

All Orthologous Maize-Rice Promoters		VISTA Maize-Rice CNS		All Promoters-VISTA CNS overlap
Element	Occurrences/Mbp	Element	Occur/Mb	Occur/Mb
AAAAAAA	1136	AAAAAAA	2249	1136
AAAAAAC	289	TTTTTTT	1776	743
AAAAAAG	267	TATATAT	473	675
AAAAAAT	473	ATATATA	592	620
AAAAACA	220	CTCTCTC	118	570
AAAAACC	141	TCTCTCT	237	527
AAAAACG	105	AAAAAAT	355	473
AAAAACT	180	AAATAAA	355	462
AAAAAGA	231	ATTTTTT	710	462
AAAAAGC	159	AAAAATA	237	411
AAAAAGG	159	ATATTTT	355	408
AAAAAGT	137	TTTTTTA	473	408
AAAAATA	411	AAAATAA	473	393
AAAAATC	216	ATAAATA	473	390
AAAAATG	202	AATAAAA	592	386
AAAAATT	238	TAAAAAA	947	386
AAAACAA	253	TATTTTT	710	382
AAAACAC	101	AAAATAT	473	379
AAAACAG	108	TATATTT	710	372
AAAACAT	188	TTTGTTT	355	372
AAAACCA	170	ATAAAAT	355	368
AAAACCC	97	TTTTATT	473	368
AAAACCG	69	AAATATA	592	361
AAAACCT	126	TTTATTT	237	361
AAAACGA	72	AAACAAA	355	357
AAAACGC	54	AGAAAAA	829	357
AAAACGG	87	TATTTAT	355	354
AAAACGT	18	AAGAAGA	237	346
AAAAC TA	162	TTTTTAT	355	346
AAAAC TC	94	GAAAAAA	355	343
AAAAC TG	112	ATAAAAA	355	339
AAAAC TT	155	AAGAAAA	237	325
AAAAGAA	249	AATAAAT	118	321
AAAAGAC	76	TAAAATA	237	321
AAAAGAG	123	TTATTTT	592	317
AAAAGAT	123	ATATAAT	237	314
AAAAGCA	144	TTTCTTT	355	314
AAAAGCC	90	TATAAAT	237	310
AAAAGCG	51	TTTAAAT	118	310
AAAAGCT	148	TTTTTAA	355	310
AAAAGGA	144	TTTTTTG	118	310
AAAAGGC	83	ATATATT	237	307
AAAAGGG	76	TAAATAT	237	307
AAAAGGT	101	TATAAAA	473	307
AAAAGTA	119	AAATATT	118	303
AAAAGTC	79	CAAAAAA	237	299
AAAAGTG	97	TATATAA	710	299
AAAAGTT	126	TTTTCTT	829	296
AAAATAA	393	CCTCCTC	1065	292
AAAATAC	115	TAATTTT	118	292

AAAATAG	148	AAAAAAC	473	289
AAAATAT	379	AGAGAGA	355	289
AAAATCA	166	ATTTAAA	237	289
AAAATCC	130	TAAAATT	355	289
AAAATCG	61	TTCTTTT	355	289
AAAATCT	184	TTGTTTT	237	289
AAAATGA	202	ATTTATA	118	285
AAAATGC	112	ATTTATA	118	285
AAAATGG	137	CTCCTCC	829	285
AAAATGT	180	TCTTCTT	237	285
AAAATTA	242	TGTTTTT	237	281
AAAATTC	188	TTAATTT	118	281
AAAATTG	126	TTTAATT	118	281
AAAATTT	253	CTTTTTT	118	278
AAACAAA	357	TTTTGTT	118	278
AAACAAC	130	AATATAT	118	274
AAACAAG	148	ATATAAA	237	274
AAACAAT	159	ATATTTA	592	274
AAACACA	137	ATGCATG	473	274
AAACACC	87	GAGAGAG	473	274
AAACACG	83	TTAAAAA	118	274
AAACACT	105	AATATTT	237	271
AAACAGA	72	GAAGAAG	118	271
AAACAGA	72	TTATATA	355	271
AAACAGC	54	TTATTTA	118	271
AAACAGG	105	TTTAAAA	355	271
AAACATA	152	AAAAAAG	355	267
AAACATC	97	TAAATAA	473	267
AAACATG	152	TAAAAAT	118	263
AAACATT	148	TATTATT	237	263
AAACCAA	184	TTCTTCT	118	263
AAACCAC	83	TTTTTCT	355	263
AAACCAG	97	CTTCTTC	118	260
AAACCAT	90	CTCCTCT	118	256
AAACCCA	90	TTATATT	237	256
AAACCCC	40	AAAACAA	237	253
AAACCCG	54	AAAATTT	237	253
AAACCCCT	94	ATTATAT	118	253
AAACCGA	47	TAAATTA	237	253
AAACCGC	22	TATTTTA	237	253
AAACCGG	90	TTTATAT	118	253
AAACCGT	40	TTTTAAA	355	253
AAACCTA	105	AAATTTA	237	249
AAACCTC	87	ATAATAA	118	249
AAACCTG	58	CATATAT	118	249
AAACCTT	97	TATAATA	237	249
AAACGAA	58	TTTTAAT	237	249
AAACGAC	47	TTTTTTC	355	249
AAACGAG	76	AAATTAT	118	245
AAACGAT	54	AATATAA	355	245
AAACGCA	61	ATTATTT	473	245
AAACGCC	43	ATTTTAT	118	245

AAACGCG	25	CTATATA	592	245
AAACGCT	29	TAATAAT	118	245
AAACGGA	36	AAATTTT	237	242
AAACGGC	40	AGAAGAA	237	242
AAACGGG	69	ATAAATT	118	242
AAACGGT	47	ATTTTTA	237	242
AAACGTA	14	CTATAAA	473	242
AAACGTC	14	AAAAATT	118	238
AAACGTG	29	AATAATA	237	238
AAACGTT	25	AATTATT	237	238
AAACTAA	180	TATAATT	118	238
AAACTAC	58	TTTTATA	355	238
AAACTAG	155	AAATAAT	118	234
AAACTAT	87	AACAAAA	355	234
AAACTCA	108	CATGCAT	473	234
AAACTCC	40	CGCGCGC	118	234
AAACTCG	29	TCTCCTC	118	234
AAACTCT	141	CATTTTT	118	231
AAACTGA	94	TTAAATA	237	231
AAACTGC	51	GTTTTTT	118	227
AAACTGG	65	ATAATAT	473	224
AAACTGT	115	TTTATTA	237	224
AAACTTA	105	TTTCTCT	118	224
AAACTTC	65	AAAAACA	237	220
AAACTTG	119	AAATTAA	118	220
AAACTTT	206	AATTAAA	237	220
AAAGAAA	299	ATTTAAT	118	220
AAAGAAC	90	ATTTTAA	473	220
AAAGAAG	144	CTCTCCT	118	220
AAAGAAT	130	TAAATTT	118	220
AAAGACA	83	TGATTTT	118	220
AAAGACC	47	TTAAAAT	355	220
AAAGACG	61	AAAAATC	592	216
AAAGACT	54	AAAGCAA	118	216
AAAGAGA	133	ATTTGAT	118	216
AAAGAGC	83	ATTTTCT	237	216
AAAGAGG	133	CAAACAA	118	216
AAAGAGT	29	TATTTAA	355	216
AAAGATA	108	TGCATGC	237	216
AAAGATC	58	AAATGTT	118	213
AAAGATG	105	AATTTTA	473	213
AAAGATT	101	ATAATTT	118	209
AAAGCAA	216	CTAGCTA	118	209
AAAGCAC	101	GATTTTT	237	209
AAAGCAG	58	GCATGCA	355	209
AAAGCAT	115	TTGATTT	118	209
AAAGCCA	105	AAACTTT	237	206
AAAGCCC	65	AACCAAA	473	206
AAAGCCG	47	TAATTTA	118	206
AAAGCCT	36	TCTTTCT	118	206
AAAGCGA	76	TTGTTTG	355	206
AAAGCGA	76	TTTATAA	355	206

AAAGCGG	61	TTTGAAA	118	206
AAAGCGT	51	AAAAATG	118	202
AAAGCTA	144	ACCAAAA	237	202
AAAGCTC	76	CAAATTT	237	202
AAAGCTG	43	CCTCTCC	118	202
AAAGCTT	87	TAGAAAA	118	202
AAAGGAA	97	TATATTA	237	202
AAAGGAC	32	TCCTCCT	947	202
AAAGGAG	123	TGATGAT	118	202
AAAGGAT	76	TTTAATA	237	202
AAAGGCA	61	AACAAAT	355	198
AAAGGCC	61	AATTTAT	237	198
AAAGGCG	22	ATTAAAA	118	198
AAAGGCT	83	CCCTCTC	118	198
AAAGGGA	115	GCTAGCT	237	198
AAAGGGC	43	TTATTTG	237	198
AAAGGGG	90	AGCTAGC	355	195
AAAGGGT	69	GAGAAAA	355	195
AAAGGTA	101	GCGCGCG	237	195
AAAGGTC	51	TTCTAAA	118	195
AAAGGTG	61	TTGAAAA	118	195
AAAGGTT	90	TTTTTGA	118	195
AAAGTAA	83	AAATATG	118	191
AAAGTAC	58	ATTATAA	237	191
AAAGTAG	76	CAAATAA	118	191
AAAGTAT	112	TCTCTTC	473	191
AAAGTCA	69	TTATAAA	237	191
AAAGTCC	36	TTTGTTG	118	191
AAAGTCG	43	TTTTAGT	118	191
AAAGTCT	72	AAATTCA	237	188
AAAGTGA	58	AACAAAC	118	188
AAAGTGC	65	ACATTTT	118	188
AAAGTGG	69	AGTTTTT	118	188
AAAGTGT	72	CATAAAT	118	188
AAAGTTA	90	CTTTCTT	118	188
AAAGTTC	47	TATATAC	237	188
AAAGTTG	130	TATATGT	118	188
AAAGTTT	133	TTTGCT	118	188
AAATAAA	462	TTTTGTG	118	188
AAATAAC	141	AAAATCT	118	184
AAATAAG	126	ATATTAT	237	184
AAATAAT	234	ATTTTTT	118	184
AAATACA	137	GTTTGTT	355	184
AAATACC	97	TAATAAA	118	184
AAATACG	47	TAATAAA	118	184
AAATACT	112	TGCATTT	118	184
AAATAGA	170	TTTCAA	118	184
AAATAGC	65	AAAAACT	237	180
AAATAGG	94	AAAATGT	355	180
AAATAGT	112	AAACTAA	473	180
AAATATA	361	AAATTTG	118	180
AAATATC	115	ATATTAA	118	180

AAATATG	191	ATCATAT	118	180
AAATATT	303	ATGTTTT	118	180
AAATCAA	115	ATTTTTG	118	180
AAATCAA	115	CTATTTT	118	180
AAATCAC	76	TCTCTCC	118	180
AAATCAT	177	TCTTTTG	118	180
AAATCCA	123	TTTGCTT	592	180
AAATCCC	69	AAATCAT	118	177
AAATCCG	47	AACAACA	237	177
AAATCCT	112	AACTTTT	237	177
AAATCGA	51	AGAAAAG	237	177
AAATCGC	36	ATATGTT	355	177
AAATCGG	72	ATCTCAT	118	177
AAATCGT	32	CATATTT	237	177
AAATCTA	155	ATCTTTT	118	173
AAATCTC	123	ATGAAAA	237	173
AAATCTG	58	CTCTTCT	237	173
AAATCTT	162	CTTATTT	237	173
AAATGAA	173	GAAAAAT	473	173
AAATGAC	112	TAAATGT	118	173
AAATGAG	83	TAATATA	118	173
AAATGAT	123	TTATCTT	118	173
AAATGCA	119	TTGGTTT	118	173
AAATGCC	54	TTTCTTC	355	173
AAATGCG	47	TTTGTA	118	173
AAATGCT	101	AAATAGA	118	170
AAATGGA	162	AATCTTT	118	170
AAATGGC	47	AATTTCT	118	170
AAATGGG	43	ACAACAA	118	170
AAATGGT	123	ACCAAAT	118	170
AAATGTA	155	ATAGAAA	237	170
AAATGTC	69	ATATATC	118	170
AAATGTG	97	ATATTTG	118	170
AAATGTT	213	CAAATAT	118	170
AAATTAA	220	CGTCGTC	118	170
AAATTAC	119	CTTTTCT	237	170
AAATTAG	101	GAAGAAA	237	170
AAATTAT	245	GAAGAAA	237	170
AAATTCA	188	TAGAAAT	118	170
AAATTCC	94	TATTTCA	118	170
AAATTCCG	65	TCTTCCT	355	170
AAATTCT	144	TGTTTTG	118	170
AAATTGA	101	TTAATAA	118	170
AAATTGC	94	TTCATTT	118	170
AAATTGG	72	TTTGATG	118	170
AAATTGT	137	TTTGCA	355	170
AAATTTA	249	AAAATCA	237	166
AAATTTTC	133	AACACAA	118	166
AAATTTG	180	AATATTA	118	166
AAATTTT	242	ACCACCA	118	166
AACAAAA	234	ATATACA	237	166
AACAAAC	188	CCAAACA	118	166

AACAAAG	94	CCTTTTT	118	166
AACAAAT	198	CTAAAAA	118	166
AACAACA	177	GTAAAAA	237	166
AACAACC	94	TAAACAA	118	166
AACAACG	51	TAGCTAG	237	166
AACAACT	123	TATATCT	118	166
AACAAGA	101	TATTTGT	237	166
AACAAGC	79	TGTTGAT	118	166
AACAAGG	94	TTGCTTT	355	166
AACAAGT	108	AAAAC TA	355	162
AACAATA	119	AAATCTT	118	162
AACAATC	90	AAATGGA	237	162
AACAATG	87	AACTAAA	118	162
AACAATT	105	ACACACA	355	162
AACACAA	166	ACACACA	355	162
AACACAC	97	AGCTAAA	118	162
AACACAG	36	CAATAAA	118	162
AACACAT	130	CCACCTC	237	162
AACACCA	97	CTATTTA	355	162
AACACCC	22	GAGAGGG	237	162
AACACCG	25	GAGGAAG	118	162
AACACCT	61	GTTTTGT	237	162
AACACGA	40	TCTTGTT	355	162
AACACGC	32	TGAAAAA	118	162
AACACGG	54	TGTTTGG	237	162
AACACGT	58	AAAAAGG	118	159
AACACTA	94	ATATAAG	355	159
AACACTC	51	ATATAGA	237	159
AACACTG	47	CTTCTCT	118	159
AACACTT	69	CTTGTTT	237	159
AACAGAA	97	TGAAGAA	118	159
AACAGAC	51	TGAAGAA	118	159
AACAGAG	69	TGTAAAA	237	159
AACAGAT	61	TGTATAT	355	159
AACAGCA	101	TGTGTTT	118	159
AACAGCC	25	TGTTTGT	355	159
AACAGCG	25	TTCTCTT	355	159
AACAGCT	58	TTCTTAT	118	159
AACAGGA	65	TTTGAT	118	159
AACAGGC	51	AAACTAG	118	155
AACAGGG	51	AAATCTA	355	155
AACAGGT	69	AAATGTA	237	155
AACAGTA	65	AATTCAA	237	155
AACAGTC	58	AATTCAA	237	155
AACAGTG	61	AATTTTC	355	155
AACAGTT	32	ACAAAAT	355	155
AACATAA	141	ATTCAAA	118	155
AACATAC	51	CTCCCTC	237	155
AACATAG	83	GAAAATA	118	155
AACATAT	123	GCTTGTT	118	155
AACATCA	83	GTATATA	355	155
AACATCC	61	TCAAATA	118	155

AACATCG	36	TCTTATT	237	155
AACATCT	94	TGTTGCT	118	155
AACATGA	94	TTCTCTC	237	155
AACATGC	79	TTTCATT	118	155
AACATGG	87	TTTCCAA	237	155
AACATGT	123	TTTTATG	237	155
AACATTA	83	ACAAATA	237	152
AACATTC	54	AGAAACA	118	152
AACATTG	69	ATGCTTT	118	152
AACATTT	144	ATGTTGT	118	152
AACCAAA	206	CTTCCTC	237	152
AACCAAC	90	CTTTTAT	473	152
AACCAAG	61	GCAGCAG	118	152
AACCAAT	90	GGAAAAA	118	152
AACCACA	83	TAATATT	237	152
AACCACC	79	TAATTTG	118	152
AACCACG	51	TCCTCCC	118	152
AACCACT	69	TCTCCCT	118	152
AACCAGA	108	TGATATT	118	152
AACCAGC	65	TTCAAAA	237	152
AACCAGG	32	TTTAGTT	118	152
AACCAGT	51	TTTGATT	118	152
AACCATA	61	TTTGAT	237	152
AACCATC	83	AAACATT	118	148
AACCATG	115	AAGAGAG	237	148
AACCATT	58	ATATGTA	118	148
AACCCAA	112	ATGATTT	118	148
AACCCAC	83	CAAATA	118	148
AACCCAG	29	CACACAC	355	148
AACCCAT	65	CACCAA	237	148
AACCCCA	47	CAGCAGC	118	148
AACCCCC	43	CCAAAAT	118	148
AACCCCG	25	CCCTCCT	355	148
AACCCCT	36	CTCCACC	118	148
AACCCGA	43	GAAAAAG	118	148
AACCCGC	22	GAAAGAA	118	148
AACCCGG	40	GAAAGAA	118	148
AACCCGT	54	GATATAT	118	148
AACCCTA	112	GCCAGCC	237	148
AACCCTC	43	GCTATAT	118	148
AACCCTG	58	GTTTTTG	118	148
AACCCTT	79	TACCAA	118	148
AACCGAA	79	TATACAA	237	148
AACCGAC	43	TTCATC	118	148
AACCGAG	51	TGATTTG	118	148
AACCGAT	43	TTATGTT	118	148
AACCGCA	29	TTCTTCC	237	148
AACCGCC	22	TTGTTTC	118	148
AACCGCG	18	TTTATGT	118	148
AACCGCT	32	AAAAGGA	237	144
AACCGGA	51	AAAGAAG	118	144
AACCGGC	90	AAAGCTA	118	144

AACCGGG	69	AATATGT	237	144
AACCGGT	51	ACATAAA	237	144
AACCGTA	18	ACTATTT	118	144
AACCGTC	36	AGCCAGC	473	144
AACCGTG	51	AGGAAAA	118	144
AACCGTT	25	ATGATAT	118	144
AACCTAA	69	ATTTATG	118	144
AACCTAC	54	ATTTCAA	118	144
AACCTAG	54	CAATCCA	237	144
AACCTAT	101	CCCCCCC	118	144
AACCTCA	47	CCCCTCC	592	144
AACCTCC	54	CCTCCCC	237	144
AACCTCG	32	CGCCGCC	355	144
AACCTCT	58	CTGCTGC	118	144
AACCTGA	47	CTTTTCA	118	144
AACCTGC	43	GCCACCA	118	144
AACCTGG	29	GTGGTGG	237	144
AACCTGT	22	TAACAAA	118	144
AACCTTA	40	TATGTTG	237	144
AACCTTA	40	TATGTTT	355	144
AACCTTC	97	TCTAAAT	118	144
AACCTTG	47	TCTTTTC	237	144
AACGAAA	79	TGCATGG	118	144
AACGAAC	43	TGGTTTG	118	144
AACGAAG	36	TTCTTGT	355	144
AACGAAT	22	TTTATCA	118	144
AACGACA	87	TTTATTG	237	144
AACGACC	36	TTTGCTC	118	144
AACGACG	36	AAATAAC	592	141
AACGACT	54	AATAACA	473	141
AACGAGA	40	AATATAG	118	141
AACGAGC	79	AGAAAAC	118	141
AACGAGG	51	ATTTTCA	118	141
AACGAGT	36	CTAGTTT	118	141
AACGATA	72	CTCTCCC	118	141
AACGATC	40	GACGACG	118	141
AACGATG	32	TACATTT	237	141
AACGATT	18	TATAAGA	237	141
AACGCAA	47	TATGAAA	118	141
AACGCAC	61	TCAAACA	118	141
AACGCAG	11	TGTTCTT	118	141
AACGCAT	32	TTCTAGA	118	141
AACGCCA	18	AAAAAGT	118	137
AACGCCC	43	AAAATGG	355	137
AACGCCG	18	AAACACA	118	137
AACGCCT	14	AAATACA	118	137
AACGCGA	14	AAGAGAA	118	137
AACGCGC	47	AAGCTAA	237	137
AACGCGG	14	AATAAAG	118	137
AACGCGT	18	AATAATG	118	137
AACGCTA	32	AATGTTT	118	137
AACGCTC	29	ACCAAAC	592	137

AACGCTG	22	AGAAATT	118	137
AACGCTT	40	ATAAAAG	118	137
AACGGAA	32	ATAAACA	118	137
AACGGAC	29	ATAATCT	118	137
AACGGAG	83	ATGAAGA	118	137
AACGGAT	29	CAAATCA	237	137
AACGGCA	40	CATCTCT	237	137
AACGGCC	43	GAAAATG	118	137
AACGGCG	43	GCACACA	118	137
AACGGCT	83	GCCGCCG	237	137
AACGGGA	36	GCTCCTC	237	137
AACGGGC	79	GGGAGAG	118	137
AACGGGG	32	GGTGGTG	118	137
AACGGGT	40	GTTTCTT	118	137
AACGGTA	14	TCCCCTC	237	137
AACGGTA	14	TGCTTTT	237	137
AACGGTG	22	TGTGTGT	118	137
AACGGTT	25	TGTTTCT	118	137
AACGTAA	11	TTAAACT	118	137
AACGTAC	36	TTGTTGC	237	137
AACGTAG	18	TTTCTTG	355	137
AACGTAT	25	AAAGAGA	237	133
AACGTCA	22	AAAGAGG	118	133
AACGTCC	14	AAAGTTT	118	133
AACGTCCG	14	AATATGA	118	133
AACGTCT	22	AATCCAT	118	133
AACGTGA	32	ACATATT	118	133
AACGTGC	36	AGAGAGG	118	133
AACGTGG	40	ATAAAAC	237	133
AACGTGT	43	ATAAAGC	355	133
AACGTTA	18	ATACAAA	118	133
AACGTTC	14	ATACATA	118	133
AACGTTG	25	ATATTTT	118	133
AACGTTT	40	ATCTCTT	237	133
AACTAAA	162	ATTTCTC	118	133
AACTAAC	79	CAAAACA	118	133
AACTAAG	54	CAACAAA	118	133
AACTAAT	115	CAACAAA	118	133
AACTACA	51	CATGCAA	118	133
AACTACC	47	CATGCAA	118	133
AACTACG	18	CATTTTC	118	133
AACTACT	97	CCACCAA	237	133
AACTAGA	69	CCAGCCA	118	133
AACTAGC	65	CCCCCTT	118	133
AACTAGG	65	CTAATTT	118	133
AACTAGT	115	CTCATCT	118	133
AACTATA	101	CTCCTTC	237	133
AACTATC	54	CTTTGTC	118	133
AACTATG	65	GAATTAT	118	133
AACTATT	87	GGAAGAA	118	133
AACTCAA	83	GTCTCTT	118	133
AACTCAC	69	TAAACTA	118	133

AACTCAG	61	TCATAAA	118	133
AACTCAT	101	TGAAAAT	237	133
AACTCCA	79	TGGTTTT	118	133
AACTCCC	54	TGTCTCT	118	133
AACTCCG	32	TTGGCAT	237	133
AACTCCT	43	TTGTAAA	118	133
AACTCGA	47	TTTTAAC	237	133
AACTCGC	32	AAAATCC	118	130
AACTCGG	43	AAACAAC	118	130
AACTCGT	36	AAAGTTG	118	130
AACTCTA	79	AAGTTTT	118	130
AACTCTC	87	AATTGGA	118	130
AACTCTG	36	ACAAAGA	118	130
AACTCTT	112	AGAAAGA	118	130
AACTGAA	61	ATAGATA	237	130
AACTGAC	25	ATGCACA	118	130
AACTGAG	36	ATGCATA	118	130
AACTGAT	65	ATTAATA	237	130
AACTGCA	94	ATTATTG	118	130
AACTGCA	94	ATTTGCT	237	130
AACTGCC	14	ATTTTAG	237	130
AACTGCT	58	CCCCTTT	118	130
AACTGGA	58	CTCCTCA	237	130
AACTGGC	40	CTCTCCA	118	130
AACTGGG	36	CTTGTTA	118	130
AACTGGT	36	CTTTGCT	237	130
AACTGTA	87	GGAGAGG	118	130
AACTGTC	29	GTGTTTT	118	130
AACTGTG	43	GTTTGGA	237	130
AACTGTT	72	TAAACTT	118	130
AACTTAA	94	TATAGAA	237	130
AACTTAC	14	TATATAG	118	130
AACTTAG	51	TCAATTT	118	130
AACTTAT	112	TCCAAAT	118	130
AACTTCA	58	TCCCTCC	355	130
AACTTCC	83	TCCTCCA	118	130
AACTTCG	11	TGCTCCT	118	130
AACTTCT	87	TGTAATT	118	130
AACTTGA	69	TGTTATT	118	130
AACTTGC	54	TTCATCA	118	130
AACTTGG	90	TTGCTTC	355	130
AACTTGT	108	AAAACCT	118	126
AACTTTA	115	AAAAGTT	118	126
AACTTTC	79	AAAATTG	118	126
AACTTTG	108	AAATAAG	118	126
AACTTTT	177	AAGCAAG	237	126
AAGAAAA	325	AAGGAAA	237	126
AAGAAAC	97	ACTTTTC	118	126
AAGAAAG	170	AGATATA	118	126
AAGAAAT	144	ATATGAA	118	126
AAGAACA	112	ATTACAA	118	126
AAGAACC	54	CAAAATC	118	126

AAGAACG	14	CAAAC TA	355	126
AAGAACT	87	CAAAC TT	118	126
AAGAAGA	346	CAAGAGG	118	126
AAGAAGC	69	CACCAAC	237	126
AAGAAGG	69	CAGAAAA	237	126
AAGAAGT	105	CATCTGA	118	126
AAGAATA	123	CATGTTT	118	126
AAGAATC	54	CCAATC	118	126
AAGAATG	61	CCGCCCC	118	126
AAGAATT	105	CCTATTT	118	126
AAGACAA	76	CGTACGT	237	126
AAGACAC	58	CTAGAAA	118	126
AAGACAG	40	CTATATT	237	126
AAGACAT	97	CTCTCTA	118	126
AAGACCA	69	CTTCCCC	118	126
AAGACCC	36	CTTTAAT	118	126
AAGACCG	40	CTTTTTC	237	126
AAGACCT	32	GAAGAGA	237	126
AAGACGA	83	GTATAAA	237	126
AAGACGC	14	GTTGATT	237	126
AAGACGG	51	TAATACT	118	126
AAGACGT	18	TACATGT	118	126
AAGACTA	58	TAGATTT	118	126
AAGACTC	36	TATCTTT	118	126
AAGACTG	22	TCTTCAA	118	126
AAGACTT	69	TTAAAGA	118	126
AAGAGAA	137	TTAACAA	118	126
AAGAGAC	51	AAAAGAG	118	123
AAGAGAG	148	AAAAGAT	118	123
AAGAGAT	112	AAATCCA	118	123
AAGAGCA	79	AACA ACT	118	123
AAGAGCC	69	AATCTAG	237	123
AAGAGCG	76	ACTAAAT	118	123
AAGAGCT	90	AGAATAA	118	123
AAGAGGA	144	AGAGTGT	118	123
AAGAGGC	90	AGTTTTA	118	123
AAGAGGG	97	ATAATAC	118	123
AAGAGGT	90	ATAGAGA	118	123
AAGAGTA	43	ATATGGA	118	123
AAGAGTC	47	ATCATGT	118	123
AAGAGTG	58	ATGTAAT	118	123
AAGAGTT	54	ATTTGCA	118	123
AAGATAA	90	CAAAC TA	237	123
AAGATAA	90	CAAAC TG	237	123
AAGATAG	61	CAATTTT	118	123
AAGATAT	141	CATCTTC	118	123
AAGATCA	69	CATGCAC	118	123
AAGATCC	29	CATTTCT	118	123
AAGATCG	36	CCAAAAG	118	123
AAGATCT	61	CCAAGCA	118	123
AAGATGA	97	CCATTCC	118	123
AAGATGC	47	CCGCGCG	237	123

AAGATGG	97	CGCCCGC	355	123
AAGATGT	87	CTGTTCT	118	123
AAGATTA	90	GCCCCCA	118	123
AAGATTC	65	GCCGGCC	118	123
AAGATTG	65	GCTTTTT	118	123
AAGATTT	162	GTTTCCA	118	123
AAGCAAA	220	TACAAAT	118	123
AAGCAAC	61	TACTTTT	237	123
AAGCAAG	126	TCCACCT	118	123
AAGCAAT	123	TCTGTTT	237	123
AAGCACA	90	TGCTATA	118	123
AAGCACC	72	TGTACAT	355	123
AAGCACG	79	TGTTGTT	118	123
AAGCACT	47	TTGGTGT	118	123
AAGCAGA	72	TTGTGCT	355	123
AAGCAGC	72	TTTAGAA	118	123
AAGCAGG	47	AAACTTG	118	119
AAGCAGT	32	AACAATA	118	119
AAGCATA	65	AAGTTTG	118	119
AAGCATC	54	AATACAA	237	119
AAGCATG	94	ACAATAA	355	119
AAGCATT	108	ACAATAT	118	119
AAGCCAA	94	ACTAGTT	118	119
AAGCCAC	54	ATAGTAA	118	119
AAGCCAG	58	ATCTATA	118	119
AAGCCAT	72	ATCTGTT	118	119
AAGCCCA	76	ATTACTA	118	119
AAGCCCC	43	CACTTTT	118	119
AAGCCCG	43	CATTATT	118	119
AAGCCCT	47	CCAAAAC	118	119
AAGCCGA	36	CCAACTC	237	119
AAGCCGC	36	CCATCTT	118	119
AAGCCGG	43	CCGGCCC	237	119
AAGCCGT	47	CCGGCCG	237	119
AAGCCTA	58	CCTATAT	355	119
AAGCCTC	58	CCTTCCC	592	119
AAGCCTG	14	CTAAATT	118	119
AAGCCTT	76	CTCTTCA	118	119
AAGCGAA	101	CTTCTTG	118	119
AAGCGAC	36	CTTTAAA	118	119
AAGCGAG	58	CTTTCTG	118	119
AAGCGAT	51	GATCATA	118	119
AAGCGCA	32	GATTATA	237	119
AAGCGCC	36	GCCCTCT	118	119
AAGCGCG	4	GCCGCCC	237	119
AAGCGCT	32	GGGGAGG	118	119
AAGCGGA	32	GTAAAAT	118	119
AAGCGGC	22	GTACATG	118	119
AAGCGGG	29	TAAAAGA	473	119
AAGCGGT	36	TAAAGCA	118	119
AAGCGTA	14	TATTCAA	118	119
AAGCGTC	25	TCAAAC	237	119

AAGCGTG	29	TCACTTT	118	119
AAGCGTT	47	TCATCTC	118	119
AAGCTAA	137	TCTTTTA	118	119
AAGCTAC	51	TGAATTT	355	119
AAGCTAG	108	TGATATA	118	119
AAGCTAT	69	TGCATGT	118	119
AAGCTCA	61	TTCAAAC	118	119
AAGCTCC	40	TTTTCCA	118	119
AAGCTCG	43	AAAATAC	118	115
AAGCTCT	69	AAACTGT	118	115
AAGCTGA	47	AAATATC	118	115
AAGCTGC	47	AACTAAT	355	115
AAGCTGG	36	AACTAGT	118	115
AAGCTGT	40	ACAACCT	118	115
AAGCTTA	61	AGCAAAG	118	115
AAGCTTC	69	AGCAAGC	118	115
AAGCTTG	72	AGTAAAA	237	115
AAGCTTT	90	AGTTTCT	118	115
AAGGAAA	126	ATAACAA	237	115
AAGGAAC	32	ATCCATT	237	115
AAGGAAG	87	ATCTTAT	237	115
AAGGAAT	54	ATGATAA	237	115
AAGGACA	29	ATGTTGA	118	115
AAGGACC	43	CAATATA	118	115
AAGGACG	51	CCCGCCC	355	115
AAGGACT	22	CCGCCCC	237	115
AAGGAGA	72	CCTCTTC	118	115
AAGGAGC	83	CTTATAT	237	115
AAGGAGG	87	CTTCAAA	118	115
AAGGAGT	87	CTTCCCT	237	115
AAGGATA	72	CTTCTCC	118	115
AAGGATC	58	CTTGTTG	118	115
AAGGATG	72	GAAATAT	118	115
AAGGATT	61	GCTTTTG	118	115
AAGGCAA	58	GGAGAGA	118	115
AAGGCAC	40	GGCCGGC	118	115
AAGGCAG	51	GTTTCAA	118	115
AAGGCAT	72	GTTTTCT	118	115
AAGGCCA	51	TAAATAG	237	115
AAGGCCC	43	TAAGAAA	118	115
AAGGCCG	43	TAGAATA	237	115
AAGGCCT	51	TAGAGAG	118	115
AAGGCGA	51	TCAACAT	118	115
AAGGCGC	32	TCATATT	118	115
AAGGCGG	29	TCCAATT	237	115
AAGGCGT	18	TCCATGT	118	115
AAGGCTA	79	TCCTTTG	118	115
AAGGCTC	51	TGACAAA	118	115
AAGGCTG	47	TTATTAA	118	115
AAGGCTT	58	TTTAATG	118	115
AAGGGAA	115	TTTATAC	118	115
AAGGGAC	61	TTTGTTA	118	115

AAGGGAG	83	TTTTAAG	237	115
AAGGGAT	36	AAAACGT	118	112
AAGGGCA	69	AAATACT	118	112
AAGGGCC	40	AAATGAC	118	112
AAGGGCG	43	AACCCTA	355	112
AAGGGCT	43	AACTCTT	118	112
AAGGGGA	61	AACTTAT	118	112
AAGGGGC	36	AAGAACA	118	112
AAGGGGG	87	AAGAGAT	237	112
AAGGGGT	43	AATACAT	118	112
AAGGGTA	61	AATCAAT	118	112
AAGGGTA	61	ACAACAT	118	112
AAGGGTC	51	ACAGAAA	237	112
AAGGGTT	51	ACTAATT	237	112
AAGGTAA	90	ACTATAT	237	112
AAGGTAC	43	ACTCTCT	237	112
AAGGTAG	32	AGAAACT	355	112
AAGGTAT	69	AGAGCAA	118	112
AAGGTCA	43	AGCTTTG	118	112
AAGGTCC	40	AGTATAA	118	112
AAGGTCCG	43	AGTTAAA	118	112
AAGGTCT	43	ATCATAA	118	112
AAGGTGA	94	ATGTTTC	118	112
AAGGTGC	29	ATTATGT	118	112
AAGGTGG	65	CAATAAT	355	112
AAGGTGT	54	CAATTAT	118	112
AAGGTTA	47	CAGCCGC	118	112
AAGGTTC	61	CCCAAAA	118	112
AAGGTTG	79	CCCCCTC	118	112
AAGGTTT	87	CGATCGA	118	112
AAGTAAA	105	CTGTTTT	118	112
AAGTAAC	36	CTTTTGC	118	112
AAGTAAG	36	GCAAAGA	118	112
AAGTAAT	47	GCCGCCA	237	112
AAGTACA	54	GCTATAA	118	112
AAGTACC	40	GTACGTA	237	112
AAGTACG	18	GTGCATT	118	112
AAGTACT	76	TATACTA	237	112
AAGTAGA	54	TCATGTT	118	112
AAGTAGC	43	TCCATTT	118	112
AAGTAGG	65	TCCTTCC	355	112
AAGTAGT	65	TCTCCAA	118	112
AAGTATA	105	TGCAAAA	118	112
AAGTATC	65	TGGTGCC	118	112
AAGTATG	69	TTATCAT	118	112
AAGTATT	101	TTATGCA	237	112
AAGTCAA	87	TTGCTTG	118	112
AAGTCAC	47	TTGGATT	118	112
AAGTCAG	47	TTTAAAG	118	112
AAGTCAT	61	TTTCTAG	118	112
AAGTCCA	54	TTTTATC	118	112
AAGTCCC	43	TTTTCTG	237	112

AAGTCCG	22	AAACTCA	118	108
AAGTCCT	29	AAAGATA	118	108
AAGTCGA	40	AACTTTG	118	108
AAGTCGC	11	AAGCTAG	118	108
AAGTCGG	36	AATGATA	118	108
AAGTCGT	40	ACATGCT	118	108
AAGTCTA	58	ACTTGCA	118	108
AAGTCTC	36	AGAGATT	118	108
AAGTCTG	40	AGTATAT	118	108
AAGTCTT	79	ATAACAT	237	108
AAGTGAA	101	ATACAAT	237	108
AAGTGAC	61	ATACTAT	118	108
AAGTGAG	43	ATATACT	118	108
AAGTGAT	72	ATATAGC	237	108
AAGTGCA	101	ATCACCA	355	108
AAGTGCA	101	ATCTGAT	118	108
AAGTGCC	25	ATGATCA	118	108
AAGTGCG	25	ATTATCT	118	108
AAGTGGA	69	ATTCTCT	237	108
AAGTGGC	43	CATCAAA	237	108
AAGTGGG	61	CATCCAA	118	108
AAGTGGT	90	CCAATCC	118	108
AAGTGTA	61	CCATCCA	118	108
AAGTGTC	36	CCATGCA	237	108
AAGTG TG	54	CCTTTGC	118	108
AAGTGTT	79	GAAAAGG	118	108
AAGTTAA	83	GAAAGAG	237	108
AAGTTAC	43	GAGCAGC	237	108
AAGTTAG	61	GAGGTGG	118	108
AAGTTAT	61	GATTGAT	118	108
AAGTTCA	72	GCCGCGC	118	108
AAGTTCC	32	GTGTCTC	118	108
AAGTTCG	29	GTTATTT	118	108
AAGTTCT	54	TAAATTC	118	108
AAGTTGA	65	TACAATA	237	108
AAGTTGC	72	TAGTATA	118	108
AAGTTGG	65	TATGATA	237	108
AAGTTGT	130	TCAATAA	118	108
AAGTTTA	141	TCATCAC	118	108
AAGTTTC	65	TCCTTTC	118	108
AAGTTTG	119	TGAATTA	118	108
AAGTTTT	130	TGATAAA	118	108
AATAAAA	386	TGCACAC	118	108
AATAAAC	126	TGCTTCT	118	108
AATAAAG	137	TGGAGCT	118	108
AATAAAT	321	TGTATAA	118	108
AATAACA	141	TGTTTCA	118	108
AATAACC	69	TGTTTCC	237	108
AATAACG	22	TTATTCA	118	108
AATAACT	87	TTTATGA	237	108
AATAAGA	94	AAACCTA	237	105
AATAAGC	51	AACAATT	118	105

AATAAGG	72	AAGAAGT	118	105
AATAAGT	119	AAGTAAA	118	105
AATAATA	238	AATAATC	355	105
AATAATC	105	AATGATT	118	105
AATAATG	137	AATGGAA	118	105
AATAATT	206	AATGGAG	118	105
AATACAA	119	AATTCTC	118	105
AATACAC	61	ACACCAA	118	105
AATACAG	51	ACATGAT	118	105
AATACAT	112	ACCCAAA	118	105
AATACCA	94	ACGAAAA	118	105
AATACCC	65	AGAGCTC	118	105
AATACCG	25	AGCACAA	118	105
AATACCT	58	AGTGTTG	118	105
AATACGA	22	ATAGAAT	118	105
AATACGC	29	ATCTTCA	237	105
AATACGG	11	ATGATTA	118	105
AATACGT	22	ATGTGTT	118	105
AATACTA	105	ATGTTTA	118	105
AATACTC	69	CAACTAA	118	105
AATACTG	32	CACACAA	237	105
AATACTT	83	CACCTCA	118	105
AATAGAA	101	CACCTCA	118	105
AATAGAC	40	CACCTCC	118	105
AATAGAG	87	CACGTAC	118	105
AATAGAT	115	CATGGTT	118	105
AATAGCA	51	CCCATCT	118	105
AATAGCC	51	CCTCCAA	118	105
AATAGCG	32	CCTCCAC	237	105
AATAGCT	65	CCTCGCC	237	105
AATAGGA	65	CTCGCCG	237	105
AATAGGC	25	CTCTGCT	237	105
AATAGGG	40	CTCTTCC	355	105
AATAGGT	43	CTGTTTG	118	105
AATAGTA	105	CTTGCTC	118	105
AATAGTC	51	CTTGTGC	118	105
AATAGTG	69	GAATTTT	118	105
AATAGTT	119	GAGGGAG	237	105
AATATAA	245	GATGATA	118	105
AATATAC	97	GCATGCC	237	105
AATATAG	141	GCTTTCT	118	105
AATATAT	274	GGTTTGT	118	105
AATATCA	97	TAAAGAT	118	105
AATATCC	47	TAAAGTT	118	105
AATATCG	32	TATCATT	118	105
AATATCT	97	TATTATG	237	105
AATATGA	133	TCACAAA	118	105
AATATGC	65	TCAGAAA	118	105
AATATGG	83	TCATATC	118	105
AATATGT	144	TCATTAT	118	105
AATATTA	166	TCATTTC	237	105
AATATTC	69	TCCTCTA	118	105

AATATTG	101	TCTTTGG	118	105
AATATTT	271	TGATTGA	237	105
AATCAAA	105	TGCCGCC	355	105
AATCAAC	43	TGGATGA	118	105
AATCAAG	87	TGTGTCT	118	105
AATCAAT	112	TTAGAAA	118	105
AATCACA	43	TTAGTTT	118	105
AATCACC	61	TTCCCCT	118	105
AATCACG	29	TTGTATA	118	105
AATCACT	112	TTGTTGG	118	105
AATCAGA	58	AAAGCAC	237	101
AATCAGC	76	AAAGGTA	118	101
AATCAGG	51	AAATTAG	118	101
AATCAGT	43	AAATTGA	118	101
AATCATA	76	AACCTAT	118	101
AATCATC	90	AACTATA	237	101
AATCATG	112	AAGCGAA	118	101
AATCATT	126	AAGTATT	118	101
AATCCAA	61	AATCCTA	237	101
AATCCAC	97	ACACAAG	118	101
AATCCAG	94	ACCAACT	118	101
AATCCAT	133	ACCTATA	237	101
AATCCCA	79	ACTTATA	118	101
AATCCCC	40	ACTTATA	118	101
AATCCCG	22	ACTTTTA	355	101
AATCCCT	61	AGAATAT	118	101
AATCCGA	32	AGAGCCA	118	101
AATCCGC	32	AGAGCCA	118	101
AATCCGG	40	AGATTAT	237	101
AATCCGT	51	ATAGTTT	118	101
AATCCTA	101	ATGAATT	237	101
AATCCTC	87	ATTGGTT	118	101
AATCCTG	32	ATTTGTG	118	101
AATCCTT	72	ATTTTCC	118	101
AATCGAA	36	CAAGTTT	118	101
AATCGAC	36	CAATTCA	118	101
AATCGAG	43	CAATTTA	118	101
AATCGAT	47	CACCACT	118	101
AATCGCA	58	CACTCTC	237	101
AATCGCC	40	CAGCAAC	237	101
AATCGCG	14	CAGCCAA	237	101
AATCGCT	22	CATACAT	118	101
AATCGGA	25	CATCTCA	118	101
AATCGGC	90	CAAACC	473	101
AATCGGG	29	CCAACCC	118	101
AATCGGT	40	CCACCCC	118	101
AATCGTA	25	CCATCAC	118	101
AATCGTC	14	CCATCTC	237	101
AATCGTG	32	CCATCTG	118	101
AATCGTT	32	CCCTCCC	237	101
AATCTAA	137	CCTCCCT	237	101
AATCTAC	69	CGCCACC	118	101

AATCTAG	123	CGGCTGC	118	101
AATCTAT	65	CGTGGAG	118	101
AATCTCA	69	CTCAAAA	118	101
AATCTCC	69	CTTCTAA	118	101
AATCTCG	40	CTTTCCA	118	101
AATCTCT	101	GATTTGG	118	101
AATCTGA	54	GCAGCAA	118	101
AATCTGC	29	GCTCTGC	237	101
AATCTGG	40	GCTTTGT	118	101
AATCTGT	61	GGTTTTT	118	101
AATCTTA	87	GTGCTCT	118	101
AATCTTC	79	TAACTTT	118	101
AATCTTG	105	TAGATAT	118	101
AATCTTT	170	TAGTTTA	118	101
AATGAAA	133	TATTGAA	237	101
AATGAAC	61	TCCAATC	237	101
AATGAAG	97	TCCCCAC	118	101
AATGAAT	105	TCCTTGC	118	101
AATGACA	87	TCTACAT	118	101
AATGACC	47	TGCACCA	237	101
AATGACG	32	TGCTCTC	118	101
AATGACT	97	TGGACTT	118	101
AATGAGA	54	TGGTGTT	118	101
AATGAGC	51	TTATTTT	118	101
AATGAGG	25	TTCCAAG	118	101
AATGAGT	47	TTCCCTC	237	101
AATGATA	108	TTCTGTT	355	101
AATGATC	65	TTGTCTA	118	101
AATGATG	101	TTTAAGA	118	101
AATGATT	105	TTTAATC	118	101
AATGCAA	101	TTTACTT	118	101
AATGCAC	94	TTTGAAC	118	101
AATGCAG	51	AAACATC	118	97
AATGCAT	101	AAAGGAA	355	97
AATGCCA	72	AAATACC	118	97
AATGCCC	25	AAATGTG	118	97
AATGCCG	32	AACACCA	118	97
AATGCCT	51	AACTACT	118	97
AATGCGA	43	AAGAAAC	118	97
AATGCGA	43	AATATAC	237	97
AATGCGC	25	AATCCAC	118	97
AATGCGT	47	AATTTGG	118	97
AATGCTA	51	ACCACAT	118	97
AATGCTC	72	AGATAGA	118	97
AATGCTG	54	ATAAATC	118	97
AATGCTT	108	ATAGATT	118	97
AATGGAA	105	ATATGGT	118	97
AATGGAC	43	ATCCACA	118	97
AATGGAG	105	ATCCAGA	118	97
AATGGAT	87	ATCTTTG	118	97
AATGGCA	32	ATTATGA	118	97
AATGGCC	29	ATTGATC	118	97

AATGGCG	18	ATTTGGC	237	97
AATGGCT	40	CAAAGCA	237	97
AATGGGA	94	CAAAGCA	237	97
AATGGGC	22	CAACCCA	118	97
AATGGGG	43	CAGCCAG	118	97
AATGGGT	54	CATTTGC	118	97
AATGGTA	54	CCAACGG	118	97
AATGGTC	47	CCATTTT	118	97
AATGGTG	36	CCCACCA	118	97
AATGGTT	108	CCCGCGC	237	97
AATGTAA	79	CCCTAGC	237	97
AATGTAC	54	CCTATAA	118	97
AATGTAG	47	CCTCATC	118	97
AATGTAT	137	CCTCCCA	118	97
AATGTCA	65	CGGCCCA	237	97
AATGTCC	25	CGTCCGC	118	97
AATGTCCG	22	CTCACTC	355	97
AATGTCT	51	CTCCCCT	237	97
AATGTGA	76	CTCGCTC	118	97
AATGTGC	58	GAAAACC	118	97
AATGTGG	40	GAAACTG	118	97
AATGTGT	79	GATCGAG	118	97
AATGTTA	112	GCAAACCT	118	97
AATGTTC	76	GCATTTA	118	97
AATGTTG	141	GCCCGCC	237	97
AATGTTT	137	GCGCGCC	118	97
AATTA AAA	220	GCTCCCA	118	97
AATTAAC	69	GGAAGAG	237	97
AATTAAG	72	GGAGAGC	118	97
AATTAAT	173	GTCTTGT	118	97
AATTACA	97	GTGACAA	118	97
AATTACC	54	GTTGGAT	237	97
AATTACG	14	GTTGTTT	118	97
AATTACT	94	TAATATG	118	97
AATTAGA	87	TAGAAAC	355	97
AATTAGC	61	TGCCGAG	118	97
AATTAGG	90	TGCTTTA	118	97
AATTAGT	79	TGGAGAG	237	97
AATTATA	213	TGGATCT	237	97
AATTATC	87	TTAAAGT	118	97
AATTATG	148	TTATAGT	118	97
AATTATT	238	TTATTGA	118	97
AATTCAA	155	TTCCCCA	118	97
AATTCAA	155	TTCGGTT	118	97
AATTCAC	90	TTGATCG	118	97
AATTCAG	90	TTGCTCC	118	97
AATTC CA	87	TTGGATC	355	97
AATTC CC	47	TTGTGGA	118	97
AATTC CG	14	TTTAAAC	118	97
AATTC CT	87	TTTATCC	355	97
AATTC GA	58	TTTCAAG	118	97
AATTC GC	22	TTTCCAC	237	97

AATTCGG	29	TTTGTGC	118	97
AATTCGT	51	TTTGTGG	237	97
AATTCTA	101	AAACCCT	237	94
AATTCTC	105	AACAAAG	118	94
AATTCTG	40	AATTGAA	118	94
AATTCTT	141	ACATAGA	118	94
AATTGAA	94	ACCAGCT	118	94
AATTGAC	94	ACCCTAG	355	94
AATTGAG	83	ACTCCAA	355	94
AATTGAT	69	ACTTTTG	118	94
AATTGCA	83	AGAACAA	355	94
AATTGCC	69	AGAACTA	118	94
AATTGCG	25	AGACAAA	118	94
AATTGCT	69	AGACAAA	118	94
AATTGGA	130	AGATAAT	118	94
AATTGGC	36	AGCTCAT	118	94
AATTGGG	25	AGCTTGT	237	94
AATTGGT	69	AGGGAAA	118	94
AATTGTA	79	AGTAATA	118	94
AATTGTC	61	ATCAAAC	118	94
AATTGTG	83	ATGTTTG	237	94
AATTGTT	141	CAAATGA	118	94
AATTTAA	220	CAACTCC	237	94
AATTTAC	76	CACAAGA	118	94
AATTTAG	112	CACCCCC	118	94
AATTTAT	198	CATCAAC	118	94
AATTTCA	141	CCCATCC	355	94
AATTTCC	58	CCCGGCC	118	94
AATTTCG	54	CCCTTCC	355	94
AATTTCT	170	CCGAGCC	118	94
AATTTGA	180	CCTCTGC	118	94
AATTTGC	83	CCTTTCA	118	94
AATTTGG	97	CGGCCGG	237	94
AATTTGT	148	CGTCTTC	237	94
AATTTTA	213	CTACAAA	118	94
AATTTTC	155	CTACTAG	118	94
AATTTTG	148	CTATTAA	118	94
AATTTTT	245	CTTCGTT	118	94
ACAAAAA	256	CTTTGAA	118	94
ACAAAAC	137	GAAACAT	118	94
ACAAAAG	101	GAATAAT	237	94
ACAAAAT	155	GAGCATA	118	94
ACAAACA	202	GAGCCAG	237	94
ACAAACC	83	GATTTGC	118	94
ACAAACG	36	GCAAATT	118	94
ACAAACT	87	GCAACGC	118	94
ACAAAGA	130	GCCTCTC	237	94
ACAAAGC	54	GGCGGCC	237	94
ACAAAGG	69	GGGCCCA	118	94
ACAAAGT	79	GGTAAAA	118	94
ACAAATA	152	GTAAATA	118	94
ACAAATC	130	GTCTTCC	118	94

ACAAATG	79	GTGGTTG	118	94
ACAAATT	137	GTGTAAA	118	94
ACAACAA	170	GTTATAT	118	94
ACAACAC	90	TAAATCT	237	94
ACAACAG	94	TAAGATA	118	94
ACAACAT	112	TAATTGC	118	94
ACAACCA	79	TACTCAT	118	94
ACAACCC	58	TCCAAAC	118	94
ACAACCG	40	TCCCTCA	118	94
ACAACCT	87	TCCTCCG	237	94
ACAACGA	40	TCTCATA	118	94
ACAACGC	14	TCTCGCC	237	94
ACAACGG	43	TCTGTTC	355	94
ACAACGT	54	TCTTGGC	118	94
ACAACTA	69	TGATCTC	118	94
ACAACTC	54	TGATCTT	118	94
ACAACTG	32	TGCCTCT	237	94
ACAACTT	115	TGCTTCC	237	94
ACAAGAA	126	TGCTTGA	118	94
ACAAGAC	40	TGGAAGA	237	94
ACAAGAG	94	TGGATTT	237	94
ACAAGAT	76	TGGTTTC	118	94
ACAAGCA	90	TGTGGTG	237	94
ACAAGCC	87	TGTTGAA	118	94
ACAAGCG	47	TTATACT	118	94
ACAAGCT	54	TTCCATC	118	94
ACAAGGA	83	TTCTCAT	118	94
ACAAGGC	65	TTCTTGG	118	94
ACAAGGG	58	TTGGCAA	118	94
ACAAGGT	47	TTTCTGA	237	94
ACAAGTA	72	AAAAGCC	118	90
ACAAGTC	54	AAACCCA	118	90
ACAAGTG	130	AAAGTTA	118	90
ACAAGTT	87	AACAATC	118	90
ACAATAA	119	AACCAAC	118	90
ACAATAC	79	AAGAGGC	118	90
ACAATAG	40	AAGAGGT	118	90
ACAATAT	119	AAGATAA	118	90
ACAATCA	65	AAGATAA	118	90
ACAATCC	87	AAGCACA	118	90
ACAATCG	25	AAGGTAA	118	90
ACAATCT	51	AATCGGC	118	90
ACAATGA	65	AATTCAG	118	90
ACAATGC	43	ACAACAC	118	90
ACAATGG	29	ACAAGCA	118	90
ACAATGT	79	ACTGCTC	118	90
ACAATTA	97	AGAGGGA	237	90
ACAATTC	69	AGCATAT	118	90
ACAATTG	72	AGGGAGA	118	90
ACAATTT	105	AGGTAAA	237	90
ACACAAA	119	AGTTAGT	118	90
ACACAAC	94	ATAAGAT	118	90

ACACAAG	101	ATACATT	118	90
ACACAAT	83	ATATGCT	237	90
ACACACA	162	ATCACAT	237	90
ACACACA	162	ATGATCT	118	90
acacacc	0	CAAGCCC	118	90
ACACACG	58	CAAGCTA	237	90
ACACACT	47	CAATCTC	118	90
ACACAGA	32	CACAACA	118	90
ACACAGC	87	CAGAAGC	118	90
ACACAGG	36	CATCCTT	118	90
ACACAGT	32	CCACTTG	118	90
ACACATA	101	CCCACAT	118	90
ACACATC	123	CCCCATC	237	90
ACACATG	112	CCGTCCG	118	90
ACACATT	101	CCTAGCT	118	90
ACACCAA	105	CCTCCTT	355	90
ACACCAC	61	CGACGAC	118	90
ACACCAG	47	CGAGCCA	237	90
ACACCAT	83	CGGCCAC	237	90
ACACCCA	32	CTAACTT	118	90
ACACCCC	47	CTCCCAA	118	90
ACACCCG	22	CTTTTAA	118	90
ACACCCCT	72	GAATTTT	118	90
ACACCGA	43	GCATAAA	118	90
ACACCGC	40	GCCCAAG	118	90
ACACCGG	25	GCCCCCG	118	90
ACACCGT	43	GGAATAA	118	90
ACACCTA	72	GGATGAA	118	90
ACACCTC	76	GGCCACA	118	90
ACACCTG	43	GGCTATA	118	90
ACACCTT	43	GTTCTTG	118	90
ACACGAA	54	GTTTCTA	118	90
ACACGAC	54	GTTTGGC	118	90
ACACGAG	43	TAATATC	118	90
ACACGAT	14	TACTTGC	118	90
ACACGCA	47	TAGACTA	118	90
ACACGCC	36	TAGATAA	118	90
ACACGCG	43	TAGCTAA	118	90
ACACGCT	47	TAGTAGA	118	90
ACACGGA	40	TAGTTTC	237	90
ACACGGC	43	TATCCAT	355	90
ACACGGG	14	TATGTTC	118	90
ACACGGT	61	TATTGGT	118	90
ACACGTA	43	TCACTCT	237	90
ACACGTC	51	TCCCTTC	118	90
ACACGTG	72	TCTTCAC	118	90
ACACGTT	32	TGCAACG	118	90
ACACTAA	76	TGCTTAT	118	90
ACACTAC	43	TGGATCC	118	90
ACACTAG	54	TGGCATT	118	90
ACACTAT	72	TGTGCTT	118	90
ACACTCA	54	TGTGTGC	118	90

