

Aligned using an external algorithm

Consensus

1. First analysis after plaque purification
2. Analysis after seven cycles of amplification

1	1	CATCATCAATAATATACCTTATTTTGGATTGAAGCCAATATGATAATGAGGGGGTGGAGT	60
2	1	CATCATCAATAATATACCTTATTTTGGATTGAAGCCAATATGATAATGAGGGGGTGGAGT	60
1	61	TTGTGACGTGGCGCGGGGCGTGGGAACGGGGCGGGTGACGTAGTAGTGTGGCGGAAGTGT	120
2	61	TTGTGACGTGGCGCGGGGCGTGGGAACGGGGCGGGTGACGTAGTAGTGTGGCGGAAGTGT	120
1	121	GATGTTGCAAGTGTGGCGGAACACATGTAAGCGACGGATGTGGCAAAGTGACGTTTTTG	180
2	121	GATGTTGCAAGTGTGGCGGAACACATGTAAGCGACGGATGTGGCAAAGTGACGTTTTTG	180
1	181	GTGTGCGCCGGTGTACACAGGAAGTGACAATTTTCGCGCGGTTTTAGGCGGATGTTGTAG	240
2	181	GTGTGCGCCGGTGTACACAGGAAGTGACAATTTTCGCGCGGTTTTAGGCGGATGTTGTAG	240
1	241	TAAATTTGGGCGTAACCGAGTAAGATTTGGCCATTTTCGCGGGAAAAGTGAATAAGAGGA	300
2	241	TAAATTTGGGCGTAACCGAGTAAGATTTGGCCATTTTCGCGGGAAAAGTGAATAAGAGGA	300
1	301	AGTGAAATCTGAATAATTTTGTGTTACTCATAGCGCGTAATATTTGTCTAGGGCCGCGGG	360
2	301	AGTGAAATCTGAATAATTTTGTGTTACTCATAGCGCGTAATATTTGTCTAGGGCCGCGGG	360
1	361	GACTTTGACCGTTTACGTGGAGACTCGCCAGGTGTTTTTCTCAGGTGTTTTCCGCGTTC	420
2	361	GACTTTGACCGTTTACGTGGAGACTCGCCAGGTGTTTTTCTCAGGTGTTTTCCGCGTTC	420
1	421	CGGGTCAAAGTTGGCGTTTTATTATTATAGTCAGCTGACGTGTAGTGTATTTATACCCGG	480
2	421	CGGGTCAAAGTTGGCGTTTTATTATTATAGTCAGCTGACGTGTAGTGTATTTATACCCGG	480
1	481	TGAGTTCCTCAAGAGGCCACTCTTGAGTGCCAGCGAGTAGAGTTTTCTCCTCCGAGCCGC	540
2	481	TGAGTTCCTCAAGAGGCCACTCTTGAGTGCCAGCGAGTAGAGTTTTCTCCTCCGAGCCGC	540

1	541	TCCGACACCGGGACTGAAAATGAGACATATTATCTGCCACGGAGGTGTTATTACCGAAGA	600
2	541	TCCGACACCGGGACTGAAAATGAGACATATTATCTGCCACGGAGGTGTTATTACCGAAGA	600
1	601	AATGGCCGCCAGTCTTTTGGACCAGCTGATCGAAGAGGTACTGGCTGATAATCTTCCACC	660
2	601	AATGGCCGCCAGTCTTTTGGACCAGCTGATCGAAGAGGTACTGGCTGATAATCTTCCACC	660
1	661	TCCTAGCCATTTTGAACCACCTACCCTTACGAACTGTATGATTTAGACGTGACGGCCCC	720
2	661	TCCTAGCCATTTTGAACCACCTACCCTTACGAACTGTATGATTTAGACGTGACGGCCCC	720
1	721	CGAAGATCCCAACGAGGAGGCGGTTTTCGCAGATTTTTTCCGACTCTGTAATGTTGGCGGT	780
2	721	CGAAGATCCCAACGAGGAGGCGGTTTTCGCAGATTTTTTCCGACTCTGTAATGTTGGCGGT	780
1	781	GCAGGAAGGGATTGACTTACTCACTTTTCCGCCGGCGCCCGGTTCTCCGGAGCCGCCTCA	840
2	781	GCAGGAAGGGATTGACTTACTCACTTTTCCGCCGGCGCCCGGTTCTCCGGAGCCGCCTCA	840
1	841	CCTTTCCCGGCAGCCCGAGCAGCCGGAGCAGAGAGCCTTGGGTCCGGTTTCTATGCCAAA	900
2	841	CCTTTCCCGGCAGCCCGAGCAGCCGGAGCAGAGAGCCTTGGGTCCGGTTTCTATGCCAAA	900
1	901	CCTTGTACCGGAGGTGATCGATCCACCCAGTGACGACGAGGATGAAGAGGGTGAGGAGTT	960
2	901	CCTTGTACCGGAGGTGATCGATCCACCCAGTGACGACGAGGATGAAGAGGGTGAGGAGTT	960
1	961	TGTGTTAGATTATGTGGAGCACCCCGGGCACGGTTGCAGGTCTTGTCATTATCACCGGAG	1020
2	961	TGTGTTAGATTATGTGGAGCACCCCGGGCACGGTTGCAGGTCTTGTCATTATCACCGGAG	1020
1	1021	GAATACGGGGACCCAGATATTATGTGTTTCGCTTTGCTATATGAGGACCTGTGGCATGTT	1080
2	1021	GAATACGGGGACCCAGATATTATGTGTTTCGCTTTGCTATATGAGGACCTGTGGCATGTT	1080
1	1081	TGTCTACAGTAAGTGAAAATTATGGGCAGTGGGTGATAGAGTGGTGGGTTTGGTGTGGTA	1140
2	1081	TGTCTACAGTAAGTGAAAATTATGGGCAGTGGGTGATAGAGTGGTGGGTTTGGTGTGGTA	1140

