGGGAGGTGTG
1151	21135	33	ATCATCAGTCACCGAAGGTCCTACAGGGCCACAACTGCCCC
1152	21135	472	GCCACATCTTCACGCCTTCGCGCCTGGCATTGGGAGCAACC
1153	21135	103	CAGGGCCACAACTGCCCCCGCCACAACCCACCCCGCTTTCG
1154	21135	176	CTTCTTGCAACCCTGCGGGCCGCGCGGTCGCGCTTTCTCTG
1155	21135	469	GGTCGGCGCGCCTGGAGCAGCCAGGCGGGCAGTGGACTAGC
1156	21135	530	CTACAGGGCCACAACTGCCCCCGCCACAACCCACCCCGCTT
1157	21135	83	ATAGAGCTTTTAAAAATGTCCTGCGGGAAGGGAAAGGCCAC
1158	21135	270	CATTATATAACACTCGTTTTCTTCTTGCAACCCTGCGGGCC
1159	21135	181	GCCATTGCGAGAACTTTGTCCATAAGTATTTCAATGCCGGT
1160	21135	192	GCGCGCCTGGAGCAGCCAGGCGGGCAGTGGACTAGCTGCTG
1161	21135	452	GCAGCCAGGCGGGCAGTGGACTAGCTGCTGGACCAGGGAGG

1162	21135	49	ATCAGTCACCGAAGGTCCTA**C**AGGGCCACAACTGCCCCCGC
1163	21135	269	TTCGCGCCTGGCATTGGGAG**C**AACCACTGAGACTCATTATA
1164	21135	238	AGCCATTGCGAGAACTTTGT**C**CATAAGTATTTCAATGCCGG
1165	21135	424	GAGAGCGGTGGCGGCGGGTA**C**ATGCACGTGAAGCCATTGCG
1166	21135	23	CTCTGAGAAACCTCTGGAAA**C**TTAGATCATCAGTCACCGAA
1167	21135	77	GAAGGGAAAGGCCACATCTT**C**ACGCCTTCGCGCCTGGCATT
1168	21135	124	GAGACTCATTATATAACACT**C**GTTTTCTTCTTGCAACCCTG
1169	21135	470	GCGCGGTCGCGCTTTCTCTG**C**CCTCCGCCGGGTGGACCTGG
1170	21135	458	TACAGGGCCACAACTGCCCC**C**GCCACAACCCACCCCGCTTT
1171	21139	360	CACCGAAGGTCCTACAGGGC**C**ACAACTGCCCCCGCCACAAC
1172	21139	83	GAAAGTGCGCTTCTGAGACT**C**TTGACAGCCATTTCGTTCCC
1173	21139	279	TTATCACTCCACCGCGCGCA**C**TTTCCGCAGGAGCGATGTGA
1174	21139	112	CAGCTTGGAGCTGGCTAGGC**C**TTGTTTTGGAGGGGATGGGT
1175	21139	254	GGAGCGATGTGATCCGTTAT**C**ATAACTGCGGACCTGGGGTT
1176	21139	378	AGAAGGCGACTCTGGGTCAC**C**TCTCCAGCTTGGAGCTGGCT
1177	21139	13	CTCTTGACAGCCATTTCGTT**C**CCTTCCAAGCCAGATGGAGA
1178	21139	471	GTTTTCTTCCAGAGGCTTAA**C**TGGCAGCTGGAACGAGTTCC
1179	21139	502	CAGGATGGTATAGGGAGTGG**C**CGTAGTATTTTTCCAGTGA
1180	21139	33	TTTCCAGTGACGATGTCTCT**C**CATTGTTTTCTTCCAGAGGC
1181	21139	278	CTGGCAGCTGGAACGAGTTC**C**TCCAACAAGAATTTAGACGC
1182	21139	228	CCAGCTTGGAGCTGGCTAGG**C**CTTGTTTTGGAGGGGATGGG
1183	21139	67	ACTCGAGACGAAAGGCAGGA**C**ATGACAGAAGGCGACTCTGG
1184	21139	253	TAGACGCTAGGTCCAATTAT**C**ACTCCACCGCGCGCACTTTC
1185	21139	262	CAGAAGGCGACTCTGGGTCA**C**CTCTCCAGCTTGGAGCTGGC
1186	21139	90	ACTCTGGGTCACCTCTCCAG**C**TTGGAGCTGGCTAGGCCTTG
1187	21139	134	TCCACCGCGCGCACTTTCCG**C**AGGAGCGATGTGATCCGTTA
1188	21139	117	TAACTGCGGACCTGGGGTTC**C**ACGTGGAAGACGATTGGGAT
1189	21139	334	GATGTGATCCGTTATCATAA**C**TGCGGACCTGGGGTTCCACG
1190	21139	315	TCAGGGTTACCCGGAGGAAC**C**ACGGGGAAAGTGCGCTTCTG
1191	21139	426	TGGGTAGATGAAAAGTGAGT**C**AGGGTTACCCGGAGGAACCA
1192	21139	35	GTGTTGAAAGGCCACGACTT**CC**CTCAGTTTCTCCATCTGGG
1193	21139	211	GGCAGCTGGAACGAGTTCCT**C**CAACAAGAATTTAGACGCTA
1194	21139	349	CTGAGTGGGGTTAGTGGACT**C**GAGACGAAAGGCAGGACATG
1195	21139	32	GGAACCACGGGGAAAGTGCG**C**TTCTGAGACTCTTGACAGCC
1196	21139	486	ACTGGCAGCTGGAACGAGTT**C**CTCCAACAAGAATTTAGACG
1197	21139	124	AGTGGCCCGTAGTATTTTTC**C**AGTGACGATGTCTCTCCATT
1198	21139	379	TCCGTTATCATAACTGCGGA**C**CTGGGGTTCCACGTGGAAGA
1199	21139	71	TCTTGACAGCCATTTCGTTC**C**TTCCAAGCCAGATGGAGAC
1200	21139	365	CGCTAGGTCCAATTATCACT**C**CACCGCGCGCACTTTCCGCA
1201	21139	185	TGCGCTTCTGAGACTCTTGA**C**AGCCATTTCGTTCCCTTCCA
1202	21139	400	GCGGTGGGGGTGGGAGCAGA**C**AGAGTCTGAGTGGGGTTAGT
1203	21139	20	CTTCCAAGCCAGATGGAGAC**C**CAAGAGTGTTGAAAGGCCAC
1204	21139	87	TCCAGAGGCTTAACTGGCAG**C**TGGAACGAGTTCCTCCAACA
1205	21139	245	CACTCCACCGCGCGCACTTT**C**CGCAGGAGCGATGTGATCCG
1206	21139	418	GGACATGACAGAAGGCGACT**C**TGGGTCACCTCTCCAGCTTG
1207	21148	368	ACCCAAGAGTGTTGAAAGGC**C**ACGACTTCCCTCAGTTTCTC
1208	21148	263	CAGCAGCTCCGCCACGCGGG**C**GCTGCCCATCATCATGACCT
1209	21148	273	GTGCAGCACCACCAGCGTGT**C**CAGGAAGCCCTCCCGGGCAG
1210	21148	345	ACCAGCGTGTCCAGGAAGCC**C**TCCCGGGCAGCATCATGCAC
1211	21148	240	TTGGGCTCCGCGCCGTGGAG**C**AGCAGCAGCTCCGCCACGCG
