

STS Primers

SUCCESSFUL
UNSUCCESSFUL

Scaffold	C.r. Start	C.r. Primer	S1-D2 Primer	Shared Primer	Lowest Approximate Annealing Temp.	C.r. Product Size	S1-D2 Product Size
1	208682	GGGTTGCTGACAGGACGGGGCTGA	CAGGCAATGAGGTGTTGGTCAGT	CGTACTGCCCATCATTACTGCAAG	64	230	192
1	316076	AACGTGCATGTGGGGTTAAACAT	GACGCTATGCGTTTAGCGAGGCAT	TCCAGACAGGGCAGCCTTCTATAC	64	101	194
1	316289	GCTTCTGTGCTCGTTAACCGCAC	CTCATTGCTGTGATGCATGTGTAC	AGTGTCGTGTAATGCGGATGATGT	63	213	110
1	316272	TAGGACTTCCAAATGCATCACAGA	CACCCCCACGAAGACGAAAGCAG	GATTATCTCCAGACAGGGGAGGCT	63	154	299
1	316541	GGTTGCTTTTGTCTTCGTGGGGGC	ACTAAGCGTGTACACGTATTAGAT	AGAATGTGAAAATAGAAATGGGGC	56	286	184
1	542725	GAAGGCGGATGAGAAAGTTAGACG	TGGAAGGGGACTGGGCGTATTGGA	GACGAACAGAAAGGTGGAAAGTGG	64	133	258
1	596330	ACCGGTACAATCAGTTTACCTTC	CACAGCATCAGTCGCTCCTGGA	GGAGTTTAGTGGATAACCAGCACGG	61	131	189
1	625136	CACTCCATTTGCATGCTGGATTTG	CAAGGCGTCATGGTAGACACGCCG	ACTGACCATTCCAAAGCGCTACAG	65	180	237
1	701614	AGCGTCTGTGTGCCTGTTGGTTA	CATAAATATTGTGAGGAGTGTGTT	CTTGCTTGGTACATGCTTTGGTTG	59	268	153
1	701602	TTGACGCTACTGACACACTCCTCG	GTGCCGCCCAATGCAAGCCGAGT	GTGCTGTGTCCTGTTGGTTAAGT	64	147	202
1	718104	CATTGGTTGCGGTGGCGTTTGACG	AGCCATGGGTGATGTCCATTGTA	TCCCCCATCAGATATAAGCCTTGA	64	172	104
1	719700	TGGGCATGTGTA AAAACTGTCGGC	AGCGAGACCAGACAAGAACTTTTT	AAGGCGATAGCACCACACAGACTC	65	100	147
1	1075556	CAGGAGGTT CAGCAAGCATGAG	CTTACACAGCGAAACTCTAGCG	TCCAAGCAAGGTA ACTCCATTCTG	60	199	129
1	1075470	GTGCCTACTCATGTGCTTGCTGAA	CCGCTAAGAGTTTCCGCTGTGTA	GCAGTGGTAGTAGGAAGCAGGAGG	64	185	249
1	1379375	GCAGTATTATCTGGTGC GGTTGGG	GGTTTGGTGC GGCGGCTCTGTAGA	CCTCTACGTA ACTACCTCGGGGCT	64	163	327
1	1379766	AGGACGAACCCCGGATGTGGGTGA	TCCATCTGCAAGTATACTAGACGG	ACGGCATCGGCTAGACAGGTATTA	63	235	155
1	1510711	CGACTGTGACGGCTTG CAGGATAA	CGCATCACTGAGAACGGCAGGGAA	GCATGACGACCATATCAAAAACCA	65	136	186
1	1555246	ATTGTGTT CATATAGAGGCATTCG	ACAGTACCGTACGATATCAATGCA	TCATGATGTCTGGGAGTTGATGTG	59	162	205
1	1694025	GTTGTAACCAATT CCGCTGTGCG	ACAGGATGTT CCGCCGAGTTGCT	GCGTCCCAGTCA ACCCTGTTAGTA	65	143	279
1	2118146	TGTGATGCATACGGCCTTGCACT	GCACAATGCGGCTAGGAGTGTGTC	TCAATCAGTTT CAGGCTCTTGCA	65	185	157
2	98455	AATTGTTGAAACTGGGACCTCTGT	TGCCACACTT GCGCTT GCGCCAAG	ACTCAACCTTGACTGAATGGAGGG	62	194	330
2	117443	TTTGAGAACACAATG TAAACCATC	CGTGCGACTAGA ACCCAGGAGCGC	TTGTGACCATGT CGGTAATGAACC	64	299	163
2	117292	TGTTGACTGATGGTTTACATTGTG	GCGCTCCTGGTTCTAGTCGCACG	CAATTATTGTGCACGGCTGAGTG	59	174	302
2	166301	CGTCTTGACGGCTGCGCCATCGA	ACTCATATGCAGCCACAACATTAC	TGCATGCTGCAGACATTCTACAAA	62	294	153
2	166396	CAACATTATACGGCACCCGGGAGT	GCCCCACATAAATTGTTGATTGGG	AATTGGAGTGGT GCGTTCACAGTA	64	229	149
2	166967	GCCAACACGCTAGACAACATCCCT	CGGCAGCACGTAAACGCCATACTCC	GGGCAGCAATGATTATTCAACCTC	64	243	159
2	367742	CACGGGTTT CACGTTTCCATTAAC	GACTTGT TTTGTCACGGTGGTCAA	CTGACGATCACAATC CATGCAAC	64	195	247
2	554285	GTGTGGCTGGCTGCAGAGTTGCAT	ATTGCAATGAAAACGTAATGTCAC	CCTTTATTGCTATGCCAGGGTACG	61	241	150
2	570985	AATCGCAGAACATGCTGCAAGGTA	TCCAGGTGAACGATTGACCTCAAT	TAAGCCCTCTTACACCGTCTGAG	64	313	189
2	570845	ATCCAATTACCTTG CAGCATGTTT	GCAATCGTTCACCTGGAGTTCAA	ACGGTACTTGTGTACCTGCAACGA	63	197	307
2	570955	TGAATCGTTCACCTGGCGTTCAAG	CTCTTACACCTCCTGAGTGGACA	GCAGAACATGCTGCAAGGTAATTG	65	137	303
2	582531	TCTGCGCCGGCGTCCACACAGCCA	GCACAGGACAAAGGGTATTGCACC	GACGTGTAGCGGTT CAGGAAAAGT	64	197	163
2	582526	ATCTCTACGAAGAGCCGCAGTGCC	GACGCAGGACGCTGCATCATTGTC	GACGGCATACACTTGCAACAAC	64	108	146
2	595655	GGGGAGATGCCTATGCTGGCAGA	GTCTGAGGTTCTGGGAACAGGGGAC	TGATCATAACGCTATCAGTGCC	65	186	123
2	595804	CCTCGTAATTATCGACACGCTCAT	CACTGTCACGGCACCATCACGCCG	CACGCTTTGTGTGCTATAGATGGG	63	169	259
2	760936	CGAAAGTCCGATATGTGTCGTGAA	TCATCACCGTACTGTGCACCCCA	CTGTCTGCTGTCGCTTCTCCTAT	65	127	209
2	798492	TCCAGTTGGGGCCACCCGTGGTC	ACTTCCATCAAGTGTGTTGGTAGG	GATTCAATTGGGTGTTGATAAAATGG	57	192	154
2	913839	AGGCAATACATAAAGCGTGGCAAT	GCTAGGGAGCGAGGGATGGCGCAG	GCCAGACTGCTCCTCCTTTGTC	64	136	214
2	1092161	ACAGATTCTGTGTCAACCCTGGG	GACTGCACGAACCCAATCTCCACC	AGACAGATGTGTCCTGACAGGTGC	65	265	202
2	1161753	CCCGCCGTGGGCAAGACCGCTGCG	CTCCTGTAGCTCCTCGGAAACA	CAGGTGATCCAGGAGTACGAGCAG	65	237	143
2	1162252	TGGTGTGGGCCAATTGCGGGACTA	ACAGAATGTTGAGATGAGCTACGT	CACTAGACCACGAAAACATGTCGC	63	277	224
2	1211895	CCAGAGATGGTTATGAGAAGTTT	ACATACAGTTCCCATCGAGAGATA	ATATGCACGCTATTAGCAGGGAA	59	194	236

2	1211937	ACATACAGTCCGATCGAGTGGTG	CAACACAAAGCCCCAATGCTCCCA	AAGTGTATCATGTGAGGGCGGTGT	64	147	189
2	1315366	GCACCGAGTCCATCAGAGCCACTC	AAGCTGAACATTCAAGCGGTAAT	ATTCTCGTCTGCACATAAGAAGGC	58	251	109
2	1315208	AACTACTGAGTGGCTCTGATGGAC	ACCGCTTGAATGTTGAGCTTTTT	CGACTGCTAGATAGGCACCTGGTT	61	195	326
2	1315339	ATCGCTTGAATGTTAAGCTTTTTG	ATCATTGCGATGGTGACCGTGGGT	TGTGTTGCTTTGCTCACACATGAT	60	125	181
2	1653992	GTGTATGCCAGGTACGTGTACTTT	TATGCAGTCAAAGCGGATGGTTAC	AGGCGCACATGCAGGTTCTACTTA	66	330	168
2	1730208	CCGCGACTCCACTTGTCCACACCG	GCCAAGCAGCTCTCGCGTCTTTT	CAAGCGCTGCGAGTACGACGAG	67	350	195
2	1859387	CGTGCTGCCCTGAACGGGGTGGT	CACAAAGGGCCAACCGACCCGTGA	ACCGTCACCATGACTACAACCCTT	65	247	189
2	1859372	AAGAAGTAGCACGAGTTCGGTTGGT	CCACGACTACAACCCTTGGTACCG	CCAATAATTACGTGCTGCCCTGAA	64	100	250
3	326790	GTGGTGCATCTGCGCCTGTGCGCA	TGAGAGCTGAATTGTTGTGAAAGA	TAAGCTCAGCGCATTCAACTCT	56	260	158
3	565144	CAGTGGTTTTCCGCCAGCACCATCC	TCTGCAAACAATCACTCGCTCCCG	GGGTAGTATCTATTCCGGCTCCG	64	168	115
3	596453	CGCCGGGCAGCAGCAACCGGCCTC	TTGTAGTAAAGGCAGCCCTTGTTG	CAACCTGTGAAAACCTCGATTGGCT	60	195	104
3	718436	GTGCGCCTGCCTGCTTCCCCACTC	AAGGGGTTTTGATCATGTAAGTAC	ACGTCTCATACCTTTTGCTGAGCC	60	258	195
3	718639	CTCAGCAAAGGTATGAGACGTAC	TCATCTAGTACGCACGTTTTATTT	CGGCATCGTTCAAATTTATTTGC	61	146	116
3	1080539	GTGCATAAGCAGTTTTGGGGATAC	TGAACCTAGGAATGGGCTCCAAGT	TCATATACTGCATCAGCGCATCCT	62	105	144
3	1080658	ACGCCTGGCGCTTGGAGCCCATTA	CCCTTGGCTAAAACACTTGTCCCT	CAACTGACAATAACCGAACGACG	64	166	100
3	1122543	ATGGTGAGCTCATTGTGGCGAGGC	GCAACGGGCATTTTGGCGTGTAT	CACCTTGACGTTGTGTTGACCTTCC	65	163	137
3	1149801	CTATGGATGGTCAATTTCTCGTCG	TTTTAGAAATCAACAATCATGTTG	GTAAGGGACACCGTGTATGTGCTT	58	231	142
3	1149699	GATACGTTCCCGACGAGAAATTGA	CATGATTGTTGATTTCTGAAACTC	TAAGTGCATTGATGAGGCATGAGC	65	119	195
3	1149958	TTTCAGAAATCAGCAATCATGTTA	CTAACGCTCCCTTAGTGCTGACAT	TCATAGTACGCCGTCCATGTCTTG	59	332	175
3	1150227	CGGGAATCTAGCTTCCCGGCCCAA	GCATCGCCCTCTACCTCAGCTACG	AGCTGCGTGTGAAGACTATTGACG	64	272	208
3	1253745	GAATTTACGACCCGGCACTTTGCT	GGTGTCCACAGGGCTCAGTAGCCT	GCCCATGTGTCTGAAGACTCTCAA	65	152	206
3	1260775	CTCCATGAGGTCCGGACAAACCTT	AAAATGCCAAATCTTCTCGCCAC	CAGATGGCCAGATGTCAGGAGTC	65	125	208
3	1372448	CCTGAGTATTGTTTTAGAGAGGAA	GCGTGAAGATAGTGTACTTAT	CTTCGTGCATCTTCCATACATA	56	170	221
4	105452	CAACTGCGATAATACCGTATATGG	CACGCCTCAAAGAGTTCCAATACT	GAAGCGGGCTCTCTGTGTTTTAT	63	183	112
4	182163	GTGGCTGCGGTGTGTGCACTGAAT	TTGCCGTACATACGGTTTCATGAT	AGCAGCATTACACATTACCATCCG	59	257	212
4	417668	GCTCCGCTCGTAAGTAATAGAGGT	AATGACAAGGCACGCCTCGGGCG	TTCGCAAAGCGTGTATTTCACTGT	61	187	266
4	460616	ACGTAGCCTATGATATACTGCCTA	AAAGAACGCACATACACACCTCAC	TTGTGGTTGACTGCAAAGCATACA	60	254	115
4	460468	GCATGAAGATTGAATAGGCAGTAT	CTAATGGGTGAGGTGTGTATGTGC	TCCACATTATCGGGACTATGCC	58	184	316
4	468253	AAGAACCATACTTGACACCCTTT	TACATGCCGCGCGGCCTTTCTCCC	AGAAGTAGGGTAGGTAAGACGCCG	58	140	177
4	469086	GCGGAAAGGGGTGAGTAGTAGTGC	ATTGTGTGCATGAAATCGTAAAA	TCATGAAGATGTAGCTTGATGGGC	64	219	309
4	469074	TGCAAAGACTCGCACTACTACTGA	GCCACCGTGTCTCATCTCCG	TCGCTAAAAGATAAGACTGCCAGGG	61	110	175
4	469139	GCCACCGTGCTCACATTACTTCGT	GCCTGCTTCCCTGCTTAGCGGGG	TCCGCTAAAAGATAAGACTGCCAGGG	64	175	217
4	509407	TTGCAACAACACACCTACGAAGA	TTGAACCGTGGGCACGTGTGATGT	GAACACAGCCTACAGCAAGACCTT	65	181	335
4	510179	TGAGAACCGTGTGTGTATGTTGTG	CTTTCTCCAGCCCTGCAGAGCGCA	ACATACGCAAGGCGGTATTACTGG	63	187	256
4	593889	CCTTCCCACCGACGGATCGCGGTT	CATACTGCACTCGCAACCTACAAT	GTTGGAGGGGAGGACTATAAGCGT	64	239	189
4	593826	GCACTTTCTAAACCGCGATCCGTC	CCGGATTGTAGGTTGCGAGTGCAG	CGTAGCAGTCTTCTCAACCAGCAG	64	184	228
4	629276	TGATGCAAATTCCGCTATGTCTA	CGAGCGCGGCAGGAAGGCACAGTG	GAAAGGCTCTGACTGACGCTTGT	64	121	228
4	770816	TGATGTAAGGAGCCATTTGATGGA	ATGTTATTTAATCCCCGCAAGCA	ATGTACTTGGCATCTGAAGGCCAC	64	115	258
4	1299847	ATGGCCACTTCAGACTATCGTAA	GTAAGACGCGTGTGTTCAAGGGC	GACGCACATCGCATCTCTAACAC	64	142	110
4	1299833	ACACAGCAGCGCAACGTGTTGCCG	CCAAATAGAGCCCTTGAACAACAC	GAAGCAGTATAATAAAGCACCCGTCA	62	236	189
5	52011	ACAGGCCCGAAACCGAGTCTCCC	TCTGCTCTGCCCTAATGACTAAAT	ATGCTCCAATACTACGGCTACT	56	288	192
5	173250	TCTTATTATTGCGTCGAGGCCGCA	ACACATTGACGATTACCGGGCTA	GCAGCGCAGGTAGTCTTTACGAAT	64	289	185
5	173124	CTGCGGCCTCGACGCAATAATAAG	TGGGCTTTAGTATTAGCCCGGTA	TGTGCTCCTTGACATTCTCAATCC	64	117	233
5	173406	ACACATTGACGATCACCAGGGCTAC	GCGCAATTTGTAAGACTACCTGT	AAGCTGCAATCAAGATGAGTGGTG	64	356	200
5	173240	TGGGCTTTAGTATGTAGCCGGTG	TAGGCAGCACAGGTAGTCTTTACA	GGATGCCCATACTGACAAGGAAAA	65	110	261
5	385188	GCCTCCAGGTACTGCAGAGTGCCT	AGTGCTGTAGCGGCCCGGGTGTG	CGGTATGGCTGGATACTGCTACCT	64	121	178
5	474228	CATTGCAAGATCTTGCCATGTCCA	TTTGCAAGGCGGCAACGCCAGCGC	GGAGCGGTGGGATAGGACAAGTT	64	222	106
5	474287	TTTGCAAAGTGAAAGCCAGCGT	CATGCCATGTCCCCCTTCAAGT	CGTGCCGTACCTGTACTGAGCTG	65	257	198
5	586912	GTGTTGTTGATGTTGTACAGTGGC	GTGGTGATCGGACTTCGCTTGAC	GCGCCTACGCTCACACTTCTAATC	61	186	243
5	859759	GGCACGTTGGATTTGGCAACCTTA	GCGGAAGCCTGGTGGCGCAAACCC	AACACACTACTGTTCCGCCCTCTC	65	110	266
5	860569	TGTACAGTAACACAAATCGACTTG	CTATGCTAGCTTTGGTTACTTTG	AACAAGCGTCATTTGGCATATACT	56	274	211

5	865845	CATCTATCCAGTGTCCAAGATCCA	AGCTAGCGCAAATGTCAACTTCGG	CTCGGACCACCTACAACCTACCTG	62	114	242
5	865973	AGCTAGCGCGAATGTCAACTTCCT	GCGCCGCTCACCTTTTCGGCGAGT	GCTGCTTCGAGTGTGGATCTT	65	168	203
5	951907	GACCGGTGGACTTCCATGGAGATG	ATCAGGACATTAGAACATAGGGC	AAAGAATCTGAATCAGGGGGCAAT	60	256	118
5	951878	GGTTCTAAATGTCCTGATCAAAA	GAGGCACGCCAGGCCGTCCAAA	AGATGCCATCAACTGTGTGGTC	57	137	281
5	1042578	TCCTCAGCGTGTGGACAGGGCCAC	AATGCACATGCCGTACTTATTCAC	CCACAGTGACACTACGTGACTCCA	58	245	195
5	1341607	AGGGGCCACATGTCACTCTTGTCT	TCTGCCCGCCCTCCCAATTCG	GTGGTATGACACTCGTGCACCTC	65	188	297
6	36177	AACAGCATTGGCTTCTGAACATA	GTGGAATGTTGGGTGAGGCGGTGG	AAATGCGTAGCAAGAAGGGACAAG	62	180	220
6	202722	GCATTATGGCGACGTGACGCGGCA	CACTGGTTTTGCCATACTGCCTCA	CATTATGCTGATGCGGATAAGTGC	64	156	107
6	338526	GTGATACCTCGCATTGAACATAA	GCCTGCTTCTGTGCTGTATCAAG	ACTGCTGCTTTCGGTGAAGTTCT	60	175	216
6	339708	GCGCAGATGCTTAGATACGGCAAT	CTATGAATCTTGTGTTCTTTGCAT	ATGTTAGCTGGAAGCTCTGGGTTG	60	355	224
6	339689	AAACGTGCAAAGAACACGAGACTG	CTGTTGTGCTGCTGTGGCCTGCC	GCAGATGCTTAGATACGGCAATGA	64	157	325
6	339925	GCTCGCAACTCTGTGGCAGGCCAT	CTAACTTGAATAAGCCCTTTCTC	ATCGCAACAGTACTGCACCATCAT	65	207	149
6	339981	CTAACATGCAAGAAGCCCTTTCCA	TGAGATCCCCCTTACATCTACACG	CATCAGTGGAAAGCACACCACCTG	63	204	148
6	339907	AAGTTTGGAAAGGGCTTCTTGAT	ACCTGTTCCGGCGTGTAGATGTA	GCCCTACAACAAGCGTAAGAGATG	65	162	224
6	389812	GGCTTGGATTGCACATGCTGTAT	GGTACATCCGACAGGGCGGCAATA	ACCTCCCAGTACGCCCTAATCTCC	64	178	264
6	390798	ACGGCTGCGGATCCAGACATAAGA	CACAGCCGGGCGCTGCGCTGCAGG	CTCTGTCCGCTTACAGCCATTAC	66	100	154
6	545359	GGAGGAAGAGGAGCTTGAGACGTG	GACATAGCCCGACATGTGAAACG	CACATGCACTGCCTCTGTCACTC	65	217	169
6	545302	CGATGTCCAGTACTCACGTCTCAA	GCCGTGCACGTTTACATGTCGG	GTTCCAGCTTTCAGGTAACCGTA	63	105	147
6	586568	CGCGGGCCTGACGCCGTGACTTCG	GGCTGACGTTTTCTGTCTATATGG	TCTACACGGTATGGACAGCCATCT	60	149	120
6	586656	GTCAGCCAGTTGCGAAGTCACGGC	GTCTGTGTCGTGACAGGGGTCAT	ACTGCTTGTGGCACTTAACCCTG	61	272	224
6	833216	GTGGGAAATACAACCGTATGTGAA	ATCCCCACCGTTGAAGGCACGTAG	TCCATCGTCTTGCAGACTGAACAT	65	219	159
6	833130	ACATACGGTTGTATTTCCCACTCA	GCGCAACTACGTGCCCTTCAACGGT	GTTTACATCAGAGTTGCTCCGCCT	61	173	242
6	833199	GCGCAAGTATGTCTTCAACGGC	AGCGATGCAGTACCAGTTCACA	GAAACTCATATCAGACACGCGACG	65	128	165
6	854558	TCCGCGCGTCTCGCCCCATGGCT	AAACGCACATAATCATCTACCCA	AGAACGTAGGGCAGGAAGTGTGTC	65	195	154
6	854707	AAACGCACATGATCATCTACCCG	ATTTTGTGTTTTGATTTTCTGCG	GAACCTGCAAGGGGATCTTACAC	65	251	102
6	854684	CCCAGGAAAAGCAAACAACAGAAC	AGGTCGCGCTGCCGAGGCCATTT	TTCCAAACGCACATGATCATCTTA	65	177	331
6	963978	CATGTCATGAAC TAAGCACCGGTA	GTCAGGCATATGTTAGAAGGTCAA	TACCGGTGTAACCATTGTCAGGGT	61	204	167
6	964105	ACAGCGCTACCGGTGTAACCATTG	CTCAAACCAAACCGCACGCGCCCG	TGGGCTGTATAGTTCCAGGAAGA	65	118	183
6	964485	CTGGCAGGCTGGGGATCGCTCCTT	ATGGAGATCGCGATTAGGCCCCAC	GTGACTGGTGTGTTTATTGGAAG	65	223	150
6	1010114	GGATGATGCTCTGTGGCTTAAACG	ATGCACAGTAAGGACAGCACACGG	CGTTGTAAGGTGAAGGGAAATGGAC	64	241	126
6	1009989	CATTGAATACAGTCCGTTACGCCA	TCCGCTGTGCTCTTACTGTGC	CTACGTATGTGATGTTGTCGTGC	63	147	251
6	1033464	CGGCTTTCTGCCCTCGCCTATTAC	TTGACAAAAGCCTGGCCCTACAA	TAGAATGCGTGTAAAGCCTTGTGC	65	230	107
6	1289723	TAGAGATAATGCATGTTGGCGCTC	CCTAAGCATAGGTCGACGCAACTA	ACCACAATTCCCATGGACCATATC	64	159	256
6	1314989	CCTACACACCCCGCAAACACTC	GTTGTGCACTACCCGAGGCAGCC	AACACGTATCATCACGAGGCAATG	65	171	248
7	543571	ATTCTCTGCACTTCCATTCAAAA	CGCAACCGCTGCACTGCACGGAT	GGAGCAAGACAAAGACTATGTGCG	63	129	159
7	549768	TGCGTGATTGCTATGAGGACGGAC	CGCTCGAACTTTCGGGAAGCGGG	GCATATGAGCTGATCACAGGCTGA	65	187	301
7	574937	CGCTGTGAGGGGTTGTGCGCGAGG	CGGAAAGGAGGGAACAGGTTGCAG	CTTGTCCCACCACTGTCTAACACG	65	233	182
7	575350	GTATCGTGGCTGATACTCGGGTCA	AGGAAAGACGAAGGAAATTTACCT	AAGGCATGTAACGCAATGTCTCA	61	327	216
7	575227	TGGGCAATTCCTGACCCGAGTATC	CAGGCTATCCAGGCGGGTAAATTT	TGTTAGACAGTGGTGGGACAAGGA	65	177	292
7	768889	CAACGCATAAATGGATAGGGATTG	CAGAACGGAAGCAGGGGACGGGGC	CTGTACACAGTGCAGCTCAGCGAT	63	113	274
7	811760	GTCCGAAATGCATTATGGGGCATG	TCCCTCATTATCAATCTCTACTCA	AAATCCAGAAATGCCACTAGGATG	57	191	145
7	811880	TCCCTCATTATCATTCTCTACTCC	CCGTCCTAGGGGCACTTCTGAATC	TAAGCAGGACTCAATCTCGGGAAC	64	265	145
7	811750	CAAATCCAGAAATGCCACTAGGAT	GATCGTTGGTTCCTGAGTAGAGAT	CGGCTACCATGGTCTGTACAACCTG	61	263	154
7	825417	GTGTGTTTTGCACAAGTCGTGCGCT	CGGGCAGCTTGGACTGTAAGTACA	AACAGGGATAGGCGAGTGACAGAG	62	290	150
7	875880	ATCAGAAGGAGTGCTTTAGCATCT	TTGCTTTGTGCATAGAGTCACCTT	GTCCGACATGATTGCGAGCTACTA	64	196	139
7	876817	GGCGGCACGTCGGCGCTGGGGCGT	CTTTGATTTGGAACGCGTGGGGAA	ATCTCCCGCCCTCTTGTACTGAAT	65	238	202
7	907282	TACAGCGCAAGATTACGCTCGGCA	ATTGTCTTACTTTCCATGCACCT	ATGGCGTCTTGATTCGTTGTTAAA	58	144	119
7	907247	GTAAGAGACAATCTGCCGAGCGTA	TGGCAGCAAGCTGCCAGTGCATGG	TATGGTTTTCGTGGTTCAGTTCGTTG	63	146	173
7	907319	ATTGTCTTACTTTTCATGCACC	CATGCTCTTGACCAACATGGAGGT	AGAGTGTACGGGGAGTGTGTGTTG	64	240	203
7	1007151	GACAACAGCGCATGTGTTTCATAA	CTGGCGCTCGTCTAGCGCCCAAGA	TGCAAGACTGCAGCACTAGGTCTC	64	161	224
7	1220796	GACGAGACTTGCCCACTTCCGTCG	ATTCACGAAAACGCACCAAGTGCC	GCTTACTCAGGGACACCGCTTAGA	65	367	206