1	1141	ATTTTTTTTTTAAATTTTTACAGTTTTGTGGTTTAAAGAATTTTGTATTGTGATTTTTTTA	1200
2	1141	ATTTTTTTTTTAAATTTTTACAGTTTTGTGGTTTAAAGAATTTTGTATTGTGATTTTTTTA	1200
1	1201	AAAGGTCCTGTGTCTGAACCTGAGCCTGAGCCCGAGCCAGAACC GGAGCCTGCAAGACCT	1260
2	1201	AAAGGTCCTGTGTCTGAACCTGAGCCTGAGCCCGAGCCAGAACC GGAGCCTGCAAGACCT	1260
1	1261	ACCCGCCGTCCTAAAATGGCGCCTGCTATCCTGAGACGCCCGACATCACCTGTGTCTAGA	1320
2	1261	ACCCGCCGTCCTAAAATGGCGCCTGCTATCCTGAGACGCCCGACATCACCTGTGTCTAGA	1320
1	1321	GAATGCAATAGTAGTACGGATAGCTGTGACTCCGGTCCTTCTAACACACCTCCTGAGATA	1380
2	1321	GAATGCAATAGTAGTACGGATAGCTGTGACTCCGGTCCTTCTAACACACCTCCTGAGATA	1380
1	1381	CACCCGGTGGTCCCGCTGTGCCCATTAACCAGTTGCCGTGAGAGTTGGTGGGCGTCGC	1440
2	1381	CACCCGGTGGTCCCGCTGTGCCCATTAACCAGTTGCCGTGAGAGTTGGTGGGCGTCGC	1440
1	1441	CAGGCTGTGGAATGTATCGAGGACTTGCTTAACGAGCCTGGGCAACCTTTGGACTTGAGC	1500
2	1441	CAGGCTGTGGAATGTATCGAGGACTTGCTTAACGAGCCTGGGCAACCTTTGGACTTGAGC	1500
1	1501	TGTAAACGCCCCAGGCCATAAGGTGTAAACCTGTGATTGCGTGTGTGGTTAACGCCTTTG	1560
2	1501	TGTAAACGCCCCAGGCCATAAGGTGTAAACCTGTGATTGCGTGTGTGGTTAACGCCTTTG	1560
1	1561	TTTGCTGAATGAGTTGATGTAAGTTTAATAAAGGGTGAGATAATGTTTAACTTGCATGGC	1620
2	1561	TTTGCTGAATGAGTTGATGTAAGTTTAATAAAGGGTGAGATAATGTTTAACTTGCATGGC	1620
1	1621	GTGTTAAATGGGGCGGGCTTAAAGGGTATATAATGCGCCGTGGGCTAATCCTGGTTACA	1680
2	1621	GTGTTAAATGGGGCGGGCTTAAAGGGTATATAATGCGCCGTGGGCTAATCCTGGTTACA	1680
1	1681	TCTGACCTCATGGAGGCTTGGGAGTGTGGGAAGATTTTTCTGCTGTGCGTAACTTGCTG	1740
2	1681	TCTGACCTCATGGAGGCTTGGGAGTGTGGGAAGATTTTTCTGCTGTGCGTAACTTGCTG	1740