1212	21148	391	ACGTCCAGCCGCGCCCCGGC**C**CGGTGCAGCACCACCAGCGT
1213	21148	158	TGCCCATCATCATGACCTGC**C**AGAGAGAGCAAAGTGGTCAG
1214	21148	446	GGCTGTGCGCAGGTACCCTG**C**AACGTCGCGGTGGCCCCGCT

1215	21148	131	CAGGTATGGGAGATGCCGGC**C**GGGGCAAGGCAGGTGGAGCC
1216	21148	99	CTGGGGAACCTGGCGTCAGT**C**CCCCGTGGCTGTGCGCAGGT
1217	21148	387	ATTGGGTAAGAAAATAAAGT**C**GTTGTGGGCGGCTGGGGAAC
1218	21148	173	GCGCTGCCCATCATCATGAC**C**TGCCAGAGAGAGCAAAGTGG
1219	21148	231	CCCTGCAACGTCGCGGTGGC**C**CGCTCCTCGGCCAAGTCCA
1220	21148	337	GCATCGCGCACGTCCAGCCG**C**GCCCCGGCCCGGTGCAGCAC
1221	21148	466	CTGCGCAGTTGGGCTCCGCG**C**CGTGGAGCAGCAGCAGCTCC
1222	21148	124	CGGGGCAAGGCAGGTGGAGC**C**ATTTAAAGGACAGGCTTGCA
1223	21148	161	TGGGCGGCTGGGGAACCTGG**C**GTCAGTCCCCCGTGGCTGTG
1224	21148	7	TGTGCGCAGGTACCCTGCAA**C**GTCGCGGTGGCCCCGCTCCT
1225	21148	272	GGAGCCATTTAAAGGACAGG**C**TTGCAGGCTTACAGGCTTTC
1226	21148	465	CACCAGCGTGTCCAGGAAGC**C**CTCCCGGGCAGCATCATGCA
1227	21148	330	CCGGGGCAAGGCAGGTGGAG**C**CATTTAAAGGACAGGCTTGC
1228	21148	235	GCAGGGTCTGCGCAGTTGGG**C**TCCGCGCCGTGGAGCAGCAG
1229	21148	246	CGCGCACGTCCAGCCGCGCC**C**GGCCCGGTGCAGCACCACC
1230	21148	251	AGCCGCGCCCCGGCCCGGTG**C**AGCACCACCAGCGTGTCCAG
1231	21148	252	CGCCCCGGCCCGGTGCAGCA**C**CACCAGCGTGTCCAGGAAGC
1232	21148	233	GCCCCGGCCCGGTGCAGCAC**C**ACCAGCGTGTCCAGGAAGCC
1233	21148	277	ATCGCGCACGTCCAGCCGCG**C**CCCGGCCCGGTGCAGCACCA
1234	21148	48	GCGTGTCCAGGAAGCCCTCC**C**GGGCAGCATCATGCACCGGT
1235	21148	119	CGCCGCTCCCCGTTGGCAGC**C**TTGGTCGAATTAGGTGGGTG
1236	21148	19	CGTTGTGGGCGGCTGGGGAA**C**CTGGCGTCAGTCCCCCGTGG
1237	21148	145	AGGACAGGCTTGCAGGCTTA**C**AGGCTTTCCGCCGCTCCCCG
1238	21148	11	GTCAGTCCCCCGTGGCTGTG**C**GCAGGTACCCTGCAACGTCG
1239	21148	451	CCATTTAAAGGACAGGCTTGCAGGCTTACAGGCTTTCCGCC
1240	21148	370	ATGGGAGATGCCGGCCGGGG**C**AAGGCAGGTGGAGCCATTTA
1241	21152	510	GCAGCTCCGCCACGCGGGCG**C**TGCCCATCATCATGACCTGC
1242	21152	441	CCGGAGGCGCGGGACGCCGC**C**TCCACGTGAGCCGCGCTCCT
1243	21152	485	CGAGTGGGACGTTAACTGGC**C**AATAGTTTGCAACTGCCGGT
1244	21152	271	CACGCGCAGCCTACTCAGCG**C**TGCTCCGGAGGCGCGGGACG
1245	21152	264	CATTTTCTGCAGTCAGCGTT**C**AAAAAAAGTACGAAAACCAT
1246	21152	512	CCTATGCCATTTTCTGCAGT**C**AGCGTTCAAAAAAAGTACGA
1247	21152	471	GGAGGCGCGGGACGCCGCCT**C**CACGTGAGCCGCGCTCCTCC
1248	21152	214	CAACTGCCGGTCAACACGCG**C**AGCCTACTCAGCGCTGCTCC
1249	21152	179	TGCACACACACACACACACA**C**ACACACTTTCCTCCCTCTTC
1250	21152	515	TCACGGCCGTGATCGTTTCT**C**CGAAACAGTTAGATCGCACA
1251	21152	490	GGCGCGGGACGCCGCCTCCA**C**GTGAGCCGCGCTCCTCCCAG
1252	21152	183	GCAGCCTACTCAGCGCTGCT**C**CGGAGGCGCGGGACGCCGCC
1253	21152	347	GAGTCCTAACCGGGAACCTT**C**TGGTTGACCGAGCACACACA
1254	21152	241	AATTTATCCAAACACTTAAG**C**AAGGAGAGGATCCTAAAATC
1255	21152	20	TTTCCTCCCTCTTCCCCCAC**C**TCCCTATGCCATTTTCTGCA
1256	21152	339	CTCAGAGCTACGACTAGTGA**C**TATCCGCTCACATGGGGCAT
1257	21152	389	GGACGGCGAATTTATCCAAA**C**ACTTAAGCAAGGAGAGGATC
1258	21152	619	AAAAACGAAGGCGGAAGGGG**C**GAGAAGAACGGGGTGGAGTT
1259	21152	367	GGCCCTGGCTGGGGTTGAGA**C**TGCAGGAGTAACTTCGACTG
1260	21152	480	CAAGGAGAGGATCCTAAAAT**C**GAAAAACGAAGGCGGAAGGG
1261	21152	533	GTCAACACGCGCAGCCTACT**C**AGCGCTGCTCCGGAGGCGCG
1262	21152	325	CACGTGAGCCGCGCTCCTCC**C**AGTGCCCGGGACGGTGTCGG
1263	21152	478	ACTGAACCGATTACGGACGG**C**GAATTTATCCAAACACTTAA
1264	21152	225	CGGTCAACACGCGCAGCCTA**C**TCAGCGCTGCTCCGGAGGCG
1265	21152	196	ACACACACACACACACTTTC**C**TCCCTCTTCCCCCACCTCCC
1266	21152	14	GGGCTCTAGTCGTGTGTCAG**C**ACACACACACACACACACAC
1267	21152	506	TAACTTCTCGGACTAACCTA**C**GTGTTGTTCTTCTCAGGGAC

1268	21152	224	TGCTCCGGAGGCGCGGGACG**C**CGCCTCCACGTGAGCCGCGC
1269	21152	430	CACACACACACACACACTTT**C**TCCCTCTTCCCCCACCTCC
1270	21152	240	GGGTGGCGGAGCGAGTGGGA**C**GTTAACTGGCCAATAGTTTG
1271	21152	1	CTTTCCTCCCTCTTCCCCCA**C**CTCCCTATGCCATTTTCTGC