ACACTCC	54	TTATGAT	237	90
ACACTCG	36	TTGCAAG	118	90
ACACTCT	36	TTGGTCT	118	90
ACACTGA	29	AAACTAT	355	87
ACACTGC	43	AACTATT	118	87
ACACTGG	54	AATAACT	118	87
ACACTGT	72	AATAGAG	118	87
ACACTTA	65	AATGACA	118	87
ACACTTC	40	ACAAACT	237	87
ACACTTG	51	ACCAACC	118	87
ACACTTT	65	ACCATCT	118	87
ACAGAAA	112	ACTCATC	118	87
ACAGAAC	36	ACTCTTC	237	87
ACAGAAG	76	ACTTCTA	118	87
ACAGAAT	51	AGAGAGT	118	87
ACAGACA	47	AGATTTT	118	87
ACAGACC	25	AGCACAC	118	87
ACAGACG	32	AGCCAAT	118	87
ACAGACT	58	AGCCGCA	237	87
ACAGAGA	54	AGCTAAT	118	87
ACAGAGC	14	AGGCAGC	118	87
ACAGAGG	47	ATCCAAT	118	87
ACAGAGT	43	ATGGAGA	118	87
ACAGATA	51	ATGTACA	237	87
ACAGATC	36	ATTCAAC	118	87
ACAGATG	51	ATTTCTG	355	87
ACAGATT	72	CAAACAG	118	87
ACAGCAA	51	CAAGCAG	118	87
ACAGCAC	61	CACCATC	118	87
ACAGCAG	51	CACCGTC	118	87
ACAGCAT	54	CAGACGA	118	87
ACAGCCA	90	CAGACGA	118	87
ACAGCCC	69	CATCACC	118	87
ACAGCCG	51	CATCATA	118	87
ACAGCCT	40	CCAAACT	118	87
ACAGCGA	32	CCACAAG	118	87
ACAGCGA	32	CCACATG	237	87
ACAGCGC	32	CCAGTTT	118	87
ACAGCGG	25	CCCCCAC	118	87
ACAGCTA	61	CCCCTTC	237	87
ACAGCTC	47	CCCTCCA	237	87
ACAGCTG	22	CCCTCTT	118	87
ACAGCTT	61	CGCCGGC	118	87
ACAGGAA	43	CGCCGTC	237	87
ACAGGAC	40	CGCCTCC	118	87
ACAGGAG	43	CGCCTGC	118	87
ACAGGAT	25	CGCGTGC	118	87
ACAGGCA	32	CGTGCCG	118	87
ACAGGCC	36	CTCCCCA	355	87
ACAGGCG	43	CTGCATT	237	87
ACAGGCT	40	CTGCTCT	355	87
ACAGGGA	36	CTTATCC	118	87

ACAGGGC	51	CTTGGCA	118	87
ACAGGGG	47	CTTGGTG	118	87
ACAGGGT	40	CTTTGGA	237	87
ACAGGTA	54	GAAGATT	237	87
ACAGGTC	65	GACCGTT	118	87
ACAGGTG	22	GAGCTCA	118	87
ACAGGTT	43	GAGGGGG	118	87
ACAGTAA	36	GAGTTTG	118	87
ACAGTAC	54	GATCATG	118	87
ACAGTAG	40	GATGATT	118	87
ACAGTAT	47	GCATCAT	118	87
ACAGTCA	43	GCCACCT	118	87
ACAGTCC	83	GCCACGC	118	87
ACAGTCG	11	GCGGAGG	118	87
ACAGTCT	29	GCTCCTT	118	87
ACAGTGA	61	GCTCTCC	118	87
ACAGTGC	36	GGCAGCA	237	87
ACAGTGG	32	GGCCGCC	118	87
ACAGTGT	54	GGTCTTT	118	87
ACAGTTA	40	GGTGGCG	118	87
ACAGTTC	32	GGTGTTT	118	87
ACAGTTG	40	GTATTAT	118	87
ACAGTTT	36	GTCAAAC	118	87
ACATAAA	144	GTCCTTG	118	87
ACATAAC	54	GTGTGTG	118	87
ACATAAG	65	GTTGAAA	118	87
ACATAAT	94	GTTTGAA	118	87
ACATACA	76	TACTAGT	118	87
ACATACC	61	TACTATA	237	87
ACATACG	29	TAGCTAC	118	87
ACATACT	29	TATAAAG	237	87
ACATAGA	94	TATTGAT	118	87
ACATAGC	32	TCACCAA	237	87
ACATAGG	25	TCCAACC	237	87
ACATAGT	90	TCCATCT	118	87
ACATATA	144	TCCGTCC	118	87
ACATATC	58	TCCTCAC	237	87
ACATATG	119	TCCTCGC	118	87
ACATATT	133	TCGATCC	118	87
ACATCAA	87	TCGGTTT	118	87
ACATCAC	72	TCTGCAT	118	87
ACATCAG	58	TGAAGTG	118	87
ACATCAT	69	TGCACCC	118	87
ACATCCA	79	TGCGCGC	118	87
ACATCCC	76	TGCTTTC	118	87
ACATCCG	25	TGGACCA	118	87
ACATCCT	79	TGGCATG	118	87
ACATCGA	43	TGTGAAA	118	87
ACATCGC	22	TGTTAAT	118	87
ACATCGG	32	TTAAGAA	118	87
ACATCGT	25	TTAATTG	118	87
ACATCTA	94	TTATAAC	118	87

ACATCTC	79	TTATTGC	118	87
ACATCTG	83	TTCAAAG	118	87
ACATCTT	90	TTGAACC	118	87
ACATGAA	90	TTGGTTA	118	87
ACATGAC	79	TTGTTAA	118	87
ACATGAG	79	TTGTTAA	118	87
ACATGAT	105	TTAACA	237	87
ACATGCA	130	AAAAGGC	118	83
ACATGCC	43	AAAGAGC	118	83
ACATGCG	22	AACATAG	118	83
ACATGCT	108	AACATCA	118	83
ACATGGA	108	AACATTA	118	83
ACATGGC	43	AACCCAC	237	83
ACATGGG	72	AAGACGA	118	83
ACATGGT	79	AATACTT	118	83
ACATGTA	126	AATATGG	118	83
ACATGTC	83	ACAGTCC	118	83
ACATGTG	137	ACCTAGA	118	83
ACATGTT	133	AGACGAA	237	83
ACATTAA	79	AGATCAT	118	83
ACATTAC	61	AGCTCAG	118	83
ACATTAG	47	AGTAGAA	237	83
ACATTAT	54	AGTTCTC	118	83
ACATTCA	61	ATATTGA	118	83
ACATTCC	29	ATCATT	118	83
ACATTCCG	22	ATCGATC	118	83
ACATTCT	72	ATTGCTT	118	83
ACATTGA	51	CAAGCCA	118	83
ACATTGC	18	CAAGTGG	118	83
ACATTGG	54	CAATTAA	118	83
ACATTGT	58	CAGCAAG	118	83
ACATTTA	162	CATGCTG	118	83
ACATTTTC	76	CCACTCT	118	83
ACATTTTG	105	CCATAGT	118	83
ACATTTT	188	CCCAATC	237	83
ACCAAAA	202	CCCCACA	355	83
ACCAAAC	137	CCCGTTT	118	83
ACCAAAG	87	CCCTCCG	355	83
ACCAAAT	170	CCGCCCT	237	83
ACCAACA	112	CGAGAAA	118	83
ACCAACC	87	CGCCAC	237	83
ACCAACG	18	CTATAAT	118	83
ACCAACT	101	CTCCAAT	355	83
ACCAAGA	94	CTCCTGC	118	83
ACCAAGC	61	CTCGCCC	118	83
ACCAAGG	51	CTCGTCC	118	83
ACCAAGT	51	CTGCCCT	118	83
ACCAATA	54	CTTCCCA	118	83
ACCAATC	61	CTTTCAT	118	83
ACCAATG	69	GAAAAGC	118	83
ACCAATT	79	GAAGTTT	118	83
ACCACAA	72	GACCCAA	237	83

ACCACAC	65	GAGCAAG	118	83
ACCACAG	40	GATTTCT	118	83
ACCACAT	97	GCACGTC	118	83
ACCACCA	166	GCATTAT	118	83
ACCACCC	65	GCCACTT	118	83
ACCACCG	72	GCCAGCT	237	83
ACCACCT	76	GCCCATG	118	83
ACCACGA	43	GCCCGGC	118	83
ACCACGC	36	GCCCTCC	118	83
ACCACGG	40	GGAGCCA	118	83
ACCACGT	29	GGCATGC	118	83
ACCACTA	72	GGCCAAA	118	83
ACCACTC	65	GGCCACC	118	83
ACCACTG	54	GGCCACG	237	83
ACCACTT	83	GGCTGCT	118	83
ACCAGAA	79	GTGAGAG	237	83
ACCAGAC	97	GTGGTTT	118	83
ACCAGAG	51	GTTCTCT	118	83
ACCAGAT	51	TAAATCC	118	83
ACCAGCA	76	TAACAAT	118	83
ACCAGCC	61	TAGTAAT	118	83
ACCAGCG	18	TATATGG	118	83
ACCAGCT	94	TATCTGA	118	83
ACCAGGA	29	TATGCAA	118	83
ACCAGGC	18	TATGCTT	118	83
ACCAGGG	47	TCACATA	118	83
ACCAGGT	25	TCACCAC	237	83
ACCAGTA	36	TCACCTA	118	83
ACCAGTC	40	TCGCCGC	355	83
ACCAGTG	51	TGAGAGA	355	83
ACCAGTT	47	TGCAAGC	237	83
ACCATAA	76	TGTCAAT	118	83
ACCATAA	76	TGTCCAT	118	83
ACCATAC	36	TGTCTAG	118	83
ACCATAT	51	TGTGGAT	118	83
ACCATCA	97	TGTTGCC	118	83
ACCATCC	43	TTAGCAA	118	83
ACCATCG	36	TTCAAGT	237	83
ACCATCT	87	TTGATTG	118	83
ACCATGA	54	TTGGGTT	118	83
ACCATGC	90	TTGTGTA	118	83
ACCATGG	76	TTTCTGG	237	83
ACCATGT	65	AACGAAA	237	79
ACCATTA	40	AACGAGC	237	79
ACCATTC	54	AACTAAC	237	79
ACCATTG	36	AACTCCA	118	79
ACCATTT	101	AAGAGCA	118	79
ACCCAAA	105	AAGCACG	118	79
ACCCAAC	76	AATGTAA	118	79
ACCCAAG	51	AATGTGT	118	79
ACCCAAT	79	ACAATAC	118	79
ACCCACA	47	ACATGGT	118	79

ACCCACC	61	ACCCAAT	118	79
ACCCACG	76	ACCGTTG	118	79
ACCCACT	43	ACCTCCC	118	79
ACCCAGA	29	ACCTCCT	118	79
ACCCAGC	32	ACGTGGA	118	79
ACCCAGG	22	ACTAACC	237	79
ACCCAGT	25	ACTTGCT	118	79
ACCCATA	58	AGATTCT	118	79
ACCCATC	72	AGCAACT	118	79
ACCCATG	65	AGGCATC	118	79
ACCCATT	36	ATACAAG	118	79
ACCCCAA	61	ATCAATA	118	79
ACCCCAC	51	ATCCATG	118	79
ACCCCAG	14	ATCTAGT	118	79
ACCCCAT	47	ATGCAAT	118	79
ACCCCCA	29	ATTAAAG	118	79
ACCCCCC	58	CAAACGA	237	79
ACCCCCG	47	CACCCAC	118	79
ACCCCCT	58	CAGAAAC	118	79
ACCCCGA	36	CATAGAA	118	79
ACCCCGC	36	CATTCCC	118	79
ACCCCGG	29	CCACGCG	118	79
ACCCCGT	51	CCCAAGC	118	79
ACCCCTA	43	CCCACGA	118	79
ACCCCTC	32	CCCACGA	118	79
ACCCCTG	58	CCCCTC	118	79
ACCCCTT	54	CCCTCAC	118	79
ACCCGAA	22	CCGTTTT	118	79
ACCCGAC	94	CCTAAAA	118	79
ACCCGAG	32	CCTTGTG	118	79
ACCCGAT	29	CGAGAGA	118	79
ACCCGCA	29	CGTCACC	118	79
ACCCGCC	47	CGTTTGG	118	79
ACCCGCG	40	CTATCAT	118	79
ACCCGCT	18	CTCACCA	237	79
ACCCGGA	25	CTCCACT	118	79
ACCCGGC	47	CTCCAC	118	79
ACCCGGG	18	CTCCTCG	118	79
ACCCGGT	32	CTGCAAG	237	79
ACCCGTA	11	CTGCTAT	237	79
ACCCGTC	58	CTGGTTT	118	79
ACCCGTG	29	CTTGCAC	118	79
ACCCGTT	36	GAAAGGT	118	79
ACCCTAA	76	GAACAAA	118	79
ACCCTAC	29	GAACCCT	118	79
ACCCTAG	94	GAAGACT	118	79
ACCCTAT	32	GAAGCTA	118	79
ACCCTCA	65	GAATGAT	118	79
ACCCTCC	58	GACCACC	118	79
ACCCTCG	36	GAGAGCA	355	79
ACCCTCT	43	GATATAG	118	79
ACCCTGA	4	GATCGAT	473	79

ACCCTGA	4	GATCTTG	118	79
ACCCTGG	25	GCCACAA	118	79
ACCCTGT	79	GCCCCTC	118	79
ACCCTTA	43	GCCCGCG	118	79
ACCCTTC	72	GCCTCCA	118	79
ACCCTTG	72	GCCTGCA	118	79
ACCCTTT	61	GGAAAGG	118	79
ACCGAAA	61	GGAGAAG	118	79
ACCGAAC	69	GGATTTT	118	79
ACCGAAG	18	GGTAAAG	118	79
ACCGAAT	22	GGTGGGG	118	79
ACCGACA	36	GTCCGCC	118	79
ACCGACC	76	GTCCTCC	237	79
ACCGACG	40	GTCGTCT	237	79
ACCGACT	18	GTGTATA	237	79
ACCGAGA	47	GTTTGCT	355	79
ACCGAGC	65	TAATTCT	118	79
ACCGAGG	65	TATAACA	118	79
ACCGAGT	32	TATAGTA	118	79
ACCGATA	14	TCAAAAC	118	79
ACCGATC	69	TCACCAT	118	79
ACCGATG	40	TCACTCC	118	79
ACCGATT	43	TCCACTC	118	79
ACCGCAA	18	TCCCATC	237	79
ACCGCAC	29	TCCCAT	237	79
ACCGCAG	36	TCCCTCT	237	79
ACCGCAT	22	TCCGGCC	237	79
ACCGCCA	36	TCTCCTG	118	79
ACCGCCC	83	TCTCTGC	237	79
ACCGCCG	54	TCTTCCA	118	79
ACCGCCT	36	TGCAAGT	237	79
ACCGCGA	25	TGCATAG	118	79
ACCGCGC	47	TGCTCTA	118	79
ACCGCGG	40	TGCTCTG	237	79
ACCGCGT	29	TGTCACC	118	79
ACCGCTA	25	TGTGCTC	237	79
ACCGCTC	29	TTATGTA	118	79
ACCGCTG	43	TTCCAAC	237	79
ACCGCTT	32	TTGATGG	118	79
ACCGGAA	32	TTTCCA	118	79
ACCGGAC	170	TTTCGGT	118	79
ACCGGAG	29	AAAAGAC	118	76
ACCGGAT	40	AAAGCGA	118	76
ACCGGCA	51	AAAGCGA	118	76
ACCGGCC	58	AAAGGAT	118	76
ACCGGCG	36	AAATCAC	118	76
ACCGGCT	65	AAGCCCA	118	76
ACCGGGA	29	AAGCCTT	118	76
ACCGGGC	25	AAGTACT	118	76
ACCGGGG	51	ACAAGAT	118	76
ACCGGGT	40	ACACCTC	118	76
ACCGGTA	29	ACATACA	118	76

ACCGGTA	29	ACCCAAC	118	76
ACCGGTC	54	ACCCACG	237	76
ACCGGTG	36	ACCGACC	118	76
ACCGTAA	18	ACGACGA	118	76
ACCGTAC	43	ACGTGGC	237	76
ACCGTAG	25	ACTACTC	118	76
ACCGTAT	18	ACTCCAT	118	76
ACCGTCA	32	ACTGTAA	118	76
ACCGTCC	76	ACTTTGC	237	76
ACCGTCG	32	AGACTAA	118	76
ACCGTCT	43	AGAGAAC	118	76
ACCGTGA	22	AGAGCGA	118	76
ACCGTGC	36	AGCACCA	118	76
ACCGTGG	43	AGCATGC	118	76
ACCGTGT	51	AGCGAGC	118	76
ACCGTTA	36	AGCTGGC	118	76
ACCGTTC	47	AGTGAAG	118	76
ACCGTTG	79	AGTTATA	118	76
ACCGTTT	32	ATCCAAC	118	76
ACCTAAA	65	ATCTTGC	118	76
ACCTAAC	47	ATGCATC	118	76
ACCTAAG	36	ATTATGG	118	76
ACCTAAT	58	ATTCCCT	118	76
ACCTACA	54	CAAAGGA	118	76
ACCTACC	43	CAACATC	118	76
ACCTACG	25	CAAGCTC	118	76
ACCTACT	79	CAATCAC	118	76
ACCTAGA	83	CACCAAG	237	76
ACCTAGC	36	CACGCAC	237	76
ACCTAGG	36	CACTCCA	237	76
ACCTAGT	51	CAGCCCA	118	76
ACCTATA	101	CATCAAG	118	76
ACCTATC	36	CCACGCA	355	76
ACCTATG	65	CCACGTA	118	76
ACCTATT	83	CCAGCCG	118	76
ACCTCAA	69	CCCATCA	118	76
ACCTCAC	47	CCCTTTG	118	76
ACCTCAG	47	CCGACCG	118	76
ACCTCAT	61	CCGCCGT	118	76
ACCTCCA	54	CCTAAAT	118	76
ACCTCCC	79	CCTACCA	237	76
ACCTCCG	25	CCTCACC	118	76
ACCTCCT	79	CCTTTGA	118	76
ACCTCGA	32	CGCGCGG	118	76
ACCTCGC	54	CGGCGGC	237	76
ACCTCGG	43	CGGTTTC	118	76
ACCTCGT	29	CGTCCTC	237	76
ACCTCTA	29	CTAAATC	118	76
ACCTCTC	51	CTACCAA	237	76
ACCTCTG	51	CTCCATG	118	76
ACCTCTT	76	CTGCACC	237	76
ACCTGAA	40	CTGTCCA	118	76

ACCTGAC	36	GAAAAAC	118	76
ACCTGAG	22	GA ACTAT	118	76
ACCTGAT	47	GACTGCA	118	76
ACCTGCA	61	GAGCCAT	118	76
ACCTGCC	29	GATCAAA	118	76
ACCTGCG	40	GATCTCC	118	76
ACCTGCT	47	GCAGCAT	118	76
ACCTGGA	43	GCCACAC	118	76
ACCTGGC	25	GCGCCCG	237	76
ACCTGGG	14	GCTAACT	118	76
ACCTGGT	22	GCTCAAA	237	76
ACCTGTA	61	GCTGCTA	237	76
ACCTGTC	18	GCTGGCT	237	76
ACCTGTG	40	GGAGGGG	237	76
ACCTGTT	32	GGCCCAA	118	76
ACCTTAA	32	GGCGGCA	118	76
ACCTTAC	22	GGTGGAG	118	76
ACCTTAG	18	GTAGCTA	118	76
ACCTTAT	69	GTGAAGC	118	76
ACCTTCA	87	GTGCAAG	118	76
ACCTTCC	54	GTGTTGA	118	76
ACCTTCG	69	GTGTTTC	237	76
ACCTTCT	65	TAACAAC	118	76
ACCTTGA	54	TACCAAG	118	76
ACCTTGC	29	TACCCAA	118	76
ACCTTGG	29	TAGCTGC	118	76
ACCTTGT	36	TATCCCT	237	76
ACCTTTA	58	TATTCTG	118	76
ACCTTTC	61	TCAAGTT	237	76
ACCTTTG	133	TCCAACG	118	76
ACCTTTT	112	TCCAGAA	118	76
ACGAAAA	105	TCGATCG	118	76
ACGAAAC	61	TCGTCTT	237	76
ACGAAAG	58	TCGTTTC	118	76
ACGAAAT	61	TGACCTA	118	76
ACGAACA	51	TGATAAT	118	76
ACGAACC	40	TGCCTGT	118	76
ACGAACG	18	TGGTGTG	118	76
ACGAACT	32	TGTGTAG	118	76
ACGAAGA	40	TGTTACA	118	76
ACGAAGC	54	T TACTTT	237	76
ACGAAGG	43	TTGGAGC	237	76
ACGAAGT	11	TTTTTCG	118	76
ACGAATA	18	AACTGTT	237	72
ACGAATC	18	AAGCACC	118	72
ACGAATG	14	AAGCAGA	118	72
ACGAATT	36	ACCCATC	237	72
ACGACAA	112	ACTCACT	237	72
ACGACAC	54	ACTGCAA	118	72
ACGACAG	51	ACTTCTC	118	72
ACGACAT	43	ACTTTAG	118	72
ACGACCA	36	AGCAGCG	237	72

ACGACCC	32	AGCCCAT	118	72
ACGACCG	36	AGCTACA	118	72
ACGACCT	47	AGCTGCT	118	72
ACGACGA	76	ATAACCA	118	72
ACGACGC	61	ATACTCC	118	72
ACGACGG	65	ATACTTT	118	72
ACGACGT	32	ATCACCG	118	72
ACGACTA	32	ATCGATT	118	72
ACGACTC	54	ATGCAGC	118	72
ACGACTG	40	ATGGTTA	118	72
ACGACTT	43	ATTCAAG	118	72
ACGAGAA	65	CAAAGG	118	72
ACGAGAC	47	CAAATAC	118	72
ACGAGAG	43	CAACGGT	118	72
ACGAGAT	40	CAAGTTG	118	72
ACGAGCA	61	CAATACA	118	72
ACGAGCC	54	CACAAAT	118	72
ACGAGCG	18	CACATGG	118	72
ACGAGCT	65	CACCCTC	118	72
ACGAGGA	47	CACCTAT	118	72
ACGAGGC	18	CAGCCCC	118	72
ACGAGGG	43	CATAGAT	237	72
ACGAGGT	29	CATATAG	118	72
ACGAGTA	47	CATCGCC	118	72
ACGAGTC	36	CATGCCC	118	72
ACGAGTG	32	CCAAGCT	118	72
ACGAGTT	40	CCACACA	118	72
ACGATAA	40	CCATCGA	237	72
ACGATAA	40	CCCCGTT	118	72
ACGATAC	29	CCGGCGG	118	72
ACGATAG	22	CCGGGCC	118	72
ACGATCA	18	CCGGTTT	118	72
ACGATCC	32	CCGTCCT	118	72
ACGATCG	25	CCTATCA	118	72
ACGATCT	40	CGACCGT	118	72
ACGATGA	65	CGCAAAA	118	72
ACGATGC	14	CGCCCCT	237	72
ACGATGG	25	CGCGCCG	118	72
ACGATGT	25	CGCTCCT	237	72
ACGATTA	43	CGGCCGT	118	72
ACGATTC	18	CGGGCCA	118	72
ACGATTG	22	CGGGCGG	118	72
ACGATTT	29	CGTCCCC	118	72
ACGCAAA	47	CGTGGCG	118	72
ACGCAAC	58	CTCAAAC	118	72
ACGCAAG	29	CTCACAC	118	72
ACGCAAT	25	CTCGCCA	118	72
ACGCACA	32	CTCGTTT	118	72
ACGCACC	32	CTTCACA	118	72
ACGCACG	97	CTTCTAT	118	72
ACGCACT	14	CTTTAGC	118	72
ACGCAGA	58	GAAAGGA	118	72

ACGCAGC	40	GAACAAC	118	72
ACGCAGG	11	GATACAT	118	72
ACGCAGT	14	GATCTCA	118	72
ACGCATA	22	GCAAAAC	118	72
ACGCATC	29	GCAAGTA	355	72
ACGCATG	65	GCATGGG	118	72
ACGCATT	29	GCCAAAC	118	72
ACGCCAA	25	GCCACGT	118	72
ACGCCAC	47	GCCCACG	237	72
ACGCCAG	29	GCCGCAG	237	72
ACGCCAT	36	GCGGAGC	118	72
ACGCCCA	40	GCGGTGG	118	72
ACGCCCC	61	GCTACTA	355	72
ACGCCCG	25	GCTAGAT	118	72
ACGCCCT	51	GCTTTGG	118	72
ACGCCGA	32	GGAGTTT	118	72
ACGCCGC	40	GGCCAC	118	72
ACGCCGG	43	GGCTTTT	118	72
ACGCCGT	32	GGGAGGG	118	72
ACGCCTA	18	GGGCCAC	118	72
ACGCCTC	32	GGTCCCT	118	72
ACGCCTG	40	GGTTGGA	118	72
ACGCCTT	22	GTATATG	118	72
ACGCGAA	14	GTGGCGG	118	72
ACGCGAC	36	GTGGTGT	118	72
ACGCGAG	22	GTTATCT	118	72
ACGCGAT	25	TAAGTAT	118	72
ACGCGCA	18	TACAGAA	118	72
ACGCGCC	61	TACATAC	118	72
ACGCGCG	54	TACTTTG	118	72
ACGCGCT	25	TATTTGC	118	72
ACGCGGA	18	TCACATC	118	72
ACGCGGC	22	TCCACAA	118	72
ACGCGGG	40	TCCACAA	118	72
ACGCGGT	22	TCCATGC	237	72
ACGCGTA	22	TCCCAAC	118	72
ACGCGTC	40	TCGCCGT	118	72
ACGCGTG	22	TCGCCTC	118	72
ACGCGTT	18	TCTGCTC	237	72
ACGCTAA	25	TGCCCTC	118	72
ACGCTAC	25	TGCTAAT	118	72
ACGCTAG	29	TGCTGTG	118	72
ACGCTAT	25	TGGAGAA	237	72
ACGCTCA	14	TGTACAC	118	72
ACGCTCC	54	TGTGCCT	118	72
ACGCTCG	40	TGTTCCA	118	72
ACGCTCT	18	TGTTCCC	118	72
ACGCTGA	29	TTAATCA	118	72
ACGCTGA	29	TTAGTAT	118	72
ACGCTGC	22	TTATAAG	118	72
ACGCTGT	36	TTATTGG	118	72
ACGCTTA	43	TTCAACA	118	72

ACGCTTC	32	TTCACCA	118	72
ACGCTTG	43	TTCTCCA	118	72
ACGCTTT	22	TTGAAAG	118	72
ACGGAAA	36	TTGTGGT	118	72
ACGGAAC	11	AAATCCC	118	69
ACGGAAG	18	AAATGTC	118	69
ACGGAAT	25	AACACTT	118	69
ACGGACA	43	AACTCAC	118	69
ACGGACC	22	AAGCTTC	118	69
ACGGACG	61	AATACTC	118	69
ACGGACT	14	AATCTCC	118	69
ACGGAGA	47	AATTGCT	118	69
ACGGAGC	69	ACAAAGG	118	69
ACGGAGG	65	ACCGATC	118	69
ACGGAGT	32	ACTATAA	118	69
ACGGATA	36	ACTCACC	118	69
ACGGATC	51	AGAGATC	118	69
ACGGATG	40	AGCCTAG	118	69
ACGGATT	29	AGCGAAG	118	69
ACGGCAA	40	AGGATGA	118	69
ACGGCAC	40	AGGCCAC	118	69
ACGGCAG	43	AGGGAGT	118	69
ACGGCAT	22	AGGGGGG	118	69
ACGGCCA	65	AGGGTGA	118	69
ACGGCCC	47	AGTAGCA	118	69
ACGGCCG	43	ATAAGCA	355	69
ACGGCCT	40	ATCAAGT	118	69
ACGGCGA	32	ATCCCCA	118	69
ACGGCGC	40	ATGCACC	118	69
ACGGCGG	47	ATGCCTC	118	69
ACGGCGT	32	ATGCGTG	118	69
ACGGCTA	47	ATGGAAG	118	69
ACGGCTC	54	ATGGTGA	237	69
ACGGCTG	47	CAAGCCT	118	69
ACGGCTT	11	CAAGGCC	118	69
ACGGGAA	11	CAATGAT	118	69
ACGGGAC	29	CACAATA	118	69
ACGGGAG	22	CACACCG	118	69
ACGGGAT	54	CAGTGCA	118	69
ACGGGCA	36	CATAGTA	118	69
ACGGGCC	83	CCAAGTG	118	69
ACGGGCG	18	CCACACT	118	69
ACGGGCT	69	CCACCCA	118	69
ACGGGGA	40	CCATTTT	118	69
ACGGGGC	36	CCCATTT	118	69
ACGGGGG	7	CCCCCCT	118	69
ACGGGGT	29	CCCGTCC	118	69
ACGGGTA	22	CCGCCAC	118	69
ACGGGTC	11	CCTAACC	118	69
ACGGGTG	36	CGAAAAA	118	69
ACGGGTT	43	CGAAACC	118	69
ACGGTAA	25	CGTTTTT	118	69

ACGGTAC	18	CTACCAT	237	69
ACGGTAG	11	CTAGCTC	118	69
ACGGTAT	18	CTCCAAG	118	69
ACGGTCA	54	CTTCACC	118	69
ACGGTCC	148	GAAAGCT	118	69
ACGGTCG	58	GAAATCA	118	69
ACGGTCT	54	GACAAGA	118	69
ACGGTGA	36	GAGAGCT	118	69
ACGGTGC	51	GAGCTGG	118	69
ACGGTGG	69	GAGTAGA	118	69
ACGGTGT	32	GATCTTC	118	69
ACGGTTA	25	GATGAAT	118	69
ACGGTTC	22	GATTGGT	118	69
ACGGTTG	29	GCACCAA	237	69
ACGGTTT	72	GCATATG	118	69
ACGTAAA	36	GCCCTGC	118	69
ACGTAAAC	22	GCGGCCC	237	69
ACGTAAAG	11	GGAAGCC	118	69
ACGTAAT	36	GGCAAGA	118	69
ACGTACA	47	GGCCCAT	118	69
ACGTACC	51	GGGCAAG	118	69
ACGTACG	101	GGGCTAG	118	69
ACGTAAT	58	GGGTTTG	118	69
ACGTAGA	51	GGTCGCC	118	69
ACGTAGC	22	GGTGCTT	118	69
ACGTAGG	14	GGTTTGA	118	69
ACGTAGT	36	GTCACAC	118	69
ACGTATA	54	GTCTGCT	237	69
ACGTATC	14	GTCTTTC	118	69
ACGTATG	25	GTGACCA	118	69
ACGTATT	14	GTGCTTA	118	69
ACGTCAA	40	GTGGGGG	118	69
ACGTCAC	43	GTGTCAC	118	69
ACGTCAG	32	TAGCAAC	118	69
ACGTCAT	32	TAGGCTT	118	69
ACGTCCA	32	TATAAGC	237	69
ACGTCCC	22	TATCATG	118	69
ACGTCCG	36	TATGGTC	118	69
ACGTCCT	22	TCAAGAG	118	69
ACGTCGA	58	TCAAGCT	118	69
ACGTCGC	18	TCACACA	237	69
ACGTCGG	25	TCACCAG	118	69
ACGTCGT	36	TCACCGC	118	69
ACGTCTA	18	TCCCCGT	118	69
ACGTCTC	58	TCCGAGC	118	69
ACGTCTG	11	TCCTTAG	118	69
ACGTCTT	25	TCTCAAC	118	69
ACGTGAA	32	TCTGATT	118	69
ACGTGAA	32	TGAACCC	118	69
ACGTGAG	29	TGACCAT	118	69
ACGTGAT	47	TGCAGTT	118	69
ACGTGCA	76	TGGGATT	118	69

ACGTGCC	47	TGGGTTT	118	69
ACGTGCG	47	TGGTTAG	118	69
ACGTGCT	51	TGTCAGC	237	69
ACGTGGA	79	TGTCCTT	118	69
ACGTGGC	76	TTAATAC	118	69
ACGTGGG	40	TTATCCA	473	69
ACGTGGT	36	TTGTGCC	118	69
ACGTGTA	43	TTGTTAC	237	69
ACGTGTC	40	TTTCTGC	118	69
ACGTGTG	43	AAAGCCC	118	65
ACGTGTT	25	AAATAGC	118	65
ACGTTAA	18	AACCCAT	118	65
ACGTTAC	14	AAGTTGG	237	65
ACGTTAG	11	AAGTTTC	118	65
ACGTTAT	22	AATATGC	118	65
ACGTTCA	36	AATCTAT	118	65
ACGTTCC	22	AATGATC	118	65
ACGTTCG	40	AATGTCA	118	65
ACGTTCT	25	ACAATCA	237	65
ACGTTGA	22	ACAATGA	118	65
ACGTTGC	40	ACCACTC	118	65
ACGTTGG	29	ACCTTCT	118	65
ACGTTGT	25	ACGGCCA	237	65
ACGTTTA	25	ACTGCTG	118	65
ACGTTTC	18	AGAGCAG	355	65
ACGTTTG	29	AGAGCAT	118	65
ACGTTTT	65	AGAGGCC	118	65
ACTAAAA	166	AGATAGT	118	65
ACTAAAC	94	AGCAAGT	237	65
ACTAAAG	72	AGCTCAA	118	65
ACTAAAT	123	AGCTCGT	118	65
ACTAACA	65	AGCTGCC	118	65
ACTAACC	79	AGGACGA	118	65
ACTAACG	36	AGGTGGA	118	65
ACTAACT	51	AGTATTA	118	65
ACTAAGA	29	AGTTCTT	118	65
ACTAAGC	51	ATACAGT	118	65
ACTAAGG	36	ATCCTAA	118	65
ACTAAGT	51	ATCCTAG	118	65
ACTAATA	87	ATGCAAG	118	65
ACTAATC	51	ATGGGCT	118	65
ACTAATG	47	CAAAGAG	237	65
ACTAATT	112	CACACAG	118	65
ACTACAA	54	CACACTC	237	65
ACTACAC	43	CACAGAA	118	65
ACTACAG	47	CACATAA	118	65
ACTACAT	94	CACGGGC	118	65
ACTACCA	61	CAGATAA	118	65
ACTACCC	43	CAGCATC	118	65
ACTACCG	18	CAGCTGC	118	65
ACTACCT	47	CATCTGC	118	65
ACTACGA	43	CCAATCG	118	65

ACTACGC	14	CCCACAC	118	65
ACTACGG	14	CCCCCGC	118	65
ACTACGT	11	CCCTACC	237	65
ACTACTA	90	CCTCACA	118	65
ACTACTC	76	CCTCCGT	237	65
ACTACTG	65	CCTTTCG	118	65
ACTACTT	61	CGACGGC	118	65
ACTAGAA	69	CGAGTCC	118	65
ACTAGAC	47	CGATTTG	118	65
ACTAGAG	69	CGCCGCG	118	65
ACTAGAT	72	CGCTCTC	118	65
ACTAGCA	87	CGGCTAT	118	65
ACTAGCC	36	CGTCGCG	118	65
ACTAGCG	22	CTAATTG	118	65
ACTAGCT	94	CTACATT	118	65
ACTAGGA	47	CTCAAGA	118	65
ACTAGGC	54	CTCACCG	118	65
ACTAGGG	25	CTCATAA	118	65
ACTAGGT	43	CTCTCGT	118	65
ACTAGTA	61	CTGCCCC	118	65
ACTAGTC	51	CTGCTAA	118	65
ACTAGTG	58	CTGTAAA	118	65
ACTAGTT	119	CTGTACA	237	65
ACTATAA	69	CTTCAA	118	65
ACTATAC	54	GAAGCGA	118	65
ACTATAG	72	GAAGTGG	118	65
ACTATAT	112	GACAAAG	237	65
ACTATCA	40	GACACCT	118	65
ACTATCC	32	GAGACAA	118	65
ACTATCG	18	GAGATCC	118	65
ACTATCT	58	GCAAGTT	118	65
ACTATGA	61	GCAGCGC	118	65
ACTATGC	47	GCATCCT	118	65
ACTATGG	54	GCCAGCA	118	65
ACTATGT	61	GCCGTCC	118	65
ACTATTA	69	GCCTTGT	118	65
ACTATTC	65	GCTAATT	355	65
ACTATTG	65	GCTAGTT	118	65
ACTATTT	144	GCTCAGC	118	65
ACTCAAA	101	GCTCGTT	237	65
ACTCAAC	58	GCTTCTA	118	65
ACTCAAG	58	GCTTGCG	118	65
ACTCAAT	40	GCTTTTA	118	65
ACTCACA	32	GGACGAC	118	65
ACTCACA	32	GGCCAAT	118	65
ACTCACC	69	GGCGGCC	118	65
ACTCACT	72	GGGGAAG	118	65
ACTCAGA	51	GGTGTGG	118	65
ACTCAGC	43	GGTTTAT	118	65
ACTCAGG	22	GGTTTGC	118	65
ACTCAGT	29	GTCGCCT	118	65
ACTCATA	112	GTGTGGT	118	65

ACTCATC	87	TAAGGTG	118	65
ACTCATG	76	TAGCCTC	118	65
ACTCATT	76	TAGTACT	118	65
ACTCCAA	94	TCAAAGC	118	65
ACTCCAC	54	TCAGCAA	118	65
ACTCCAG	43	TCAGCTT	118	65
ACTCCAT	76	TCATAAT	118	65
ACTCCCA	32	TCCACCC	118	65
ACTCCCC	61	TCCATTG	118	65
ACTCCCG	36	TCCAAT	118	65
ACTCCCT	40	TCCCTAC	118	65
ACTCCGA	58	TCCTGCA	118	65
ACTCCGC	36	TCGAGAG	118	65
ACTCCGG	25	TCGCCAC	237	65
ACTCCGT	40	TCGTCCC	118	65
ACTCCTA	87	TCTAAGG	118	65
ACTCCTC	87	TCTCACC	118	65
ACTCCTG	29	TCTGATC	118	65
ACTCCTT	87	TGAAAGG	118	65
ACTCGAA	40	TGAATGA	118	65
ACTCGAC	36	TGAGTTG	118	65
ACTCGAG	32	TGATGGA	118	65
ACTCGAT	54	TGCCGTG	118	65
ACTCGCA	14	TGCGGCT	118	65
ACTCGCC	61	TGTATTG	118	65
ACTCGCG	36	TTCAGAA	118	65
ACTCGCT	58	TTCCACT	237	65
ACTCGGA	43	TTCTATG	118	65
ACTCGGC	69	TTCTGAG	118	65
ACTCGGG	18	TTTTCGG	118	65
ACTCGGT	22	AAAATCG	237	61
ACTCGTA	14	AAAGGCA	118	61
ACTCGTC	29	AACAGTG	118	61
ACTCGTG	40	AAGATAG	118	61
ACTCGTT	47	AAGCTCA	237	61
ACTCTAA	69	AAGTGGG	118	61
ACTCTAC	54	AAGTTAT	118	61
ACTCTAG	40	AATCACC	118	61
ACTCTAT	83	AATCTGT	118	61
ACTCTCA	54	ACAGCAC	118	61
ACTCTCC	72	ACAGCTT	118	61
ACTCTCG	32	ACCAAGC	118	61
ACTCTCT	112	ACCCACC	118	61
ACTCTGA	61	ACCTCAT	118	61
ACTCTGC	40	ACCTGCA	118	61
ACTCTGG	29	ACGACGC	118	61
ACTCTGT	51	ACTACCA	118	61
ACTCTTA	61	ACTAGTA	118	61
ACTCTTC	87	ACTCCCC	237	61
ACTCTTG	76	AGAAGTT	118	61
ACTCTTT	76	AGCAGCT	118	61
ACTGAAA	90	AGCAGTG	118	61

ACTGAAC	25	AGCATAA	118	61
ACTGAAG	40	AGCCTTG	118	61
ACTGAAT	76	AGCGATC	118	61
ACTGACA	51	AGCTAAC	118	61
ACTGACC	29	AGGCTTT	118	61
ACTGACG	14	AGGGGCA	118	61
ACTGACT	54	AGGTCTT	118	61
ACTGAGA	40	AGTCACA	118	61
ACTGAGC	22	ATACCTA	237	61
ACTGAGG	29	ATATCCA	118	61
ACTGAGT	43	ATCCACC	118	61
ACTGATA	40	ATGTTCC	118	61
ACTGATC	47	CACAACC	118	61
ACTGATG	83	CACCGCT	118	61
ACTGATT	43	CACCTGC	118	61
ACTGCAA	72	CACTTGA	118	61
ACTGCAC	58	CATAAAC	237	61
ACTGCAG	18	CATATGC	118	61
ACTGCAT	108	CATGATC	118	61
ACTGCCA	61	CCAACTA	118	61
ACTGCCC	43	CCAATCA	118	61
ACTGCCG	36	CCAATCT	118	61
ACTGCCT	36	CCAATGA	118	61
ACTGCGA	14	CCACTCC	118	61
ACTGCGC	18	CCAGCTG	237	61
ACTGCGG	29	CCAGGCA	118	61
ACTGCGT	40	CCCAACT	237	61
ACTGCTA	58	CCCACGC	118	61
ACTGCTC	90	CCCGTCG	118	61
ACTGCTG	65	CCGCACC	118	61
ACTGCTT	51	CCGTCCA	118	61
ACTGGAA	54	CCTAGCC	118	61
ACTGGAC	47	CCTATTA	118	61
ACTGGAG	40	CCTGCAA	118	61
ACTGGAT	47	CCTGCGC	118	61
ACTGGCA	36	CCTTCAC	118	61
ACTGGCC	43	CCTTGCC	118	61
ACTGGCG	25	CGAAAGA	118	61
ACTGGCT	32	CGACCCG	118	61
ACTGGGA	22	CGAGCCG	237	61
ACTGGGC	32	CGCACCC	118	61
ACTGGGG	11	CGCCGCA	118	61
ACTGGGT	18	CGGAGCC	237	61
ACTGGTA	43	CGTCTTT	118	61
ACTGGTC	40	CGTGCAA	118	61
ACTGGTG	58	CTAGATG	118	61
ACTGGTT	54	CTATCAC	118	61
ACTGTAA	76	CTATCCA	118	61
ACTGTAC	58	CTATGTT	237	61
ACTGTAG	58	CTCCGCT	237	61
ACTGTAT	47	CTCGACT	118	61
ACTGTCA	47	CTCTCGC	237	61

ACTGTCC	108	CTCTCTG	237	61
ACTGTCCG	22	CTCTGTC	118	61
ACTGTCT	58	CTGCAAA	118	61
ACTGTGA	51	CTGCTTC	118	61
ACTGTGC	40	CTGTGCT	118	61
ACTGTGG	22	CTTCCAG	118	61
ACTGTGT	65	CTTGTGA	118	61
ACTGTTA	61	GAACAAT	118	61
ACTGTTC	79	GAAGCCT	118	61
ACTGTTG	43	GAATCTA	118	61
ACTGTTT	69	GACAATA	118	61
ACTTAAA	105	GACATAA	118	61
ACTTAAC	65	GACTGCT	118	61
ACTTAAG	40	GAGTTGC	118	61
ACTTAAT	76	GATCCTA	118	61
ACTTACA	36	GATGGGC	118	61
ACTTACC	25	GCAATGC	118	61
ACTTACG	11	GCACACG	118	61
ACTTACT	25	GCACCCA	118	61
ACTTAGA	76	GCATAGA	118	61
ACTTAGC	32	GCCCTTT	118	61
ACTTAGG	32	GCCTGTG	118	61
ACTTAGT	40	GCGCGCT	118	61
ACTTATA	101	GCTGCTC	118	61
ACTTATA	101	GCTGGTG	118	61
ACTTATG	43	GCTGTGC	118	61
ACTTATT	115	GCTTATA	237	61
ACTTCAA	94	GCTTCGT	118	61
ACTTCAC	32	GCTTGTG	118	61
ACTTCAG	29	GGATCCC	118	61
ACTTCAT	61	GGATTGT	118	61
ACTTCCA	83	GGCAGCC	118	61
ACTTCCC	43	GGCTAGG	118	61
ACTTCCG	32	GGCTCCC	118	61
ACTTCCT	76	GGGAAGC	118	61
ACTTCGA	22	GGGACAC	118	61
ACTTCGC	14	GGGGCCC	118	61
ACTTCGG	29	GGGTCGG	118	61
ACTTCGT	18	GGGTGAG	118	61
ACTTCTA	87	GGTGAC	118	61
ACTTCTC	72	GTACATT	118	61
ACTTCTG	47	GTGCTTT	118	61
ACTTCTT	97	GTTTACT	118	61
ACTTGAA	47	TAATACC	118	61
ACTTGAC	32	TACAAGC	118	61
ACTTGAG	65	TACAGTA	118	61
ACTTGAT	58	TACTGCT	118	61
ACTTGCA	108	TAGTAAG	118	61
ACTTGCC	29	TATTATC	118	61
ACTTGCG	25	TCCATTA	118	61
ACTTGCT	79	TCCCTGT	118	61
ACTTGGA	119	TCCGCC	237	61

ACTTGGC	61	TCGCTCC	118	61
ACTTGGG	43	TCGTGGA	118	61
ACTTGGT	83	TCGTTTG	118	61
ACTTGTA	108	TCTTAGA	118	61
ACTTGTC	54	TCTTCAG	118	61
ACTTGTG	101	TGAGATA	118	61
ACTTGTT	144	TGCAAGG	118	61
ACTTTAA	58	TGCTAGT	118	61
ACTTTAC	72	TGGACAT	118	61
ACTTTAG	72	TGGCGGC	237	61
ACTTTAT	115	TGGGCTT	118	61
ACTTTCA	69	TGGGGTT	118	61
ACTTTCC	22	TGTGTAA	118	61
ACTTTCCG	14	TGTTACT	118	61
ACTTTCT	115	TTAATGG	118	61
ACTTTGA	94	TTAGTGG	118	61
ACTTTGC	76	TTATCCC	118	61
ACTTTGG	58	TTCCCAT	237	61
ACTTTGT	101	TTCCCTG	118	61
ACTTTTA	101	TTCTGGT	118	61
ACTTTTC	126	TTGCCGC	355	61
ACTTTTG	94	AAACGAA	237	58
ACTTTTT	155	AACAGTC	118	58
AGAAAAA	357	AACTGCT	237	58
AGAAAAC	141	AAGAGTG	118	58
AGAAAAG	177	AAGCCAG	118	58
AGAAAAT	173	AAGCCTC	118	58
AGAAACA	152	AAGCGAG	118	58
AGAAACC	72	AAGGATC	118	58
AGAAACG	29	AAGGCAA	118	58
AGAAACT	112	AATACCT	237	58
AGAAAGA	130	ACCCCCC	237	58
AGAAAGC	105	ACCCTCC	118	58
AGAAAGG	112	ACTGCAC	118	58
AGAAAGT	61	ACTGCTA	118	58
AGAAATA	137	ACTGGTG	118	58
AGAAATC	76	AGACAAT	118	58
AGAAATG	123	AGACATA	118	58
AGAAATT	137	AGACTCC	118	58
AGAACAA	94	AGCCGAG	118	58
AGAACAC	51	AGCTACT	237	58
AGAACAG	40	AGGAACC	118	58
AGAACAT	76	AGTCCAC	118	58
AGAACCA	32	AGTTTCC	118	58
AGAACCC	43	ATAACGA	118	58
AGAACCG	65	ATCAAGG	118	58
AGAACCT	51	CAACCTC	118	58
AGAACGA	43	CAACGCA	118	58
AGAACGC	11	CAACTTA	118	58
AGAACGG	25	CACCCAT	118	58
AGAACGT	25	CACGCAA	118	58
AGAACTA	94	CACTGCA	237	58

AGAACTC	47	CACTTGC	118	58
AGAACTG	25	CAGACAC	118	58
AGAACTT	58	CAGACCG	118	58
AGAAGAA	242	CAGATAT	118	58
AGAAGAC	79	CAGCGAC	118	58
AGAAGAG	130	CAGGCTG	237	58
AGAAGAT	105	CATATTG	118	58
AGAAGCA	101	CCACACG	118	58
AGAAGCC	51	CCATCCG	118	58
AGAAGCG	25	CCCACGT	237	58
AGAAGCT	76	CCGACGG	118	58
AGAAGGA	87	CCGCAGC	118	58
AGAAGGC	40	CCGCCAG	118	58
AGAAGGG	58	CCGTCGC	355	58
AGAAGGT	47	CCGTCGT	118	58
AGAAGTA	65	CCGTCTC	118	58
AGAAGTC	69	CCTCACG	118	58
AGAAGTG	72	CCTCCGC	355	58
AGAAGTT	61	CCTCTCG	118	58
AGAATAA	123	CCTGTCG	118	58
AGAATAC	54	CGAAGAT	237	58
AGAATAG	40	CGCCTCT	118	58
AGAATAT	101	CGTCTCC	118	58
AGAATCA	83	CGTGGCA	118	58
AGAATCC	47	CGTGTAT	237	58
AGAATCG	14	CGTGTCA	237	58
AGAATCT	61	CTAAGGT	118	58
AGAATGA	51	CTAGCCT	118	58
AGAATGC	47	CTAGTAA	118	58
AGAATGG	72	CTAGTAG	118	58
AGAATGT	61	CTAGTCA	118	58
AGAATTA	101	CTCCGGC	118	58
AGAATTC	65	CTGCAAC	118	58
AGAATTG	58	CTGCGGC	118	58
AGAATTT	108	CTGGTGG	118	58
AGACAAA	94	CTGTTGA	118	58
AGACAAA	94	CTGTTGA	118	58
AGACAAG	40	CTTCCGT	118	58
AGACAAT	58	GAAACTA	237	58
AGACACA	58	GACGGCC	118	58
AGACACC	87	GACTCCA	118	58
AGACACG	32	GACTTCA	118	58
AGACACT	14	GAGAGTC	118	58
AGACAGA	43	GAGGCC	118	58
AGACAGC	43	GAGGCTG	118	58
AGACAGG	25	GAGTGAA	118	58
AGACAGT	47	GATTACA	118	58
AGACATA	58	GCAAGCC	473	58
AGACATC	58	GCCCATC	118	58
AGACATG	83	GCCCTAA	118	58
AGACATT	79	GCCGTCTG	237	58
AGACCAA	90	GCCTCCC	118	58

AGACCAC	65	GCCTTTC	118	58
AGACCAG	22	GCGAAAA	118	58
AGACCAT	47	GCGGCTG	118	58
AGACCCA	61	GCTGTCC	118	58
AGACCCC	32	GGATCTT	118	58
AGACCCG	32	GGCGGGC	118	58
AGACCCT	32	GGGATTC	118	58
AGACCGA	25	GGGGGGC	118	58
AGACCGC	54	GTAGCCA	118	58
AGACCGG	36	GTATTTG	118	58
AGACCGT	29	GTCAATA	118	58
AGACCTA	22	GTCACCG	118	58
AGACCTC	32	GTCACCT	118	58
AGACCTG	14	GTCCAAC	118	58
AGACCTT	65	GTCGAGG	118	58
AGACGAA	83	GTGTAGC	118	58
AGACGAC	112	GTTAAAG	118	58
AGACGAG	47	GTTATAG	118	58
AGACGAT	36	TAAAGCG	237	58
AGACGCA	40	TAACCAA	118	58
AGACGCC	40	TAATGGT	237	58
AGACGCG	11	TACTCCA	237	58
AGACGCT	25	TAGAGCC	118	58
AGACGGA	40	TATACAG	118	58
AGACGGC	43	TATCACC	118	58
AGACGGG	40	TATGCTA	237	58
AGACGGT	36	TCAAACG	118	58
AGACGTA	29	TCACACC	118	58
AGACGTC	22	TCATTGT	118	58
AGACGTG	29	TCCAACT	118	58
AGACGTT	25	TCCACAC	118	58
AGACTAA	76	TCCATAG	118	58
AGACTAC	43	TCTGAGA	118	58
AGACTAG	58	TCTGGTG	118	58
AGACTAT	65	TGCTGTA	118	58
AGACTCA	32	TGCTTCG	118	58
AGACTCC	58	TGTA CTC	118	58
AGACTCG	18	TGTTGGG	118	58
AGACTCT	51	TTAGCAC	118	58
AGACTGA	40	TTCCACA	118	58
AGACTGC	29	TTGCTGT	118	58
AGACTGG	40	TTTGGGA	118	58
AGACTGT	40	AACCTAG	118	54
AGACTTA	36	AACTATC	118	54
AGACTTC	51	AACTCCC	118	54
AGACTTG	58	AACTTGC	118	54
AGACTTT	65	AAGTTCT	118	54
AGAGAAA	191	AATGAGA	118	54
AGAGAAC	76	AATGCTG	118	54
AGAGAAG	130	ACAAAGC	118	54
AGAGAAT	83	ACAAGCT	118	54
AGAGACA	51	ACACTCC	237	54

AGAGACC	58	ACAGTAC	118	54
AGAGACG	14	ACAGTGT	118	54
AGAGACT	51	ACATTAT	118	54
AGAGAGA	289	ACGAAGC	118	54
AGAGAGC	94	ACGAGCC	237	54
AGAGAGG	133	AGATAAG	118	54
AGAGAGT	87	AGCAGAG	118	54
AGAGATA	94	AGCTCAC	118	54
AGAGATC	69	AGCTTCC	118	54
AGAGATG	94	AGGCAAC	118	54
AGAGATT	108	AGGGTCT	118	54
AGAGCAA	112	AGTAAGT	118	54
AGAGCAC	40	AGTACTC	118	54
AGAGCAG	65	AGTGAGC	118	54
AGAGCAT	65	ATAGATC	118	54
AGAGCCA	101	ATCAACG	118	54
AGAGCCA	101	ATCATTG	118	54
AGAGCCC	58	ATCCCTC	237	54
AGAGCCG	29	ATCCTAC	237	54
AGAGCGA	76	ATCGAGA	118	54
AGAGCGC	43	ATGCTGG	118	54
AGAGCGG	54	ATTCTGT	237	54
AGAGCGT	22	CAAGATC	237	54
AGAGCTA	79	CAATCGG	118	54
AGAGCTC	105	CAATGCT	118	54
AGAGCTG	43	CACGCCC	118	54
AGAGCTT	54	CACGTCC	118	54
AGAGGAA	177	CACGTGG	355	54
AGAGGAC	51	CAGATCA	118	54
AGAGGAG	115	CAGCACT	118	54
AGAGGAT	87	CAGGGTG	118	54
AGAGGCA	51	CATTTCC	118	54
AGAGGCC	65	CCAATTA	118	54
AGAGGCG	25	CCACAGA	118	54
AGAGGCT	47	CCACTCA	118	54
AGAGGGA	90	CCAGAAG	118	54
AGAGGGC	79	CCAGCTA	118	54
AGAGGGG	112	CCAGGCT	237	54
AGAGGGT	79	CCAGGTC	118	54
AGAGGTA	36	CCATTGC	118	54
AGAGGTC	54	CCCACCG	118	54
AGAGGTG	101	CCCCACT	118	54
AGAGGTT	51	CCCCCGG	118	54
AGAGTAA	79	CCCTAAA	118	54
AGAGTAC	32	CCGCCAT	118	54
AGAGTAG	65	CCGCCCA	237	54
AGAGTAT	51	CCGTGTC	118	54
AGAGTCA	40	CCTCGCT	118	54
AGAGTCC	40	CCTTAGC	118	54
AGAGTCG	51	CGAGCTG	118	54
AGAGTCT	51	CGATCCT	118	54
AGAGTGA	69	CGCCATT	118	54

AGAGTGC	36	CGCCGAT	118	54
AGAGTGG	32	CGCCTCA	118	54
AGAGTGT	123	CGCGACC	237	54
AGAGTTA	32	CGGAGAG	118	54
AGAGTTC	43	CGGAGGG	118	54
AGAGTTG	54	CGGCAGC	118	54
AGAGTTT	83	CGGCCTT	118	54
AGATAAA	101	CTACTAT	118	54
AGATAAC	58	CTCCGTC	237	54
AGATAAG	54	CTGAGAT	118	54
AGATAAT	94	CTGCGCC	118	54
AGATACA	51	CTGCTAG	118	54
AGATACC	25	CTGCTCG	118	54
AGATACG	32	CTGGAAG	118	54
AGATACT	76	CTGTATT	118	54
AGATAGA	97	CTGTTCC	118	54
AGATAGC	54	GAACCCA	118	54
AGATAGG	32	GAATATG	118	54
AGATAGT	65	GACTAAT	118	54
AGATATA	126	GAGAACT	118	54
AGATATC	61	GAGTCCA	118	54
AGATATG	112	GATAGAT	118	54
AGATATT	94	GCAAGAT	118	54
AGATCAA	94	GCACGCC	118	54
AGATCAC	32	GCCGAGA	118	54
AGATCAG	14	GCCTAGG	118	54
AGATCAT	83	GCCTCTG	118	54
AGATCCA	87	GCGAAGA	118	54
AGATCCC	43	GCGAAGA	118	54
AGATCCG	36	GCGACCC	118	54
AGATCCT	83	GCGGAGA	118	54
AGATCGA	51	GCGGCCGA	118	54
AGATCGC	18	GCGGGCC	118	54
AGATCGG	22	GCGTACG	118	54
AGATCGT	29	GCGTCGA	118	54
AGATCTA	79	GCGTCGA	118	54
AGATCTC	79	GCTCGAC	118	54
AGATCTG	32	GGAACCA	118	54
AGATCTT	72	GGACCAG	118	54
AGATGAA	119	GGACTTC	118	54
AGATGAC	54	GGATACA	118	54
AGATGAG	69	GGCCAGG	118	54
AGATGAT	61	GGCCCCA	118	54
AGATGCA	87	GGCCCCC	118	54
AGATGCC	83	GGCTCAA	118	54
AGATGCG	36	GGGAAAG	118	54
AGATGCT	51	GGGAGTT	118	54
AGATGGA	108	GGGCGCC	118	54
AGATGGC	69	GGGGGTC	118	54
AGATGGG	47	GGGGTCG	237	54
AGATGGT	47	GGGGTTT	118	54
AGATGTA	58	GGGTTGG	118	54