7	1220893	ATTCACGAAAACACACCAGTGGCT	GTGAAGCAGTTTGGGGACAGAAGT	GCTTACTCAGGGACACCGCTTAGA	65	206	109
7	1336729	TTGTCAGCGCATTGAATCCTGTGT	ATACAGCAGCGCCCGCAGCAGGCT	TCATCCATCGTCCATTGCCTAGA	64	187	245
8	2114	TTGTCCATGCGTAGTCCCCTTCTG	TTCCGCCCTAAAGCCACAGGCAT	CAAGACACGCTTGGTGTGAAGTG	65	107	173
8	215795	AGAGCCCTACGAGACCCTAACGAG	GCGGCCTGGGCGCCCAAGCCGCTC	TTGTGGTGTCAAGGATAAGAGCA	65	127	190
8	215922	GGTGGACTGTAGGCGGCTTGGGCA	GAAGGACAGGTCAAGGGGGAGGAA	ACAAATCACGGTACCAAACACACG	63	266	215
8	387948	CAGCAGGCAACAGGAGTCAAGTAT	CATACCATATGATACCGCGACCG	ACTGCATTTATCTTGAGCCGGTGT	65	136	180
8	388116	TGTGGTCAGTTTGCAGTACTCATG	GAAATGACCTGATTCACACAAATT	CAACAAGTTTCCGCTGTTACAAAG	58	299	191
8	387983	TGAGTACCGCAACCTGACCACAAT	CTCAAATAAGAAAAATTTGTGGGA	ACTGCATTTATCTTGAGCCGGTGT	65	171	294
8	438237	TTTGGGGTTTACCCGACCGCGTCA	ACTCGGTTTTGGCAGGAACATGGA	GAATGTCAGAGTGGGATTTCCAAAC	64	288	158
8	499204	GCCAGGCGAGCTGGCTGCTGGGCC	GGGGAATGGTGCCTGACGATGAGA	AGTCTCTGTTGATGGCCTGGAGC	65	243	199
8	499297	GCGTGACGATTAGGTGCGCGTGAT	CGATGTGACGTGTGGTGTGTGTGT	CAATCCCAGTACACTTACAGACCC	65	255	172
8	597189	CAGCAGCAATGAGGCCGTATGCG	AAGCCCACCGACGTCATCCTGCTG	GAGTGGTGGTGGCGGTGATAGT	65	199	109
8	636947	ACATACACTCAAGCCAGAGATTA	GACAAACACATGACCCCAAGACCA	CTCCGATGGAAGACAAGTGTACA	64	190	141
8	636887	CTTAGTGTTTGTAACTCTGGC	GGCGGTGTGTGGTCTTGGGGTC	AGTATCGATTACACCCACACCCG	59	158	206
8	815331	CAATAGATGTATGGAGATGGAATC	CCAACCGGTACAACCCATGACA	GGAAAGTTGAGGGGTTTATTGGT	55	157	265
8	815197	TCCATCTCCATACATCTATTCAA	ATGGTGTGTACGCGGTTGGGCTC	TGTCTCGCAGAACAGCAAACACA	65	220	112
8	815320	GTGCACTCTCTGATTCCATCTCC	ACCGCCGTACAAGGATCTTACAT	GCATTGATCAAGTACAGGAGCAG	65	197	274
8	869279	CATGGCTGGAGTCTGTCCGATAAG	CCGCACTGACGCAATTGCAAGAGA	GGGTTAATGCTTTTGTGCATGGT	65	289	168
8	938422	CGGCATGTTGATCAAATAAATTGC	GCGGCTTAATCTGCTGTAATGAAG	CGAATGCGAAGCTAATCTGGAAAC	63	169	103
8	1021730	GAAAGCAGGCGTGGAGGTTGATAG	GGCGTGTGACTGGAGGTGTTGGCC	GGCTTTCCACGTTTACGGAATTTT	65	166	294
8	1094931	AGCCTTTTGGTCACATGGAACCT	TGTGTCAGTGTGAGGAACAGTAAC	GGAGAGTTGGAGGTGCAGTGGT	65	166	212
8	1226311	AATTGTTTACTTAGGCTTCATAA	GAAGAGCCGAGCAAATTCGAGTTC	CACACAGCTCATAACATCCAAC	56	104	150
8	1226473	ACGGTACTGAATCAAGGTGAGCGT	CCCAGCGGTAAATGCACGCCCTTC	CTGCCTGCCCTACAGCAGACT	65	114	218
8	1226667	GGCGTTATTTCAAGTGCCTGCATG	AGCAGGGTACGCGGTTACATAC	GTTGGTGAAGGCTGACGTGGAGG	63	301	224
9	179110	TAGGGGTTAGAGATGATCAGATGC	GGATGGGTATTAATATAAGGCCTC	CTTCCGCTTTATGTGCGCTGTAGT	60	100	254
9	179405	CGACAGTTTTGCCGAGTGTGTGTC	CCATCCTTTTAGCGGCCGCTATT	GCATTTACTCTCGAATGCCAAAC	65	136	237
9	365650	GATCGTCTGAAAGGCAATTGACGG	ACATGGCGCCACAACCAGGCGCG	GTACAGCCACCGCATGTTCAAG	64	152	190
9	727366	ATGGCATCACTGGGTGGTACAAAG	CGACGTGAGGGGGCACGGCCTGAA	AACTAGCGACCGAAGCAAGAAGG	65	124	217
9	866084	GAATGGCAAGCTTGTATGACTGT	ACCGGCTGGAGTGGACTTGGTCGT	CCGATAGCAAACGCTTCTACAATG	59	114	249
9	881670	CGAGTGGTGTGAAGGACTGGAG	TTGTATGCGATGAAGAAAGTACT	CCAACCTGTAGCAGGCAAGACTTT	64	194	312
10	94465	CTCTGTACACGGCATACATTGAA	CTCCAAGGCTAATGAGGCCAAAGC	TATGTAGTCCCAGAAAACAGCA	61	187	264
10	94616	AAAGACCCTTTGGTCCATAGGCG	GGGATTTTCTGTGCAAGTTACAA	TCATAAACCGGAATTCGACCTAAAG	56	161	103
10	468847	CCTCCCGAGTATTGAGGTCACAGC	AAACCCTGTGCAGCAGTGCCGCCA	ATGCAGGAGCTTTGAGTAGGCTTG	65	185	265
10	578252	TAGAAACACAGCACAGTTTACAGA	ACCCTACGCCGCTCCATCACGCA	CTATTTTGAAGCAGTATGCTGGG	56	121	160
10	941724	CTGGCTGCGTGTAAAGAACCACTC	CCTTGCTGTTAATCACCCCTTGT	CTTGGTGTGCGATTTGATTCTCT	65	184	264
10	942694	AAACACGCTGGATCACTCTACCGA	CATGCGTTGGACCTCACCACTC	GGATGATGATTGAGTGCCCTG	64	165	232
10	1104287	CCTGACATGTGACTGAACACGTTG	ACATGGGGGGCTCCCCGAGGGTGT	GCCCCGCCACAGCTAAAACCTTAC	65	222	249
10	1104330	CCTGACATGTGACTGAACACGTTG	ACAATTGCTGTGTATGTCGCTGGT	GCCCCGCCACAGCTAAAACCTTAC	63	222	179
10	1104278	TGCTACTCATGGCTCAACGTGTTG	CAGCACCACGATACATACAGCAA	GGGAGAGGTGTGATGCAAAATAAGC	65	141	174
10	1116590	TGCAGCCCTAGGCAACACACAC	GTTGCCACCATAATACGTCACAA	TGTCTGACTGCTTTGACAAGAGTG	57	239	192
10	1116535	ATTGCAGGGCTAGGTGTGTGTGTT	GGCTTGTGACGTATTAATGGTGGC	CGCTTTATCGAAATCCTGCACTCT	64	109	144
11	122476	TTACAAGTACCCGACTGTATGACT	CAAATGACTTGGACCCGTTGCTTC	CTCCAAATCATATTTACAGACGCC	56	177	266
11	181031	TCCTAACGCGACTTGCCAATTGCT	CGCAAATTTATTTCTATTCTACAT	ACCCGCCTTACGGCTACTTTATT	64	111	185
11	209089	TGCTCGTCAGCGCCTCCTCGGCC	GACAAGGTGTAAGTCAGTTGGAC	GCATCGAGTTCACCACTGTGAGTT	61	210	133
11	234002	CGCATTGGCTAGGCATGGAACCAA	GGTACTGGGACAGATCACTGGATG	TAGTCCTTAGCACCTCCAACCTGC	61	333	206
11	299621	CGGGGCGTTGGCGGCTGTGCAACA	AGCAGCAGTCGGGTGCAAAATAGGA	GCAAAACGCAAAAATCACAACAGA	65	263	195
11	392054	GGAACTAAGGCGCAAGTACCAC	TTGGCTCGGGAGCTCTCCCCGGG	TTAAGTTGCCAGTAAACTGCCGGT	62	108	144
11	400747	ATCCCTACATCTGCACCGTAGAC	GGCTCTCGGTTCTTCTAGCTTCC	TCTTGACACCGAGTTAGAGTGCG	62	149	112
11	400738	AGGCGCAAGAGCTGAGAAGCTAGG	CCTGACTCACTTGAGTGATGATCG	ACTTTCTGAGGGTGAATCAGAGC	65	116	253
11	636338	TGCCTCCACACATTAGCTCACCAT	CAGGCGACGCTGCCCCCTTATAGAG	GATACTATGTGCGAGGTCGGCTTT	64	110	175
11	646413	TGAAGACCCAATAAACACGTGCAC	AGCTTCTAATATCTTTGGTGCGC	ACAGACGCAACACCCCTTCTTGAT	62	212	163

11	646347	CATCAGGTGCACGTGTTTATTGGG	GTGCTGCGCACAAAAGATATTAG	CATGCATTGCAGGACCGGCTAC	67	124	172
11	803314	CCATATTAACGAGGTGGTCATGGG	GCTCCTATATTCAGCCTAGCGCAT	TGTTGATGCATGTGATGCTGGTAG	65	141	264
11	958320	CACCTCAATGAACTGCACGATGGA	ACGCTCGATCTGGTCGGCACCCAC	AGGACGAGATCATGGAGATGCTG	65	146	311
12	154289	GTATGTAGGGGAGTCAATTACGGGA	TGCTGCATCGAGCTGGTGCTCGGA	CAAAAACCCACCTCAGAGCACTTG	62	163	224
12	185759	CGGCTGTCCGTCCGCGACGCTCG	CAGCTGAGTACGAGAAGTGTGAGG	ACACCAACACCAACTTCCATGA	60	279	144
12	185746	TTTAGCCCAAGTCCACACTTCTCA	TTCCCTCAAACACCAAGCTCTCCAG	CCCGTCAAGGAGCTGAACTAAACA	64	118	159
12	279708	TTGCATACACCGCCATGGGCCACG	AAGGCCAAGTAGTAAGAAGCCCAA	GTGGCAACCATTTTATTGTGTGT	63	298	195
12	279688	GCGATGGGCTTCTTACAACCTCGGA	GTGGTTCGGACCCCGGAGCGACC	CCGCACCACCATTTATAGAGGCTA	65	197	274
12	395890	ACTTAAGCGCGTGCCGAGCATGGA	GAAGTGAATCTGTCCTTGAAGTGC	ATAGCCTAGGGACGCAAAGACTCC	62	207	164
12	395973	CCCTGAAGTGGGCTCAATTGAGTC	GCATACACCAGTCTCTGAAGATTG	GTAGTAGATGTAGTGGGCGCAACG	64	216	146
12	395953	CCGTAATCTTCAGAGCCTGGTGTG	AAAGACTCCGAGTCAAGGGTGAGGG	GTCACCCTAGCAGCACAGCACTT	65	173	212
12	396161	CGGCACTTGCCGTTCTCACCCCTA	CCTAGCCTCTACTAATTACCGTGG	ATCTGATGTTGATGGGTTGCATTT	58	324	165
12	395992	AAAGACTCCGAGTTAGGGTGAGGA	CCGTTAGACAGGACCACGGTAATT	AGGGTCAAGTCTCTGTAACCAAT	63	169	328
12	396235	TACTGATAACCATGATCTGTCCG	GGATTACGTCCCAACAATGTGCA	ACAGCGGTCTGCTCATGTGATTT	67	170	105
12	666559	ACTGCCATACCCAGGCATGCGAA	CTCCATCCTTGACCCGTTGTCTTT	GTAGTTGGAGACCCGCTTAGCAC	65	260	175
12	667079	CATAGCGACACCGCAAGCCGCGC	CGACGATGTCAGTTCACACATAGG	TCAAATTCATCTGACAACAGCAGC	59	243	143
12	728586	GGGTTGCAGCTAGTTTGAACACT	TAGCAACGAGCTGGTGTTCGGACG	GTCCTGCTTGTGCTATTACGGCT	64	376	194
12	1035547	TGTTTTGGGGGATTATAAACTGCG	ATCTTTAGAAGTGAGCGTGCTTGT	GTTGATGTGCATCGGTTTATGCG	66	119	154
12	1078071	CACTGATAGCAGAAGGGCATGTTG	GAGTTCAATGACGGATAGAGAGAT	GGCGGCTTAAACTACTGACAAT	56	262	191
12	1078061	TCAGGTAGCCGCCGTCTCTTATT	TGCGCATTCTGTGGGTAAGCATAC	TTGATACTTGGCTGCGATTGTGAT	64	196	230
12	1078237	CATGATGGGCTATGCTTACCCACG	CCATTGTCAGCAGTTTTAAGCCGG	GCATCAATGAAATGTCAGCAGTCC	63	287	159
12	1096197	GAAGCAATACAAGAGGCCAAACAG	GCACACGTAAGTACTGAAACACGCA	GACTTCGAGGACCAGGACGATG	61	140	220
12	1179793	AGGGCTTGTATCTTCCAGGGGTAG	TAGTGCAAGATGACTTGAATTGC	CTTCTGATTTCTGACTCCGGCAAC	64	181	346
13	401365	CCATGCACCATGGCAATGACCGTG	GTATCATCAATACGTGCCGGGTTT	AAGATCAAAACATTTCTTCCGCCA	63	227	185
13	441798	CGCTACACTGCATGCTAATCACTG	TGTATGCTGTTCTTACCAATCA	GCTTGAAACAGCATGGTATTGTG	63	156	110
13	473914	CCCCTACCTGCGTCTATTGCCCC	ATGCTTTACGTCTGCTGTGACGTA	CTGATGCGTTCGTAAGTACACCG	63	158	114
13	829967	GCCAGCGTGGAGCATGTGAAGCGG	AGAAGTGAGGAGTGAGGGAGGCGG	GGTCCAAACTACCTCAACCAAACG	64	253	192
13	987629	CTATCCAGCACAGTGCTGCAACT	TTACAGACCTTTACAGACTTGAG	AGAGCAAGAGCTTAGGTTGCATGG	65	202	157
14	245720	GTGGGGCACGCGGATGTGGGTGCA	TTCTGACGTTGCATTATTAATTGA	ACACATGATGAAAGGAAGTCACGC	61	297	189
14	382532	CACCTGGGTGGGAACTGGGACATT	GGGACAAAGTTTACAGGATACTT	GTTAGCTTAGGGAAGGTTGCAGGG	65	168	205
14	641320	ATCGATTGCGGTGTGTACTAGCTA	CATGTTAAAGCGGGGGTGTCTAG	CTGCTCTGCACTGCTGTTTTTAT	65	172	134
14	682501	CTCGAAGCTCCAACCTAACCGCAA	CAGCCCGCCCTAACACCGCTACG	GCCCAGTATCTCATATGCGTCC	65	104	198
14	682744	CGGTGTGAGGCGGGGGCTGGGTTG	CGTAAGCTTGTGATGTGACTCTTC	ACGAATGCATCTATCGCACTCTGA	65	293	172
14	682798	CGTAAGCTCGTGATGTGGCTCTTT	GGTGTGCACAAGCTGGTGTACATC	CGAATGCATCTATCGCACTCTGA	60	171	117
14	682729	GCCTGCCTAAAGAGCCACATCACG	GCCGATGTACACCAGCTTGTGCAC	GATAGAGCGCGATGATAGTGAGGG	65	186	235
14	917519	GTATTGGAGCATGGCACAACATT	GGAGCAACTGTGAACGCGGGAACG	AGACTCAGTGCAGACTCAGTGCAGA	64	152	238
14	972365	GAATAGCTGAGGTTTGGGTGTGGC	GCCACGAGCAAGTGGTTCAAAGC	ATGGACGTACCTCACCACCACTTT	65	101	206
14	973471	TCAACCACACAGACCTTTTAAC	ACGCAATCGTGCCCTCTCCAATTG	CCTTCAAGCCTAAACCCGGAAATA	65	233	174
14	973409	CTTTTGGTGATGCCGTTCCAGTTA	TTCATACCTGGCCAAACAATTGGAG	CCGTCGCTTTCTTTATGACCTAT	64	119	173
14	973463	TTCATAGCTGGCCAAAAAATTGGAT	AAAATGCCAGTACAGAGACGTTGA	AACACGCAAGGACTGAATCATCAA	65	145	214
14	973644	GAGTCAATTCTGCTACGAAGTCCG	CGTCTCTGTAAGGATTTTTTTTG	ACTTTGCGTTTTGGATTGAATGGT	63	105	190
14	973695	GAGTCAATTCTGCTACGAAGTCCG	ACAGACAATGATGTAGCCCATCAC	TTGCTGATCCTCCAAGTGTGCTTA	65	264	213
14	973870	GCAGGTACCTTGTGTGAACCTACG	GTGTCGTAGGTATTTAAGCACAGC	GCAGGACCATTACCAGATTACACA	57	200	118
14	973777	AAATTTATGCTTCTGATAGTTTACA	TGCTGATCCTCCAGCTGTGCTTAA	GAGTCAATTCGTCTACGAAGTCCG	59	180	263
15	51675	ACCTCCGCGTTGTATCCCGGGACA	ACTACAATGCTGATGGTCCGAAC	TCACGCAAGTACAGTATGCAGCAG	62	275	188
15	51786	TGAGGAGAGCATTGCAATGCACAG	CTTGAGTACCGTACATGGGCCAGG	GATGTGTGGAGAAAACGGTTAGGC	65	253	201
15	92545	GTTATGCTCTCGCATGCCATGTCC	GATCATAGGGGACACTCAGACGGA	CAGCATATATGAAGGTTTCGATGG	64	100	165
15	168513	TGCTAAAAATGCAATGCGACATGC	GGAGCCACTGACATGGATTGGCCG	CTCAGAGAGTGAGGGGCCCTCAG	65	117	247
15	168805	CAGCGGTCAATCGACCGTGCCT	CCCTGTACACCCGGCGCAGTCACG	CTGGTTGCAGTAGCCTCCAGTTGT	65	257	175
15	168793	GTAGGAAAGGGTGTGACTGCGCTA	GCGCTCTGTTGTGGGGTGGTTTCG	CACACCCGTCATATCCAGCTGTT	65	151	211
15	329045	AGCGAAATGAAGGCTAGGTTGTAT	GTTTGAGACAGGCGGGAGGCAATT	AACCCAGATTCTCTCCTAGAGCC	61	168	207