1272	21152	457	GAGACTGCAGGAGTAACTTC**C**GGGCTCGATAACTACGGCGA
1273	21152	303	TGGCCAATAGTTTGCAACTG**C**CGGTCAACACGCGCAGCCTA
1274	21152	198	GAAAACCATCGGGTAATTTC**C**AACTGAACCGATTACGGACG
1275	21152	202	TCGGCTTGTGTATAAGAGCA**C**ACACACACACACACACACAC
1276	21152	18	CTGCCAATCTGAAGCACACA**C**ACACACACACACACACACTT
1277	21152	566	TTCTCGGTAAAAGCTCTGTC**C**GGCTTCGTCAAGGCTACGCC
1278	21152	335	GGTGTCGGGGGCGGGCTGCA**C**GGCGAGAAGGGCAAAATAAA
1279	21152	589	TTACGGACGGCGAATTTATC**C**AAACACTTAAGCAAGGAGAG
1280	21166	25	CGAGAAGGGCAAAATAAAAC**C**AGCCCGAGAGGCCCTGGCTG
1281	21166	281	CCCGGGAGATGGAGCGGCGC**C**GCCGCCGCCACCACGTCTGC
1282	21166	251	GCGCCCCTTTTCTTCCTCCG**C**CCAGGGTCCGCGCGGGCCCG
1283	21166	56	CAGGATCCGTGCGGACCCAT**C**CCCGTACACGCGCCCCTTTT
1284	21166	124	CCACGTCTGCGGTCCTGAGC**C**CCCAGCGGGCGAGAGAGCGG
1285	21166	237	CTGCGCGTCCGCTCGGGTTG**C**TGTGCGCCGGAGCATGCTCG
1286	21166	22	CGGGTGTAGACGTGCAGGAT**C**GTGCGGACCCATCCCCGTA
1287	21166	197	GGGCCCGGGAGATGGAGCGG**C**GCCGCCGCCGCCACCACGTC
1288	21166	36	GCTGGCGCGCGGCGGCAGGG**C**CTCGAAGCTGAAGCCCTCGC
1289	21166	90	GAGCGGCGCCGCCGCCGCCA**C**CACGTCTGCGGTCCTGAGCC
1290	21166	49	AGAGCGGACTGGTCCAAGAG**C**TGCGAGGCCAGTGCTGCGCG
1291	21166	34	GCCGCCACCACGTCTGCGGT**C**CTGAGCCCCCAGCGGGCGAG
1292	21166	131	TGGAGCGGCGCCGCCGCCGC**C**ACCACGTCTGCGGTCCTGAG
1293	21166	1	TCCGCTCGGGTTGCTGTGCG**C**GGAGCATGCTCGTGGGCCT
1294	21166	272	TCCTCCGCCCAGGGTCCGCG**C**GGGCCCGGGAGATGGAGCGG
1295	21166	149	CCCGTACACGCGCCCCTTTT**C**TTCCTCCGCCCAGGGTCCGC
1296	21166	198	CGCCGGAGCATGCTCGTGGG**C**CTCCGGTGTGGACGCGGGGG
1297	21166	153	CTGGCGCGCGGCGGCAGGGC**C**TCGAAGCTGAAGCCCTCGCG
1298	21166	205	GGAGCATGCTCGTGGGCCTC**C**GGTGTGGACGCGGGGGTTTC
1299	21166	253	GCGGCGGCAGGGCCTCGAAG**C**TGAAGCCCTCGCGGGTGTAG
1300	21166	231	GGATCCGTGCGGACCCATCC**C**CGTACACGCGCCCCTTTTCT
1301	21166	137	CCCTCGCGGGTGTAGACGTG**C**AGGATCCGTGCGGACCCATC
1302	21166	252	CGGGTTGCTGTGCGCCGGAG**C**ATGCTCGTGGGCCTCCGGTG
1303	21166	178	AGGATCCGTGCGGACCCATC**C**CCGTACACGCGCCCCTTTTC
1304	21166	292	TGGACGCGGGGGTTTCGCAG**C**TGGCGCGCGGCGGCAGGGCC
1305	21166	30	CTTCCTCCGCCCAGGGTCCG**C**GCGGGCCCGGGAGATGGAGC
1306	21166	19	GAGATGGAGCGGCGCCGCCG**C**CGCCACCACGTCTGCGGTCC
1307	21166	112	CGCGGGCCCGGGAGATGGAG**C**GGCGCCGCCGCCGCCACCAC
1308	21166	58	GCGAGGCCAGTGCTGCGCGT**C**CGCTCGGGTTGCTGTGCGCC
1309	21166	99	ACGTCTGCGGTCCTGAGCCC**C**CAGCGGGCGAGAGAGCGGAC
1310	21166	200	TGGTCCAAGAGCTGCGAGGC**C**AGTGCTGCGCGTCCGCTCGG
1311	21166	59	GGCGCGCGGCGGCAGGGCCT**C**GAAGCTGAAGCCCTCGCGGG
1312	21206	28	CGTCTGCGGTCCTGAGCCCC**C**AGCGGGCGAGAGAGCGGACT
1313	21206	267	GCAGCGGGAAGTGCGCTGTG**C**AGGAGCCAGACGTCTCAGCC
1314	21206	187	CGGGAGCGGGGCCAGGAGCG**C**TCCGCGGCCGGAGAAGGGCA
1315	21206	112	TGCCTCCGCTGCCATCTGCG**C**TGTCCTTGGCGACTACGCCT
1316	21206	129	GGCGCGGGCAGGATTTGGGG**C**TGCGCCGAGGGGCGTCCCGA
1317	21206	192	GGGCTGCGCCGAGGGGCGTC**C**GACCTGGCCCTTTGCCACG
1318	21206	216	CCGCTGCCATCTGCGCTGTC**C**TTGGCGACTACGCCTTCACC
1319	21206	206	GCGACTACGCCTTCACCCCC**C**TGGGTGCGTTTCAGCGGTCC
1320	21206	23	GCTGTCCTTGGCGACTACGC**C**TTCACCCCCCTGGGTGCGTT

1321	21206	172	GAAGGGCAGCGGGAAGTGCGCTGTGCAGGAGCCAGACGTCT
1322	21206	96	AGGTTCCGGCTCCCATGCCTCCGCTGCCATCTGCGCTGTCC
1323	21206	265	GCCTGAGCGGGGCTGGGGCGCGGGCAGGATTTGGGGCTGCG
1324	21206	276	GGCGGGAGCGGGGCCAGGAGCGCTCCGCGGCCGGAGAAGGG
1325	21206	161	GGCCAGGAGCGCTCCGCGGCCGGAGAAGGGCAGCGGGAAGT
1326	21206	157	TTTGCCACGGTAGGTTCCGGCTCCCATGCCTCCGCTGCCAT
1327	21206	78	GCCCTTTGCCACGGTAGGTTCCGGCTCCCATGCCTCCGCTG
1328	21206	215	AGAGGTGGCAGGGGCGCGGCCTGAGCGGGGCTGGGGCGCGG
1329	21206	148	GGCGACTACGCCTTCACCCCCCTGGGTGCGTTTCAGCGGTC
1330	21206	212	CCCGACCTGGCCCTTTGCCACGGTAGGTTCCGGCTCCCATG
1331	21206	128	CTTGGCGACTACGCCTTCACCCCCCTGGGTGCGTTTCAGCG
1332	21206	34	GGGGCTGCGCCGAGGGGCGTCCGACCTGGCCCTTTGCCAC