AGATGTC	61	GGTAGCT	118	54
AGATGTG	79	GGTGGAT	237	54
AGATGTT	101	GTACCCC	118	54
AGATTAA	87	GTAGAAT	118	54
AGATTAC	76	GTAGCAG	118	54
AGATTAG	43	GTCCATG	118	54
AGATTAT	101	GTGTA CT	118	54
AGATTCA	72	GTGTGCT	118	54
AGATTCC	51	GTTAGTA	118	54
AGATTCCG	47	GTTCTGT	118	54
AGATTCT	79	GTTTACA	118	54
AGATTGA	58	GTTTCCC	237	54
AGATTGC	29	TAAGCAC	237	54
AGATTGG	51	TAATTGG	118	54
AGATTGT	65	TACATTA	118	54
AGATTTA	97	TAGCCAG	118	54
AGATTT C	87	TATCCAA	118	54
AGATTTG	115	TATCCAC	118	54
AGATTTT	148	TATGTAC	237	54
AGCAAAA	159	TCGGCGG	118	54
AGCAAAC	105	TCTCGCT	118	54
AGCAAAG	115	TCTGCAC	118	54
AGCAAAT	115	TGAAAGC	118	54
AGCAACA	101	TGCGTTT	118	54
AGCAACC	51	TGGTGGA	473	54
AGCAACG	51	TGTTTCG	118	54
AGCAACT	79	TTCGCCG	118	54
AGCAAGA	108	TTCGTCT	118	54
AGCAAGC	115	TTCTGCT	118	54
AGCAAGG	90	TTGGTCC	118	54
AGCAAGT	65	TTTCCCG	118	54
AGCAATA	76	TTTCGCT	118	54
AGCAATC	115	AAACTGC	118	51
AGCAATG	43	AAATCGA	118	51
AGCAATT	58	AACAGAC	118	51
AGCACAA	105	AACCACG	118	51
AGCACAC	87	AACGAGG	118	51
AGCACAG	47	AAGCTAC	118	51
AGCACAT	65	AATAAGC	118	51
AGCACCA	76	AATGCCT	118	51
AGCACCC	32	ACACTTG	118	51
AGCACCG	72	ACCAAGG	118	51
AGCACCT	51	ACCAAGT	118	51
AGCACGA	58	ACCAGTG	118	51
AGCACGC	61	ACCGGGG	118	51
AGCACGG	40	ACCTCTC	118	51
AGCACGT	40	ACGAACA	118	51
AGCACTA	47	ACGTACC	118	51
AGCACTA	47	ACTCTGT	118	51
AGCACTC	43	AGAAGCC	118	51
AGCACTT	47	AGAGACT	118	51
AGCAGAA	36	AGAGTCG	118	51

AGCAGAC	54	AGATCGA	118	51
AGCAGAG	54	AGCAACG	118	51
AGCAGAT	79	AGCCATA	118	51
AGCAGCA	180	AGCTTGA	118	51
AGCAGCC	65	AGGCCCC	118	51
AGCAGCG	72	AGTTATG	118	51
AGCAGCT	61	AGTTGGA	118	51
AGCAGGA	47	AGTTTAC	118	51
AGCAGGC	83	AGTTTGG	118	51
AGCAGGG	32	ATCGATG	118	51
AGCAGGT	18	ATCGCCG	118	51
AGCAGTA	58	ATTGGAT	237	51
AGCAGTC	65	ATTTGGG	118	51
AGCAGTG	61	CAAACCG	118	51
AGCAGTT	14	CAACCGA	237	51
AGCATAA	61	CACACGA	237	51
AGCATAC	79	CACCACG	237	51
AGCATAG	40	CACTCTG	118	51
AGCATAT	90	CAGATGA	118	51
AGCATCA	76	CAGCTTG	237	51
AGCATCC	43	CATGCGT	118	51
AGCATCG	36	CATTATC	118	51
AGCATCT	61	CATTATG	118	51
AGCATGA	61	CCACAAC	118	51
AGCATGC	76	CCACGAC	118	51
AGCATGG	61	CCATCGT	118	51
AGCATGT	54	CCCAATT	118	51
AGCATA	51	CCCACAG	118	51
AGCATT	61	CCCAGGC	237	51
AGCATTG	54	CCCGGTT	118	51
AGCATTT	87	CCCTCGC	237	51
AGCCAAA	119	CCGCGCA	118	51
AGCCAAC	97	CCGTGTG	118	51
AGCCAAG	108	CGAAGCC	118	51
AGCCAAT	87	CGACCCA	118	51
AGCCACA	90	CGCAACC	118	51
AGCCACC	87	CGCAGCC	118	51
AGCCACG	54	CGCATCC	118	51
AGCCACT	61	CGCCCTG	118	51
AGCCAGA	61	CGCGCGT	118	51
AGCCAGC	144	CGGCCCC	473	51
AGCCAGG	51	CGTCGAG	237	51
AGCCAGT	47	CGTTTCC	118	51
AGCCATA	51	CTCCTTA	237	51
AGCCATC	65	CTGAGAG	118	51
AGCCATG	65	CTGATCT	118	51
AGCCATT	65	CTGCGCG	118	51
AGCCCAA	105	CTGGACC	118	51
AGCCCAC	61	CTGTTCCG	118	51
AGCCCAG	65	CTTCAGA	118	51
AGCCCAT	72	CTTCCGG	118	51
AGCCCCA	65	CTTCGCC	118	51

AGCCCC	54	CTTGAAC	118	51
AGCCCCG	40	CTTGGTC	118	51
AGCCCCT	54	GAAACCC	118	51
AGCCCGA	54	GAGAACA	237	51
AGCCCGC	65	GAGACTA	118	51
AGCCCGG	40	GAGCCTA	118	51
AGCCCGT	40	GAGGGTC	118	51
AGCCCTA	51	GAGTGTG	237	51
AGCCCTC	76	GATCTTA	118	51
AGCCCTG	58	GATGGAA	118	51
AGCCCTT	47	GATTCTC	118	51
AGCCGAA	36	GCAACTG	118	51
AGCCGAC	22	GCAATTT	118	51
AGCCGAG	58	GCAGAGC	118	51
AGCCGAT	32	GCAGCCC	237	51
AGCCGCA	87	GCAGCTG	118	51
AGCCGCC	65	GCAGGAC	118	51
AGCCGCG	47	GCATCAA	118	51
AGCCGCT	36	GCCAATC	118	51
AGCCGGA	40	GCCCCTT	118	51
AGCCGGC	36	GCCGAGC	118	51
AGCCGGG	22	GCCGCAA	118	51
AGCCGGT	54	GCCTAAA	118	51
AGCCGTA	29	GCCTCAG	118	51
AGCCGTC	43	GCGGGGG	118	51
AGCCGTG	65	GCGTCAC	118	51
AGCCGTT	51	GCTCTCG	118	51
AGCCTAA	54	GGATGAT	118	51
AGCCTAC	54	GGATTAC	118	51
AGCCTAG	69	GGATTCC	118	51
AGCCTAT	83	GGCATT A	118	51
AGCCTCA	76	GGCCTTT	237	51
AGCCTCA	76	GGCGTCA	118	51
AGCCTCG	40	GGCGTCG	118	51
AGCCTCT	47	GGCTCGA	118	51
AGCCTGA	22	GGGCTTT	118	51
AGCCTGC	40	GGGGGCA	118	51
AGCCTGG	51	GGGGGGT	118	51
AGCCTGT	18	GGGGTAA	118	51
AGCCTTA	25	GGGTTTA	118	51
AGCCTTC	69	GGTTAGA	118	51
AGCCTTG	61	GTAAAGG	118	51
AGCCTTT	79	GTA CTCC	118	51
AGCGAAA	65	GTCCTTC	118	51
AGCGAAC	32	GTCGGCG	118	51
AGCGAAG	69	GTCTGGT	118	51
AGCGAAT	40	GTGCCTC	118	51
AGCGACA	61	GTGGACA	118	51
AGCGACC	29	GTGGACC	118	51
AGCGACG	32	GTGGATT	237	51
AGCGACT	58	GTGGGGC	118	51
AGCGAGA	40	GTTAGCA	118	51

AGCGAGC	76	GTTTGTC	118	51
AGCGAGG	36	TAACGAG	237	51
AGCGAGT	47	TAAGTAC	118	51
AGCGATA	7	TACCATC	237	51
AGCGATC	61	TACCCCC	118	51
AGCGATG	36	TACCTAT	118	51
AGCGATT	32	TACGTAG	118	51
AGCGCAA	32	TAGATCA	118	51
AGCGCAC	4	TAGCACG	118	51
AGCGCAG	47	TAGGTCT	118	51
AGCGCAT	29	TAGTCAC	118	51
AGCGCCA	51	TATCCAG	118	51
AGCGCCC	25	TATGGCC	118	51
AGCGCCG	36	TCACAAT	118	51
AGCGCCT	25	TCATTAG	118	51
AGCGCGA	22	TCCCTCG	118	51
AGCGCGC	40	TCGATTG	118	51
AGCGCGG	25	TCGTCAC	237	51
AGCGCGT	14	TCTCAGA	237	51
AGCGCTA	29	TCTGCTA	118	51
AGCGCTC	14	TGACAGT	118	51
AGCGCTG	43	TGACTGC	118	51
AGCGCTT	29	TGCATCC	118	51
AGCGGAA	22	TGCGCGT	118	51
AGCGGAC	40	TGCTGAC	118	51
AGCGGAG	69	TGGCCTT	118	51
AGCGGAT	47	TGGGCTA	118	51
AGCGGCA	58	TGGGGGC	118	51
AGCGGCC	51	TTACTAC	118	51
AGCGGCG	22	TTATGGC	118	51
AGCGGCT	25	TTGCGCG	118	51
AGCGGGA	25	TTGGGAT	118	51
AGCGGGA	25	TTTAACC	118	51
AGCGGGC	32	AACGCAA	118	47
AGCGGGG	29	AAGCACT	118	47
AGCGGTA	25	AAGCTGC	118	47
AGCGGTC	47	AATATCC	237	47
AGCGGTG	29	AATCGAT	118	47
AGCGGTT	22	AATGCGT	118	47
AGCGTAA	22	ACACACT	118	47
AGCGTAC	7	ACAGACA	118	47
AGCGTAG	7	ACCTAAC	118	47
AGCGTAT	25	ACGCAA	118	47
AGCGTCA	32	ACTGGAC	118	47
AGCGTCC	18	ACTTGAA	118	47
AGCGTCG	36	AGATGGG	118	47
AGCGTCT	14	AGCAGGA	118	47
AGCGTGA	22	AGCCAGT	118	47
AGCGTGC	29	AGCCGCG	118	47
AGCGTGG	47	AGGCTGT	355	47
AGCGTGT	51	AGTCGTC	118	47
AGCGTTA	18	AGTGTGT	118	47

AGCGTTC	11	ATAATGG	118	47
AGCGTTG	18	ATACGTA	118	47
AGCGTTT	65	ATAGTAG	118	47
AGCTAAA	162	ATATCCC	355	47
AGCTAAC	61	ATATCGG	118	47
AGCTAAG	51	ATCCGCC	118	47
AGCTAAT	87	ATCGAAC	118	47
AGCTACA	72	ATCGAAT	118	47
AGCTACC	58	ATCGGCC	118	47
AGCTACG	29	ATCTGCA	118	47
AGCTACT	58	ATGACTG	118	47
AGCTAGA	69	ATGGTCA	118	47
AGCTAGC	195	CAACGAG	118	47
AGCTAGG	76	CAAGTAG	118	47
AGCTAGT	115	CACCGAA	118	47
AGCTATA	141	CACGCGA	237	47
AGCTATC	54	CACTCCC	237	47
AGCTATG	83	CAGCCGT	118	47
AGCTATT	90	CAGGCAA	118	47
AGCTCAA	65	CAGGGAG	118	47
AGCTCAC	54	CAGGTAA	118	47
AGCTCAG	83	CAGTGAG	118	47
AGCTCAT	94	CAGTGGC	118	47
AGCTCCA	105	CAGTTGG	118	47
AGCTCCC	69	CATCACG	118	47
AGCTCCG	29	CATGGGT	118	47
AGCTCCT	65	CCACGTG	237	47
AGCTCGA	65	CCAGTGA	118	47
AGCTCGC	40	CCATCGG	118	47
AGCTCGG	54	CCGATCT	118	47
AGCTCGT	65	CCGCAAC	118	47
AGCTCTA	47	CCGCCTG	118	47
AGCTCTC	72	CCTTCGC	118	47
AGCTCTG	43	CGAGGCC	118	47
AGCTCTT	83	CGCCACG	237	47
AGCTGAA	76	CGGCACG	118	47
AGCTGAC	43	CGGCTAG	118	47
AGCTGAG	51	CGGGGGG	118	47
AGCTGAT	43	CTACTCT	118	47
AGCTGCA	65	CTACTGC	118	47
AGCTGCC	65	CTAGGTC	118	47
AGCTGCG	43	CTCAACG	118	47
AGCTGCT	72	CTCGCTT	118	47
AGCTGGA	25	CTGACTG	118	47
AGCTGGC	76	CTGATTG	118	47
AGCTGGG	51	GACTION	118	47
AGCTGGT	36	GAGCTTG	118	47
AGCTGTA	43	GAGGGGC	118	47
AGCTGTC	51	GATCTGA	118	47
AGCTGTG	36	GATGTAC	118	47
AGCTGTT	36	GCAACCT	118	47
AGCTTAA	76	GCAATCC	118	47

AGCTTAC	25	GCACTGC	237	47
AGCTTAG	25	GCAGATG	118	47
AGCTTAT	25	GCAGTGG	118	47
AGCTTCA	43	GCAGTTG	118	47
AGCTTCC	54	GCCAGGC	118	47
AGCTTCG	47	GCGGCAT	118	47
AGCTTCT	112	GCGTGCC	118	47
AGCTTGA	51	GCGTGTA	118	47
AGCTTGC	65	GCTACGT	118	47
AGCTTGG	32	GCTATGT	118	47
AGCTTGT	94	GCTGCCC	118	47
AGCTTTA	58	GCTGGCC	118	47
AGCTTTC	94	GCTTCCA	118	47
AGCTTTG	112	GCTTCCG	237	47
AGCTTTT	126	GGAAGCT	118	47
AGGAAAA	144	GGACATG	118	47
AGGAAAC	79	GGATCCG	118	47
AGGAAAG	101	GGCCCAG	118	47
AGGAAAT	90	GGCCCCG	237	47
AGGAACA	54	GGCCCTT	118	47
AGGAACC	58	GGCGCCC	118	47
AGGAACG	40	GGCGGCT	118	47
AGGAACT	65	GGCTACT	237	47
AGGAAGA	152	GGCTAGA	118	47
AGGAAGC	58	GGCTCGC	118	47
AGGAAGG	69	GGCTCTA	118	47
AGGAAGT	51	GGGGCGC	118	47
AGGAATA	40	GGGGGCG	118	47
AGGAATC	58	GGTCGGA	118	47
AGGAATG	47	GTAAGTA	118	47
AGGAATT	47	GTATTGA	118	47
AGGACAA	65	GTCACAA	237	47
AGGACAC	32	GTCATTA	118	47
AGGACAG	18	GTTAAAC	118	47
AGGACAT	40	GTTGCCG	118	47
AGGACCA	47	TAACATG	118	47
AGGACCC	36	TAACGTG	118	47
AGGACCG	14	TACAGAC	118	47
AGGACCT	43	TACCTAA	118	47
AGGACGA	65	TACGTGT	118	47
AGGACGC	22	TAGTGGC	118	47
AGGACGG	47	TCAGGTA	118	47
AGGACGT	40	TCCCGCC	118	47
AGGACTA	47	TCCCGTC	118	47
AGGACTA	47	TCGACTG	118	47
AGGACTC	36	TCGCAAG	118	47
AGGACTG	29	TCGTTAT	237	47
AGGAGAA	97	TCTGGTT	118	47
AGGAGAC	58	TGAAGCT	118	47
AGGAGAG	115	TGCAATT	118	47
AGGAGAT	47	TGCGCAG	118	47
AGGAGCA	72	TGCGGAG	355	47

AGGAGCC	69	TGCGTCC	118	47
AGGAGCG	25	TGGAGCC	118	47
AGGAGCT	79	TGGCCGC	118	47
AGGAGGA	162	TGGCTCG	237	47
AGGAGGC	65	TGGGGCC	118	47
AGGAGGG	51	TGGTCTT	118	47
AGGAGGT	40	TGTGCTG	118	47
AGGAGTA	97	TTAGAAG	118	47
AGGAGTC	40	TTCAGCC	118	47
AGGAGTG	61	TTGCACG	118	47
AGGAGTT	72	TTGGGTA	118	47
AGGATAA	61	TTTCGCA	118	47
AGGATAC	47	AAAGCTG	118	43
AGGATAG	47	AACCGAC	118	43
AGGATAT	51	AACGTGT	118	43
AGGATCA	54	AAGCCCC	118	43
AGGATCC	43	AAGGCC	118	43
AGGATCG	36	AAGTAGC	118	43
AGGATCT	29	AATCACA	118	43
AGGATGA	69	ACAATGC	118	43
AGGATGC	43	ACACCGT	118	43
AGGATGG	36	ACACGAG	237	43
AGGATGT	40	ACACTGC	118	43
AGGATTA	54	ACATCGA	118	43
AGGATTC	51	ACTCCAG	118	43
AGGATTG	97	ACTGTTG	118	43
AGGATTT	54	AGCACTC	118	43
AGGCAAA	65	AGCCGTC	118	43
AGGCAAC	54	AGCTGCG	118	43
AGGCAAG	69	AGGATCC	118	43
AGGCAAT	18	AGGGCCC	118	43
AGGCACA	54	AGGTGGG	118	43
AGGCACC	25	AGTACTG	118	43
AGGCACG	43	ATAGACC	118	43
AGGCACT	47	ATCTCCT	118	43
AGGCAGA	29	ATGCGTC	118	43
AGGCAGC	87	ATGCTAA	118	43
AGGCAGG	61	ATTCAGC	118	43
AGGCAGT	18	ATTGTGC	118	43
AGGCATA	36	CAACACT	118	43
AGGCATC	79	CAAGTGT	118	43
AGGCATG	69	CACTCTT	118	43
AGGCATT	43	CAGGTGG	118	43
AGGCCAA	69	CATCCGC	118	43
AGGCCAC	69	CCACGAA	118	43
AGGCCAG	32	CCCCGCA	118	43
AGGCCAT	65	CCCTAGA	118	43
AGGCCCA	36	CCCTGTA	118	43
AGGCCCC	51	CCGGGGG	118	43
AGGCCCG	22	CCGGTCT	118	43
AGGCCCT	47	CCGTCAC	118	43
AGGCCGA	47	CCTCGAC	118	43

AGGCCGC	32	CCTCTAT	118	43
AGGCCGG	79	CCTGCAT	118	43
AGGCCGT	7	CGACTGC	118	43
AGGCCTA	51	CGAGAGC	118	43
AGGCCTC	32	CGATCTG	118	43
AGGCCTG	36	CGCCCGT	118	43
AGGCCTT	47	CGTCCAA	118	43
AGGCGAA	36	CTAACCC	118	43
AGGCGAC	36	CTCCCTA	118	43
AGGCGAG	58	CTGAGGC	118	43
AGGCGAT	25	CTGGCCT	118	43
AGGCGCA	29	CTGTGCC	118	43
AGGCGCC	40	CTTAGAA	118	43
AGGCGCG	69	CTTATGC	118	43
AGGCGCT	25	CTTCACG	118	43
AGGCGGA	29	GACATGC	118	43
AGGCGGC	72	GACCATC	118	43
AGGCGGG	29	GACCCAT	118	43
AGGCGGT	40	GACCGAT	118	43
AGGCGTA	14	GAGAGAC	237	43
AGGCGTC	32	GAGATAC	118	43
AGGCGTG	29	GAGCCGA	118	43
AGGCGTT	14	GAGTGGG	118	43
AGGCTAA	54	GATAAGC	118	43
AGGCTAC	43	GATCACA	118	43
AGGCTAG	47	GCACGTG	118	43
AGGCTAT	54	GCAGATC	118	43
AGGCTCA	32	GCCCCGG	118	43
AGGCTCA	32	GCCGCGG	118	43
AGGCTCC	58	GCGCAA	118	43
AGGCTCT	43	GCGCCGG	118	43
AGGCTGA	58	GCGGCTA	118	43
AGGCTGC	40	GCGTCCT	118	43
AGGCTGG	43	GCTGCGC	118	43
AGGCTGT	47	GGCACTG	118	43
AGGCTTA	51	GGGCTGG	118	43
AGGCTTC	29	GGTCAAA	118	43
AGGCTTG	54	GGTGGAC	237	43
AGGCTTT	61	GTACAAT	118	43
AGGGA	94	GTCAGCT	118	43
AGGGAAC	40	GTCCACA	118	43
AGGGAAG	76	GTCCCCG	118	43
AGGGAAT	40	GTCCCTC	118	43
AGGGACA	47	GTCGCGC	118	43
AGGGACC	58	GTCGCTA	118	43
AGGGACG	51	GTCGTTT	118	43
AGGGACT	54	GTCTGCA	118	43
AGGGAGA	90	GTGCCGT	118	43
AGGGAGC	58	GTGCTCG	118	43
AGGGAGG	61	GTTACTT	118	43
AGGGAGT	69	GTTAGTG	118	43
AGGGATA	36	GTTCCCC	118	43

AGGGATC	32	TAACTGG	118	43
AGGGATG	29	TACAGCT	118	43
AGGGATT	32	TAGACCC	118	43
AGGGCAA	79	TAGGGGT	118	43
AGGGCAC	36	TATACGT	118	43
AGGGCAG	43	TCACCGG	237	43
AGGGCAT	79	TCAGAGC	118	43
AGGGCCA	29	TCAGCGA	118	43
AGGGCCC	43	TCCAGGT	118	43
AGGGCCG	61	TCCCCAG	118	43
AGGGCCT	51	TCCGGCG	118	43
AGGGCGA	47	TCCGGGT	118	43
AGGGCGC	40	TCGAATG	118	43
AGGGCGG	32	TCGAGGC	118	43
AGGGCGT	32	TCGCTTG	118	43
AGGGCTA	36	TCGGAGC	118	43
AGGGCTC	54	TGCCACA	118	43
AGGGCTG	43	TGCGCCC	118	43
AGGGCTT	43	TGCGGTT	118	43
AGGGGAA	54	TGCTCGA	118	43
AGGGGAC	36	TGGCAGG	118	43
AGGGGAG	83	TTCACAC	118	43
AGGGGAT	61	TTCAGT	118	43
AGGGGCA	61	TTCGCTC	118	43
AGGGGCC	51	TTGCGTT	118	43
AGGGGCG	47	TTTGCTG	118	43
AGGGGCT	18	AATAGAC	118	40
AGGGGGA	105	AATCCCC	118	40
AGGGGGC	47	ACAACCG	118	40
AGGGGGG	69	ACAGTTA	118	40
AGGGGGT	40	ACGGCCT	118	40
AGGGGTA	40	ACGTGGG	118	40
AGGGGTC	47	ACGTGTC	118	40
AGGGGTG	22	ACTCGAA	118	40
AGGGGTT	65	ACTGAGA	118	40
AGGGTAA	43	AGACAAG	118	40
AGGGTAC	36	AGAGCAC	118	40
AGGGTAG	36	AGCACGT	118	40
AGGGTAT	43	AGCCCCG	237	40
AGGGTCA	47	AGCCTCG	118	40
AGGGTCC	29	AGCGCGC	118	40
AGGGTCG	22	AGGAATA	118	40
AGGGTCT	54	AGGGGTA	118	40
AGGGTGA	69	AGTTGCG	118	40
AGGGTGC	40	ATGCCTG	118	40
AGGGTGG	29	ATGGCGG	118	40
AGGGTGT	51	ATTGGTC	118	40
AGGGTTA	29	ATTTGCG	118	40
AGGGTTC	32	CAACTGT	118	40
AGGGTTG	58	CAAGCCG	118	40
AGGGTTT	54	CACAATG	118	40
AGGTAAA	90	CACGACC	118	40

AGGTAAC	11	CACTCAC	118	40
AGGTAAG	40	CACTGCG	118	40
AGGTAAT	47	CAGAGCA	118	40
AGGTACA	32	CAGTTAT	118	40
AGGTACC	36	CATCGAA	355	40
AGGTACG	43	CCAGAGC	118	40
AGGTACT	29	CCAGTCG	118	40
AGGTAGA	51	CCCAGCA	118	40
AGGTAGC	25	CCCCGGT	237	40
AGGTAGG	43	CCCGCAA	118	40
AGGTAGT	25	CCCGCCA	118	40
AGGTATA	47	CCGATGC	118	40
AGGTATC	32	CCGCTAC	118	40
AGGTATG	54	CCGTCGA	118	40
AGGTATT	40	CCTCAGG	118	40
AGGTCAA	40	CCTGTAC	118	40
AGGTCAC	51	CCTTCTA	118	40
AGGTCAG	40	CGAGCGG	118	40
AGGTCAT	43	CGCATCA	118	40
AGGTCCA	43	CGCCCGA	118	40
AGGTCCC	58	CGCGCAA	118	40
AGGTCCG	54	CGGCGAC	118	40
AGGTCCT	40	CGGCGGG	118	40
AGGTCEA	43	CGGCTAC	118	40
AGGTCEG	51	CGGCTCT	118	40
AGGTCEG	32	CGGGGTC	118	40
AGGTCEG	51	CGTCACA	237	40
AGGTCTA	18	CGTTGGT	118	40
AGGTCTC	54	CTAATAC	118	40
AGGTCTG	25	CTCGTTA	237	40
AGGTCTT	61	CTGACCT	118	40
AGGTGAA	87	CTTGCCG	118	40
AGGTGAC	51	GAACACC	118	40
AGGTGAG	69	GAAGCTT	118	40
AGGTGAT	36	GACCACA	118	40
AGGTGCA	47	GACCAGC	118	40
AGGTGCC	32	GACCTAA	118	40
AGGTGCG	29	GAGCCGC	118	40
AGGTGCT	36	GCAGGGA	118	40
AGGTGGA	65	GCATCGC	118	40
AGGTGGC	40	GCCAATG	118	40
AGGTGGG	43	GCCCAGG	237	40
AGGTGGT	115	GCCCCGC	118	40
AGGTGTA	76	GCCCGTC	118	40
AGGTGTC	43	GCCGTGT	118	40
AGGTGTG	29	GCCTGTC	118	40
AGGTGTT	43	GCGTCTT	118	40
AGGTTAA	43	GCTATCA	118	40
AGGTTAC	25	GCTCATA	118	40
AGGTTAG	32	GCTCTAC	118	40
AGGTTAT	43	GCTGCCA	118	40
AGGTTCA	43	GCTTGAA	118	40

AGGTTCC	32	GGATCTC	118	40
AGGTTCCG	58	GGCAGGG	237	40
AGGTTCT	65	GGCATCG	118	40
AGGTTGA	43	GGGCTCC	118	40
AGGTTGC	47	GGGGCAA	118	40
AGGTTGG	72	GGGTCTC	118	40
AGGTTGT	61	GGTTTCG	237	40
AGGTTTA	58	GTAGAAG	118	40
AGGTTTA	58	GTCGGAG	118	40
AGGTTTG	69	GTCTAGT	118	40
AGGTTTT	83	GTCTCAA	118	40
AGTAAAA	115	GTGCCCA	118	40
AGTAAAC	32	GTGCTGA	118	40
AGTAAAG	76	GTGGCAG	118	40
AGTAAAT	115	GTGTCAG	118	40
AGTAACA	58	GTTCCAC	118	40
AGTAACC	7	GTTGCGG	118	40
AGTAACG	32	GTTTCGT	237	40
AGTAACT	40	TACAATC	118	40
AGTAAGA	54	TACCTAG	118	40
AGTAAGC	25	TCCACTA	118	40
AGTAAGG	43	TCCAGTC	118	40
AGTAAGT	54	TCCGTCC	237	40
AGTAATA	94	TCCGTGT	237	40
AGTAATC	43	TCCTAAC	118	40
AGTAATG	32	TCGAAGA	118	40
AGTAATT	76	TCGGCCC	118	40
AGTACAA	51	TCGTTAG	118	40
AGTACAC	47	TCGTTGG	118	40
AGTACAG	47	TCTGCGG	118	40
AGTACAT	58	TCTGTCA	118	40
AGTACCA	65	TGAGTGT	118	40
AGTACCC	36	TGGCAAT	118	40
AGTACCG	4	TGGCTAC	118	40
AGTACCT	40	TGTCCGC	118	40
AGTACGA	22	TGTGCCC	118	40
AGTACGC	22	TGTTCGA	118	40
AGTACGG	11	TTCCGGC	237	40
AGTACGT	40	AAATCGC	118	36
AGTACTA	65	AACATCG	118	36
AGTACTC	54	AACTGGT	118	36
AGTACTG	43	AAGACTC	118	36
AGTACTT	47	AAGATCG	118	36
AGTAGAA	83	AAGCCGC	118	36
AGTAGAC	43	AAGTGTC	118	36
AGTAGAG	58	AATGGTG	237	36
AGTAGAT	61	ACAGTGC	118	36
AGTAGCA	69	ACCACGC	237	36
AGTAGCC	32	ACCATCG	118	36
AGTAGCG	18	ACCCATT	118	36
AGTAGCT	61	ACCTAGC	118	36
AGTAGGA	61	ACCTATC	118	36

AGTAGGC	47	ACGACCA	118	36
AGTAGGG	61	ACGAGTC	118	36
AGTAGGT	40	ACGCGAC	237	36
AGTAGTA	76	ACGTAGT	118	36
AGTAGTC	14	ACGTCCG	118	36
AGTAGTG	72	ACGTGGT	118	36
AGTAGTT	54	ACTCCGC	118	36
AGTATAA	112	AGGCCCA	118	36
AGTATAC	36	AGGTGCT	118	36
AGTATAG	58	AGTCGCC	118	36
AGTATAT	108	ATCGATA	118	36
AGTATCA	61	ATGCTGT	118	36
AGTATCC	32	CAATGAG	118	36
AGTATCG	11	CACGAGG	118	36
AGTATCT	43	CAGCTAC	118	36
AGTATGA	43	CATATCG	118	36
AGTATGC	29	CATCGGG	118	36
AGTATGG	36	CCAGGTG	118	36
AGTATGT	83	CCCGGGA	118	36
AGTATTA	65	CCCGGTC	118	36
AGTATTC	61	CCGCGGG	118	36
AGTATTG	32	CCGCTCT	118	36
AGTATTT	133	CCGGGGA	118	36
AGTCAAA	94	CCGGGTT	118	36
AGTCAAA	94	CGCAAAC	118	36
AGTCAAC	36	CGCCCTA	118	36
AGTCAAT	47	CGCCCTA	118	36
AGTCACA	61	CGCCGAG	118	36
AGTCACC	36	CGCCTGT	118	36
AGTCACG	7	CGCGCTT	118	36
AGTCACT	36	CGCGGGG	118	36
AGTCAGA	32	CGCTTAT	118	36
AGTCAGC	40	CGCTTGC	118	36
AGTCAGG	22	CGGAAGC	118	36
AGTCAGT	72	CGGATTC	118	36
AGTCATA	65	CGGGGAA	118	36
AGTCATC	43	CGGGGGT	118	36
AGTCATG	51	CGTTATC	118	36
AGTCATT	69	CTAGTTC	118	36
AGTCCAA	94	CTCAGAG	118	36
AGTCCAC	58	CTCAGCA	118	36
AGTCCAG	40	CTCATCG	118	36
AGTCCAT	54	CTCCAGT	118	36
AGTCCCA	40	CTCGACC	118	36
AGTCCCC	29	CTCGTCA	118	36
AGTCCCG	11	CTCTACC	118	36
AGTCCCT	54	CTGAACA	118	36
AGTCCGA	36	CTGAGTT	118	36
AGTCCGC	40	CTGGCTC	237	36
AGTCCGG	87	CTGTCAG	118	36
AGTCCGT	18	CTTTCGC	118	36
AGTCCTA	32	GACCCGG	118	36

AGTCCTC	36	GACGAAC	118	36
AGTCCTG	14	GACGAAT	118	36
AGTCCTT	43	GA CTCCG	118	36
AGTCGAA	22	GA CTGAG	118	36
AGTCGAC	36	GAGCGAT	118	36
AGTCGAG	29	GAGCGGT	237	36
AGTCGAT	43	GCCCCC	118	36
AGTCGCA	18	GCGGTTG	118	36
AGTCGCC	36	GCTACTG	118	36
AGTCGCG	11	GCTACC	118	36
AGTCGCT	29	GGACTGA	118	36
AGTCGGA	25	GGCACGC	118	36
AGTCGGC	51	GGCCCTC	118	36
AGTCGGG	11	GGCGTCT	118	36
AGTCGGT	36	GGGCCCT	237	36
AGTCGTA	22	GGGCTCA	118	36
AGTCGTC	47	GGGGCTC	118	36
AGTCGTG	18	GGTCTCG	118	36
AGTCGTT	51	GGTCTTC	118	36
AGTCTAA	40	GTAAAAG	237	36
AGTCTAC	51	GTA CTG	118	36
AGTCTAG	40	GTATAAC	118	36
AGTCTAT	87	GTTCGAA	118	36
AGTCTCA	36	TAAAGGA	118	36
AGTCTCC	22	TAAAGGA	118	36
AGTCTCG	36	TAGAAGC	118	36
AGTCTCT	97	TAGATGG	118	36
AGTCTGA	36	TCAAGGC	118	36
AGTCTGC	40	TCACGTG	118	36
AGTCTGG	25	TCAGATA	118	36
AGTCTGT	54	TCCTACC	118	36
AGTCTTA	47	TCGAACA	118	36
AGTCTTC	51	TCGCCCG	237	36
AGTCTTG	47	TCGCTAA	118	36
AGTCTTT	76	TCGCTCA	118	36
AGTGAAA	61	TCGTACA	118	36
AGTGAAC	36	TCGTCTG	118	36
AGTGAAG	76	TCTGCTT	118	36
AGTGAAT	76	TGCTAAG	118	36
AGTGACA	72	TGCTATC	118	36
AGTGACC	47	TGCTGCG	118	36
AGTGACG	47	TGGACCC	118	36
AGTGACT	47	TGGATCG	118	36
AGTGAGA	79	TGGTCAA	118	36
AGTGAGC	54	TGTCGCT	118	36
AGTGAGG	43	TTAGAAC	118	36
AGTGAGT	65	TTTCCGT	118	36
AGTGATA	54	AACCTCG	118	32
AGTGATC	32	AACGCAT	118	32
AGTGATG	94	AAGCAGT	118	32
AGTGATT	69	AAGGAAC	118	32
AGTGCAA	90	ACAGACG	118	32

AGTGCAC	32	ACCCAGC	118	32
AGTGCAG	61	ACCGTCG	118	32
AGTGCAT	83	ACGCACC	237	32
AGTGCCA	76	ACGCCGA	118	32
AGTGCCC	32	ACGCCTC	118	32
AGTGCCG	25	ACTATCC	118	32
AGTGCCT	43	ACTCCCA	118	32
AGTGCGA	29	AGATACG	118	32
AGTGCGC	25	AGATCAC	118	32
AGTGCGG	47	AGCGGGC	118	32
AGTGCGT	11	AGGCGTC	118	32
AGTGCTA	79	AGTAACG	118	32
AGTGCTC	69	AGTGGCA	118	32
AGTGCTG	43	ATTAGCA	118	32
AGTGCTT	76	CACGAGT	118	32
AGTGGAA	69	CAGCATA	118	32
AGTGGAC	54	CAGGACG	118	32
AGTGGAG	61	CAGGCAT	118	32
AGTGGAT	61	CAGTGTT	118	32
AGTGGCA	32	CCAACCG	118	32
AGTGGCC	43	CCAACTG	118	32
AGTGGCG	22	CCCCAGT	118	32
AGTGGCT	58	CCCTGCG	118	32
AGTGGGA	51	CCGAACG	118	32
AGTGGGC	25	CCGAGAT	118	32
AGTGGGG	51	CCGGCTA	118	32
AGTGGGT	43	CCTAGTA	118	32
AGTGGTA	47	CCTAGTA	118	32
AGTGGTC	51	CGAACGC	118	32
AGTGGTG	105	CGACACC	118	32
AGTGGTT	72	CGACTCC	118	32
AGTGTA	69	CGAGGTG	118	32
AGTGTAC	47	CGCAAGC	118	32
AGTGTAG	51	CGCAATG	118	32
AGTGTAT	40	CGGCACT	118	32
AGTGTCA	69	CGGGGAC	118	32
AGTGTCC	65	CGGTGTA	118	32
AGTGTCCG	32	CGTACCC	118	32
AGTGTCT	72	CGTCTGC	118	32
AGTGTGA	65	CGTGGTT	237	32
AGTGTGC	40	CGTTGAT	118	32
AGTGTGG	54	CTAGTAC	118	32
AGTGTGT	47	CTCACGT	118	32
AGTGTTA	79	CTCCGTG	237	32
AGTGTTT	51	CTGAGGG	118	32
AGTGTTG	105	CTGGTGA	118	32
AGTGTTT	83	GAACAGT	118	32
AGTTAAA	112	GAACGGA	118	32
AGTTAAC	29	GAACGGA	118	32
AGTTAAG	29	GACCAGT	118	32
AGTTAAT	94	GAGATCG	118	32
AGTTACA	22	GAGTCGC	118	32

AGTTACC	29	GATAGTA	118	32
AGTTACG	22	GCACCCT	118	32
AGTTACT	54	GCAGGGT	118	32
AGTTAGA	32	GCCATTC	118	32
AGTTAGA	32	GCCCCGA	118	32
AGTTAGG	54	GCCGCCT	118	32
AGTTAGT	90	GCGACAC	118	32
AGTTATA	76	GCGACAG	118	32
AGTTATC	40	GCGATCG	118	32
AGTTATG	51	GCGGACA	118	32
AGTTATT	61	GCTCCGA	118	32
AGTTCAA	58	GCTGACT	118	32
AGTTCAC	51	GGACCCA	237	32
AGTTCAG	47	GGAGAAC	118	32
AGTTCAT	108	GGATCGA	118	32
AGTTCCA	47	GGCAAAT	118	32
AGTTCCC	11	GGCTCGT	118	32
AGTTCCG	14	GGCTGGT	118	32
AGTTCCT	58	GGCTGTC	355	32
AGTTCGA	29	GGGGACA	118	32
AGTTCGC	36	GGGGCTG	118	32
AGTTCGG	18	GGGTAGC	118	32
AGTTCGT	22	GTACACG	118	32
AGTTCTA	54	GTAGTAA	118	32
AGTTCTC	83	GTCAAGT	118	32
AGTTCTG	11	GTCCAGT	118	32
AGTTCTT	65	GTGGGCT	118	32
AGTTGAA	61	GTTTAAAC	118	32
AGTTGAC	61	GTTTCGC	118	32
AGTTGAG	36	TAACCCC	118	32
AGTTGAT	69	TACGACG	118	32
AGTTGCA	61	TACTCGT	118	32
AGTTGCC	47	TAGGATG	118	32
AGTTGCG	40	TAGTAAC	118	32
AGTTGCT	76	TCAATAC	118	32
AGTTGGA	51	TCCAGTT	237	32
AGTTGGC	61	TCCTCGA	118	32
AGTTGGG	51	TCGAAAC	118	32
AGTTGGT	69	TGAGAAC	118	32
AGTTGTA	94	TGGTTAC	118	32
AGTTGTC	32	TGTCTGA	118	32
AGTTGTG	94	TTCACGC	118	32
AGTTGTT	87	TTCCGTC	118	32
AGTTTAA	112	TTCCGTG	118	32
AGTTTAC	51	TTCGCAA	118	32
AGTTTAG	97	TTCGCCA	118	32
AGTTTAT	112	AACCGCA	118	29
AGTTTCA	72	AAGGTGC	118	29
AGTTTCC	58	ACCACGT	118	29
AGTTTCG	25	ACCGCAC	118	29
AGTTTCT	115	ACCGCTC	118	29
AGTTTGA	112	ACCTCGT	118	29

AGTTTGC	58	ACGAGGT	237	29
AGTTTGG	51	ACGCATC	118	29
AGTTTGT	119	ACTCGTC	118	29
AGTTTTA	123	ACTGACC	118	29
AGTTTTC	51	ACTGAGG	118	29
AGTTTTG	94	ACTGCGG	118	29
AGTTTTT	188	AGACCGT	118	29
ATAAAAA	339	AGCGACC	118	29
ATAAAAC	133	AGCGGTG	237	29
ATAAAAG	137	ATATACG	118	29
ATAAAAT	368	ATCACGA	118	29
ATAAACA	137	ATCCGAC	118	29
ATAAACC	61	ATTTCCG	118	29
ATAAACG	25	CAATACT	118	29
ATAAACT	126	CAGCGCG	118	29
ATAAAGA	97	CAGTACT	118	29
ATAAAGC	133	CAGTTAA	118	29
ATAAAGG	51	CAGTTCT	118	29
ATAAAGT	105	CATCGTC	118	29
ATAAATA	390	CCCCCCG	118	29
ATAAATC	97	CGAACAC	118	29
ATAAATG	191	CGATTGG	118	29
ATAAATT	242	CGCACCA	118	29
ATAACAA	115	CGCACCA	118	29
ATAACAC	76	CGGGTTG	118	29
ATAACAG	40	CGGTTGA	118	29
ATAACAT	108	CGTAGCC	118	29
ATAACCA	72	CGTAGTA	118	29
ATAACCC	36	CGTCACG	118	29
ATAACCG	36	CGTCGAA	118	29
ATAACCT	51	CTACGTG	118	29
ATAACGA	58	CTCAGCG	118	29
ATAACGC	18	CTCAGGT	118	29
ATAACGG	11	CTCCAGG	118	29
ATAACGT	11	CTGTGCG	118	29
ATAACTA	79	GACGCGC	118	29
ATAACTC	61	GA CTGGA	118	29
ATAACTG	51	GAGGCGT	118	29
ATAACTT	65	GCCACGA	118	29
ATAAGAA	101	GCCATAA	118	29
ATAAGAC	43	GCCCTCG	118	29
ATAAGAG	97	GCCGATT	118	29
ATAAGAT	90	GCCGGGG	118	29
ATAAGCA	69	GCGCATC	118	29
ATAAGCC	40	GCGGGCT	118	29
ATAAGCG	18	GGCAATC	118	29
ATAAGCT	69	GGCCGTC	118	29
ATAAGGA	76	GGCGACA	118	29
ATAAGGC	36	GGGTAAT	118	29
ATAAGGG	40	GTAACGA	118	29
ATAAGGT	76	GTCTGAT	118	29
ATAAGTA	94	GTTAGAA	118	29

ATAAGTC	32	TAGATCG	118	29
ATAAGTG	72	TATCCCC	118	29
ATAAGTT	108	TATGCAG	118	29
ATAATAA	249	TCACGGG	118	29
ATAATAC	123	TCAGCCT	118	29
ATAATAG	58	TCAGCGG	118	29
ATAATAT	224	TCATCGA	118	29
ATAATCA	94	TCCTTAC	118	29
ATAATCC	32	TCGGGGA	118	29
ATAATCG	40	TCTACCA	118	29
ATAATCT	137	TGACCAG	118	29
ATAATGA	61	TGACCCA	118	29
ATAATGC	101	TGAGGCT	118	29
ATAATGG	47	TTCGAAG	118	29
ATAATGT	83	TTCGTAA	118	29
ATAATTA	173	TTGCGGG	118	29
ATAATTC	97	AACTGAC	118	25
ATAATTG	115	ACGCCCC	118	25
ATAATTT	209	ACGGTAA	118	25
ATACAAA	133	ACGTGTT	118	25
ATACAAC	65	ACTGAAC	118	25
ATACAAG	79	AGAACGG	118	25
ATACAAT	108	AGAAGCG	118	25
ATACACA	51	AGACCGA	118	25
ATACACA	51	AGTGGGC	118	25
ATACACC	51	ATAGGCT	118	25
ATACACG	32	ATCGGGG	118	25
ATACAGA	58	CAACGCC	118	25
ATACAGC	40	CAACTGA	118	25
ATACAGG	29	CAATGCG	118	25
ATACAGT	65	CACTTAC	118	25
ATACATA	133	CAGCGGG	118	25
ATACATC	61	CAGTCGT	118	25
ATACATG	97	CAGTGTA	118	25
ATACATT	90	CATTAGC	118	25
ATACCAA	123	CCCAGCT	118	25
ATACCAC	36	CCCATCG	355	25
ATACCAG	32	CCGACTC	118	25
ATACCAT	72	CCGGCAC	118	25
ATACCCA	51	CCGTGTA	118	25
ATACCCC	36	CCTGAGT	118	25
ATACCCG	29	CGAAGAC	118	25
ATACCCT	32	CGACCAC	237	25
ATACCGA	22	CGATTCG	118	25
ATACCGC	18	CGCTACG	118	25
ATACCGG	29	CGTACAA	118	25
ATACCGT	18	CGTG TTC	118	25
ATACCTA	61	CGTTAGC	118	25
ATACCTC	54	CGTTAGT	118	25
ATACCTG	32	CTCAGAT	118	25
ATACCTT	65	CTCGTAC	118	25
ATACGAA	43	CTGCGGA	237	25

ATACGAC	25	GATCCCG	118	25
ATACGAG	22	GATCCGG	118	25
ATACGAT	29	GATCGCC	118	25
ATACGCA	18	GATTCGC	118	25
ATACGCC	47	GCATCCG	118	25
ATACGCG	18	GCCTCGA	118	25
ATACGCT	25	GCTGCGG	118	25
ATACGGA	29	GGATTCT	118	25
ATACGGC	7	GGGTCGC	118	25
ATACGGG	7	GGTACT	118	25
ATACGGT	22	GTA CTGG	118	25
ATACGTA	47	GTCGAAA	118	25
ATACGTC	11	GTTGGGT	118	25
ATACGTG	32	TAAGACG	118	25
ATACGTT	18	TAAGCAG	118	25
ATACTAA	94	TCCGCTA	118	25
ATACTAC	54	TCCGTGG	118	25
ATACTAG	54	TCGACCC	118	25
ATACTAT	108	TGGGTAG	118	25
ATACTCA	83	TTACAGC	118	25
ATACTCC	72	TTCCCGC	118	25
ATACTCG	29	TTTACAG	118	25
ATACTCT	36	TTTCGTA	118	25
ATACTGA	58	TTTCGTA	118	25
ATACTGC	22	AAACCGC	118	22
ATACTGG	25	ACATGCG	118	22
ATACTGT	36	AGAGCGT	118	22
ATACTTA	69	ATCGTCG	118	22
ATACTTC	29	ATGACAG	118	22
ATACTTG	87	ATTATCC	118	22
ATACTTT	72	ATTCGCC	118	22
ATAGAAA	170	CACGAAG	118	22
ATAGAAC	36	CACGGTA	118	22
ATAGAAG	76	CATTGTG	118	22
ATAGAAT	105	CCCGGGC	118	22
ATAGACA	51	CCGATTC	118	22
ATAGACC	43	CCGCAGA	118	22
ATAGACG	43	CCGGGAT	118	22
ATAGACT	51	CCTCGTA	118	22
ATAGAGA	123	CGCAGAT	118	22
ATAGAGC	47	CGTCGTT	118	22
ATAGAGG	51	CTGAGTG	118	22
ATAGAGT	115	CTTCCCG	118	22
ATAGATA	130	GACCGTA	118	22
ATAGATC	54	GATTCTG	118	22
ATAGATG	76	GCCCGAT	118	22
ATAGATT	97	GCGACCA	237	22
ATAGCAA	83	GCGGTGT	118	22
ATAGCAC	43	GCGTAGC	118	22
ATAGCAG	32	GCGTTAG	118	22
ATAGCAT	76	GCTGTAC	118	22
ATAGCCA	69	GGTCAAG	118	22

ATAGCCA	69	GTA ACTG	118	22
ATAGCCG	22	GTCACGA	118	22
ATAGCCT	61	GTTCCGG	118	22
ATAGCGA	18	TAGAACG	118	22
ATAGCGC	4	TATAACG	118	22
ATAGCGG	25	TCAACGC	118	22
ATAGCGT	40	TCCGACG	118	22
ATAGCTA	94	TCGCGCA	118	22
ATAGCTC	69	TGAGGGT	118	22
ATAGCTG	40	TGGTCCC	118	22
ATAGCTT	65	TTTGCGC	118	22
ATAGGAA	69	AACGCCG	118	18
ATAGGAC	29	AATGGCG	118	18
ATAGGAG	51	ACCCGGG	118	18
ATAGGAT	29	ACGAATC	118	18
ATAGGCA	22	ACGCGCA	118	18
ATAGGCC	43	ACGGGCG	118	18
ATAGGCG	11	AGATCGC	118	18
ATAGGCT	25	AGGGGCT	118	18
ATAGGGA	7	ATCCGGG	118	18
ATAGGGC	36	ATGCGCA	118	18
ATAGGGG	43	CACCGGG	118	18
ATAGGGT	43	CAGAGCG	237	18
ATAGGTA	32	CCAGTTA	118	18
ATAGGTC	25	CCCAGTT	118	18
ATAGGTG	58	CCCGATG	118	18
ATAGGTT	72	CCCGGCA	118	18
ATAGTAA	119	CCCGGCA	118	18
ATAGTAC	32	CCGCAAT	118	18
ATAGTAG	47	CGAATCT	118	18
ATAGTAT	83	CGCCGGG	118	18
ATAGTCA	72	CGGGATC	118	18
ATAGTCC	32	CTCCGAG	118	18
ATAGTCG	11	CTGCGGT	118	18
ATAGTCT	47	GAACGCC	118	18
ATAGTGA	69	GACCCAG	118	18
ATAGTGC	47	GAGCGTA	118	18
ATAGTGG	47	GATTCCG	118	18
ATAGTGT	79	GCTAGGT	118	18
ATAGTTA	119	GGGGGCT	118	18
ATAGTTC	76	TCTGAGT	118	18
ATAGTTG	69	AACGCCT	118	14
ATAGTTT	101	CATCCGA	118	14
ATATAAA	274	TCACGAC	118	14
ATATAAC	51	TCCTAGT	118	14
ATATAAG	159	TCGTAAC	118	14
ATATAAT	314	TGCGGAC	118	14
ATATACA	166	ACTTACG	118	11
ATATACC	54	AGTTCTG	118	11
ATATACG	29	ATCTCAG	118	11
ATATACT	108	CGTAACT	118	11
ATATAGA	159	GCGCTTA	118	11

ATATAGC	108	AGCGTAC	118	7
ATATAGG	87	AGCGTAG	118	7
ATATAGT	69	ATTCCGT	118	7
ATATATA	620	CGCTAAT	118	7
ATATATC	170	CGTTATA	118	7
ATATATT	307	CCAGTTC	118	4
ATATCAA	115	GCCGACT	118	4
ATATCAC	51			
ATATCAG	43			
ATATCAT	126			
ATATCCA	61			
ATATCCC	47			
ATATCCG	29			
ATATCCT	51			
ATATCGA	54			
ATATCGC	14			
ATATCGG	47			
ATATCGT	51			
ATATCTA	97			
ATATCTC	76			
ATATCTG	76			
ATATCTT	155			
ATATGAA	126			
ATATGAC	61			
ATATGAG	141			
ATATGAT	152			
ATATGCA	87			
ATATGCC	83			
ATATGCG	40			
ATATGCT	90			
ATATGGA	123			
ATATGGC	72			
ATATGGG	36			
ATATGGT	97			
ATATGTA	148			
ATATGTC	87			
ATATGTG	97			
ATATGTT	177			
ATATTAA	180			
ATATTAC	83			
ATATTAG	83			
ATATTAT	184			
ATATTCA	83			
ATATTCC	47			
ATATTCCG	47			
ATATTCT	101			
ATATTGA	83			
ATATTGC	58			
ATATTGG	51			
ATATTGT	115			
ATATTTA	274			
ATATTTTC	133			

ATATTTG	170
ATATTTT	408
ATCAAAA	108
ATCAAAC	94
ATCAAAG	79
ATCAAAT	126
ATCAACA	90
ATCAACC	54
ATCAACG	54
ATCAACT	87
ATCAAGA	90
ATCAAGC	72
ATCAAGG	58
ATCAAGT	69
ATCAATA	79
ATCAATC	61
ATCAATG	76
ATCAATT	94
ATCACAA	97
ATCACAC	51
ATCACAG	14
ATCACAT	90
ATCACCA	108
ATCACCC	29
ATCACCG	72
ATCACCT	69
ATCACGA	29
ATCACGC	43
ATCACGG	29
ATCACGT	29
ATCACTA	94
ATCACTC	87
ATCACTG	58
ATCACTT	119
ATCAGAA	61
ATCAGAC	69
ATCAGAG	32
ATCAGAT	54
ATCAGCA	61
ATCAGCC	25
ATCAGCG	32
ATCAGCT	76
ATCAGGA	36
ATCAGGC	18
ATCAGGG	58
ATCAGGT	54
ATCAGTA	51
ATCAGTC	32
ATCAGTG	36
ATCAGTT	72
ATCATAA	112
ATCATAC	51

ATCATAG	47
ATCATAT	180
ATCATCA	97
ATCATCC	61
ATCATCG	43
ATCATCT	83
ATCATGA	97
ATCATGC	79
ATCATGG	40
ATCATGT	123
ATCATT A	83
ATCATTC	115
ATCATTG	54
ATCATTT	141
ATCCAAA	141
ATCCAAC	76
ATCCAAG	29
ATCCAAT	87
ATCCACA	97
ATCCACC	61
ATCCACG	40
ATCCACT	90
ATCCAGA	97
ATCCAGC	87
ATCCAGG	29
ATCCAGT	51
ATCCATA	105
ATCCATC	159
ATCCATG	79
ATCCATT	115
ATCCCAA	76
ATCCCAC	47
ATCCCAG	22
ATCCCAT	54
ATCCCCA	69
ATCCCCC	40
ATCCCCG	29
ATCCCCT	58
ATCCCGA	25
ATCCCGC	32
ATCCCGG	14
ATCCCGT	36
ATCCCTA	90
ATCCCTC	54
ATCCCTG	54
ATCCCTT	101
ATCCGAA	36
ATCCGAC	29
ATCCGAG	36
ATCCGAT	43
ATCCGCA	32
ATCCGCC	47

ATCCGCG	40
ATCCGCT	22
ATCCGGA	22
ATCCGGC	40
ATCCGGG	18
ATCCGGT	54
ATCCGTA	54
ATCCGTC	47
ATCCGTG	29
ATCCGTT	47
ATCCTAA	65
ATCCTAC	54
ATCCTAG	65
ATCCTAT	108
ATCCTCA	72
ATCCTCC	76
ATCCTCG	51
ATCCTCT	87
ATCCTGA	58
ATCCTGA	58
ATCCTGC	40
ATCCTGG	40
ATCCTTA	54
ATCCTTC	61
ATCCTTG	51
ATCCTTT	79
ATCGAAA	32
ATCGAAC	47
ATCGAAG	32
ATCGAAT	47
ATCGACA	29
ATCGACC	47
ATCGACG	36
ATCGACT	18
ATCGAGA	54
ATCGAGC	65
ATCGAGG	25
ATCGAGT	47
ATCGATA	36
ATCGATC	83
ATCGATG	51
ATCGATT	72
ATCGCAA	36
ATCGCAC	18
ATCGCAG	18
ATCGCAT	43
ATCGCCA	47
ATCGCCC	29
ATCGCCG	51
ATCGCCT	25
ATCGCGA	11
ATCGCGC	25

ATCGCGG	22
ATCGCGT	14
ATCGCTA	25
ATCGCTC	32
ATCGCTG	22
ATCGCTT	32
ATCGGAA	32
ATCGGAC	32
ATCGGAG	32
ATCGGAT	40
ATCGGCA	51
ATCGGCC	47
ATCGGCG	14
ATCGGCT	65
ATCGGGA	40
ATCGGGA	40
ATCGGGG	25
ATCGGGT	22
ATCGGTA	29
ATCGGTC	40
ATCGGTG	32
ATCGGTT	40
ATCGTAA	14
ATCGTAC	36
ATCGTAG	25
ATCGTAT	29
ATCGTCA	7
ATCGTCC	14
ATCGTCG	22
ATCGTCT	29
ATCGTGA	22
ATCGTGC	25
ATCGTGG	40
ATCGTGT	76
ATCGTTA	18
ATCGTTC	72
ATCGTTG	32
ATCGTTT	51
ATCTAAA	94
ATCTAAC	79
ATCTAAG	58
ATCTAAT	115
ATCTACA	83
ATCTACC	61
ATCTACG	43
ATCTACT	40
ATCTAGA	108
ATCTAGC	40
ATCTAGG	76
ATCTAGT	79
ATCTATA	119
ATCTATC	72

ATCTATG	61
ATCTATT	126
ATCTCAA	79
ATCTCAC	40
ATCTCAG	11
ATCTCAT	177
ATCTCCA	130
ATCTCCC	90
ATCTCCG	22
ATCTCCT	43
ATCTCGA	61
ATCTCGC	51
ATCTCGG	22
ATCTCGT	51
ATCTCTA	90
ATCTCTC	115
ATCTCTG	61
ATCTCTT	133
ATCTGAA	69
ATCTGAA	69
ATCTGAC	83
ATCTGAT	108
ATCTGCA	47
ATCTGCC	43
ATCTGCG	36
ATCTGCT	43
ATCTGGA	43
ATCTGGC	51
ATCTGGG	25
ATCTGGT	32
ATCTGTA	61
ATCTGTC	54
ATCTGTG	54
ATCTGTT	119
ATCTTAA	83
ATCTTAC	40
ATCTTAG	61
ATCTTAT	115
ATCTTCA	105
ATCTTCC	94
ATCTTCG	51
ATCTTCT	130
ATCTTGA	90
ATCTTGC	76
ATCTTGG	119
ATCTTGT	112
ATCTTTA	133
ATCTTTC	119
ATCTTTG	97
ATCTTTT	173
ATGAAAA	173
ATGAAAC	76

ATGAAAG	76
ATGAAAT	112
ATGAACA	112
ATGAACC	79
ATGAACG	47
ATGAACT	90
ATGAAGA	137
ATGAAGC	40
ATGAAGG	58
ATGAAGT	83
ATGAATA	76
ATGAATC	72
ATGAATG	76
ATGAATT	101
ATGACAA	101
ATGACAC	72
ATGACAG	22
ATGACAT	105
ATGACCA	43
ATGACCC	22
ATGACCG	40
ATGACCT	69
ATGACGA	47
ATGACGC	25
ATGACGG	11
ATGACGT	51
ATGACTA	76
ATGACTA	76
ATGACTG	47
ATGACTT	123
ATGAGAA	87
ATGAGAC	54
ATGAGAG	79
ATGAGAT	69
ATGAGCA	72
ATGAGCC	65
ATGAGCG	22
ATGAGCT	97
ATGAGGA	43
ATGAGGC	29
ATGAGGG	51
ATGAGGT	32
ATGAGTA	87
ATGAGTC	25
ATGAGTG	65
ATGAGTT	87
ATGATAA	115
ATGATAC	72
ATGATAG	83
ATGATAT	144
ATGATCA	108
ATGATCC	47