1	1741	GAACAGAGCTCTAACAGTACCTCTTGGTTTTGGAGTTTTCTGTGGGGCTCATCCCAGGCA	1800
2	1741	GAACAGAGCTCTAACAGTACCTCTTGGTTTTGGAGTTTTCTGTGGGGCTCATCCCAGGCA	1800
1	1801	AAGTTAGTCTGCAGAATTAAGGAGGATTACAAGTGGGAATTTGAAGAGCTTTTGAAATCC	1860
2	1801	AAGTTAGTCTGCAGAATTAAGGAGGATTACAAGTGGGAATTTGAAGAGCTTTTGAAATCC	1860
1	1861	TGTGGTGAGCTGTTTGATTCTTTGAATCTGGGTCACCAGGCGCTTTTCCAAGAGAAGGTC	1920
2	1861	TGTGGTGAGCTGTTTGATTCTTTGAATCTGGGTCACCAGGCGCTTTTCCAAGAGAAGGTC	1920
1	1921	ATCAAGACTTTGGATTTTTCCACACCGGGGCGCGCTGCGGCTGCTGTTGCTTTTTTGAGT	1980
2	1921	ATCAAGACTTTGGATTTTTCCACACCGGGGCGCGCTGCGGCTGCTGTTGCTTTTTTGAGT	1980
1	1981	TTTATAAAGGATAAATGGAGCGAAGAAACCCATCTGAGCGGGGGGTACCTGCTGGATTTT	2040
2	1981	TTTATAAAGGATAAATGGAGCGAAGAAACCCATCTGAGCGGGGGGTACCTGCTGGATTTT	2040
1	2041	CTGGCCATGCATCTGTGGAGAGCGGTTGTGAGACACAAGAATCGCCTGCTACTGTTGTCT	2100
2	2041	CTGGCCATGCATCTGTGGAGAGCGGTTGTGAGACACAAGAATCGCCTGCTACTGTTGTCT	2100
1	2101	TCCGTCCGCCCGGCGATAATACCGACGGAGGAGCAGCAGCAGCAGCAGGAGGAAGCCAGG	2160
2	2101	TCCGTCCGCCCGGCGATAATACCGACGGAGGAGCAGCAGCAGCAGCAGGAGGAAGCCAGG	2160
1	2161	CGGCGGCGGCAGGAGCAGAGCCCATGGAACCCGAGAGCCGGCCTGGACCCTCGGGAATGA	2220
2	2161	CGGCGGCGGCAGGAGCAGAGCCCATGGAACCCGAGAGCCGGCCTGGACCCTCGGGAATGA	2220
1	2221	ATGTTGTACAGGTGGCTGAACTGTATCCAGAACTGAGACGCATTTTGACAATTACAGAGG	2280
2	2221	ATGTTGTACAGGTGGCTGAACTGTATCCAGAACTGAGACGCATTTTGACAATTACAGAGG	2280
1	2281	ATGGGCAGGGGCTAAAGGGGGTAAAGAGGGAGCGGGGGGCTTGTGAGGCTACAGAGGAGG	2340
2	2281	ATGGGCAGGGGCTAAAGGGGGTAAAGAGGGAGCGGGGGGCTTGTGAGGCTACAGAGGAGG	2340

1	2341	CTAGGAATCTAGCTTTTAGCTTAATGACCAGACACCGTCCTGAGTGTATTACTTTTCAAC	2400
2	2341	CTAGGAATCTAGCTTTTAGCTTAATGACCAGACACCGTCCTGAGTGTATTACTTTTCAAC	2400
1	2401	AGATCAAGGATAATTGCGCTAATGAGCTTGATCTGCTGGCGCAGAAGTATTCCATAGAGC	2460
2	2401	AGATCAAGGATAATTGCGCTAATGAGCTTGATCTGCTGGCGCAGAAGTATTCCATAGAGC	2460
1	2461	AGCTGACCACTTACTGGCTGCAGCCAGGGGATGATTTTGAGGAGGCTATTAGGGTATATG	2520
2	2461	AGCTGACCACTTACTGGCTGCAGCCAGGGGATGATTTTGAGGAGGCTATTAGGGTATATG	2520
1	2521	CAAAGGTGGCACTTAGGCCAGATTGCAAGTACAAGATCAGCAAACCTTGTAATATCAGGA	2580
2	2521	CAAAGGTGGCACTTAGGCCAGATTGCAAGTACAAGATCAGCAAACCTTGTAATATCAGGA	2580
1	2581	ATTGTTGCTACATTTCTGGGAACGGGGCCGAGGTGGAGATAGATACGGAGGATAGGGTGG	2640
2	2581	ATTGTTGCTACATTTCTGGGAACGGGGCCGAGGTGGAGATAGATACGGAGGATAGGGTGG	2640
1	2641	CCTTTAGATGTAGCATGATAAATATGTGGCCGGGGGTGCTTGGCATGGACGGGGTGGTTA	2700
2	2641	CCTTTAGATGTAGCATGATAAATATGTGGCCGGGGGTGCTTGGCATGGACGGGGTGGTTA	2700
1	2701	TTATGAATGTAAGGTTTACTGGCCCAATTTTAGCGGTACGGTTTTCTGGCCAATACCA	2760
2	2701	TTATGAATGTAAGGTTTACTGGCCCAATTTTAGCGGTACGGTTTTCTGGCCAATACCA	2760
1	2761	ACCTTATCCTACACGGTGTAAGCTTCTATGGGTTTAAACAATACCTGTGTGGAAGCCTGGA	2820
2	2761	ACCTTATCCTACACGGTGTAAGCTTCTATGGGTTTAAACAATACCTGTGTGGAAGCCTGGA	2820
1	2821	CCGATGTAAGGTTTCGGGGCTGTGCCTTTTACTGCTGCTGGAAGGGGGTGGTGTGTCGCC	2880
2	2821	CCGATGTAAGGTTTCGGGGCTGTGCCTTTTACTGCTGCTGGAAGGGGGTGGTGTGTCGCC	2880
1	2881	CAAAAGCAGGGCTTCAATTAAGAAATGCCTCTTTGAAAGGTGTACCTTGGGTATCCTGT	2940
2	2881	CAAAAGCAGGGCTTCAATTAAGAAATGCCTCTTTGAAAGGTGTACCTTGGGTATCCTGT	2940