1333	21206	139	GGAAGTGCGCTGTGCAGGAGCCAGACGTCTCAGCCCGTGTG
1334	21206	158	GAGGGGCGTCCCGACCTGGCCCTTTGCCACGGTAGGTTCCG
1335	21210	46	CCCTTTGCCACGGTAGGTTCCGGCTCCCATGCCTCCGCTGC
1336	21210	109	ACGGAAGCCTGGGGTCCCCACCGCGCGTTCATCAGGTTCGG
1337	21226	43	TGCGCAGAGGTAACACGTCACATCGCATGTTCCTTTTGGCG
1338	21226	154	ACCGCAGCGCCCCGGTGGGTCCGGGCGGGCCGGACGCGCC
1339	21226	173	CAGGAAGCACGACTGGGCGCCTTAGGACGTCCGGGCAGACG
1340	21226	113	CCTTAGGACGTCCGGGCAGACGCGGCCCCCGAGAATTTTTC
1341	21226	97	CGAGCTGGAGACCCCGAAAACCAGGGCCACTCGGGGAGTGT
1342	21226	44	GGTCCGAGGCGCAAGGCGAGCTGGAGACCCCGAAAACCAGG
1343	21226	8	CCGCAGCGCCCCGGTGGGTCCGGGCGGGCCGGACGCGCCT
1344	21226	13	CGCGGCCCCCGAGAATTTTTCTAAGCCCTGCGCAGACCGCA
1345	21226	88	CCCCCGAGAATTTTTCTAAGCCTGCGCAGACCGCAGCGCC
1346	21226	32	AAGGGCGCGGGTCCGAGGCGCAAGGCGAGCTGGAGACCCCG
1347	21226	182	GCCCTGCGCAGACCGCAGCGCCCCGGTGGGTCCCGGGCGGG
1348	21226	165	GTCCGGGCAGACGCGGCCCCCGAGAATTTTTCTAAGCCCTG
1349	21226	106	ACTGGGCGCCTTAGGACGTCCGGGCAGACGCGGCCCCCGAG
1350	21226	141	CGCAAGGCGAGCTGGAGACCCCGAAAACCAGGGCCACTCGG
1351	21226	119	ACTCGGGGAGTGTCAGGAAGCACGACTGGGCGCCTTAGGAC
1352	21226	20	GGAGACCCCGAAAACCAGGGCCACTCGGGGAGTGTCAGGAA
1353	21226	104	GAATTTTTCTAAGCCCTGCGCAGACCGCAGCGCCCCGGTGG
1354	21226	175	GGCGCAAGGCGAGCTGGAGACCCCGAAAACCAGGGCCACTC
1355	21226	134	TTAGGACGTCCGGGCAGACGCGGCCCCCGAGAATTTTTCTA
1356	21226	65	CAGGGCCACTCGGGGAGTGTCAGGAAGCACGACTGGGCGCC
1357	21226	178	CGGGCGGGCCGGACGCGCCTCCCAAGGGCGCGGGTCCGAGG
1358	21251	66	GGACGTCCGGGCAGACGCGGCCCCCGAGAATTTTTCTAAGC
1359	21251	74	GGAGTGAGGAGGCCCCAGTCCCCTTTCACCAAGCCCGTCCT
1360	21251	88	GAGGCCCCAGTCCCCTTTCACCAAGCCCGTCCTCCCCTTCC
1361	21251	84	CTTTCACCAAGCCCGTCCTCCCCTTCCCGCTGCCACGACAC
1362	21251	97	TCCCCTTTCACCAAGCCCGTCCTCCCCTTCCCGCTGCCACG
1363	21251	95	AGCCCGTCCTCCCCTTCCCGCTGCCACGACACTGGTGCCTG
1364	21251	68	CAAGCCCGTCCTCCCCTTCCCGCTGCCACGACACTGGTGCC
1365	21251	34	AGTGAGGAGGCCCCAGTCCCCTTTCACCAAGCCCGTCCTCC
1366	21251	179	CTGATTTCAGGGTGAGGGAGCTGGCAGCCCCAGGAGTGAGG
1367	21251	75	TCTAGAAAGGATCCTGGGGTCCGATTGAGAAGCTGGCTTGA
1368	21251	115	AGGCCCCAGTCCCCTTTCACCAAGCCCGTCCTCCCCTTCCC
1369	21259	188	CGCTGCCACGACACTGGTGCCTGCAGCCGTGCCAGCTAGGA
1370	21259	268	ACCTCTGCCTTGGCCGCCCCCTCTGAGAAGTGGGTGAAGCG
1371	21259	108	TGCTGCGTGTGGGTCGGAGCCGGGGACTCAGGGAGGATCGT
1372	21259	75	CCCTGCCCCAGTCCCAGCATCTGGGAAAGGAAAAAGGTGGG
1373	21259	305	GTGACCTAGTAGGGTTCAGCCTGGGGAGCCCCTCCCTGCCC

1374	21259	86	TCGTTCTGCACGGCTGGGGA**C**AGCGGTGTGTGCGCGTGGGT
1375	21259	59	GGGTTCAGCCTGGGGAGCCC**C**TCCCTGCCCCCGTCCCAGCA
1376	21259	566	TTGCCTCGCTTCTAGGGTGA**C**CTAGTAGGGTTCAGCCTGGG
1377	21259	317	GCCACCCTTCCTTGGTTTTG**C**CGGTGCATGTTTTCTGAAGT
1378	21259	89	GCTGGGGACAGCGGTGTGTG**C**GCGTGGGTGTGTACGCGTGG
1379	21259	333	TTCAGCCTGGGGAGCCCCTC**C**CTGCCCCAGTCCCAGCATCT
1380	21259	50	TGTGCGCGTGGGTGTGTACG**C**GTGGGTGTGTGCACGTGGGT
1381	21259	138	AAGAGAAGCTCGCCTCGCTT**C**TAGGGTGACCTAGTCGGGTT
1382	21259	43	AAAATGGTGGAGGGGGGACC**C**CTGAGGCCCGGAGCTGCTTG
1383	21259	505	AAAACAGAAGAGAAGCTTGC**C**TTGCTTCTAGGGTGACCTAG
1384	21259	459	TGTGTGCGTGTGGGTGTGTG**C**ATGCGTGTACACACAGCTGC
1385	21259	237	CATGGGCGTGCAAGTGGGTG**C**GTGTGCATGGGGGTGTGCAC
1386	21259	95	CAAAACGACTGCGTGGGAAG**C**GTTTAGCGAGTGCTGCGTGT
1387	21259	225	CTGGGGAGCCCCTCCCTGCC**C**CGTCCCAGCATCTGGGAAA
1388	21259	592	AGCGCAACCCAGCAAAACGA**C**TGCGTGGGAAGCGTTTAGCG
1389	21259	178	CATGTTTTCTGAAGTTTCTA**C**AGGGGCTCAGGGGAGCGGA
1390	21259	16	GATCCCAGACACCTCTGCCT**C**GGCCGCCCCCTCTGAGAAGT
1391	21259	552	CTACCAGGGGCTCAGGGGCG**C**CGAAGAAAAACAGAAGAGAA
1392	21259	161	GAACCCGGGACGCAGCCACC**C**TTCCTTGGTTTTGCCGGTGC
1393	21259	96	GAGGCCCGGAGCTGCTAGAT**C**CCCGACACCTCTGCCTAGGC
1394	21259	155	TGGGGAGCCCCTCCCTGCCC**C**GGTCCCAGCATCTGGGAAAG
1395	21259	293	ACCCCTGAGGCCGGGAGCTG**C**TTGATCCCTGACACCTCTGC