ATGATCG	22
ATGATCT	90
ATGATGA	152
ATGATGC	69
ATGATGG	69
ATGATGT	123
ATGATTA	105
ATGATTC	83
ATGATTG	65
ATGATTT	148
ATGCAAA	130
ATGCAAC	90
ATGCAAG	65
ATGCAAT	79
ATGCACA	130
ATGCACC	69
ATGCACG	58
ATGCACT	112
ATGCAGA	58
ATGCAGC	72
ATGCAGG	25
ATGCAGT	47
ATGCATA	130
ATGCATC	76
ATGCATG	274
ATGCATT	72
ATGCCAA	90
ATGCCAC	51
ATGCCAG	25
ATGCCAT	47
ATGCCCA	69
ATGCCCC	43
ATGCCCG	18
ATGCCCT	58
ATGCCGA	58
ATGCCGC	40
ATGCCGG	54
ATGCCGT	43
ATGCCTA	87
ATGCCTC	69
ATGCCTG	40
ATGCCTT	87
ATGCGAA	36
ATGCGAC	43
ATGCGAG	32
ATGCGAT	29
ATGCGCA	18
ATGCGCC	11
ATGCGCG	43
ATGCGCT	43
ATGCGGA	32
ATGCGGC	36

ATGCGGG	14
ATGCGGT	22
ATGCGTA	40
ATGCGTC	43
ATGCGTG	69
ATGCGTT	36
ATGCTAA	43
ATGCTAC	69
ATGCTAG	40
ATGCTAT	69
ATGCTCA	101
ATGCTCC	54
ATGCTCG	40
ATGCTCT	58
ATGCTGA	69
ATGCTGC	54
ATGCTGG	54
ATGCTGT	36
ATGCTTA	65
ATGCTTC	79
ATGCTTG	101
ATGCTTT	152
ATGAAA	105
ATGGAAC	47
ATGGAAG	69
ATGGAAT	69
ATGGACA	65
ATGGACC	79
ATGGACG	36
ATGGACT	58
ATGGAGA	87
ATGGAGC	61
ATGGAGG	126
ATGGAGT	58
ATGGATA	54
ATGGATC	72
ATGGATG	112
ATGGATT	112
ATGGCAA	69
ATGGCAC	72
ATGGCAG	29
ATGGCAT	87
ATGGCCA	69
ATGGCCC	43
ATGGCCG	32
ATGGCCT	32
ATGGCGA	40
ATGGCGC	22
ATGGCGG	40
ATGGCGT	40
ATGGCTA	51
ATGGCTC	58

ATGGCTG	40
ATGGCTT	36
ATGGGAA	79
ATGGGAC	61
ATGGGAG	54
ATGGGAT	65
ATGGGCA	40
ATGGGCC	40
ATGGGCG	36
ATGGGCT	65
ATGGGGA	36
ATGGGGA	36
ATGGGGC	43
ATGGGGT	47
ATGGGTA	47
ATGGGTC	36
ATGGGTG	54
ATGGGTT	54
ATGGTAA	65
ATGGTAC	40
ATGGTAG	36
ATGGTAT	69
ATGGTCA	47
ATGGTCC	54
ATGGTCG	65
ATGGTCT	58
ATGGTGA	69
ATGGTGC	79
ATGGTGG	47
ATGGTGT	83
ATGGTTA	72
ATGGTTC	40
ATGGTTG	97
ATGGTTT	126
ATGTAAG	133
ATGTAAC	79
ATGTAAG	54
ATGTAAT	123
ATGTACA	87
ATGTACC	32
ATGTACG	36
ATGTACT	83
ATGTAGA	69
ATGTAGC	54
ATGTAGG	43
ATGTAGT	61
ATGTATA	173
ATGTATC	69
ATGTATG	108
ATGTATT	159
ATGTCAA	58
ATGTCAC	47

ATGTCAG	47
ATGTCAT	90
ATGTCCA	51
ATGTCCC	22
ATGTCCG	25
ATGTCCT	76
ATGTCGA	40
ATGTCGC	25
ATGTCGG	22
ATGTCGT	69
ATGTCTA	79
ATGTCTC	76
ATGTCTG	61
ATGTCTT	123
ATGTGAA	112
ATGTGAA	112
ATGTGAC	47
ATGTGAG	72
ATGTGCA	83
ATGTGCC	69
ATGTGCG	51
ATGTGCT	72
ATGTGGA	54
ATGTGGC	40
ATGTGGG	36
ATGTGGT	126
ATGTGTA	105
ATGTGTC	94
ATGTGTG	97
ATGTGTT	105
ATGTTAA	94
ATGTTAC	61
ATGTTAG	76
ATGTTAT	119
ATGTTCA	97
ATGTTCC	61
ATGTTCG	29
ATGTTCT	97
ATGTTGA	115
ATGTTGC	94
ATGTTGG	79
ATGTTGT	152
ATGTTTA	105
ATGTTTC	112
ATGTTTG	94
ATGTTTT	180
ATTAAAA	198
ATTAAAC	141
ATTAAAG	79
ATTAAAT	195
ATTAACA	90
ATTAACC	29

ATTAACG	32
ATTAACT	43
ATTAAGA	72
ATTAAGC	47
ATTAAGG	58
ATTAAGT	61
ATTAATA	130
ATTAATC	97
ATTAATG	83
ATTAATT	231
ATTACAA	126
ATTACAC	69
ATTACAG	43
ATTACAT	90
ATTACCA	54
ATTACCC	25
ATTACCG	25
ATTACCT	51
ATTACGA	18
ATTACGC	18
ATTACGG	22
ATTACGT	22
ATTACTA	119
ATTACTC	83
ATTACTG	29
ATTACTT	61
ATTAGAA	69
ATTAGAC	47
ATTAGAG	87
ATTAGAT	90
ATTAGCA	32
ATTAGCC	65
ATTAGCG	11
ATTAGCT	83
ATTAGGA	51
ATTAGGC	32
ATTAGGG	58
ATTAGGT	69
ATTAGTA	51
ATTAGTC	69
ATTAGTG	58
ATTAGTT	58
ATTATAA	191
ATTATAC	87
ATTATAG	123
ATTATAT	253
ATTATCA	105
ATTATCC	22
ATTATCG	11
ATTATCT	108
ATTATGA	97
ATTATGC	87

ATTATGG	76
ATTATGT	112
ATTATTA	231
ATTATTC	101
ATTATTG	130
ATTATTT	245
ATTCAAA	155
ATTCAAC	87
ATTCAAG	72
ATTCAAT	101
ATTCACA	61
ATTCACC	87
ATTCACG	22
ATTCACT	90
ATTCAGA	76
ATTCAGC	43
ATTCAGG	47
ATTCAGT	43
ATTCATA	137
ATTCATC	144
ATTCATG	90
ATTCATT	137
ATTCCAA	90
ATTCCAC	47
ATTCCAG	72
ATTCCAT	87
ATTCCCA	47
ATTCCCC	58
ATTCCCG	14
ATTCCCT	76
ATTCCGA	25
ATTCCGC	14
ATTCCGG	43
ATTCCGT	7
ATTCCTA	51
ATTCCTC	101
ATTCCTG	54
ATTCCTT	115
ATTCGAA	54
ATTCGAC	47
ATTCGAG	47
ATTCGAT	51
ATTCGCA	14
ATTCGCC	22
ATTCGCG	11
ATTCGCT	32
ATTCGGA	40
ATTCGGC	14
ATTCGGG	11
ATTCGGT	32
ATTCGTA	36
ATTCGTC	32

ATTCGTG	25
ATTCGTT	65
ATTCTAA	94
ATTCTAC	43
ATTCTAG	51
ATTCTAT	105
ATTCTCA	72
ATTCTCC	94
ATTCTCG	36
ATTCTCT	108
ATTCTGA	47
ATTCTGC	32
ATTCTGG	32
ATTCTGT	54
ATTCTTA	90
ATTCTTC	123
ATTCTTG	108
ATTCTTT	141
ATTGAAA	130
ATTGAAC	40
ATTGAAG	43
ATTGAAT	112
ATTGACA	87
ATTGACC	36
ATTGACG	22
ATTGACT	72
ATTGAGA	51
ATTGAGC	65
ATTGAGG	76
ATTGAGT	69
ATTGATA	76
ATTGATC	97
ATTGATG	69
ATTGATT	94
ATTGCAA	115
ATTGCAC	61
ATTGCAG	43
ATTGCAT	94
ATTGCCA	79
ATTGCCA	79
ATTGCCC	25
ATTGCCT	43
ATTGCGA	18
ATTGCGC	40
ATTGCGG	11
ATTGCGT	4
ATTGCTA	69
ATTGCTC	54
ATTGCTG	29
ATTGCTT	83
ATTGGAA	83
ATTGGAC	83

ATTGGAG	105
ATTGGAT	51
ATTGGCA	36
ATTGGCC	40
ATTGGCG	43
ATTGGCT	43
ATTGGGA	29
ATTGGGC	22
ATTGGGG	22
ATTGGGT	51
ATTGGTA	72
ATTGGTC	40
ATTGGTG	65
ATTGGTT	101
ATTGTAA	65
ATTGTAC	22
ATTGTAG	72
ATTGTAT	76
ATTGTCA	115
ATTGTCC	29
ATTGTCCG	22
ATTGTCT	112
ATTGTGA	72
ATTGTGC	43
ATTGTGG	51
ATTGTGT	90
ATTGTTA	65
ATTGTTC	61
ATTGTTG	115
ATTGTTT	213
ATTTAAA	289
ATTTAAC	65
ATTTAAG	108
ATTTAAT	220
ATTTACA	87
ATTTACC	58
ATTTACG	25
ATTTACT	94
ATTTAGA	119
ATTTAGC	83
ATTTAGG	119
ATTTAGT	141
ATTTATA	285
ATTTATA	285
ATTTATC	141
ATTTATG	144
ATTTCAA	144
ATTTCAC	79
ATTTCAG	54
ATTTCAT	126
ATTTCCA	58
ATTTCCC	83

ATTTCCG	29
ATTTCCT	76
ATTTCGA	69
ATTTCGC	22
ATTTCGG	25
ATTTCGT	72
ATTTCTA	152
ATTTCTC	133
ATTTCTG	87
ATTTCTT	148
ATTTGAA	184
ATTTGAC	87
ATTTGAG	115
ATTTGAT	216
ATTTGCA	123
ATTTGCC	54
ATTTGCG	40
ATTTGCT	130
ATTTGGA	119
ATTTGGC	97
ATTTGGG	51
ATTTGGT	141
ATTTGTA	141
ATTTGTC	119
ATTTGTG	101
ATTTGTT	166
ATTTTAA	220
ATTTTAC	112
ATTTTAG	130
ATTTTAT	245
ATTTTCA	141
ATTTTCC	101
ATTTTCG	90
ATTTTCT	216
ATTTTGA	170
ATTTTGC	133
ATTTTGG	130
ATTTTGT	188
ATTTTTA	242
ATTTTTC	184
ATTTTTG	180
ATTTTTT	462
CAAAAAA	299
CAAAAAC	133
CAAAAAG	123
CAAAAAT	159
CAAAACA	133
CAAAACC	115
CAAAACG	36
CAAAACT	123
CAAAAGA	83
CAAAAGC	108

CAAAGG	72
CAAAGT	101
CAAATA	148
CAAATC	126
CAAATG	123
CAAATT	180
CAACAA	216
CAACAC	180
CAACAG	87
CAACAT	126
CAACCA	101
CAACCC	76
CAACCG	51
CAACCT	76
CAACGA	79
CAACGC	58
CAACGG	47
CAACGT	11
CAACTA	126
CAACTC	97
CAACTG	40
CAACTT	126
CAAAGAA	130
CAAAGAC	79
CAAAGAG	65
CAAAGAT	108
CAAAGCA	97
CAAAGCC	76
CAAAGCG	51
CAAAGCT	69
CAAAGGA	76
CAAAGGC	58
CAAAGGG	79
CAAAGGT	90
CAAAGTA	76
CAAAGTC	32
CAAAGTG	69
CAAAGTT	83
CAAATAA	191
CAAATAC	72
CAAATAG	101
CAAATAT	170
CAAATCA	137
CAAATCC	90
CAAATCG	40
CAAATCT	148
CAAATGA	94
CAAATGC	58
CAAATGG	69
CAAATGT	90
CAAATTA	97
CAAATTC	126

CAAATTG	90
CAAATTT	202
CAACAAA	133
CAACAAA	133
CAACAAC	166
CAACAAG	79
CAACACA	148
CAACACC	58
CAACACG	40
CAACACT	43
CAACAGA	97
CAACAGC	83
CAACAGG	43
CAACAGT	58
CAACATA	112
CAACATC	76
CAACATG	115
CAACATT	87
CAACCAA	126
CAACCAC	97
CAACCAG	79
CAACCAT	79
CAACCCA	97
CAACCCC	54
CAACCCG	54
CAACCCCT	79
CAACCGA	51
CAACCGC	36
CAACCGG	43
CAACCGT	22
CAACCTA	76
CAACCTC	58
CAACCTG	22
CAACCTT	69
CAACGAA	40
CAACGAC	90
CAACGAG	47
CAACGAT	43
CAACGCA	58
CAACGCC	25
CAACGCG	29
CAACGCT	47
CAACGGA	65
CAACGGC	94
CAACGGG	36
CAACGGT	72
CAACGTA	22
CAACGTC	32
CAACGTG	51
CAACGTT	40
CAACTAA	105
CAACTAC	51

CAACTAG	61
CAACTAT	65
CAACTCA	97
CAACTCC	94
CAACTCG	54
CAACTCT	51
CAACTGA	25
CAACTGC	51
CAACTGG	25
CAACTGT	40
CAACTTA	58
CAACTTC	69
CAACTTG	90
CAACTTT	112
CAAGAAA	152
CAAGAAC	58
CAAGAAG	101
CAAGAAT	90
CAAGACA	90
CAAGACC	36
CAAGACG	40
CAAGACT	18
CAAGAGA	119
CAAGAGC	83
CAAGAGG	126
CAAGAGT	51
CAAGATA	72
CAAGATC	54
CAAGATG	54
CAAGATT	130
CAAGCAA	137
CAAGCAA	137
CAAGCAG	87
CAAGCAT	90
CAAGCCA	83
CAAGCCC	90
CAAGCCG	40
CAAGCCT	69
CAAGCGA	69
CAAGCGC	43
CAAGCGG	14
CAAGCGT	43
CAAGCTA	90
CAAGCTC	76
CAAGCTG	36
CAAGCTT	51
CAAGGAA	76
CAAGGAC	47
CAAGGAG	72
CAAGGAT	79
CAAGGCA	61
CAAGGCC	69

CAAGGCG	43
CAAGGCT	76
CAAGGGA	61
CAAGGGC	72
CAAGGGG	29
CAAGGGT	69
CAAGGTA	47
CAAGGTC	51
CAAGGTG	47
CAAGGTT	69
CAAGTAA	54
CAAGTAC	54
CAAGTAG	47
CAAGTAT	101
CAAGTCA	69
CAAGTCC	51
CAAGTCG	36
CAAGTCT	40
CAAGTGA	94
CAAGTGC	87
CAAGTGG	83
CAAGTGT	43
CAAGTTA	22
CAAGTTC	87
CAAGTTG	72
CAAGTTT	101
CAATAAA	162
CAATAAC	54
CAATAAG	65
CAATAAT	112
CAATACA	72
CAATACC	47
CAATACG	14
CAATACT	29
CAATAGA	51
CAATAGA	51
CAATAGC	47
CAATAGT	58
CAATATA	115
CAATATC	51
CAATATG	83
CAATATT	79
CAATCAA	58
CAATCAC	76
CAATCAG	51
CAATCAT	65
CAATCCA	144
CAATCCC	69
CAATCCG	32
CAATCCT	101
CAATCGA	43
CAATCGC	54

CAATCGG	54
CAATCGT	29
CAATCTA	54
CAATCTC	90
CAATCTG	32
CAATCTT	87
CAATGAA	90
CAATGAC	72
CAATGAG	36
CAATGAT	69
CAATGCA	76
CAATGCC	40
CAATGCG	25
CAATGCT	54
CAATGGA	32
CAATGGC	32
CAATGGG	69
CAATGGT	22
CAATGTA	72
CAATGTC	22
CAATGTG	32
CAATGTT	69
CAATTAA	83
CAATTAC	29
CAATTAG	51
CAATTAT	112
CAATTCA	101
CAATTCC	40
CAATTCCG	29
CAATTCT	101
CAATTGA	83
CAATTGC	36
CAATTGG	69
CAATTGT	61
CAATTTA	101
CAATTTTC	83
CAATTTG	79
CAATTTT	123
CACAAAA	115
CACAAAC	90
CACAAAG	90
CACAAAT	72
CACAACA	90
CACAACC	61
CACAACG	47
CACAACT	54
CACAAGA	94
CACAAGC	65
CACAAGG	79
CACAAGT	97
CACAATA	69
CACAATC	43

CACAATG	40
CACAATT	108
CACACAA	105
CACACAC	148
CACACAG	65
CACACAT	123
CACACCA	72
CACACCC	61
CACACCG	69
CACACCT	51
CACACGA	51
CACACGC	54
CACACGG	54
CACACGT	61
CACACTA	65
CACACTC	65
CACACTG	54
CACACTT	51
CACAGAA	65
CACAGAC	18
CACAGAG	22
CACAGAT	51
CACAGCA	51
CACAGCC	119
CACAGCG	18
CACAGCT	54
CACAGGA	40
CACAGGC	54
CACAGGG	36
CACAGGT	47
CACAGTA	25
CACAGTC	11
CACAGTG	18
CACAGTT	25
CACATAA	65
CACATAC	47
CACATAG	76
CACATAT	126
CACATCA	97
CACATCC	90
CACATCG	40
CACATCT	108
CACATGA	133
CACATGC	108
CACATGG	72
CACATGT	126
CACATTA	72
CACATTC	65
CACATTG	14
CACATTT	108
CACCAAA	148
CACCAAC	126

CACCAAG	76
CACCAAT	43
CACCACA	97
CACCACC	184
CACCACG	51
CACCACT	101
CACCAGA	90
CACCAGC	90
CACCAGG	36
CACCAGT	61
CACCATA	51
CACCATC	87
CACCATG	69
CACCATT	65
CACCCAA	43
CACCCAC	79
CACCCAG	32
CACCCAT	58
CACCCCA	47
CACCCCC	94
CACCCCG	54
CACCCCT	76
CACCCGA	36
CACCCGC	72
CACCCGG	36
CACCCGT	29
CACCCTA	51
CACCCTC	72
CACCCTG	51
CACCCTT	83
CACCGAA	47
CACCGAC	61
CACCGAG	72
CACCGAT	65
CACCGCA	36
CACCGCC	94
CACCGCG	58
CACCGCT	61
CACCGGA	162
CACCGGC	36
CACCGGG	18
CACCGGT	36
CACCGTA	36
CACCGTC	87
CACCGTG	47
CACCGTT	54
CACCTAA	51
CACCTAC	61
CACCTAG	65
CACCTAT	72
CACCTCA	105
CACCTCA	105

CACCTCC	105
CACCTCG	54
CACCTGA	47
CACCTGC	61
CACCTGG	43
CACCTGT	58
CACCTTA	29
CACCTTC	79
CACCTTG	29
CACCTTT	72
CACGAAA	79
CACGAAC	40
CACGAAG	22
CACGAAT	22
CACGACA	58
CACGACC	40
CACGACG	25
CACGACT	32
CACGAGA	47
CACGAGC	72
CACGAGG	36
CACGAGT	32
CACGATA	25
CACGATC	36
CACGATG	7
CACGATT	29
CACGCAA	58
CACGCAC	76
CACGCAG	51
CACGCAT	58
CACGCCA	51
CACGCCC	54
CACGCCG	51
CACGCCT	51
CACGCGA	47
CACGCGC	58
CACGCGG	51
CACGCGT	36
CACGCTA	29
CACGCTC	40
CACGCTG	29
CACGCTT	79
CACGGAA	14
CACGGAC	36
CACGGAG	29
CACGGAT	54
CACGGCA	58
CACGGCA	58
CACGGCG	29
CACGGCT	29
CACGGGA	22
CACGGGC	65

CACGGGG	32
CACGGGT	29
CACGGTA	22
CACGGTC	51
CACGGTG	76
CACGGTT	54
CACGTAA	29
CACGTAC	105
CACGTAG	32
CACGTAT	22
CACGTCA	61
CACGTCC	54
CACGTCCG	76
CACGTCT	43
CACGTGA	40
CACGTGC	72
CACGTGG	54
CACGTGT	32
CACGTTA	18
CACGTTC	32
CACGTTG	29
CACGTTT	32
CACTAAA	72
CACTAAC	40
CACTAAG	40
CACTAAT	54
CACTACA	72
CACTACC	47
CACTACG	11
CACTACT	58
CACTAGA	54
CACTAGC	61
CACTAGG	40
CACTAGT	51
CACTATA	76
CACTATC	32
CACTATG	58
CACTATT	72
CACTCAA	79
CACTCAC	40
CACTCAG	32
CACTCAT	90
CACTCCA	76
CACTCCC	47
CACTCCG	40
CACTCCT	90
CACTCGA	32
CACTCGC	72
CACTCGG	51
CACTCGT	32
CACTCTA	54
CACTCTC	101

CACTCTG	51
CACTCTT	43
CACTGAA	54
CACTGAC	36
CACTGAG	29
CACTGAT	36
CACTGCA	58
CACTGCC	83
CACTGCG	40
CACTGCT	83
CACTGGA	72
CACTGGC	36
CACTGGG	7
CACTGGT	76
CACTGTA	40
CACTGTC	105
CACTGTG	61
CACTGTT	58
CACTTAA	58
CACTTAC	25
CACTTAG	51
CACTTAT	54
CACTTCA	58
CACTTCC	54
CACTTCG	36
CACTTCT	97
CACTTGA	61
CACTTGC	58
CACTTGG	90
CACTTGT	126
CACTTTA	65
CACTTTA	65
CACTTTC	61
CACTTTT	119
CAGAAAA	126
CAGAAAC	79
CAGAAAG	76
CAGAAAT	72
CAGAACA	51
CAGAACC	47
CAGAACG	32
CAGAACT	25
CAGAAGA	32
CAGAAGC	90
CAGAAGG	29
CAGAAGT	47
CAGAATA	54
CAGAATC	47
CAGAATG	36
CAGAATT	58
CAGACAA	36
CAGACAC	58

CAGACAG	40
CAGACAT	58
CAGACCA	47
CAGACCC	32
CAGACCG	58
CAGACCT	18
CAGACGA	87
CAGACGA	87
CAGACGG	40
CAGACGT	14
CAGACTA	43
CAGACTC	43
CAGACTG	40
CAGACTT	40
CAGAGAA	97
CAGAGAC	25
CAGAGAG	65
CAGAGAT	25
CAGAGCA	40
CAGAGCC	43
CAGAGCG	18
CAGAGCT	47
CAGAGGA	79
CAGAGGC	25
CAGAGGG	54
CAGAGGT	47
CAGAGTA	32
CAGAGTC	29
CAGAGTG	61
CAGAGTT	40
CAGATAA	65
CAGATAC	18
CAGATAG	58
CAGATAT	58
CAGATCA	54
CAGATCC	51
CAGATCG	22
CAGATCT	69
CAGATGA	51
CAGATGC	72
CAGATGG	54
CAGATGT	58
CAGATTA	47
CAGATTC	76
CAGATTG	32
CAGATTT	90
CAGCAAA	72
CAGCAAC	101
CAGCAAG	83
CAGCAAT	32
CAGCACA	94
CAGCACC	54

CAGCACG	25
CAGCACT	54
CAGCAGA	54
CAGCAGC	148
CAGCAGG	69
CAGCAGT	101
CAGCATA	32
CAGCATC	65
CAGCATG	69
CAGCATT	58
CAGCCAA	101
CAGCCAC	105
CAGCCAG	97
CAGCCAT	47
CAGCCCA	76
CAGCCCC	72
CAGCCCG	40
CAGCCCT	87
CAGCCGA	40
CAGCCGC	112
CAGCCGG	58
CAGCCGT	47
CAGCCTA	76
CAGCCTC	29
CAGCCTG	29
CAGCCTT	40
CAGCGAA	36
CAGCGAC	58
CAGCGAG	43
CAGCGAT	36
CAGCGCA	29
CAGCGCC	43
CAGCGCG	29
CAGCGCT	54
CAGCGGA	43
CAGCGGC	40
CAGCGGG	25
CAGCGGT	25
CAGCGTA	7
CAGCGTC	29
CAGCGTG	32
CAGCGTT	11
CAGCTAA	61
CAGCTAC	36
CAGCTAG	108
CAGCTAT	51
CAGCTCA	90
CAGCTCC	69
CAGCTCG	51
CAGCTCT	43
CAGCTGA	25
CAGCTGC	65

CAGCTGG	47
CAGCTGT	32
CAGCTTA	7
CAGCTTC	54
CAGCTTG	51
CAGCTTT	90
CAGGAAA	76
CAGGAAC	54
CAGGAAG	18
CAGGAAT	25
CAGGACA	25
CAGGACC	43
CAGGACG	32
CAGGACT	43
CAGGAGA	58
CAGGAGC	32
CAGGAGG	61
CAGGAGT	40
CAGGATA	29
CAGGATC	36
CAGGATG	22
CAGGATT	36
CAGGCAA	47
CAGGCAC	40
CAGGCAG	51
CAGGCAT	32
CAGGCCA	47
CAGGCCC	25
CAGGCCG	47
CAGGCCT	32
CAGGCGA	36
CAGGCGC	54
CAGGCGG	51
CAGGCGT	18
CAGGCTA	54
CAGGCTC	54
CAGGCTG	58
CAGGCTT	32
CAGGGAA	43
CAGGGAC	40
CAGGGAG	47
CAGGGAT	14
CAGGGCA	72
CAGGGCA	72
CAGGGCC	40
CAGGGCT	36
CAGGGGA	40
CAGGGGC	40
CAGGGGG	54
CAGGGGT	14
CAGGGTA	22
CAGGGTC	36

CAGGGTG	54
CAGGGTT	25
CAGGTAA	47
CAGGTAC	40
CAGGTAG	40
CAGGTAT	32
CAGGTCA	43
CAGGTCC	101
CAGGTCG	22
CAGGTCT	43
CAGGTGA	11
CAGGTGC	40
CAGGTGG	43
CAGGTGT	29
CAGGTTA	22
CAGGTTC	51
CAGGTTG	47
CAGGTTT	36
CAGTAAA	32
CAGTAAC	29
CAGTAAG	25
CAGTAAT	54
CAGTACA	43
CAGTACC	36
CAGTACG	29
CAGTACT	29
CAGTAGA	32
CAGTAGC	47
CAGTAGG	40
CAGTAGT	43
CAGTATA	18
CAGTATC	29
CAGTATG	29
CAGTATT	65
CAGTCAA	43
CAGTCAC	29
CAGTCAG	58
CAGTCAT	32
CAGTCCA	54
CAGTCCC	32
CAGTCCG	76
CAGTCCT	36
CAGTCGA	32
CAGTCGC	40
CAGTCGG	32
CAGTCGT	25
CAGTCTA	76
CAGTCTC	47
CAGTCTG	36
CAGTCTT	43
CAGTGAA	29
CAGTGAC	54

CAGTGAG	47
CAGTGAT	47
CAGTGCA	69
CAGTGCC	54
CAGTGCG	25
CAGTGCT	40
CAGTGGA	29
CAGTGGC	47
CAGTGGG	29
CAGTGGT	51
CAGTGTA	25
CAGTGTC	72
CAGGTG	36
CAGTGTT	32
CAGTTAA	29
CAGTTAC	7
CAGTTAG	43
CAGTTAT	40
CAGTTCA	40
CAGTTCC	14
CAGTTCG	18
CAGTTCT	29
CAGTTGA	40
CAGTTGC	47
CAGTTGG	47
CAGTTGT	47
CAGTTTA	58
CAGTTTA	58
CAGTTTC	58
CAGTTTG	43
CATAAAA	166
CATAAAC	61
CATAAAG	79
CATAAAT	188
CATAACA	72
CATAACC	47
CATAACG	29
CATAACT	61
CATAAGA	54
CATAAGC	32
CATAAGG	58
CATAAGT	54
CATAATA	94
CATAATC	58
CATAATG	25
CATAATT	83
CATACAA	51
CATACAC	40
CATACAG	47
CATACAT	101
CATACCA	83
CATACCC	32

CATACCG	36
CATACCT	61
CATACGA	14
CATACGC	29
CATACGG	22
CATACGT	25
CATACTA	32
CATACTC	54
CATACTG	29
CATACTT	32
CATAGAA	79
CATAGAC	40
CATAGAG	69
CATAGAT	72
CATAGCA	47
CATAGCC	25
CATAGCG	11
CATAGCT	32
CATAGGA	40
CATAGGC	40
CATAGGG	22
CATAGGT	36
CATAGTA	69
CATAGTC	36
CATAGTG	61
CATAGTT	97
CATATAA	159
CATATAC	54
CATATAG	72
CATATAT	249
CATATCA	90
CATATCC	58
CATATCG	36
CATATCT	87
CATATGA	130
CATATGC	61
CATATGG	101
CATATGT	115
CATATTA	83
CATATTC	43
CATATTG	58
CATATTT	177
CATCAAA	108
CATCAAC	94
CATCAAG	76
CATCAAT	54
CATCACA	87
CATCACC	87
CATCACG	47
CATCACT	123
CATCAGA	69
CATCAGC	47

CATCAGG	51
CATCAGT	76
CATCATA	87
CATCATC	87
CATCATG	72
CATCATT	108
CATCCAA	108
CATCCAC	94
CATCCAG	32
CATCCAT	130
CATCCCA	61
CATCCCC	76
CATCCCG	43
CATCCCT	87
CATCCGA	14
CATCCGC	43
CATCCGG	36
CATCCGT	36
CATCCTA	79
CATCCTC	83
CATCCTG	58
CATCCTT	90
CATCGAA	40
CATCGAC	29
CATCGAG	36
CATCGAT	76
CATCGCA	14
CATCGCC	72
CATCGCG	29
CATCGCT	32
CATCGGA	40
CATCGGC	29
CATCGGG	36
CATCGGT	43
CATCGTA	36
CATCGTC	29
CATCGTG	51
CATCGTT	58
CATCTAA	61
CATCTAC	69
CATCTAG	51
CATCTAT	101
CATCTCA	101
CATCTCC	97
CATCTCG	51
CATCTCT	137
CATCTGA	126
CATCTGC	65
CATCTGG	40
CATCTGT	94
CATCTTA	61
CATCTTC	123

CATCTTG	94
CATCTTT	123
CATGAAA	76
CATGAAC	97
CATGAAG	51
CATGAAT	65
CATGACA	65
CATGACC	54
CATGACG	43
CATGACT	79
CATGAGA	51
CATGAGC	90
CATGAGG	47
CATGAGT	58
CATGATA	94
CATGATC	61
CATGATG	101
CATGATT	105
CATGCAA	133
CATGCAA	133
CATGCAC	123
CATGCAT	234
CATGCCA	58
CATGCCC	72
CATGCCG	79
CATGCCT	87
CATGCGA	32
CATGCGC	47
CATGCGG	43
CATGCGT	51
CATGCTA	54
CATGCTC	69
CATGCTG	83
CATGCTT	159
CATGGAA	72
CATGGAC	58
CATGGAG	87
CATGGAT	108
CATGGCA	72
CATGGCC	40
CATGGCG	47
CATGGCT	65
CATGGGA	43
CATGGGC	79
CATGGGG	51
CATGGGT	47
CATGGTA	43
CATGGTC	72
CATGGTG	58
CATGGTT	105
CATGTAA	133
CATGTAC	83

CATGTAG	87
CATGTAT	137
CATGTCA	65
CATGTCC	72
CATGTCG	40
CATGTCT	123
CATGTGA	101
CATGTGC	94
CATGTGG	87
CATGTGT	137
CATGTTA	90
CATGTTC	76
CATGTTG	83
CATGTTT	126
CATTAAG	58
CATTAAT	119
CATTACA	65
CATTACC	7
CATTACG	22
CATTACT	65
CATTAGA	65
CATTAGA	65
CATTAGC	25
CATTAGG	29
CATTATA	87
CATTATC	51
CATTATG	51
CATTATT	119
CATTCAA	72
CATTCAC	32
CATTCAG	47
CATTCAT	69
CATTCCA	108
CATTCCC	79
CATTCCG	29
CATTCCT	97
CATTCGA	36
CATTCGC	18
CATTCGG	36
CATTCGT	43
CATTCTA	69
CATTCTC	65
CATTCTG	29
CATTCTT	87
CATTGAA	65
CATTGAC	54
CATTGAG	43
CATTGAT	72
CATTGCA	83
CATTGCC	36

CATTGCG	25
CATTGCT	43
CATTGGA	65
CATTGGC	51
CATTGGG	40
CATTGGT	51
CATTGTA	43
CATTGTC	72
CATTGTG	22
CATTGTT	83
CATTTAA	166
CATTTAC	58
CATTTAG	105
CATTTAT	130
CATTTCA	51
CATTTCC	54
CATTTCCG	76
CATTTCT	123
CATTTGA	144
CATTTGC	97
CATTTGG	69
CATTTGT	105
CATTTTA	133
CATTTTC	133
CATTTTG	137
CATTTTT	231
CCAAAAA	195
CCAAAAC	119
CCAAAAG	123
CCAAAAT	148
CCAAACA	166
CCAAACC	101
CCAAACG	61
CCAAACT	87
CCAAAGA	79
CCAAAGC	123
CCAAAGG	69
CCAAAGT	43
CCAAATA	119
CCAAATC	126
CCAAATG	76
CCAAATT	137
CCAACAA	126
CCAACAC	61
CCAACAG	54
CCAACAT	94
CCAACCA	133
CCAACCC	101
CCAACCG	32
CCAACCT	51
CCAACGA	76
CCAACGC	29

CCAACGG	97
CCAACGT	32
CCAACTA	61
CCAACTC	119
CCAACTG	32
CCAACTT	58
CCAAGAA	94
CCAAGAC	72
CCAAGAG	97
CCAAGAT	83
CCAAGCA	123
CCAAGCC	105
CCAAGCG	32
CCAAGCT	72
CCAAGGA	43
CCAAGGC	76
CCAAGGG	51
CCAAGGT	79
CCAAGTA	58
CCAAGTA	58
CCAAGTG	69
CCAAGTT	54
CCAATAA	97
CCAATAC	29
CCAATAG	76
CCAATAT	61
CCAATCA	61
CCAATCC	108
CCAATCG	65
CCAATCT	61
CCAATGA	61
CCAATGC	47
CCAATGG	54
CCAATGT	40
CCAATTA	54
CCAATTC	76
CCAATTG	69
CCAATTT	101
CCACAAA	61
CCACAAC	51
CCACAAG	87
CCACAAT	87
CCACACA	72
CCACACC	65
CCACACG	58
CCACACT	69
CCACAGA	54
CCACAGC	65
CCACAGG	61
CCACAGT	14
CCACATA	61
CCACATC	115

CCACATG	87
CCACATT	58
CCACCAA	133
CCACCAC	231
CCACCAG	79
CCACCAT	76
CCACCCA	69
CCACCCC	101
CCACCCG	51
CCACCCT	69
CCACCGA	51
CCACCGC	87
CCACCGG	51
CCACCGT	72
CCACCTA	51
CCACCTC	162
CCACCTG	72
CCACCTT	72
CCACGAA	43
CCACGAC	51
CCACGAG	47
CCACGAT	25
CCACGCA	76
CCACGCC	51
CCACGCG	79
CCACGCT	32
CCACGGA	36
CCACGGC	51
CCACGGG	40
CCACGGT	54
CCACGTA	76
CCACGTC	72
CCACGTG	47
CCACGTT	22
CCACTAA	29
CCACTAC	58
CCACTAG	29
CCACTAT	72
CCACTCA	54
CCACTCC	61
CCACTCG	65
CCACTCT	83
CCACTGA	40
CCACTGC	101
CCACTGG	47
CCACTGT	36
CCACTTA	36
CCACTTC	87
CCACTTG	90
CCACTTT	90
CCAGAAA	76
CCAGAAC	58

CCAGAAG	54
CCAGAAT	76
CCAGACA	69
CCAGACC	54
CCAGACG	61
CCAGACT	25
CCAGAGA	61
CCAGAGC	40
CCAGAGG	58
CCAGAGT	40
CCAGATA	65
CCAGATC	61
CCAGATG	76
CCAGATT	72
CCAGCAA	72
CCAGCAA	72
CCAGCAC	69
CCAGCAG	90
CCAGCCA	133
CCAGCCC	108
CCAGCCG	76
CCAGCCT	69
CCAGCGA	36
CCAGCGC	25
CCAGCGG	14
CCAGCGT	32
CCAGCTA	54
CCAGCTC	83
CCAGCTG	61
CCAGCTT	51
CCAGGAA	29
CCAGGAC	43
CCAGGAG	25
CCAGGAT	40
CCAGGCA	61
CCAGGCC	22
CCAGGCG	25
CCAGGCT	54
CCAGGGA	29
CCAGGGC	47
CCAGGGG	47
CCAGGGT	40
CCAGGTA	22
CCAGGTC	54
CCAGGTG	36
CCAGGTT	36
CCAGTAA	36
CCAGTAC	14
CCAGTAG	29
CCAGTAT	29
CCAGTCA	47
CCAGTCC	54

CCAGTCG	40
CCAGTCT	47
CCAGTGA	47
CCAGTGC	54
CCAGTGG	29
CCAGTGT	25
CCAGTTA	18
CCAGTTC	4
CCAGTTG	29
CCAGTTT	87
CCATAAA	126
CCATAAC	51
CCATAAG	25
CCATAAT	58
CCATACA	25
CCATACC	32
CCATACG	22
CCATACT	32
CCATAGA	40
CCATAGC	43
CCATAGG	29
CCATAGT	83
CCATATA	87
CCATATC	43
CCATATG	108
CCATATT	58
CCATCAA	76
CCATCAC	101
CCATCAG	51
CCATCAT	94
CCATCCA	108
CCATCCC	76
CCATCCG	58
CCATCCT	87
CCATCGA	72
CCATCGC	51
CCATCGG	47
CCATCGT	51
CCATCTA	51
CCATCTC	101
CCATCTG	101
CCATCTT	119
CCATGAA	65
CCATGAC	32
CCATGAG	51
CCATGAT	61
CCATGCA	108
CCATGCC	65
CCATGCG	40
CCATGCT	87
CCATGGA	51
CCATGGC	79

CCATGGG	43
CCATGGT	47
CCATGTA	97
CCATGTC	108
CCATGTG	76
CCATGTT	72
CCATTAA	61
CCATTAC	25
CCATTAG	58
CCATTAT	65
CCATTCA	40
CCATTCC	123
CCATTCCG	36
CCATTCT	47
CCATTGA	36
CCATTGC	54
CCATTGG	72
CCATTGT	43
CCATTTA	76
CCATTTC	69
CCATTTG	126
CCATTTT	97
CCCAAAA	112
CCCAAAC	112
CCCAAAG	61
CCCAAAT	90
CCCAACA	79
CCCAACC	90
CCCAACG	54
CCCAACT	61
CCCAAGA	83
CCCAAGC	79
CCCAAGG	94
CCCAAGT	51
CCCAATA	61
CCCAATC	83
CCCAATG	58
CCCAATT	51
CCCACAA	61
CCCACAC	65
CCCACAG	51
CCCACAT	90
CCCACCA	97
CCCACCC	105
CCCACCG	54
CCCACCT	72
CCCACGA	79
CCCACGA	79
CCCACGC	61
CCCACGT	58
CCCAC TA	36
CCCAC TC	79

CCCCTG	25
CCCCTT	69
CCCAGAA	32
CCCAGAC	40
CCCAGAG	29
CCCAGAT	58
CCCAGCA	40
CCCAGCC	87
CCCAGCG	14
CCCAGCT	25
CCCAGGA	22
CCCAGGC	51
CCCAGGG	25
CCCAGGT	36
CCCAGTA	7
CCCAGTC	58
CCCAGTG	18
CCCAGTT	18
CCCATAA	65
CCCATAC	18
CCCATAG	29
CCCATAT	76
CCCATCA	76
CCCATCC	94
CCCATCG	25
CCCATCT	105
CCCATGA	43
CCCATGC	58
CCCATGG	58
CCCATGT	83
CCCATTA	47
CCCATTC	61
CCCATTG	36
CCCATTT	69
CCCCAAA	72
CCCCAAC	76
CCCCAAG	87
CCCCAAT	79
CCCCACA	83
CCCCACC	123
CCCCACG	61
CCCCACT	54
CCCCAGA	36
CCCCAGC	36
CCCCAGG	25
CCCCAGT	32
CCCCATA	43
CCCCATC	90
CCCCATG	40
CCCCATT	51
CCCCCAA	101
CCCCCAC	87

CCCCCAG	32
CCCCCAT	65
CCCCCCA	58
CCCCCCC	144
CCCCCCG	29
CCCCCCT	69
CCCCCGA	54
CCCCCGC	65
CCCCCGG	54
CCCCCGT	32
CCCCCTA	43
CCCCCTC	112
CCCCCTG	47
CCCCCTT	133
CCCCGAA	43
CCCCGAC	47
CCCCGAG	47
CCCCGAT	29
CCCCGCA	43
CCCCGCC	76
CCCCGCG	40
CCCCGCT	22
CCCCGGA	43
CCCCGGC	51
CCCCGGG	22
CCCCGGT	40
CCCCGTA	18
CCCCGTC	58
CCCCGTG	54
CCCCGTT	72
CCCCTAA	69
CCCCTAA	69
CCCCTAG	25
CCCCTAT	29
CCCCTCA	32
CCCCTCC	144
CCCCTCG	36
CCCCTCT	148
CCCCTGA	61
CCCCTGC	61
CCCCTGG	40
CCCCTGT	32
CCCCTTA	43
CCCCTTC	87
CCCCTTG	58
CCCCTTT	130
CCCGAAA	36
CCCGAAC	25
CCCGAAG	25
CCCGAAT	36
CCCGACA	61
CCCGACC	51

CCCGAOG	61
CCCGACT	25
CCCGAGA	40
CCCGAGC	47
CCCGAGG	32
CCCGAGT	61
CCCGATA	32
CCCGATC	40
CCCGATG	18
CCCGATT	4
CCCGCAA	40
CCCGCAC	47
CCCGCAG	25
CCCGCAT	14
CCCGCCA	40
CCCGCCC	115
CCCGCCG	76
CCCGCCT	36
CCCGCGA	36
CCCGCGC	97
CCCGCGG	43
CCCGCGT	25
CCCGCTA	22
CCCGCTC	54
CCCGCTG	32
CCCGCTT	40
CCCGGAA	25
CCCGGAC	43
CCCGGAG	7
CCCGGAT	36
CCCGGCA	18
CCCGGCA	18
CCCGGCC	94
CCCGGCG	47
CCCGGGA	36
CCCGGGC	22
CCCGGGG	32
CCCGGGT	18
CCCGGTA	22
CCCGGTC	36
CCCGGTG	36
CCCGGTT	51
CCCGTAA	14
CCCGTAC	32
CCCGTAG	14
CCCGTAT	7
CCCGTCA	29
CCCGTCC	69
CCCGTCG	61
CCCGTCT	43
CCCGTGA	32
CCCGTGC	65

CCCGTGG	47
CCCGTGT	36
CCCGTTA	32
CCCGTTC	43
CCCGTTG	51
CCCGTTT	83
CCCTAAA	54
CCCTAAC	58
CCCTAAG	76
CCCTAAT	61
CCCTACA	29
CCCTACC	65
CCCTACG	18
CCCTACT	29
CCCTAGA	43
CCCTAGC	97
CCCTAGG	40
CCCTAGT	40
CCCTATA	36
CCCTATC	58
CCCTATG	36
CCCTATT	72
CCCTCAA	61
CCCTCAC	79
CCCTCAG	22
CCCTCAT	54
CCCTCCA	87
CCCTCCC	101
CCCTCCG	83
CCCTCCT	148
CCCTCGA	36
CCCTCGC	51
CCCTCGG	18
CCCTCGT	47
CCCTCTA	90
CCCTCTC	198
CCCTCTG	14
CCCTCTT	87
CCCTGAA	40
CCCTGAC	25
CCCTGAG	32
CCCTGAT	32
CCCTGCA	51
CCCTGCC	87
CCCTGCG	32
CCCTGCT	87
CCCTGGA	29
CCCTGGC	58
CCCTGGG	58
CCCTGGT	54
CCCTGTA	43
CCCTGTC	54

CCCTGTG	54
CCCTGTT	61
CCCTTAA	47
CCCTTAC	36
CCCTTAG	58
CCCTTAT	51
CCCTTCA	61
CCCTTCC	94
CCCTTCG	72
CCCTTCT	83
CCCTTGA	51
CCCTTGC	83
CCCTTGG	76
CCCTTGT	69
CCCTTTA	61
CCCTTTC	130
CCCTTTG	76
CCCTTTT	123
CCGAAAA	36
CCGAAAC	69
CCGAAAG	47
CCGAAAT	32
CCGAACA	40
CCGAACC	79
CCGAACG	32
CCGAACT	22
CCGAAGA	65
CCGAAGC	29
CCGAAGG	14
CCGAAGT	25
CCGAATA	43
CCGAATC	22
CCGAATG	22
CCGAATT	40
CCGACAA	61
CCGACAC	29
CCGACAG	36
CCGACAT	18
CCGACCA	54
CCGACCC	43
CCGACCG	76
CCGACCT	36
CCGACGA	69
CCGACGA	69
CCGACGC	32
CCGACGG	58
CCGACTA	25
CCGACTC	25
CCGACTG	11
CCGACTT	25
CCGAGAA	40
CCGAGAC	36

CCGAGAG	51
CCGAGAT	32
CCGAGCA	32
CCGAGCC	94
CCGAGCG	40
CCGAGCT	65
CCGAGGA	18
CCGAGGC	61
CCGAGGG	58
CCGAGGT	32
CCGAGTA	32
CCGAGTC	58
CCGAGTG	79
CCGAGTT	32
CCGATAA	29
CCGATAC	25
CCGATAG	11
CCGATAT	22
CCGATCA	25
CCGATCC	94
CCGATCG	65
CCGATCT	47
CCGATGA	51
CCGATGC	40
CCGATGG	36
CCGATGT	25
CCGATTA	25
CCGATTC	22
CCGATTG	25
CCGATTT	43
CCGCAA	36
CCGCAAC	47
CCGCAAG	29
CCGCAAT	18
CCGCACA	22
CCGCACC	61
CCGCACG	54
CCGCACT	43
CCGCAGA	22
CCGCAGC	58
CCGCAGG	47
CCGCAGT	29
CCGCATA	22
CCGCATC	43
CCGCATG	29
CCGCATT	14
CCGCCAA	47
CCGCCAC	69
CCGCCAG	58
CCGCCAT	54
CCGCCCA	54
CCGCCCC	115

CCGCCCG	126
CCGCCCT	83
CCGCCGA	47
CCGCCGC	155
CCGCCGG	61
CCGCCGT	76
CCGCCTA	11
CCGCCTC	65
CCGCCTG	47
CCGCCTT	29
CCGCGAA	25
CCGCGAC	58
CCGCGAG	32
CCGCGAT	25
CCGCGCA	51
CCGCGCC	97
CCGCGCG	123
CCGCGCT	51
CCGCGGA	22
CCGCGGC	72
CCGCGGG	36
CCGCGGT	11
CCGCGTA	11
CCGCGTC	61
CCGCGTG	51
CCGCGTT	22
CCGCTAA	18
CCGCTAA	18
CCGCTAC	40
CCGCTAT	18
CCGCTCA	18
CCGCTCC	87
CCGCTCG	54
CCGCTCT	36
CCGCTGA	43
CCGCTGC	83
CCGCTGG	18
CCGCTGT	22
CCGCTTA	29
CCGCTTC	54
CCGCTTG	32
CCGCTTT	40
CCGAAA	25
CCGGAAC	51
CCGGAAG	22
CCGGAAT	29
CCGGACA	126
CCGGACC	40
CCGGACG	83
CCGGACT	76
CCGGAGA	18
CCGGAGC	43

CCGGAGG	36
CCGGAGT	11
CCGGATA	32
CCGGATC	32
CCGGATG	36
CCGGATT	47
CCGGCAA	22
CCGGCAC	25
CCGGCAG	25
CCGGCAT	47
CCGGCCA	72
CCGGCCC	119
CCGGCCG	119
CCGGCCT	43
CCGGCGA	18
CCGGCGC	72
CCGGCGG	72
CCGGCGT	47
CCGGCTA	32
CCGGCTC	87
CCGGCTG	47
CCGGCTT	65
CCGGGAA	22
CCGGGAC	18
CCGGGAG	32
CCGGGAT	22
CCGGGCA	22
CCGGGCC	72
CCGGGCG	22
CCGGGCT	40
CCGGGGA	36
CCGGGGC	36
CCGGGGG	43
CCGGGGT	40
CCGGGTA	4
CCGGGTC	54
CCGGGTG	58
CCGGGTT	36
CCGGTAA	32
CCGGTAC	29
CCGGTAG	29
CCGGTAT	36
CCGGTCA	40
CCGGTCC	43
CCGGTCG	51
CCGGTCT	43
CCGGTGA	54
CCGGTGC	90
CCGGTGG	108
CCGGTGT	76
CCGGTTA	22
CCGGTTC	58

CCGGTTG	40
CCGGTTT	72
CCGTAAA	25
CCGTAAC	22
CCGTAAG	22
CCGTAAT	18
CCGTACA	25
CCGTACC	25
CCGTACG	47
CCGTACTION	29
CCGTAGA	25
CCGTAGC	22
CCGTAGG	18
CCGTAGT	18
CCGTATA	29
CCGTATC	29
CCGTATG	7
CCGTATT	25
CCGTCAA	22
CCGTCCAC	43
CCGTCCAG	25
CCGTCCAT	18
CCGTCCA	61
CCGTCCC	72
CCGTCCG	90
CCGTCCCT	72
CCGTCCGA	40
CCGTCCGC	58
CCGTCCGG	36
CCGTCCGT	58
CCGTCTA	11
CCGTCTC	58
CCGTCTG	32
CCGTCTT	79
CCGTGAA	36
CCGTGAC	40
CCGTGAG	22
CCGTGAT	25
CCGTGCA	79
CCGTGCC	79
CCGTGCG	47
CCGTGCT	32
CCGTGGA	36
CCGTGGC	76
CCGTGGG	32
CCGTGGT	36
CCGTGTA	25
CCGTGTC	54
CCGTGTG	51
CCGTGTT	36
CCGTTAA	40
CCGTTAC	36

CCGTTAG	36
CCGTTAT	11
CCGTTCA	36
CCGTTCC	58
CCGTTCCG	54
CCGTTCT	29
CCGTTGA	40
CCGTTGA	40
CCGTTGG	101
CCGTTGT	47
CCGTTTA	29
CCGTTTC	22
CCGTTTG	83
CCGTTTT	79
CCTAAAA	79
CCTAAAC	69
CCTAAAG	32
CCTAAAT	76
CCTAACA	29
CCTAACC	69
CCTAACG	29
CCTAACT	43
CCTAAGA	58
CCTAAGC	47
CCTAAGG	58
CCTAAGT	25
CCTAATA	76
CCTAATC	51
CCTAATG	36
CCTAATT	65
CCTACAA	61
CCTACAC	51
CCTACAG	47
CCTACAT	32
CCTACCA	76
CCTACCC	25
CCTACCG	32
CCTACCT	32
CCTACGA	18
CCTACGC	29
CCTACGG	14
CCTACGT	32
CCTACTA	58
CCTACTC	58
CCTACTG	32
CCTACTT	69
CCTAGAA	58
CCTAGAC	69
CCTAGAG	61
CCTAGAT	40
CCTAGCA	51
CCTAGCC	61

CCTAGCG	22
CCTAGCT	90
CCTAGGA	43
CCTAGGC	65
CCTAGGG	29
CCTAGGT	43
CCTAGTA	32
CCTAGTA	32
CCTAGTC	29
CCTAGTT	43
CCTATAA	97
CCTATAC	22
CCTATAG	32
CCTATAT	119
CCTATCA	72
CCTATCC	36
CCTATCG	18
CCTATCT	54
CCTATGA	61
CCTATGC	51
CCTATGG	54
CCTATGT	54
CCTATTA	61
CCTATTC	76
CCTATTG	40
CCTATTT	126
CCTCAAA	94
CCTCAAC	87
CCTCAAG	43
CCTCAAT	79
CCTCACA	65
CCTCACC	76
CCTCACG	58
CCTCACT	79
CCTCAGA	32
CCTCAGC	54
CCTCAGG	40
CCTCAGT	14
CCTCATA	40
CCTCATC	97
CCTCATG	47
CCTCATT	76
CCTCCAA	105
CCTCCAC	105
CCTCCAG	61
CCTCCAT	79
CCTCCCA	97
CCTCCCC	144
CCTCCCG	47
CCTCCCT	101
CCTCCGA	40
CCTCCGC	58

CCTCCGG	69
CCTCCGT	65
CCTCCTA	54
CCTCCTC	292
CCTCCTG	69
CCTCCTT	90
CCTCGAA	36
CCTCGAC	43
CCTCGAG	22
CCTCGAT	25
CCTCGCA	40
CCTCGCC	105
CCTCGCG	65
CCTCGCT	54
CCTCGGA	40
CCTCGGC	47
CCTCGGG	40
CCTCGGT	29
CCTCGTA	22
CCTCGTC	83
CCTCGTG	43
CCTCGTT	25
CCTCTAA	61
CCTCTAC	43
CCTCTAG	101
CCTCTAT	43
CCTCTCA	65
CCTCTCC	202
CCTCTCG	58
CCTCTCT	191
CCTCTGA	22
CCTCTGC	94
CCTCTGG	22
CCTCTGT	36
CCTCTTA	22
CCTCTTC	115
CCTCTTG	130
CCTCTTT	119
CCTGAAA	58
CCTGAAC	40
CCTGAAG	43
CCTGAAT	51
CCTGACA	18
CCTGACC	40
CCTGACG	32
CCTGACT	43
CCTGAGA	43
CCTGAGC	32
CCTGAGG	36
CCTGAGT	25
CCTGATA	25
CCTGATC	43

CCTGATG	58
CCTGATT	29
CCTGCAA	61
CCTGCAC	79
CCTGCAG	72
CCTGCAT	43
CCTGCCA	32
CCTGCCC	108
CCTGCCG	51
CCTGCCT	83
CCTGCGA	29
CCTGCGC	61
CCTGCGG	40
CCTGCGT	40
CCTGCTA	54
CCTGCTC	79
CCTGCTG	79
CCTGCTT	69
CCTGGAA	29
CCTGGAC	54
CCTGGAG	22
CCTGGAT	43
CCTGGCA	58
CCTGGCC	29
CCTGGCG	58
CCTGGCT	32
CCTGGGA	14
CCTGGGC	32
CCTGGGG	51
CCTGGGT	61
CCTGGTA	14
CCTGGTC	65
CCTGGTG	36
CCTGGTT	43
CCTGTAA	36
CCTGTAC	40
CCTGTAG	76
CCTGTAT	40
CCTGTCA	36
CCTGTCC	58
CCTGTCCG	58
CCTGTCT	25
CCTGTGA	43
CCTGTGC	65
CCTGTGG	54
CCTGTGT	43
CCTGTTA	22
CCTGTTC	61
CCTGTTG	32
CCTGTTT	97
CCTTAAA	65
CCTTAAC	36

CCTTAAG	25
CCTTAAT	43
CCTTACA	40
CCTTACA	40
CCTTACG	7
CCTTACT	29
CCTTAGA	25
CCTTAGC	54
CCTTAGG	43
CCTTAGT	47
CCTTATA	51
CCTTATC	51
CCTTATG	47
CCTTATT	83
CCTTCAA	61
CCTTCAC	61
CCTTCAG	54
CCTTCAT	94
CCTTCCA	72
CCTTCCC	119
CCTTCCG	32
CCTTCCT	105
CCTTCGA	65
CCTTCGC	47
CCTTCGG	54
CCTTCGT	105
CCTTCTA	40
CCTTCTC	65
CCTTCTG	65
CCTTCTT	141
CCTTGAA	51
CCTTGAC	43
CCTTGAG	47
CCTTGAT	79
CCTTGCA	76
CCTTGCC	61
CCTTGCG	58
CCTTGCT	87
CCTTGGA	65
CCTTGGC	76
CCTTGGG	69
CCTTGGT	47
CCTTGTA	72
CCTTGTC	58
CCTTGTG	79
CCTTGTT	76
CCTTTAA	76
CCTTTAC	40
CCTTTAG	51
CCTTTAT	69
CCTTTCA	94
CCTTTCC	105

CCTTTCG	65
CCTTCT	94
CCTTTGA	76
CCTTTGC	108
CCTTTGG	90
CCTTTGT	123
CCTTTTA	65
CCTTTTC	144
CCTTTTG	112
CCTTTTT	166
CGAAAAA	69
CGAAAAC	72
CGAAAAG	40
CGAAAAT	72
CGAAACA	65
CGAAACC	69
CGAAACG	47
CGAAACT	47
CGAAAGA	61
CGAAAGC	54
CGAAAGG	29
CGAAAGT	32
CGAAATA	36
CGAAATC	22
CGAAATG	51
CGAAATT	47
CGAACAA	65
CGAACAC	29
CGAACAG	43
CGAACAT	22
CGAACCA	79
CGAACCC	22
CGAACCG	51
CGAACCT	40
CGAACGA	40
CGAACGC	32
CGAACGG	29
CGAACGT	11
CGAACTA	11
CGAACTC	47
CGAACTG	47
CGAACTT	29
CGAAGAA	51
CGAAGAC	25
CGAAGAG	65
CGAAGAT	58
CGAAGCA	43
CGAAGCC	51
CGAAGCG	36
CGAAGCT	47
CGAAGGA	32
CGAAGGA	32