15	332646	CGTCTGCAGCCGCCATGATTGCAG	CGATATTTTCAGAGCGACAGTACC	GCTTGTGCAATTTGCGAGTACCTA	60	283	165
15	341749	CTTGAGCGGTAGCGGGTATTAGTG	CGCTACCACACGTTTCATTATAG	AGACAGACGCCTGACGCAAATTAC	65	260	101
15	341569	TGCACTAATACCCGCTACCGCTCA	CCATGCGAACTATGAATGAAACGT	AATCCATCTCTGAGTTCCTCCGTG	64	100	266
15	390423	TTCATGTGCTTGGCTCGTTCCTGAG	GGATACTGGGTATCACACTCCGAT	TTGATATCTGTGTTGGCTCGTTGG	65	168	287
15	597446	TGCGGCGACGGTGCGCCTGACTAT	AATCTAATACTTACCCAGCGTGTA	GAAGAGCATGTGTGACTGAGACCC	59	290	140
15	597423	CACACGCTGGGTACGTATTATATC	AGGAAACTAGGCGGTGCTGGTGCT	TTACACGTTCTATTTCGCCTGTCTG	59	197	278
15	600335	ACGAACAGCGGAAGGGCTTAGGTT	CCTCTGGGCGGGCCGATTCCGGACA	ACATGCAGACTACAGATGTCCCGA	65	185	309
15	634884	GGCTGCACACACACGCACAAATGT	TTCGCCATCAGATGATCAGACACG	GGTGGTAATGGTGTGTTGTGGTGT	63	235	186
15	634827	CTCATGGATATGGGTACATTTGTG	CTCGGGAACACAGCGTGTCTGATC	ACTGAGCACTAACGTGCTGTCTGC	60	144	191
15	951461	GGGATCTACGTCAAGAAGTCAAGC	ATAAGCAGCAAGAAATTTGCCCA	CCGGAGGACTGTAACATGGACTT	62	113	160
15	951854	CTGACTGCATGTGTACAACATATG	GCCAATCGCAACCAATTTCAACAT	AGCTAGTCCAGCTCCAAGCGGC	64	287	224
15	951767	ATATGTTGTACACATGCAGTCAGG	GGGCATATGTTGAAATTGGTTGCG	CCAAACCAGTATCACACCTTGACA	58	181	251
15	951864	GGAGCTGGCGTACATAGAAAGGG	CCTGAGCCTGGCGGTGCGGGGTTT	TGTACAACATATGATGAGGGGCGT	64	109	174
16	231976	GCGGGCGCAGCCTTCAACCGCAA	GCAAAGGAGTTAAGCCCGAGTAA	TGTTTGAGTTCGCTGATGAGTTG	63	274	125
16	232081	GCAAACGCGAGGTAAGTCCGAGTAT	TCATCAGCGAGCTCCAACAGCTA	AACATGTCGCTTCTACCTTTCGC	64	274	169
16	343681	ATGCAAAGCATGTATCCCGGGTAT	GATAATGGGCTGACTTTCCTTATTA	TATGGAATTGCTGCATAGATGCGT	61	249	169
16	343670	ACATATTCGGATAAGTAAGAAAGG	TTGCGAATATGGAAGTGTCTGCATG	CTATACGGTGTGCAAGTATGCAG	55	173	313
16	344068	AGCAAACCCAGTCAACAGCCCAAG	ACCCCCACGTCTAGATGCTACG	CAATAATCGGCGTTGCTTCATTC	64	182	252
16	344242	CTGTCGTATGCGTAGCATCTAGAT	AGGACTACACTAAGCAACTGGCAC	GGCTGACAGCACACTATAGAAGGGA	60	209	119
16	440748	TGGGTGTAGTGTGCTGTAGAAAT	CGGCTGGCATGTAGCGGTCTCTGG	GGTTACATGGACACATGCTTGGAG	59	195	365
16	470232	GTGGCGGGCGGGGGTGGTGGTGGT	GCACATGGTGAAGTATTGGTATA	ATGTAACCGCCGCTAGAGAGTGAC	60	293	165
16	487026	GCCGGAATAATCAGTATAAAGACA	GAGGATCAACATTACCAACGTGAC	CTACTTGACATGCCAGCTCAACC	58	107	172
16	512435	TGTCTCATGCAAGCATCTGCCCC	TCCTGGGGCAACAGCGACAACACA	CTTTTGAGCAGTATGACAGCCCCT	64	150	248
16	512584	TACTGACTCTCAGTCGCGTGC GTT	ATCACCATTGCATCCGGAAGTGCG	GTGTAGCATGCCAGGAGAAGATGA	64	136	232
16	625954	GAGCAGGAGCTTAATGATGGGCTG	AGTGAGTTGGTGAACAGAGAACGA	AATAAGCGCAATTAGGGAGCAACA	64	340	219
16	626044	AGTGAGTTTGTGAACAGAGGACGG	AAAGTCCAAGTCGTCGTGAGGGGC	GCGGCGCTTTCATTAACATATAA	65	289	199
16	626121	AAAGTCCAAGACGTCGTGAGGGGA	TTTCCAATACAGTAGATTCGGTGT	GCGGCGCTTTCATTAACATATAA	65	199	122
16	626016	CGCACCGAATCTACCGTATTGGAG	CACGACGACTTGGACTTTCGTTC	TTGTGAACAGAGGACGGTGTAGG	62	184	101
16	671542	CGAGCGTTACAGCGAACAGACTGT	AGATTGATTACAGCAGCAGGTGTGG	ATACCGTACCCAGACGAACTCAGC	60	240	187
16	716436	ATGGTTAAGCCGTACGCAGCCACT	CCTTTTGCTTCCGTCGCCCTCCAC	TCATGAAGTGTCTCAAATGAAGC	64	161	302
16	716680	AGTTTTGTTTTGCAGCTTATATTGC	GTCTTGTTGGAGGCGCAGGAAGCA	TTAGACAAATGTTAGATGGCGGA	58	155	240
16	716661	GTTGGCAATATAAGTGC AAACAA	GCCGCGATACCCCTACCCCATCT	AAGCAAAGCATTGAGGATTTGAGG	62	164	233
16	794362	GACAGTAATGGTTGTGTGTATGC	AGTCTCTCGACGAATGACCTTCAG	GACAACCAGTCGGTCTGTAAGC	61	157	251
16	794456	GGCTTCTCAACGAATGCCCTTCAC	AGCGCCGGGGACTATTCCAGCTAA	GACCATGACAGCATGACACACAAC	64	128	254
16	950291	TGATAAGCCACCTTTGCAAAACCG	CGCTGATTGATCTTTCATTTATAT	GTCGTATTGGCACTGCACTCTATT	57	240	100
16	950268	GTATAAATGGAAGATCAATCAGCA	GCAGTGTAGGTGGCGTTGCAGG	TACATGATGATAAGCCACCTTTC	57	171	286
17	62986	GCGCTACACCAAGTTCAGCCAAAT	TAAGCTACTGGGGTTGGCTTGT	ATATGGCAGCTGTTGGGAGTGTT	65	221	157
17	104132	GGGAAGGATGTGCGCACATAGTTA	GTTTACGGGAATCGGAAGCCTGAA	TTCCCACCTCTAAGTTTACACGCT	65	317	206
17	104012	TCCCCTGGAGGCTTAACATGTG	ATACGTTAGTTCAGGCTTCGCATT	GGCGCAGTTAAGTCCATTTACCAC	64	134	240
17	104213	GTTTACGGGGATGCGAAGCTGAT	ACGTTTTGACGGCGGTGGCACTTC	CTATAATTGCCAGCCTCTGACC	64	293	212
17	104118	ATACGGTATAGTACGGCTTCGCATC	ACAGAAGTGCCACCGGTGTCAAA	GCTATCATGTGAGGTGTACAGCGG	64	199	274
17	171281	TCGTCAGCAACACGGCCTTCTAAA	GTCCGTGAGGGTGGGGCTTCGTT	CAAATTGTGGACGTGCGAGTTGAG	64	146	282
17	211862	CCGCCCTGGCTTTCGCCGCCAGCC	GGCACA AATTC AACACATTGCTTC	GTTTGTATGGTACTGATCGACGC	64	364	204
17	1016428	ACACCGTCACACGTCCAATGACAT	AGCTATGCGACACTATGTTACCCA	GACAGATGCGCTGTAGTCTGGTTC	59	155	105
17	1016355	ATGTCATTGGACGTGTGACGGTGT	CCAAGCAGTTTGGGTAACATAGTG	CTATCACCTGAGGCTGAAGATCCG	65	131	191
17	1016415	CCAAGCAGTTGGGGTAACATAGTA	GACGTGTTTGTGTGAAATGCTAGG	CTATCACCTGAGGCTGAAGATCCG	61	191	315
17	1016539	GACGTGTTTCGTGTGAAATGCTAGT	GGAGACGAACAGTCGAGAGGCTGC	CACGTCCAATGACATAACTAGGCG	62	199	290
18	52586	AATTACTGTGTGCGTGAGCATTTT	CGTTTTACGTTGTCAGGTTGCGT	ATTCGACTTTCGTCCTTTTGCAC	62	222	265
18	52523	AACAAACAAAAAAAATGCTCAC	AGACGCAACCTGCACACGTA AAAA	GTGCTATGGGAGGACTGTAGGCAG	64	178	125
18	52576	AACAAACAAAAAAAATGCTCAC	TCGTGAACAATTATGCATGTCTA	GGCGTGAGTCAGAAGAGAAGAACA	60	154	240
18	157682	TGCATTCTTGAATACTAGCCCT	AGAAGGTTTGCATGGTGGATGATG	CAAAATCCCAAATCGCTTGAAAA	65	270	155

18	157557	GAATCTTCGCATCAGGGCTAGTAT	TTTGTTCACATCATCCACCATGCA	GGATGTGGAGTTACAGGAGGATGG	62	192	302
18	246957	ATGCCACGTTCCGCCCCGGATGG	AGGGACCCAACGCTCTGCTTAGCT	GCTCCATGCTTCTAAGTAGCCGTC	64	307	199
18	247122	AGGGACCCAACACTCTGCTTAGCC	TCTGAGCAATGACCGCTACTTAGG	TCTGTATCCAACCTGGCAACTCCA	62	347	182
18	247204	TCAGAGCAATGACGGCTACTTAGA	ACATAGGTACAGGTTTTGCTATCC	TGATAGAGCCCAGCCTGTGAATAC	58	246	164
18	247096	AAGTAGCCGTCATTGCTCTGATGC	TGGAGCCGGCCCATGGATAGCAA	TTCTCGATGACTAGACCTGAGCCC	65	111	211
18	444769	AGCCAAGATGTGGCCCTGAAGCTT	GCGCCTTGTCATGACGTGAAGTG	CTGATATAGCAGCGGCTAGCACTG	63	219	184
18	453786	ATGCACAGTGCCGTGCTTATTGAT	ACCGCACCCATTATAGCCTTATTT	AATTTTCTCGAAAGTGCATCGTGG	65	159	236
18	453698	ATAAGCACGGCACTGTGCATATG	CTTAGGCAAAGAAATAAGGCTATA	GACTCTGTCTTTACAGGGGCAAG	56	208	146
18	585992	GGAGCAGGAGGGGGACAGGGCGAC	ATTGTGAGGTGCAGGACAGGCATC	CCTCACCTCAAACCGCACCTAGT	65	278	224
18	628562	ACCATCCACACAACCTGCAGCTCGC	TATACCCTCGACACATGCCATCCG	GTGCGGCTGCTGGTAGAGAACTAT	65	175	131
18	629191	CATGTGCTGCCTTACGCCACCCA	GCTGCAGTCGAACACTAAGCACAG	TCGCTCGAGTACTTTTAGAGCGGT	62	249	125
18	847630	GTCCGTCACCGCAAATGCTGTACG	AGCAACTACCCCGGTGACTGACAG	TTATTGTATGCAACCAGGTTCCCC	64	291	132
18	901691	TTCACTCAACGCTATTATCATGGT	TACAGAGGCTTGGAGAAGTCACT	TCTTGCATGTAGTATAGTCGGGCG	60	200	149
18	902191	CGATTGATTTCAGTACGTGTATTT	GTCCATGCGTATGGGATGAGGGC	TGGTATGAGTACCGGAGGATGAAA	59	136	261
18	902248	GCAATTCAGTACAGTGTATTT	TCCTGTGGCTGGTGTGAGTCTCG	CAGCTTAAAGGCTGTGCTGGC	65	196	139
18	1053527	CTATTGAGATTAGGTGCCTGATTA	TGCAAATGTGCATGTTTGGGCGGG	ATAGTCGCTATTGACGACATGC	56	107	155
19	127902	CTTAAGCCATACTACTGCGACGG	CAATCCCTGATTCACCTGGTAAA	GTACCAGGGAGTTTGTAGCTGCG	65	192	318
19	128028	CAATCCCTGATTCATCTGGTTAAG	TGTATCAAATACGTGCATGTACG	TAGATGGTAGACTTCGTAGCGGGC	61	121	166
19	156436	TTGGCACACCGCCACTTCATGCGA	AACGCACCTACCCCGATACGATT	GTATGCGCAACTACGGAGACGTG	66	189	130
19	284243	GGGCACCCAAGTGAAACACTCAC	CTGGCTCCTTGCCACACAGCTCA	GTGCTGCTGACGTGGTTGACGAG	69	157	216
19	525180	ATCACCAACCAAAACAAAGCAAAA	ACCAAGAAGTGCACACGCATAGCC	ATTAGGAGGAGTGTGCGTGAGTCC	63	186	245
19	973949	TTACATGTAGGGGTCGATTTGTTT	CAGCAACGTTTACCAAGTACAGA	GCAACAGTGTGGAAGATGGTCGTA	64	208	121
19	974007	CAGCAACCTTACCAAGTACAGT	TGTTGACTAATCAATCCGCGCCG	GCTGAGCCCCTGACCCGTAATT	67	192	134
19	973933	GGCAGTACTGTGACTTGGTGAAG	TATTGGCGGCGCGGATTGAGTTAG	CCACGTTACATGTAGGGGTCGATT	65	123	180
20	103456	GGCGGAGTGATTGGGATATGATGT	GTTGATGCGGCGGCTGCCGTGGCA	CAGTCCTAACCTCCTTGCTCGAAT	64	200	259
20	103588	CCGCCGCCACGGCAGCCACCGCAC	ACCACGTCAACATCCACCACCAA	GTGGGCGTTCTTTTTGAGAATGAG	65	217	163
20	108607	CCATTCATTTTCATATCCGCGTTGC	AGTTGAGCTAGCGTCCCAAAGCG	TTGGTCGCAACATTTTCATAGACG	65	116	172
20	108684	CCATTCATTTTCATATCCGCGTTGC	CACATCAAAATTGTCGTCTATGG	ACGTTTATTAGTGGCCTTGCTTG	59	276	199
20	108673	GTGCAACATTTTCATAGACGACA	TCTTTCAGCCTGTGAGGCCCGCC	CTCCATTCATTTTCATATCCGCGTT	63	115	163
20	112848	TGGGATAGAGGGTTAACATGGGG	AGCCCGCTGGCGTCCGCCACTAC	TTCCACAGCATTTAGCAGGTACGA	64	115	212
20	118234	TCCATTAAGACAGCACTACAAAAG	TCCACACAGCGAACCACACTCTA	GAAGTGTGGCTTAGGTGTTGTAG	57	166	209
20	144549	ACCCATCTTGCCATACGTGGTGA	ACAGATGCCGAGAGCAACCCAGT	GTGATGCCGATGTTGTATCCGTTA	65	235	167
20	144676	ATAGATGCTGAGAGCAACCCAGC	CCACGCAACTCGACAATAACGGAA	GCTGTATGCCGGCAGAAATCAT	63	311	184
20	144527	GGCTGGGGTTGCTCTCAGCATCTA	CGTTATTGTCGAGTTGCGTGGCTA	CGTCTGACACAGCAGTCCAACGTA	66	137	260
20	144730	CCACGCAACTAGACAATAACGGAT	CTAACATACACCACCAAGCCCCAG	CGGTACGAGATCGGATCAGTCAG	65	258	204
20	144650	CGTTATTGCTAGTTGCGTGGCTT	CATTAGAGCTGGGGGCTTGGTGGT	CTACCCTGTGCACAAGTTTCGTCC	63	190	256
20	144962	CAAAACGCGGCCCGCCGCTGCCCA	CCTTGAGTATCATGCCACACATG	CTCCTCGTCGTAGGGTGTGACC	66	283	120
20	393894	GGTTCAGGCTACGTAGCTTGCAGA	CCCTGCAACTTATGATGGAGATC	ATGAATACGCTCTGCGACAGAAA	62	323	223
20	393870	ACTCTCCATCAGTAGGTGCAGTT	CCAACCCTGGGTGCTCTCCGATA	GAGGTGTTAGGGACATTTGCATCC	62	101	160
20	393943	CTGCATTACAGCATCGAGCGAGTT	CCCGTTTGCAAAACCACAGGGGT	GAGGTGTTAGGGACATTTGCATCC	64	174	206
20	493723	TTCAAGTTGATAGCTGTTGGGGCTG	GGCAACGCTATGCGATGTTCTTAC	ACTGTAATCCTTGCCTCCGTTG	65	309	190
20	536523	CGCCGCGCATCGTCTAACCAGCCA	GTCGATGCTCTAAATCCAGGCCCT	GCTAAACAGTAGGCAGTGGGGAGA	64	291	202
20	536419	TGGTTAGATGGCTGGTTAGACGAT	TAAGGGCCTGGATTTAGAGCATCG	GTATTACAGGCCACGATTTCCAGC	63	106	189
20	714633	TGGCGCAGAACTAGACACCCCTC	AGAGAGGTGGAACATTGGTGCAGG	CAGGATTGCACACTTCAGGATT	64	223	144
20	714746	AGAGAGGTGGGACAGTGGTGCAGT	GATGTGTAATCCGGAAGTGTGGT	CTTTGCGCCTGTATTGAGTTTGGT	62	282	169
20	714620	CCTACCAGCCACTGCACCACTGTC	GCACACACTCCGGATTACACATC	GCACTCGTCAATACGTGGTACTCG	65	160	263
20	923308	ATAGCTAGCAAATGCTGCCACGG	AAGCAGAGCTGAGCAGGAACATC	CTGGATTACTAGCTTCCGGTGAC	66	193	323
20	925915	GTGCGATACGATTGACCAATTGAC	CTGGGCGTGTGTGGGCGCAAGC	GTCACCCTGTAACAAGCGAGAGT	64	164	309
21	5519	ACGCCGTGCGGAAAGCATGTGTGG	GGAGGAGTTAATTCCACCTGTAAG	TGTCTGTGAACCCACCTGTCTTAA	61	269	128
21	5365	ATGCCTCACACCACACATGCTTTC	GCAGGCCTTACAGGTGGAATTAAC	CGCGTTATGCTTGACTAGGACTGA	64	137	274
21	297303	TGTTGCTGACTAAATATGTGTTTG	AGTCTGCAGTGCTTCTGCAGTTCC	GCTGATGGAGTACAACCGAAGAGC	61	189	145

21	297290	AAGCATCGCATAAACTGCAGAAGG	GCACAAAGACAACGCATATGGGG	GCATCTTATGCGCTCCCAAACCTTA	65	115	169
21	354926	GCCCAGATCGCCGCCAAGGGCAAC	TGCGGTGGAGAAGAAAATGAGCG	CGCGTGACGCCTGTTTTATGTAT	66	296	175
21	354793	CAGTTAGTTTAGTTGCCCTTGGCG	TCGCTCATTTTCTTCTCCACCGCA	CTTAGTGCTTCTCGTCCGCTTCTC	64	158	268
21	645943	ACATCGGGTGTCCACAAATTCATA	CACACACGACACAACCGATACAAA	TTTTGCGAACACATGTTGAGACAG	64	289	223
21	645864	GCGTGTGTGTATGAATTTGTGA	GATGGGTTTTGTATCGGTTGTGT	GCAGTTGGTATCACCCCTACTTCG	64	168	232
21	645928	GATGGGTTATTGTATCGTTGTGA	GCCGGTCCGATGGGGGAAACAC	AAATCCGTCAAGAGCAATCCAC	61	181	250
21	676874	TGCGAGGGACATAGGTTCCATA	CAGAATCTGTGGAGTATTTGTCA	CTGACACCCTTGCTGCAACTACA	64	185	305
21	676994	CAGAATCTGTGGAGCATTTGTCC	GTGCACAGATATTGGGCTCACGTC	ACTGTAGAACCTGCCGCTCCTTTA	64	166	289
21	677199	TGAGCCCACAACGTGAGCCCAATG	CCTAACCTGCTGGTACCCTGCTGTC	CTTGGTCTAGAGGACTGCGTCGTT	65	213	145
21	677117	GTGCACAGACATTGGGCTCACGTT	GTACGAAAGCGTGACAGCGGTGAC	CAATGTACTAGCAGAGGTCGCACG	65	173	244
21	789516	GTTTGGAGACGGCTGCTGTGTCAT	AGTGCGCCCGTACATGTGACGCG	CTCGCTCAGATTGGTGAACCTCGAT	66	195	283
21	789668	CTTCCGCTGACATGCGTCACATGC	CCTGACAACCTGGATCAAGCACAT	GACTTTGCGGAAGTCTTGTAGGG	63	165	112
21	789653	CCTGGTGTGTGTGCTTGATCCAAA	CGCTGCGGATGGCTCGCTGGCAA	TACCTCAGCGTTAAGCAAGGATGC	65	193	242
21	789735	GGGACTTTGCGAAGTCTTTGTAG	GCGAGTAAATCATATTCGCGTA	ATTTGGATCAAGCACACACCAG	64	107	157
21	1011380	ACGAAGACTTGTTCCTTTTAC	TAGGGAACTTTTCTTTGGGATGC	AGTTAGGCGGGGGCATTGTAAATA	64	285	220
21	1011294	TGGTAAAAGCGAAACAAGTCCTTC	GCGCATCCCAAGAGAAAGTTCCC	TGTGTGCTCCAAGCGACTAGAGAG	62	167	232
22	280604	CTGGGCATTAGGGGCCAGGGCCGT	AAGCCAAAGCCTGCGGCACAATGG	CCGAAACTGGCATACTCCCCTAC	65	352	207
22	280800	TTATCCACATGTTCCCGCATT	GCGCAGCCAGCAGGCGGAAGCTCT	CAGTGCATGTGTTGCATATGAGC	64	197	244
22	328749	CATACCATATGGCGAGCAAGTCC	AAGCGCAATTCAAGTGGAAACGCAT	CCAACCATCCTCGCCTTAAACATA	64	111	171
22	328675	CAATCAGTAGTGCGTTCACTTGAG	GAAGACTATGACTTGCTGCCATG	TGACGTCGTAATTTGGCAAGGA	61	114	173
22	457916	GAGACAGGAGCGTCTTTACGTGAA	GTTGCGTCTTTTGTGTGCGGGT	TACAAGTGACGTACAAACGGCAGC	65	199	155
22	457853	AGTTTTACGTAAGACGCTCCTG	AAAACCCGCACATCAAAGACGCA	ACAAGACTGTAAGTAGCGGCCACA	63	158	200
22	457895	AAGACCCGCACATCAAATGACGCT	AACGACCGGTACAAGTGACGTC	GATGAGTCAGCGTGTGCATTTAGC	65	100	240
22	605650	TTGCTACGTGGCCAATGTCGTACC	CAGTTAGTTTAGAGTAACCCGTG	AGGGAGATCTTGAGGGTTACAGGG	60	214	157
22	659172	ATCCCTGAGTTACACAGATGTACGC	CTGTGACCGGGCTGAACACGGTG	ATTCGGTAAACAATCCGCTGACACT	65	193	100
22	659064	CCCGTGTGCGGTACATCTGTGAAC	GCCAGTCGCACCGTGTTCAGCCCC	GAGCAACAGGCTGTGATCTGTGAT	65	107	200
22	659387	TCGCGCAAGGGTGTCAATGCTCGA	GTGCAGGAGAGCCAAACCTGACTT	GGGGCTCGAGATTAGGTGACTGA	64	258	204
22	659371	GTCAACTTAGTCAGGGTTGGGTT	GGACCGTATAATGTGAATGGCGG	GCATCAGATGTGCGTATTGGGTAA	62	138	179
22	659471	TACTGCCGTATTGCCATTACATG	CCCCATGTCATTGCACTTCTACTT	GGGGCTCGAGATTAGGTGACTGA	64	166	120
22	659412	GGACCGTATTGATGTAATGGCAA	CTCCCCCTCACTCAAGTAGAAGT	GCATCAGATGTGCGTATTGGGTAA	65	179	229
22	841345	AGTACTGCGGATGCTTGTGTGCG	ACGTATGCCGTGTATACATGAGG	CGCCCGTACAAAATGTTGAAAGTA	64	145	112
23	36325	AGTGGTTGTTGAGCACGGTTTTG	GGCAATGTAATACATACCTACACG	CATGCATGCGCGATATGGTACTT	66	120	171
23	88009	ATGTGGATACCCTAATACAGTGCG	GCTCTACAGCAGGCCTACATAGA	ATGAATGCGACATACCAAGAACGA	61	148	327
23	88353	GCACCTATGCAGGCCTGCTGTAGA	TGCAGCTTGGCGGAAGATAGGCTC	TTTGAGAACGTGCGACGTACATTT	63	245	100
23	88558	AAACCATCTGGCACGAATCACATT	AGGGTAGGCAGCGCTCGGCACCGG	AAATGTACGTGCGACGTTCTCAA	64	175	245
23	119887	GTGATGAAGTGGCTGTCGGTGACT	GCTGCTGACTGGGCGCGCTGTAGA	ACGCACGGTACATGGACGAATAGT	65	104	215
23	161427	GGCCTCCCGTCTTTGACGGACTTA	CACCCCGGCAGCTACGGTAACACG	GGTACGGAGAAGTGCACCCTAATG	65	240	123
23	161667	ACACCCGACGCCGCACAATACGCC	CATGGCACCAATACCGTTAACACG	GAAGAACCTTCTTGTGTTGCGAA	65	158	128
23	971638	CATGGAATGTGTCAGGGTGTGGT	CGCTGGAGACAGGCTGCCACGCTG	ACAACCTGATGTTTGATAACGC	64	200	242
24	272886	CCAACACGTAGCGAAAAGCGTAAG	GCTTCATAGTGCCACTTCCCTTC	CCGTGAGTTGCTATTGGTGTGTT	63	173	115
24	272817	GACTGGTGAAGTGTACGCTTTTC	TGCGGTGGAAGGGAAACTGGCAC	TTAAACCCACAGCTATGTTGCACG	63	111	165
24	969198	TGTCTCAATGATCATGATTATTCA	GAAAGCACTTCTCTCATCCCTTTT	TAATAAGCCCTGCTGACACGATT	64	242	146
24	969182	CAGCAGTGAAGGCATGAGAGAAA	GAGAGCAAGCAGAGCTGTGAAGTA	TTCTCGCTCTCAAACCTATGTC	64	147	209
25	375379	CCAGTTATCAACATGGACGCTACG	GGCGGTGATGCAGGAGCCCGTAT	GGGAGCACACAAAAGAACAGAACA	64	179	259
25	390276	AGCGGGCCACAGCCTGCGGGCGGT	AACTGCAAAATTGGATGCTGGCC	GACAGCTACCATTACCATCACC	66	346	178
25	396407	TGAGCGACGCACAAACGGTAAATT	AGTGGACGTGGCCAGGAGTCTTT	CCATGAGGGTATCACATGCAACTC	64	264	220
25	396345	CGTCAAATTTACCGTTTGTGCGTC	ACGTTGAGCCAAAGCACTCCTGGC	CGTCATGATAGCAGAACCCTGG	64	199	248
25	396891	GTGTGCTGTTCCATCAAGTGG	ACCCCTTGTTCGATGTTTCAAGTTT	TGATGATAGCGGTCATGGTTGG	65	221	150
25	396805	GAGGCTGTCCACTTGATGGAACAC	GTGAGAACTGAACATCGCAACAA	TGAACCTAACTTGTCAACCGCAA	64	182	250
25	396873	GTGAGGAACTAAACATCGCAACAG	GTGGCGGCAAGGCGGTTGCCCGGG	CACAGTCACACATGACTCACGGAC	62	197	243
25	414564	CGCACTTCCCGTGCCCGCGGAGGG	TAATTCAACTCAGGAGCCGACCG	ATCAAGATCCCAAGGAGGAGGAG	66	273	189