1396	21259	207	ACTCAGGGAGGATCGTTCTG**C**ACGGCTGGGGACAGCGGTGT
1397	21259	157	CCTCTGAGAAGTGGGTGAAG**C**GCAACCCAGCAAAACGACTG
1398	21259	253	CCCTGAGGCCCGGAGCTGCT**C**GATCCCCGACACCTCTGCCT
1399	21259	331	GAAGCGTTTAGCGAGTGCTG**C**GTGTGGGTCGGAGCCGGGGA
1400	21259	465	TGTGTGCGCGTGGGTGTGTA**C**GCGTGGGTGTGTGCACGTGG
1401	21259	267	CGTGCAAGTGGGTGCGTGTG**C**ATGGGGGTGTGCACGTGGGT
1402	21259	27	GTGCTGCGTGTGGGTCGGAG**C**GGGGACTCAGGGAGGATCG
1403	21259	477	TCAGGGGTGCGGAAGAAAAA**C**AGAAGAGAAGCTCGCCTAGC
1404	21259	47	TGCGTGTGCATGGGGGTGTG**C**ACGTGGGTGTGTGCGTGTGG
1405	21259	228	CAGAAGAGAAGCTCGCCTCG**C**TTCTAGGGTGACCTAGTCGG
1406	21285	184	GCAACCCAGCAAAACGACTG**C**GTGGGAAGCGTTTAGCGAGT
1407	21285	325	TGCTCAACTGCCTGTGCGAG**C**TCTCCAAGGAGGACGGCAAG
1408	21285	287	GAGGGGAAAGGGCCGCGTCC**C**CGCGCGCGCGCGACGTGCA
1409	21285	205	CCAACCCGGGGCCGCGGTGC**C**TCCTGCGCGTCCCCCCGGAG
1410	21285	171	TCTCCAAGGAGGACGGCAAG**C**CCCTCTTCGCCTGGTGAGCC
1411	21285	224	GACTCGCTGCTGCTGCTCAA**C**TGCCTGTGCGAGCTCTCCAA
1412	21285	93	GCCCCTCTTCGCCTGGTGAG**C**GCCCCGCGCCCGCCGCCTT
1413	21285	246	CGCGCCAACCCCCTGCACAG**C**AGCCCGGCCGCGCTGCGCAA
1414	21285	298	GCCCCGCGCCCGCCGCCTTG**C**CTGCAGTAAACGCGTTTGTT
1415	21285	102	CCGCGGTGCCTCCTGCGCGT**C**CCCCCGGAGGGGAAAGGGCC
1416	21285	96	CCCCTGCACAGCAGCCCGGC**C**GCGCTGCGCAAGCTGGTCAT
1417	21285	101	GCCAACCCCCTGCACAGCAG**C**CCGGCCGCGCTGCGCAAGCT
1418	21285	13	CCCCCTGCACAGCAGCCCGG**C**CGCGCTGCGCAAGCTGGTCA
1419	21285	12	CGCGCGCGCGCGACGTGCAC**C**GGCGTTCAGCGAGTTCCTC
1420	21285	208	CCGCGCGCGCGCGACGTGCA**C**CCGGCGTTCAGCGAGTTCCT
1421	21285	51	CCAAGGAGGACGGCAAGCCC**C**TCTTCGCCTGGTGAGCCGCC
1422	21285	228	CTCATCAACACCTACGGAAT**C**CTGAAGCAGCGGCCCGACCT
1423	21285	52	CTCTTCGCCTGGTGAGCCGC**C**CCGCGCCCGCCGCCTTGCCT
1424	21285	168	TCATCAACACCTACGGAATC**C**TGAAGCAGCGGCCCGACCTG
1425	21285	134	GGCGACTCGCTGCTGCTGCT**C**AACTGCCTGTGCGAGCTCTC
1426	21285	166	GCTGGTCATCGACGTGGTGC**C**CCCCAAGTTCCTGGGCGACT

1427	21285	111	TGGGCGACTCGCTGCTGCTG**C**TCAACTGCCTGTGCGAGCTC
1428	21285	82	AGCAGCCCGGCCGCGCTGCG**C**AAGCTGGTCATCGACGTGGT
1429	21285	201	GGCCCGACCTGCGCGCCAAC**C**CCCTGCACAGCAGCCCGGCC
1430	21285	227	GAGCTCTCCAAGGAGGACGG**C**AAGCCCCTCTTCGCCTGGTG
1431	21285	136	CCTCTTCGCCTGGTGAGCCG**C**CCCGCGCCCGCCGCCTTGCC
1432	21285	88	TGGTCATCGACGTGGTGCCC**C**CCAAGTTCCTGGGCGACTCG
1433	21352	304	ACCTGCGCGCCAACCCCCTG**C**ACAGCAGCCCGGCCGCGCTG
1434	21352	64	AGCACTCGTGTGGAGCGACT**C**TGGGAGGAAAACTAGGGAGG
1435	21352	100	ATGCTCCCGTTTGGGCACAG**C**CTGGGGGCCGGGGCGCCCCA
1436	21352	369	CCCCAGACGCTCCAGGGTCC**C**CGCCTGCCTTAAGCGTCTAC
1437	21352	135	CTCCCTGGACAGACGTAGGA**C**CCAGGAGCAGGGTTAATTCC
1438	21352	316	GTCTACCTCCTCCCCTTCAC**C**CCACAACACGCGCTCTCTGG
1439	21352	80	GAGCGACTCTGGGAGGAAAA**C**TAGGGAGGAGGCCTGAGGAG
1440	21352	265	ACAGCCTGGGGGCCGGGGCG**C**CCCAGACGCTCCAGGGTCCC
1441	21352	158	GGTCACTTTGACCCCACGCC**C**AGCACGTAGTAGGCGCCCAG
1442	21352	178	ACAACACGCGCTCTCTGGGC**C**CCCTTTCACCCACCCACCCC
1443	21352	35	CCCCTTTCACCCACCCACCC**C**CAATTTCTATCTCCTTGTAA
1444	21352	36	GGGGAAAGCGCTCTTGGGAC**C**CAGGCCGAATGCTCCCGTTT
1445	21352	208	GGGAAAGCGCTCTTGGGACC**C**AGGCCGAATGCTCCCGTTTG
1446	21352	127	TCTCCTTGTAATCTGTGTGT**C**CTGCTTTAATGTTGGGGGGC
1447	21352	175	CCTTAAGCGTCTACCTCCTC**C**CCTTCACCCCACAACACGCG
1448	21352	150	GGCCCCCTTTCACCCACCCA**C**CCCCAATTTCTATCTCCTTG
1449	21352	2	TTCACCCCACAACACGCGCT**C**TCTGGGCCCCCTTTCACCCA
1450	21352	173	ACCCAGGAGCAGGGTTAATT**C**CTCCTGGGGACCGGGGAAAG
1451	21352	177	TGGGCCCCCTTTCACCCACC**C**ACCCCCAATTTCTATCTCCT
1452	21352	362	CCCCCTTTCACCCACCCACC**C**CCAATTTCTATCTCCTTGTA
1453	21352	302	CGCTCAGCTCCCTGGACAGA**C**GTAGGACCCAGGAGCAGGGT
1454	21352	200	CCAGCACTCGTGTGGAGCGA**C**TCTGGGAGGAAAACTAGGGA
1455	21352	98	AATTTCTATCTCCTTGTAAT**C**TGTGTGTCCTGCTTTAATGT