CGAAGGG	43
CGAAGGT	29
CGAAGTA	14
CGAAGTC	18
CGAAGTG	29
CGAAGTT	29
CGAATAA	40
CGAATAC	25
CGAATAG	29
CGAATAT	29
CGAATCA	32
CGAATCC	25
CGAATCG	4
CGAATCT	18
CGAATGA	32
CGAATGC	14
CGAATGG	14
CGAATGT	36
CGAATTA	32
CGAATTC	29
CGAATTG	43
CGAATTT	36
CGACAAA	90
CGACAAC	51
CGACAAG	90
CGACAAT	40
CGACACA	32
CGACACC	32
CGACACG	65
CGACACT	18
CGACAGA	32
CGACAGC	58
CGACAGG	36
CGACAGT	22
CGACATA	32
CGACATC	43
CGACATG	32
CGACATT	29
CGACCAA	43
CGACCAC	25
CGACCAG	36
CGACCAT	43
CGACCCA	51
CGACCCC	18
CGACCCG	61
CGACCCT	25
CGACCGA	58
CGACCGC	43
CGACCGG	54
CGACCGT	72
CGACCTA	51
CGACCTC	43

CGACCTG	32
CGACCTT	40
CGACGAA	72
CGACGAC	90
CGACGAG	61
CGACGAT	43
CGACGCA	36
CGACGCC	36
CGACGCG	47
CGACGCT	40
CGACGGA	58
CGACGGC	65
CGACGGG	47
CGACGGT	40
CGACGTA	29
CGACGTC	36
CGACGTG	32
CGACGTT	32
CGACTAA	29
CGACTAC	29
CGACTAG	22
CGACTAT	29
CGACTCA	40
CGACTCC	32
CGACTCG	40
CGACTCT	51
CGACTGA	29
CGACTGC	43
CGACTGG	7
CGACTGT	43
CGACTTA	43
CGACTTC	32
CGACTTG	58
CGACTTT	32
CGAGAAA	83
CGAGAAC	43
CGAGAAG	43
CGAGAAT	32
CGAGACA	36
CGAGACC	29
CGAGACG	47
CGAGACT	29
CGAGAGA	79
CGAGAGC	43
CGAGAGG	51
CGAGAGT	32
CGAGATA	29
CGAGATA	29
CGAGATC	51
CGAGATG	51
CGAGCAA	54
CGAGCAC	54

CGAGCAG	32
CGAGCAT	32
CGAGCCA	90
CGAGCCC	69
CGAGCCG	61
CGAGCCT	40
CGAGCGA	58
CGAGCGC	47
CGAGCGG	40
CGAGCGT	22
CGAGCTA	51
CGAGCTC	65
CGAGCTG	54
CGAGCTT	58
CGAGGAA	43
CGAGGAC	14
CGAGGAG	69
CGAGGAT	29
CGAGGCA	58
CGAGGCC	47
CGAGGCG	51
CGAGGCT	36
CGAGGGA	47
CGAGGGC	51
CGAGGGG	43
CGAGGGT	25
CGAGGTA	11
CGAGGTC	43
CGAGGTG	32
CGAGGTT	29
CGAGTAA	36
CGAGTAC	40
CGAGTAG	36
CGAGTAT	36
CGAGTCA	25
CGAGTCC	65
CGAGTCG	29
CGAGTCT	25
CGAGTGA	40
CGAGTGC	58
CGAGTGG	43
CGAGTGT	58
CGAGTTA	11
CGAGTTC	29
CGAGTTG	61
CGAGTTT	51
CGATAAA	47
CGATAAC	22
CGATAAG	18
CGATAAT	22
CGATACA	58
CGATACC	18

CGATACG	14
CGATACT	11
CGATAGA	11
CGATAGC	14
CGATAGG	25
CGATAGT	14
CGATATA	36
CGATATC	32
CGATATG	36
CGATATT	47
CGATCAA	36
CGATCAC	29
CGATCAG	36
CGATCAT	29
CGATCCA	108
CGATCCC	36
CGATCCG	69
CGATCCT	54
CGATCGA	112
CGATCGC	14
CGATCGG	36
CGATCGT	36
CGATCTA	36
CGATCTC	65
CGATCTG	43
CGATCTT	79
CGATGAA	51
CGATGAC	43
CGATGAG	61
CGATGAT	43
CGATGCA	40
CGATGCC	29
CGATGCG	40
CGATGCT	22
CGATGGA	40
CGATGGC	18
CGATGGG	51
CGATGGT	40
CGATGTA	43
CGATGTC	18
CGATGTG	22
CGATGTT	25
CGATTAA	36
CGATTAC	18
CGATTAG	36
CGATTAT	47
CGATTCA	32
CGATTCC	22
CGATTCG	25
CGATTCT	36
CGATTGA	32
CGATTGC	32

CGATTGG	29
CGATTGT	29
CGATTTA	40
CGATTTTC	22
CGATTTG	65
CGATTTT	65
CGCAAAA	72
CGCAAAC	36
CGCAAAG	25
CGCAAAT	32
CGCAACA	43
CGCAACC	51
CGCAACG	51
CGCAACT	14
CGCAAGA	25
CGCAAGC	32
CGCAAGG	40
CGCAAGT	40
CGCAATA	18
CGCAATC	29
CGCAATG	32
CGCAATT	18
CGCACAA	36
CGCACAC	40
CGCACAG	14
CGCACAT	14
CGCACCA	29
CGCACCA	29
CGCACCC	61
CGCACCT	22
CGCACGA	22
CGCACGC	54
CGCACGG	61
CGCACGT	79
CGCACTA	22
CGCACTC	29
CGCACTG	22
CGCACTT	22
CGCAGAA	18
CGCAGAC	43
CGCAGAG	58
CGCAGAT	22
CGCAGCA	58
CGCAGCC	51
CGCAGCG	36
CGCAGCT	36
CGCAGGA	51
CGCAGGC	32
CGCAGGG	29
CGCAGGT	29
CGCAGTA	14
CGCAGTC	22

CGCAGTG	22
CGCAGTT	22
CGCATAA	11
CGCATAC	4
CGCATAG	14
CGCATAT	54
CGCATCA	40
CGCATCC	51
CGCATCG	22
CGCATCT	40
CGCATGA	29
CGCATGC	90
CGCATGG	36
CGCATGT	40
CGCATT A	25
CGCATT C	18
CGCATT G	29
CGCATT T	47
CGCCAAA	76
CGCCAAC	61
CGCCAAG	51
CGCCAAT	36
CGCCACA	32
CGCCACC	101
CGCCACG	47
CGCCACT	58
CGCCAGA	22
CGCCAGC	69
CGCCAGG	58
CGCCAGT	25
CGCCATA	29
CGCCATC	76
CGCCATG	51
CGCCATT	54
CGCCCAA	32
CGCCCAC	83
CGCCCAG	40
CGCCCAT	25
CGCCCCA	79
CGCCCCC	105
CGCCCCG	47
CGCCCCT	72
CGCCCGA	40
CGCCCGC	123
CGCCCGG	58
CGCCCGT	43
CGCCCTA	36
CGCCCTA	36
CGCCCTG	51
CGCCCTT	40
CGCCGAA	54
CGCCGAC	40

CGCCGAG	36
CGCCGAT	54
CGCCGCA	61
CGCCGCC	144
CGCCGCG	65
CGCCGCT	72
CGCCGGA	43
CGCCGGC	87
CGCCGGG	18
CGCCGGT	47
CGCCGTA	18
CGCCGTC	87
CGCCGTG	32
CGCCGTT	61
CGCCTAA	11
CGCCTAC	18
CGCCTAG	29
CGCCTAT	25
CGCCTCA	54
CGCCTCC	87
CGCCTCG	43
CGCCTCT	58
CGCCTGA	29
CGCCTGC	87
CGCCTGG	51
CGCCTGT	36
CGCCTTA	7
CGCCTTC	29
CGCCTTG	43
CGCCTTT	40
CGCGAAA	29
CGCGAAC	14
CGCGAAG	22
CGCGAAT	18
CGCGACA	25
CGCGACC	54
CGCGACG	51
CGCGACT	22
CGCGAGA	40
CGCGAGC	47
CGCGAGG	29
CGCGAGT	14
CGCGATA	7
CGCGATC	32
CGCGATG	40
CGCGATT	11
CGCGCAA	40
CGCGCAC	61
CGCGCAG	29
CGCGCAT	43
CGCGCCA	72
CGCGCCC	83

CGCGCCG	72
CGCGCCT	72
CGCGCGA	69
CGCGCGC	234
CGCGCGG	76
CGCGCGT	51
CGCGCTA	36
CGCGCTC	58
CGCGCTG	36
CGCGCTT	36
CGCGGAA	18
CGCGGAA	18
CGCGGAC	72
CGCGGAG	32
cgcggat	61
CGCGGCA	54
CGCGGCC	72
CGCGGCG	36
CGCGGCT	32
CGCGGGA	29
CGCGGGC	61
CGCGGGG	36
CGCGGGT	25
CGCGGTA	0
CGCGGTC	14
CGCGGTG	25
CGCGGTT	32
CGCGTAA	7
CGCGTAC	25
CGCGTAG	4
CGCGTAT	11
CGCGTCA	25
CGCGTCC	51
CGCGTOG	94
CGCGTCT	40
CGCGTGA	32
CGCGTGC	87
CGCGTGG	36
CGCGTGT	43
CGCGTTA	14
CGCGTTC	18
CGCGTTG	25
CGCGTTT	18
CGCTAAA	29
CGCTAAC	47
CGCTAAG	7
CGCTAAT	7
CGCTACA	22
CGCTACC	22
CGCTACG	25
CGCTACT	40
CGCTAGA	22

CGCTAGC	83
CGCTAGG	11
CGCTAGT	29
CGCTATA	32
CGCTATC	14
CGCTATG	18
CGCTATT	36
CGCTCAA	40
CGCTCAC	25
CGCTCAG	22
CGCTCAT	11
CGCTCCA	54
CGCTCCC	76
CGCTCCG	43
CGCTCCT	72
CGCTCGA	29
CGCTCGC	72
CGCTCGG	47
CGCTCGT	29
CGCTCTA	22
CGCTCTC	65
CGCTCTG	29
CGCTCTT	22
CGCTGAA	22
CGCTGAC	25
CGCTGAG	32
CGCTGAT	25
CGCTGCA	25
CGCTGCC	69
CGCTGCG	32
CGCTGCT	47
CGCTGGA	47
CGCTGGC	43
CGCTGGG	29
CGCTGGT	47
CGCTGTA	14
CGCTGTC	36
CGCTGTG	43
CGCTGTT	43
CGCTTAA	11
CGCTTAC	18
CGCTTAG	32
CGCTTAT	36
CGCTTCA	29
CGCTTCC	76
CGCTTCG	25
CGCTTCT	51
CGCTTGA	40
CGCTTGC	36
CGCTTGG	47
CGCTTGT	43
CGCTTTA	18

CGCTTTC	40
CGCTTTG	18
CGCTTTT	58
CGGAAAA	51
CGGAAAC	29
CGGAAAG	32
CGGAAAT	18
CGGAACA	22
CGGAACC	43
CGGAACG	22
CGGAACT	11
CGGAAGA	29
CGGAAGC	36
CGGAAGG	32
CGGAAGT	11
CGGAATA	32
CGGAATC	32
CGGAATG	11
CGGAATT	11
CGGACAA	43
CGGACAC	58
CGGACAG	108
CGGACAT	18
CGGACCA	22
CGGACCA	22
CGGACCC	36
CGGACCG	54
CGGACGA	40
CGGACGC	36
CGGACGG	177
CGGACGT	14
CGGACTA	14
CGGACTC	36
CGGACTG	94
CGGACTT	14
CGGAGAA	29
CGGAGAC	32
CGGAGAG	54
CGGAGAT	25
CGGAGCA	58
CGGAGCC	61
CGGAGCG	51
CGGAGCT	58
CGGAGGA	87
CGGAGGC	40
CGGAGGG	54
CGGAGGT	43
CGGAGTA	14
CGGAGTC	25
CGGAGTG	29
CGGAGTT	36
CGGATAA	25

CGGATAC	29
CGGATAG	22
CGGATAT	40
CGGATCA	51
CGGATCC	40
CGGATCG	32
CGGATCT	43
CGGATGA	32
CGGATGC	32
CGGATGG	69
CGGATGT	29
CGGATTA	32
CGGATTC	36
CGGATTG	29
CGGATTT	61
CGGCAAA	76
CGGCAAC	40
CGGCAAG	25
CGGCAAT	47
CGGCACA	40
CGGCACC	47
CGGCACG	47
CGGCACT	32
CGGCAGA	25
CGGCAGC	54
CGGCAGG	40
CGGCAGT	40
CGGCATA	29
CGGCATC	47
CGGCATG	36
CGGCATT	18
CGGCCAA	47
CGGCCAC	90
CGGCCAG	58
CGGCCAT	58
CGGCCCA	97
CGGCCCC	51
CGGCCCG	79
CGGCCCT	47
CGGCCGA	32
CGGCCGC	90
CGGCCGG	94
CGGCCGT	72
CGGCCTA	25
CGGCCTA	25
CGGCCTC	32
CGGCCTT	54
CGGCGAA	36
CGGCGAC	40
CGGCGAG	22
CGGCGAT	36
CGGCGCA	25

CGGCGCC	76
CGGCGCG	43
CGGCGCT	32
CGGCGGA	51
CGGCGGC	76
CGGCGGG	40
CGGCGGT	51
CGGCGTA	29
CGGCGTC	72
CGGCGTG	43
CGGCGTT	25
CGGCTAA	22
CGGCTAC	40
CGGCTAG	47
CGGCTAT	65
CGGCTCA	83
CGGCTCC	69
CGGCTCG	51
CGGCTCT	40
CGGCTGA	22
CGGCTGC	101
CGGCTGG	14
CGGCTGT	54
CGGCTTA	18
CGGCTTC	51
CGGCTTG	47
CGGCTTT	58
CGGAAA	32
CGGAAAC	22
CGGAAAG	11
CGGAAAT	18
CGGACA	40
CGGACC	18
CGGACG	22
CGGACT	18
CGGAGA	43
CGGAGC	22
CGGAGG	32
CGGAGT	14
CGGATA	29
CGGATC	18
CGGATG	14
CGGATT	43
CGGCAA	11
CGGCAC	51
CGGCAG	40
CGGCAT	22
CGGCCA	72
CGGCCCC	90
CGGCCCG	69
CGGCCT	36
CGGCCGA	43

CGGGCGC	29
CGGGCGG	72
CGGGCGT	22
CGGGCTA	43
CGGGCTC	43
CGGGCTG	54
CGGGCTT	43
CGGGGAA	36
CGGGGAC	32
CGGGGAG	40
CGGGGAT	25
CGGGGCA	18
CGGGGCC	32
CGGGGCG	32
CGGGGCT	32
CGGGGGA	25
CGGGGGC	25
CGGGGGG	47
CGGGGGT	36
CGGGGTA	43
CGGGGTC	40
CGGGGTG	54
CGGGGTT	22
CGGGTAA	14
CGGGTAC	22
CGGGTAG	7
CGGGTAT	22
CGGGTCA	29
CGGGTCC	14
CGGGTCG	32
CGGGTCT	40
CGGGTGA	43
CGGGTGC	43
CGGGTGG	40
CGGGTGT	61
CGGGTTA	36
CGGGTTG	29
CGGGTTT	51
CGGTAAA	43
CGGTAAAC	25
CGGTAAAG	14
CGGTAAAT	18
CGGTACA	32
CGGTACC	43
CGGTACG	11
CGGTACT	22
CGGTAGA	18
CGGTAGC	22
CGGTAGG	14
CGGTAGT	14
CGGTATA	29
CGGTATC	29

CGGTATG	18
CGGTATT	40
CGGTCAA	36
CGGTCAC	54
CGGTCAG	58
CGGTCAT	25
CGGTCCA	47
CGGTCCC	47
CGGTCCG	133
CGGTCCT	32
CGGTCGA	47
CGGTCGC	29
CGGTCGG	51
CGGTCGT	51
CGGTCTA	29
CGGTCTC	36
CGGTCTG	65
CGGTCTT	54
CGGTGAA	36
CGGTGAC	29
CGGTGAG	32
CGGTGAT	40
CGGTGCA	87
CGGTGCC	43
CGGTGCG	47
CGGTGCT	40
CGGTGGA	69
CGGTGGC	79
CGGTGGG	72
CGGTGGT	76
CGGTGTA	32
CGGTGTC	36
CGGTGTG	76
CGGTGTT	22
CGGTTAA	18
CGGTTAC	29
CGGTTAG	43
CGGTTAT	22
CGGTTCA	29
CGGTTCA	29
CGGTTCG	11
CGGTTCT	54
CGGTTGA	29
CGGTTGC	36
CGGTTGG	29
CGGTTGT	51
CGGTTTA	32
CGGTTTC	76
CGGTTTG	61
CGGTTTT	101
CGTAAAA	32
CGTAAAC	36

CGTAAAG	11
CGTAAAT	22
CGTAACA	25
CGTAACC	4
CGTAACG	22
CGTAACT	11
CGTAAGA	29
CGTAAGC	11
CGTAAGG	18
CGTAAGT	7
CGTAATA	18
CGTAATC	18
CGTAATG	36
CGTAATT	11
CGTACAA	25
CGTACAC	29
CGTACAG	29
CGTACAT	29
CGTACCA	29
CGTACCC	32
CGTACCG	36
CGTACCT	22
CGTACGA	29
CGTACGC	54
CGTACGG	22
CGTACGT	126
CGTACTA	32
CGTACTC	36
CGTACTG	40
CGTACTT	40
CGTAGAA	36
CGTAGAC	29
CGTAGAG	43
CGTAGAT	32
CGTAGCA	25
CGTAGCC	29
CGTAGCG	14
CGTAGCT	11
CGTAGGA	25
CGTAGGA	25
CGTAGGC	22
CGTAGGT	18
CGTAGTA	29
CGTAGTC	11
CGTAGTG	54
CGTAGTT	25
CGTATAA	32
CGTATAC	22
CGTATAG	29
CGTATAT	58
CGTATCA	18
CGTATCC	29

CGTATCG	4
CGTATCT	25
CGTATGA	14
CGTATGC	11
CGTATGG	11
CGTATGT	32
CGTATTA	29
CGTATTC	22
CGTATTG	18
CGTATTT	25
CGTCAAA	32
CGTCAAC	36
CGTCAAG	25
CGTCAAT	14
CGTCACA	40
CGTCACC	79
CGTCACG	29
CGTCACT	40
CGTCAGA	51
CGTCAGC	43
CGTCAGG	18
CGTCAGT	25
CGTCATA	7
CGTCATC	32
CGTCATG	36
CGTCATT	22
CGTCCAA	43
CGTCCAC	65
CGTCCAG	32
CGTCCAT	69
CGTCCCA	58
CGTCCCC	72
CGTCCCG	40
CGTCCCT	25
CGTCCGA	51
CGTCCGC	97
CGTCCGG	61
CGTCCGT	58
CGTCCTA	18
CGTCCTC	76
CGTCCTG	43
CGTCCTT	40
CGTCGAA	29
CGTCGAC	72
CGTCGAG	51
CGTCGAT	61
CGTCGCA	36
CGTCGCC	69
CGTCGCG	65
CGTCGCT	29
CGTCGGA	36
CGTCGGC	58

CGTCGGG	36
CGTCGGT	32
CGTCGTA	40
CGTCGTC	170
CGTCGTG	32
CGTCGTT	22
CGTCTAA	7
CGTCTAC	22
CGTCTAG	22
CGTCTAT	18
CGTCTCA	32
CGTCTCC	58
CGTCTCG	72
CGTCTCT	72
CGTCTGA	32
CGTCTGC	32
CGTCTGG	40
CGTCTGT	22
CGTCTTA	14
CGTCTTC	94
CGTCTTG	51
CGTCTTT	61
CGTGAAA	18
CGTG AAC	40
CGTG AAG	36
CGTG AAT	32
CGTGACA	32
CGTGACC	18
CGTGACG	36
CGTGACT	43
CGTGAGA	43
CGTGAGC	43
CGTGAGG	14
CGTGAGT	18
CGTGATA	22
CGTGATC	43
CGTGATG	29
CGTGATT	43
CGTGCAA	61
CGTG CAC	65
CGTG CAG	65
CGTG CAT	76
CGTGCCA	22
CGTGCCC	61
CGTGCCG	87
CGTG CCT	43
CGTGCGA	40
CGTGCGC	76
CGTGCGG	36
CGTGCGT	58
CGTGCTA	51
CGTGCTC	51

CGTGCTG	36
CGTGCTT	43
CGTGGAA	32
CGTGGAC	43
CGTGGAG	101
CGTGGAT	51
CGTGGCA	58
CGTGGCC	79
CGTGGCG	72
CGTGGCT	51
CGTGGGA	32
CGTGGGC	47
CGTGGGG	43
CGTGGGT	54
CGTGGTA	25
CGTGGTC	29
CGTGGTG	54
CGTGGTT	32
CGTGTA	36
CGTGTA	47
CGTGTA	43
CGTGTA	58
CGTGTA	58
CGTGTA	25
CGTGTA	54
CGTGTA	58
CGTGTA	43
CGTGTA	69
CGTGTA	54
CGTGTA	87
CGTGTA	29
CGTGTA	25
CGTGTA	47
CGTGTA	47
CGTAAA	14
CGTAAA	14
CGTAAAG	14
CGTAAAT	40
CGTACA	47
CGTACC	14
CGTACG	11
CGTACT	22
CGTAGA	25
CGTAGC	25
CGTAGG	32
CGTAGT	25
CGTATA	7
CGTATC	36
CGTATG	11
CGTATT	29
CGTCAA	25
CGTCAC	32

CGTTCAG	40
CGTTCAT	58
CGTTCCA	40
CGTTCCC	40
CGTTCCG	36
CGTTCCT	40
CGTTCGA	54
CGTTCGC	18
CGTTCGG	29
CGTTCGT	94
CGTTCTA	11
CGTTCTC	32
CGTTCTG	18
CGTTCTT	51
CGTTGAA	18
CGTTGAC	29
CGTTGAG	36
CGTTGAT	32
CGTTGCA	58
CGTTGCC	36
CGTTGCG	58
CGTTGCT	51
CGTTGGA	43
CGTTGGC	79
CGTTGGG	40
CGTTGGT	40
CGTTGTA	32
CGTTGTC	29
CGTTGTG	36
CGTTGTT	32
CGTTTAA	51
CGTTTAC	22
CGTTTAG	29
CGTTTAT	47
CGTTTCA	29
CGTTTCC	51
CGTTTCG	36
CGTTTCT	54
CGTTTGA	47
CGTTTGC	43
CGTTTGG	79
CGTTTGT	61
CGTTTTA	61
CGTTTTC	69
CGTTTTG	51
CGTTTTT	79
CTAAAAA	166
CTAAAAC	115
CTAAAAG	79
CTAAAAT	213
CTAAACA	108
CTAAACC	54

CTAAACG	47
CTAAACT	108
CTAAAGA	79
CTAAAGC	58
CTAAAGG	36
CTAAAGT	72
CTAAATA	119
CTAAATC	76
CTAAATG	90
CTAAATT	119
CTAACAA	79
CTAACAC	51
CTAACAG	54
CTAACAT	58
CTAACCA	58
CTAACCC	43
CTAACCG	58
CTAACCT	54
CTAACGA	36
CTAACGC	11
CTAACGG	69
CTAACGT	32
CTAACTA	69
CTAACTC	22
CTAACTG	61
CTAACTT	90
CTAAGAA	47
CTAAGAC	29
CTAAGAG	58
CTAAGAT	58
CTAAGCA	43
CTAAGCC	32
CTAAGCG	22
CTAAGCT	43
CTAAGGA	36
CTAAGGC	43
CTAAGGG	43
CTAAGGT	58
CTAAGTA	40
CTAAGTA	40
CTAAGTC	36
CTAAGTG	47
CTAATAA	94
CTAATAC	40
CTAATAG	69
CTAATAT	72
CTAATCA	51
CTAATCC	65
CTAATCG	14
CTAATCT	65
CTAATGA	72
CTAATGC	47

CTAATGG	40
CTAATGT	40
CTAATTA	119
CTAATTC	61
CTAATTG	65
CTAATTT	133
CTACAAA	94
CTACAAC	65
CTACAAG	43
CTACAAT	40
CTACACA	69
CTACACC	36
CTACACG	22
CTACACT	69
CTACAGA	58
CTACAGC	51
CTACAGG	40
CTACAGT	47
CTACATA	83
CTACATC	58
CTACATG	79
CTACATT	65
CTACCAA	76
CTACCAC	58
CTACCAG	40
CTACCAT	69
CTACCCA	36
CTACCCC	58
CTACCCG	4
CTACCCT	36
CTACCGA	25
CTACCGC	25
CTACCGG	25
CTACCGT	22
CTACCTA	51
CTACCTC	61
CTACCTG	7
CTACCTT	87
CTACGAA	22
CTACGAC	36
CTACGAG	11
CTACGAT	32
CTACGCA	22
CTACGCC	25
CTACGCG	11
CTACGCT	22
CTACGGA	25
CTACGGC	25
CTACGGG	36
CTACGGT	22
CTACGTA	36
CTACGTC	40

CTACGTG	29
CTACGTT	29
CTACTAA	65
CTACTAC	90
CTACTAG	94
CTACTAT	54
CTACTCA	58
CTACTCC	79
CTACTCG	43
CTACTCT	47
CTACTGA	40
CTACTGC	47
CTACTGG	40
CTACTGT	40
CTACTTA	58
CTACTTC	61
CTACTTG	69
CTACTTT	105
CTAGAAA	126
CTAGAAC	58
CTAGAAG	43
CTAGAAT	79
CTAGACA	40
CTAGACC	72
CTAGACG	18
CTAGACT	72
CTAGAGA	126
CTAGAGC	101
CTAGAGG	36
CTAGAGT	51
CTAGATA	76
CTAGATA	76
CTAGATG	61
CTAGATT	87
CTAGCAA	94
CTAGCAC	58
CTAGCAG	58
CTAGCAT	65
CTAGCCA	72
CTAGCCC	69
CTAGCCG	79
CTAGCCT	58
CTAGCGA	47
CTAGCGC	18
CTAGCGG	32
CTAGCGT	25
CTAGCTA	209
CTAGCTC	69
CTAGCTG	83
CTAGCTT	90
CTAGGAA	61
CTAGGAC	47

CTAGGAG	51
CTAGGAT	43
CTAGGCA	54
CTAGGCC	58
CTAGGCG	69
CTAGGCT	65
CTAGGGA	40
CTAGGGC	32
CTAGGGG	25
CTAGGGT	25
CTAGGTA	40
CTAGGTC	47
CTAGGTG	61
CTAGGTT	25
CTAGTAA	58
CTAGTAC	32
CTAGTAG	58
CTAGTAT	51
CTAGTCA	58
CTAGTCC	47
CTAGTCG	36
CTAGTCT	51
CTAGTGA	40
CTAGTGC	47
CTAGTGG	51
CTAGTGT	69
CTAGTTA	105
CTAGTTC	36
CTAGTTG	43
CTAGTTT	141
CTATAAA	242
CTATAAC	36
CTATAAG	61
CTATAAT	83
CTATACA	43
CTATACA	43
CTATACC	25
CTATACT	54
CTATAGA	90
CTATAGC	79
CTATAGG	47
CTATAGT	51
CTATATA	245
CTATATC	72
CTATATG	101
CTATATT	126
CTATCAA	65
CTATCAC	61
CTATCAG	29
CTATCAT	79
CTATCCA	61
CTATCCC	18

CTATCCG	29
CTATCCT	18
CTATCGA	32
CTATCGC	22
CTATCGG	11
CTATCGT	18
CTATCTA	65
CTATCTC	72
CTATCTG	47
CTATCTT	69
CTATGAA	72
CTATGAC	47
CTATGAG	32
CTATGAT	94
CTATGCA	83
CTATGCC	43
CTATGCG	11
CTATGCT	36
CTATGGA	40
CTATGGC	58
CTATGGG	40
CTATGGT	58
CTATGTA	79
CTATGTC	40
CTATGTG	69
CTATGTT	61
CTATTAA	94
CTATTAC	43
CTATTAG	40
CTATTAT	79
CTATTCA	141
CTATTCC	14
CTATTCG	25
CTATTCT	65
CTATTGA	65
CTATTGC	32
CTATTGG	65
CTATTGT	83
CTATTTA	162
CTATTTT	90
CTATTTG	105
CTATTTT	180
CTCAAAA	101
CTCAAAC	72
CTCAAAG	54
CTCAAAT	144
CTCAACA	112
CTCAACC	69
CTCAACG	47
CTCAACT	61
CTCAAGA	65
CTCAAGC	51

CTCAAGG	54
CTCAAGT	72
CTCAATA	58
CTCAATC	83
CTCAATG	36
CTCAATT	90
CTCACAA	43
CTCACAC	72
CTCACAG	32
CTCACAT	76
CTCACCA	79
CTCACCC	58
CTCACCG	65
CTCACCT	43
CTCACGA	32
CTCACGC	79
CTCACGG	43
CTCACGT	32
CTCACTA	54
CTCACTC	97
CTCACTG	40
CTCACTT	65
CTCAGAA	54
CTCAGAC	40
CTCAGAG	36
CTCAGAT	25
CTCAGCA	36
CTCAGCC	72
CTCAGCG	29
CTCAGCT	58
CTCAGGA	32
CTCAGGC	32
CTCAGGG	29
CTCAGGT	29
CTCAGTA	25
CTCAGTC	32
CTCAGTG	22
CTCAGTT	40
CTCATAA	65
CTCATAC	36
CTCATAG	51
CTCATAT	133
CTCATCA	130
CTCATCC	87
CTCATCG	36
CTCATCT	133
CTCATGA	58
CTCATGC	72
CTCATGG	65
CTCATGT	101
CTCATTA	65
CTCATTC	65

CTCATTG	58
CTCATTT	130
CTCCAAA	152
CTCCAAC	83
CTCCAAG	69
CTCCAAT	83
CTCCACA	72
CTCCACC	148
CTCCACG	40
CTCCACT	79
CTCCAGA	65
CTCCAGC	72
CTCCAGG	29
CTCCAGT	36
CTCCATA	51
CTCCATC	115
CTCCATG	76
CTCCATT	72
CTCCCAA	90
CTCCCAC	79
CTCCCAG	54
CTCCCAT	79
CTCCCCA	87
CTCCCCC	180
CTCCCCG	58
CTCCCCT	97
CTCCCGA	32
CTCCCGC	76
CTCCCGG	25
CTCCCGT	47
CTCCCTA	43
CTCCCTC	155
CTCCCTG	76
CTCCCTT	79
CTCCGAA	32
CTCCGAC	58
CTCCGAG	18
CTCCGAT	51
CTCCGCA	29
CTCCGCC	58
CTCCGCG	29
CTCCGCT	61
CTCCGGA	32
CTCCGGC	58
CTCCGGG	47
CTCCGGT	36
CTCCGTA	32
CTCCGTC	54
CTCCGTG	32
CTCCGTT	47
CTCCTAA	47
CTCCTAA	47

CTCCTAC	79
CTCCTAG	43
CTCCTCA	130
CTCCTCC	285
CTCCTCG	79
CTCCTCT	256
CTCCTGA	47
CTCCTGC	83
CTCCTGG	32
CTCCTGT	69
CTCCTTA	51
CTCCTTC	133
CTCCTTG	83
CTCCTTT	126
CTCGAAA	58
CTCGAAC	40
CTCGAAG	36
CTCGAAT	29
CTCGACA	40
CTCGACC	36
CTCGACG	22
CTCGACT	61
CTCGAGA	25
CTCGAGC	40
CTCGAGG	40
CTCGAGT	29
CTCGATA	47
CTCGATC	87
CTCGATG	40
CTCGATT	47
CTCGCAA	29
CTCGCAC	25
CTCGCAG	25
CTCGCAT	54
CTCGCCA	72
CTCGCCC	83
CTCGCCG	105
CTCGCCT	54
CTCGCGA	47
CTCGCGC	58
CTCGCGG	47
CTCGCGT	43
CTCGCTA	32
CTCGCTC	97
CTCGCTG	51
CTCGCTT	47
CTCGGAA	54
CTCGGAA	54
CTCGGAG	25
CTCGGAT	29
CTCGGCA	65
CTCGGCC	65

CTCGGCG	40
CTCGGCT	61
CTCGGGA	22
CTCGGGC	40
CTCGGGG	51
CTCGGGT	32
CTCGGTA	32
CTCGGTC	51
CTCGGTG	29
CTCGGTT	47
CTCGTAA	7
CTCGTAC	25
CTCGTAG	51
CTCGTAT	22
CTCGTCA	36
CTCGTCC	83
CTCGTCG	54
CTCGTCT	65
CTCGTGA	40
CTCGTGC	40
CTCGTGG	51
CTCGTGT	32
CTCGTTA	40
CTCGTTC	29
CTCGTTG	54
CTCGTTT	72
CTCTAAA	119
CTCTAAC	36
CTCTAAG	58
CTCTAAT	61
CTCTACA	54
CTCTACC	36
CTCTACG	32
CTCTACT	83
CTCTAGA	72
CTCTAGC	112
CTCTAGG	83
CTCTAGT	72
CTCTATA	112
CTCTATC	61
CTCTATG	58
CTCTATT	112
CTCTCAA	94
CTCTCAC	97
CTCTCAG	61
CTCTCAT	94
CTCTCCA	130
CTCTCCC	141
CTCTCCG	51
CTCTCCT	220
CTCTCGA	25
CTCTCGC	61

CTCTCGG	72
CTCTCGT	65
CTCTCTA	126
CTCTCTC	570
CTCTCTG	61
CTCTCTT	148
CTCTGAA	51
CTCTGAC	32
CTCTGAG	14
CTCTGAT	61
CTCTGCA	76
CTCTGCC	90
CTCTGCG	43
CTCTGCT	105
CTCTGGA	22
CTCTGGC	36
CTCTGGG	25
CTCTGGT	40
CTCTGTA	47
CTCTGTC	61
CTCTGTG	61
CTCTGTT	54
CTCTTAA	43
CTCTTAC	58
CTCTTAG	58
CTCTTAT	58
CTCTTCA	119
CTCTTCC	105
CTCTTCG	76
CTCTTCT	173
CTCTTGA	83
CTCTTGA	83
CTCTTGC	97
CTCTTGT	141
CTCTTTA	72
CTCTTTC	112
CTCTTTG	101
CTCTTTT	115
CTGAAAA	79
CTGAAAC	61
CTGAAAG	61
CTGAAAT	79
CTGAACA	36
CTGAACC	65
CTGAACG	29
CTGAACT	25
CTGAAGA	83
CTGAAGC	32
CTGAAGG	25
CTGAAGT	25
CTGAATA	51
CTGAATC	61

CTGAATG	51
CTGAATT	54
CTGACAA	36
CTGACAC	40
CTGACAG	36
CTGACAT	40
CTGACCA	61
CTGACCA	61
CTGACCG	43
CTGACCT	40
CTGACGA	32
CTGACGC	14
CTGACGG	36
CTGACGT	47
CTGACTA	40
CTGACTC	29
CTGACTG	47
CTGACTT	43
CTGAGAA	51
CTGAGAC	32
CTGAGAG	51
CTGAGAT	54
CTGAGCA	65
CTGAGCC	65
CTGAGCG	22
CTGAGCT	58
CTGAGGA	36
CTGAGGC	43
CTGAGGG	32
CTGAGGT	22
CTGAGTA	36
CTGAGTC	25
CTGAGTG	22
CTGAGTT	36
CTGATAA	36
CTGATAC	25
CTGATAG	18
CTGATAT	72
CTGATCA	61
CTGATCC	43
CTGATCG	29
CTGATCT	51
CTGATGA	94
CTGATGC	43
CTGATGG	40
CTGATGT	83
CTGATTA	40
CTGATTC	29
CTGATTG	47
CTGATTT	76
CTGCAAA	61
CTGCAAC	58

CTGCAAG	79
CTGCAAT	58
CTGCACA	58
CTGCACC	76
CTGCACG	54
CTGCACT	65
CTGCAGA	43
CTGCAGC	61
CTGCAGG	51
CTGCAGT	32
CTGCATA	61
CTGCATC	43
CTGCATG	87
CTGCATT	87
CTGCCAA	29
CTGCCAC	51
CTGCCAG	54
CTGCCAT	54
CTGCCCA	54
CTGCCCC	65
CTGCCCG	36
CTGCCCT	83
CTGCCGA	43
CTGCCGC	72
CTGCCGG	40
CTGCCGT	51
CTGCCTA	25
CTGCCTC	94
CTGCCTG	94
CTGCCTT	87
CTGCGAA	29
CTGCGAC	29
CTGCGAG	25
CTGCGAT	40
CTGCGCA	43
CTGCGCC	54
CTGCGCG	51
CTGCGCT	29
CTGCGGA	25
CTGCGGC	58
CTGCGGG	32
CTGCGGT	18
CTGCGTA	25
CTGCGTC	36
CTGCGTG	87
CTGCGTT	25
CTGCTAA	65
CTGCTAC	40
CTGCTAG	54
CTGCTAT	79
CTGCTCA	47
CTGCTCC	115

CTGCTCG	54
CTGCTCT	87
CTGCTGA	61
CTGCTGC	144
CTGCTGG	61
CTGCTGT	87
CTGCTTA	43
CTGCTTC	61
CTGCTTG	76
CTGCTTT	47
CTGGAAA	76
CTGGAAC	40
CTGGAAG	54
CTGGAAT	14
CTGGACA	47
CTGGACC	51
CTGGACG	25
CTGGACT	51
CTGGAGA	54
CTGGAGC	58
CTGGAGG	43
CTGGAGT	22
CTGGATA	11
CTGGATC	65
CTGGATG	25
CTGGATT	32
CTGGCAA	29
CTGGCAC	61
CTGGCAG	32
CTGGCAT	43
CTGGCCA	51
CTGGCCC	29
CTGGCCG	47
CTGGCCT	43
CTGGCGA	32
CTGGCGC	58
CTGGCGG	51
CTGGCGT	32
CTGGCTA	36
CTGGCTC	36
CTGGCTG	58
CTGGCTT	51
CTGGGAA	40
CTGGGAA	40
CTGGGAC	14
CTGGGAT	25
CTGGGCA	29
CTGGGCC	69
CTGGGCG	22
CTGGGCT	29
CTGGGGA	29
CTGGGGC	43

CTGGGGG	47
CTGGGGT	29
CTGGGTA	14
CTGGGTC	47
CTGGGTG	47
CTGGGTT	25
CTGGTAA	22
CTGGTAC	14
CTGGTAG	25
CTGGTAT	58
CTGGTCA	47
CTGGTCC	54
CTGGTCG	43
CTGGTCT	43
CTGGTGA	32
CTGGTGC	79
CTGGTGG	58
CTGGTGT	43
CTGGTTA	22
CTGGTTC	51
CTGGTTG	51
CTGGTTT	79
CTGAAA	65
CTGTAAC	47
CTGTAAG	18
CTGTAAT	51
CTGTACA	65
CTGTACC	25
CTGTACG	32
CTGTACT	36
CTGTAGA	61
CTGTAGC	83
CTGTAGG	43
CTGTAGT	79
CTGTATA	47
CTGTATC	25
CTGTATG	36
CTGTATT	54
CTGTCAA	29
CTGTCAC	51
CTGTCAG	36
CTGTCAT	43
CTGTCCA	76
CTGTCCC	51
CTGTCCG	133
CTGTCCT	54
CTGTCGA	40
CTGTCGC	29
CTGTCGG	25
CTGTCGT	58
CTGTCTA	29
CTGTCTC	40

CTGTCTG	40
CTGTCTT	61
CTGTGAA	97
CTGTGAC	25
CTGTGAG	32
CTGTGAT	43
CTGTGCA	58
CTGTGCC	43
CTGTGCG	61
CTGTGCT	61
CTGTGGA	58
CTGTGGC	25
CTGTGGG	32
CTGTGGT	43
CTGTGTA	54
CTGTGTC	51
CTGTGTG	54
CTGTGTT	83
CTGTTAA	32
CTGTTAC	40
CTGTTAG	47
CTGTTAT	61
CTGTTCA	51
CTGTTCC	54
CTGTTCCG	51
CTGTTCT	123
CTGTTGA	58
CTGTTGA	58
CTGTTGC	58
CTGTTGG	29
CTGTTTA	51
CTGTTTC	72
CTGTTTG	105
CTGTTTT	112
CTTAAAA	97
CTTAAAC	69
CTTAAAG	72
CTTAAAT	112
CTTAAACA	61
CTTAAACC	25
CTTAAACG	22
CTTAAACT	69
CTTAAAGA	22
CTTAAAGC	40
CTTAAAGG	51
CTTAAAGT	43
CTTAAATA	87
CTTAAATC	29
CTTAAATG	43
CTTAAATT	97
CTTACAA	101
CTTACAC	36

CTTACAG	14
CTTACAT	40
CTTACCA	14
CTTACCC	11
CTTACCG	14
CTTACCT	40
CTTACGA	18
CTTACGC	11
CTTACGG	14
CTTACGT	22
CTTACTA	22
CTTACTC	54
CTTACTG	25
CTTACTT	47
CTTAGAA	43
CTTAGAC	36
CTTAGAG	58
CTTAGAT	58
CTTAGCA	65
CTTAGCC	47
CTTAGCG	29
CTTAGCT	61
CTTAGGA	43
CTTAGGC	36
CTTAGGG	61
CTTAGGT	22
CTTAGTA	69
CTTAGTC	14
CTTAGTG	69
CTTAGTT	51
CTTATAA	90
CTTATAC	51
CTTATAG	32
CTTATAT	115
CTTATCA	43
CTTATCC	87
CTTATCG	18
CTTATCT	61
CTTATGA	47
CTTATGC	43
CTTATGG	51
CTTATGT	40
CTTATTA	90
CTTATTC	58
CTTATTG	87
CTTATTT	173
CTTCAAA	115
CTTCAAC	43
CTTCAAG	72
CTTCAAT	101
CTTCACA	72
CTTCACC	69

CTTCACG	43
CTTCACT	51
CTTCAGA	51
CTTCAGC	58
CTTCAGG	29
CTTCAGT	58
CTTCATA	54
CTTCATC	108
CTTCATG	69
CTTCATT	87
CTTCCAA	65
CTTCCAC	69
CTTCCAG	61
CTTCCAT	87
CTTCCCA	83
CTTCCCC	126
CTTCCCG	22
CTTCCCT	115
CTTCCGA	40
CTTCCGC	36
CTTCCGG	51
CTTCCGT	58
CTTCCTA	69
CTTCCTC	152
CTTCCTG	87
CTTCCTT	141
CTTCGAA	43
CTTCGAC	54
CTTCGAG	47
CTTCGAT	51
CTTCGCA	36
CTTCGCC	51
CTTCGCG	40
CTTCGCT	43
CTTCGGA	29
CTTCGGC	51
CTTCGGG	69
CTTCGGT	32
CTTCGTA	32
CTTCGTC	97
CTTCGTG	54
CTTCGTT	94
CTTCTAA	101
CTTCTAC	83
CTTCTAG	58
CTTCTAT	72
CTTCTCA	69
CTTCTCC	115
CTTCTCG	47
CTTCTCT	159
CTTCTGA	29
CTTCTGC	79

CTTCTGG	69
CTTCTGT	69
CTTCTTA	112
CTTCTTC	260
CTTCTTG	119
CTTCTTT	141
CTTGAAA	76
CTTGAAC	51
CTTGAAG	47
CTTGAAT	40
CTTGACA	47
CTTGACC	40
CTTGACG	36
CTTGACT	36
CTTGAGA	90
CTTGAGC	36
CTTGAGG	58
CTTGAGT	87
CTTGATA	61
CTTGATA	61
CTTGATC	76
CTTGATT	101
CTTGCAA	101
CTTGCAC	79
CTTGCAg	54
CTTGcAT	126
CTTGCCA	69
CTTGCCC	61
CTTGCCG	40
CTTGcCT	51
CTTGCGA	32
CTTGCGC	69
CTTGCGG	47
CTTGCGT	36
CTTGCTA	69
CTTGCTC	105
CTTGCTG	72
CTTGCTT	94
CTTGGA	119
CTTGGAC	79
CTTGGAG	105
CTTGGAT	119
CTTGGCA	87
CTTGGCC	54
CTTGGCG	51
CTTGGCT	83
CTTGGGA	54
CTTGGGC	43
CTTGGGG	32
CTTGGGT	47
CTTGGTA	51
CTTGGTC	51

CTTGGTG	87
CTTGGTT	94
CTTGTA	90
CTTGTA	72
CTTGTA	79
CTTGTA	97
CTTGTA	79
CTTGTC	69
CTTGTC	36
CTTGTC	87
CTTGTA	61
CTTGTC	105
CTTGTC	97
CTTGTC	141
CTTGTA	130
CTTGTC	133
CTTGTC	115
CTTGTC	159
CTTAAA	119
CTTAA	25
CTTAA	51
CTTAA	126
CTTAA	65
CTTAA	65
CTTAA	36
CTTAA	11
CTTAGA	83
CTTAGA	72
CTTAGA	61
CTTAGA	65
CTTATA	90
CTTATC	72
CTTATG	72
CTTATT	144
CTTCAA	94
CTTCAC	43
CTTCAG	61
CTTCAT	83
CTTCCA	101
CTTCCC	87
CTTCCG	36
CTTCCT	108
CTTCGA	25
CTTCGC	36
CTTCGG	54
CTTCGT	36
CTTCTA	83
CTTCTC	130
CTTCTG	119
CTTCTT	188
CTTGAA	94
CTTGAC	76

CTTTGAG	76
CTTTGAT	108
CTTTGCA	61
CTTTGCC	123
CTTTGCG	40
CTTTGCT	130
CTTTGGA	87
CTTTGGC	79
CTTTGGG	79
CTTTGGT	79
CTTTGTA	47
CTTTGTC	133
CTTTGTG	123
CTTTGTT	184
CTTTTAA	90
CTTTTAC	54
CTTTTAG	54
CTTTTAT	152
CTTTTCA	144
CTTTTCC	148
CTTTTCG	40
CTTTTCT	170
CTTTTGA	141
CTTTTGC	112
CTTTTGG	90
CTTTTGT	159
CTTTTTA	148
CTTTTTC	126
CTTTTTG	137
CTTTTTT	278
GAAAAAA	343
GAAAAAC	76
GAAAAAG	148
GAAAAAT	173
GAAAACA	184
GAAAACC	97
GAAAACG	47
GAAAACT	90
GAAAAGA	137
GAAAAGC	83
GAAAAGG	108
GAAAAGT	105
GAAAATA	155
GAAAATC	58
GAAAATG	137
GAAAATT	101
GAAACAA	159
GAAACAC	72
GAAACAG	51
GAAACAT	94
GAAACCA	101
GAAACCC	51

GAAACCG	47
GAAACCT	61
GAAACGA	61
GAAACGC	25
GAAACGG	25
GAAACGT	18
GAAACTA	58
GAAACTC	51
GAAACTG	97
GAAACTT	83
GAAAGAA	148
GAAAGAA	148
GAAAGAC	43
GAAAGAG	108
GAAAGCA	130
GAAAGCC	36
GAAAGCG	51
GAAAGCT	69
GAAAGGA	72
GAAAGGC	36
GAAAGGG	97
GAAAGGT	79
GAAAGTA	40
GAAAGTC	36
GAAAGTG	36
GAAAGTT	87
GAAATAA	112
GAAATAC	61
GAAATAG	76
GAAATAT	115
GAAATCA	69
GAAATCC	47
GAAATCG	43
GAAATCT	72
GAAATGA	69
GAAATGC	58
GAAATGG	90
GAAATGT	90
GAAATTA	94
GAAATTC	69
GAAATTG	90
GAAATTT	126
GAACAAA	79
GAACAAC	72
GAACAAG	79
GAACAAT	61
GAACACA	58
GAACACC	40
GAACACG	36
GAACACT	43
GAACAGA	40
GAACAGC	51

GAACAGG	61
GAACAGT	32
GAACATA	36
GAACATC	47
GAACATG	69
GAACATT	32
GAACCAA	79
GAACCAC	65
GAACCAG	58
GAACCAT	58
GAACCCA	54
GAACCCC	25
GAACCCG	22
GAACCCCT	79
GAACCGA	79
GAACCGC	14
GAACCGG	83
GAACCGT	47
GAACCTA	58
GAACCTC	22
GAACCTG	43
GAACCTT	61
GAACGAA	40
GAACGAC	61
GAACGAG	32
GAACGAT	32
GAACGCA	22
GAACGCC	18
GAACGCG	25
GAACGCT	25
GAACGGA	32
GAACGGA	32
GAACGGC	36
GAACGGT	18
GAACGTA	18
GAACGTC	18
GAACGTG	25
GAACGTT	11
GAACTAA	54
GAACTAC	51
GAACTAG	61
GAACTAT	76
GAACTCA	54
GAACTCC	32
GAACTCG	40
GAACTCT	54
GAACTGA	36
GAACTGC	40
GAACTGG	36
GAACTGT	25
GAACTTA	58
GAACTTC	43

GAACTTG	54
GAAC TTT	61
GAAGAAA	170
GAAGAAA	170
GAAGAAG	271
GAAGAAT	69
GAAGACA	54
GAAGACC	58
GAAGACG	40
GAAGACT	79
GAAGAGA	126
GAAGAGC	94
GAAGAGG	97
GAAGAGT	61
GAAGATA	76
GAAGATC	43
GAAGATG	101
GAAGATT	87
GAAGCAA	105
GAAGCAC	47
GAAGCAG	51
GAAGCAT	54
GAAGCCA	54
GAAGCCC	47
GAAGCCG	47
GAAGCCT	61
GAAGCGA	65
GAAGCGC	22
GAAGCGG	32
GAAGCGT	11
GAAGCTA	79
GAAGCTC	40
GAAGCTG	58
GAAGCTT	40
GAAGGAA	58
GAAGGAC	36
GAAGGAG	83
GAAGGAT	65
GAAGGCA	58
GAAGGCC	29
GAAGGCG	40
GAAGGCT	29
GAAGGGA	58
GAAGGGC	32
GAAGGGG	69
GAAGGGT	14
GAAGGTA	51
GAAGGTC	22
GAAGGTG	69
GAAGGTT	43
GAAGTAA	36
GAAGTAC	25

GAAGTAG	36
GAAGTAT	54
GAAGTCA	40
GAAGTCC	51
GAAGTCG	25
GAAGTCT	47
GAAGTGA	58
GAAGTGC	54
GAAGTGG	65
GAAGTGT	58
GAAGTTA	58
GAAGTTC	32
GAAGTTG	69
GAAGTTT	83
GAATAAA	162
GAATAAC	54
GAATAAG	58
GAATAAT	94
GAATACA	47
GAATACC	40
GAATACG	11
GAATACT	22
GAATAGA	47
GAATAGC	40
GAATAGG	25
GAATAGT	69
GAATATA	108
GAATATC	18
GAATATG	54
GAATATT	72
GAATCAA	83
GAATCAC	29
GAATCAG	54
GAATCAT	101
GAATCCA	65
GAATCCC	18
GAATCCG	32
GAATCCT	47
GAATCGA	36
GAATCGC	18
GAATCGG	25
GAATCGT	11
GAATCTA	61
GAATCTC	18
GAATCTG	51
GAATCTT	58
GAATGAA	47
GAATGAC	29
GAATGAG	22
GAATGAT	79
GAATGCA	58
GAATGCC	32

GAATGCG	25
GAATGCT	43
GAATGGA	101
GAATGGC	11
GAATGGG	54
GAATGGT	43
GAATGTA	32
GAATGTC	40
GAATGTG	51
GAATGTT	58
GAATTAA	61
GAATTAC	47
GAATTAG	36
GAATTAT	133
GAATTCA	101
GAATTCC	51
GAATTCG	29
GAATTCT	61
GAATTGA	69
GAATTGC	22
GAATTGG	65
GAATTGT	76
GAATTTA	51
GAATTTC	90
GAATTTG	97
GAATTTT	105
GACAAAA	148
GACAAAC	43
GACAAAG	65
GACAAAT	108
GACAACA	87
GACAACC	40
GACAACG	36
GACAACT	43
GACAAGA	69
GACAAGC	72
GACAAGG	47
GACAAGT	47
GACAATA	61
GACAATC	54
GACAATG	58
GACAATT	51
GACACAA	79
GACACAC	36
GACACAG	32
GACACAT	105
GACACCA	61
GACACCC	65
GACACCG	22
GACACCT	65
GACACGA	51
GACACGC	58

GACACGG	32
GACACGT	40
GACACTA	29
GACACTC	14
GACACTG	40
GACACTT	25
GACAGAA	40
GACAGAC	47
GACAGAG	25
GACAGAT	47
GACAGCA	36
GACAGCC	47
GACAGCG	54
GACAGCT	36
GACAGGA	29
GACAGGC	29
GACAGGG	43
GACAGGT	29
GACAGTA	25
GACAGTC	79
GACAGTG	65
GACAGTT	47
GACATAA	61
GACATAC	25
GACATAG	22
GACATAT	69
GACATCA	40
GACATCC	47
GACATCG	29
GACATCT	65
GACATGA	54
GACATGC	43
GACATGG	69
GACATGT	105
GACATTA	32
GACATTC	36
GACATTG	43
GACATTT	137
GACCAAA	94
GACCAAC	61
GACCAAG	43
GACCAAT	54
GACCACA	40
GACCACC	79
GACCACG	32
GACCACT	54
GACCAGA	32
GACCAGC	40
GACCAGG	36
GACCAGT	32
GACCATA	58
GACCATC	43

GACCATG	51
GACCATT	43
GACCCAA	83
GACCCAC	29
GACCCAG	18
GACCCAT	43
GACCCCA	29
GACCCCA	29
GACCCCC	4
GACCCCG	32
GACCCGA	69
GACCCGC	29
GACCCGG	36
GACCCGT	40
GACCCTA	32
GACCCTC	36
GACCCTG	29
GACCCTT	43
GACCGAA	22
GACCGAC	40
GACCGAG	51
GACCGAT	43
GACCGCA	25
GACCGCC	61
GACCGCG	43
GACCGCT	29
GACCGGA	32
GACCGGC	40
GACCGGG	47
GACCGGT	36
GACCGTA	22
GACCGTC	36
GACCGTG	29
GACCGTT	87
GACCTAA	40
GACCTAC	32
GACCTAG	47
GACCTAT	61
GACCTCA	32
GACCTCC	40
GACCTCG	29
GACCTCT	40
GACCTGA	11
GACCTGC	51
GACCTGG	25
GACCTGT	29
GACCTTA	40
GACCTTC	43
GACCTTG	32
GACCTTT	76
GACGAAA	72
GACGAAC	36

GACGAAG	69
GACGAAT	36
GACGACA	83
GACGACC	58
GACGACG	141
GACGACT	51
GACGAGA	87
GACGAGC	40
GACGAGG	40
GACGAGT	61
GACGATA	32
GACGATC	18
GACGATG	61
GACGATT	29
GACGCAA	22
GACGCAC	32
GACGCAG	51
GACGCAT	25
GACGCCA	47
GACGCCC	43
GACGCCG	40
GACGCCT	22
GACGCGA	18
GACGCGC	29
GACGCGG	29
GACGCGT	18
GACGCTA	22
GACGCTC	25
GACGCTG	58
GACGCTT	11
GACGGAA	25
GACGGAC	72
GACGGAG	51
GACGGAT	47
GACGGCA	32
GACGGCC	58
GACGGCG	72
GACGGCT	22
GACGGGA	40
GACGGGC	29
GACGGGG	40
GACGGGT	18
GACGGTA	11
GACGGTC	155
GACGGTG	69
GACGGTT	36
GACGTAA	29
GACGTAC	32
GACGTAG	22
GACGTAT	22
GACGTCA	32
GACGTCA	32

GACGTCG	25
GACGTCT	29
GACGTGA	14
GACGTGC	51
GACGTGG	72
GACGTGT	32
GACGTTA	18
GACGTTC	47
GACGTTG	29
GACGTTT	36
GACTAAA	105
GACTAAC	61
GACTAAG	29
GACTAAT	54
GACTACA	54
GACTACC	22
GACTACG	25
GACTACT	29
GACTAGA	54
GACTAGC	47
GACTAGG	14
GACTAGT	32
GACTATA	43
GACTATC	32
GACTATG	40
GACTATT	83
GACTCAA	51
GACTCAC	14
GACTCAG	22
GACTCAT	65
GACTCCA	58
GACTCCC	25
GACTCCG	36
GACTCCT	51
GACTCGA	25
GACTCGC	40
GACTCGG	40
GACTCGT	29
GACTCTA	40
GACTCTA	40
GACTCTC	51
GACTCTT	76
GACTGAA	47
GACTGAC	36
GACTGAG	36
GACTGAT	54
GACTGCA	76
GACTGCC	43
GACTGCG	7
GACTGCT	61
GACTGGA	29
GACTGGC	40

GACTGGG	7
GACTGGT	40
GACTGTA	40
GACTGTC	76
GACTGTG	32
GACTGTT	72
GACTTAA	61
GACTTAC	22
GACTTAG	40
GACTTAT	54
GACTTCA	58
GACTTCC	54
GACTTCG	22
GACTTCT	65
GACTTGA	32
GACTTGC	40
GACTTGG	79
GACTTGT	87
GACTTTA	83
GACTTTC	32
GACTTTG	69
GACTTTT	58
GAGAAAA	195
GAGAAAC	90
GAGAAAG	97
GAGAAAT	87
GAGAACA	51
GAGAACC	43
GAGAACG	36
GAGAACT	54
GAGAAGA	115
GAGAAGA	115
GAGAAGG	79
GAGAAGT	65
GAGAATA	25
GAGAATC	65
GAGAATG	51
GAGAATT	97
GAGACAA	65
GAGACAC	54
GAGACAG	36
GAGACAT	51
GAGACCA	47
GAGACCC	43
GAGACCG	29
GAGACCT	29
GAGACGA	58
GAGACGC	29
GAGACGG	36
GAGACGT	51
GAGACTA	51
GAGACTC	36