25	414545	ACGCAGGACGAGACCAGCAGCTGC	CTACGGTCGGCTCCTGAGTTGGAA	GGGAACCAGCATGCCCTCTAC	68	252	166
25	432253	ATGCTGCATAATGGCATATCGTAA	TCTACGGGATTGGCTGACATACCC	GTTGTACGGCAAGATAGTGGGGG	62	152	279
25	432107	GGGGGCTGGCTTACGATATGCCAT	GAAGGGTATGTCAGCCAATCCCGT	CAGAAGGTAGCGTTTCCAACCTGC	65	282	149
25	432302	ATGCTGCATAATGGCATATCGTAA	ACAGTACCATCGCCTCGTCGCCA	GTTGTACGGCAAGATAGTGGGGG	65	152	103
25	494155	AACTGCTCTTATGTGCTTGGTAAA	TCCAAATCTGACAGCTGCGCAGCC	CAAGCCAGTGGAGTACCAGCAG	59	119	153
25	555893	CCCCTTAACGTAACCTGATCATGCT	CCGCGCTCCACCCCAACGGGGCGT	CGTGACTGTGACGTAATAGTACGC	62	181	241
26	88742	TCTGTAGATTTTCAGACAACAGGTA	AAGGGACGTGTCTTCAAACACTAA	GAAGTGCTTGCTAGTGAATGCGAA	61	146	212
26	88856	CATCAATTGTAGTGTGTTGAAGACT	TATAGCGCTGAAACACGGAAATGA	AGTCGGGCTAATTTACCTGGATGG	65	182	149
26	234037	GCTTTCCCTCTCGCTACGCTACG	TTCCGCAACTGGTAAACGCATACG	ATCAACTCAGGTGTGGTGAGATG	62	386	215
26	233851	GGGAAGAGCGTAGCGTAGCGAGAG	CGTATGCGTTTACCAGTTGCGGAA	GCCGTATCCTGTATCCTTGTCTG	65	164	327
26	235352	ATGGGATGTGAGCAGAAGAGAGAG	GTAACCAGGCGTCAAGTCAGAAT	GTGCTGGAGGTATATCCCGCTG	63	162	246
26	281941	GACAAAGCAAGACTGCTTAAAGTGA	ATCTCCCATCTAAATTTATACTA	TACTCAACACTCCTTTCTGGGC	60	168	230
26	413263	TCAATACACGCTAACACCCGTACGG	CGCTCGATGAAACGCACAACACTCG	TTTTCTCTAGAATTGAGCGCGTCC	64	275	121
26	413086	CCTGACGGTGTAGCGGTATTGA	CGTCCGTAGTTGTGCGTTTCATC	CAAATATTACGACAGACAGGGCTGG	64	130	289
26	698702	GCTTCTTAAACCATGGCGTCCAAA	CCTGGAATACCAGCCACCATTTG	TAGGTAAGGCTACCGCGGTATGT	61	303	175
26	698747	CCTGGAATACAGACTACCATTTTC	TCATAGTAAGAAATGTGGTACGCT	GGGGTGCATGTAGGGTAAGGCTA	65	185	140
26	698689	GGGAGCTGCTGAAATGGTGAGTCT	TGCAGCGTACCACATTTCTTACTA	TACCTTGCTGCAGTCAGTCCAGTC	65	111	149
26	705761	CTGGTGTTCGCTTTTTGATTTGGC	GTTTGAGGTGCTATGCGCCGCAGC	GCAGAGGAAAAACTCCGTGCATA	65	138	183
26	717802	GTGGATTTTATAGCTGCCCGCTAA	CAGCATAACAATAAATCGTTTCCG	AGGTGTTTGACTTGACTGCTGAGG	64	217	111
26	718343	GGACGGCCGCTGCGGTCAAACGT	CGACCCACACACATCCGTTTCAG	CCTTCTCAAACACTGGTTCGTACA	64	206	140
27	30796	TCGGCGTAAAGAGCACAGGGCAGT	GAGGGTTGATATTGTACAAGGTAG	CGCACATCATTGAAGAACAACACA	64	231	174
27	30832	GGTAGCTGGCCATACATCGCTAAG	ACCAGCCCGTGGCCTGTGCAACT	CGTAAAGAGCACAGGGCAGTGA	64	136	170
27	160967	ATGGTGTGTGGCGAGACATGCAG	GTCAGGATGTAAGCGGTAGAGCGG	CGTGCTTTCCTGTGCTTAGTCA	64	209	160
27	276352	AGTGTGCGGGCCTCACAGCAAGGT	ATCCAACATTTCAAACAACAATC	TGCACAGCTGATAGGGATATGTTT	57	343	196
27	276192	CTTGTGGTGCACCTTGCTGTGAGG	TGAATGTTGGATTGTTTGAACGCA	GCCATGGAAAAAGGACATCAAAC	64	196	321
27	546007	GCTGCAAATATGTGGAATAACTTT	GGCCGGGACGGCTCGACAAACTCG	GAATGACGAGGATTGGAGTGACAT	58	147	221
27	546323	CTTCAAAAATATATAATGACGATC	TCATGGCGTGAAGTCGCTCACCT	TGACGGTGTCACTTGGGTTCTTTA	64	325	197
27	546483	TCATGGCGTGAAGTTGCTCACCC	TCAGAACCCTTTTCAAAGAACC	AATATCAGCTTTGTGCTTGGCACG	62	260	100
27	546315	TGTAGCAAAAATGCTGGGTGAGCA	TGACGGTGTCACTCGGGTCTTTG	AATGACGATCATGACACGCATCAG	66	153	311
27	546473	TGACGGTGTCACTTGGGTTCTTTA	GCAGGCAACCGGGCCGTTTCATAC	ATTCATGGCGTGAAGTTGCTCAC	64	199	243
27	673791	TTGGTGTAGTTGAGATTTCTGCTTC	TGCGAGTCCGTTGGTCCAGCAAT	TGTAAGCTGCCAAACCATATTCC	64	166	202
27	685026	CGGTGGATTAGGGCGGGAAGCAG	AGGAACCAGGAGGCGGGAAGCAC	ACGTATCAACAATCCCATACCCT	65	157	114
27	692203	GTGGGCACGTAGTACGCCAGTCAG	AGCGAACCGGGTGACGGTCAAGCT	GGGGGCTAACGTCAATCCTTATTC	64	130	276
27	755809	ATGTATGTGCGGGTGTGCGGGGTC	AGAGCCGCACCTTGTCAATACTTT	GTGGAATTGCGCTCTGATCTTGTT	60	244	110
27	756528	TCCTCACCGTGGTGACAGGAGCGAA	TACACTTTAATGCACACTGACTGT	ATGATGATTTGATCCCATGCTCT	64	158	116
28	112345	CAGCCGCAACAAGGTCAGCGAGCC	CACGCTATTGCATGAAAATGACAA	TGTTTTACACGTGTTTCGGCAAAG	65	166	129
28	112334	CTATGGGCTCCTGTCTATTTTCG	GCTGGAGAGTTATGGTAATTACGT	ATCTTCGTACCTCCTTCAGGCGAC	65	175	240
28	137912	CAGGATGCAGACGTCGGATACAGA	GATGCCGGGCTTGTGGTTTCTTTT	TGTCACACATGAGGGTGTGAGTGA	65	342	193
28	137951	AGAGTTGACTGCGGTGATCCGGGA	CTGACTTAAGATGGCTGATTGTGA	TGCACCTGCACATGTTTCTGAT	61	240	187
28	137887	AAGAAACCACAATCCGGCATCAC	ATTCACAATCAGCCATCTTAAAGTC	AGGATGCAGACGTCGGATACAGA	65	170	213
28	142685	ACGCCACAGCATTAGCGGGCTTAA	GAAGCCAATTGAGCTTTTCAACCC	TGCACATCTACAGCACTCAAGCAG	62	235	100
28	142537	CAGTCACGTCTTAAAGCCCGCTAAT	AGGCTGGGCGGGGTTGAAAAGCTC	GCGTCTAGCTCTGGTTGGCTTATC	64	190	325
28	242319	ATGCAGAATCGGACTTGGTGGTC	GGGCGGTCTTGGGTAAGTAGACGT	TTTACCACCCACAGTGCTTCTAA	65	173	266
28	288986	GCGTTGGCGGCGCAACAACCACAG	CAGCATATCCTGCCTTACACAGGC	CCGGCTGCTATTAGTATGGTCAGG	64	151	111
28	288934	CGAGTGCAAGACTGTGTTGTTGC	TGGGGCCTGGTAAGGCAGGATAT	CGTAAATCGCTTCTCACCAGACT	64	106	139
28	289063	CAGCGTATCCTGCCTAACACAGGT	GAACCCCGACCGGACCGTACTAT	GCATTGCTGTGGTGGAGTTGAATA	64	195	118
28	288967	GTGGACCTGTATTAGGCAGGATAC	ATAGTACGGTCCGGCTGGGGGTTT	CGTAAATCGCTTCTCACCAGACT	63	139	212
28	744815	TATTGAAACACAAAACGCCCCGT	GCCAGCATGGACTTCTCTATAAG	GACTGTATGCTGCAGCCACAGTTT	64	130	271
29	35495	CTTTGGAAATGGGCTCTTCCCTAGT	CCCAGCCGGAAGGTTGGCTCAAAA	GTTTAGTGGTGATGACGTGGTTCCG	64	139	206
29	49897	GGGACTGCTGGCCACATTACTTGC	GCCAGGCCGTTTTGTTGCTTAC	GGTCAAGCTCATTCCATAAGTGG	65	109	159
29	295720	CATGTAGATGCAGTCGGCTCAGCA	CGTAGCAATCCAATACTGACTAAT	GTCCGTGATTAATGGTTGGTCTTA	56	235	160

29	398582	AGCATTACCTGCAGATCAGACCCA	TGCGCGTGTGGCGGGCCAACT	GCACCTACCAAACACATATGCAGC	64	119	176
29	536014	TTCGTGTATACGTGCATGCCTTAA	GCCAGGTAAGTCTGGAAGCGTCTG	CACGAAAGGGTTCGTAGCAGATTG	65	301	140
29	536047	ATCTGTGTACTGTCACACCATAA	GGTCGTAGCAGAGTGCCTGCCTTT	AGTACAGTGCCGTAATCGCGTT	58	123	175
29	756146	CAGCTGCAGGGCCACTGCGTTGC	GACTTAGCTTACTGTGGTGTGTG	AGACATCATGACACGAGCCGTAA	58	174	132
29	796711	GCGCTAAGGGCCCGCCGCGCAGT	GAATGCGCAGCGATTGATTTTGC	TCTCAAAGAATGCTGGTCACTG	64	294	192
29	796703	GTGCTATCCACACAGTCAAATCC	CACACAACACAGCCAGGCGTGT	GACAAGGCTTACCCAAACCACC	61	184	222
30	164215	AATAGCCATATGAATGACGAACGC	CTTGCATGAATCCAACACCTCTCG	GTATGAATGGGCAGAGAAACCAGG	63	131	163
30	164247	CTTGCATGAATCCAATACCTCTCA	ACCGCGCTCGGTAGTGCTTCTG	GGTATGAATGGGCAGAGAAACCAG	62	164	220
30	240624	CGCGACGATCTGGCGCCCGCGATT	CAGGACGAGTCCCGTACTGCACG	CTCCACCTTGCTAGGTCCATGCT	64	333	177
30	240672	CAGGACGAGTCCCGTACTGCACC	ACTCCCTACAACCTCAGTACACG	CTCCACCTTGCTAGGTCCATGCT	64	177	129
30	251645	CCCCTTGCGCCCGCCACCGCC	TACCTGGACAACCGCGTTCGAGGTT	TAGTTGAACAGAACTCCGCCTTC	64	206	134
30	324161	TGCCGAACGCAGCCCAAGCGGT	AACCAAGGCAACATGTATGCTAG	AGTGGACCCAGAACGCGTAACTAA	63	294	208
30	380264	CAACTTGTGGTGAACGGGTGCGT	TTTTCGTAGTCATCGCGTACCTT	GCTCAAATCACTTGCATCAACAC	65	156	115
31	28995	TTGTGCCCTTCACTCTACCTGT	AACTTGCAGGCGGGGGTAGCGT	AGTGTTTGGAATGGTCTAGGG	63	101	225
31	76380	CTTTGACACAGCAGGTAGTAAGTT	CAACCGATGTGAGCGGCTTCTT	GTGTGTCTAAGCAGTGGGTAAGG	65	287	140
31	76211	AAACTTACTACTGCTGTGTCAAAA	GCGGCAAAGAAGCCGCTCACATG	CAGTAGACAGGGCACCATATAACG	57	150	302
31	76475	CAACGCAATGTGAGCGGCTTCTA	ATGTATTATATACTTGGCAGCCCG	GGTTCACGCATAGTATGTGCCGTA	62	246	151
31	76524	AAAGCAAGCCTCGCATGTATCAA	CCAGTGTCTGTCATCCCAATAAT	GGTTCACGCATAGTATGTGCCGTA	65	166	102
31	271470	AGATCCGCAACAGAATTCAGTTAG	TAATGTGTTGATTTCTGGAGACAC	TACTGTGCAACTCTGCTTCTTGC	62	197	135
31	271450	CAGATGTCTCCAGCAAACAACACG	AGCAAATGTGCTGGGGGTTGCTC	GTTCTCGTACCAAGGAAGCCTAA	64	200	253
31	470941	CGCGGAGGGGGCCAGTAGTAGGT	AGTTATTATTGCTGTCGCTATTA	GCTCTAAGGAGTAAGGAGCACAG	55	217	132
31	542420	CCTCACTCAGATCATGCTACATG	GGAACATGCACGGTATGGACGAAG	TTGCTACTGTGAGGATAGGGAGGC	63	196	142
31	630535	CAAAATCTATACATCCGCTCGTTA	CGACGTGCGTGTATGCTTCTGAC	AAGTACATAGCACCCTCCCTCGT	59	163	216
32	173197	GCAAAGAGAATACTTGTATGCAAAA	TACTGGTGTGTTGCTGTTGTGAAC	TTTTGACGTGATCTGTAGCGGTGT	60	250	154
32	342106	TCTCATTCAATTTGCTGTTAGCTC	TCGAACACACGAACCCAGACAAA	CGTGTTCTTTGACTACGTGTGTT	57	148	320
32	341923	TAACAGACAAATGAATGAGAGAAA	CGTCGAGATGATTTGTCTGGGTT	TACAGCCTTTCATCATCTGCGTA	65	298	142
32	399153	TGCGCATGACCAGATAATGTAATA	CACCTGCATGGCGGGTGCCTCG	CCCGCTTGCCACTTAATGACTCT	61	180	251
32	439805	GACCGGGTCACTGATTTTACTTT	ATGGAGGAATGAGCGTTTGGAGTA	ACACTCTTCTCCTGCACACTCAG	64	220	260
32	732633	CGTTCAAGAAGAAGCATTGCAAGG	GCCGTGCAGGAAGACCTCGCATC	GCGACAATGTACATACGCAGCTTT	64	211	148
32	732554	GCATTCACCTTGAATGCTTCTTC	TATGTCCCAGTCCGAGGGTCTTCC	GCAGTAGCAGGGGTGTCTATTG	66	128	192
33	28937	CACAAGGACTGTGCGTCTGGCCTT	ATGCTCTGCTCCTGTTACTGGA	GAAGCAGCGGAGGTGTGATG	65	244	138
33	28918	CAGCAGCAATAACAGGAGCAGAT	GGACGGCACATCAGCCCGTGAC	TGTTACTCTCAGAACAAGCCGCAC	64	179	324
33	58774	TTCTGGCTGATATCATTGAGGCC	CAGGACGTCTACCCGCGGCCACT	ATGCAGCAGCATGAGCTGTATCA	65	174	301
33	137111	GGAGGGCTGACATCGACAGGGTTC	TGCGGGTGTATATAGGGATCTTGT	GCGCATACTTTGCAGTCTGACTTG	65	167	133
33	137412	GAACATCGAGGGTGTGGCTGAGGT	GGCAGGACAAGTGGCTCGATGCTC	GCTGTACCTAGCAGTACGCAGCAA	64	233	163
33	389511	ACAACAACCACCGTCCGTAGCTT	TGGGATGACGCTGTCATGCATTCA	GGGGACAGTATGATAGGCATCACC	64	127	281
33	390821	TAGCATGCTTACCAACCTGACTTG	CGTAGCACTTGCGAACGCACACGT	CTCTCACTCCATGCCATTTCTCG	62	123	233
33	425397	ATGCCGCGATTTGCGAGAGGTATT	CTGTCTGGGGAGAAGTGAATGCA	ACTCAGTATCTCCAAACACCCCTC	59	341	219
33	454430	AAACGGCACAAAGATCAGGGCTC	CACCTCATCTTAAGATCAGGGTAG	GATATGCATAGCTGCTCGTGAAG	65	202	120
33	454706	CTGGATTGTTAATGGGCTTGGG	GCTTCACTACACAGCTGCTTGC	CCACATCCACATTAGCTGTCAAAA	65	120	181
33	483494	GACACACAGTCCCTGTGCTCCTG	CACCTCACTGCCGGCTCATCTCAA	GTCGTACGCCTTGTCTACGTTAC	64	204	176
33	716120	TAAAAGCTTACCCGCGCGGTCAT	GGAATGGTACTGATGTTCTGGCT	GGAACATCAGCCCTGTTACAGCTT	65	193	114
33	716036	CACCCCTGCAACCTTAAAATGACC	GAACATCAGGTACCATTCCATAAC	GACCATGCATGATGGAGTTTGT	65	167	223
34	215950	ATACTTTGCTTCTATATTAGCCC	CCATATCAATGAGGTGGTCAGGGT	TGTTGATGCATGTGATGCTGGTAG	65	271	141
34	271306	GGTACACACGAGAAAGCACTGCCA	AGACTACACTGTCACTCCAACCAT	AGCGCAAGGAGAGAGTGAGTTTGT	65	175	278
34	271512	AGTGTGGTCTGTCATGGTAGATAG	GTATATGACTGGCTATGCTTGCCT	AAACCGCAAATGGGCTTTAGTGAC	66	188	122
34	271428	GTTTCTATCTACCATGACAGACC	CATAGGCAAGATGCCAGTCATA	AGTATGATGACGTCGTGTTGATG	56	183	247
35	311824	GTGCATCAGTGATTTGTGGTTGA	AAGAGCTGAGGAGGATGGGCTTT	AGAGCGATATGATGGTATCCGTG	65	104	227
35	507076	TCGTGTAAGTATGTAATGGTGTTA	GAAGGAAGGAGGTGTGATGGTGTG	GCATCGAGCAATCAGCAACATTAC	61	268	196
35	507054	ATACCACATCACAGCTCCTTCTA	AATGTGAACATGGCACTTTGAACG	AACTAGTGTATGAGGCATGCCGTT	61	184	239
35	680775	GTTTGAGTGTGGGTTTGTGGAG	GTGCGGTTCACTCGTCTTGTGAT	TTGTTAATCCAGTCTTGTGCTGAT	63	235	167

35	680695	TCAACACCAGTCTCCACAAAACCC	GCACTATCAAAGCACGAGTGAACG	GCTACCGGAGAAGAAGGCCGAG	66	159	221
36	348306	ATGGGCTTTTCATGGCGCGCCCTG	CGTTGTATGTGTTGGTCTTCTG	ACAAAACAACACGCGGTACAACAC	61	171	139
36	455642	AGGGTCCTTTGTGGTGGTGCAAG	CAGCGCCTGCCAACTCCCATT	TTCAGTACCATTCCGAAGCATGAA	64	182	115
36	455651	GTTGAAAAGAAAGCATACGCGAAG	ACCGTGCAGTCCTCATCAATCAGC	AAGCAAGGTGGTGGCAGAGAAAAG	63	102	270
36	455819	ACCGTGCAGTCTCAACAATCAGT	CCACAGTCATGATACCCGCCATTA	TTGAGTTAGCGTGTCTACAGAAGCG	65	105	146
36	455860	CCACAGTCATAGACACCCGCTTG	TGTTGTCGGGTGAGACCCGACCC	TTGAGTTAGCGTGTCTACAGAAGCG	65	146	268
36	456336	CGTCTGTAGCAATGCATCCCTCA	CTCGATATCAACAAAATGTGGACC	AGCTTGAAAGGTGGTACGGGTAT	60	272	199
36	576618	TTTGCATCGGCGCAGCGTCTGAGT	CTCTACAGCAGTTACGAACCATT	CAAATCACATTACGCAACAGTCC	56	231	174
36	647827	GCAGGGGACCCCAAACACTCAAAA	CATCAAACTGGAAAGAGGTCATG	CAGGCATTGCGACTGAGTGATATT	60	210	123
36	648015	TGGTCATAGGCGCGCACTGCAGCA	CGTCTAATCTTACTTACTCGA	GCTAGTCATTTGTGTGGATATGCG	58	391	219
37	232325	GTAGAGCCGCATTAGGAGACCGCG	GGGGGGTCAGCCACACGGTGCTTT	TTCAGCGGAATTTCAAGCAAAGTT	65	335	200
37	245124	CGCATTACCAGAGCGGAGCGGCC	CCTAGCCACCAGCTGCGCAGACAC	CACAACCTCACAACAAATCCCAAA	65	239	176
37	245266	CGTGTTAGTTTGGTTATTGTGTGT	CTGCGCTGTGTTGGGATTTGTTA	TGAACACAGCAACGAAAGTACCGT	65	251	180
37	245252	ACAACCTCACAACAAATCCCAAAG	ATCTGGTTCAGCCGGTCAGTTAC	TGGGCAGACAACCTCGTGTCTA	63	162	254
37	412825	CGCCAATCTACCACTGCCCTGCT	TAGCCCAATCATCATGGTTTCAA	TTGCAGAAAGCAAGACTGCCAAG	65	362	205
38	218620	GTGCATGTCCGTGCCGTTCTCCTC	CTGTTGCTCTTCTAATGCACGAC	AGTCCGAAGGTGCATGACTGTAGC	63	223	173
38	224906	TGTGGTAGTTGGAGTGACCGTGAG	GACATGGGGTGACCCGGGTGATTG	CACAGAGAAGCTATCCTGGCCTTG	65	222	159
38	224825	CTGCGCTCACGGTCACTCCAATA	ACAATCACCCGGGTACCCCATGT	TATAAATAGCCCTTGGCCTCACGG	66	143	202
38	422954	GTGAGTGAATCTGAGTGACTTAC	TGCTGACATTGAGAAGCTTACAGA	GCGCATTCTACCTAATCCTACCT	58	244	115
38	492010	ACGAGTGCCATCCGAGCACTTAAA	CCGCCTGCTTACGCGGCCAACGA	GTGGAAGCAGAGAAGTGTGGACAG	64	100	181
39	72087	GGCGTGGATTTCTTGTGGTAGAG	GCGGTTGTTTTCCCTGGGCCGCG	GTTGTGACCTGAACCCCAAAGC	65	170	303
39	174003	CCACGCACATCCAGGGCGACAGAA	CAACCGCACCCACACCACTACCAA	TAGGGGCAGAGATGAGAGCGTTAC	64	309	169
39	174329	GATCACGCTGCCGTGCTCCAA	TCCGTAACCTCCCATCATGCACAA	GTCCGACAAGGACGAGCTGTAAG	64	164	104
39	195346	GGACTCCACACGCAAAATCGCACA	ACACTGCACAAATCATGCGTCACAG	AGAGGCTGTAGTGAATGGCCTCTG	65	270	223
39	195427	ACACTGACCGATCATGCGTCACAA	TTCACCCATCCACATGTCCATACT	AGGAGAGGCTGTAGTGAATGGCCT	65	226	145
39	252931	AGACGTGTGTGTGGCGGTGGGCTA	AGTTGCCATTATGGAGTGCCATGC	CAAGAGTTCAGAAGCACCCGGTAT	62	262	100
39	307598	GCGTGTACGCAAGTTGTCATGCG	TTGACGTTGTTGGTGTGTGTGCT	ACTCAGCCATTACATGCGAGACA	65	271	193
39	307587	AAAGTGAAGTCAGGCACACAACAT	ACAGCGGGAGCAGGCGCCGAGGG	TTAAATGGGATAGGCAGGAGGACA	62	161	297
39	519939	ACCGCAACCGTAGAACCGTACTGA	TGTGACCCCGCGCGGCTGTCCGGCT	GCCTTGCTGTCTCTGTTGAAGGAT	65	194	302
39	620377	ACAGTCTAAGCATGCTGTGTGCTG	TGCTCCCCGATATCACTTATCGG	AGTATTTGTCAAGGGAATGCAGC	62	226	163
39	620568	ACCCAGGCAGCGTGTCCAAAGCGA	AATGCGTGTGTGCTTACGCCCTCAC	GGTGTGATTCTGTGCGAATGGGAT	65	206	130
39	620604	AATGCGTGTTCGTTACAGCTCAT	GTCATACCGTACCGTGGCCAAAT	GTGATTGTGCGATTAACACAAGGG	64	252	216
39	620555	GTGATTGATGATGAGGCTGAACGA	TCACTGAGGATTTGCCACGGTA	GCTTAGACTGTCCACTACCCAGGC	64	126	161
39	621033	TGACACGCGACAACCAACTAGG	TGGGCGCAGGAATCAGGCGCTCGC	GAGCTCACTCACACATGGCACAC	65	151	247
39	621258	CGGCCAGGTTGTATGTGACCCGA	CTACTTTGCTATAGCTCCTGCTC	ACTCTTCAGGACGAGCTGGAGT	58	176	129
39	621515	GCCGTGGACTAGGCGTAGAGAAAG	GTGCATCAACCGCAACCGCGTGCA	GTCCTGAAAGAGTACACAGCGAA	65	188	280
39	635773	CCATAGCGGGCGCTTCCGGGTCCA	CTAGCTCTGGAACAGGGTACTATG	GCAGGAACACCAACTTTGAGGAGT	64	335	221
40	45060	GGAGAGCGCCACGGCGCCACAAG	AGTTAGCAACATTGCCGCTTTAT	AAGCATGGCTGTACCTACGGTTA	64	184	101
40	45610	TGTATGAAACGTGTGGTCTGTAT	CGTTGCTGACTGCCCCCTTACT	CTGTACCTGTGTATGGACGACCTG	66	160	293
40	92178	AGCCTGGCGCTTGCAACCGTGCCA	AGCCTGAGACACCACAGTCTCAAT	CGCAACTAGACTACTCGGAGCAGA	65	186	132
40	92165	TGTGAATGTGGTTGAGTGCTGAGC	GAGTGGTTAGATTGAAGCTGTGGT	CTTATTCTTTGGCCCTCTCAGCCT	62	150	106
40	92270	GGTCCGCTCAGCACTCAACCACAT	GTTGCAAAAAGATTTCTGCTCG	GGATGGTGTAGCGTTGTGTGAGTC	64	235	192
40	92262	GCAACTAGACTACGGAGCAGAG	CATGGCCATGCGGAACTGCGTGTG	TGAGACGCCACAGCTTCAACTAAC	61	127	171
40	170849	CAACGGTCAGCGAGTCGAAGTTGA	ACTACCAGGCATTGCTATAGCCTC	AGCTCCAGCAAAGCGAAATTA	65	111	197
40	309826	GTAACATGACGCAATACATGGAAA	GCGGCTATCTTGCTCATGGGTTGG	GTTATCCCTCCATTGTGCTTGGAC	64	269	220
40	309766	GGGAGTTATTGGTTCCATGTATT	CACCAACCCATGAGCAAGATAGCC	GTATGCGGCAGTGGTGTATGTGT	59	138	176
40	310432	GCGTGTAGGTCACTCATGTGCG	CTGCGCCCTCGTGTCCCTCACT	AGGCATAGGCGTTAGTTGTAAGCG	64	187	113
40	310334	GCAATATGAATGACATCAACGCA	CAGGGGTAGTAGGACGACGAGG	CCAGCAGGTGTACAACACCATGAG	66	120	202
40	336478	AGCCACTTCTTGCAAAACGAATGA	GGGCTGTGCCGCTTCAACCCTAC	GATGCTACGTGTCTGGTGTATCGG	64	100	161
40	428176	CTGCGAGGACGGCCTGGCAGGCAC	GACGTCTGAGGGTTTGTAGTGCGGC	AAATGCACAGGATCTTACACACGG	64	274	215
40	428164	GCAAGATGAATACCGCACTCACAT	ACACAATCGGCGCAGCTCCACATG	AGACAACACTACGGCACATCCGTACA	64	136	181