1456	21352	152	CGCCCCAGACGCTCCAGGGT**C**CCCGCCTGCCTTAAGCGTCT
1457	21352	59	CACCCCACAACACGCGCTCT**C**TGGGCCCCCTTTCACCCACC
1458	21352	191	GCCGAATGCTCCCGTTTGGG**C**ACAGCCTGGGGGCCGGGGCG
1459	21352	228	CCCACCCCCAATTTCTATCT**C**CTTGTAATCTGTGTGTCCTG
1460	21352	6	CCTGCTTTAATGTTGGGGGG**C**ACGGGCGCGAACTCTGGGTC
1461	21352	82	AGGAGCAGGGTTAATTCCTC**C**TGGGGACCGGGGAAAGCGCT
1462	21352	286	AGCCTGGGGGCCGGGGCGCC**C**AGACGCTCCAGGGTCCCCG
1463	21352	339	AGCACGTAGTAGGCGCCCAG**C**ACTCGTGTGGAGCGACTCTG
1464	21352	49	GGGAGGAGGCCTGAGGAGCG**C**CCGCTCAGCTCCCTGGACA
1465	21352	99	TGGGACCCAGGCCGAATGCT**C**CGTTTGGGCACAGCCTGGG
1466	21352	89	GCCCCAGACGCTCCAGGGTC**C**CGCCTGCCTTAAGCGTCTA
1467	21352	212	GGGCCGGGGCGCCCCAGACG**C**TCCAGGGTCCCCGCCTGCCT
1468	21352	185	CTTGTAATCTGTGTGTCCTG**C**TTTAATGTTGGGGGGCACGG
1469	21352	176	CACCCACCCACCCCCAATTT**C**TATCTCCTTGTAATCTGTGT
1470	21352	148	GCCCCCTTTCACCCACCCAC**C**CCCAATTTCTATCTCCTTGT
1471	21352	171	CCTTCACCCCACAACACGCG**C**TCTCTGGGCCCCCTTTCACC
1472	21352	279	TCTGGGCCCCCTTTCACCCA**C**CCACCCCCAATTTCTATCTC
1473	21352	128	CACGCCCAGCACGTAGTAGG**C**GCCCAGCACTCGTGTGGAGC
1474	21352	189	CTTAAGCGTCTACCTCCTCC**C**CTTCACCCCACAACACGCGC
1475	21352	329	CACCCACCCCCAATTTCTAT**C**TCCTTGTAATCTGTGTGTCC
1476	21352	51	AGGAAAACTAGGGAGGAGGC**C**TGAGGAGCGCCCCGCTCAGC
1477	21352	25	GGACCCAGGCCGAATGCTCC**C**GTTTGGGCACAGCCTGGGGG
1478	21352	256	CCTGGGGACCGGGGAAAGCG**C**TCTTGGGACCCAGGCCGAAT
1479	21352	167	CGAACTCTGGGTCACTTTGA**C**CCCACGCCCAGCACGTAGTA

1480	21352	240	GCTCTCTGGGCCCCCTTTCACCCACCCACCCCCAATTTCTA
1481	21352	236	TTGGGGGGCACGGGCGCGAACTCTGGGTCACTTTGACCCCA
1482	21352	129	AATGTTGGGGGGCACGGGCGCGAACTCTGGGTCACTTTGAC
1483	21352	169	TTAAGCGTCTACCTCCTCCCCTTCACCCCACAACACGCGCT
1484	21352	123	TCTCTGGGCCCCCTTTCACCCACCCACCCCCAATTTCTATC
1485	21352	101	CCTGCCTTAAGCGTCTACCTCCTCCCCTTCACCCCACAACA
1486	21354	85	CCCAGACGCTCCAGGGTCCCCGCCTGCCTTAAGCGTCTACC
1487	21354	251	AAAGGCTGGAACTCCGCTTCCCAGAATGCAAAGCGCGGGGC
1488	21354	354	TGGAAGGGGGACTCAGTCGTCACTGGCAGCGGTTGAATGGA
1489	21354	194	TCCGATTGCCTCAGAGCAAGCGGACTACATTTCCCAGGGGG
1490	21354	79	AGTCTCTCGCCACGGCGCTCCTCCCCCTCAGTCTCACTGGT
1491	21354	375	AAAGAGAAAGGCTGGAACTCCGCTTCCCAGAATGCAAAGCG
1492	21354	383	GGACTACATTTCCCAGGGGGCTGCGGGACTGCCGGGAGGAG
1493	21354	288	TTTCCCAGGGGGCTGCGGGACTGCCGGGAGGAGTGGGGGCG
1494	21354	434	TGGAGGCTCTTTGCCCCGCGCCCTCACGGTAGATGAAGTCC
1495	21354	412	TCTGGTACAGTCATCACAAGCCTGTTCGGCGACGACCAAAG
1496	21354	110	GGAGTGGGGGCGGTGCCTCACGTCTGGTACAGTCATCACAA
1497	21354	292	ATGCAAAGCGCGGGGCGGGGCTAAAGAGATAGCCTGTTTTC
1498	21354	40	GGCTCTTTGCCCCGCGCCCTCACGGTAGATGAAGTCCTTGC
1499	21354	193	ACTAACGGTTCTCACCCTCCCTTTCATTCCCTCCCGCGGAA
1500	21354	257	CAGTCTCTCGCCACGGCGCTCCTCCCCCTCAGTCTCACTGG
1501	21354	36	GGGGACTCAGTCGTCACTGGCAGCGGTTGAATGGAGGCTCT
1502	21354	224	AATAACTAACGGTTCTCACCCTCCCTTTCATTCCCTCCCGC
1503	21354	215	GTCTCACTGGTCCTGCCGGCCGTTGCGTGGAAGGGGGACTC
1504	21354	345	TCCCCCTCAGTCTCACTGGTCCTGCCGGCCGTTGCGTGGAA
1505	21354	425	GATAGCTTCTCCGATTGCCTCAGAGCAAGCGGACTACATTT
1506	21354	408	TGCCTCACGTCTGGTACAGTCATCACAAGCCTGTTCGGCGA
1507	21354	54	GGGAGGAGTGGGGGCGGTGCCTCACGTCTGGTACAGTCATC
1508	21354	197	CCCTCCCTTTCATTCCCTCCCGCGGAAAGAGAAAGGCTGGA
1509	21354	378	CTCTCGCCACGGCGCTCCTCCCCCTCAGTCTCACTGGTCCT
1510	21354	84	CTACATTTCCCAGGGGGCTGCGGGACTGCCGGGAGGAGTGG
1511	21354	308	GAAAGGCTGGAACTCCGCTTCCCAGAATGCAAAGCGCGGGG
1512	21354	294	CCCTCACGGTAGATGAAGTCCTTGCTTTGGTCAGAGCGATA
1513	21354	199	CTCTTTGCCCCGCGCCCTCACGGTAGATGAAGTCCTTGCTT
1514	21354	86	CTCGCCACGGCGCTCCTCCCCCTCAGTCTCACTGGTCCTGC
1515	21354	70	AAGGCTGGAACTCCGCTTCCCAGAATGCAAAGCGCGGGGCG
1516	21354	210	CTCCCGCGGAAAGAGAAAGGCTGGAACTCCGCTTCCCAGAA
1517	21354	387	GCTCCTCCCCCTCAGTCTCACTGGTCCTGCCGGCCGTTGCG
1518	21354	336	CCAGGGGGCTGCGGGACTGCCGGGAGGAGTGGGGGCGGTGC