GAGACTG	40
GAGACTT	65
GAGAGAA	144
GAGAGAC	43
GAGAGAG	274
GAGAGAT	101
GAGAGCA	79
GAGAGCC	79
GAGAGCG	79
GAGAGCT	69
GAGAGGA	123
GAGAGGC	58
GAGAGGG	162
GAGAGGT	43
GAGAGTA	61
GAGAGTC	58
GAGAGTG	76
GAGAGTT	54
GAGATAA	58
GAGATAC	43
GAGATAG	61
GAGATAT	94
GAGATCA	51
GAGATCC	65
GAGATCG	32
GAGATCT	58
GAGATGA	76
GAGATGC	76
GAGATGG	83
GAGATGT	83
GAGATTA	47
GAGATTC	54
GAGATTG	58
GAGATTT	69
GAGCAAA	105
GAGCAAC	51
GAGCAAG	83
GAGCAAT	69
GAGCACA	61
GAGCACC	76
GAGCACG	43
GAGCACT	47
GAGCAGA	29
GAGCAGC	108
GAGCAGG	36
GAGCAGT	32
GAGCATA	94
GAGCATC	51
GAGCATG	29
GAGCATT	18
GAGCCAA	126
GAGCCAC	69

GAGCCAG	94
GAGCCAT	76
GAGCCCA	83
GAGCCCC	40
GAGCCCG	61
GAGCCCT	61
GAGCCGA	43
GAGCCGC	40
GAGCCGG	32
GAGCCGT	40
GAGCCTA	51
GAGCCTC	69
GAGCCTG	54
GAGCCTT	61
GAGCGAA	36
GAGCGAC	51
GAGCGAG	76
GAGCGAT	36
GAGCGCA	32
GAGCGCC	47
GAGCGCG	43
GAGCGCT	18
GAGCGGA	69
GAGCGGC	51
GAGCGGG	29
GAGCGGT	36
GAGCGTA	18
GAGCGTC	18
GAGCGTG	58
GAGCGTT	11
GAGCTAA	72
GAGCTAC	43
GAGCTAG	76
GAGCTAT	119
GAGCTCA	87
GAGCTCC	105
GAGCTCG	61
GAGCTCT	83
GAGCTGA	72
GAGCTGC	58
GAGCTGG	69
GAGCTGT	47
GAGCTTA	29
GAGCTTC	54
GAGCTTG	47
GAGCTTT	94
GAGGAAA	115
GAGGAAC	58
GAGGAAG	162
GAGGAAT	47
GAGGACA	47
GAGGACC	29

GAGGACG	69
GAGGACT	29
GAGGAGA	148
GAGGAGC	87
GAGGAGG	137
GAGGAGT	94
GAGGATA	51
GAGGATC	32
GAGGATG	61
GAGGATT	94
GAGGCAA	58
GAGGCAC	58
GAGGCAG	72
GAGGCAT	54
GAGGCCA	69
GAGGCCC	58
GAGGCCG	43
GAGGCCT	36
GAGGCGA	25
GAGGCGC	61
GAGGCGG	47
GAGGCGT	29
GAGGCTA	36
GAGGCTC	43
GAGGCTG	58
GAGGCTT	36
GAGGGAA	65
GAGGGAC	69
GAGGGAG	105
GAGGGAT	43
GAGGGCA	54
GAGGGCC	69
GAGGGCG	51
GAGGGCT	47
GAGGGGA	72
GAGGGGC	47
GAGGGGG	87
GAGGGGT	72
GAGGGTA	25
GAGGGTC	51
GAGGGTG	29
GAGGGTT	47
GAGGTAA	22
GAGGTAC	18
GAGGTAG	43
GAGGTAT	25
GAGGTCA	36
GAGGTCA	36
GAGGTCC	40
GAGGTCT	22
GAGGTGA	58
GAGGTGC	40

GAGGTGG	108
GAGGTGT	51
GAGGTTA	36
GAGGTTC	43
GAGGTTG	76
GAGGTTT	61
GAGTAAA	90
GAGTAAC	40
GAGTAAG	51
GAGTAAT	61
GAGTACA	47
GAGTACC	47
GAGTACG	25
GAGTACT	36
GAGTAGA	69
GAGTAGC	40
GAGTAGG	83
GAGTAGT	22
GAGTATA	83
GAGTATC	22
GAGTATG	43
GAGTATT	72
GAGTCAA	40
GAGTCAC	14
GAGTCAG	22
GAGTCAT	61
GAGTCCA	54
GAGTCCC	25
GAGTCCG	54
GAGTCCT	18
GAGTCGA	32
GAGTCGC	32
GAGTCGG	36
GAGTCGT	43
GAGTCTA	36
GAGTCTA	36
GAGTCTC	32
GAGTCTG	54
GAGTGAA	58
GAGTGAC	47
GAGTGAG	76
GAGTGAT	58
GAGTGCA	43
GAGTGCC	47
GAGTGCG	36
GAGTGCT	51
GAGTGGA	65
GAGTGGC	18
GAGTGGG	43
GAGTGGT	61
GAGTGTA	58
GAGTGTC	83

GAGTGTG	51
GAGTGTT	61
GAGTTAA	51
GAGTTAC	25
GAGTTAG	32
GAGTTAT	29
GAGTTCA	79
GAGTTCC	32
GAGTTCG	32
GAGTTCT	51
GAGTTGA	69
GAGTTGC	61
GAGTTGG	51
GAGTTGT	76
GAGTTTA	72
GAGTTTC	58
GAGTTTG	87
GAGTTTT	108
GATAAAA	119
GATAAAC	32
GATAAAG	83
GATAAAT	101
GATAACA	51
GATAACC	36
GATAACG	25
GATAACT	43
GATAAGA	43
GATAAGC	43
GATAAGG	54
GATAAGT	43
GATAATA	72
GATAATC	32
GATAATG	61
GATAATT	69
GATACAA	69
GATACAC	40
GATACAG	36
GATACAT	72
GATACCA	32
GATACCC	18
GATACCG	22
GATACCT	25
GATACGA	43
GATACGC	25
GATACGG	18
GATACGT	18
GATACTA	61
GATACTC	43
GATACTG	40
GATACTT	47
GATAGAA	76
GATAGAC	40

GATAGAG	76
GATAGAT	54
GATAGCA	51
GATAGCC	29
GATAGCG	11
GATAGCT	51
GATAGGA	22
GATAGGC	4
GATAGGG	40
GATAGGT	32
GATAGTA	32
GATAGTC	36
GATAGTG	51
GATAGTT	51
GATATAA	94
GATATAC	18
GATATAG	79
GATATAT	148
GATATCA	36
GATATCC	25
GATATCG	51
GATATCT	54
GATATGA	65
GATATGC	69
GATATGG	61
GATATGT	65
GATATTA	79
GATATTC	47
GATATTG	54
GATATTT	166
GATCAAA	76
GATCAAC	76
GATCAAG	61
GATCAAT	51
GATCACA	43
GATCACC	72
GATCACG	22
GATCACT	47
GATCAGA	32
GATCAGC	36
GATCAGG	32
GATCAGT	40
GATCATA	119
GATCATC	51
GATCATG	87
GATCATT	54
GATCCAA	108
GATCCAC	43
GATCCAG	87
GATCCAT	105
GATCCCA	25
GATCCCC	51

GATCCCG	25
GATCCCT	72
GATCCGA	72
GATCCGC	40
GATCCGG	25
GATCCGT	43
GATCCTA	61
GATCCTC	65
GATCCTG	69
GATCCTT	51
GATCGAA	40
GATCGAC	36
GATCGAG	97
GATCGAT	79
GATCGCA	29
GATCGCC	25
GATCGCG	18
GATCGCT	29
GATCGGA	40
GATCGGA	40
GATCGGC	47
GATCGGG	36
GATCGTA	18
GATCGTC	14
GATCGTG	29
GATCGTT	54
GATCTAA	54
GATCTAC	54
GATCTAG	72
GATCTAT	83
GATCTCA	72
GATCTCC	76
GATCTCG	69
GATCTCT	61
GATCTGA	47
GATCTGC	51
GATCTGG	40
GATCTGT	58
GATCTTA	51
GATCTTC	69
GATCTTG	79
GATCTTT	105
GATGAAA	87
GATGAAA	87
GATGAAC	97
GATGAAT	69
GATGACA	79
GATGACC	40
GATGACG	40
GATGACT	61
GATGAGA	101
GATGAGC	69

GATGAGG	51
GATGAGT	65
GATGATA	105
GATGATC	76
GATGATG	90
GATGATT	87
GATGCAA	47
GATGCAC	69
GATGCAG	47
GATGCAT	83
GATGCCA	61
GATGCCC	51
GATGCCG	29
GATGCCT	83
GATGCGA	22
GATGCGC	29
GATGCGG	36
GATGCGT	51
GATGCTA	58
GATGCTC	61
GATGCTG	22
GATGCTT	47
GATGGAA	51
GATGGAC	54
GATGGAG	105
GATGGAT	65
GATGGCA	72
GATGGCC	58
GATGGCG	40
GATGGCT	32
GATGGGA	58
GATGGGC	61
GATGGGG	29
GATGGGT	69
GATGGTA	61
GATGGTC	36
GATGGTG	94
GATGGTT	36
GATGTAA	65
GATGTAC	47
GATGTAG	47
GATGTAT	61
GATGTCA	65
GATGTCC	29
GATGTCG	43
GATGTCT	87
GATGTGA	83
GATGTGC	83
GATGTGG	61
GATGTGT	61
GATGTTA	61
GATGTTC	43

GATGTTG	72
GATGTTT	83
GATTA AA	83
GATTAAC	43
GATTAAG	58
GATTAAT	97
GATTACA	58
GATTACC	54
GATTACG	22
GATTA CT	43
GATTAGA	54
GATTAGC	40
GATTAGG	29
GATTAGT	43
GATTATA	119
GATTATC	47
GATTATG	69
GATTATT	87
GATTCAA	69
GATTCAC	61
GATTCAG	32
GATTCAT	94
GATTCCA	51
GATTCCC	29
GATTCCG	18
GATTCCT	58
GATTCGA	61
GATTCGC	25
GATTCGG	22
GATTCGT	32
GATTCTA	51
GATTCTC	51
GATTCTG	22
GATTCTT	101
GATTGAA	65
GATTGAC	29
GATTGAG	69
GATTGAT	108
GATTGCA	65
GATTGCC	47
GATTGCG	18
GATTGCT	58
GATTGGA	58
GATTGGC	32
GATTGGG	29
GATTGGT	69
GATTGTA	54
GATTGTC	43
GATTGTG	47
GATTGTT	83
GATTTAA	79
GATTTAC	29

GATTTAG	90
GATTTAT	101
GATTTCA	51
GATTTCC	51
GATTTCCG	29
GATTTCT	83
GATTTGA	126
GATTTGC	94
GATTTGG	101
GATTTGT	108
GATTTTA	108
GATTTTC	79
GATTTTG	115
GATTTTT	209
GCAAAAA	155
GCAAAAC	72
GCAAAAG	72
GCAAAAT	105
GCAAACA	101
GCAAACC	65
GCAAACG	40
GCAAACT	97
GCAAAGA	112
GCAAAGC	51
GCAAAGG	76
GCAAAGT	69
GCAAATA	108
GCAAATC	69
GCAAATG	61
GCAAATT	94
GCAACAA	94
GCAACAC	58
GCAACAG	72
GCAACAT	69
GCAACCA	72
GCAACCC	65
GCAACCG	47
GCAACCT	47
GCAACGA	51
GCAACGC	94
GCAACGG	47
GCAACGT	43
GCAACTA	65
GCAACTC	43
GCAACTG	51
GCAACTT	94
GCAAGAA	83
GCAAGAC	32
GCAAGAG	119
GCAAGAT	54
GCAAGCA	112
GCAAGCC	58

GCAAGCG	54
GCAAGCT	58
GCAAGGA	76
GCAAGGC	72
GCAAGGG	65
GCAAGGT	54
GCAAGTA	72
GCAAGTC	47
GCAAGTG	47
GCAAGTT	65
GCAATAA	69
GCAATAC	22
GCAATAG	14
GCAATAT	65
GCAATCA	79
GCAATCC	47
GCAATCG	47
GCAATCT	72
GCAATGA	72
GCAATGC	61
GCAATGG	29
GCAATGT	22
GCAATTA	25
GCAATTA	25
GCAATTG	40
GCAATTT	51
GCACAAA	83
GCACAAC	69
GCACAAG	72
GCACAAT	40
GCACACA	137
GCACACC	65
GCACACG	61
GCACACT	51
GCACAGA	36
GCACAGC	69
GCACAGG	40
GCACAGT	14
GCACATA	69
GCACATC	25
GCACATG	105
GCACATT	47
GCACCAA	69
GCACCAC	58
GCACCAG	87
GCACCAT	32
GCACCCA	61
GCACCCC	61
GCACCCG	58
GCACCCCT	32
GCACCGA	83
GCACCGC	54

GCACCGG	133
GCACCGT	14
GCACCTA	43
GCACCTC	40
GCACCTG	58
GCACCTT	29
GCACGAA	47
GCACGAC	36
GCACGAG	43
GCACGAT	25
GCACGCA	69
GCACGCC	54
GCACGCG	43
GCACGCT	51
GCACGGA	36
GCACGGC	65
GCACGGG	65
GCACGGT	43
GCACGTA	40
GCACGTC	83
GCACGTG	43
GCACGTT	32
GCACTAA	40
GCACTAC	47
GCACTAG	47
GCACTAT	32
GCACTCA	43
GCACTCC	58
GCACTCG	47
GCACTCT	40
GCACTGA	51
GCACTGC	47
GCACTGG	40
GCACTGT	72
GCACTTA	43
GCACTTC	47
GCACTTG	69
GCACTTT	51
GCAGAAA	61
GCAGAAA	61
GCAGAAC	25
GCAGAAG	25
GCAGACA	32
GCAGACC	47
GCAGACG	54
GCAGACT	32
GCAGAGA	58
GCAGAGC	51
GCAGAGG	61
GCAGAGT	43
GCAGATA	47
GCAGATC	43

GCAGATG	47
GCAGATT	51
GCAGCAA	101
GCAGCAC	54
GCAGCAG	152
GCAGCAT	76
GCAGCCA	69
GCAGCCC	51
GCAGCCG	83
GCAGCCT	36
GCAGCGA	54
GCAGCGC	65
GCAGCGG	65
GCAGCGT	7
GCAGCTA	79
GCAGCTC	65
GCAGCTG	51
GCAGCTT	25
GCAGGAA	51
GCAGGAC	51
GCAGGAG	72
GCAGGAT	22
GCAGGCA	61
GCAGGCC	47
GCAGGCG	65
GCAGGCT	58
GCAGGGA	40
GCAGGGC	47
GCAGGGG	25
GCAGGGT	32
GCAGGTA	36
GCAGGTC	58
GCAGGTG	51
GCAGGTT	18
GCAGTAA	32
GCAGTAC	25
GCAGTAG	54
GCAGTAT	29
GCAGTCA	22
GCAGTCC	43
GCAGTCG	36
GCAGTCT	43
GCAGTGA	54
GCAGTGC	54
GCAGTGG	47
GCAGTGT	40
GCAGTTA	11
GCAGTTC	36
GCAGTTG	47
GCAGTTT	36
GCATAAA	90
GCATAAC	32

GCATAAG	51
GCATAAT	43
GCATACA	65
GCATACC	69
GCATACG	18
GCATACT	51
GCATAGA	61
GCATAGC	11
GCATAGG	51
GCATAGT	32
GCATATA	123
GCATATC	69
GCATATG	69
GCATATT	54
GCATCAA	51
GCATCAC	61
GCATCAG	72
GCATCAT	87
GCATCCA	72
GCATCCC	40
GCATCCG	25
GCATCCT	65
GCATCGA	36
GCATCGC	40
GCATCGG	11
GCATCGT	29
GCATCTA	69
GCATCTC	87
GCATCTG	40
GCATCTT	65
GCATGAA	58
GCATGAC	90
GCATGAG	58
GCATGAT	79
GCATGCA	209
GCATGCC	105
GCATGCG	69
GCATGCT	83
GCATGGA	101
GCATGGC	58
GCATGGG	72
GCATGGT	69
GCATGTA	94
GCATGTC	40
GCATGTG	90
GCATGTT	58
GCATTAA	76
GCATTAC	40
GCATTAG	25
GCATTAT	83
GCATTCA	51
GCATTCC	36

GCATTCG	32
GCATTCT	40
GCATTGA	54
GCATTGC	72
GCATTGG	51
GCATTGT	61
GCATTTA	97
GCATTTT	54
GCATTTG	79
GCATTTT	141
GCCAAAA	137
GCCAAAC	72
GCCAAAG	72
GCCAAAT	69
GCCAACA	69
GCCAACC	54
GCCAACG	87
GCCAACT	51
GCCAAGA	90
GCCAAGA	90
GCCAAGC	112
GCCAAGT	32
GCCAATA	83
GCCAATC	51
GCCAATG	40
GCCAATT	54
GCCACAA	79
GCCACAC	76
GCCACAG	51
GCCACAT	51
GCCACCA	144
GCCACCC	54
GCCACCG	69
GCCACCT	87
GCCACGA	29
GCCACGC	87
GCCACGG	29
GCCACGT	72
GCCACTA	40
GCCACTC	40
GCCACTG	54
GCCACTT	83
GCCAGAA	76
GCCAGAC	32
GCCAGAG	54
GCCAGAT	61
GCCAGCA	65
GCCAGCC	148
GCCAGCG	43
GCCAGCT	83
GCCAGGA	54
GCCAGGC	47

GCCAGGG	54
GCCAGGT	43
GCCAGTA	25
GCCAGTC	51
GCCAGTG	36
GCCAGTT	40
GCCATAA	29
GCCATAC	32
GCCATAG	47
GCCATAT	54
GCCATCA	65
GCCATCC	51
GCCATCG	54
GCCATCT	94
GCCATGA	58
GCCATGC	79
GCCATGG	47
GCCATGT	90
GCCATTA	61
GCCATTC	32
GCCATTG	69
GCCATTT	87
GCCCAAA	94
GCCCAAC	61
GCCCAAG	90
GCCCAAT	29
GCCCACA	54
GCCCACC	76
GCCCACG	72
GCCCACT	65
GCCCAGA	54
GCCCAGC	51
GCCCAGG	40
GCCCAGT	36
GCCCATA	36
GCCCATC	58
GCCCATG	83
GCCCATT	69
GCCCCAA	69
GCCCCAA	69
GCCCCAG	40
GCCCCAT	32
GCCCCCA	123
GCCCCCC	36
GCCCCCG	90
GCCCCCT	47
GCCCCGA	32
GCCCCGC	40
GCCCCGG	43
GCCCCGT	51
GCCCCTA	22
GCCCCTC	79

GCCCCTG	58
GCCCCTT	51
GCCCGAA	40
GCCCGAC	40
GCCCGAG	58
GCCCGAT	22
GCCCGCA	36
GCCCGCC	97
GCCCGCG	79
GCCCGCT	61
GCCCGGA	29
GCCCGGC	83
GCCCGGG	43
GCCCGGT	47
GCCCGTA	18
GCCCGTC	40
GCCCGTG	51
GCCCGTT	54
GCCCTAA	58
GCCCTAC	11
GCCCTAG	51
GCCCTAT	40
GCCCTCA	29
GCCCTCC	83
GCCCTCG	29
GCCCTCT	119
GCCCTGA	32
GCCCTGC	69
GCCCTGG	79
GCCCTGT	40
GCCCTTA	51
GCCCTTC	61
GCCCTTG	58
GCCCTTT	61
GCCGAAA	58
GCCGAAC	40
GCCGAAG	40
GCCGAAT	47
GCCGACA	18
GCCGACC	47
GCCGACG	58
GCCGACT	4
GCCGAGA	54
GCCGAGC	51
GCCGAGG	47
GCCGAGT	83
GCCGATA	18
GCCGATC	47
GCCGATG	40
GCCGATT	29
GCCGCAA	51
GCCGCAC	61

GCCTACG	14
GCCTACT	51
GCCTAGA	54
GCCTAGC	32
GCCTAGG	54
GCCTAGT	25
GCCTATA	47
GCCTATC	29
GCCTATG	69
GCCTATT	47
GCCTCAA	61
GCCTCAC	65
GCCTCAG	51
GCCTCAT	58
GCCTCCA	79
GCCTCCC	58
GCCTCCG	29
GCCTCCT	76
GCCTCGA	25
GCCTCGC	72
GCCTCGG	36
GCCTCGT	54
GCCTCTA	25
GCCTCTC	94
GCCTCTG	54
GCCTCTT	58
GCCTGAA	25
GCCTGAC	36
GCCTGAG	47
GCCTGAT	36
GCCTGCA	79
GCCTGCC	72
GCCTGCG	43
GCCTGCT	76
GCCTGGA	54
GCCTGGC	61
GCCTGGG	40
GCCTGGT	36
GCCTGTA	43
GCCTGTC	40
GCCTGTG	61
GCCTGTT	40
GCCTTAA	22
GCCTTAC	7
GCCTTAG	25
GCCTTAT	40
GCCTTCA	43
GCCTTCC	69
GCCTTCG	54
GCCTTCT	65
GCCTTGA	54
GCCTTGC	72

GCCTTGG	65
GCCTTGT	65
GCCTTTA	51
GCCTTTC	58
GCCTTTG	72
GCCTTTT	105
GCGAAAA	58
GCGAAAC	65
GCGAAAG	36
GCGAAAT	18
GCGAACA	32
GCGAACC	32
GCGAACG	22
GCGAACT	32
GCGAAGA	54
GCGAAGA	54
GCGAAGC	54
GCGAAGG	43
GCGAATA	25
GCGAATC	18
GCGAATG	18
GCGAATT	22
GCGACAA	54
GCGACAC	32
GCGACAG	32
GCGACAT	29
GCGACCA	22
GCGACCC	54
GCGACCG	40
GCGACCT	43
GCGACGA	47
GCGACGC	43
GCGACGG	36
GCGACGT	43
GCGACTA	29
GCGACTC	40
GCGACTG	25
GCGACTT	54
GCGAGAA	47
GCGAGAC	40
GCGAGAG	47
GCGAGAT	29
GCGAGCA	36
GCGAGCC	79
GCGAGCG	47
GCGAGCT	40
GCGAGGA	51
GCGAGGC	69
GCGAGGG	36
GCGAGGT	22
GCGAGTA	40
GCGAGTC	11

GCGAGTG	43
GCGAGTT	22
GCGATAA	18
GCGATAC	7
GCGATAG	11
GCGATAT	11
GCGATCA	25
GCGATCC	54
GCGATCG	32
GCGATCT	40
GCGATGA	43
GCGATGC	25
GCGATGG	40
GCGATGT	22
GCGATTA	29
GCGATTC	25
GCGATTG	25
GCGATTT	40
GCGCAAA	43
GCGCAAC	36
GCGCAAG	32
GCGCAAT	29
GCGCACA	40
GCGCACC	51
GCGCACG	51
GCGCACT	14
GCGCAGA	43
GCGCAGC	43
GCGCAGG	65
GCGCAGT	25
GCGCATA	18
GCGCATC	29
GCGCATG	43
GCGCATT	25
GCGCCAA	94
GCGCCAA	94
GCGCCAC	58
GCGCCAT	72
GCGCCCA	51
GCGCCCC	47
GCGCCCG	76
GCGCCCT	25
GCGCCGA	54
GCGCCGC	69
GCGCCGG	43
GCGCCGT	18
GCGCCTA	22
GCGCCTC	72
GCGCCTG	72
GCGCCTT	40
GCGCGAA	25
GCGCGAC	36

GCGCGAG	51
GCGCGAT	18
GCGCGCA	83
GCGCGCC	97
GCGCGCG	195
GCGCGCT	61
GCGCGGA	69
GCGCGGC	47
GCGCGGG	61
GCGCGGT	22
GCGCGTA	11
GCGCGTC	32
GCGCGTG	94
GCGCGTT	18
GCGCTAA	14
GCGCTAC	29
GCGCTAG	51
GCGCTAT	36
GCGCTCA	29
GCGCTCC	43
GCGCTCG	29
GCGCTCT	22
GCGCTGA	22
GCGCTGC	32
GCGCTGG	76
GCGCTGT	43
GCGCTTA	11
GCGCTTC	25
GCGCTTG	47
GCGCTTT	29
GCGGAAA	29
GCGGAAC	4
GCGGAAG	22
GCGGAAT	18
GCGGACA	32
GCGGACC	22
GCGGACG	61
GCGGACT	36
GCGGAGA	54
GCGGAGC	72
GCGGAGG	87
GCGGAGT	47
GCGGATA	14
GCGGATC	32
GCGGATG	54
GCGGATT	40
GCGGCAA	58
GCGGCAC	69
GCGGCAG	65
GCGGCAT	47
GCGGCCA	54
GCGGCCC	69

GCGGCCG	76
GCGGCCT	47
GCGGCGA	54
GCGGCGC	36
GCGGCGG	43
GCGGCGT	51
GCGGCTA	43
GCGGCTC	29
GCGGCTG	58
GCGGCTT	40
GCGGGAA	22
GCGGGAC	25
GCGGGAG	29
GCGGGAT	11
GCGGGCA	32
GCGGGCC	54
GCGGGCG	72
GCGGGCT	29
GCGGGGA	29
GCGGGGC	22
GCGGGGG	51
GCGGGGT	29
GCGGGTA	25
GCGGGTC	22
GCGGGTG	65
GCGGGTT	7
GCGGTAA	18
GCGGTAC	25
GCGGTAG	18
GCGGTAT	22
GCGGTCA	36
GCGGTCC	40
GCGGTCG	29
GCGGTCT	32
GCGGTGA	22
GCGGTGC	40
GCGGTGG	72
GCGGTGT	22
GCGGTTA	29
GCGGTTC	7
GCGGTTG	36
GCGGTTT	40
GCGTAAA	29
GCGTAAC	4
GCGTAAG	14
GCGTAAT	7
GCGTACA	4
GCGTACC	25
GCGTACG	54
GCGTACT	18
GCGTAGA	14
GCGTAGC	22

GCGTAGG	18
GCGTAGT	4
GCGTATA	32
GCGTATC	14
GCGTATG	7
GCGTATT	18
GCGTCAA	4
GCGTCAC	51
GCGTCAG	47
GCGTCAT	29
GCGTCCA	36
GCGTCCC	36
GCGTCCG	43
GCGTCCT	43
GCGTCGA	54
GCGTCGG	36
GCGTCGT	47
GCGTCTA	14
GCGTCTC	29
GCGTCTG	47
GCGTCTT	40
GCGTGAA	22
GCGTGAC	22
GCGTGAG	36
GCGTGAT	47
GCGTGCA	72
GCGTGCC	47
GCGTGCG	94
GCGTGCT	47
GCGTGGA	58
GCGTGGC	51
GCGTGGG	69
GCGTGGT	29
GCGTGTA	47
GCGTGTC	32
GCGTGTG	87
GCGTGTT	36
GCGTTAA	7
GCGTTAC	11
GCGTTAG	22
GCGTTAT	4
GCGTTCA	29
GCGTTCC	14
GCGTTCG	29
GCGTTCT	7
GCGTTGA	14
GCGTTGC	51
GCGTTGG	32
GCGTTGT	11
GCGTTTA	25
GCGTTTC	54
GCGTTTG	58

GCGTTTT	36
GCTAAAA	152
GCTAAAC	87
GCTAAAG	72
GCTAAAT	61
GCTAACA	105
GCTAACC	14
GCTAACG	40
GCTAACT	76
GCTAAGA	40
GCTAAGC	25
GCTAAGG	22
GCTAAGT	36
GCTAATA	65
GCTAATC	32
GCTAATG	43
GCTAATT	65
GCTACAA	61
GCTACAC	47
GCTACAG	51
GCTACAT	58
GCTACCA	76
GCTACCC	18
GCTACCG	14
GCTACCT	47
GCTACGA	22
GCTACGC	11
GCTACGG	43
GCTACGT	47
GCTACTA	72
GCTACTC	36
GCTACTG	36
GCTACTT	54
GCTAGAA	61
GCTAGAC	25
GCTAGAG	54
GCTAGAT	72
GCTAGCA	83
GCTAGCC	105
GCTAGCG	58
GCTAGCT	198
GCTAGGA	61
GCTAGGC	54
GCTAGGG	32
GCTAGGT	18
GCTAGTA	43
GCTAGTC	65
GCTAGTG	65
GCTAGTT	65
GCTATAA	112
GCTATAC	43
GCTATAG	83

GCTATAT	148
GCTATCA	40
GCTATCC	18
GCTATCG	22
GCTATCT	65
GCTATGA	58
GCTATGC	32
GCTATGG	58
GCTATGT	47
GCTATTA	51
GCTATTA	51
GCTATTC	51
GCTATTT	72
GCTCAAA	76
GCTCAAC	76
GCTCAAG	58
GCTCAAT	61
GCTCACA	65
GCTCACC	36
GCTCACG	65
GCTCACT	47
GCTCAGA	22
GCTCAGC	65
GCTCAGG	36
GCTCAGT	43
GCTCATA	40
GCTCATC	54
GCTCATG	83
GCTCATT	87
GCTCCAA	79
GCTCCAC	58
GCTCCAG	51
GCTCCAT	79
GCTCCCA	97
GCTCCCC	79
GCTCCCG	51
GCTCCCT	61
GCTCCGA	32
GCTCCGC	47
GCTCCGG	43
GCTCCGT	29
GCTCCTA	40
GCTCCTC	137
GCTCCTG	54
GCTCCTT	87
GCTCGAA	25
GCTCGAC	54
GCTCGAG	47
GCTCGAT	61
GCTCGCA	54
GCTCGCA	54
GCTCGCG	72

GCTCGCT	61
GCTCGGA	47
GCTCGGC	65
GCTCGGG	47
GCTCGGT	47
GCTCGTA	22
GCTCGTC	65
GCTCGTG	22
GCTCGTT	65
GCTCTAA	32
GCTCTAC	40
GCTCTAG	54
GCTCTAT	69
GCTCTCA	87
GCTCTCC	87
GCTCTCG	51
GCTCTCT	76
GCTCTGA	22
GCTCTGC	101
GCTCTGG	25
GCTCTGT	51
GCTCTTA	51
GCTCTTC	79
GCTCTTG	90
GCTCTTT	65
GCTGAAA	65
GCTGAAC	40
GCTGAAG	36
GCTGAAT	40
GCTGACA	40
GCTGACC	61
GCTGACG	40
GCTGACT	32
GCTGAGA	47
GCTGAGC	94
GCTGAGG	36
GCTGAGT	32
GCTGATA	32
GCTGATC	29
GCTGATG	51
GCTGATT	51
GCTGCAA	65
GCTGCAC	61
GCTGCAG	43
GCTGCAT	40
GCTGCCA	40
GCTGCCC	47
GCTGCCG	79
GCTGCCT	105
GCTGCGA	47
GCTGCGC	43
GCTGCGG	25

GCTGCGT	43
GCTGCTA	76
GCTGCTC	61
GCTGCTG	97
GCTGCTT	76
GCTGGAA	47
GCTGGAC	36
GCTGGAG	61
GCTGGAT	18
GCTGGCA	22
GCTGGCC	47
GCTGGCG	54
GCTGGCT	76
GCTGGGA	29
GCTGGGC	54
GCTGGGG	36
GCTGGGT	32
GCTGGTA	14
GCTGGTC	51
GCTGGTG	61
GCTGGTT	58
GCTGTAA	25
GCTGTAC	22
GCTGTAG	61
GCTGTAT	25
GCTGTCA	36
GCTGTCC	58
GCTGTCCG	25
GCTGTCT	36
GCTGTGA	54
GCTGTGC	61
GCTGTGG	54
GCTGTGT	58
GCTGTTA	43
GCTGTTC	43
GCTGTTG	47
GCTGTTT	51
GCTTAAA	87
GCTTAAC	47
GCTTAAG	36
GCTTAAT	47
GCTTACA	43
GCTTACC	14
GCTTACG	14
GCTTACT	25
GCTTAGA	32
GCTTAGC	32
GCTTAGG	32
GCTTAGT	22
GCTTATA	61
GCTTATC	43
GCTTATG	29

GCTTATT	54
GCTTCAA	51
GCTTCAC	51
GCTTCAG	51
GCTTCAT	40
GCTTCCA	47
GCTTCCC	65
GCTTCCG	47
GCTTCCT	97
GCTTCGA	40
GCTTCGC	32
GCTTCGG	47
GCTTCGT	61
GCTTCTA	65
GCTTCTC	87
GCTTCTG	76
GCTTCTT	108
GCTTGAA	40
GCTTGAC	40
GCTTGAG	69
GCTTGAT	54
GCTTGCA	65
GCTTGCC	51
GCTTGCG	65
GCTTGCT	61
GCTTGGA	69
GCTTGGC	43
GCTTGGG	14
GCTTGGT	54
GCTTGTA	69
GCTTGTC	79
GCTTGTG	61
GCTTGTT	155
GCTTTAA	65
GCTTTAC	25
GCTTTAG	43
GCTTTAT	72
GCTTTCA	51
GCTTTCC	83
GCTTTCG	32
GCTTTCT	105
GCTTTGA	72
GCTTTGC	65
GCTTTGG	72
GCTTTGT	101
GCTTTTA	65
GCTTTTC	90
GCTTTTG	115
GCTTTTT	123
GGAAAAA	152
GGAAAAC	90
GGAAAAG	94

GGAAAAT	72
GGAAACA	61
GGAAACC	61
GGAAACG	32
GGAAACT	61
GGAAAGA	54
GGAAAGC	72
GGAAAGG	79
GGAAAGT	72
GGAAATA	79
GGAAATC	47
GGAAATG	61
GGAAATT	54
GGAACAA	58
GGAACAC	36
GGAACAG	40
GGAACAT	29
GGAACCA	54
GGAACCC	47
GGAACCG	47
GGAACCT	36
GGAACGA	40
GGAACGC	29
GGAACGG	32
GGAACGT	14
GGAACTA	47
GGAACTC	36
GGAACTG	29
GGAACTT	40
GGAAGAA	133
GGAAGAC	72
GGAAGAG	97
GGAAGAT	58
GGAAGCA	65
GGAAGCC	69
GGAAGCG	29
GGAAGCT	47
GGAAGGA	69
GGAAGGC	54
GGAAGGG	36
GGAAGGT	51
GGAAGTA	32
GGAAGTC	25
GGAAGTG	47
GGAAGTT	61
GGAATAA	90
GGAATAC	11
GGAATAG	36
GGAATAT	18
GGAATCA	65
GGAATCC	29
GGAATCG	32

GGAATCT	36
GGAATGA	29
GGAATGG	65
GGAATGT	18
GGAATTA	36
GGAATTC	29
GGAATTG	65
GGAATTT	79
GGACAAA	65
GGACAAC	43
GGACAAG	40
GGACAAT	54
GGACACA	76
GGACACC	54
GGACACG	32
GGACACT	47
GGACAGA	47
GGACAGC	25
GGACAGG	54
GGACAGT	97
GGACATA	36
GGACATC	29
GGACATG	47
GGACATT	32
GGACCAA	47
GGACCAC	58
GGACCAG	54
GGACCAT	36
GGACCCA	32
GGACCCC	29
GGACCCG	47
GGACCCCT	36
GGACCGA	36
GGACCGC	32
GGACCGG	43
GGACCGT	51
GGACCTA	32
GGACCTC	22
GGACCTG	40
GGACCTT	58
GGACGAA	40
GGACGAC	65
GGACGAG	54
GGACGAT	32
GGACGCA	32
GGACGCC	51
GGACGCG	22
GGACGCT	32
GGACGGA	76
GGACGGC	40
GGACGGG	29
GGACGGT	155

GGACGTA	18
GGACGTC	18
GGACGTG	32
GGACGTT	40
GGACTAA	36
GGACTAC	18
GGACTAG	36
GGACTAT	51
GGACTCA	36
GGACTCC	43
GGACTCG	51
GGACTCT	51
GGACTGA	36
GGACTGC	65
GGACTGG	14
GGACTGT	97
GGACTTA	29
GGACTTC	54
GGACTTG	51
GGACTTT	43
GGAGAAA	90
GGAGAAC	32
GGAGAAG	79
GGAGAAT	51
GGAGACA	79
GGAGACC	29
GGAGACG	76
GGAGACT	32
GGAGAGA	115
GGAGAGC	97
GGAGAGG	130
GGAGAGT	61
GGAGATA	61
GGAGATC	32
GGAGATG	83
GGAGATT	32
GGAGCAA	97
GGAGCAC	58
GGAGCAG	36
GGAGCAT	43
GGAGCCA	83
GGAGCCC	29
GGAGCCG	36
GGAGCCT	72
GGAGCGA	36
GGAGCGC	22
GGAGCGG	65
GGAGCGT	32
GGAGCTA	65
GGAGCTC	83
GGAGCTG	90
GGAGCTT	54

GGAGGAA	108
GGAGGAC	65
GGAGGAG	180
GGAGGAT	65
GGAGGCA	83
GGAGGCC	54
GGAGGCG	54
GGAGGCT	61
GGAGGGA	97
GGAGGGC	54
GGAGGGG	76
GGAGGGT	25
GGAGGTA	32
GGAGGTC	61
GGAGGTG	83
GGAGGTT	65
GGAGTAA	51
GGAGTAC	36
GGAGTAG	69
GGAGTAT	65
GGAGTCA	29
GGAGTCC	25
GGAGTCG	36
GGAGTCT	36
GGAGTGA	72
GGAGTGC	32
GGAGTGG	47
GGAGTGT	32
GGAGTTA	40
GGAGTTC	43
GGAGTTG	79
GGAGTTT	72
GGATAAA	79
GGATAAC	36
GGATAAG	47
GGATAAT	43
GGATACA	54
GGATACC	22
GGATACG	32
GGATACT	29
GGATAGA	36
GGATAGC	18
GGATAGG	11
GGATAGT	51
GGATATA	58
GGATATC	29
GGATATG	47
GGATATT	54
GGATCAA	36
GGATCAC	65
GGATCAG	40
GGATCAT	51

GGATCCA	76
GGATCCC	61
GGATCCG	47
GGATCCT	51
GGATCGA	32
GGATCGC	25
GGATCGG	47
GGATCGT	18
GGATCTA	79
GGATCTC	40
GGATCTG	43
GGATCTT	58
GGATGAA	90
GGATGAC	47
GGATGAG	61
GGATGAT	51
GGATGCA	69
GGATGCC	32
GGATGCG	25
GGATGCT	32
GGATGGA	61
GGATGGC	61
GGATGGG	36
GGATGGT	61
GGATGTA	51
GGATGTA	51
GGATGTC	65
GGATGTG	58
GGATTAA	61
GGATTAC	51
GGATTAG	14
GGATTAT	76
GGATTCA	65
GGATTCC	51
GGATTCCG	47
GGATTCT	25
GGATTGA	72
GGATTGC	61
GGATTGG	87
GGATTGT	61
GGATTTA	29
GGATTTC	40
GGATTTG	101
GGATTTT	79
GGCAAAA	61
GGCAAAC	54
GGCAAAG	83
GGCAAAT	32
GGCAACA	51
GGCAACA	51
GGCAACC	69
GGCAACT	51

GGCAAGA	69
GGCAAGC	51
GGCAAGG	76
GGCAAGT	47
GGCAATA	18
GGCAATC	29
GGCAATG	47
GGCAATT	25
GGCACAA	43
GGCACAC	79
GGCACAG	61
GGCACAT	65
GGCACCA	40
GGCACCC	32
GGCACCG	72
GGCACCT	43
GGCACGA	36
GGCACGC	36
GGCACGG	61
GGCACGT	29
GGCACTA	29
GGCACTC	54
GGCACTG	43
GGCACTT	54
GGCAGAA	40
GGCAGAC	29
GGCAGAG	25
GGCAGAT	40
GGCAGCA	87
GGCAGCC	61
GGCAGCG	32
GGCAGCT	40
GGCAGGA	40
GGCAGGC	65
GGCAGGG	40
GGCAGGT	40
GGCAGTA	29
GGCAGTC	25
GGCAGTG	47
GGCAGTT	25
GGCATAA	43
GGCATAC	51
GGCATAG	22
GGCATAT	69
GGCATCA	72
GGCATCC	58
GGCATCG	40
GGCATCT	72
GGCATGA	54
GGCATGC	83
GGCATGG	58
GGCATGT	69

GGCATT	51
GGCATT	25
GGCATT	47
GGCATT	54
GGCCAAA	83
GGCCAAC	32
GGCCAAG	65
GGCCAAT	65
GGCCACA	90
GGCCACC	83
GGCCACG	83
GGCCACT	47
GGCCAGA	101
GGCCAGC	69
GGCCAGG	54
GGCCAGT	29
GGCCATA	51
GGCCATA	51
GGCCATG	61
GGCCATT	76
GGCCCAA	76
GGCCCAC	72
GGCCCAG	47
GGCCCAT	69
GGCCCCA	54
GGCCCCC	54
GGCCCCG	47
GGCCCCT	29
GGCCCGA	36
GGCCCGC	54
GGCCCGG	90
GGCCCGT	43
GGCCCTA	43
GGCCCTC	36
GGCCCTG	36
GGCCCTT	47
GGCCGAA	51
GGCCGAC	36
GGCCGAG	43
GGCCGAT	14
GGCCGCA	36
GGCCGCC	87
GGCCGCG	61
GGCCGCT	18
GGCCGGA	90
GGCCGGC	115
GGCCGGG	79
GGCCGGT	36
GGCCGTA	25
GGCCGTC	29
GGCCGTG	69
GGCCGTT	36

GGCCTAA	54
GGCCTAC	25
GGCCTAG	36
GGCCTAT	22
GGCCTCA	29
GGCCTCC	36
GGCCTCG	47
GGCCTCT	32
GGCCTGA	43
GGCCTGC	65
GGCCTGG	58
GGCCTGT	54
GGCCTTA	18
GGCCTTC	54
GGCCTTG	69
GGCCTTT	51
GGCGAAA	47
GGCGAAC	29
GGCGAAG	65
GGCGAAT	11
GGCGACA	29
GGCGACC	47
GGCGACG	43
GGCGACT	32
GGCGAGA	54
GGCGAGC	22
GGCGAGG	76
GGCGAGT	43
GGCGATA	7
GGCGATC	36
GGCGATG	32
GGCGATT	29
GGCGCAA	36
GGCGCAC	47
GGCGCAG	54
GGCGCAT	25
GGCGCCA	87
GGCGCCC	47
GGCGCCG	47
GGCGCCT	58
GGCGCGA	25
GGCGCGC	76
GGCGCGG	54
GGCGCGT	40
GGCGCTA	36
GGCGCTC	18
GGCGCTG	51
GGCGCTT	18
GGCGGAA	11
GGCGGAC	25
GGCGGAG	112
GGCGGAT	36

GGCGGCA	76
GGCGGCC	65
GGCGGCG	94
GGCGGCT	47
GGCGGGA	11
GGCGGGC	58
GGCGGGG	43
GGCGGGT	43
GGCGGTA	40
GGCGGTC	40
GGCGGTG	87
GGCGGTT	14
GGCGTAA	11
GGCGTAA	11
GGCGTAC	43
GGCGTAG	14
GGCGTCA	51
GGCGTCC	43
GGCGTCG	51
GGCGTCT	36
GGCGTGA	25
GGCGTGC	61
GGCGTGG	51
GGCGTGT	36
GGCGTTA	4
GGCGTTC	18
GGCGTTG	14
GGCGTTT	36
GGCTAAA	76
GGCTAAC	36
GGCTAAG	29
GGCTAAT	40
GGCTACA	40
GGCTACC	29
GGCTACG	29
GGCTACT	47
GGCTAGA	47
GGCTAGC	83
GGCTAGG	61
GGCTAGT	32
GGCTATA	90
GGCTATC	40
GGCTATG	36
GGCTATT	25
GGCTCAA	54
GGCTCAC	69
GGCTCAG	36
GGCTCAT	40
GGCTCCA	58
GGCTCCC	61
GGCTCCG	36
GGCTCCT	51

GGCTCGA	51
GGCTCGC	47
GGCTCGG	61
GGCTCGT	32
GGCTCTA	47
GGCTCTC	61
GGCTCTG	47
GGCTCTT	58
GGCTGAA	36
GGCTGAC	54
GGCTGAG	58
GGCTGAT	40
GGCTGCA	58
GGCTGCC	65
GGCTGCG	47
GGCTGCT	83
GGCTGGA	47
GGCTGGC	51
GGCTGGG	14
GGCTGGT	32
GGCTGTA	18
GGCTGTC	32
GGCTGTG	76
GGCTGTT	47
GGCTTAA	51
GGCTTAC	18
GGCTTAG	25
GGCTTAT	36
GGCTTCA	47
GGCTTCC	32
GGCTTCG	51
GGCTTCT	65
GGCTTGA	18
GGCTTGC	65
GGCTTGG	51
GGCTTGT	69
GGCTTTA	32
GGCTTTC	51
GGCTTTG	76
GGCTTTT	72
GGGAAAA	101
GGGAAAC	29
GGGAAAG	54
GGGAAAT	61
GGGAACA	32
GGGAACA	32
GGGAACC	22
GGGAACG	32
GGGAAGA	94
GGGAAGC	61
GGGAAGG	43
GGGAAGT	29

GGGAATA	29
GGGAATC	36
GGGAATG	14
GGGAATT	51
GGGACAA	32
GGGACAC	61
GGGACAG	36
GGGACAT	25
GGGACCA	40
GGGACCC	36
GGGACCG	36
GGGACCT	22
GGGACGA	43
GGGACGC	47
GGGACGG	40
GGGACGT	14
GGGACTA	43
GGGACTC	25
GGGACTG	25
GGGACTT	32
GGGAGAA	54
GGGAGAC	36
GGGAGAG	137
GGGAGAT	54
GGGAGCA	36
GGGAGCC	43
GGGAGCG	43
GGGAGCT	47
GGGAGGA	79
GGGAGGC	40
GGGAGGG	72
GGGAGGT	76
GGGAGTA	54
GGGAGTC	18
GGGAGTG	43
GGGAGTT	54
GGGATAA	58
GGGATAC	18
GGGATAG	25
GGGATAT	32
GGGATCA	18
GGGATCC	22
GGGATCG	18
GGGATCT	51
GGGATGA	43
GGGATGC	29
GGGATGG	25
GGGATGT	22
GGGATTA	29
GGGATTC	58
GGGATTG	76
GGGATTT	40

GGGCAA	40
GGGCAAC	65
GGGCAAG	69
GGGCAAT	14
GGGCACA	32
GGGCACC	51
GGGCACG	40
GGGCACT	29
GGGCAGA	36
GGGCAGC	40
GGGCAGG	40
GGGCAGT	36
GGGCATA	25
GGGCATA	25
GGGCATC	36
GGGCATT	25
GGGCCAA	65
GGGCCAC	72
GGGCCAG	76
GGGCCAT	32
GGGCCCA	94
GGGCCCC	61
GGGCCCG	58
GGGCCCT	36
GGGCCGA	43
GGGCCGC	32
GGGCCGG	94
GGGCCGT	22
GGGCCTA	36
GGGCCTC	29
GGGCCTG	58
GGGCCTT	40
GGGCGAA	43
GGGCGAC	51
GGGCGAG	76
GGGCGAT	14
GGGCGCA	25
GGGCGCC	54
GGGCGCG	51
GGGCGCT	11
GGGCGGA	54
GGGCGGC	72
GGGCGGG	40
GGGCGGT	40
GGGCGTA	11
GGGCGTC	40
GGGCGTG	32
GGGCGTT	4
GGGCTAA	54
GGGCTAC	22
GGGCTAG	69
GGGCTAT	22

GGGCTCA	36
GGGCTCC	40
GGGCTCG	54
GGGCTCT	43
GGGCTGA	54
GGGCTGC	58
GGGCTGG	43
GGGCTGT	14
GGGCTTA	40
GGGCTTC	43
GGGCTTG	40
GGGCTTT	51
GGGGAAA	54
GGGGAAC	25
GGGGAAG	65
GGGGAAT	25
GGGGACA	32
GGGGACC	36
GGGGACG	36
GGGGACT	29
GGGGAGA	94
GGGGAGC	43
GGGGAGG	119
GGGGAGT	51
GGGGATA	40
GGGGATC	29
GGGGATG	32
GGGGATT	58
GGGGCAA	40
GGGGCAC	47
GGGGCAG	47
GGGGCAT	18
GGGGCCA	43
GGGGCCC	61
GGGGCCG	29
GGGGCCT	47
GGGGCGA	51
GGGGCGC	47
GGGGCGG	58
GGGGCGT	18
GGGGCTA	36
GGGGCTC	36
GGGGCTG	32
GGGGCTT	25
GGGGGAA	51
GGGGGAC	14
GGGGGAG	141
GGGGGAT	36
GGGGGCA	51
GGGGGCC	65
GGGGGCG	47
GGGGGCT	18

GGGGGGA	79
GGGGGGC	58
GGGGGGG	119
GGGGGGT	51
GGGGGTA	22
GGGGGTC	54
GGGGGTG	87
GGGGGTT	29
GGGGTAA	51
GGGGTAC	25
GGGGTAG	29
GGGGTAT	36
GGGGTCA	32
GGGGTCC	47
GGGGTCG	54
GGGGTCT	43
GGGGTGA	76
GGGGTGC	43
GGGGTGG	61
GGGGTGT	36
GGGGTTA	40
GGGGTTC	32
GGGGTTG	51
GGGGTTT	54
GGGTAAA	43
GGGTAAAC	47
GGGTAAAG	32
GGGTAAAT	29
GGGTACA	36
GGGTACC	54
GGGTACG	11
GGGTACT	11
GGGTAGA	22
GGGTAGC	32
GGGTAGG	22
GGGTAGT	22
GGGTATA	29
GGGTATC	40
GGGTATG	14
GGGTATT	58
GGGTCAA	22
GGGTCAC	32
GGGTCAG	18
GGGTCAT	43
GGGTCCA	22
GGGTCCA	22
GGGTCCG	22
GGGTCCT	32
GGGTCGA	36
GGGTCGC	25
GGGTCGG	61
GGGTCGT	51

GGGTCTA	43
GGGTCTC	40
GGGTCTG	32
GGGTCTT	43
GGGTGAA	54
GGGTGAC	51
GGGTGAG	61
GGGTGAT	65
GGGTGCA	65
GGGTGCC	22
GGGTGCG	43
GGGTGCT	51
GGGTGGA	40
GGGTGGC	29
GGGTGGG	72
GGGTGGT	36
GGGTGTA	54
GGGTGTC	54
GGGTGTG	58
GGGTGTT	58
GGGTTAA	43
GGGTTAC	22
GGGTTAG	25
GGGTTAT	58
GGGTTCA	51
GGGTTC	22
GGGTTCG	25
GGGTTCT	29
GGGTTGA	36
GGGTTGC	43
GGGTTGG	54
GGGTTGT	69
GGGTTTA	51
GGGTTTC	40
GGGTTTG	69
GGGTTTT	69
GGTAAAA	94
GGTAAAC	36
GGTAAAG	79
GGTAAAT	36
GGTAACA	40
GGTAACC	32
GGTAACG	14
GGTAACT	25
GGTAAGA	32
GGTAAGC	14
GGTAAGG	25
GGTAAGT	47
GGTAATA	25
GGTAATC	4
GGTAATG	72
GGTAATT	54

GGTACAA	47
GGTACAC	18
GGTACAG	22
GGTACAT	58
GGTACCA	54
GGTACCC	61
GGTACCG	32
GGTACCT	29
GGTACGA	25
GGTACGC	4
GGTACGG	40
GGTACGT	25
GGTACTA	32
GGTACTC	18
GGTACTG	22
GGTACTT	14
GGTAGAA	54
GGTAGAC	32
GGTAGAG	40
GGTAGAT	22
GGTAGCA	43
GGTAGCC	29
GGTAGCG	11
GGTAGCT	54
GGTAGGA	40
GGTAGGC	14
GGTAGGG	32
GGTAGGT	25
GGTAGTA	29
GGTAGTC	18
GGTAGTG	32
GGTAGTT	18
GGTATAA	43
GGTATAC	36
GGTATAG	25
GGTATAT	54
GGTATCA	43
GGTATCC	51
GGTATCG	18
GGTATCT	43
GGTATGA	47
GGTATGA	47
GGTATGC	22
GGTATGT	61
GGTATTA	54
GGTATTC	76
GGTATTG	43
GGTATTT	65
GGTCAAA	43
GGTCAAC	40
GGTCAAG	22
GGTCAAT	29

GGTCACA	36
GGTCACC	54
GGTCACG	11
GGTCACT	69
GGTCAGA	36
GGTCAGC	36
GGTCAGG	32
GGTCAGT	54
GGTCATA	29
GGTCATC	58
GGTCATG	54
GGTCATT	47
GGTCCAA	36
GGTCCAC	40
GGTCCAG	69
GGTCCAT	40
GGTCCCA	54
GGTCCCC	40
GGTCCCG	22
GGTCCCT	72
GGTCCGA	36
GGTCCGC	105
GGTCCGG	94
GGTCCGT	40
GGTCCTA	7
GGTCCTC	43
GGTCCTG	40
GGTCCTT	76
GGTCGAA	29
GGTCGAA	29
GGTCGAG	69
GGTCGAT	29
GGTCGCA	7
GGTCGCC	69
GGTCGCG	40
GGTCGCT	40
GGTCGGA	47
GGTCGGC	40
GGTCGGG	61
GGTCGGT	32
GGTCGTA	29
GGTCGTC	72
GGTCGTG	76
GGTCGTT	40
GGTCTAA	29
GGTCTAC	47
GGTCTAG	43
GGTCTAT	25
GGTCTCA	40
GGTCTCC	58
GGTCTCG	36
GGTCTCT	69

GGTCTGA	25
GGTCTGC	51
GGTCTGG	54
GGTCTGT	51
GGTCTTA	40
GGTCTTC	36
GGTCTTG	43
GGTCTTT	87
GGTGAAA	43
GGTGAAC	47
GGTGAAG	94
GGTGAAT	79
GGTGACA	51
GGTGACC	43
GGTGACG	61
GGTGACTION	32
GGTGAGA	58
GGTGAGC	72
GGTGAGG	36
GGTGAGT	61
GGTGATA	36
GGTGATC	61
GGTGATG	83
GGTGATT	76
GGTGCAA	65
GGTGCAC	101
GGTGCAG	65
GGTGCAT	83
GGTGCCA	51
GGTGCCC	43
GGTGCCG	22
GGTGCCT	40
GGTGCGA	22
GGTGCGC	76
GGTGCGG	58
GGTGCGT	25
GGTGCTA	36
GGTGCTC	61
GGTGCTG	36
GGTGCTT	69
GGTGCAA	54
GGTGGAC	43
GGTGGAG	76
GGTGGAT	54
GGTGGCA	83
GGTGGCC	51
GGTGGCG	87
GGTGGCT	43
GGTGGGA	40
GGTGGGC	72
GGTGGGG	79
GGTGGGT	54

GGTGGTA	65
GGTGGTC	58
GGTGGTG	137
GGTGGTT	83
GGTGTA	61
GGTGTA	61
GGTGTA	69
GGTGTA	36
GGTGTA	54
GGTGTA	36
GGTGTA	58
GGTGTA	65
GGTGTA	47
GGTGTA	72
GGTGTA	65
GGTGTA	54
GGTGTA	36
GGTGTA	47
GGTGTA	54
GGTGTA	87
GGTAAA	65
GGTAA	25
GGTAA	25
GGTAA	29
GGTAA	40
GGTAA	36
GGTAA	7
GGTAA	25
GGTAA	51
GGTAA	43
GGTAA	47
GGTAA	29
GGTAA	61
GGTAA	36
GGTAA	47
GGTAA	51
GGTAA	40
GGTAA	47
GGTAA	51
GGTAA	29
GGTAA	54
GGTAA	25
GGTAA	29
GGTAA	43
GGTAA	25
GGTAA	22
GGTAA	40
GGTAA	51
GGTAA	61
GGTAA	18
GGTAA	40
GGTAA	115

GGTTGAA	69
GGTTGAC	18
GGTTGAG	51
GGTTGAT	58
GGTTGCA	51
GGTTGCC	47
GGTTGCG	25
GGTTGCT	72
GGTTGGA	72
GGTTGGC	43
GGTTGGG	72
GGTTGGT	72
GGTTGTA	54
GGTTGTC	51
GGTTGTG	79
GGTTGTT	87
GGTTTAA	76
GGTTTAC	43
GGTTTAG	47
GGTTTAT	65
GGTTTCA	69
GGTTTCC	76
GGTTTCG	40
GGTTTCT	79
GGTTTGA	69
GGTTTGC	65
GGTTTGG	105
GGTTTGT	105
GGTTTTA	97
GGTTTTC	87
GGTTTTG	101
GGTTTTT	101
GTAAAAA	166
GTAAAAC	79
GTAAAAG	36
GTAAAAT	119
GTAAACA	94
GTAAACC	43
GTAAACG	11
GTAAACT	43
GTAAAGA	69
GTAAAGC	51
GTAAAGG	51
GTAAAGT	58
GTAAATA	94
GTAAATC	58
GTAAATG	61
GTAAATT	79
GTAACAA	58
GTAACAC	29
GTAACAG	43
GTAACAT	47