40	428197	CAGCTCCACATACACACGACATAC	CTTGCCGCACTCCAGGAAGCAGAT	AGACAACACTACGGCACATCCGTACA	61	169	231
40	494649	ACGCCCACTTAGGATCGGTTGGAT	GCATTGAGACGGAGAGAGAGTGGG	GCCAACAGCTTTTATACCACAGGG	62	160	117
41	65589	ATCAGTGTACCCTAGAACAGACAT	TGCCGTTGGCTTGCAAGGCTTCACT	CTACACATCGCATACTTTGTCCAC	56	116	278
41	166658	TTACCAAGAGTCAGCGCAGTTCCC	CCACACGGCCGCATCTGGCCTAAT	CTAGGCCCTGCTACTTGACCTGAG	64	172	206
41	544135	AGCACGCTTCTACTGTGCAAAAC	ATACGAGCCAAACGCCAATCACCT	AATGTTACAGTTCGCATCACCCG	64	220	306
41	544119	GAACGAGGTGTTTGCACAGTAGAA	CGCGTGGGTGTGCTGTAAAGCT	CACGTGCAGTGGTCAATCTTACCT	62	163	323
42	125516	GGCTCCCTCCGTTTGTGGGG	GTACGATAGGGTAGCAATCGGTTT	GGCATGTACACAACCTCAAAACTC	59	168	119
42	125497	CAACCAACTGATTGCTACCCTATG	TGCTTCCCAGGAGCGCTCCCCCGT	GGATTGCTACAGGTGTTTTGAGGC	61	153	213
42	433455	CTGAGTGAAGGCTGCTGGTAGGAC	GTTTAGCTAGCTACGCCAATGCTG	CTGCACGAGTATGAAAGCAAGCAT	64	143	274
43	32922	GACAACACGATTACACGTTTCGATG	ATGGCCAACACCTGTAATGATCTC	TTCTTGAGATGTGCGACTCTGTCT	57	280	129
43	32757	CATCAACCACATCGAACGTGTAAT	AGTCCAAACCAACGAGATCATTAC	GAGTGAGAATCGCGAGAGTGAGTG	63	120	275
43	34763	CAAAAGCGGTATAAAGATGGAGTT	CTGCGTAAGAGCGCTTGGGGCCGT	AAGTCAAACATCACAGCATACGACG	59	128	221
43	34916	ATACCCACTCGGCCCAAGCGCTA	CTGTACTTGTGTGCTTGCATCC	TGTATTTATGCTACACCTCGCTG	57	205	160
43	34975	TGAATCTTGGCCCCGCCACGCTG	TTTCTCCCATGCTCATGTACGG	GGATGGACCGTGACACATCTAACA	65	255	213
43	34952	CGGTGCATGAGCATGTGAAAAAAT	TTTATGCCACACCTCGCTGTTGG	TTTGCAGATGTGCGTCTGTATT	64	193	266
43	35079	GCTTCCGCTCCGACGAGGGTGTA	CCTGACAGTAAGAGCCTTGTATG	GGATGGACCGTGACACATCTAACA	63	147	109
43	35061	CTCAAAATGACAAGGCTCTCACTC	GCGTGTGCACGGCATGCGCACTTA	AGCGCACCTCATAAATTTTCCAC	61	147	281
43	72018	CTGTGTCGGTGTAACTGTGGCAA	GTAACATTCTCGAGTTGAATTC	GCATGGTTAGTCAACACGAAGCTG	65	153	227
43	84714	CCGGTGCCAGCGCGGATGATGCCC	GTGTAAGCGTTTCCGATGTGGATG	CCACAGAGCATCGATGAGTACCTG	65	293	131
43	254092	CACATTC AACAGTTCGGGCGATGT	CGCTGGCTGGCATATTGCATCTAA	GTGAGTGTTGAGGGTTGGAGCTTT	65	224	194
43	254078	AACACGGCGGTAGATGCAATATGT	GATGTCATGGACTCGTGAAGTAGC	GTGCAAGGACAGGGTTTTGAATC	65	187	259
43	254254	CGACAAGAGCGGCCAAGCAGGGTA	TAGCATCCAAACCTCCAACCTCC	CTCCGAGCTGCTCATCTTCGAC	65	256	200
43	272170	CTGGCAAATATGACACGGGTAGTC	GCCTTATAAAGCGTAGACCCGAGG	CTCTTGTACGATGGTACGGCACAC	63	202	165
43	272151	CCCCTCTGGAGTCTACGCTTTATG	CCATGGTAGGGCACACACCATCAA	CGCTCTGTGTGAGAGTGTGTGAT	63	111	240
43	287020	CATCATGACCGAGAGCTGGTCCAA	GGCTGGGCGGGTACTCGCCACA	TTTCAGACCTTCTGTGTTTGTGC	64	200	331
43	287512	GGTGCCGTGTGCGGCACCTTGGCAT	CAGTGAACCATCCAAACTACT	ATAACACAACCACGCCGTTAACAA	63	288	203
43	307801	TCGCGCCGCCATCGGCCACGGGGG	TCAAGCCACAATCCGACGACGTG	GTTGTGGAGTGGGCTTGGAGTG	66	174	111
43	341422	GATCCATT CACAACCGCTGTCTC	TCGCTTCCGCTCCCGTCCCGCTT	GTGAAGGATCGTCCAATGCACTC	66	106	156
43	344254	GCGAAGTTCGACGAGCTCTCGGGC	GAGCTCTCCGTCATGATGGTCCGC	ATAGGTTGGGCTGGGTCCGGTACT	68	211	157
45	225599	TGGTTTTGTGGTGGAGGGTTGGTA	TTTGTGTGCACGTGTGCTGGTT	AAGCTTTGAAGCCGCAAACTACT	64	303	222
45	225495	TACCAACCTCCACCACAAAACCA	CATGCATTCAAACCGCACACCCG	CTGAACGGTAAAGCAATGGAGC	66	179	270
45	225586	CATGCATT CACAACAGGCACACCT	TACATCCTAGACCTGCGCACAAAA	TGTGGTGGAGGGTTGGTATTAAGG	65	109	152
45	225835	GAGTCACACTCGAGAGTGGGTTTT	AGGAATGGATTGTAGCTTTTGAA	TTAAGCGGACATACGACACTTCCA	61	322	180
45	412818	AGCCCACGTTCTGTTATGTTGAGGC	CAACAACGCTTCTTCTTAAGCT	AGAGCCTAACGAGGAAGGTGACG	64	218	116
45	422353	CCTCGTGACCTGTATGATGACTTC	CATGATGACGTACGAGCACTGCA	GATATGAGCGGCTACTTTGATGC	65	198	109
45	422436	CTTCCACCCAGAACCATGTGCGCG	AAGCATTCAAGTAGGCCGCCATA	TGTGGGCTTTGTCTTCAACTACCA	65	223	179
45	422470	CCGGTGACCTTTCAATGCTAGGAG	AAGCATTCAAGTAGGCCGCCATA	TGTGGGCTTTGTCTTCAACTACCA	65	145	179
45	422419	ACTGAACGGCATGCCAATCCTAG	GCTGATTATGGGCGGCTACTTGA	AGGCAGAGACTCCTGACTCCATGT	64	217	172
46	163668	ATGCTTATCGACAAAGCTCCCGG	TCTGCTAGTACCCTAGTTGGTGC	CTGTCGATGACACAAGGCATTT	59	184	155
48	91830	CATTAACTACAACGGAAAGGCCGTA	GACACCACACCCGCTCGTCTAAT	CAAGCGCATACCGTAACAAAAACA	65	214	129
48	91731	CAGAGCAGATACGCCTTTCCGTTG	GATCAACATATTAGACGACGCGGG	CAGAGCAGGTGCCATAGGAAATCT	64	183	268
48	302907	GACCTGCTGTA CTGTCGTA CT	ACGCCATGGAGTGC GGATTACGTA	CGATGTGGGCGGTCTTATTTGTAG	65	303	150
48	302891	TTCATACCACGTAATCCGCACTTT	TCAGATCATGCATGACGCCCTCCT	TGTA CTGTCGTA CTGCCTTCC	63	177	270
48	303087	GCGCACATGGGGAGGGCGTCATGT	CATAAACGTTT CATGCTATACCTG	AAACCACACCAAAGAACACACAC	56	196	107
48	302984	TCAGATC ATACATGACGCCCTCCC	TATGTACAGGTATAGCAGGAAACG	GCCTTTGATGAGCTAATCGCAACT	64	171	257
48	303161	GTTACCGGGAAGTGCC TAGAGGCC	GCGTGTGTTGGTGTGTGTTCTT	AGACATGGGTGCTACGCTTTCTG	64	206	163
49	31848	GCGGCTCGTATTTGAAGTGTGAC	GCGCTCGTTTATATGTATGGGGCA	ATTAGGTTACTTTGCTACGCTG	64	262	165
49	31993	TAGACACGAAACAGCTGACAGCTT	TAGCTTCTCGGATCTCTCAC	GCGGCTTTGCATATTTAGTAGGGA	64	143	104
49	32032	TAGGGACTTCAAGTGCGTGAGTGG	TAAATATTAGCTGCATGCAGTGAT	ATGCAAATATCACAAGCTGTTGCG	65	166	220
49	207614	GTGCGAAGAAACGAGCGAAACAACG	GCTTACTTCCGACGACATCTAACT	GCGTACGTGTAGTGTAAAGCCTG	57	303	213
49	207506	CACTTCGTTGTTGCTCGTTTCTT	GTGCAGTTGAGTTAGATGTCGTCG	CTCCATGTATCTCTGGCCAGTCT	64	139	233

49	208030	GAGTGTCTGGAGGGTGGTACTGC	GAGTGCTATTACATTAAGACGTAAT	CACAAGGAGCCTCATGACTGAA	65	153	218
49	214916	TACGGTGCCTAATGCCCCGACGCA	CCGAATCCTATGTGACCAGCGTTC	CATATGCTTTATTAAGCGGGCGTG	65	167	129
49	311261	GTATGCGTGGATACATACATGCGG	CAAGGTTCATGTGGATGGACCCCC	TGCACACAATTCACATCAGCAGTT	64	154	120
49	366808	GCAGGTGAGCAACATACCAACGAT	CTGGACGCAAGTGTGAGCATGAG	AAATCACAACATGCACCCACAAC	65	152	243
49	423015	CTGAGCGAGGTGCAAGAAGAGGGCT	GACTGAAAGCTTCGGTGACAAGG	CAATCGCATGCTACCTTGTCTAAA	62	174	120
49	422952	CTCCCCGCTTTGACAGCCTCTTCT	CTGCACCTTGTACGCCGAAGCTTT	TAGAGAGAGGGGCGAGGGTTGGTA	66	139	185
49	476614	TATCACATGCAAACGTCGCATACA	CCTGCCGCGCCCTAAGACTACG	CTGGTGAACGCGCTTGACATTC	65	179	130
49	556869	CTCGTCCGTGTCTTCGCCGACCT	CTTCTGGGAATCGGCCTGTCTGA	CTGATTACCGGTACTTGAGAGCG	65	210	119
49	593789	CTTTGCTATATGCTTTTAATAATA	ATTCAGGCAGACTTTGAGCGATGG	CCTTCTATTTCCCCACACAAGCAA	65	286	192
50	403645	GGCAGTTACGTGACCTGCTTGTGCG	CTTGTGTGCGTGGACGTGACCCGG	GCCCATGATTTATGGAACACACA	64	192	351
50	572510	GACGAGGAGGCTCCGGGGACGCTT	AGGAGGGCCGAGAGCTTGTGCGTG	CATGGATGATACCGTCATGGCTAA	65	245	194
50	572496	CGCCTCCTCATTGCGAATACCAA	AACCTGCCACGCACAAGCTCTCG	AGTTCGTTAAGAACGGGGGCT	66	213	171
50	572616	AGTGCAGCATTGGTGATTGCGAAT	CTTTAGGTGCATGGCATGTGCCCC	TACCGTAACCACAGGAACGTCAGA	64	220	156
51	46649	CCTTAGTCGGTTCGACCCGATTT	CCAAAGATCCGTTACTACCTTTT	TCGTCAAAGACAAGGGGTACAGC	64	374	224
51	46628	GATACGGGATAGTAAGGACTCTGC	GCTGCTGTTCCGGTTCAACGTGTA	CTGAAAGCCAATCATGTACAGCG	61	200	310
51	133419	GCGAGACAGCTGATTACGTGACCC	CGGACTAGTTAGGCATGCTGAGA	CGCTCCAACTTACTTCCATCGAC	65	152	106
51	416351	ACGGTGGATGCAGTCGTAGTATTG	ACTTCTCCATTGCAAGGGAAAAGG	GTTCAACTCGTCTGCTGCTCGTC	64	208	269
51	416566	ACGCTTTTACTCGACTAGCCGGT	TCGTTACAGTTTTGCGCTGTGTGA	CGCAGGATGTAATTGTTCTACCA	65	357	209
51	416750	TGCACACGTGTCTCGTTTCCGGGC	TTGGTGAGAATAGTTACATCCTGT	CGAGATTGAGAATGTGGATACCCC	62	337	211
51	416802	TTGGTGAGAAACAATTACATCCTGC	ATGGATATCAATGCAAATGTAGCA	ATACCCCTAAGATAGGTGGCAGCA	59	194	142
51	416865	ATGGATATTAATGCAAATGTAGCG	CAGTCAAAGATGCTGCCGTTGTAG	CACAAAACATGTTACACGCTCAG	64	264	201
51	416787	AGACCTACGCTACATTTGCATTA	GCGCACTACAACGGCAGCATCTTT	CGGGTCAGCTAGTTTGGGCTATTT	64	109	169
52	243950	ACTCCCCAAATACGACACACATT	TTGTTGCAGAAGCCGTGTCAGAG	AGTTGCTAACAGGGCAGGAGACAG	65	187	133
52	243990	GTTGCACAAGACCGTGTCAAATC	AGGGAGGGAACAGAAGCGTCTCCC	GAACATCTGGGGTGTAGTGACTCG	63	262	224
53	525244	CTTACGCACGTATGTACATCCGAT	ACGCGCTTCAATGTCTCTCACTT	GAGAGTGGGGATGAGGACAGGTAG	64	186	154
53	525238	CTTACCCCGATGTGACAAAGTGG	GCTGGCCGGCGTAATGGCATCTGC	AAGAGCCCCTCGGTACACGTTAAT	65	174	216
53	554471	TTGACGCAATGCAGCCAAAGGCAT	CTCAGCCTTCCCATCGATCACTCT	TGAATGGTTTGGATTAGACGGTTG	64	183	152
53	554608	CTCAGCCTTCCCATCTATCACTCC	AATCCAAATCATTACAGGGATGT	GGGACGTCATAGACTGCGTTATC	65	346	209
53	554463	GCAGTGATGTACGGCGGAGTGATA	CTGTGAATGATTTGGATTAGACGT	CCTAGCTCCTCGCCATCCTCTG	65	158	274
53	554579	CTGTGAATGGTTTGGATTAGACGG	CGACCGGCTTTGATGCAGGGACT	CTATCACTCCGCGTACATCACTG	63	141	278
54	57538	TAACCTCTCCAAAACCATGTAGCA	AAAGGAGACTATTGTGCGGTACAA	CACCTTAATCAGTTGACGTGCG	60	116	219
54	58039	GCGCGTGCCTTCTTTCGGTGCCG	TTCTGTGCGAAGGGAGAGTCAATG	TGGGTGTGTTACCCGTGACTTCT	65	225	103
54	58090	TGCTGTGCGGAGGGAGAGTCAATA	CACATGACTGATATGGGACTTGCG	AAATGGCTAGTACAGTGCAACCCT	57	234	183
54	81434	TATGAACTACCAGGGACCCAAATC	CAGCACACGTCAGAAGCAAAGAC	GTGTGCGTGTGTGAATGAGAGAGA	62	136	187
54	158145	ACAGCACAGAAAGCGCCGCATTT	ATCATACCGTCACCCTCACACTTG	GTGTGTGTGGATATGGGAGGAG	64	215	141
54	158125	ATGTAAGTGTGAGGGCGACGGTGA	CTGGAGCGAGCGGAGGCCCGCTGC	TTTCTTACCACAGCACAGAAAGCG	64	110	244
54	382043	AGACGTGATGTGTGGTGTGTGGTT	CAAGCTGATGACAATGAACTGAC	TGCCGTGTGTAGTAAAATCGTTGG	65	112	180
54	382111	CAAGCTGATGACAATGAACTGAG	GTGCCTCTCGCTGCCGAATGCTC	GTCATAAGTTACTGGCAGCCCCAC	61	147	189
54	411461	ATATGCCCTAGTCTTGAATGGATT	CTATACCTCGCTCCGCTCCCTTTG	TATGCATTGCTCCGCAAGATAGTG	65	226	110
54	411989	CCCTTACATAAGTACCCATCTTTT	AGGTTGCGGATAAGAGGATGTCTA	TTATGATTTGCTGCAAGTGTGAGGC	62	336	208
54	411849	TGTATCGGGTCAAAGATGTGGGTC	AAGTACTCAATTTAGACATCCTC	AGTAGGATCTGGTCCAGCTTCGTG	65	161	291
55	215444	TATCTAGCCATATGCATCGCCGCT	ATTAGTCAAACCGGCCACATGCC	CGACAAGAATAACAACCCTACCG	65	289	153
55	215413	GGTCGGTTTACTTATCACGAGGT	CGTACGTAGTGTACGTGTAGTGT	CTATACGGCACAGCAGCTACAACG	64	130	203
55	215486	CGTACGTAGTGTGAGGTGTAGTGC	TGGGTGCGGTACGTAGCCTCGTGC	GGCAACCTCGTGATAAGTCAAACC	61	101	140
55	270322	AGTCTCCTTAGTGAATGCAAGCCG	CTCGTAAGCCTTCGCGGAGTATCA	GCTTGTGCTGAGGAGGCAGAGG	65	106	265
55	279625	CACCCGTTAAAGTGCCACAAGAT	GTGCTCTCAGGGATGCTTGCGAAC	ACCTCGTGATGATGGCGAGTATG	65	135	285
55	373036	CGGGGGGGGCTTACAGCTAAGG	CACCGGCAATGCGAGAGCCTAT	ATCCGACCGTTTAGAGGACATGC	65	244	161
56	115879	GGTGCGGGTCTTAAATGCAGCA	GCGGGCGGTACGGGTAACCTCGGG	CTTTCATACCTCCGCTAAACACC	64	264	177
56	115775	CGCTGCTGCTGCATTTAAGACCC	GAGTTTACCCGTACCCGCGCTCG	CTAGTGATCTGGGTAGCTCGGGTG	65	132	211
56	278658	ATCGAGGGAGGTAAGTCTCCGTAG	GAGCTCACGGAAGAATCGGAAT	GAACATGCATTGCGTAAGCAGC	64	305	194
56	278526	CCCTACGGAGACTTACCTCCCTCG	TTCCGATGTTCTCCGTGAGCTCG	TAGAACCCGGTAAGATGAAGTCGG	64	143	251