1519	21354	421	GGTCAGAGCGATAGCTTCTCCGATTGCCTCAGAGCAAGCGG
1520	21357	168	GCGGTGCCTCACGTCTGGTACAGTCATCACAAGCCTGTTCG
1521	21357	55	ATCAGCGGGTCCGCGGGGCGCTTGATACACAGGTAAAGTTC
1522	21357	19	GCTGAACTGACTGTCCGCTGCCAAGGGAAGTGACAGCCGCA
1523	21357	25	TCCGGGGCGGAGTGCGTGTCCTCCCACCGTGCTGGCGCTGA
1524	21357	340	GCGGAGTGCGTGTCCTCCCACCGTGCTGGCGCTGAACTGAC
1525	21357	104	GGGACAGACAGACCGGCGTACACACTCAATCCTCCGGGGCG
1526	21357	296	CTCAGCCAGCGGCCGGGCGCCCCGCGGACCATGCTCTCCAG
1527	21357	150	TGAACGTGGACGGACGAGCCCTTGTTTCAGTAGCCAACACA
1528	21357	84	AGAACGCGGGCGGCTCCTATCAGCGGGTCCGCGGGGCGCTT
1529	21357	190	GTGACAGCCGCAGCCGGGCTCTCAGCCAGCGGCCGGGCGCC
1530	21357	96	TGATACACAGGTAAAGTTCTCTGGTCCTTAGGGGAGAGGAG
1531	21357	310	GCCGGGCTCTCAGCCAGCGGCCGGGCGCCCCGCGGACCATG
1532	21357	317	CGAGCCCTTGTTTCAGTAGCCAACACACACGGGACAGACAG

1533	21357	56	TTGTTTCAGTAGCCAACACA**C**ACGGGACAGACAGACCGGCG
1534	21357	23	CTGAACTGACTGTCCGCTGC**C**AAGGGAAGTGACAGCCGCAG
1535	21357	68	GGGCGGAGTGCGTGTCCTCC**C**ACCGTGCTGGCGCTGAACTG
1536	21357	266	TCCGCTGCCAAGGGAAGTGA**C**AGCCGCAGCCGGGCTCTCAG
1537	21357	49	GGAAGTGGGGAGAGGTGAGT**C**CTCGAACCCTGAACGTGGAC
1538	21357	18	GCTGGCGCTGAACTGACTGT**C**CGCTGCCAAGGGAAGTGACA
1539	21357	146	CTCCGGGGCGGAGTGCGTGT**C**CTCCCACCGTGCTGGCGCTG
1540	21357	228	ACGCAGAACGCGGGCGGCTC**C**TATCAGCGGGTCCGCGGGGC
1541	21357	230	GAGAGGCGGGTCGTGGGGAC**C**ACTGTGGGTGCAGGAGTGGA
1542	21362	126	GAGGCGGGTCGTGGGGACCA**C**TGTGGGTGCAGGAGTGGAAG
1543	21362	312	AGACCGGAGGATGTTCCCTG**C**TCAGGAGGAGGCCGACAGGA
1544	21362	81	CCGGCCCCCTTCCGTCCCAT**C**CTGAGCAGGGGTTTTAATTT
1545	21362	93	CCGGAGAAGGGGCGGGGTCT**C**AGCTCCTACTTCATTCTACG
1546	21362	172	CGGGGTCTCAGCTCCTACTT**C**ATTCTACGGCCGAGACCGGA
1547	21362	35	TTTGTTGGGAATTTAGAGGC**C**GAGTTCGGGAAGAGATTCT
1548	21362	215	GCTCCCGGCGCCGGCCCCGC**C**CCCTCACCCAGGCGGCGCCG
1549	21362	61	ACGAGCTGTTCCTTCAGGTA**C**CGTCTCTGGGAAGGGGCGGC
1550	21362	219	ACCCAGGCGGCGCCGTAAAG**C**CGGAGAAGGGGCGGGGTCTC
1551	21362	313	GCTGTTCCTTCAGGTACCGT**C**TCTGGGAAGGGGCGGCGGAG
1552	21362	333	CGGCCCCCTTCCGTCCCATC**C**TGAGCAGGGGTTTTAATTTC
1553	21362	406	CTGAGCAGGGGTTTTAATTT**C**GTTTCCTCTTGGCGCACCTG
1554	21362	420	GGCGCGTTCCCCATCCCCAT**C**CGCGCTGCAGAGTCCTGGGG
1555	21362	264	CCCCATCCGCGCTGCAGAGT**C**CTGGGGTTGGGCAGGGACGT
1556	21362	43	GGAGCACGTCGGGCCGGAAA**C**ATAGCGCGCACCTGGACCAC
1557	21362	281	CGCCGGCCCCGCCCCCTCAC**C**AGGCGGCGCCGTAAAGCCG
1558	21362	397	AAACATAGCGCGCACCTGGA**C**CACCCGGAGCCCGGCCCCCT
1559	21362	38	TGAAATAAGGGCGCGTTCCC**C**ATCCCCATCCGCGCTGCAGA
1560	21362	16	CCCGGCGCCGGCCCCGCCCC**C**TCACCCAGGCGGCGCCGTAA
1561	21362	396	TTTCTCGCCCCCAGCGCGCG**C**TCCCGGCGCCGGCCCCGCCC
1562	21362	414	GTGAAATAAGGGCGCGTTCC**C**CATCCCCATCCGCGCTGCAG
1563	21362	26	CCCCATCCCCATCCGCGCTG**C**AGAGTCCTGGGGTTGGGCAG
1564	21362	421	CCAGCGCGCGCTCCCGGCGC**C**GGCCCCGCCCCCTCACCCAG
1565	21362	411	CCCATCCGCGCTGCAGAGTC**C**TGGGGTTGGGCAGGGACGTG
1566	21362	445	GTTCCCCATCCCCATCCGCG**C**TGCAGAGTCCTGGGGTTGGG
1567	21362	297	GGTTGGGCAGGGACGTGGTT**C**CTTCAACCCCCGTTTCTCGC
1568	21362	355	TGGACCACCCGGAGCCCGGC**C**CCCTTCCGTCCCATCCTGAG
1569	21362	138	TTTCCTCTTGGCGCACCTGT**C**TCCAGGTGAGCGGCTGGGGG
1570	21362	438	GTTCCCTGCTCAGGAGGAGG**C**CGACAGGACCGTGTTTGTTG
1571	21362	128	GTCCTGGGGTTGGGCAGGGA**C**GTGGTTCCTTCAACCCCCGT
1572	21362	453	ACCGGAGGATGTTCCCTGCT**C**AGGAGGAGGCCGACAGGACC
1573	21362	292	AGGGACGTGGTTCCTTCAAC**C**CCCGTTTCTCGCCCCCAGCG
1574	21362	90	GCACCTGGACCACCCGGAGC**C**CGGCCCCCTTCCGTCCCATC
1575	21362	402	GGGCGGGGTCTCAGCTCCTA**C**TTCATTCTACGGCCGAGACC
1576	21362	369	TAAGGGCGCGTTCCCCATCC**C**CATCCGCGCTGCAGAGTCCT
1577	21362	53	ACCTGTCTCCAGGTGAGCGG**C**TGGGGGGTGAAATAAGGGCG
1578	21362	36	GCCCCCTCACCCAGGCGGCG**C**CGTAAAGCCGGAGAAGGGGC
1579	21368	173	CTCCCGGCGCCGGCCCCGCC**C**CCTCACCCAGGCGGCGCCGT