GTAACCA	43
GTAACCC	25
GTAACCG	14
GTAACCT	7
GTAACGA	29
GTAACGC	14
GTAACGG	36
GTAACGT	29
GTAACTA	36
GTAACTC	47
GTAACTG	22
GTAACTT	51
GTAAGAA	51
GTAAGAC	43
GTAAGAG	43
GTAAGAT	43
GTAAGCA	25
GTAAGCC	22
GTAAGCG	22
GTAAGCT	22
GTAAGGA	25
GTAAGGC	11
GTAAGGG	58
GTAAGGT	36
GTAAGTA	47
GTAAGTC	29
GTAAGTG	43
GTAAGTT	25
GTAATAA	72
GTAATAC	54
GTAATAG	58
GTAATAT	61
GTAATCA	25
GTAATCC	25
GTAATCG	29
GTAATCT	43
GTAATGA	61
GTAATGC	54
GTAATGG	29
GTAATGT	65
GTAATTA	43
GTAATTA	43
GTAATTC	29
GTAATTG	58
GTACAAA	51
GTACAAC	61
GTACAAG	29
GTACAAT	43
GTACACA	36
GTACACC	54
GTACACG	32
GTACACT	43

GTACAGA	54
GTACAGC	29
GTACAGG	29
GTACAGT	22
GTACATA	43
GTACATC	43
GTACATG	119
GTACATT	61
GTACCAA	83
GTACCAC	40
GTACCAG	43
GTACCAT	36
GTACCCA	65
GTACCCC	54
GTACCCG	14
GTACCCT	32
GTACCGA	18
GTACCGC	14
GTACCGG	25
GTACCGT	40
GTACCTA	29
GTACCTC	22
GTACCTG	43
GTACCTT	43
GTACGAA	22
GTACGAC	32
GTACGAG	22
GTACGAT	32
GTACGCA	18
GTACGCA	18
GTACGCC	29
GTACGCT	14
GTACGGA	22
GTACGGC	29
GTACGGG	14
GTACGGT	32
GTACGTA	112
GTACGTC	25
GTACGTG	101
GTACGTT	32
GTAATA	43
GTAATA	61
GTAATA	65
GTAATA	29
GTAATA	36
GTAATA	51
GTAATA	36
GTAATA	43
GTAATA	43
GTAATA	58
GTAATA	25
GTAATA	54

GTA	22
GTA	29
GTA	47
GTA	43
GTA	133
GTA	43
GTA	40
GTA	54
GTA	36
GTA	29
GTA	25
GTA	43
GTA	76
GTA	51
GTA	40
GTA	40
GTA	29
GTA	54
GTA	54
GTA	65
GTA	65
GTA	32
GTA	54
GTA	54
GTA	58
GTA	32
GTA	29
GTA	51
GTA	4
GTA	14
GTA	36
GTA	18
GTA	76
GTA	29
GTA	58
GTA	61
GTA	83
GTA	22
GTA	32
GTA	43
GTA	43
GTA	36
GTA	18
GTA	14
GTA	36
GTA	36
GTA	54
GTA	47
GTA	22
GTA	14
GTA	32
GTA	36

GTAGTAA	32
GTAGTAC	40
GTAGTAG	69
GTAGTAT	40
GTAGTCA	22
GTAGTCC	40
GTAGTCG	7
GTAGTCT	36
GTAGTGA	54
GTAGTGC	51
GTAGTGG	79
GTAGTGT	94
GTAGTTA	40
GTAGTTC	29
GTAGTTG	43
GTAGTTT	47
GTATAAA	126
GTATAAC	36
GTATAAG	51
GTATAAT	83
GTATACA	72
GTATACC	40
GTATACG	14
GTATACT	43
GTATAGA	58
GTATAGC	43
GTATAGG	14
GTATAGT	58
GTATATA	155
GTATATC	54
GTATATG	72
GTATATT	97
GTATCAA	69
GTATCAC	58
GTATCAG	40
GTATCAT	22
GTATCCA	61
GTATCCC	29
GTATCCG	29
GTATCCT	36
GTATCGA	14
GTATCGC	11
GTATCGG	7
GTATCGT	29
GTATCTA	58
GTATCTC	32
GTATCTG	43
GTATCTT	54
GTATGAA	58
GTATGAC	18
GTATGAG	40
GTATGAT	61

GTATGCA	43
GTATGCC	18
GTATGCG	18
GTATGCT	29
GTATGGA	25
GTATGGC	32
GTATGGG	29
GTATGGT	61
GTATGTA	79
GTATGTA	79
GTATGTG	65
GTATGTT	79
GTATTAA	79
GTATTAC	47
GTATTAG	43
GTATTAT	87
GTATTCA	76
GTATTCC	79
GTATTCG	7
GTATTCT	72
GTATTGA	47
GTATTGC	22
GTATTGG	43
GTATTGT	47
GTATTTA	119
GTATTTTC	97
GTATTTTG	58
GTATTTT	130
GTCAAAA	65
GTCAAAC	87
GTCAAAG	69
GTCAAAT	47
GTCAACA	69
GTCAACC	18
GTCAACG	40
GTCAACT	36
GTCAAGA	32
GTCAAGC	40
GTCAAGG	36
GTCAAGT	32
GTCAATA	58
GTCAATC	25
GTCAATG	36
GTCAATT	54
GTCACAA	47
GTCACAC	69
GTCACAG	40
GTCACAT	54
GTCACCA	58
GTCACCC	76
GTCACCG	58
GTCACCT	58

GTCACGA	22
GTCACGC	32
GTCACGG	18
GTCACGT	25
GTCACTA	25
GTCACTC	51
GTCACTG	76
GTCACTT	69
GTCAGAA	29
GTCAGAC	25
GTCAGAG	43
GTCAGAT	51
GTCAGCA	61
GTCAGCC	47
GTCAGCG	36
GTCAGCT	43
GTCAGGA	22
GTCAGGC	40
GTCAGGG	29
GTCAGGT	25
GTCAGTA	22
GTCAGTC	69
GTCAGTG	69
GTCAGTT	43
GTCATAA	54
GTCATAC	29
GTCATAG	18
GTCATAT	69
GTCATCA	36
GTCATCC	51
GTCATCG	36
GTCATCT	76
GTCATGA	51
GTCATGC	83
GTCATGG	36
GTCATGT	69
GTCATTA	47
GTCATTC	18
GTCATTG	43
GTCATTT	97
GTCCAAA	54
GTCCAAC	58
GTCCAAG	79
GTCCAAT	54
GTCCACA	43
GTCCACC	83
GTCCACG	54
GTCCACT	43
GTCCAGA	54
GTCCAGC	65
GTCCAGG	22
GTCCAGT	32

GTCCATA	58
GTCCATC	47
GTCCATG	54
GTCCATT	87
GTCCCAA	65
GTCCCAA	65
GTCCCAC	51
GTCCCAG	29
GTCCCCA	54
GTCCCCC	32
GTCCCCG	43
GTCCCCT	40
GTCCCGA	18
GTCCCGC	25
GTCCCGG	11
GTCCCGT	40
GTCCCTA	76
GTCCCTC	43
GTCCCTG	32
GTCCCTT	61
GTCCGAA	40
GTCCGAC	18
GTCCGAG	61
GTCCGAT	40
GTCCGCA	36
GTCCGCC	79
GTCCGCG	105
GTCCGCT	58
GTCCGGA	51
GTCCGGC	76
GTCCGGG	32
GTCCGGT	227
GTCCGTA	18
GTCCGTC	40
GTCCGTG	51
GTCCGTT	40
GTCCCTAA	51
GTCCCTAC	11
GTCCCTAG	7
GTCCCTAT	25
GTCCCTCA	29
GTCCCTCC	79
GTCCCTCG	40
GTCCCTCT	58
GTCCCTGA	32
GTCCCTGC	72
GTCCCTGG	32
GTCCCTGT	32
GTCCCTTA	43
GTCCCTTC	51
GTCCCTTG	87
GTCCCTTT	47

GTCGAAA	25
GTCGAAC	25
GTCGAAG	36
GTCGAAT	29
GTCGACA	47
GTCGACC	69
GTCGACG	79
GTCGACT	43
GTCGAGA	40
GTCGAGC	58
GTCGAGG	58
GTCGAGT	43
GTCGATA	18
GTCGATC	61
GTCGATG	43
GTCGATT	40
GTCGCAA	32
GTCGCAC	18
GTCGCAG	29
GTCGCAT	29
GTCGCCA	58
GTCGCCC	32
GTCGCCG	43
GTCGCCT	65
GTCGCGA	18
GTCGCGC	43
GTCGCGG	32
GTCGCGT	58
GTCGCTA	43
GTCGCTC	40
GTCGCTG	25
GTCGCTT	25
GTCGGAA	18
GTCGGAC	43
GTCGGAG	40
GTCGGAT	25
GTCGGCA	25
GTCGGCC	58
GTCGGCG	51
GTCGGCT	43
GTCGGGA	14
GTCGGGC	83
GTCGGGG	40
GTCGGGT	11
GTCGGTA	22
GTCGGTC	36
GTCGGTG	43
GTCGGTT	29
GTCGTAA	14
GTCGTAA	14
GTCGTAG	43
GTCGTAT	25

GTCGTCA	47
GTCGTCC	94
GTCGTCCG	133
GTCGTCT	79
GTCGTGA	25
GTCGTGC	40
GTCGTGG	47
GTCGTGT	83
GTCGTTA	29
GTCGTTC	25
GTCGTTG	51
GTCGTTT	43
GTCTAAA	51
GTCTAAC	29
GTCTAAG	40
GTCTAAT	40
GTCTACA	47
GTCTACC	25
GTCTACG	22
GTCTACT	47
GTCTAGA	87
GTCTAGC	29
GTCTAGG	32
GTCTAGT	40
GTCTATA	83
GTCTATC	29
GTCTATG	40
GTCTATT	72
GTCTCAA	40
GTCTCAC	51
GTCTCAG	36
GTCTCAT	47
GTCTCCA	29
GTCTCCC	61
GTCTCCG	43
GTCTCCT	72
GTCTCGA	65
GTCTCGA	65
GTCTCGC	40
GTCTCGT	47
GTCTCTA	101
GTCTCTC	90
GTCTCTG	47
GTCTCTT	133
GTCTGAA	36
GTCTGAC	22
GTCTGAG	40
GTCTGAT	29
GTCTGCA	43
GTCTGCC	32
GTCTGCG	69
GTCTGCT	69

GTCTGGA	29
GTCTGGC	43
GTCTGGG	47
GTCTGGT	51
GTCTGTA	32
GTCTGTC	40
GTCTGTG	32
GTCTGTT	83
GTCTTAA	43
GTCTTAC	29
GTCTTAG	58
GTCTTAT	36
GTCTTCA	47
GTCTTCC	94
GTCTTCG	61
GTCTTCT	69
GTCTTGA	43
GTCTTGC	54
GTCTTGG	65
GTCTTGT	97
GTCTTTA	58
GTCTTTC	69
GTCTTTG	144
GTCTTTT	112
GTGAAAA	87
GTGAAAC	43
GTGAAAG	29
GTGAAAT	51
GTGAACA	65
GTGAACA	65
GTGAACG	29
GTGAACT	72
GTGAAGA	97
GTGAAGC	76
GTGAAGG	51
GTGAAGT	65
GTGAATA	65
GTGAATC	72
GTGAATG	58
GTGAATT	90
GTGACAA	97
GTGACAC	47
GTGACAG	40
GTGACAT	54
GTGACCA	69
GTGACCC	25
GTGACCG	11
GTGACCT	29
GTGACGA	54
GTGACGC	22
GTGACGG	43
GTGACGT	40

GTGACTA	58
GTGACTC	18
GTGACTG	61
GTGACTT	32
GTGAGAA	58
GTGAGAC	40
GTGAGAG	83
GTGAGAT	76
GTGAGCA	51
GTGAGCC	65
GTGAGCG	36
GTGAGCT	61
GTGAGGA	51
GTGAGGC	32
GTGAGGG	22
GTGAGGT	36
GTGAGTA	29
GTGAGTC	11
GTGAGTG	76
GTGAGTT	94
GTGATAA	51
GTGATAC	47
GTGATAG	51
GTGATAT	51
GTGATCA	61
GTGATCC	36
GTGATCG	43
GTGATCT	51
GTGATGA	112
GTGATGC	40
GTGATGG	94
GTGATGT	83
GTGATTA	51
GTGATTC	36
GTGATTG	69
GTGATTT	133
GTGCAAA	105
GTGCAAC	90
GTGCAAG	76
GTGCAAT	32
GTGCACA	65
GTGCACC	115
GTGCACG	40
GTGCACT	58
GTGCAGA	51
GTGCAGC	58
GTGCAGG	83
GTGCAGT	65
GTGCATA	72
GTGCATC	54
GTGCATG	123
GTGCATT	112

GTGCCAA	69
GTGCCAC	40
GTGCCAG	69
GTGCCAT	69
GTGCCA	40
GTGCCCC	36
GTGCCCG	29
GTGCCCT	72
GTGCCGA	4
GTCCGC	47
GTCCGG	51
GTCCGT	43
GTCCCTA	36
GTCCCTC	51
GTCCCTG	61
GTCCCTT	51
GTCCGAA	29
GTCCGAC	25
GTCCGAG	43
GTCCGAT	25
GTCCGCA	47
GTCCGCC	79
GTCCGCG	58
GTCCGCT	32
GTCCGGA	32
GTCCGGC	76
GTCCGGG	43
GTCCGGT	43
GTCCGTA	14
GTCCGTC	25
GTCCGTG	83
GTCCGTT	40
GTCTAA	76
GTCTAC	58
GTCTAG	61
GTCTAT	65
GTCTCA	76
GTCTCC	40
GTCTCG	43
GTCTCT	101
GTCTGA	40
GTCTGC	40
GTCTGG	40
GTCTGT	43
GTCTTA	69
GTCTTC	61
GTCTTG	87
GTCTTT	61
GTGAAA	47
GTGGAAC	36
GTGGAAG	76
GTGGAAT	54

GTGGACA	51
GTGGACC	51
GTGGACG	47
GTGGACT	58
GTGGAGA	112
GTGGAGC	65
GTGGAGG	79
GTGGAGT	51
GTGGATA	36
GTGGATC	54
GTGGATG	108
GTGGATT	51
GTGGCAA	32
GTGGCAC	83
GTGGCAG	40
GTGGCAT	94
GTGGCCA	76
GTGGCCC	54
GTGGCCG	47
GTGGCCT	69
GTGGCGA	36
GTGGCGC	72
GTGGCGG	72
GTGGCGT	51
GTGGCTA	58
GTGGCTC	51
GTGGCTG	54
GTGGCTT	43
GTGGGAA	54
GTGGGAC	22
GTGGGAG	51
GTGGGAT	29
GTGGGCA	36
GTGGGCC	61
GTGGGCG	43
GTGGGCT	32
GTGGGGA	47
GTGGGGC	51
GTGGGGG	69
GTGGGGT	69
GTGGGTA	29
GTGGGTC	32
GTGGGTG	61
GTGGGTT	76
GTGGTAA	25
GTGGTAA	25
GTGGTAC	43
GTGGTAT	87
GTGGTCA	51
GTGGTCC	58
GTGGTCG	40
GTGGTCT	40

GTGGTGA	76
GTGGTGC	97
GTGGTGG	144
GTGGTGT	72
GTGGTTA	36
GTGGTTC	58
GTGGTTG	94
GTGGTTT	83
GTGTAAG	40
GTGTAAC	36
GTGTAAT	58
GTGTACA	69
GTGTACC	43
GTGTACG	69
GTGTACT	54
GTGTAGA	69
GTGTAGC	58
GTGTAGG	43
GTGTAGT	69
GTGTATA	79
GTGTATC	32
GTGTATG	79
GTGTATT	51
GTGTCAA	76
GTGTCAC	69
GTGTCAG	40
GTGTCAT	72
GTGTCCA	47
GTGTCCC	32
GTGTCCG	72
GTGTCCT	25
GTGTCGA	36
GTGTCGA	36
GTGTCGC	47
GTGTCGG	61
GTGTCTA	72
GTGTCTC	108
GTGTCTG	47
GTGTCTT	72
GTGTGAA	36
GTGTGAC	51
GTGTGAG	51
GTGTGAT	76
GTGTGCA	108
GTGTGCC	40
GTGTGCG	69
GTGTGCT	54
GTGTGGA	65
GTGTGGC	87
GTGTGGG	36
GTGTGGT	65

GTGTGTA	83
GTGTGTC	72
GTGTGTG	87
GTGTGTT	83
GTGTTAA	47
GTGTTAC	54
GTGTTAG	54
GTGTTAT	54
GTGTTCA	79
GTGTTCC	47
GTGTTCCG	32
GTGTTCT	83
GTGTTGA	76
GTGTTGC	97
GTGTTGG	72
GTGTTGT	126
GTGTTTA	54
GTGTTTC	76
GTGTTTG	115
GTGTTTT	130
GTTAAAA	87
GTTAAAC	47
GTTAAAG	58
GTTAAAT	72
GTTAACA	40
GTTAACC	32
GTTAACG	22
GTTAACT	18
GTTAAGA	47
GTTAAGC	11
GTTAAGG	32
GTTAAGT	47
GTTAATA	54
GTTAATC	43
GTTAATG	72
GTTAATT	79
GTTACAA	61
GTTACAC	32
GTTACAG	36
GTTACAT	54
GTTACCA	18
GTTACCC	65
GTTACCG	25
GTTACCT	14
GTTACGA	22
GTTACGC	7
GTTACGG	22
GTTACGT	32
GTTACTA	43
GTTACTC	29
GTTACTG	47
GTTACTT	43

GTTAGAA	29
GTTAGAC	54
GTTAGAG	29
GTTAGAT	65
GTTAGCA	51
GTTAGCC	36
GTTAGCG	36
GTTAGCT	61
GTTAGGA	36
GTTAGGC	32
GTTAGGG	40
GTTAGGT	54
GTTAGTA	54
GTTAGTC	69
GTTAGTG	43
GTTAGTT	65
GTTATAA	47
GTTATAC	22
GTTATAG	58
GTTATAT	94
GTTATCA	40
GTTATCC	32
GTTATCG	43
GTTATCT	72
GTTATGA	36
GTTATGC	43
GTTATGG	36
GTTATGT	72
GTTATTA	69
GTTATTC	36
GTTATTG	61
GTTATTT	108
GTTCAAA	72
GTTCAAC	36
GTTCAAG	58
GTTCAAT	58
GTTCACA	58
GTTCACC	65
GTTCACG	32
GTTCACT	58
GTTCAGA	51
GTTCAGC	32
GTTCAGG	32
GTTCAGT	58
GTTCATA	54
GTTCATC	94
GTTCATG	97
GTTCATT	69
GTTCCAA	72
GTTCCAC	40
GTTCCAG	51
GTTCCAT	51

GTTCCCA	40
GTTCCCC	43
GTTCCCG	22
GTTCCCT	43
GTTCCGA	22
GTTCCGC	32
GTTCCGG	22
GTTCCGT	18
GTTCCTA	58
GTTCCTC	29
GTTCCTG	29
GTTCCTT	97
GTTCGAA	36
GTTCGAC	14
GTTCGAG	40
GTTCGAT	58
GTTCGCA	22
GTTCGCA	22
GTTCGCC	58
GTTCGCG	7
GTTCGGA	25
GTTCGGC	32
GTTCGGG	14
GTTCGGT	61
GTTCGTA	18
GTTCGTC	69
GTTCGTG	79
GTTCGTT	79
GTTCTAA	51
GTTCTAC	54
GTTCTAG	69
GTTCTAT	61
GTTCTCA	61
GTTCTCC	54
GTTCTCG	22
GTTCTCT	83
GTTCTGA	40
GTTCTGC	36
GTTCTGG	40
GTTCTGT	54
GTTCTTA	94
GTTCTTC	87
GTTCTTG	90
GTTCTTT	101
GTTGAAA	87
GTTGAAC	36
GTTGAAG	47
GTTGAAT	72
GTTGACA	76
GTTGACC	18
GTTGACG	36
GTTGACT	51

GTTGAGA	47
GTTGAGC	69
GTTGAGG	69
GTTGAGT	40
GTTGATA	32
GTTGATC	87
GTTGATG	79
GTTGATT	126
GTTGCAA	83
GTTGCAC	40
GTTGCAG	69
GTTGCAT	87
GTTGCCA	47
GTTGCCC	58
GTTGCCG	47
GTTGCCT	61
GTTGCGA	36
GTTGCGC	29
GTTGCGG	40
GTTGCGT	58
GTTGCTA	83
GTTGCTC	105
GTTGCTG	51
GTTGCTT	115
GTTGGAA	51
GTTGGAC	47
GTTGGAG	54
GTTGGAT	97
GTTGGCA	69
GTTGGCC	65
GTTGGCG	65
GTTGGCT	61
GTTGGGA	54
GTTGGGC	58
GTTGGGG	83
GTTGGGT	25
GTTGGTA	36
GTTGGTC	40
GTTGGTG	94
GTTGGTT	76
GTTGTAA	65
GTTGTAC	76
GTTGTAG	61
GTTGTAT	79
GTTGTCA	51
GTTGTCC	40
GTTGTCCG	43
GTTGTCT	76
GTTGTGA	87
GTTGTGC	65
GTTGTGG	87
GTTGTGT	101

GTTGTTA	51
GTTGTTC	69
GTTGTTG	112
GTTGTTT	97
GTTTAAA	130
GTTTAAC	32
GTTTAAG	76
GTTTAAT	105
GTTTACA	54
GTTTACC	36
GTTTACG	22
GTTTACT	61
GTTTAGA	47
GTTTAGC	65
GTTTAGG	65
GTTTAGT	83
GTTTATA	97
GTTTATC	79
GTTTATG	83
GTTTATT	123
GTTTCAA	115
GTTTCAC	47
GTTTCAG	32
GTTTCAT	83
GTTTCCA	123
GTTTCCC	54
GTTTCCG	29
GTTTCCT	87
GTTTCGA	47
GTTTCGC	32
GTTTCGG	36
GTTTCGT	40
GTTTCTA	90
GTTTCTC	108
GTTTCTG	51
GTTTCTT	137
GTTTGAA	87
GTTTGAC	65
GTTTGAG	94
GTTTGAT	101
GTTTGCA	97
GTTTGCC	51
GTTTGCG	18
GTTTGCT	79
GTTTGGA	130
GTTTGGC	90
GTTTGGG	47
GTTTGGT	130
GTTTGTA	94
GTTTGTA	94
GTTTGTC	51
GTTTGTT	184

GTTTTAA	130
GTTTTAC	69
GTTTTAG	112
GTTTTAT	130
GTTTTCA	58
GTTTTCC	76
GTTTTCG	58
GTTTTCT	115
GTTTTGA	76
GTTTTGC	72
GTTTTGG	105
GTTTTGT	162
GTTTTTA	177
GTTTTTC	101
GTTTTTG	148
GTTTTTT	227
TAAAAAA	386
TAAAAAC	148
TAAAAAG	148
TAAAAAT	263
TAAAACA	112
TAAAACC	108
TAAAACG	43
TAAAACT	133
TAAAAGA	119
TAAAAGC	83
TAAAAGG	65
TAAAAGT	79
TAAAATA	321
TAAAATC	141
TAAAATG	170
TAAAATT	289
TAAACAA	166
TAAACAC	61
TAAACAG	65
TAAACAT	141
TAAACCA	83
TAAACCC	54
TAAACCG	32
TAAACCT	83
TAAACGA	22
TAAACGC	22
TAAACGG	32
TAAACGT	36
TAAACTA	133
TAAACTC	76
TAAACTG	76
TAAACTT	130
TAAAGAA	137
TAAAGAC	47
TAAAGAG	83
TAAAGAT	105

TAAAGCA	119
TAAAGCC	51
TAAAGCG	58
TAAAGCT	65
TAAAGGA	36
TAAAGGA	36
TAAAGGC	51
TAAAGGG	65
TAAAGTA	94
TAAAGTC	72
TAAAGTG	61
TAAAGTT	105
TAAATAA	267
TAAATAC	144
TAAATAG	115
TAAATAT	307
TAAATCA	101
TAAATCC	83
TAAATCG	47
TAAATCT	94
TAAATGA	126
TAAATGC	94
TAAATGG	79
TAAATGT	173
TAAATTA	253
TAAATTC	108
TAAATTG	97
TAAATTT	220
TAACAAA	144
TAACAAC	76
TAACAAG	76
TAACAAT	83
TAACACA	87
TAACACC	22
TAACACG	25
TAACACT	69
TAACAGA	69
TAACAGC	22
TAACAGG	25
TAACAGT	47
TAACATA	97
TAACATC	58
TAACATG	47
TAACATT	83
TAACCAA	58
TAACCAC	36
TAACCAG	22
TAACCAT	90
TAACCCA	47
TAACCCC	32
TAACCCG	29
TAACCCT	43

TAACCGA	40
TAACCGC	29
TAACCGG	43
TAACCGT	22
TAACCTA	43
TAACCTC	25
TAACCTG	18
TAACCTT	61
TAACGAA	43
TAACGAC	18
TAACGAG	51
TAACGAT	32
TAACGCA	11
TAACGCC	7
TAACGCG	14
TAACGCT	22
TAACGGA	40
TAACGGC	40
TAACGGG	47
TAACGGT	11
TAACGTA	36
TAACGTC	7
TAACGTG	47
TAACGTT	22
TAACTAA	72
TAACTAC	54
TAACTAG	36
TAACTAT	79
TAACTCA	58
TAACTCC	43
TAACTCG	36
TAACTCT	69
TAACTGA	32
TAACTGC	43
TAACTGG	43
TAACTGT	51
TAACTTA	51
TAACTTC	61
TAACTTG	58
TAACTTT	101
TAAGAAA	115
TAAGAAC	43
TAAGAAG	72
TAAGAAT	54
TAAGACA	47
TAAGACC	36
TAAGACG	25
TAAGACT	36
TAAGAGA	69
TAAGAGA	69
TAAGAGG	65
TAAGAGT	61

TAAGATA	94
TAAGATC	40
TAAGATG	69
TAAGATT	65
TAAGCAA	72
TAAGCAC	54
TAAGCAG	25
TAAGCAT	61
TAAGCCA	43
TAAGCCC	7
TAAGCCG	29
TAAGCCT	40
TAAGCGA	36
TAAGCGC	18
TAAGCGG	11
TAAGCGT	11
TAAGCTA	51
TAAGCTC	22
TAAGCTG	32
TAAGCTT	65
TAAGGAA	69
TAAGGAC	29
TAAGGAG	51
TAAGGAT	43
TAAGGCA	40
TAAGGCC	29
TAAGGCG	25
TAAGGCT	47
TAAGGGA	58
TAAGGGC	47
TAAGGGG	40
TAAGGGT	61
TAAGGTA	36
TAAGGTC	47
TAAGGTG	65
TAAGGTT	72
TAAGTAA	51
TAAGTAC	51
TAAGTAG	69
TAAGTAT	72
TAAGTCA	65
TAAGTCC	11
TAAGTCG	22
TAAGTCT	54
TAAGTGA	69
TAAGTGC	54
TAAGTGG	47
TAAGTGT	58
TAAGTTA	76
TAAGTTC	22
TAAGTTG	61
TAAGTTT	137

TAATAAA	184
TAATAAA	184
TAATAAC	69
TAATAAT	245
TAATACA	87
TAATACC	61
TAATACG	11
TAATACT	126
TAATAGA	76
TAATAGC	47
TAATAGG	36
TAATAGT	105
TAATATA	173
TAATATC	90
TAATATG	97
TAATATT	152
TAATCAA	90
TAATCAC	65
TAATCAG	25
TAATCAT	61
TAATCCA	58
TAATCCC	47
TAATCCG	43
TAATCCT	32
TAATCGA	32
TAATCGC	25
TAATCGG	32
TAATCGT	32
TAATCTA	123
TAATCTC	47
TAATCTG	43
TAATCTT	133
TAATGAA	87
TAATGAC	51
TAATGAG	36
TAATGAT	108
TAATGCA	97
TAATGCC	54
TAATGCG	29
TAATGCT	87
TAATGGA	43
TAATGGC	29
TAATGGG	47
TAATGGT	58
TAATGTA	58
TAATGTC	32
TAATGTG	72
TAATGTT	126
TAATTAA	170
TAATTAC	65
TAATTAG	130
TAATTAT	195

TAATTCA	123
TAATTCC	47
TAATTCCG	36
TAATTCT	79
TAATTGA	87
TAATTGC	94
TAATTGG	54
TAATTGT	90
TAATTTA	206
TAATTTTC	115
TAATTTG	152
TAATTTT	292
TACAAAA	152
TACAAAC	87
TACAAAG	83
TACAAAT	123
TACAACA	112
TACAACC	65
TACAACG	18
TACAACT	51
TACAAGA	72
TACAAGC	61
TACAAGG	32
TACAAGT	90
TACAATA	108
TACAATC	40
TACAATG	32
TACAATT	76
TACACAA	47
TACACAC	51
TACACAG	54
TACACAT	79
TACACCA	65
TACACCC	25
TACACCG	36
TACACCT	58
TACACGA	25
TACACGC	29
TACACGG	18
TACACGT	40
TACACTA	58
TACACTC	51
TACACTG	58
TACACTT	76
TACAGAA	72
TACAGAC	47
TACAGAG	43
TACAGAT	51
TACAGCA	29
TACAGCC	58
TACAGCG	14
TACAGCT	43

TACAGGA	18
TACAGGC	18
TACAGGG	43
TACAGGT	40
TACAGTA	61
TACAGTC	18
TACAGTG	40
TACAGTT	43
TACATAA	90
TACATAC	72
TACATAG	61
TACATAT	137
TACATCA	65
TACATCC	61
TACATCG	18
TACATCT	79
TACATGA	72
TACATGC	72
TACATGG	76
TACATGT	126
TACATTA	54
TACATTC	29
TACATTG	54
TACATTT	141
TACCAAA	148
TACCAAC	40
TACCAAG	76
TACCAAT	76
TACCACA	54
TACCACC	40
TACCACG	14
TACCACT	51
TACCAGA	47
TACCAGC	54
TACCAGG	14
TACCAGT	29
TACCATA	54
TACCATC	51
TACCATG	51
TACCATT	65
TACCCAA	76
TACCCAC	36
TACCCAG	29
TACCCAT	65
TACCCCA	51
TACCCCC	51
TACCCCG	40
TACCCCT	43
TACCCGA	29
TACCCGC	11
TACCCGG	11
TACCCGT	11

TACCCTA	36
TACCCTA	36
TACCCTC	51
TACCCTG	22
TACCGAA	22
TACCGAC	25
TACCGAG	36
TACCGAT	14
TACCGCA	14
TACCGCC	32
TACCGCG	22
TACCGCT	7
TACCGGA	25
TACCGGC	43
TACCGGG	11
TACCGGT	36
TACCGTA	29
TACCGTC	25
TACCGTG	25
TACCGTT	29
TACCTAA	47
TACCTAC	54
TACCTAG	40
TACCTAT	51
TACCTCA	40
TACCTCC	40
TACCTCG	43
TACCTCT	51
TACCTGA	40
TACCTGC	22
TACCTGG	7
TACCTGT	43
TACCTTA	32
TACCTTC	54
TACCTTG	40
TACCTTT	112
TACGAAA	54
TACGAAC	22
TACGAAG	22
TACGAAT	7
TACGACA	36
TACGACC	18
TACGACG	32
TACGACT	32
TACGAGA	22
TACGAGC	7
TACGAGG	11
TACGAGT	25
TACGATA	32
TACGATC	22
TACGATG	29
TACGATT	36

TACGCAA	32
TACGCAC	7
TACGCAG	11
TACGCAT	29
TACGCCA	22
TACGCCC	36
TACGCCG	40
TACGCCT	25
TACGCGA	18
TACGCGC	25
TACGCGG	7
TACGCGT	29
TACGCTA	22
TACGCTC	32
TACGCTG	11
TACGCTT	11
TACGGAA	18
TACGGAC	4
TACGGAG	51
TACGGAT	25
TACGGCA	14
TACGGCC	25
TACGGCG	7
TACGGCT	25
TACGGGA	18
TACGGGC	32
TACGGGG	7
TACGGGT	25
TACGGTA	25
TACGGTC	22
TACGGTG	22
TACGGTT	32
TACGTAA	40
TACGTAC	87
TACGTAG	51
TACGTAT	40
TACGTCA	32
TACGTCC	18
TACGTCCG	22
TACGTCT	18
TACGTGA	40
TACGTGC	61
TACGTGG	65
TACGTGT	47
TACGTTA	11
TACGTTA	11
TACGTTG	32
TACGTTT	29
TACTAAA	115
TACTAAC	51
TACTAAG	43
TACTAAT	72

TACTACA	61
TACTACC	54
TACTACG	29
TACTACT	112
TACTAGA	79
TACTAGC	65
TACTAGG	51
TACTAGT	87
TACTATA	87
TACTATC	29
TACTATG	61
TACTATT	101
TACTCAA	47
TACTCAC	61
TACTCAG	29
TACTCAT	94
TACTCCA	58
TACTCCC	43
TACTCCG	51
TACTCCT	105
TACTCGA	58
TACTCGC	25
TACTCGG	18
TACTCGT	32
TACTCTA	72
TACTCTC	32
TACTCTG	54
TACTCTT	69
TACTGAA	69
TACTGAC	51
TACTGAG	32
TACTGAT	58
TACTGCA	29
TACTGCC	36
TACTGCG	29
TACTGCT	61
TACTGGA	29
TACTGGC	22
TACTGGG	32
TACTGGT	40
TACTGTA	72
TACTGTC	25
TACTGTG	40
TACTGTT	51
TACTTAA	72
TACTTAC	36
TACTTAG	40
TACTTAT	79
TACTTCA	43
TACTTCA	43
TACTTCC	43
TACTTCT	54

TACTTGA	40
TACTTGC	90
TACTTGG	47
TACTTGT	87
TACTTTA	54
TACTTTC	47
TACTTTG	72
TACTTTT	123
TAGAAAA	202
TAGAAAC	97
TAGAAAG	65
TAGAAAT	170
TAGAACA	47
TAGAACC	47
TAGAACG	22
TAGAACT	58
TAGAAGA	65
TAGAAGC	36
TAGAAGG	54
TAGAAGT	51
TAGAATA	115
TAGAATC	43
TAGAATG	83
TAGAATT	72
TAGACAA	54
TAGACAA	54
TAGACAG	43
TAGACAT	72
TAGACCA	61
TAGACCC	43
TAGACCG	18
TAGACCT	54
TAGACGA	51
TAGACGC	18
TAGACGG	32
TAGACGT	22
TAGACTA	90
TAGACTC	43
TAGACTG	47
TAGACTT	36
TAGAGAA	101
TAGAGAC	54
TAGAGAG	115
TAGAGAT	126
TAGAGCA	87
TAGAGCC	58
TAGAGCG	22
TAGAGCT	76
TAGAGGA	87
TAGAGGC	14
TAGAGGG	47
TAGAGGT	61

TAGAGTA	90
TAGAGTC	47
TAGAGTG	65
TAGAGTT	65
TAGATAA	90
TAGATAC	65
TAGATAG	69
TAGATAT	101
TAGATCA	51
TAGATCC	105
TAGATCG	29
TAGATCT	69
TAGATGA	79
TAGATGC	61
TAGATGG	36
TAGATGT	72
TAGATTA	123
TAGATTC	54
TAGATTG	47
TAGATTT	126
TAGCAAA	101
TAGCAAC	69
TAGCAAG	87
TAGCAAT	69
TAGCACA	58
TAGCACC	29
TAGCACG	51
TAGCACT	54
TAGCAGA	72
TAGCAGC	51
TAGCAGG	29
TAGCAGT	32
TAGCATA	79
TAGCATC	47
TAGCATG	61
TAGCATT	69
TAGCCAA	90
TAGCCAC	65
TAGCCAG	54
TAGCCAT	51
TAGCCCA	69
TAGCCCC	58
TAGCCCG	54
TAGCCCT	36
TAGCCGA	29
TAGCCGC	43
TAGCCGG	18
TAGCCGT	54
TAGCCTA	76
TAGCCTC	65
TAGCCTG	32
TAGCCTT	58

TAGCGAA	32
TAGCGAC	36
TAGCGAG	22
TAGCGAT	14
TAGCGCA	18
TAGCGCC	11
TAGCGCG	25
TAGCGCT	11
TAGCGGA	36
TAGCGGC	43
TAGCGGG	18
TAGCGGT	25
TAGCGTA	22
TAGCGTC	29
TAGCGTG	29
TAGCGTT	43
TAGCTAA	90
TAGCTAC	87
TAGCTAG	166
TAGCTAT	126
TAGCTCA	58
TAGCTCC	54
TAGCTCG	69
TAGCTCT	51
TAGCTGA	69
TAGCTGC	76
TAGCTGG	36
TAGCTGT	47
TAGCTTA	54
TAGCTTC	76
TAGCTTG	72
TAGCTTT	115
TAGGAAA	97
TAGGAAC	72
TAGGAAG	61
TAGGAAT	65
TAGGACA	54
TAGGACC	25
TAGGACG	22
TAGGACT	47
TAGGAGA	43
TAGGAGC	43
TAGGAGG	32
TAGGAGT	51
TAGGATA	54
TAGGATC	36
TAGGATG	32
TAGGATT	65
TAGGCAA	43
TAGGCAC	32
TAGGCAG	25
TAGGCAT	69

TAGGCCA	69
TAGGCCC	29
TAGGCCG	32
TAGGCCT	47
TAGGCGA	43
TAGGCGC	14
TAGGCGG	43
TAGGCGT	25
TAGGCTA	29
TAGGCTC	25
TAGGCTG	25
TAGGCTT	69
TAGGGAA	25
TAGGGAC	40
TAGGGAG	43
TAGGGAT	36
TAGGGCA	43
TAGGGCC	36
TAGGGCG	22
TAGGGCT	51
TAGGGGA	61
TAGGGGC	54
TAGGGGG	32
TAGGGGT	43
TAGGGTA	51
TAGGGTC	14
TAGGGTG	54
TAGGGTT	51
TAGGTAA	29
TAGGTAC	40
TAGGTAG	29
TAGGTAT	47
TAGGTCA	47
TAGGTCC	14
TAGGTCCG	32
TAGGTCT	51
TAGGTGA	79
TAGGTGC	36
TAGGTGG	47
TAGGTGT	58
TAGGTTA	40
TAGGTTA	40
TAGGTTC	43
TAGGTTT	79
TAGTAAA	112
TAGTAAC	32
TAGTAAG	61
TAGTAAT	83
TAGTACA	58
TAGTACC	22
TAGTACG	22
TAGTACT	65

TAGTAGA	90
TAGTAGC	51
TAGTAGG	22
TAGTAGT	83
TAGTATA	108
TAGTATC	32
TAGTATG	51
TAGTATT	54
TAGTCAA	61
TAGTCAC	51
TAGTCAG	40
TAGTCAT	72
TAGTCCA	83
TAGTCCC	32
TAGTCCG	29
TAGTCCT	43
TAGTCGA	25
TAGTCGC	11
TAGTCGG	18
TAGTCGT	29
TAGTCTA	47
TAGTCTC	76
TAGTCTG	25
TAGTCTT	72
TAGTGAA	61
TAGTGAC	51
TAGTGAG	76
TAGTGAT	69
TAGTGCA	54
TAGTGCC	51
TAGTGCG	25
TAGTGCT	69
TAGTGGA	83
TAGTGGC	47
TAGTGGG	36
TAGTGGT	72
TAGTGTA	61
TAGTGTC	47
TAGGTG	65
TAGTGTT	144
TAGTTAA	101
TAGTTAC	51
TAGTTAG	83
TAGTTAT	97
TAGTTCA	72
TAGTTCA	72
TAGTTCC	51
TAGTTCCG	25
TAGTTGA	54
TAGTTGC	43
TAGTTGG	69
TAGTTGT	54

TAGTTTA	101
TAGTTTC	90
TAGTTTG	90
TAGTTTT	112
TATAAAA	307
TATAAAC	130
TATAAAG	87
TATAAAT	310
TATAACA	79
TATAACC	43
TATAACG	22
TATAACT	65
TATAAGA	141
TATAAGC	69
TATAAGG	43
TATAAGT	90
TATAATA	249
TATAATC	108
TATAATG	69
TATAATT	238
TATACAA	148
TATACAC	65
TATACAG	58
TATACAT	97
TATACCA	54
TATACCC	32
TATACCG	4
TATACCT	69
TATACGA	40
TATACGC	25
TATACGG	14
TATACGT	43
TATACTA	112
TATACTC	54
TATACTG	40
TATACTT	94
TATAGAA	130
TATAGAC	69
TATAGAG	105
TATAGAT	115
TATAGCA	87
TATAGCC	97
TATAGCG	32
TATAGCT	119
TATAGGA	51
TATAGGC	29
TATAGGG	29
TATAGGT	76
TATAGTA	79
TATAGTC	40
TATAGTG	61
TATAGTT	97

TATATAA	299
TATATAC	188
TATATAG	130
TATATAT	675
TATATCA	112
TATATCC	58
TATATCG	43
TATATCT	166
TATATGA	152
TATATGC	105
TATATGG	83
TATATGT	188
TATATTA	202
TATATTC	119
TATATTG	94
TATATTT	372
TATCAAA	119
TATCAAC	72
TATCAAG	65
TATCAAT	94
TATCACA	79
TATCACC	58
TATCACG	32
TATCACT	76
TATCAGA	58
TATCAGC	32
TATCAGG	32
TATCAGT	32
TATCATA	108
TATCATC	58
TATCATG	69
TATCATT	105
TATCCAA	54
TATCCAC	54
TATCCAG	51
TATCCAT	90
TATCCCA	32
TATCCCC	29
TATCCCG	18
TATCCCT	76
TATCCGA	25
TATCCGC	29
TATCCGG	32
TATCCGT	47
TATCCTA	51
TATCCTC	51
TATCCTG	32
TATCCTT	32
TATCGAA	43
TATCGAC	29
TATCGAG	14
TATCGAT	40

TATCGCA	14
TATCGCC	14
TATCGCG	11
TATCGCT	29
TATCGGA	32
TATCGGC	14
TATCGGG	22
TATCGGT	22
TATCGTA	25
TATCGTC	14
TATCGTG	51
TATCGTT	29
TATCTAA	94
TATCTAC	36
TATCTAG	58
TATCTAT	130
TATCTCA	65
TATCTCC	43
TATCTCG	29
TATCTCT	101
TATCTGA	83
TATCTGC	25
TATCTGG	32
TATCTGT	76
TATCTTA	101
TATCTTC	108
TATCTTG	115
TATCTTT	126
TATGAAA	141
TATGAAC	72
TATGAAG	58
TATGAAT	87
TATGACA	69
TATGACC	32
TATGACG	18
TATGACT	61
TATGAGA	83
TATGAGA	83
TATGAGC	47
TATGAGT	94
TATGATA	108
TATGATC	65
TATGATG	119
TATGATT	105
TATGCAA	83
TATGCAC	83
TATGCAG	29
TATGCAT	130
TATGCCA	22
TATGCCC	40
TATGCCG	54
TATGCCT	61

TATGCGA	43
TATGCGC	14
TATGCGG	14
TATGCGT	40
TATGCTA	58
TATGCTC	51
TATGCTG	54
TATGCTT	83
TATGGAA	61
TATGGAC	83
TATGGAG	36
TATGGAT	90
TATGGCA	79
TATGGCC	51
TATGGCG	36
TATGGCT	47
TATGGGA	65
TATGGGC	18
TATGGGG	43
TATGGGT	22
TATGGTA	51
TATGGTC	69
TATGGTG	90
TATGGTT	87
TATGTAA	112
TATGTAC	54
TATGTAG	47
TATGTAT	173
TATGTCA	47
TATGTCC	43
TATGTCCG	51
TATGTCT	79
TATGTGA	94
TATGTGC	40
TATGTGG	69
TATGTGT	123
TATGTTA	87
TATGTTC	90
TATGTTG	144
TATGTTT	144
TATTA AA	220
TATTA AA	220
TATTAAC	47
TATTAAG	51
TATTACA	108
TATTACC	40
TATTACG	22
TATTA CT	90
TATTAGA	87
TATTAGC	65
TATTAGG	61
TATTAGT	51

TATTATA	234
TATTATC	61
TATTATG	105
TATTATT	263
TATTCAA	119
TATTCAC	76
TATTCAG	43
TATTCAT	170
TATTCCA	51
TATTCCC	40
TATTCCG	29
TATTCCT	79
TATTCGA	43
TATTCGC	14
TATTCGG	11
TATTCGT	29
TATTCTA	72
TATTCTC	90
TATTCTG	76
TATTCTT	133
TATTGAA	101
TATTGAC	40
TATTGAG	65
TATTGAT	87
TATTGCA	83
TATTGCC	47
TATTGCG	4
TATTGCT	65
TATTGGA	69
TATTGGC	43
TATTGGG	29
TATTGGT	90
TATTGTA	58
TATTGTC	101
TATTGTG	105
TATTGTT	148
TATTTAA	216
TATTTAC	101
TATTTAG	155
TATTTAT	354
TATTTCA	170
TATTTCC	83
TATTTCG	29
TATTTCT	144
TATTTGA	152
TATTTGC	72
TATTTGG	141
TATTTGT	166
TATTTTA	253
TATTTTC	180
TATTTTG	220
TATTTTT	382

TCAAAA	108
TCAAAC	79
TCAAAG	69
TCAAAT	170
TCAAACA	141
TCAAACC	54
TCAAACG	58
TCAAACT	119
TCAAAGA	65
TCAAAGC	65
TCAAAGG	90
TCAAAGT	69
TCAAATA	155
TCAAATC	90
TCAAATG	94
TCAAATT	148
TCAACAA	87
TCAACAC	79
TCAACAG	61
TCAACAT	115
TCAACCA	97
TCAACCC	61
TCAACCG	32
TCAACCT	40
TCAACGA	51
TCAACGC	22
TCAACGG	79
TCAACGT	14
TCAACTA	87
TCAACTC	79
TCAACTG	25
TCAACTT	61
TCAAGAA	97
TCAAGAC	40
TCAAGAG	69
TCAAGAT	97
TCAAGCA	76
TCAAGCA	76
TCAAGCG	36
TCAAGCT	69
TCAAGGA	72
TCAAGGC	36
TCAAGGG	58
TCAAGGT	32
TCAAGTA	54
TCAAGTC	65
TCAAGTG	61
TCAAGTT	76
TCAATAA	108
TCAATAC	32
TCAATAG	43
TCAATAT	83

TCAATCA	43
TCAATCC	105
TCAATCG	43
TCAATCT	79
TCAATGA	69
TCAATGC	43
TCAATGG	43
TCAATGT	54
TCAATTA	97
TCAATTC	94
TCAATTG	69
TCAATTT	130
TCACAAA	105
TCACAAC	40
TCACAAG	76
TCACAAT	51
TCACACA	69
TCACACC	58
TCACACG	43
TCACACT	65
TCACAGA	32
TCACAGC	22
TCACAGG	40
TCACAGT	18
TCACATA	83
TCACATC	72
TCACATG	137
TCACATT	54
TCACCAA	87
TCACCAC	83
TCACCAG	69
TCACCAT	79
TCACCCA	51
TCACCCC	61
TCACCCG	47
TCACCCT	83
TCACCGA	65
TCACCGC	69
TCACCGG	43
TCACCGT	94
TCACCTA	83
TCACCTC	47
TCACCTG	36
TCACCTT	61
TCACGAA	18
TCACGAC	14
TCACGAG	54
TCACGAT	32
TCACGCA	51
TCACGCC	65
TCACGCG	25
TCACGCT	47

TCACGGA	22
TCACGGC	25
TCACGGG	29
TCACGGT	43
TCACGTA	29
TCACGTC	29
TCACGTG	36
TCACGTT	25
TCACTAA	61
TCACTAC	40
TCACTAG	76
TCACTAT	61
TCACTCA	90
TCACTCC	79
TCACTCG	40
TCACTCT	90
TCACTGA	36
TCACTGC	72
TCACTGG	51
TCACTGT	83
TCACTTA	43
TCACTTC	72
TCACTTG	126
TCACTTT	119
TCAGAAA	105
TCAGAAC	36
TCAGAAG	43
TCAGAAT	25
TCAGACA	51
TCAGACC	29
TCAGACG	47
TCAGACT	51
TCAGAGA	47
TCAGAGA	47
TCAGAGC	43
TCAGAGG	40
TCAGATA	36
TCAGATC	54
TCAGATG	58
TCAGATT	51
TCAGCAA	65
TCAGCAC	43
TCAGCAG	79
TCAGCAT	32
TCAGCCA	69
TCAGCCC	47
TCAGCCG	47
TCAGCCT	29
TCAGCGA	43
TCAGCGC	32
TCAGCGG	29
TCAGCGT	18

TCAGCTA	61
TCAGCTC	58
TCAGCTG	36
TCAGCTT	65
TCAGGAA	51
TCAGGAC	11
TCAGGAG	51
TCAGGAT	36
TCAGGCA	14
TCAGGCC	47
TCAGGCG	25
TCAGGCT	47
TCAGGGA	40
TCAGGGC	40
TCAGGGG	29
TCAGGGT	25
TCAGGTA	47
TCAGGTC	32
TCAGGTG	14
TCAGGTT	58
TCAGTAA	36
TCAGTAC	43
TCAGTAG	40
TCAGTAT	36
TCAGTCA	54
TCAGTCC	18
TCAGTCG	43
TCAGTCT	83
TCAGTGA	14
TCAGTGC	43
TCAGTGG	47
TCAGTGT	47
TCAGTTA	51
TCAGTTC	29
TCAGTTG	65
TCAGTTT	105
TCATAAA	133
TCATAAC	72
TCATAAG	58
TCATAAT	65
TCATACA	72
TCATACC	51
TCATACG	22
TCATACT	36
TCATAGA	65
TCATAGC	29
TCATAGG	32
TCATAGT	61
TCATATA	180
TCATATC	105
TCATATG	112
TCATATT	115

TCATCAA	119
TCATCAC	108
TCATCAG	61
TCATCAT	105
TCATCCA	105
TCATCCC	76
TCATCCG	22
TCATCCT	79
TCATCGA	29
TCATCGC	36
TCATCGG	58
TCATCGT	69
TCATCTA	69
TCATCTC	119
TCATCTG	101
TCATCTT	126
TCATGAA	76
TCATGAC	40
TCATGAG	58
TCATGAT	115
TCATGCA	123
TCATGCC	83
TCATGCG	43
TCATGCT	87
TCATGGA	65
TCATGGC	43
TCATGGG	32
TCATGGT	83
TCATGTA	123
TCATGTC	69
TCATGTG	115
TCATGTT	112
TCATTAA	87
TCATTAC	32
TCATTAG	51
TCATTAT	105
TCATTCA	69
TCATTCC	126
TCATTCG	43
TCATTCT	90
TCATTGA	94
TCATTGC	43
TCATTGG	29
TCATTGT	58
TCATTTA	123
TCATTTT	105
TCATTTG	105
TCATTTT	209
TCCAAAA	133
TCCAAAC	94
TCCAAAG	94
TCCAAAT	130

TCCAACA	76
TCCAACC	87
TCCAACG	76
TCCAACT	58
TCCAAGA	79
TCCAAGC	79
TCCAAGG	43
TCCAAGT	76
TCCAATA	65
TCCAATC	101
TCCAATG	36
TCCAATT	115
TCCACAA	72
TCCACAA	72
TCCACAC	58
TCCACAT	83
TCCACCA	112
TCCACCC	65
TCCACCG	65
TCCACCT	123
TCCACGA	14
TCCACGC	54
TCCACGG	65
TCCACGT	58
TCCACTA	40
TCCACTC	79
TCCACTG	90
TCCACTT	69
TCCAGAA	76
TCCAGAC	40
TCCAGAG	65
TCCAGAT	105
TCCAGCA	115
TCCAGCC	90
TCCAGCG	32
TCCAGCT	47
TCCAGGA	32
TCCAGGC	47
TCCAGGG	36
TCCAGGT	43
TCCAGTA	40
TCCAGTC	40
TCCAGTG	51
TCCAGTT	32
TCCATAA	90
TCCATAC	25
TCCATAG	58
TCCATAT	115
TCCATCA	83
TCCATCC	141
TCCATCG	105
TCCATCT	87

TCCATGA	54
TCCATGC	72
TCCATGG	36
TCCATGT	115
TCCATTA	61
TCCATTC	97
TCCATTG	65
TCCATTT	112
TCCAAA	105
TCCAAC	72
TCCAAG	79
TCCAAT	65
TCCACA	87
TCCACC	69
TCCACG	36
TCCACT	47
TCCAGA	40
TCCAGC	47
TCCAGG	47
TCCAGT	7
TCCATA	51
TCCATC	79
TCCATG	54
TCCATT	58
TCCCAA	83
TCCCAC	101
TCCCAG	43
TCCCAT	79
TCCCCA	79
TCCCCC	61
TCCCCG	40
TCCCCT	166
TCCCCGA	43
TCCCCGA	43
TCCCCGG	29
TCCCCGT	69
TCCCCTA	51
TCCCCTC	137
TCCCCTG	32
TCCCCTT	79
TCCCGAA	18
TCCCGAC	18
TCCCGAG	43
TCCCGAT	14
TCCCGCA	22
TCCCGCC	47
TCCCGCG	43
TCCCGCT	47
TCCCGGA	14
TCCCGGC	14
TCCCGGG	25
TCCCGGT	25

TCCCGTA	22
TCCCGTC	47
TCCCGTG	47
TCCCGTT	47
TCCCTAA	47
TCCCTAC	65
TCCCTAG	51
TCCCTAT	101
TCCCTCA	94
TCCCTCC	130
TCCCTCG	51
TCCCTCT	79
TCCCTGA	32
TCCCTGC	76
TCCCTGG	54
TCCCTGT	61
TCCCTTA	54
TCCCTTC	90
TCCCTTG	90
TCCCTTT	137
TCCGAAA	29
TCCGAAC	40
TCCGAAG	51
TCCGAAT	22
TCCGACA	29
TCCGACC	36
TCCGACG	22
TCCGACT	40
TCCGAGA	18
TCCGAGC	69
TCCGAGG	25
TCCGAGT	25
TCCGATA	22
TCCGATC	76
TCCGATG	54
TCCGATT	40
TCCGCAA	22
TCCGCAC	43
TCCGCAG	22
TCCGCAT	32
TCCGCCA	40
TCCGCCC	61
TCCGCCG	72
TCCGCCT	47
TCCGCGA	58
TCCGCGC	69
TCCGCGG	14
TCCGCGT	51
TCCGCTA	25
TCCGCTC	54
TCCGCTG	43
TCCGCTT	54

TCCGGAA	25
TCCGGAC	43
TCCGGAG	14
TCCGGAT	36
TCCGGCA	29
TCCGGCC	79
TCCGGCG	43
TCCGGCT	61
TCCGGGA	18
TCCGGGC	36
TCCGGGG	43
TCCGGGT	43
TCCGGTA	40
TCCGGTC	54
TCCGGTG	202
TCCGGTT	51
TCCGTAA	22
TCCGTAC	29
TCCGTAG	18
TCCGTAT	47
TCCGTCA	18
TCCGTCC	87
TCCGTCCG	40
TCCGTCT	29
TCCGTGA	22
TCCGTGC	58
TCCGTGG	25
TCCGTGT	40
TCCGTTA	25
TCCGTTA	25
TCCGTTC	47
TCCGTTG	54
TCCTAAA	87
TCCTAAC	40
TCCTAAG	54
TCCTAAT	51
TCCTACA	51
TCCTACC	36
TCCTACG	36
TCCTACT	58
TCCTAGA	47
TCCTAGC	58
TCCTAGG	47
TCCTAGT	14
TCCTATA	87
TCCTATC	58
TCCTATG	51
TCCTATT	101
TCCTCAA	112
TCCTCAC	87
TCCTCAG	22
TCCTCAT	87

TCCTCCA	130
TCCTCCC	152
TCCTCCG	94
TCCTCCT	202
TCCTCGA	32
TCCTCGC	87
TCCTCGG	58
TCCTCGT	47
TCCTCTA	105
TCCTCTC	180
TCCTCTG	54
TCCTCTT	166
TCCTGAA	87
TCCTGAC	36
TCCTGAG	36
TCCTGAT	40
TCCTGCA	65
TCCTGCC	87
TCCTGCG	54
TCCTGCT	72
TCCTGGA	22
TCCTGGC	32
TCCTGGG	47
TCCTGGT	47
TCCTGTA	43
TCCTGTC	65
TCCTGTG	51
TCCTGTT	79
TCCTTAA	69
TCCTTAC	29
TCCTTAG	69
TCCTTAT	72
TCCTTCA	79
TCCTTCC	112
TCCTTCG	76
TCCTTCT	97
TCCTTGA	61
TCCTTGC	101
TCCTTGG	87
TCCTTGT	108
TCCTTTA	65
TCCTTTC	108
TCCTTTG	115
TCCTTTT	148
TCGAAAA	54
TCGAAAC	32
TCGAAAG	36
TCGAAAT	43
TCGAACA	36
TCGAACC	40
TCGAACG	40
TCGAACT	47

TCGAAGA	40
TCGAAGC	40
TCGAAGG	32
TCGAAGT	22
TCGAATA	36
TCGAATC	22
TCGAATG	43
TCGAATT	43
TCGACAA	43
TCGACAA	43
TCGACAC	32
TCGACAG	29
TCGACCA	36
TCGACCC	25
TCGACCG	76
TCGACCT	40
TCGACGA	79
TCGACGC	22
TCGACGG	51
TCGACGT	32
TCGACTA	22
TCGACTC	43
TCGACTG	47
TCGACTT	43
TCGAGAA	54
TCGAGAC	18
TCGAGAG	65
TCGAGAT	47
TCGAGCA	43
TCGAGCC	32
TCGAGCG	61
TCGAGCT	58
TCGAGGA	43
TCGAGGC	43
TCGAGGG	29
TCGAGGT	32
TCGAGTA	29
TCGAGTC	40
TCGAGTG	43
TCGAGTT	58
TCGATAA	22
TCGATAC	40
TCGATAG	22
TCGATAT	47
TCGATCA	61
TCGATCC	87
TCGATCG	76
TCGATCT	97
TCGATGA	40
TCGATGC	51
TCGATGG	47
TCGATGT	36