56	494962	CCGGCCACCCTAACCGCCGCTCCC	TTATTGTAGGGCGTAATCCCTTCA	CTACGTTGCTGCTGATACGACTT	56	246	176
56	494948	GCCTGTTGCCGAAGGGACTACTGT	GTGGCGCCCGAGCGATGGGCCCT	TGCATATTTGCATATGCGTGTGAC	64	193	301
56	495130	TAGGTGTGAGCATTGGGAGACACG	ATAGGCAGGTAGGGCGAAGGCGCT	GCTGAGCTTCTCTGACCAGCACC	67	176	213
57	121129	GCCGCTGGGCAACGAGGTTAAGGC	AGAGATTGCAACTTGAGCGCAGGG	CGCCAAGGTGATACCACAAAACCTT	64	257	180
57	166386	TGTACACCCTGTTGGTGTATGCTC	ATTCCGGCCCAACTTCACTGTGCT	TACAGTAGAAGACCCTGAGGGC	66	165	202
57	166772	CCGTAACCGACCCACATCATGAG	CCTGGAGTGCCCTACCACGCAATT	CCGCAAGTTCTATACCCTACGTGGC	65	236	169
57	190609	CTCGCGATCCAAAGGCCTCGTGAA	AAGCAGCTATTCTACGCTTGAGCT	CAAGTCATGCGTTGCTTGGTTATC	63	296	150
58	98010	AAAAATTGCTCATTGCGCTCACGT	AACAGCAGTAATCACAGCGTCCAA	ATTCGAATACACATCCTGGAGGGA	64	238	206
58	97955	ACGTGAGCGCAATGAGCAATTTTT	AGGCGCAACTGTTGACCCCTGTGA	CAGGCTACCTCTGCAGAAACACAA	64	122	165
58	116680	CCTTATAGTCGGTGCTTTAGGGCA	CTCTTTGCTCGTACGCGGGCTTGT	GCATTCCAAGTTCTCCTGGTTTTG	65	216	169
58	116692	GCGCCACAACAACATTTAGGGTCC	TCCAAGTTCACCGTGGTTTTGCAT	GGATGCTGTCCTTATAGTCGGTGC	65	115	222
58	365016	TGTGGCATGACATCTTGTTTTTCG	CGTGGCGCAGGCTCTGGTCCCCTG	CGGTGCTGTCGAGTTGATGTAGAG	65	109	204
59	457336	GATGCTCATGGCTCACGTGGCATA	CGAACTTTACAACCAATACCAGG	AGAGTACTACGGCGCTCAGATCGT	62	200	123
59	457381	CCAAACTTCAACAACCAATACCAGA	ACAAGTGAACCCCGGAGCCGTGAC	ATTGGCTGCAACATCAAGTGGAC	65	161	116
59	457314	ATCTGGTATTGGTTGGAAGTTTG	GGCTTGCCGTCACGGCTCGGGGG	AAGTACCAGATGCTCATGGCTCAC	59	110	163
60	63452	GCACACGCGCATTCTGAATCCAA	GTGGCATCAGAAGCACCGTTGCCA	TCAGACGTGACAGGTGTTTTTGCT	65	305	148
60	196108	CATTCCAAATTGCCACAGGAACCG	CCGTTGCTCTCACAGCTGCTCCT	GGCACCATCCTCATCCTGTTCTAC	65	187	145
60	338117	TCTTTGCGCTGATTTGCTGGGTTG	GTGTTGGTCAGTGACAGCCTTCT	CGTGTGAGGAGAAATGAGAGCAGA	65	191	100
60	338189	GTGTTGGTCAGTAACAGCCTTCCC	TGCTTCTGCTCCCATTTCTCCTGC	ACTGTGGTGAGAGTTATGCGAACG	64	249	177
60	402417	GCGACTTCTTCAGGAGCCCCAGTC	GGAGTAATCCCAACTCAAAAAG	AACTTCAAACCACAATAAGGCCCA	59	386	224
60	402404	GTGTGAAGTCGTTGTGAGTTGTGC	ACAAAGGTTACGTTTTATTAATA	CAGCATCTGGGGACTTATGACCTT	64	124	162
60	402631	GTTTGAAGTTATAGCTGAAGCGAG	CATAGTTAAATAAACGTAACCTTT	GTACCATCACGCAAGCACATACAC	58	194	363
60	436713	CATTGCGCCAGCCGTGTCTCTTGC	TTTGCCCGCTATCCAGTATACCCG	AGCAAGACCATGACGTATGATGC	64	282	187
61	187003	GTGCGCCATAACTAGAGACCCCG	GCAATCTGCATCTTTAAGAAGCGC	AATGGAGAAACCACCAGCCTCTC	63	258	154
61	186886	TAGCCAGCTACGGGTCTCTCTAGT	TGATGCATTGAGTGCCTTCTTAA	ATGTGCAGGTCTGTTGGTGTGT	62	102	209
61	308899	GTGTGCGTGGCGCGGTATCTAACT	CTTTATTACAGGGAGCTTTGACGT	CAGCCTCTGACCAAATGAAAGTT	63	204	170
61	309260	AATTTGCGAGTTTGTAACTTGC	TTGCTGAGAGCTTTGCACGATATG	ATTGTTTGCACGTACCACCATAC	60	231	180
61	309201	CCTGAGTTTCTCAAGCAAGGTTA	CGGGAACCATAACCGTCAAAGCTC	ACGTATGGGGCATGTGATGTAGAC	63	126	169
61	428605	GACTGCTGCCATCCGCCACCCAC	CCGCACGACAATTCATGGTACAAC	CTATCGGACACGGACTGCCTATCT	64	190	143
61	428548	TAAAGAATAAGTGGTGGGTGGCGG	GTGGGGCGGCGGTTGTACCATGAA	CCACCGCTCTACACCCTGATTTG	65	176	221
62	172665	CAGGTTACAGGCATCGGAAGTGAG	TGCGTTGTTTTCTGAATTTGGTAA	AGGCTCCACTGAACATCCTACAG	64	149	125
62	172712	TGCGTTGTTATCCGAGTTGGTTAG	AGCAACCACTACCAAGGAAGG	TTACCAACGTGGTTTCGTATCCCTC	65	240	193
62	172657	CATTTGGGGTTTTGCTAACCAAC	CACTACCTTCTTCGTGAGTGGTG	GTCAGCACTAGTTACGCAGGGGAG	65	177	214
62	241597	CACATTGATGCTTTGTGTGGGAGC	CCCTCTTGACCCGTTTCGGTTGTC	CATCCGTAGACCATCAGATGAACG	64	137	184
62	241725	AAGAGGGCTAGCGCCACTGAACGC	GGCAACAGCGTTACAGACCACCCC	TTGGTGATGAAGGGTAAAGCAGTG	64	166	125
62	315787	CCCAATCCAGAGATATGTAAGCTG	TGGTTACGTGGGCGAGCGCGACCC	ACTTGTCGGTACAGTAACTCCGGC	61	179	264
62	393620	CAGATTATGGCACGTCTTACAAG	CCATGGCAGCACCTAACCTCGCAC	CTAGGCGTAGACCAAACGCATTGT	63	147	201
62	407311	GTTGCAACTTTGCTCAACGTAACC	ACGACGCAGGGCTACAGTTGCTT	AGTAGGTACATTTCCGTCTGCGCT	64	152	178
63	80909	TACGACTACTTCAACAGCAAAGAT	CTTCTGAGTGGAGAGCGCGGGG	TTCCATCCAACCTCACAGTCATA	64	196	165
63	80940	TACGACTACTTCAACAGCAAAGAT	GGCGCGCTGATCATGGAGCTGGCC	CATCTGAACATCAACCCAACGTAT	57	160	217
63	144449	GCCTGCTCCTTGTTATTCTTCTG	TGATGTTGTTAGAAAATGGCTGAA	AAGTGGACTCGATTGGTTCTAGCG	62	248	179
63	144371	CACGTCTTTCACGCCAGAAGGAAT	CGCAGCTCTTATTCAGCCATTTTC	CGCAAGACCGTGACCTAACGTAAT	65	171	237
63	144606	TGATGTTGTTACACAATGGCTGAG	CTAGAACCAATCGAGCCACTTTCG	GGCTCATGGCCAAGGTAACAATA	61	309	152
63	144437	CGCAGCTCTTACTCAGCCATTGTG	CAATCGAACCTGTCTCGAAGTGGG	GGCCTGCTCCTGTTATTCTTCT	65	105	266
63	202366	AACTCTGGGATATGAGTGCCTTG	TATCATATTTATGATGCGTTTAGA	AGCATGACTGCATGAGTGTGTGAT	64	174	203
63	202547	CCCAGAGTTTGTACACTAAACGCT	ACGTCTTCTGCGAAACATGTGGC	GAACCTGTCCTCCATTGTGATTGG	65	276	133
63	291664	TATATTCGCTCATGCACTGTTAGG	GTCACCTGTCAGGCGCGGGATGA	TGCAACGACTCTTTCATGCTTCTC	62	160	241
63	291828	GCTGGTAGGTGGGCTCCATCCGCA	ACGAGTCGGATAGTTCTACCAT	AAACCAGCAGCTATCTGCGGAC	65	292	217
64	456234	CCAGGACCTAATTATGCATATTCC	GTAACGGTGACAATGGTGGTGTTT	AAGGTCAATCACACGGACCTAAGC	64	238	164
64	456363	GAAACGGTGACAACGGTGGTGTTA	AGCAGCAAACCTGTTTAGTCCGTT	CAGCAAGCTTCATCTGGTAGTGGA	64	329	200
64	456212	ATAACACCACCGTTGTCACCGTTT	GGTCAATCAAACGGACCTAAACAG	CGGACAACCTAGCTTATGGCATT	64	162	299

65	152187	TGGGCAGGACTCCGGCATTGGTT	AGCGGTGTGGCGAAAAGCTTACAG	AACACTCATGGAATCCAAATCCGT	64	203	116
65	242755	AGCTCACAGTGTGTTCCGTGTAAC	GCAGTGTCTCTGCCTCCTGCTCC	TAGACATGCGAAAAGCAGAGAGCAT	63	156	298
65	242983	ATGACTGTGCGTACTCCATACCGT	TGCACGGCTTCCCTCATCATCCA	GAGTCTTGCAAGTATGAGCAGGAG	64	124	181
65	243363	GCAATCGCCAGATACATCAAACCT	GCCGTCCCAACTAGGTAACGAAGA	TACTCTCATGATGGCAGGATGTGC	65	199	313
65	243477	GCCGTCCCAACTAGGTAACGAAGG	TTGCCACCGTGTAGACTAGCC	GAGTGGTCGGAGGTTTGTATGAT	64	149	180
65	244292	GCGTGTGCAAGTATAGGTCATGTC	GGTTAGTAACTCGTGTGCGAAGAA	GCATAAGTACTCCGGCGTATGG	58	281	167
65	244170	AGTTACCTATCAAAGCAACATGAC	CACACGATTAACCTAACCCATGTT	TAGAACAGATGCGTATTTGGCAG	56	122	215
65	274245	TCCATTTGAGGTAACATGTCTGCT	AACAACCTCCGCTGCCGTCTACAC	CACCTTCTCGTTTGTCTTCCACAT	65	242	176
65	274171	GCAGAACGCACTGAGAGCAGACAT	TGTGAGTGTAGACGGCAGCGGAGG	CTTGAGTTCGCGCCTAAAACAGAC	65	157	213
65	274638	AGTCGCATATTGTACGGGAAGCAG	CGATAAATGCAGCCAACCCACACC	CTTCCACCATCCTCACCACCCT	65	135	231
66	54114	GTGTTGACGTTTTTAAACGGAGTCG	CAAAAGCCGGACCCGGCCTTGGAG	CAGTCGTGGTTGGGAGGTTTTAAG	63	176	254
66	78385	CTTCTGACGGTCCCGCTTGCACAT	GTAAGTTGCGGGACCGTATGCAGA	AATATACACATAGGCGTGGGTGCG	65	275	193
66	78366	ATACGCTTCATACGGTCCCGCAT	TATCTACTTGCACGCGCAACTCC	CTTGCGCATGTACCGTATTTCTG	64	142	230
66	173276	CACATAGATAAGGCGCGATGGGAC	GGAGCAGAACGCTCCAGAAGCCCC	TCAGCTCCATCTCCAATACTCCA	65	191	240
66	175382	CTGGTGGTTCTAGGCTTGGCAAT	CAGACGAGTGCCTGTTGCGTGGC	TACCTCCCATGATTACGGGACACT	64	168	258
66	239955	GCGGTTAATTTGCATTTGTAGCTG	CATTGCTCACTCCAACGCGACAGC	TGTGATGTTGCCTTTTGTGTTGTG	63	124	211
66	399797	CGACACTTTCCGCGCTAGAGTGTA	GCTAAACGTATCTAGAATCAGCTT	GACGTACACATAGGTTTCTTGCT	56	245	190
66	420119	TAAGCAACTGCAAGTCCGCCAGTA	AGCACTTTCCGTACCGTAGTTTCG	TGAGTGTGGACAGCTTAGGAGTG	61	139	101
66	420065	TCCATCATACTGGCGGACTTGCAG	GGACGAAACTACGGTACGGAAAGT	GTGTGAAGCAGGTAAGCAACGTGT	64	130	164
66	420099	GGAAGAACTACGATATGGAAAGC	CCGAAGATACGGGGACGATGCGAT	TGTGAAGCAGGTAAGCAACGTGT	59	163	202
67	162696	TACTCGAATTGAATACCGTACCGG	CCCTGCTCCTAGAACGCAAGCTTG	GGAGATGGCCAGTAAGTTGAATGC	65	176	111
67	271173	CTCGGACCTGTAATCCACACTTG	TGTGACATAGTAAAGTGTTCAC	GCAAGACCAACATCGACTTTTAA	64	159	189
67	271370	CCCCATGCAACCTTTCACTCTGG	ACAAGGGTCTGAACGAGAAGAAA	ATTGTTTGCAATGCGCTCCTTATT	64	291	143
67	353247	GGTTCATGACACATACGACGACG	ACCGCGAGTGCCTTAATGTTGGAC	CTGTCAACACCGCAACAATACGAC	65	163	242
67	353326	ACCGCGAGTGCCTAATGTTGGAT	TGTAGATAGTGTATATTGTTAGC	CCCTATTTACGTGGACAGCAAC	64	129	280
68	101809	TCAACAGCCCTTCTTCTCATCCAT	CGGCTCCGCAAATGCCACAAACT	AGTAGGAGGCAGCTTCGGAGAAAA	65	128	162
68	101947	AATGTGGAACGGGTTTGTGGGCAA	CTGATGGGGCAGAAGTCTTGGACT	TACCAAAGCACGAGTTATGCCTGA	65	235	143
68	195121	CCGCTGAGCCCATTTCCGGTGTGAT	CTGAACAAAAGTATACAGTTGAGG	AGGTACACTAGGAATAGCACCGAC	55	320	170
68	209187	AGTGCAGAGGAATGCGCATGTTTT	CAGCTCCAGACGGATTGGTTGCTA	TGGTGTGTTGTACTTGACATGC	64	363	201
69	139733	GCGTGGCGTTTCACGAACACTC	TTCCGGATCACCTCGAAGATGAGT	GGTGTGTTTCCCGTTGTTGTGAT	64	338	174
69	139556	TGGAGGTTGCTCATCTTTGAGGTA	GAGAGAGAATAGTGTGTTCCGCG	ATAATTGTGCAGAACTTCCAAG	58	275	113
69	139765	TTCCGGATTACCTCAAAGATGAGC	GTACAGGTGCAGCAGAACAGTAG	GTTGTTTTCCCGTTGTTGTGAT	58	173	141
69	139718	TGGACGGTGTCTATCTTTGAGGTA	GGGTGGCTGATACTACTGTTGCTG	CTTCTCTCCAGTCTCCTCCCT	64	173	209
70	356637	GATAGGCTTGCTGTGGCGCAATCT	CCCAGGCCGTGAGGCATTTGCGTG	CTTCCAGCAGCGATTTAGGTGTC	65	124	249
70	459753	AGGACAGTGAATCTTGACAAT	GTGAGTGTGGCAAGGTTTGAAC	GATGACGAATTGTGTCGAAATCC	65	299	218
70	460185	GGGTGCCTCTTCAAGCTGCGAAAA	CGTGTGGAGAAATTGGGGTTTGA	CTAAAGCAACCTGACCTGCTGACA	60	249	138
70	460052	CTTTTCGACGCTTGAAGAGGCACC	TACATCCAAACCCCAATTTCTCC	GGGATTTGACACAATTCGTATC	65	152	267
71	121299	GGACGTGTTGAGGATGCAATTGTT	AGGAGAGCCCCCGGCATCCGGAC	TGGTAAGACCATTGTAATGCACGG	64	112	156
71	121637	TCAGGCGCCTATCTTCAAGCATC	CGAGGATGGGCGCGGTGTAAGG	TACCTCTTTGCGAAGTATCCAG	65	137	246
71	219568	GATGCTACGCACACTCACACTTA	GGCGGTGTCTACCTTGGCACACGC	GAGCAGGCAGACAAGTACATCAGC	64	101	148
71	278902	CAACCCGTAGCAGAACCATAGCAC	AATGTTCTAATTGCCACCTTTCCA	GTTTCGTGGGGTGGATTGATATACG	65	190	326
71	279038	TCGCCAACACCAGGCATAAAGGCA	AATGTTCTAATTGCCACCTTTCCA	GGTCAATTTGTATGCACCGGTTT	64	256	191
71	408912	GCGGTTCCATCAAGCAGCCTTTGG	TTGCACGCACTTGTCTGATGTAGT	TGAAGGTGAGTCCGTGAGTGTAT	65	219	183
71	439746	GCGCGTGATACGCGAGCGTTTACA	GACCTGTACCGTAATTGACAATCG	TGATACTGGCTTACACGACATTGC	59	197	142
71	447385	ATAGGAACAGCAGCGCGGACAAGT	CCACGGGCGTAAGGATGCAGCTCC	GAAGCACACATCAGCTCACAAAGC	65	106	238
72	127790	TGACTTTCCATCCACACAGCTCAC	GGTACGTGTCTACGCGCAGCACA	ATTCCCACGGTGGCCGAGTAAGT	65	142	252
72	146719	CACGAACTGCATGTCTCTGTTG	GGTTGGTGGTTTGAAGTTTGT	CTGCACACTATACACACTCGC	64	351	211
72	146703	CGCCAGTGACAAACCTCAAACCAA	AGCCGGCGCTAACGAATCAAT	ACTGAACCTGCATGCTCGTTGTT	64	170	218
72	148592	GCATTGCCCGACAGACGCGCCGCG	ACGGAACATCAATTGCCACACACCA	CAGCAAGAGGAGGCTTAGCAAGAA	65	178	120
72	213624	CCCAGTCCCCGCTCCTCAGATGTT	ACTGCCTAAAGGCTCTCCAGATTT	TTGTTTCTGGTGGTTTGTGTTGTG	62	233	197
72	213695	GTACCGGGCTCCCTCTCCTCTCC	CGTCCACACTTTTAAACCCCTCAT	GATTCTGATGTTGTTGACGAC	61	210	177

72	213651	ACGATGTGAGCAGGAGAGGAGAGG	GCGCACAGCGGACTATGAGGGTT	ATGCCGTATGCATGCAATGTACC	65	145	180
72	290736	TATTGTTCTGGCACAGGTGACCGC	GCCCAATCCAGTACCGAGCCCAGA	CGGTTACGTGGTAAGCATTACATGG	65	152	234
72	368211	CAATTGGAGGTAGGGAGGTTCCAT	TGCCATGTCCCCGCTCCTGGTGCTA	CTCCTAGGCTTTGCAATTCAGCAC	65	189	306
72	427414	AAGGGCGGGGACACTTGCCGTA	CCCGTTTCTTCCGTTCTCCTCCGGCC	AGTACGCTGAGGACATCTGGCAC	65	278	169
72	427297	GGGTCGTTGTTGTTACGGCAAG	CGCGGGCACCGGGACGGAGGAAC	ACAGCGGTGCAGCTAGTTGTTGTT	65	194	300
74	332072	CTCTTGACGACCACGCCTCCAA	TAGCGTTCACCCTGTCCCCTGAC	CTACCCGATTGGTTCTGCAATCAT	65	208	123
74	332102	TAGTGTTAACCGCTGTCCCCTGAT	GGGGGCACACACTGAACTCTTTGA	TACAGGTGTGAGACACCAGCATCC	63	245	215
74	332180	GTGTGCACAACTGAACTCTTTGG	AAACCAATGCGGCAGGCCATTCTA	TACAGGTGTGAGACACCAGCATCC	65	215	137
74	332088	CGGCTGATGCCAAAGAGTTTCACTT	TGGCCTGCCGATTGTTTTGCAC	ATTCATCAGGAATCTCTTGCAGGC	64	161	225
74	428420	CGCGTGCAAGTGCTTTACTTCGTT	GCGCGCGCCTGACCTCTCGCTGTG	CTCGCGTTCACAGACGTCAGATAG	65	123	173
75	121585	ATCTATGACCTGCTATACCTGACA	CTACACCGAGGCGCGGCTGTCCGCG	GCCTCTTACTCTAATCTGCACCCT	57	137	180
75	382354	CCCACCGGCTACTCGCTGTACGTG	CATGCGCCCCATCAAGTAAAAGCG	CTGGAGTGCAGCTAGCCAGTCAG	64	199	134
75	382821	TGCGATGCTTGGGAATGTAGGGTG	GACAACTGACGCATCAGGTTCTA	CCCCTCTGCTACTTCCCTTGTCA	64	255	164
77	298189	AGTTGGATTAGTAGGGTGTCTGA	TCTGCTGTCTGCCCTGGATTACCT	CACATCAAAGTTGCCATGTAGCC	64	310	222
77	298216	CATCTATCCACCCTATATGCCCC	AAAATCTCAGAGCAAACCGAGAGA	TACATATACCCGAACAGGGGTGA	62	115	150
79	178134	AGATACAATTCTGCATAATGGGAC	GGCTCATTACCTTTGGTGCCCTG	CACGACTCACGCTCAACTGTTCTT	65	294	136
79	178111	TAGGGACACCCAAGGTAATGAGCA	ACGCTCAACTGTTCTAGACCCGAG	CCGGAAGGCTACGAATGAGATACA	65	199	303
79	178215	ACGCTCAACTGTTCTTGACCCGAT	AGCTGGGCACCCATCACACGCGC	GTTTGCTCATTACCTTGGGTGTCC	64	131	216
79	318598	GGAGTTATGCTGTGTGCTTTGCAC	GCAATGCTGCCGAGGAGAGATGAC	TGCACGTACATACGTCGCCTATTC	64	301	200
80	164322	TAAACCAAACACCAAATCCGTCCG	ATCCACAAACCCATGACTATAAT	CGCCAGTGAGTACAGCACATACAC	64	100	206
80	165030	CAACTTCTGGGAGATCAAAGAGGC	GGAGATAAAATGAATTGAGTGCCC	AAACCCGCATCATTGGTTACAT	58	271	177
80	191342	CCATGTGTGTAACCTCAGGATCAT	CGCAATGCTTGCCTACCCTAACCT	CAGCATTGAGTTCCACACCTTG	65	186	123
80	191334	GTTTGAGGCATGGTTGGTTTAGGT	ACCTTGAAGTGGCCACAGCGTA	CCCATGTGTGTAACCTCAGGATCA	64	103	169
80	191460	AACGCCCCGAGGTCTCACCGTCTGA	GCTGGGGGTTTTGCGACACAAGTAT	CTCCTACGCAGATGATTGATGGTG	65	172	121
80	191400	ACCTTGAAGTGGCTCAGACGGTG	ACTGCTTTATACTTGTGTGCGAAA	CACACAACACACACGTCGTACACA	65	133	178
80	373642	TGTTGGATTGTTGGCTGAGTGCGA	AGTAGGTATGCCATGACAAAGGGG	CTACACAATGCCACCCTCCGTATT	65	188	142
81	46165	GCTTGTGGTCTTGGCGAGAAAGGA	TGTGGCGGCGGGGTTGGGGACGT	TTCCCAAGTCGAGTAATCTTCA	65	122	212
81	139004	CGTCTGGCGGGGCGTACCCGATA	GCTCATGAAGAGCAGCCACACAT	ACTACTAAAGCACAGCCGTCCACC	64	331	179
81	404488	CAAGCGGGTTTCATCTGTGTTATC	AAGCCTTTCACAGCCCGGAGCAGA	GAAATCCATTGCTGAACCTCCAAC	63	152	300
81	404814	ATCCAGTTTGCATCTGCTGCGAT	AGTCTCTCTGTCAGACTACAGAG	AAGCTGCCCCCAAGAAGTCTC	62	226	171
81	418844	ACAGCAACAAGAAGTCTGCTCCA	TTCCGGCCGCGGCTTACCTCCCT	CAAGTATGCCATGGGCTAAGCG	65	186	216
82	254438	CGTGTGGCGTCCGACTTGTCTGA	CATTGCACCAATTGCCTCCCCTACT	GTCGAACGCTGGAGTAGCTGTACC	65	229	166
82	254361	TAGCACCCTCAGACAACGTGCGA	ATCCTCCCAGTAGGCGAGGCAATG	AGTTTCGCTTCAATTTGCTATGCC	64	200	262
83	132304	TGGCGTCGTGACGCCAATGAGTTG	TCCTCAATCGTCAACCACCTGTG	GAATTATGACGGTGGCGATAGCAT	65	248	178
83	132222	TTTCTTCAATCCAATCATTGGCG	ACACAGGTGGTTGACGATTGAGG	TACATACACCATTAGCGCATTGCC	64	176	236
83	132455	TCCCTCAATCGACGACCACCTGTA	CTGATGCAGTCGCCACCGTCATGG	CAGCAACGCCCTCTTCTGCTAAG	66	283	132
83	132282	ATACAGGTGGTCTGCGATTGAGGG	CCAAGAACCATGACGGTGGCGACT	AAAGAATGATAGCATTGGCGTCGT	65	110	267
83	132439	CCAAGAATTATGACGGTGGCGATA	CACCGCCCTCGTCTTTAAGGCGG	AATCGACGACCACCTGTATCTTCC	64	176	274
84	131266	CCGGCATGCCGCCGCGCCCTCA	CTTGATGGGCACACACGCTTACCA	CCGAGTAACAACGTGTGGACGTT	64	289	200
84	131406	CTAGGCAACTGTGTCCCGTAGAC	CACGCGCCTGTTCCCACTTCA	GAGATGTCCAAGTGTGTGGCTGT	65	177	132
84	131341	GGGGTCTACGGGACACAGTTGCTC	GTTGGTGGAGGGGGTGAAGTGTG	CCATGCCATACTTCATAGGCACAC	64	132	189
84	132363	CTAGCAAGCTTTGGTGTGAGGCAT	CGACACGGCGGGCGAGTGGCGGC	TCACATGGCTATGTAGAAGCACCG	65	180	308
85	300400	CAGCAGTTTAGGGTACACATTTGA	AGTAAAGGCAAAAACAGCCGTGC	AGTGTCACTTGGGTTGGAGGCTAC	60	108	241
86	266062	CTGTTTGTCAATGCCCTTGCGTAT	GCCGTGCCATGGCATATCCACAC	TTGCTCGATTGGTCTAGACGTGAC	64	195	261
86	269681	GCGACTTTTTGGCCTGAGTCCTTT	CTGTTGTAGAGAATACTGCTTGTG	GTCCTACCCCTTACCCAGATGC	65	164	286
86	269945	GTTTCATGGTCTGCGAAAATTGCAC	GCGCTTGCACTCTTTCATGTGTA	CTCCTCAGTCCGTCAGTAACTCC	64	275	185
86	276805	TCTCGTCCACCCCAATGCCGCC	ACTACGACTGTCACTGTCTCTGG	TATTTACAGTACGAGGTTGGGG	62	251	138
86	344292	GCATGGAAGGGCAAGGCCAGCCTG	ACTTCGCTGACTGGTTTGAATTC	CTTGATCTTACATGGTCAGGGGG	64	344	210
86	344326	ACTTCGCTGACGGTTTTGAATTT	TTGACAAGTGCGATTGACCGATAA	CTTGATCTTACATGGTCAGGGGG	62	210	176
86	344281	AAAATGGTCAACAAATTCAAACCC	AAACATTATCGGTCAATCGCACTT	GATGATTGACAAGCTGAGTTCCGA	62	114	141
86	387606	GATACACGCCTGTGTTTCTCCGTA	TTCCATGTTCTGTAGCACTCGTT	ACGGGTTGTGACTTGTGAGGCTAT	64	152	243