1580	21368	211	ACGCGGATTGCACACATCGG**C**CACTTCCTGCACCACGTGCA
1581	21368	29	GCAATGACGCGCGCACGCCT**C**ACGCGCACGCCGCATAACGT
1582	21368	64	CAGGCGCTCTAGCCCCAGTC**C**TGCTTCAAGAGGCTTTTTCC
1583	21368	52	TTTTCCCACCACAGGCTTCT**C**CTCAGTGGCCAGAAAGCTGG
1584	21368	277	CTTCAAGAGGCTTTTTCCCA**C**CACAGGCTTCTCCTCAGTGG
1585	21368	114	CCCCGCACGCGCGCCCGCCT**C**ACGCGCGCCCCGCACGCACA

1586	21368	163	CATGAACTTTGCCAGTAACG**C**AAGGCTGCCACTGACATTTG
1587	21368	287	AGACTTGCGCACGCGGATTG**C**ACACATCGGCCACTTCCTGC
1588	21368	249	GCGCCCGCCTCACGCGCGCC**C**CGCACGCACATGACGGCTTG
1589	21368	123	CGTCTGAGGCGCGCACGCCT**C**ACGCGCGCCCCGCACGCGCG
1590	21368	247	TGCCAGTAACGCAAGGCTGC**C**ACTGACATTTGTGGCGCCAA
1591	21368	67	AACGTCTGAGGCGCGCACGC**C**TCACGCGCGCCCCGCACGCG
1592	21368	87	TCCCACCACAGGCTTCTCCT**C**AGTGGCCAGAAAGCTGGGTC
1593	21368	290	CAGTGGCCAGAAAGCTGGGT**C**AACTCCCATGAACTTTGCCA
1594	21368	32	CCCGCCTCACGCGCGCCCCG**C**ACGCACATGACGGCTTGGCT
1595	21368	59	GCGCTCTAGCCCCAGTCCTG**C**TTCAAGAGGCTTTTTCCCAC
1596	21368	296	AGGCTTTTTCCCACCACAGG**C**TTCTCCTCAGTGGCCAGAAA
1597	21368	342	TCACGCGCGCCCCGCACGCA**C**ATGACGGCTTGGCTTACCTG
1598	21368	275	GGTGCGCTTCGCTTTGCGTT**C**CTCGCTTGGCCTTGCGTTCC
1599	21368	105	CGCCCCGCACGCGCGCCCGC**C**TCACGCGCGCCCCGCACGCA
1600	21368	366	GTCAACTCCCATGAACTTTG**C**CAGTAACGCAAGGCTGCCAC
1601	21368	129	GCTTGGCCTTGCGTTCCTAG**C**TTGGCTTGGCGTTAGTCGCT
1602	21368	2	TAACGCAAGGCTGCCACTGA**C**ATTTGTGGCGCCAAGACTTG
1603	21368	209	ATTGGCGTTTTCTCCCTCGT**C**GAGTTCCAGGCGCTCTAGCC
1604	21368	391	GTGCAATGACGCGCGCACGC**C**TCACGCGCACGCCGCATAAC
1605	21368	232	CTTGGCGTTAGTCGCTTTGC**C**TGGTGTTTCTTGCTTGGATT
1606	21368	286	ACGCGCACGCCGCATAACGT**C**TGAGGCGCGCACGCCTCACG
1607	21368	309	CGCGCCCGCCTCACGCGCGC**C**CCGCACGCACATGACGGCTT
1608	21368	165	GCACGCACATGACGGCTTGG**C**TTACCTGTAATGGGTGCGCT
1609	21368	257	ACTTGCGCACGCGGATTGCA**C**ACATCGGCCACTTCCTGCAC
1610	21368	185	GCGCGCACGCCTCACGCGCG**C**CCCGCACGCGCGCCCGCCTC
1611	21368	180	CACATCGGCCACTTCCTGCA**C**CACGTGCAATGACGCGCGCA
1612	21523	58	TTGCACACATCGGCCACTTC**C**TGCACCACGTGCAATGACGC
1613	21523	71	GAAAGCTTAGGCTCCCCTCA**C**CACTCCCCCCTCCCCGACCT
1614	21523	268	CCCCTCACCACTCCCCCCTC**C**CGACCTGCAGCAGCGCGGG
1615	21523	67	GAGAGGCAAGGAAGCTGGCA**C**CCGTGCCTCTTCTGCCGCCT
1616	21523	287	GGCTCCCCTCACCACTCCCC**C**CTCCCCGACCTGCAGCAGCG
1617	21523	72	ACCCGTGCCTCTTCTGCCGC**C**TGCCTGCTCCTTGAGCCGGG
1618	21523	83	CCCTCACCACTCCCCCCTCC**C**CGACCTGCAGCAGCGCGGGA
1619	21523	286	CCCCCCTCCCCGACCTGCAG**C**AGCGCGGGAAATTCTGTGAA
1620	21523	326	CACCCGTGCCTCTTCTGCCG**C**CTGCCTGCTCCTTGAGCCGG
1621	21523	136	GGGAAGTTGGGACTGGGCGG**C**AGTGACGCCTGGAGAACGTG
1622	21523	217	GGGACCACCGGAGGCAGTGT**C**GCTGTGGGTGCCACGCAGGT
1623	21523	73	GTGCGGGCATGACTCGTGCT**C**TGTGGATGTGGCAGAAAGCG
1624	21523	52	CCTCACCACTCCCCCCTCCC**C**GACCTGCAGCAGCGCGGGAA
1625	21523	68	TGAATGGAAAGCTTAGGCTC**C**CCTCACCACTCCCCCCTCCC
1626	21523	334	GCTCCCCTCACCACTCCCCC**C**TCCCCGACCTGCAGCAGCGC
1627	21523	280	GGGACTGGGCGGCAGTGACG**C**CTGGAGAACGTGGCGGGTAG
1628	21523	31	AGCTGGCACCCGTGCCTCTT**C**TGCCGCCTGCCTGCTCCTTG
1629	21523	335	GAGAGAGCGCCGGGAAGGGA**C**TGAATGGAAAGCTTAGGCTC
1630	21523	49	GGACTGGGCGGCAGTGACGC**C**CGGAGAACGTGGCGGGTAGA
1631	21523	318	GACTGAATGGAAAGCTTAGG**C**TCCCCTCACCACTCCCCCCT
1632	21523	5	TTGAGCCGGGGAAGTTGGGA**C**TGGGCGGCAGTGACGCCAGG
1633	21523	54	GTGACGCCGGGAGAACGTGG**C**GGGTAGAGAGAGCGCCGGGA
1634	21523	18	AATGGAAAGCTTAGGCTCCC**C**TCACCACTCCCCCCTCCCCG
1635	21523	323	AACGTGGCGGGTAGAGAGAG**C**GCCGGGAAGGGACTGAATGG
1636	21523	43	CCGGGGAAGTTGGGACTGGG**C**GGCAGTGACGCCGGGAGAAC
1637	21523	70	GGAAGGGACTGAATGGAAAG**C**TTAGGCTCCCCTCACCACTC
1638	21523	152	TCCCCTCACCACTCCCCCCT**C**CCCGACCTGCAGCAGCGCGG

1639	21523	269	GTGTCGCTGTGGGTGCCACG**C**AGGTAAGGAGAGAAGAGCGG AGAGGCAAGGAAGCTGGCAC**C**CGTGCCTCTTCTGCCGCCTG