TCGATTA	40
TCGATTC	51
TCGATTG	51
TCGATTT	79
TCGCAAA	40
TCGCAAC	18
TCGCAAG	47
TCGCAAT	25
TCGCACA	11
TCGCACC	25
TCGCACG	14
TCGCACT	22
TCGCAGA	18
TCGCAGC	40
TCGCAGG	25
TCGCAGT	11
TCGCATA	22
TCGCATC	51
TCGCATG	58
TCGCATT	51
TCGCCAA	58
TCGCCAC	65
TCGCCAG	32
TCGCCAT	47
TCGCCCA	36
TCGCCCC	79
TCGCCCG	36
TCGCCCT	43
TCGCCGA	51
TCGCCGA	51
TCGCCGC	83
TCGCCGT	72
TCGCCTA	32
TCGCCTC	72
TCGCCTG	43
TCGCCTT	25
TCGCGAA	18
TCGCGAC	22
TCGCGAG	25
TCGCGAT	22
TCGCGCA	22
TCGCGCC	40
TCGCGCG	58
TCGCGCT	29
TCGCGGA	40
TCGCGGC	54
TCGCGGG	14
TCGCGGT	18
TCGCGTA	4
TCGCGTC	76
TCGCGTG	32
TCGCGTT	18

TCGCTAA	36
TCGCTAC	14
TCGCTAG	43
TCGCTAT	22
TCGCTCA	36
TCGCTCC	61
TCGCTCG	54
TCGCTCT	61
TCGCTGA	11
TCGCTGC	36
TCGCTGG	40
TCGCTGT	36
TCGCTTA	14
TCGCTTC	69
TCGCTTG	43
TCGCTTT	43
TCGGAAA	40
TCGGAAC	32
TCGGAAG	51
TCGGAAT	11
TCGGACA	29
TCGGACC	43
TCGGACG	61
TCGGACT	32
TCGGAGA	22
TCGGAGC	43
TCGGAGG	36
TCGGAGT	14
TCGGATA	32
TCGGATC	51
TCGGATG	32
TCGGATT	43
TCGGCAA	69
TCGGCAC	32
TCGGCAG	25
TCGGCAT	14
TCGGCCA	61
TCGGCCC	40
TCGGCCG	51
TCGGCCT	51
TCGGCGA	29
TCGGCGC	29
TCGGCGG	54
TCGGCGT	40
TCGGCTA	51
TCGGCTC	72
TCGGCTG	40
TCGGCTT	58
TCGGGAA	29
TCGGGAC	25
TCGGGAG	29
TCGGGAT	18

TCGGGCA	32
TCGGGCC	58
TCGGGCG	54
TCGGGCT	47
TCGGGGA	29
TCGGGGC	22
TCGGGGG	32
TCGGGGT	61
TCGGGTA	14
TCGGGTC	25
TCGGGTG	29
TCGGGTT	29
TCGGTAA	25
TCGGTAC	36
TCGGTAG	11
TCGGTAT	40
TCGGTCA	43
TCGGTCC	29
TCGGTCG	40
TCGGTCT	54
TCGGTGA	25
TCGGTGC	36
TCGGTGG	47
TCGGTGT	36
TCGGTTA	36
TCGGTTC	51
TCGGTTG	40
TCGGTTT	87
TCGTAAA	11
TCGTAAC	14
TCGTAAG	18
TCGTAAT	22
TCGTACA	36
TCGTACC	18
TCGTACG	29
TCGTACT	43
TCGTAGA	51
TCGTAGC	14
TCGTAGG	25
TCGTAGT	61
TCGTATA	25
TCGTATC	18
TCGTATG	29
TCGTATT	36
TCGTCAA	43
TCGTCAC	51
TCGTCAG	32
TCGTCAT	18
TCGTCCA	79
TCGTCCC	65
TCGTCCG	97
TCGTCCT	40

TCGTCGA	61
TCGTCGC	47
TCGTCGG	65
TCGTCGT	123
TCGTCTA	25
TCGTCTC	90
TCGTCTG	36
TCGTCTT	76
TCGTGAA	36
TCGTGAC	51
TCGTGAG	32
TCGTGAT	18
TCGTGCA	40
TCGTGCC	40
TCGTGCG	22
TCGTGCT	51
TCGTGGA	54
TCGTGGC	58
TCGTGGG	36
TCGTGGT	40
TCGTGTA	69
TCGTGTC	69
TCGTGTG	72
TCGTGTT	51
TCGTTAA	29
TCGTTAA	29
TCGTTAG	40
TCGTTAT	47
TCGTTCA	54
TCGTTCC	61
TCGTTCG	72
TCGTTCT	51
TCGTTGA	40
TCGTTGC	47
TCGTTGG	40
TCGTTGT	47
TCGTTTA	69
TCGTTTC	76
TCGTTTG	61
TCGTTTT	79
TCTAAAA	177
TCTAAAC	69
TCTAAAG	69
TCTAAAT	144
TCTAACA	43
TCTAACC	51
TCTAACG	43
TCTAACT	72
TCTAAGA	65
TCTAAGC	18
TCTAAGG	65
TCTAAGT	87

TCTAATA	47
TCTAATC	61
TCTAATG	72
TCTAATT	137
TCTACAA	65
TCTACAC	54
TCTACAG	51
TCTACAT	101
TCTACCA	29
TCTACCC	47
TCTACCG	32
TCTACCT	79
TCTACGA	18
TCTACGC	25
TCTACGG	36
TCTACGT	43
TCTACTA	83
TCTACTC	58
TCTACTG	32
TCTACTT	108
TCTAGAA	119
TCTAGAC	61
TCTAGAG	130
TCTAGAT	115
TCTAGCA	54
TCTAGCA	54
TCTAGCC	76
TCTAGCT	69
TCTAGGA	51
TCTAGGC	72
TCTAGGG	36
TCTAGGT	69
TCTAGTA	61
TCTAGTC	47
TCTAGTG	58
TCTAGTT	97
TCTATAA	144
TCTATAC	29
TCTATAG	79
TCTATAT	166
TCTATCA	83
TCTATCC	40
TCTATCG	25
TCTATCT	76
TCTATGA	65
TCTATGC	43
TCTATGG	29
TCTATGT	87
TCTATTA	76
TCTATTC	54
TCTATTG	90
TCTATTT	195

TCTCAA	101
TCTCAAC	69
TCTCAAG	83
TCTCAAT	87
TCTCACA	61
TCTCACC	65
TCTCACG	51
TCTCACT	54
TCTCAGA	51
TCTCAGC	32
TCTCAGG	25
TCTCAGT	32
TCTCATA	94
TCTCATC	148
TCTCATG	90
TCTCATT	79
TCTCCAA	112
TCTCCAC	123
TCTCCAG	47
TCTCCAT	79
TCTCCCA	83
TCTCCCC	137
TCTCCCG	47
TCTCCCT	152
TCTCCGA	29
TCTCCGC	36
TCTCCGG	36
TCTCCGT	32
TCTCCTA	69
TCTCCTC	234
TCTCCTG	79
TCTCCTT	130
TCTCGAA	61
TCTCGAC	25
TCTCGAG	25
TCTCGAT	79
TCTCGCA	25
TCTCGCC	94
TCTCGCG	22
TCTCGCT	54
TCTCGGA	47
TCTCGGC	51
TCTCGGG	40
TCTCGGT	61
TCTCGTA	47
TCTCGTA	47
TCTCGTG	58
TCTCGTT	58
TCTCTAA	112
TCTCTAC	69
TCTCTAG	144
TCTCTAT	152

TCTCTCA	141
TCTCTCC	180
TCTCTCG	83
TCTCTCT	527
TCTCTGA	54
TCTCTGC	79
TCTCTGG	47
TCTCTGT	87
TCTCTTA	83
TCTCTTC	191
TCTCTTG	159
TCTCTTT	141
TCTGAAA	69
TCTGAAC	51
TCTGAAG	43
TCTGAAT	51
TCTGACA	43
TCTGACC	51
TCTGACG	43
TCTGACT	29
TCTGAGA	58
TCTGAGC	61
TCTGAGG	32
TCTGAGT	18
TCTGATA	54
TCTGATC	65
TCTGATG	69
TCTGATT	69
TCTGCAA	58
TCTGCAC	54
TCTGCAG	51
TCTGCAT	87
TCTGCCA	61
TCTGCCC	40
TCTGCCG	40
TCTGCCT	76
TCTGCGA	32
TCTGCGC	54
TCTGCGG	40
TCTGCGT	51
TCTGCTA	51
TCTGCTC	72
TCTGCTG	112
TCTGCTT	36
TCTGGAA	54
TCTGGAC	36
TCTGGAG	54
TCTGGAT	25
TCTGGCA	51
TCTGGCC	51
TCTGGCG	36
TCTGGCT	40

TCTGGGA	29
TCTGGGC	29
TCTGGGG	51
TCTGGGT	22
TCTGGTA	47
TCTGGTC	32
TCTGGTG	58
TCTGGTT	47
TCTGTAA	43
TCTGTAC	40
TCTGTAG	72
TCTGTAT	51
TCTGTCA	40
TCTGTCC	90
TCTGTCCG	47
TCTGTCT	47
TCTGTGA	51
TCTGTGC	58
TCTGTGG	29
TCTGTGT	76
TCTGTTA	54
TCTGTTC	94
TCTGTTG	87
TCTGTTT	123
TCTTAAA	94
TCTTAAC	29
TCTTAAG	54
TCTTAAT	90
TCTTACA	72
TCTTACC	22
TCTTACG	32
TCTTACT	69
TCTTAGA	61
TCTTAGC	83
TCTTAGG	54
TCTTAGT	94
TCTTATA	76
TCTTATC	76
TCTTATG	61
TCTTATT	155
TCTTCAA	126
TCTTCAC	90
TCTTCAG	61
TCTTCAT	123
TCTTCCA	79
TCTTCCC	119
TCTTCCG	72
TCTTCCT	170
TCTTCGA	69
TCTTCGC	76
TCTTCGG	51
TCTTCGT	94

TCTTCTA	123
TCTTCTC	170
TCTTCTG	58
TCTTCTT	285
TCTTGAA	76
TCTTGAC	43
TCTTGAG	90
TCTTGAT	112
TCTTGCA	112
TCTTGCC	79
TCTTGCG	36
TCTTGCT	112
TCTTGGA	170
TCTTGGC	94
TCTTGGG	51
TCTTGGT	97
TCTTGTA	90
TCTTGTC	79
TCTTGTG	162
TCTTGTT	162
TCTTTAA	123
TCTTTAC	32
TCTTTAG	115
TCTTTAT	123
TCTTTCA	69
TCTTTCC	123
TCTTTCG	40
TCTTTCT	206
TCTTTGA	112
TCTTTGC	105
TCTTTGG	105
TCTTTGT	162
TCTTTTA	119
TCTTTTC	144
TCTTTTG	180
TCTTTTT	245
TGAAAAA	162
TGAAAAC	115
TGAAAAG	123
TGAAAAT	133
TGAAACA	97
TGAAACC	58
TGAAACG	22
TGAAACT	69
TGAAAGA	87
TGAAAGC	54
TGAAAGG	65
TGAAAGT	32
TGAAATA	112
TGAAATC	87
TGAAATG	72
TGAAATT	141

TGAACAA	76
TGAACAC	61
TGAACAG	61
TGAACAT	58
TGAACCA	94
TGAACCC	69
TGAACCG	61
TGAACCT	58
TGAACGA	43
TGAACGC	18
TGAACGG	36
TGAACGT	22
TGAACTA	90
TGAACTC	51
TGAACTG	40
TGAACTT	90
TGAAGAA	159
TGAAGAA	159
TGAAGAG	87
TGAAGAT	87
TGAAGCA	47
TGAAGCC	40
TGAAGCG	40
TGAAGCT	47
TGAAGGA	54
TGAAGGC	32
TGAAGGG	36
TGAAGGT	58
TGAAGTA	40
TGAAGTC	51
TGAAGTG	87
TGAAGTT	90
TGAATAA	115
TGAATAC	29
TGAATAG	76
TGAATAT	105
TGAATCA	87
TGAATCC	61
TGAATCG	40
TGAATCT	72
TGAATGA	65
TGAATGC	76
TGAATGG	58
TGAATGT	65
TGAATTA	108
TGAATTC	51
TGAATTG	65
TGAATTT	119
TGACAAA	115
TGACAAC	72
TGACAAG	65
TGACAAT	72

TGACACA	87
TGACACC	40
TGACACG	51
TGACACT	29
TGACAGA	36
TGACAGC	47
TGACAGG	14
TGACAGT	51
TGACATA	54
TGACATC	51
TGACATG	108
TGACATT	108
TGACCAA	72
TGACCAC	58
TGACCAG	29
TGACCAT	69
TGACCCA	29
TGACCCC	22
TGACCCG	32
TGACCCT	47
TGACCGA	36
TGACCGC	29
TGACCGG	22
TGACCGT	22
TGACCTA	76
TGACCTC	43
TGACCTG	29
TGACCTT	29
TGACGAA	18
TGACGAC	65
TGACGAG	65
TGACGAT	29
TGACGCA	22
TGACGCC	25
TGACGCG	14
TGACGCT	18
TGACGGA	22
TGACGGC	36
TGACGGG	11
TGACGGT	40
TGACGTA	29
TGACGTC	36
TGACGTG	76
TGACGTT	32
TGACTAA	108
TGACTAC	40
TGACTAG	32
TGACTAT	54
TGACTCA	43
TGACTCC	36
TGACTCG	25
TGACTCT	54

TGACTGA	69
TGACTGC	51
TGACTGG	54
TGACTGT	40
TGACTTA	69
TGACTTC	61
TGACTTG	72
TGACTTT	97
TGAGAAA	105
TGAGAAC	32
TGAGAAG	65
TGAGAAT	72
TGAGACA	40
TGAGACA	40
TGAGACC	32
TGAGACG	32
TGAGAGA	83
TGAGAGC	72
TGAGAGG	72
TGAGAGT	69
TGAGATA	61
TGAGATC	54
TGAGATG	90
TGAGATT	69
TGAGCAA	47
TGAGCAC	76
TGAGCAG	72
TGAGCAT	51
TGAGCCA	90
TGAGCCC	90
TGAGCCG	29
TGAGCCT	61
TGAGCGA	29
TGAGCGC	29
TGAGCGG	25
TGAGCGT	29
TGAGCTA	115
TGAGCTC	76
TGAGCTG	58
TGAGCTT	58
TGAGGAA	54
TGAGGAC	43
TGAGGAG	101
TGAGGAT	58
TGAGGCA	51
TGAGGCC	40
TGAGGCG	32
TGAGGCT	29
TGAGGGA	51
TGAGGGC	36
TGAGGGG	47
TGAGGGT	22

TGAGGTA	29
TGAGGTC	18
TGAGGTG	40
TGAGGTT	72
TGAGTAA	76
TGAGTAC	47
TGAGTAG	43
TGAGTAT	69
TGAGTCA	43
TGAGTCC	22
TGAGTCG	29
TGAGTCT	36
TGAGTGA	58
TGAGTGC	54
TGAGTGG	65
TGAGTGT	40
TGAGTTA	54
TGAGTTC	79
TGAGTTG	65
TGAGTTT	119
TGATAAA	108
TGATAAC	40
TGATAAG	65
TGATAAT	76
TGATACA	54
TGATACC	32
TGATACG	25
TGATACT	76
TGATAGA	101
TGATAGC	54
TGATAGG	29
TGATAGT	40
TGATATA	119
TGATATC	40
TGATATG	65
TGATATT	152
TGATCAA	101
TGATCAC	58
TGATCAG	51
TGATCAT	144
TGATCCA	79
TGATCCC	32
TGATCCG	29
TGATCCT	54
TGATCGA	65
TGATCGC	43
TGATCGG	54
TGATCGT	32
TGATCTA	61
TGATCTC	94
TGATCTG	72
TGATCTT	94

TGATGAA	105
TGATGAC	76
TGATGAG	94
TGATGAT	202
TGATGCA	51
TGATGCC	79
TGATGCG	36
TGATGCT	83
TGATGGA	65
TGATGGC	54
TGATGGG	83
TGATGGT	79
TGATGTA	69
TGATGTC	79
TGATGTG	130
TGATGTT	101
TGATTAA	97
TGATTAC	32
TGATTAG	72
TGATTAT	97
TGATTCA	87
TGATTCC	32
TGATTCCG	22
TGATTCT	83
TGATTGA	105
TGATTGC	65
TGATTGG	22
TGATTGT	72
TGATTTA	133
TGATTTTC	65
TGATTTG	148
TGATTTT	220
TGCAAAA	112
TGCAAAC	108
TGCAAAG	83
TGCAAAT	152
TGCAACA	97
TGCAACC	61
TGCAACG	90
TGCAACT	108
TGCAAGA	87
TGCAAGC	83
TGCAAGG	61
TGCAAGT	79
TGCAATA	58
TGCAATA	58
TGCAATC	72
TGCAATT	47
TGCACAA	79
TGCACAC	108
TGCACAG	36
TGCACAT	101

TGCACCA	101
TGCACCC	87
TGCACCG	87
TGCACCT	54
TGCACGA	36
TGCACGC	65
TGCACGG	47
TGCACGT	51
TGCACTA	69
TGCACTC	61
TGCACTG	79
TGCACTT	87
TGCAGAA	61
TGCAGAC	40
TGCAGAG	76
TGCAGAT	47
TGCAGCA	58
TGCAGCC	61
TGCAGCG	51
TGCAGCT	83
TGCAGGA	58
TGCAGGC	51
TGCAGGG	43
TGCAGGT	76
TGCAGTA	40
TGCAGTC	32
TGCAGTG	69
TGCAGTT	69
TGCATAA	101
TGCATAC	69
TGCATAG	79
TGCATAT	101
TGCATCA	83
TGCATCC	51
TGCATCG	22
TGCATCT	87
TGCATGA	141
TGCATGC	216
TGCATGG	144
TGCATGT	119
TGCATTA	97
TGCATTC	54
TGCATTG	105
TGCATTT	184
TGCCAAA	72
TGCCAAC	69
TGCCAAG	72
TGCCAAT	40
TGCCACA	43
TGCCACC	83
TGCCACG	32
TGCCACT	51

TGCCAGA	40
TGCCAGC	58
TGCCAGG	36
TGCCAGT	51
TGCCATA	32
TGCCATC	87
TGCCATG	97
TGCCATT	54
TGCCCAA	61
TGCCCAC	51
TGCCCAG	29
TGCCCAT	79
TGCCCCA	25
TGCCCCA	25
TGCCCCG	32
TGCCCCT	54
TGCCCGA	29
TGCCCGC	32
TGCCCGG	14
TGCCCGT	36
TGCCCTA	29
TGCCCTC	72
TGCCCTG	72
TGCCCTT	97
TGCCGAA	43
TGCCGAC	29
TGCCGAG	97
TGCCGAT	32
TGCCGCA	40
TGCCGCC	105
TGCCGCG	43
TGCCGCT	32
TGCCGGA	32
TGCCGGC	58
TGCCGGG	43
TGCCGGT	40
TGCCGTA	25
TGCCGTC	58
TGCCGTG	65
TGCCGTT	40
TGCCTAA	36
TGCCTAC	47
TGCCTAG	29
TGCCTAT	61
TGCCTCA	79
TGCCTCC	61
TGCCTCG	58
TGCCTCT	94
TGCCTGA	51
TGCCTGC	79
TGCCTGG	32
TGCCTGT	76

TGCCTTA	43
TGCCTTC	79
TGCCTTG	83
TGCCTTT	115
TGCGAAA	36
TGCGAAC	43
TGCGAAG	29
TGCGAAT	14
TGCGACA	32
TGCGACC	29
TGCGACG	43
TGCGACT	36
TGCGAGA	29
TGCGAGC	58
TGCGAGG	36
TGCGAGT	11
TGCGATA	25
TGCGATC	22
TGCGATG	22
TGCGATT	47
TGCGCAA	32
TGCGCAC	43
TGCGCAG	47
TGCGCAT	18
TGCGCCA	69
TGCGCCC	43
TGCGCCG	29
TGCGCCT	51
TGCGCGA	22
TGCGCGC	87
TGCGCGG	43
TGCGCGT	51
TGCGCTA	29
TGCGCTC	32
TGCGCTG	43
TGCGCTT	29
TGCGGAA	22
TGCGGAC	14
TGCGGAG	47
TGCGGAT	32
TGCGGCA	51
TGCGGCC	47
TGCGGCG	32
TGCGGCT	65
TGCGGGA	25
TGCGGGC	36
TGCGGGG	22
TGCGGGT	36
TGCGGTA	18
TGCGGTC	36
TGCGGTG	14
TGCGGTT	43

TGCGTAA	14
TGCGTAC	25
TGCGTAG	32
TGCGTAT	25
TGCGTCA	22
TGCGTCC	47
TGCGTCG	32
TGCGTCT	40
TGCGTGA	58
TGCGTGA	58
TGCGTGC	83
TGCGTGG	72
TGCGTTA	7
TGCGTTC	32
TGCGTTG	51
TGCGTTT	54
TGCTAAA	105
TGCTAAC	87
TGCTAAG	36
TGCTAAT	72
TGCTACA	83
TGCTACC	51
TGCTACG	40
TGCTACT	54
TGCTAGA	76
TGCTAGC	83
TGCTAGG	18
TGCTAGT	61
TGCTATA	123
TGCTATC	36
TGCTATG	58
TGCTATT	72
TGCTCAA	112
TGCTCAC	65
TGCTCAG	25
TGCTCAT	119
TGCTCCA	51
TGCTCCC	83
TGCTCCG	43
TGCTCCT	130
TGCTCGA	43
TGCTCGC	83
TGCTCGG	43
TGCTCGT	47
TGCTCTA	79
TGCTCTC	101
TGCTCTG	79
TGCTCTT	119
TGCTGAA	47
TGCTGAC	51
TGCTGAG	69
TGCTGAT	54

TGCTGCA	61
TGCTGCC	72
TGCTGCG	36
TGCTGCT	108
TGCTGGA	43
TGCTGGC	29
TGCTGGG	58
TGCTGGT	69
TGCTGTA	58
TGCTGTC	36
TGCTGTG	72
TGCTGTT	58
TGCTTAA	79
TGCTTAC	36
TGCTTAG	36
TGCTTAT	90
TGCTTCA	72
TGCTTCC	94
TGCTTCG	58
TGCTTCT	108
TGCTTGA	94
TGCTTGC	72
TGCTTGG	51
TGCTTGT	159
TGCTTTA	97
TGCTTTC	87
TGCTTTG	105
TGCTTTT	137
TGGA AAA	112
TGGA AAC	79
TGGA AAG	90
TGGA AAT	72
TGGA ACA	54
TGGA ACC	61
TGGA ACG	22
TGGA ACT	40
TGGA AGA	94
TGGA AGC	54
TGGA AGG	65
TGGA AGT	76
TGGA ATA	54
TGGA ATA	54
TGGA ATC	36
TGGA ATG	61
TGGA CAA	61
TGGA CAC	54
TGGA CAG	61
TGGA CAT	61
TGGA CCA	87
TGGA CCC	36
TGGA CCG	58
TGGA CCT	72

TGGACGA	43
TGGACGC	32
TGGACGG	36
TGGACGT	40
TGGACTA	36
TGGACTC	83
TGGACTG	65
TGGACTT	101
TGGAGAA	72
TGGAGAC	90
TGGAGAG	97
TGGAGAT	83
TGGAGCA	69
TGGAGCC	47
TGGAGCG	36
TGGAGCT	108
TGGAGGA	90
TGGAGGC	108
TGGAGGG	76
TGGAGGT	83
TGGAGTA	54
TGGAGTC	43
TGGAGTG	51
TGGAGTT	72
TGGATAA	61
TGGATAC	43
TGGATAG	22
TGGATAT	65
TGGATCA	65
TGGATCC	90
TGGATCG	36
TGGATCT	97
TGGATGA	105
TGGATGC	54
TGGATGG	90
TGGATGT	115
TGGATTA	87
TGGATTC	47
TGGATTG	79
TGGATTT	94
TGGCAAA	51
TGGCAAC	54
TGGCAAG	79
TGGCAAT	40
TGGCACA	123
TGGCACC	65
TGGCACG	32
TGGCACT	72
TGGCAGA	43
TGGCAGC	40
TGGCAGG	43
TGGCAGT	32

TGGCATA	94
TGGCATC	79
TGGCATG	87
TGGCATT	90
TGGCCAA	65
TGGCCAC	72
TGGCCAG	87
TGGCCAT	69
TGGCCCA	32
TGGCCCA	32
TGGCCCC	25
TGGCCCT	32
TGGCCGA	22
TGGCCGC	47
TGGCCGG	54
TGGCCGT	58
TGGCCTA	25
TGGCCTC	51
TGGCCTG	58
TGGCCTT	51
TGGCGAA	36
TGGCGAC	29
TGGCGAG	40
TGGCGAT	29
TGGCGCA	83
TGGCGCC	69
TGGCGCG	32
TGGCGCT	54
TGGCGGA	51
TGGCGGC	61
TGGCGGG	47
TGGCGGT	51
TGGCGTA	25
TGGCGTC	36
TGGCGTG	69
TGGCGTT	29
TGGCTAA	51
TGGCTAC	40
TGGCTAG	61
TGGCTAT	51
TGGCTCA	47
TGGCTCC	40
TGGCTCG	47
TGGCTCT	87
TGGCTGA	54
TGGCTGC	54
TGGCTGG	43
TGGCTGT	58
TGGCTTA	22
TGGCTTC	72
TGGCTTG	61
TGGCTTT	61

TGGGAAA	65
TGGGAAC	36
TGGGAAG	76
TGGGAAT	47
TGGGACA	36
TGGGACC	22
TGGGACG	36
TGGGACT	25
TGGGAGA	54
TGGGAGC	47
TGGGAGG	54
TGGGAGT	36
TGGGATA	29
TGGGATC	29
TGGGATG	43
TGGGATT	69
TGGGCAA	61
TGGGCAC	18
TGGGCAG	22
TGGGCAT	40
TGGGCCA	101
TGGGCCC	54
TGGGCCG	32
TGGGCCT	29
TGGGCGA	47
TGGGCGC	25
TGGGCGG	43
TGGGCGT	14
TGGGCTA	51
TGGGCTC	40
TGGGCTG	40
TGGGCTT	61
TGGGGAA	29
TGGGGAC	51
TGGGGAG	51
TGGGGAT	36
TGGGGCA	22
TGGGGCC	47
TGGGGCG	47
TGGGGCT	61
TGGGGGA	32
TGGGGGC	51
TGGGGGG	72
TGGGGGT	61
TGGGGTA	36
TGGGGTC	36
TGGGGTG	54
TGGGGTT	61
TGGGTAA	43
TGGGTAC	29
TGGGTAG	25
TGGGTAT	40

TGGGTCA	7
TGGGTCC	47
TGGGTCG	65
TGGGTCT	22
TGGGTGA	43
TGGGTGC	54
TGGGTGG	47
TGGGTGT	76
TGGGTTA	43
TGGTTTC	61
TGGTTTG	65
TGGTTT	69
TGGTAAA	69
TGGTAAC	29
TGGTAAG	32
TGGTAAT	61
TGGTACA	43
TGGTACC	36
TGGTACG	29
TGGTACT	25
TGGTAGA	58
TGGTAGC	58
TGGTAGG	32
TGGTAGT	36
TGGTATA	54
TGGTATC	54
TGGTATG	72
TGGTATT	101
TGGTCAA	36
TGGTCAC	32
TGGTCAG	43
TGGTCAT	76
TGGTCCA	72
TGGTCCC	22
TGGTCCG	65
TGGTCCT	61
TGGTCGA	47
TGGTCGC	51
TGGTCGG	36
TGGTCGT	65
TGGTCTA	54
TGGTCTA	54
TGGTCTG	58
TGGTCTT	47
TGGTGAA	87
TGGTGAC	58
TGGTGAG	65
TGGTGAT	115
TGGTGCA	119
TGGTGCC	58
TGGTGCG	61
TGGTGCT	76

TGGTGGA	54
TGGTGGC	112
TGGTGGG	58
TGGTGGT	115
TGGTGTA	65
TGGTGTC	79
TGGGTG	76
TGGTGTT	101
TGGTTAA	40
TGGTTAC	32
TGGTTAG	69
TGGTTAT	72
TGGTTCA	43
TGGTTCC	54
TGGTTCCG	43
TGGTTCT	87
TGGTTGA	87
TGGTTGC	69
TGGTTGG	105
TGGTTGT	90
TGGTTTA	90
TGGTTTC	94
TGGTTTG	144
TGGTTTT	133
TGTAAAA	159
TGTAAAC	87
TGTAAAG	61
TGTAAAT	119
TGTAACA	54
TGTAACC	47
TGTAACG	40
TGTAACT	79
TGTAAGA	65
TGTAAGC	40
TGTAAGG	43
TGTAAGT	36
TGTAATA	105
TGTAATC	58
TGTAATG	69
TGTAATT	130
TGTACAA	61
TGTACAC	72
TGTACAG	36
TGTACAT	123
TGTACCA	54
TGTACCC	36
TGTACCG	25
TGTACCT	47
TGTACGA	32
TGTACGC	22
TGTACGG	25
TGTACGT	79

TGTA	65
TGTACTC	58
TGTACTG	72
TGTACTT	40
TGTAGAA	97
TGTAGAA	97
TGTAGAC	29
TGTAGAT	87
TGTAGCA	65
TGTAGCC	79
TGTAGCG	29
TGTAGCT	97
TGTAGGA	54
TGTAGGC	29
TGTAGGG	69
TGTAGGT	22
TGTAGTA	47
TGTAGTC	61
TGTAGTG	119
TGTAGTT	61
TGTATAA	108
TGTATAC	76
TGTATAG	61
TGTATAT	159
TGTATCA	65
TGTATCC	43
TGTATCG	29
TGTATCT	76
TGTATGA	72
TGTATGC	47
TGTATGG	72
TGTATGT	87
TGTATTA	108
TGTATTC	76
TGTATTG	65
TGTATTT	180
TGTCAAA	97
TGTCAAC	51
TGTCAAG	40
TGTCAAT	83
TGTCACA	72
TGTCACC	79
TGTCACG	51
TGTCACT	76
TGTCAGA	29
TGTCAGC	69
TGTCAGG	43
TGTCAGT	51
TGTCATA	69
TGTCATC	65
TGTCATG	97
TGTCATT	69

TGTCAA	72
TGTCCAC	61
TGTCCAG	32
TGTCCAT	83
TGTCCCA	40
TGTCCCC	29
TGTCCCG	22
TGTCCCT	61
TGTCCGA	36
TGTCCGC	40
TGTCCGG	148
TGTCCGT	32
TGCCTA	36
TGCCTC	51
TGCCTG	72
TGCCTT	69
TGTCGAA	32
TGTCGAC	58
TGTCGAG	51
TGTCGAT	29
TGTCGCA	47
TGTCGCC	25
TGTCGCG	36
TGTCGCT	36
TGTCGGA	18
TGTCGGA	18
TGTCGGG	40
TGTCGGT	29
TGTCGTA	40
TGTCGTC	65
TGTCGTG	69
TGTCGTT	36
TGTCTAA	83
TGTCTAC	22
TGTCTAG	83
TGTCTAT	94
TGTCTCA	65
TGTCTCC	69
TGTCTCG	54
TGTCTCT	133
TGTCTGA	32
TGTCTGC	90
TGTCTGG	51
TGTCTGT	61
TGTCTTA	65
TGTCTTC	90
TGTCTTG	119
TGTCTTT	159
TGTGAAA	87
TGTGAAC	94
TGTGAAG	83
TGTGAAT	97

TGTGACA	83
TGTGACC	25
TGTGACG	14
TGTGACT	47
TGTGAGA	76
TGTGAGC	43
TGTGAGG	47
TGTGAGT	65
TGTGATA	87
TGTGATC	54
TGTGATG	123
TGTGATT	101
TGTGCAA	87
TGTGCAC	79
TGTGCAG	65
TGTGCAT	119
TGTGCCA	97
TGTGCCC	40
TGTGCCG	11
TGTGCCT	72
TGTGCGA	32
TGTGCGC	40
TGTGCGG	54
TGTGCGT	69
TGTGCTA	94
TGTGCTC	79
TGTGCTG	47
TGTGCTT	90
TGTGGAA	58
TGTGGAC	65
TGTGGAG	69
TGTGGAT	83
TGTGGCA	76
TGTGGCC	72
TGTGGCG	47
TGTGGCT	54
TGTGGGA	32
TGTGGGC	29
TGTGGGG	61
TGTGGGT	47
TGTGGTA	79
TGTGGTC	51
TGTGGTG	94
TGTGGTT	83
TGTGTAA	61
TGTGTAC	79
TGTGTAG	76
TGTGTAT	108
TGTGTCA	76
TGTGTCC	51
TGTGTCCG	61
TGTGTCT	105

TGTGTGA	58
TGTGTGC	90
TGTGTGG	79
TGTGTGT	137
TGTGTTA	65
TGTGTTT	119
TGTGTTG	166
TGTGTTT	159
TGTTAAA	72
TGTTAAC	32
TGTTAAG	69
TGTTAAT	87
TGTTACA	76
TGTTACC	43
TGTTACG	43
TGTTACT	61
TGTTAGA	69
TGTTAGC	72
TGTTAGG	29
TGTTAGT	87
TGTTATA	76
TGTTATC	76
TGTTATG	79
TGTTATT	130
TGTTCAA	101
TGTTCAC	83
TGTTCAG	36
TGTTCAT	119
TGTTCCA	72
TGTTCCC	72
TGTTCCG	14
TGTTCCT	72
TGTTCGA	40
TGTTCGC	29
TGTTCGG	47
TGTTCGT	79
TGTTCTA	108
TGTTCTC	87
TGTTCTG	101
TGTTCTT	141
TGTTGAA	94
TGTTGAC	72
TGTTGAG	101
TGTTGAT	166
TGTTGCA	108
TGTTGCC	83
TGTTGCG	40
TGTTGCT	155
TGTTGGA	83
TGTTGGC	76
TGTTGGG	58
TGTTGGT	69

TGTTGTA	101
TGTTGTC	97
TGTTGTG	130
TGTTGTT	123
TGTTTAA	105
TGTTTAC	58
TGTTTAG	87
TGTTTAT	159
TGTTTCA	108
TGTTTCC	108
TGTTTCG	54
TGTTTCT	137
TGTTTGA	119
TGTTTGC	79
TGTTTGG	162
TGTTTGT	159
TGTTTTA	159
TGTTTTC	101
TGTTTTG	170
TGTTTTT	281
TTAAAAA	274
TTAAAAC	69
TTAAAAG	94
TTAAAAT	220
TTAAACA	97
TTAAACC	90
TTAAACG	29
TTAAACT	137
TTAAAGA	126
TTAAAGC	51
TTAAAGG	47
TTAAAGT	97
TTAAATA	231
TTAAATC	94
TTAAATG	126
TTAAATT	238
TTAACAA	126
TTAACAC	47
TTAACAG	25
TTAACAT	79
TTAACCA	29
TTAACCC	47
TTAACCG	25
TTAACCT	36
TTAACGA	22
TTAACGC	11
TTAACGG	22
TTAACGT	40
TTAACTA	58
TTAACTC	76
TTAACTG	32
TTAACTT	65

TTAAGAA	87
TTAAGAC	29
TTAAGAG	51
TTAAGAT	76
TTAAGCA	76
TTAAGCA	76
TTAAGCC	25
TTAAGCG	14
TTAAGGA	54
TTAAGGC	51
TTAAGGG	65
TTAAGGT	51
TTAAGTA	61
TTAAGTC	54
TTAAGTG	65
TTAAGTT	87
TTAATAA	170
TTAATAC	69
TTAATAG	79
TTAATAT	155
TTAATCA	72
TTAATCC	58
TTAATCG	40
TTAATCT	101
TTAATGA	87
TTAATGC	65
TTAATGG	61
TTAATGT	101
TTAATTA	224
TTAATTC	97
TTAATTG	87
TTAATTT	281
TTACAAA	166
TTACAAC	54
TTACAAG	105
TTACAAT	65
TTACACA	76
TTACACC	40
TTACACG	25
TTACACT	58
TTACAGA	43
TTACAGC	25
TTACAGG	22
TTACAGT	29
TTACATA	101
TTACATC	61
TTACATG	51
TTACATT	61
TTACCAA	58
TTACCAC	25
TTACCAG	29
TTACCAT	43

TTACCCA	54
TTACCCC	36
TTACCCG	14
TTACCCT	51
TTACCGA	32
TTACCGC	18
TTACCGG	36
TTACCGT	29
TTACCTA	51
TTACCTC	36
TTACCTG	29
TTACCTT	43
TTACGAA	18
TTACGAC	25
TTACGAG	11
TTACGAT	25
TTACGCA	22
TTACGCC	22
TTACGCG	11
TTACGCT	14
TTACGGA	22
TTACGGC	11
TTACGGG	25
TTACGGT	25
TTACGTA	22
TTACGTA	22
TTACGTC	14
TTACGTT	22
TTACTAA	79
TTACTAC	51
TTACTAG	69
TTACTAT	87
TTACTCA	54
TTACTCC	54
TTACTCG	25
TTACTCT	101
TTACTGA	69
TTACTGC	29
TTACTGG	32
TTACTGT	58
TTACTTA	79
TTACTTC	36
TTACTTG	61
TTACTTT	76
TTAGAAA	105
TTAGAAC	36
TTAGAAG	47
TTAGAAT	76
TTAGACA	65
TTAGACA	65
TTAGACG	36
TTAGACT	51

TTAGAGA	72
TTAGAGC	43
TTAGAGG	83
TTAGAGT	61
TTAGATA	90
TTAGATC	69
TTAGATG	58
TTAGATT	101
TTAGCAA	83
TTAGCAC	58
TTAGCAG	40
TTAGCAT	61
TTAGCCA	69
TTAGCCC	65
TTAGCCG	14
TTAGCCT	61
TTAGCGA	36
TTAGCGC	29
TTAGCGG	29
TTAGCGT	40
TTAGCTA	90
TTAGCTC	65
TTAGCTG	47
TTAGCTT	101
TTAGGAA	83
TTAGGAC	51
TTAGGAG	36
TTAGGAT	72
TTAGGCA	51
TTAGGCC	43
TTAGGCG	29
TTAGGCT	43
TTAGGGA	61
TTAGGGC	47
TTAGGGG	69
TTAGGGT	54
TTAGGTA	51
TTAGGTC	58
TTAGGTG	69
TTAGGTT	51
TTAGTAA	79
TTAGTAC	61
TTAGTAG	72
TTAGTAT	72
TTAGTCA	72
TTAGTCC	69
TTAGTCG	29
TTAGTCT	87
TTAGTGA	94
TTAGTGC	54
TTAGTGG	61
TTAGTGT	76

TTAGTTA	69
TTAGTTC	87
TTAGTTG	65
TTAGTTT	105
TTATAAA	191
TTATAAC	87
TTATAAG	72
TTATAAT	184
TTATACA	87
TTATACC	40
TTATACG	54
TTATACT	94
TTATAGA	112
TTATAGC	105
TTATAGG	36
TTATAGT	97
TTATATA	271
TTATATC	83
TTATATG	105
TTATATT	256
TTATCAA	101
TTATCAC	76
TTATCAG	43
TTATCAT	112
TTATCCA	69
TTATCCC	61
TTATCCG	47
TTATCCT	61
TTATCGA	25
TTATCGC	22
TTATCGG	25
TTATCGT	22
TTATCTA	97
TTATCTC	58
TTATCTG	51
TTATCTT	173
TTATGAA	101
TTATGAC	54
TTATGAG	43
TTATGAT	90
TTATGCA	112
TTATGCC	32
TTATGCG	43
TTATGCT	90
TTATGGA	83
TTATGGC	51
TTATGGG	43
TTATGGT	79
TTATGTA	79
TTATGTC	51
TTATGTG	94
TTATGTT	148

TTATTAA	115
TTATTAC	87
TTATTAG	97
TTATTAT	314
TTATTCA	108
TTATTCC	58
TTATTCG	18
TTATTCT	133
TTATTGA	97
TTATTGC	87
TTATTGG	72
TTATTGT	166
TTATTTA	271
TTATTTG	101
TTATTTT	198
TTATTTT	317
TTCAAAA	152
TTCAAAC	119
TTCAAAG	87
TTCAAAT	170
TTCAACA	72
TTCAACC	90
TTCAACG	25
TTCAACT	69
TTCAAGA	115
TTCAAGC	51
TTCAAGG	51
TTCAAGT	83
TTCAATA	72
TTCAATC	101
TTCAATG	61
TTCAATT	152
TTCACAA	83
TTCACAC	43
TTCACAG	25
TTCACAT	126
TTCACCA	72
TTCACCC	79
TTCACCG	76
TTCACCT	58
TTCACGA	36
TTCACGC	32
TTCACGG	29
TTCACGT	32
TTCACTA	65
TTCACTC	65
TTCACTG	69
TTCACTT	105
TTCAGAA	65
TTCAGAC	43
TTCAGAG	54
TTCAGAT	69

TTCAGCA	61
TTCAGCC	47
TTCAGCG	25
TTCAGCT	47
TTCAGGA	58
TTCAGGC	43
TTCAGGG	18
TTCAGGT	43
TTCAGTA	58
TTCAGTC	65
TTCAGTG	25
TTCAGTT	94
TTCATAA	97
TTCATAC	65
TTCATAG	72
TTCATAT	130
TTCATCA	130
TTCATCC	83
TTCATCG	76
TTCATCT	123
TTCATGA	83
TTCATGC	101
TTCATGG	83
TTCATGT	123
TTCATTA	79
TTCATTC	130
TTCATTG	69
TTCATTT	170
TTCCAAA	108
TTCCAAC	79
TTCCAAG	101
TTCCAAT	94
TTCCACA	58
TTCCACC	72
TTCCACG	58
TTCCACT	65
TTCCAGA	69
TTCCAGC	61
TTCCAGG	79
TTCCAGT	43
TTCCATA	76
TTCCATC	94
TTCCATG	69
TTCCATT	61
TTCCCAA	90
TTCCCAC	61
TTCCCAG	36
TTCCCAT	61
TTCCCCA	97
TTCCCCC	94
TTCCCCG	54
TTCCCCT	105

TTCCCGA	18
TTCCCGA	18
TTCCCGC	25
TTCCCGG	29
TTCCCTA	54
TTCCCTC	101
TTCCCTG	61
TTCCCTT	130
TTCCGAA	32
TTCCGAC	22
TTCCGAG	22
TTCCGAT	58
TTCCGCA	22
TTCCGCC	36
TTCCGCG	18
TTCCGCT	36
TTCCGGA	14
TTCCGGC	40
TTCCGGG	43
TTCCGGT	29
TTCCGTA	11
TTCCGTC	32
TTCCGTG	32
TTCCGTT	40
TTCCTAA	69
TTCCTAC	36
TTCCTAG	51
TTCCTAT	83
TTCCTCA	79
TTCCTCC	137
TTCCTCG	54
TTCCTCT	105
TTCCTGA	61
TTCCTGC	83
TTCCTGG	43
TTCCTGT	83
TTCCTTA	90
TTCCTTC	119
TTCCTTG	137
TTCCTTT	184
TTCGAAA	51
TTCGAAC	51
TTCGAAG	29
TTCGAAT	40
TTCGACA	36
TTCGACC	25
TTCGACG	47
TTCGACT	32
TTCGAGA	65
TTCGAGC	36
TTCGAGG	25
TTCGAGT	51

TTCGATA	29
TTCGATC	90
TTCGATG	40
TTCGATT	61
TTCGCAA	32
TTCGCAC	11
TTCGCAG	22
TTCGCAT	54
TTCGCCA	32
TTCGCCC	51
TTCGCCG	54
TTCGCCT	29
TTCGCGA	11
TTCGCGC	22
TTCGCGG	25
TTCGCGT	14
TTCGCTA	14
TTCGCTC	43
TTCGCTG	25
TTCGCTT	65
TTCGGAA	29
TTCGGAC	22
TTCGGAG	18
TTCGGAT	65
TTCGGCA	4
TTCGGCC	32
TTCGGCG	47
TTCGGCT	51
TTCGGGA	25
TTCGGGC	32
TTCGGGG	29
TTCGGGT	32
TTCGGTA	29
TTCGGTC	40
TTCGGTG	40
TTCGGTT	97
TTCGTAA	29
TTCGTAC	18
TTCGTAG	32
TTCGTAT	32
TTCGTCA	54
TTCGTCC	90
TTCGTCCG	87
TTCGTCT	54
TTCGTGA	51
TTCGTGA	51
TTCGTGG	51
TTCGTGT	69
TTCGTTA	61
TTCGTTC	112
TTCGTTG	36
TTCGTTT	119

TTCTAAA	195
TTCTAAC	65
TTCTAAG	79
TTCTAAT	101
TTCTACA	87
TTCTACC	65
TTCTACG	25
TTCTACT	112
TTCTAGA	141
TTCTAGC	40
TTCTAGG	36
TTCTAGT	72
TTCTATA	105
TTCTATC	61
TTCTATG	65
TTCTATT	101
TTCTCAA	126
TTCTCAC	43
TTCTCAG	32
TTCTCAT	94
TTCTCCA	72
TTCTCCC	126
TTCTCCG	18
TTCTCCT	177
TTCTCGA	40
TTCTCGC	43
TTCTCGG	54
TTCTCGT	61
TTCTCTA	162
TTCTCTC	155
TTCTCTG	97
TTCTCTT	159
TTCTGAA	58
TTCTGAC	29
TTCTGAG	65
TTCTGAT	58
TTCTGCA	83
TTCTGCC	51
TTCTGCG	29
TTCTGCT	54
TTCTGGA	76
TTCTGGC	47
TTCTGGG	32
TTCTGGT	61
TTCTGTA	65
TTCTGTC	69
TTCTGTG	65
TTCTGTT	101
TTCTTAA	97
TTCTTAA	97
TTCTTAC	69
TTCTTAT	159

TTCTTCA	130
TTCTTCC	148
TTCTTCG	101
TTCTTCT	263
TTCTTGA	105
TTCTTGC	112
TTCTTGG	94
TTCTTGT	144
TTCTTTA	130
TTCTTTC	137
TTCTTTG	141
TTCTTTT	289
TTGAAAA	195
TTGAAAC	65
TTGAAAG	72
TTGAAAT	166
TTGAACA	43
TTGAACC	87
TTGAACG	14
TTGAACT	83
TTGAAGA	69
TTGAAGC	25
TTGAAGG	47
TTGAAGT	94
TTGAATA	130
TTGAATA	130
TTGAATG	79
TTGAATT	97
TTGACAA	94
TTGACAC	47
TTGACAG	51
TTGACAT	123
TTGACCA	54
TTGACCC	47
TTGACCG	14
TTGACCT	40
TTGACGA	43
TTGACGC	18
TTGACGG	18
TTGACGT	36
TTGACTA	61
TTGACTC	58
TTGACTG	58
TTGACTT	101
TTGAGAA	79
TTGAGAC	58
TTGAGAG	83
TTGAGAT	76
TTGAGCA	58
TTGAGCC	76
TTGAGCG	32
TTGAGCT	90

TTGAGGA	126
TTGAGGC	51
TTGAGGG	51
TTGAGGT	69
TTGAGTA	83
TTGAGTC	69
TTGAGTG	54
TTGAGTT	101
TTGATAA	87
TTGATAC	43
TTGATAG	72
TTGATAT	108
TTGATCA	126
TTGATCC	69
TTGATCG	97
TTGATCT	130
TTGATGA	119
TTGATGC	94
TTGATGG	79
TTGATGT	90
TTGATTA	105
TTGATTC	76
TTGATTG	83
TTGATTT	209
TTGCAAA	159
TTGCAAC	119
TTGCAAG	90
TTGCAAT	69
TTGCACA	72
TTGCACC	69
TTGCACG	47
TTGCACT	61
TTGCAGA	72
TTGCAGC	61
TTGCAGG	69
TTGCAGT	65
TTGCATA	87
TTGCATC	69
TTGCATG	137
TTGCATT	170
TTGCCAA	65
TTGCCAC	69
TTGCCAG	36
TTGCCAT	94
TTGCCCA	58
TTGCCCC	51
TTGCCCG	29
TTGCCCT	58
TTGCCGA	97
TTGCCGC	61
TTGCCGG	29
TTGCCGT	51

TTGCCTA	25
TTGCCTC	79
TTGCCTG	43
TTGCCTT	97
TTGCGAA	29
TTGCGAC	43
TTGCGAG	32
TTGCGAT	22
TTGCGCA	32
TTGCGCC	47
TTGCGCG	51
TTGCGCT	29
TTGCGGA	32
TTGCGGC	25
TTGCGGG	29
TTGCGGT	29
TTGCGTA	18
TTGCGTC	36
TTGCGTG	47
TTGCGTT	43
TTGCTAA	115
TTGCTAC	61
TTGCTAG	83
TTGCTAT	76
TTGCTCA	97
TTGCTCC	97
TTGCTCG	79
TTGCTCT	133
TTGCTGA	54
TTGCTGC	40
TTGCTGG	43
TTGCTGT	58
TTGCTTA	65
TTGCTTC	130
TTGCTTG	112
TTGCTTT	166
TTGAAA	126
TTGGAAC	54
TTGGAAG	90
TTGGAAT	115
TTGACA	79
TTGACC	72
TTGACG	43
TTGACT	119
TTGAGA	90
TTGAGC	76
TTGAGG	108
TTGAGT	90
TTGATA	90
TTGATC	97
TTGATG	119
TTGATT	112

TTGGCAA	94
TTGGCAC	76
TTGGCAG	58
TTGGCAT	133
TTGGCCA	97
TTGGCCC	29
TTGGCCG	54
TTGGCCT	40
TTGGCGA	29
TTGGCGC	87
TTGGCGG	47
TTGGCGT	36
TTGGCTA	58
TTGGCTC	76
TTGGCTG	58
TTGGCTT	87
TTGGGAA	51
TTGGGAC	22
TTGGGAG	72
TTGGGAT	51
TTGGGCA	36
TTGGGCC	47
TTGGGCG	29
TTGGGCT	65
TTGGGGA	54
TTGGGGC	40
TTGGGGG	61
TTGGGGT	43
TTGGGTA	47
TTGGGTC	25
TTGGGTG	58
TTGGGTT	83
TTGGTAA	79
TTGGTAC	36
TTGGTAG	61
TTGGTAT	69
TTGGTCA	43
TTGGTCC	54
TTGGTCG	51
TTGGTCT	90
TTGGTGA	148
TTGGTGA	148
TTGGTGC	58
TTGGTGT	123
TTGGTTA	87
TTGGTTC	79
TTGGTTG	108
TTGGTTT	173
TTGTAAG	72
TTGTAAC	58
TTGTAAG	72
TTGTAAT	130

TTGTACA	72
TTGTACC	61
TTGTACG	22
TTGTA CT	61
TTGTAGA	79
TTGTAGC	76
TTGTAGG	43
TTGTAGT	79
TTGTATA	105
TTGTATC	87
TTGTATG	54
TTGTATT	166
TTGTCAA	108
TTGTCAC	112
TTGTCAG	69
TTGTCAT	94
TTGTCCA	76
TTGTCCC	47
TTGTCCG	25
TTGTCCT	72
TTGTCGA	54
TTGTCGC	43
TTGTCGG	7
TTGTCGT	22
TTGTCTA	101
TTGTCTC	97
TTGTCTG	87
TTGTCTT	177
TTGTGAA	115
TTGTGAC	47
TTGTGAG	76
TTGTGAT	123
TTGTGCA	105
TTGTGCC	69
TTGTGCG	14
TTGTGCT	123
TTGTGGA	97
TTGTGGC	97
TTGTGGG	65
TTGTGGT	72
TTGTGTA	83
TTGTGTC	76
TTGTGTG	126
TTGTGTT	238
TTGTTAA	87
TTGTTAA	87
TTGTTAC	69
TTGTTAG	79
TTGTTCA	112
TTGTTCC	69
TTGTTCG	83
TTGTTCT	133

TTGTTGA	184
TTGTTGC	137
TTGTTGG	105
TTGTTGT	108
TTGTTTA	198
TTGTTTC	148
TTGTTTG	206
TTGTTTT	289
TTTAAAA	271
TTTAAAC	97
TTTAAAG	112
TTTAAAT	310
TTTAACA	87
TTTAACC	51
TTTAACG	18
TTTAACT	101
TTTAAGA	101
TTTAAGC	54
TTTAAGG	79
TTTAAGT	115
TTTAATA	202
TTTAATC	101
TTTAATG	115
TTTAATT	281
TTTACAA	101
TTTACAC	61
TTTACAG	25
TTTACAT	90
TTTACCA	69
TTTACCC	54
TTTACCG	51
TTTACCT	54
TTTACGA	22
TTTACGC	32
TTTACGG	25
TTTACGT	32
TTTACTA	101
TTTACTC	69
TTTACTG	87
TTTACTT	101
TTTAGAA	123
TTTAGAC	47
TTTAGAG	87
TTTAGAT	105
TTTAGCA	94
TTTAGCC	61
TTTAGCG	58
TTTAGCT	97
TTTAGGA	112
TTTAGGC	65
TTTAGGG	72
TTTAGGT	83

TTTAGTA	108
TTTAGTC	105
TTTAGTG	115
TTTAGTT	152
TTTATAA	206
TTTATAC	115
TTTATAG	137
TTTATAT	253
TTTATCA	144
TTTATCC	97
TTTATCG	25
TTTATCT	137
TTTATGA	108
TTTATGC	105
TTTATGG	94
TTTATGT	148
TTTATTA	224
TTTATTC	123
TTTATTG	144
TTTATTT	361
TTTCAAA	184
TTTCAAC	90
TTTCAAG	97
TTTCAAT	126
TTTCACA	87
TTTCACC	65
TTTCACG	32
TTTCACT	105
TTTCAGA	54
TTTCAGC	47
TTTCAGG	54
TTTCAGT	83
TTTCATA	119
TTTCATC	65
TTTCATG	133
TTTCATT	155
TTTCCAA	155
TTTCCAC	97
TTTCCAG	69
TTTCCAT	79
TTTCCCA	79
TTTCCCC	123
TTTCCCG	54
TTTCCCT	112
TTTCCGA	47
TTTCCGC	29
TTTCCGG	11
TTTCCGT	36
TTTCCTA	61
TTTCCTC	94
TTTCCTG	101
TTTCCTT	177

TTTCGAA	36
TTTCGAC	25
TTTCGAG	43
TTTCGAT	61
TTTCGCA	47
TTTCGCC	36
TTTCGCG	14
TTTCGCT	54
TTTCGGA	40
TTTCGGC	36
TTTCGGG	25
TTTCGGT	79
TTTCGTA	25
TTTCGTA	25
TTTCGTC	87
TTTCGTG	58
TTTCTAA	195
TTTCTAC	108
TTTCTAG	112
TTTCTAT	94
TTTCTCA	97
TTTCTCC	130
TTTCTCG	94
TTTCTCT	224
TTTCTGA	94
TTTCTGC	69
TTTCTGG	83
TTTCTGT	123
TTTCTTA	144
TTTCTTC	173
TTTCTTG	137
TTTCTTT	314
TTTGAAA	206
TTTGAAC	101
TTTGAAG	97
TTTGAAT	137
TTTGACA	105
TTTGACA	105
TTTGACC	61
TTTGACT	119
TTTGAGA	108
TTTGAGC	87
TTTGAGG	94
TTTGAGT	112
TTTGATA	141
TTTGATC	173
TTTGATG	170
TTTGATT	152
TTTGCAA	137
TTTGCAC	69
TTTGCAG	101
TTTGCAT	155

TTTGCCA	69
TTTGCCC	51
TTTGCCG	101
TTTGCCT	90
TTTGCGA	40
TTTGCGC	22
TTTGCGG	18
TTTGCGT	47
TTTGCTA	115
TTTGCTC	144
TTTGCTG	43
TTTGCTT	180
TTTGGAA	133
TTTGGAC	105
TTTGGAG	101
TTTGGAT	152
TTTGGCA	170
TTTGGCC	61
TTTGGCG	40
TTTGGCT	90
TTTGGGA	58
TTTGGGC	54
TTTGGGG	61
TTTGGGT	90
TTTGGTA	90
TTTGGTC	108
TTTGGTG	170
TTTGGTT	177
TTTGTA	173
TTTGTAC	47
TTTGTAG	69
TTTGTAT	159
TTTGTCA	137
TTTGTCC	83
TTTGTCCG	25
TTTGTCT	188
TTTGTGA	141
TTTGTGC	97
TTTGTGG	97
TTTGTGT	191
TTTGTTA	115
TTTG TTC	133
TTTGTTG	191
TTTGTTT	372
TTTTAAA	253
TTTTAAC	133
TTTTAAG	115
TTTTAAT	249
TTTTACA	72
TTTTACC	97
TTTTACG	54
TTTTACT	144

TTTTAGA	112
TTTTAGC	90
TTTTAGG	87
TTTTAGT	191
TTTTATA	238
TTTTATC	112
TTTTATG	155
TTTTATT	368
TTTTCAA	144
TTTTCAC	119
TTTTCAG	90
TTTTCAT	180
TTTTCCA	119
TTTTCCC	144
TTTTCCG	29
TTTTCCT	162
TTTTCGA	25
TTTTCGC	61
TTTTCGG	65
TTTTCGT	112
TTTTCTA	184
TTTTCTC	173
TTTTCTG	112
TTTTCTT	296
TTTTGAA	177
TTTTGAC	79
TTTTGAG	115
TTTTGAT	209
TTTTGCA	184
TTTTGCC	83
TTTTGCG	29
TTTTGCT	144
TTTTGGA	155
TTTTGGC	94
TTTTGGG	87
TTTTGGT	195
TTTTGTA	166
TTTTGTC	130
TTTTGTG	188
TTTTGTT	278
TTTTTAA	310
TTTTTAC	133
TTTTTAG	184
TTTTTAT	346
TTTTTCA	191
TTTTTCC	130
TTTTTCG	76
TTTTTCT	263
TTTTTGA	195
TTTTTGC	123
TTTTTGG	206
TTTTTGT	253

TTTTTTA	408
TTTTTTC	249
TTTTTTG	310
TTTTTTT	743