86	434343	CAACCCCCAGAACCTCCCAATAAC	CAAGTGGTTCACACGCGTATATG	ATAACCCCCTGGTGTGTTGAGT	65	103	168
87	55136	TGATGATTCTATGGTTTTGCAGG	TGCGATGTTGTGACGGTAGATGTT	TTCGCAACCTGCCTACTATGTGAA	65	211	178
87	55088	CACACCTGCCTGCAAAAACCATAGG	GGCAACCCAACACAACATCTACCG	ATCACGATGATTGTTGATGAGGGA	64	150	188
87	233808	AGCAGGTTACAGTTGATTTGCACT	CCTAACACACAGGTTATGCCTATA	CCTGGGTACCTGCATCTATAAGCG	61	327	162
87	233631	ATGACTACATAGTGCAAATCAAG	CCGCTTGATAGGCATAAACCCTGTG	CATGCATACTGGTGAAGATGTGT	58	102	263
87	344912	ACGGTACCTCCCAACCATGGTTGA	TGATATCCGACTACCCTAATGCTG	GTTTTATTCCCAGATGCAGCCATT	60	284	144
89	78324	CCTATGAAACCTTTGCCTACCGGC	GCGATTGACGCGCTTTGGGGACG	AATCACCATTTCTTCACATGGCCT	64	113	264
89	78881	AGGCCAGCCGCAAAACGGAGCGCC	ACACAAGGAGCCACTCCAACAACG	GTGGTACACAGCCTACAGTGGTGG	63	287	210
89	107093	AGTAGGCCGGCATGGAGTGCTTGC	CTTGATCACACATGTCCCATCCA	GAGCTATGTGCGTGCAGATTGAGT	64	190	154
89	253461	TTTTGAGGACAACAAAACCTGAG	CCTTGGCGAGGGTGGGCTGTAGCA	CTTCAACAAGAACTCAGCGCACAT	61	145	195
89	287019	TTCACACTCCAAATCACATCCGCA	CTCCCGTCGACGCAGCACCCGTG	GGCGTCAACTGGTAAACAACAACA	65	163	206
89	287211	TGGGGGGACAGGGGTGCTGCGTCC	TGTGGGATCAAGTAGTTCACAAGT	TGCCACCTCACATGTGTGTGACT	64	275	142
89	319656	GTGAGGGCCTGTGTGTCATTGAGG	AGATAGGATCCATGTGCATCGTT	GCTATCGTACACAGTCCAACAGG	61	342	203
89	319505	TTCACTCACACCTCAATGACACA	CCTCTTGAGCAACAGTGCACATGG	TCCATGTGCTTCTAAGTGTGCTGT	64	100	238
90	207840	TAGCGCAATACTGTGACAGCCTGG	TGGATTAAGTCTGTAAACAGCAT	ATTGTTGTGACGGTGGTGTGATGTG	61	279	210
90	207957	ACAGCGAGACAACAGAAAGCATCA	TGCTCCGTGTTGAGCCGGTGCGGC	ACATTGTGGTATGGTGTGTTTGGC	64	229	129
90	207840	AATCACTGATGCTTTCTGTTGTCT	ATGCTGCCGACCCGGCTCAACACG	TGTGATACTCACTGCACCCACAC	59	168	267
90	207939	ATGCTTCTGCACCGACTCAACACA	GCCGTCCTGCCCATTGTCGATTA	CGTTATGTTCCACCTGCATGATA	65	171	206
90	208025	CCTCAATCGACAATCGGCACTGAT	ACACATCACAACCCCTGACAACAC	ACAGCGATTGTGCTGAATGATAGC	64	152	121
91	218513	GATAAGCAATCTATAGTGCATGGT	GTCAGCGCACAGAGTAAGTCTC	CAAATCGGGAATCGCTTCACAC	65	246	145
91	218389	ACCATGCACTATAGATTGCTTATC	TATAGAGACTTACTCTGTGCGCT	AAACATACCAAACGAGACTTGTGC	56	167	272
91	226964	TCAAGCGGGCGGGCGCCGGCGCGG	TGCGTGTGTGTGGCGATGGAGCG	CGTTGACTCGTTATGGCATGTTGT	65	305	221
91	408469	TGCAGCTGTGAAATGCTGACT	TGAGGCATGATGCCATGTGGCCGC	GAAACGTGTTGCAATTCTGTGCGAG	65	143	259
93	282752	TGCATCGTCGGGGCGTCATGCACG	TGGGACCTCTGAACATGCACATAAT	TCTCGGGAAGGTAACCTGATGAAA	63	238	154
94	32079	TTCCGCCCTATAGCCCACAGGCGC	TTGTCCATAGTTAGTCCCCTTCTC	CAAGACACGCTTGGTGTGAAGTG	65	173	107
94	109278	TTCCGCTAACGCTTGCTCTCTTGCT	CGTTCCGCGCGGGTGTGCGGGGC	GAAGTCTCCAGCTTGTAGGAGCC	63	200	252
94	111014	GCGAGCGCCGTGTCATCCGCTTT	ACAGTGTGCCCAAATGTGTGTGAC	CCAGCCTGTTATTGACTGAGAGCA	64	213	175
94	110964	TTTTCTCTCGAAAAGCCGGATGAC	TATGAAACACAATAATCACACACA	AAACTCGGGTGGATTGAGAGGTC	64	200	241
94	143948	TGGTTTGATGGTACTGGTATGCGG	GTGGGCACGCAAGGGATGCACATA	CCTATCAGGCGGACATCAATGC	65	194	351
94	144178	TTACGGTAGCAGATGTGCATCTAA	ACATGAATCAAACCGTATGCCAT	ACGTGATGATTTGACGGAATGAGA	61	279	218
94	236972	ACGGCTTACTTCTTATCTGCCAA	TCCCTGGCTGTGGCTGATAGCGGT	CCAGGAACCTGTTTGACCAGCC	62	101	157
95	125256	GCGGCTTACCCGAGCAGCTGCAAG	TCCGGTAATTTGTATGTGACGTGC	GATGAATTCTGATGACAACGCTAC	64	288	214
96	137666	CTGGTGTGTTGGGGGCCCTTCATC	ATCGCAATTTACTCGCGTGCCAC	ACTCCCTCAACAATCCAAAACCC	65	262	218
96	137666	CCTTGACTACGATGCAGGCGCTTT	CTTCGCGTGAGCTACTGCAGGGGG	AAGTTACCGTTCAGGTTCCCGATT	65	178	300
96	140139	GTCCAAGGTGCAAGAGCCAGTGGA	ATCAGGTGTTCTTTAGCTGGCATT	TTCGTCACCAAGTCTGTCACCCTA	62	324	185
96	139981	CACATCCACTGGCTCTTGACCTT	CACCTAATGCCAGCTAAAGAACAC	CAACTGGGGCTCAGTGGATTCT	64	122	262
96	140433	ATAAGACAGTGCATCGCTCGTCC	CAAGCCCTCTGTACATGCCTTATA	TGGCTGAATAGGGTGACAGACTTG	64	188	316
96	248874	GTGTGTGCGTGTTCCTTTCTTTG	GCACAAGGAGAGAAAACGTTACTTC	CTGGGGATAATGGCATTCTGCTAC	64	133	202
96	342154	GGATTTCGCCAGCGTGCATCCAG	GTA AAACTGTGGACACGGCCCTC	ATTAGACAGCGGTTGGGTATGTGT	64	304	207
96	342321	TGTAGCAATTAGAGCAGCGGTGGG	TGGCCGAAGGCTGGCTGATAGTGA	GCGCAAACCTTAACACTACTCC	65	159	310
97	93967	CAGACACAGTACTGAACACTTT	TCACTTTTGTGTTAGCGTTTGCCAA	ACATGTGGGGTATGTTTGGTTTCC	63	347	203
97	93802	GGAAAGTGTTCAGGTACGTGTGTC	TGTTTCAGAACCGTTTGGCAAACG	ACCAGAGGCACTGAAGCAGTAGGT	62	171	327
97	144222	GACAACCTGGCGCATAGGAAGTGGA	CAATGCGGAGGTGCGTGCGTAAAT	GTCCACGTAGCACTACCACGAATG	64	216	123
97	144440	ACCAGCTAACAGCTTCAATCCATC	TTGAACCTACCAAAGAATCCTTTT	CGGTATTGAGAGATTGGTGACACG	62	192	304
97	268518	TATGATTACAGGCCGAAGGCGAGTA	TTTGGGGTCTGTTTACTGCCGGG	TTGTCCATCCTACCTGCTTGGTTT	65	171	278
97	268390	AATGCATCTTACTCGCCTTCGGCC	CACCCGGCAGTAAACAGAACCCCA	CAGAGCGGCTTACACTTGGCTTAT	64	235	121
97	268539	GTGCGCTTCTTTGCCTGCACCTAT	CCCAGTGCATACCTCCCTGATCCA	CGTACTCGGGGCTTTTGTGTTACTG	64	180	233
97	268723	GGGAGGTGTGCACTGCGACGTACC	CGAGCTTATGGCTTCAACGTGTTT	GCTTAGACCTCCCTTTCCAGC	64	216	115
97	384208	TGTATCGGACTGGTGGCTATCAC	GGTCAATGTACATGTTTGGCTGTC	CAGACAGTCAATTCTATGCCACGG	65	167	337
99	75831	TACCGGGATTACAGACCGTAAAC	ACCCGGGGTGTACTTTCCAGGAGT	AAGGACCTGATTGCTATGGCTCTG	64	230	119
99	75875	ACACGGGGTCTACTTTCCAGGAGG	GGTGTGAAAGAAGGGGTTGGCTCA	ACATACTCGGTCATACCGTCTG	64	192	148

99	75817	TGTTTCGCTTCTCCTGGAAAGTAG	AAGCCAACCCAGGTGAGCCAACCC	AACCCGATACCCGGGATTACAGAC	65	151	199
100	158683	CTCCTAGCTGCTGCGGGTTTAGGC	GCGCCTGCCACATTTGCATGTCGG	TGTTTCTGCTCCTGACAACCTCCAC	65	176	272
100	158825	TGCAAGCAGCGTCGACAGGCAAAC	CATAACGTCCTGGGTAACAGGCGG	ACTGTTCACTCAACGTCCACCC	64	138	104
100	159367	GGGCCGCCCCAAGTTCCTGTTTT	GAGGTGGATTGGCAACTTAGATT	AATATAGGCAAGTGCACGCACAAA	64	211	139
101	56197	AGGGCAGCAGATGGAAACAAGATT	GCTGCGATCGGGGGCTTAGCCC	GTTGCCAAACAATCAATGCGTAA	64	198	254
101	60716	AGTTCGCGAGACCGTGTAGTACC	GCGCTCTCTCCTGTGCTGCTC	GTTTCAATTTTTCGCGTAGGTGAG	64	158	183
101	292849	AAACAAACTTTTTGGGAACTACA	CCACGCTTGGCCCTCCGCCCC	TGTGTATAAGCTGGTGTACATGG	57	181	248
102	38652	CTTGCAAAGAAGAAATGAATACGG	CTTCGGCAGAAACAATAGCCGCTCA	TGGAAACCAGTACAAGCGAGAAGC	61	114	231
102	253228	ACCGCGGCGAGGCGAGCCGAGGTC	TGGGCCGGCTAAATCAGTGTCAAT	TCTCGCACATCAGCATATGGTT	65	248	181
103	4719	CAGGAGTGTGCAGAGGTCAAGTGT	AGGTTGCAACAGCTGGCAGGAGC	TTACGAAGCTGGTTACAGCAGCAC	64	200	310
103	4896	TTCACTCCTGCCTGCTGTTGCAAC	CCCCATAACCTAAAACCTTCCCC	GTTGTTACACCCGGTGCGGTAAAGT	65	153	106
103	4883	AATGATGGGATGGAAAGGTTTTAC	GAGCGCCTGGAGGGCTGACTTGTC	TTGACCTCTGCACACTCCTGTACC	61	184	277
104	35795	GCCGTGCGCCGAGGCGCAGCCCGC	GGCTCGATATTATCAGCAGAAGCA	AACAATGCATAGTCAATTCGCCCT	63	194	135
104	272052	TGGTTGAAATCATAGTCCAGTTTC	GCGGTACATGTGTAGCTTTCCTTC	ACTTACTCTGTGAAGCTACCCG	64	207	149
104	271981	GGTTACTACGAACTGGACCTATG	CCTAGAAGGAAAGCTACACATGTA	ACAGTTCAAGGCTGCAAGTGTCTG	61	143	195
105	70634	TACCTGCCAAGATCCTACACCTGA	GCGGCCACGATTAACACGCGTAC	TGATCAGCCGTATAAATTCAGGGC	64	159	189
106	214752	GCATCCTACGCTTTTGTCTTTTCG	AAGAAGGTACAAGATCCGGCATT	CCTGGTTCCCCGATGACTGTCTC	64	139	270
106	215024	GGTACCTTCTTGCCATCAGTGGT	TCCTCTCTTGTAGCACAGCAATCA	TGGCTCGACATTCGACAATAAGA	62	278	173
106	222900	ACGTAGTTAAGGACAAGACCCGCT	AGATTCCGGTGCATTTTACTTTCCG	GAGAGGGAGAGCCACTTTGTCTTG	60	300	187
106	229560	TCGGTTGCGTCTGGATGTATCTCA	TAGCGGTGTTTGCGCATTTGTGTG	TGTCCTACACTTCAGCCTGCTGTT	64	157	103
106	229483	TGAGATACATCCAGACGCAACCGA	TGCTACACACAAATGCGCAAACAC	AGAACGTGATGTTGTGGTGGGC	66	200	259
106	229956	TCGCCGTACATAAAACACTCTCG	GGTTGTGACTTTTGTGGCTTGC	AAGCGGGATAGAGACACACTCCAC	65	289	166
106	287225	TCCAGTCTGCCGCTTGGCTTCTC	AGCCGGTGGCAAGGCACGAAACAG	AGAGCATGCATTGACACCAAATGT	64	221	167
106	306299	TTTATGAGGAGCTCTGCTTGGCGG	TATTGCGTTTTGAGGGGCGGAGAGA	CCTACCATGCCAAGGATACGGATA	65	138	194
107	132211	ATTGGACGGATGGGGGCTCCCTGC	CAACTGGCGGTGCTTTGACTGTGA	TCGTACAAAGCTACGCTCCAAACA	65	264	186
107	132374	CAACGGGCTGTCGTTTGTACTGTG	GTTGAGAAGTGTAGCTTTGTACGAC	ACCTTCCGCCACACAATAAGGAT	62	294	131
107	132192	CGTACACAGTACAAACGACAGCCC	CTAGTCGTACAAAGCTAAGTTCTC	GTAGGCTGGAAGATTGGACGGAT	64	118	280
108	36564	CCTGGAACCTCAGCAATAAAAGG	TGTATTGCAAAAAAAAAACCGCT	GCCATGGTCGTGAGATCAAAAACCT	62	196	312
108	56928	GCACACGGAGGGACGTATCGTGAC	GGGGTCCCAGCTGGAAGTGTGTT	ACTTCTGGATGGCACACTGTGAAG	64	233	164
108	57036	GGGGTCCCAGCTGAACTGTTGTG	CATGCAAGTGTGGTAGTACGTGAA	TAAGACCTAAGCAACCCGGCGAGTA	61	275	167
108	56904	ACAACAGTTTCAGTCCGGGACCTC	TGTGAAGCTTCCGTATTCAGTAC	TCACGTAGGCAGATGAGGGGTATT	65	145	269
108	115702	GTGTGCTTCCAATGCTACCAAGTCA	TTTCAATAATCCCCGCTGCGCGC	GCAAAATGTTTCAGCAATGGACAA	65	189	248
108	115808	GTGTGCTTCCAATGCTACCAAGTCA	GCATACACGGTAAAGCGCAAACGT	CGGTATGTATGAAACATGGAACGC	64	278	172
108	115693	ACTTGTGAGGTTTGTGACTGGTAG	CACAAAGACGTTTGCCTTTACCG	CATCTCCGCACGTGGATACTATGT	59	197	296
108	232865	AATGGTGCCTGAGATCGTACCGAT	CCACACCATTACGCTCCCCTCTCC	TGAAAGTGGTTCAGGTGCCTTAC	65	251	200
108	232857	TTGTTCAATTTGTAGTGTGAGGGG	CCTATCGACACATGCCGAGGCAA	AATTTCTTCCAATGGTGCCTGAGA	64	100	213
109	254117	AACATATACCCACCTACCTACTTC	TGGTGAGTACTGGCTGAGTTCTC	TGGTGAATTCGACAGGGATAACT	64	177	124
110	6344	ATAGCCGCAGCCGTGTGAACCGTA	CCACACACCAGTATAGCAACACAC	GCGTGGGGTCATGTACTGTTGAC	65	171	131
110	6335	GAAGGTTGATTATCATGTGTTGCC	GACCCGGAGCGGTGGTGCCAGA	GACATACCGTAATCTGCAGCCTCA	61	168	241
110	8730	GCAGGAATCGAGGGGCATTACAAC	GGAGCTGTGAAAGCAGGATAAGT	AGGCTTAGCGGTAGGTATGAAGG	60	249	193
110	25703	ACGCATGCCACACACGTCTCGCAA	CTTCCACACACACAAACACACACA	ATACGTGTGTGGCGTCTCACTAA	64	183	146
110	43030	CGGCTGTATGCCTGAATGAATCAT	GGCAGGCTTTGCGACCTTAGCAA	TCATGCGTAAAATGTGAACCACC	65	275	151
110	143851	TTCCTCATTGAGCTCCTTGTCTTT	CTACATCGTTCTGCTTTCTCGGG	ATTGCTAATTGCGTTGGGCAGATA	65	199	148
111	67533	TCTGCGCACCGAAAATACCATCTA	GCAGCTCGCGTAGGCTGCATCTG	CTTTCGTTTGTACGCACAGGAG	65	369	220
111	67369	GGTAGAGCTAGATGGTATTTTCGG	TCAGATGCAGCCTACGGCGAGCTG	TAACGTGATTCCTTCGATTGTGCT	59	189	331
111	290147	CGGTACACATGTTACCGGTTTCCA	CGTTACACGTATACGTAGTCTCT	GACAGATTTGCACAGCAGGACTTG	65	125	160
112	43992	GGTGGGGCCCGTAGCAGCCCGCC	GTTGCTGCTTGAACGTGTAATA	GAACTTAGCTGATGCACAGGTTG	63	254	128
112	97234	GTAGCTCCGATGGCAGATCGGTG	AACCTTAACCTTCCGCACAGCCCG	CAGTTGCAAAAACCTGCATTATCCA	65	297	158
113	208782	TTGTGCGACTGCTCGAGCGACAAG	GCTTCTTGTGTGAGAATGATGCTG	AGGGTTTTCCCGTTATTGAACAC	61	205	171
115	64431	ATAAAGGCACCATTAACCGCCCG	TGTCAATACCCTCCCCTGTTTCATG	TATGTGTGTGAAAGTGCAGTCCG	62	242	190
115	64702	CAAGAGTTCCTGGTAGTTGAATA	AGCATTGAATAGCGCATAGGGAGT	ATATAGCCTATCGGGCTGCAGTTG	59	110	153

118	151337	GGCGAGAGGGAGAGAGGGGGAGCG	AACTGTACTGCACTGATTGGAAC	AAAACAAATGACACGCACACTGCT	61	183	159
118	151302	TGCAGTACAGTTCGCTCCCCCTCT	CAGCGCGACACACAAGTTTCCAAT	TTGTGGTGGTGGAGGTCTTACTTG	64	112	139
118	151434	AACTGTACTGCACTGGTTGAAAAT	ACTAGGGAGCATAAGGAAGGGCAG	GGTGTGGTAATCATCACACGCTG	65	314	217
118	151329	CAGCGCGACACAAAAATTTCCAAC	ATTGCGCTGTCCTCCCTGCCCTTCT	TGCATATGCTGGTCTTTTGCCT	65	101	197
119	182373	TATCACCCTCGCACATTTTACCA	TTCTCGCGAGCGAGACGGCAGG	GCGCAGTCTAAATTTGCAACC	63	131	183
119	188417	GCAGCGCCCACTGCTGTAACATAC	GCGCGTCTGGCCGCTGCCACCC	TACTCGGGCAGTCAATCACAAT	65	193	270
121	35331	GCGCTAGATATTGTTGCACGTTAG	ACGGAGTTTGGTCGTAGGAAGATA	CTGCTCCTCGTTGACAAGTCCATA	62	100	193
122	50544	ACATCGACTCGTAGCATTACAGCG	AGGGGGCCCAAGGAAGTGTACGGT	GAAACTCCATATCATGGCCACTCC	64	110	180
122	50808	AGCGTTTGCGGCACTGGCGGCGCT	GGTCCCCCATGGTTTGGAGGGGA	GTCAAGCTAAGCCGCTCCCTTTAT	64	248	130
122	156118	GCCGTTAGCGACGGCAGAAGCCTT	CCTGTCTTGTGGCTGCACTTAC	GAGCAGTAGTGGCAGACAGTGGAG	64	261	215
122	156135	GGAGTAGCAACATGACTAATGGGG	AATCATGCACTAGCAGGGCCAAGG	CACCACATTTGTACGCAAGAGG	63	178	256
123	151769	ATGGTGAGCATGGTCAGGTAGCTC	CGAGTTAAGACAACAATTGAGTTC	ACCATATCACCCGCTACTCCTGG	65	148	207
125	41586	CTAGCGCTGCAAAACAACGTTAT	GACACCGTGTACAAAATGTCCGAC	TGAGGGACTCCAGATGGAGAAATC	63	272	181
126	70052	ATGGTCCATGGTGAACGATGGATT	CGTCAGTCAGGGCCGACCTGGTG	ACCCACATATTGCCTTGGCTAA	64	218	110
126	69930	GATATCCATAATCCATCTGTTACC	GCAGACTCACACCAAGGTCGGGCC	GGTGTGCTGGGTACTGTGGTTTC	60	100	210
126	102579	TGCTACACATCAGCAATTACACCC	TTATACTAGTTCACATAAGCAACG	CCTCTGTAACATCCGCATCCAATA	63	102	243
126	157293	TGCCGCATCCAACAACAAGTAGTGA	CGTAACCCACAGCGCCGCTAAATC	CCAGCCTGCACTTTCTGGTAGTC	65	185	157
126	157249	ACGGTTGTCAGTAGTTGTGTTGGA	TGGGCTACCTGAATAGATTTAGCG	TCCATACATGTCCAGACTTCCT	62	171	207
127	37184	GTACACTGTCGAAGAAAGGGTAGG	CCCGCCCTCATGTACAGGAGTAAA	ATTGTATGAGAGGCGGAGATTGGA	60	191	235
127	76832	CACTGGTGTCTACCGGGAGGGGTA	ACCCAATGCCAACGGGCCATAT	AGGACTTCATTATGGGGACGAGGT	65	200	250
128	150949	TAGTGTAGCCGCATACGCACCCT	TTGAATGGGGCCGCAATCGGCAA	AGCTGACTGGGAGAGACGCAGTAT	64	185	238
130	104504	CGGAGCAGCTCGGTATGCTGGCA	GGCTGTAGCGAAACTCAGGGCTTA	AGTTTCTAGCCTCCACCATGCTCA	65	202	169
130	140674	CGCATGCGCACCCGGCCGCTACA	AGACCATGGAGCTATGTTCCGACT	CCGTTAGAATGATAAGAGCGCCAG	65	267	113
130	186599	GCCCGGGCGCCGACGGCTGCGCAG	GAAGTACAAGACTCGGGCTGTCT	CTTCTCAAGACTACGTCGACCC	65	353	220
131	134233	CAGCACAAAACATAGATTATGCT	GTAAGTGGAGGTCAGGACCAGTCTG	ACAACCTAGAAAGCCGCACGAGAG	64	250	155
131	179157	TTACACGGGATCCTGGCCCATGCA	CTGGCTGCTCCATGCATGATGATC	CACGCAGTAGAGCGTGTGTATG	65	229	153
131	184756	AGCAATTTTACGTTGGTTCCCA	CATGGTCTTTCTGGATGGTTTGG	CTAGTCAAAGACTGTGCCCAATGC	60	281	214
131	184947	GCGAAGTTAGTCTTCGTGCTTCGG	ACTCGACAGCTATACGAAGGCTTG	CTTGCCACACTTCATCATTTCAT	65	103	177
133	96331	GAAGTCGCACACACCTGCACCCAC	CAAGAGATGCCGTGAGGTACCAAA	ACGACATGGTGAATGTGGAGTGT	64	187	144
134	137090	ACGTAGAAAACAGGACAGGAGATA	ATTCTGCTCGGTATTTGTTCTTG	TCATGAACAGACTGAGCTCTGAAGC	58	303	160
134	136933	GAGATTGATTATCTCTGCTCTGT	AAGGAACAATACAGAGCAGAATA	GTGCACTTTTGTGTCTGACT	57	182	315
134	143194	GTCCAACCAAAACACTACATTAT	TGCACCTTAAAGTGGCATGCCCGA	GTTGAAAGGGAACAGGACAGATTT	57	126	166
134	143479	GGTTGCAGCGAATCAAGGCTAGAC	CGTTAATAGGGAGTTGTGAGTGT	AGCACCAACACTTCATCACCCTA	64	203	152
134	143413	GGGCATTGGTCTAGCCTTGATTCTG	GCCAAACTTGTCCCACTCACAAT	GGGCACAGGATACCATTTTACTCG	64	136	191
135	126658	TATGTACCAAGCCAGAGAGGATGT	AACACTGCCATAACAAAGCGTTGG	ACGTTGTTGCTTTTGGCTTTTGT	61	209	343
135	126643	TTGAGGGCACATCCTCTCTGGCTT	TGTGCGTACTCGATTGTGTTGTA	CGATGCGAACACTGCATAACAAAG	65	172	305
135	173614	TTCTTCAAACCTGAGGGGATCTCA	GCAACGCCACCAACACCTCGGGAC	TTCTGGTTACAGGATGGGACGTTT	64	109	202
135	230290	TAAGGCATAATACGCACACGCGTT	CTAGGTTTATCGGGCAGACATACAG	AGGTTTTAACCAACTTGCATGCGT	63	334	197
135	231910	TACGGCAAGGTCACATCCATTG	ACGGCATTTCCAGAAGTGGGGCA	GAGCTGACCAGAAGAAGCCGTC	63	100	138
136	183630	ATAAGCGTGTGGTATAAGGCTGG	TGCCTGAAGGAAAGACTTGCCACA	AGTTAGCAACGAAAGCCAAAGTCG	64	183	128
137	55966	CTTTCATTCTACTGCGCACAC	TCCACGCCCCGAATACACTTGGC	CTCTTTGGGAGCACACAGAGACAC	64	146	223
137	122508	ACAAGCAAAGCAGTCAGAGAACGA	TATTTCCGGTATCATGTTGGCGCCC	CAAGTTCCTCGGTGGCTCTATTCT	64	183	246
137	142217	TTAATTGTGTGAGGAGTGCACACA	TCGGTGTATTATGTGCTAGATGA	ATAGCAGTAATTCACGGGACCCT	63	205	151
139	214082	GGCTTTCAGTGTTCGTTTCATGTG	ATCATCACCCAAGGCGGGCCACCA	ATCCCTGCACGGCACCTATCTTAT	65	219	314
139	214061	CACACATGAACGAAACACTGAAAG	GCGGCCCGCTCAAAGCGGTCAGG	TTACGTTCAAGTGGACGCAATCAT	61	139	196
139	214400	CTCCATCTCAATGCACAACCAGTA	CTTGCGGAAGGGGAGAGCAAGAGC	ACTGTCACTGTCACTGTGCGATCA	65	262	167
139	214289	AATCAGACTGGTTGTGCAATGA	ACCCACAATGCTCTTGTCTCC	ACGTGGACATCCAACGAGGAAT	60	115	214
140	132658	CTTTGACGTGAGCACATTTCCGTC	CAAATATGTGGCAAAGTGGAGCGG	TCGTTCTTGGTCGGGAACATAA	64	147	219
141	10503	AACCGGCGAGCGCCCTTTGCCCA	ACGTCATTTATGGACAGTGGCCGG	GTCTGCTGATGGGATGGAGAGGT	66	318	194
141	178466	GCTAGCAGGATGCCGTGTGAGGTT	TGTAAGGAACTTGCTTGTCTGTAG	CCAATAACAGACTGGCGAGTAGGC	65	188	229
146	7564	TAGTAGGACAGCAGGTCAGGGGCA	GGCAGTAATGGGGCGGTACCGAGG	CACAAGACAATAATGCGCAACCTC	64	175	245

146	7489	GCCCTCCGGCCTCTGCCCTGAC	TAGTACCCGTAACACAACCTCGG	AGGAGGAGCAGTTCACCACTG	63	216	150
146	7939	GCGCTTTGCAAGGCACGCAATATC	GCATTGTGCGTTTCAAAGTGATT	GAAATGCAGTGGTGGGGGTATT	62	260	210
146	15539	CGTATCCGCCCCAGTCCCTCCTT	ACAGCATCCTCTATGCAGCCTAAC	ATCGCAGACGCACGATAGTAACCT	64	234	163
146	180535	ATGTCGATGTCGGTTGTTTGCATC	AATGCGCGACTTCGGGTGACGCGC	TGCCCGCAGTAGTATGTGTCTTGT	65	101	239
148	15468	TTGAGTCCAGCTTCACTAGCTAC	CACATGCTCATTCAAGCTCAATCT	CAGCATACACAGCATTGCGACATA	65	256	186
148	15386	TGAAGAACAGTGTAGTCTAGTGAAG	AATAAGATTGAGCCTGAATGAGCA	AACTCTTCCAAGACACACGAGAC	55	171	234
148	84884	GGGTCTAGAACGGGCTAAAAGACC	ATTCTGGGTTTGTGCGTTGTTTT	CATATGCCGATGCCCATACCTACT	65	292	195
148	198663	AACGATTGCCGCAAAGTGAATCT	GTCGCCAGTCTGCTTCGTGGC	AGACAGTCTGTGGAATGCATCCTG	64	174	239
149	113867	CCCTTGCATCTAAGTAAAGCCAGC	TTGCGCGCTTTTTCTTGTTAAA	TCAGTTTGTCTGACGGGTGGTA	64	109	156
149	148237	AGGCAACAACCTAACACCATTGAT	CGTGACAATCACAAAAGTAAACAA	CATGGTTGACAAGAGCATGATGAC	59	153	112
150	52688	TGTGAGAGTGGTCTCATGCAAATT	CTTTACATTGATGCCCTGATTTTT	TCAAGTACAGGTGTCGTCTAAC	58	312	124
150	52492	CAACGCATTGCTCTCAATTTGCAT	TGTAAGCAACCGTCCGCCACCC	ACAGGATCATGAAGAAGACCTCGC	65	134	290
150	66981	ATTCAGCAGCAACAGCAGCAGCAA	CAATAGTGCATCATTAGCATCAA	CATTTAATTACTGCCATGCAGCG	61	220	110
150	66972	CCCCTGAATGAATACTTGATGCTG	CAGCGCGCACCGGCCCTCATCT	AGCAGTGGCCATGATACAGTCAGT	64	111	164
150	96790	GGGTCTGCCGCGAAATGTGATA	GCTGCGAATATCCAGCGTGTITT	GCTTATTCCGTGCGTGTACACTT	65	190	104
150	97010	GGGAGAGTCCAGAGGCTGAGGCC	TCGACCCGAACGAGGTAGGATGTA	CAAAATCTGTCTAGGACCACGCCT	64	209	160
150	96997	GGACTCAGCTAACATCCTACCGCT	AGCCGCAGGGCTCTCGCCAGGGG	ATGATTCGTCTTGAGTCAACCGT	64	200	280
150	97184	ACCTGGCGGAGAGCACTGCGGCTG	TTGCTCAAATGGTTGCTGGAATCC	CAAGCCGTGATGAATTCCTTTGTC	65	221	138
150	119956	GGCAATTCACCACAACGGTGTCTA	CTGACGACGGCATGAAGGCCAGGC	GAAGAGCGTTGTCGTGCTCACTAA	64	113	221
151	115244	TCATTTTGACGTGTTTGCATGACC	TTGTGTTGAAGGCTCGCCGTGTT	TAAGCTTGTGTGACGAGGGCATT	65	135	253
154	113246	CAACCCCCAGACACATCTAAGTCA	CGACCCAGCCGACCGCCTTGTTGT	GTCTTGGCGCAATCCTAACACATT	64	169	235
156	113521	CGGCTTGCCTTGTGCCTCGTGCCT	GCTCAAATGTCCTTCCTTCGTAG	AAGACCACTTTAGGCGCAATCAC	64	238	148
156	113419	TTACTCTGGTAGGCACGAGGCAC	GGCTCAATGCCACGAAAGGAAGGA	GCATGGTCAGAGTGTATGATGCT	64	162	251
156	126902	CAAGCACAAATCTTTTCACTGCGC	GAAATTGGGTATTTGGTTGGCATG	ACAAACAGAAGTTCCTTGTGCGGT	65	299	182
156	126770	GCTCTATCGCGCAGTGAAAAGAT	AAATTAATTCATGCCAACCAAATA	TCAAGTACAGGATGCAAGCAACAA	64	188	306
156	127263	TTTGTGTTTGAATGTACAGTG	AAGCTGCTTGATACAAGGTATGGG	TCCTGCACATTCTCACCGAAATAA	64	312	205
157	148348	CTGTATTCAAGACGAAGTCCACAC	ATAACATATACCAGGGCGTCCACC	GAGAGTAAAGGCATTCCGCTATGT	57	186	144
158	33271	TCTGCTGTCTAATGACTAAAC	ACAGGCCAAAACCGCAGTCTCCA	ATGCTCCAATACTACGGTCACT	56	192	288
158	53192	GCCAATGCTTGTTCACAGTTACCC	ACAGCTCACCGCCACAATAACAC	GTTGTAAAGGGTGCAGACTGTG	63	178	149
158	53141	CGGGTAACTGTGAACAAGCATTGG	ACCCAGCTGTGTGTTATTGTGGGC	TCCAGCACTCGTTACAAGAATCA	65	180	218
158	109580	ACACCCGTTTTCCATCACTGCAT	ACCCCTAGCTCCCATCCGCCACA	CGCAGCTTTATGTTCTGTACGTG	65	192	236
161	15629	GCCACTCAAGACGCGCTTGAACC	GTTTTGCGGCGCTTGTTGTACA	GTAACGAAAGCCACCACCAC	66	263	152
162	36739	ACGAGGAGCGGGCCGGCGCCTACG	TTTCTGAAAGGACCCGTGAAATAT	CGTCAGCGATATTGTGCTAGTGT	63	302	149
162	100267	CACATGACCATGGCGTTCCCCACG	AACACACATGCCCGCATACTGAG	AACAACGAGCAGAGGTGTACGTGA	65	241	185
162	109397	CACCGGAGAGCCACAGCGGCGGCA	TCGTGATGCTAAGGTGGACCATGG	AATCAGCCTTACCCGACCACCTT	66	219	163
162	142395	GGCCATCCTGATGTACAGCCATAG	TAATGCTTTTTCGGACTTTAGGGC	CACCTGGTACAGCCAGGGACAG	65	131	253
162	166313	TATGCAGAGCTGAGGACGCGACCA	AGGTAGATCACAGCATCTCAGGCC	GTGAGGGGTAGACCCAGGGTAG	58	179	105
162	166210	CGTCTCAGCTCTGCATAAGTAGT	GCACGCGTGGCGGCTGAGATGCT	ACAGGCATCAAATAGACGTGCTG	61	139	230
162	166442	CATGCTTCTGGTCTACCCTGGG	CCGAGCTTAAGGCAACCCAGTCAA	CAAATAGTGTGAGCGATGAGGCAG	65	202	142
164	45965	AATGCACGAAACAGCAATAAGCAC	GCCAATCGAGCACCATAACACT	CTCGTATATGAGCGTGTGCATTCC	64	327	202
164	45813	TATTCGTGTTTTCGGTGCATTTACT	TTTCTACGGTGATAGTGTATGTG	GGGGAACCTTGTATCTCGTGC	61	131	273
164	45965	AGCGTGCATTTTTCTTTGGTGATG	ATGTCTGCCGAGACGAGCTGCGTT	ATGCAAGTGACGGGCGAGTAAAT	66	192	269
165	68882	AACGTGATGTACTIONACGAGGAGTG	CTTGCGAAACTGCAGCGTGGTAGG	ATCCCCCTACCTCCACTTATCAA	64	309	177
165	68739	GTCCTCCTCTGGCACTCCTCGTAA	CATGGCCTGGTGTCTACCACGC	AGCTTAAATGGGCGATGGAGTACA	64	173	307
166	101622	AGGTACTTTGTGTGCGTCAACTAC	TCATCTGCCCTTGCCTGCTCTAC	CTACGACTTGTAGGCCCGTTGATA	59	164	277
166	102732	AGGCCGACGACTTTATCTGAATG	AGTTGGTGGTGTGCGGGTGGCGTAT	ATGTATGCAATGTTACAAGCGGGA	64	107	140
166	111730	CGTCTGCTCCGGGGCCCGCAGCT	TCACACACAATATACGCGACAA	CCTTGGAACTCGTTCAATTTCTC	64	288	221
166	111655	AGCATGAGTATTTTAGCTGGGG	GTAAGCGAGTGTGCTGATATGT	ACTGTGGACCGCTACGTAGACACC	63	160	221
166	121833	TACAAAAGGAAGCGAGCATTACGC	CGTCTTACGCGTATGACTCATTGC	CCCACACTCTCAACATTGTATGCC	64	243	150
166	121722	AGGTGCGGTAATGCTCGCTTCTT	TCCTGCAATGAGTCATACGCTGAA	CAGCAGCTAGGTCTGCAATGTGAT	64	161	253
169	124413	TGCAGCCGCTCCTCAATTAGCCTC	TGACCAGGTATACTCACGCACCC	ATCGGAGCTTGAAGAAAGTTCACG	65	182	120

169	124723	GGATTGCGTGGGGCCCATCCGCCG	GACAGCAGTCATACGCTTCCATGT	GGGTTTCTAGGGACTACGTCTGGG	65	248	177
171	35119	ATGATTACTAAACGCGAGTACGCT	CGTAATCGGTGTGACCATGTTGTC	TGTAGCTTCCATGCTCAGAGGG	60	122	156
173	56701	GCCAGTGACCACTTCTCCATGGTG	GTGATGCATTTTCGGTTTCACACG	GCTTAAGAAGCCCTACTCGAAGGC	64	217	101
173	112302	TCGTGGCTGTGGCCGTCTGTGGTC	GGCGAGCAAGCCCAAGGGAAAAGC	CTTGTCAGAGTGGGGCTGAGGG	66	265	185
173	112213	ACACCTCTCCTGGGACCACAGAC	GCTTTCCCTTGGGCTTGTCTGCC	GTGGTGGTGTGGTGAAGATTCTG	65	136	202
174	10541	CACGTTTGTGACGGCGTTGACTAT	GCGCTGGGCTAGTAAAATGACATG	TATCCGTTTCAGGCTTGGGAGATA	64	233	108
174	10408	CCATATGTGCAAAACATAGTCAAC	AATCCATTGCGCCCATGTCATTT	CTGGCTTCATTTCTGGGATTATTG	58	101	225
174	58929	TAAGCATACGAAACATGTAACACT	CATGATATGCAACATATATCATTG	GTATCCATCCCAACCTACCCACAA	60	276	168
174	58908	GTGGATGATAAATGTTGCATGTCT	ATCAGCCATGGCACAGCAGCCGAC	AACTACAGAGATCGTTTGAGGCGG	60	102	183
174	113249	CGCGAGGATGCGCGTGCGACTTGC	GGTGGCGTACGGTATGTGCTGGCG	CCCTCCATGTTCCCTAAACCTAGC	64	259	194
176	91513	GCTGTTAGCGTGATTTTTGAACAG	GGATAGACCCATTGATTTGAGGGC	AGGTAGACAGGGGCAATCCAAAAC	62	120	164
176	91557	GGATAGACTAATTGATTTAAGGGG	TACGGAAGCTAGCTTTTAAGCTTC	AGACAACCTCAATCATTCCAATCGT	56	112	176
180	35840	TAGGTTAGGTCGGGACTCAGGAGG	GCGTGATGTTTTTGGCATAGCTT	CGCTGTAATAATGCGTCTCCACAG	65	255	125
185	133670	AGCATTTATGTGTGCAAATCTC	GGTTGCACATTCGTGGATGAGTGG	GTTTACTCCTCCAGACCGGAATC	57	160	275
186	99873	CGGTTGACACAGCGGTGAGGAGGA	CTGTGACAGACTTGGATGCGGATT	GCTTATCCCTACAGACTTGTCCG	65	254	106
187	2846	TGGTACCGCTTTTATGTGGTGGGA	GGACGCGGCGGGTTTGCCTGCTG	TAATGTGCGTGCAGTTACAGCTA	65	157	292
187	3110	CTCACCACAGAGGCACGCAAACCA	TGACACGTCCGAGTTTGTAAA	GGGTTCACTAGCAAGGGCTTTTTT	65	241	126
187	105784	TACGGGCGTGGTGCAGCGGGGGG	GACATAGGATGCGTAAGCGTGTTA	CCTGCCATAGCAGTGAACGATACA	65	224	178
187	105776	GCACAAAACATTCCAAAACACGCC	CCTCGCTTGCATCGAATACTGTCG	GGTAAGGTGTTGTGTCTTACGGGC	64	102	136
187	105810	CCTCGCTTGCATTGAATACTGTCA	AAGCCCCTCAGCCCTCAACCATCT	GGTAAGGTGTTGTGTCTTACGGGC	64	136	165
188	54016	CGCGCCCTGCTGGTCAGTGGTCAC	TCTCATGCAGTCAAGCATCGCTCC	TGTCGCTCAGCTTAAACCACAAC	64	340	184
189	69751	TGCGCCCATCTCTCAGCTCCAT	CCTCAACTGAACTGGCCTAAACCG	TCGTCTTTCTTTCTGTCTCTG	65	325	202
189	69616	AGGAGAAATTGATGGGAGTGGAGA	TGAGCTGGTTTCGGTTTAGGCCAG	CTGACGAATAATGTGCTGACCACC	64	183	306
200	16511	CGCATGCGTTACATAATGGACTTT	CCATCATAACCATCCAGGGGATTA	TAACGATGCTGGGCTAGAGGAGTC	64	181	242
203	42469	GATGAGCGCGTCTTTGCCAGCGCA	TCACAGGATTTGTAGCAGTTGCAC	AGGAACTCAAACAGGTCACCTCAC	58	266	124
203	42447	ACCACAAGTGTACAAATCCTGTT	AAACAAGGAACACACACGCCCCGT	AGAGGTGTGTACATGAGATGAGCG	58	183	239
226	72675	GGACCTGGGAGCGGCTTGAAGAG	AGACATTCGTGGTGTGTTGCAGT	GTTGCAACAGTATAAGCCCTTGCG	65	209	155
226	72606	CGAATGTACTCTTCCAAGCCGCTC	GCCTGCAACTGCAACAAACCGACG	GTTGAGGAGGTGTAGCGATGGATT	64	118	171
237	25162	GAGTTCCTCAACTAGACCATAGCGG	GTTCCAACCCCGAGGAGCAATGCC	CTCCACCGTGACCACTGCCTTC	64	156	250
240	43815	GGCGACAGCAGCAATGCCAACAC	TGATAAATAGTACACAACACACA	TACTACTGTACTCCCGCTTTCCG	59	325	196
240	44216	TGTCAAACCCAGGAGAGTTGCGG	CATGCAGCGTAGACATTGATACCC	TACCTAACCTCCACCTCCACTCA	65	353	204
241	47397	TTGACAAATGTACGCGTATCGTG	GTAGATGCTGCCCTGTGCCGAGC	CTGCAGACTAGTCTGTGCTTCGC	64	138	107
265	39702	CTGAAAGTATGCTTAATTCAAGAA	AGGCTCTATATTCTGCTGGTGCTT	TAAGTCTGCCCTCTACCGCTCAC	65	175	100
270	69977	CGCTATTTAGCGCAACCGGCTTAG	TCTACCCCTGTGCGCGCCAAACT	GTGGCTTACCTGAAGAACCCAG	65	134	235
270	70164	GGCGGTCCAAGTGTGTGGCGCCGG	TACCTGTGAGGTACCTGTGATCAC	ACGTTGAAGGAACTGGAACGAGTC	61	178	104
270	70138	GTGCGAGGTAGCTGACAGGTAAC	CGACCGGAAACCCACTGCTAAC	GCGCTAAATAGCGAATGGTGGATA	63	174	229
271	32784	TTGAGCCTTGTGAGCTCGCTGTC	CGGGACGGACTGCGCAGCAGTCAA	GAAGACGGGAAGAGTGGGACATT	65	152	194
271	32983	CACCCCTGCATCGTCTGACTGCC	TGCCGGTGATTTGTCTACCCCTAA	CGGGAGGGTGCTGTGTAGTTTTAC	65	295	146
271	32966	TGAAGCAGGGCGGCTGCGGAGC	ATGGGTTAGGGGTAGACAAATCCC	GTCCTACTCTTCCACAGCTC	62	290	140
297	35856	TGAGGGCGAGGCGTCTTTTATTG	AGCAGTAGAGCGCAACACGCGT	GAATGGAGAACGTCGGGAGTCTTA	64	147	219
301	11825	TGCAGCGCCGGCGCCGTTTACAGC	AGGCACATATCACGGGCGCACATG	AAATGTAAGGTCGTGCGGCACAT	64	227	145
328	15975	CTGAGGGCTGATGCGCAGCCATTG	AAGTGCRCGTACAAGCAACCATGA	TGAATAGGCCAGATCTATCACGGG	65	183	143
333	16754	CCGAGCTGTTTACTTGACGAGC	CGAAGTGCTAGAGGGCATGGAGAA	ACGTCTCGAGATTTCTTGTCTT	64	179	276
339	18048	GGTTATATGTGCAAGCCACCTCAA	CCCCACACAGGCTCGTGGGCGCTA	AAGATTGCAGCATGGAACACAGAG	63	161	285
354	5564	GATGTCCTTAAATTGAAGCCTGG	ATTCTCAAGAGCTCGATTGTCCA	TTCACATACAAGACAAGGGCGCTA	64	250	136
354	5710	ATTCCTCAAGAAGTCTGACTGTCCC	GTAATTGTTGGGCCCTAAGCTTGC	CCACTGACCTGCGCAACTATAAAT	58	286	140
354	5753	GTAATTGTTGTCCTAAGTTTGT	CTGTTGGCGTTTCTACAGGAAG	ATGCAACTCAAAAACGCGAGTAA	62	244	201
354	5697	ATACATTACAACAACTTAGGGCA	TGAGCAAGCTTCGTTGAGTAAACG	GGTGATATAGCATGCCGATAACTG	56	152	193
354	5802	CTGTTGGGTGTTTACTCAACGAAA	CTCGTCACTCTCAGCGAGCTGAT	ATGCAACACTCAAAAACGCGAGTAA	65	201	152
354	5738	TGAGCAAGTTTCTGTTGAGTAAACA	CTGACTTGCGCAACTATACATATC	TAGCGCCCTTGTCTGTATGTGAA	61	109	171
358	3048	TGCCTGAAGGACTCCGCCAAGAAC	CATGGCTTCGACAAAACCTCAAGA	CTCACCAGACCATCTCAAAAACCC	65	202	166

393	13998	CGCATGCGCTCTAGGCCGCTACA	AGACCATGGAGCTATGTTCCGACT	GTCCTCAAGCTGGCTTAAACTCCC	65	314	158
512	7827	TTGGTGCTTGCCCGGGATCTCCTT	AATCCACTTATCCACCCCGCAAG	AGTGCGCCTACTGGAATGTTAGG	64	253	196
512	7973	TGGTGCTACATGGCGAGTGGCCGA	CGCCTACTGGAAAGGTTAGGAGTG	CTTGCCCTCCTTCCCTCTTTG	60	174	102
512	8076	AGTAAGGATGGACTCCTTGGGACC	GATGCTGCCGACATGGGTCGCGAA	TCCTAACATTTCCAGTAGGCGCAC	64	125	166
601	1476	ATTATAAGCCGAGTAACCCTAAAG	GCATTGTACGAGCATCATTCTGGA	GTTGGACGAATATGGTAAGCGTAG	56	154	189
601	8305	ATTATAAGCCGAGTAACCCTAAAG	GCATTGTACGAGCATCATTCTGGA	GTTGGACGAATATGGTAAGCGTAG	56	154	189
684	4260	AGACGCCATGTGTGATACGGTAGG	GGGCAACTATTGCGTTCAATAAT	GCCGGCACTCTGAGACTGTTAGTT	65	150	233
743	534	GGCCAATTGTGAGGATCAGCATT	TGCATGTTTAAAGCTGTGTGCAGCG	AGTTCGCCGACGCAATAAAACATA	65	151	300
743	852	AGGTGGCAATGCGTGAGCATTTTA	ATGCGACGGCTGCGGGATCAATGG	CTGAAGCTGCACACAGCTAAAACA	63	197	310
1028	568	ATGGGATGTGAGCAGAAGAGAGAG	TAACCAGGCGTCGAAGTCAGAATT	GATGCTGGAGGTATATCCCGCTG	63	157	239
1043	3751	GTGCGCCATGCGTACATCCATTGC	CACTGCTGTCGCATTCAACCATT	AGCGTTTGTACCACAAAGGACACA	64	229	152
1043	3663	GTTGTGGGCTAGGCAATGGATGTA	AATGCGACAGCAGTGTAGTGGGTT	ACGATGGTAGGGTGGATCAGAGAG	64	118	174
1043	4065	ATTAGCCGCATTCAAGATACGACG	TAGCCCGCACCACAAGCCGCATGG	CACAGCAAAGCAAAGCTGCAAG	65	182	316