1	2941	CTGAGGGTAACTCCAGGGTGCGCCACAATGTGGCCTCCGACTGTGGTTGCTTCATGCTAG	3000
2	2941	CTGAGGGTAACTCCAGGGTGCGCCACAATGTGGCCTCCGACTGTGGTTGCTTCATGCTAG	3000
1	3001	TGAAAAGCGTGGCTGTGATTAAGCATAACATGGTATGTGGCAACTGCGAGGACAGGGCCT	3060
2	3001	TGAAAAGCGTGGCTGTGATTAAGCATAACATGGTATGTGGCAACTGCGAGGACAGGGCCT	3060
1	3061	CTCAGATGCTGACCTGCTCGGACGGCAACTGTCACCTGCTGAAGACCATTACGTAGCCA	3120
2	3061	CTCAGATGCTGACCTGCTCGGACGGCAACTGTCACCTGCTGAAGACCATTACGTAGCCA	3120
1	3121	GCCACTCTCGCAAGGCCTGGCCAGTGTTTGAGCATAACATACTGACCCGCTGTTCTTGC	3180
2	3121	GCCACTCTCGCAAGGCCTGGCCAGTGTTTGAGCATAACATACTGACCCGCTGTTCTTGC	3180
1	3181	ATTTGGGTAACAGGAGGGGGGTGTTCTACCTTACCAATGCAATTTGAGTCACACTAAGA	3240
2	3181	ATTTGGGTAACAGGAGGGGGGTGTTCTACCTTACCAATGCAATTTGAGTCACACTAAGA	3240
1	3241	TATTGCTTGAGCCCGAGAGCATGTCCAAGGTGAACCTGAACGGGGTGTTTGACATGACCA	3300
2	3241	TATTGCTTGAGCCCGAGAGCATGTCCAAGGTGAACCTGAACGGGGTGTTTGACATGACCA	3300
1	3301	TGAAGATCTGGAAGGTGCTGAGGTACGATGAGACCCGCACCAGGTGCAGACCCTGCGAGT	3360
2	3301	TGAAGATCTGGAAGGTGCTGAGGTACGATGAGACCCGCACCAGGTGCAGACCCTGCGAGT	3360
1	3361	GTGGCGGTAAACATATTAGGAACCAGCCTGTGATGCTGGATGTGACCGAGGAGCTGAGGC	3420
2	3361	GTGGCGGTAAACATATTAGGAACCAGCCTGTGATGCTGGATGTGACCGAGGAGCTGAGGC	3420
1	3421	CCGATCACTTGGTGTGCTGGCCTGCACCCGCGCTGAGTTTGGCTCTAGCGATGAAGATACAG	3480
2	3421	CCGATCACTTGGTGTGCTGGCCTGCACCCGCGCTGAGTTTGGCTCTAGCGATGAAGATACAG	3480
1	3481	ATTGAGGTAAGTAAATGTGTGGGCGTGGCTTAAGGGTGGGAAAGAATATATAAGGTGGGG	3540
2	3481	ATTGAGGTAAGTAAATGTGTGGGCGTGGCTTAAGGGTGGGAAAGAATATATAAGGTGGGG	3540

1	3541	GTCTTATGTAGTTTTGTATCTGTTTTGCAGCAGCCGCCGCCCATGAGCACCAACTCGT	3600
2	3541	GTCTTATGTAGTTTTGTATCTGTTTTGCAGCAGCCGCCGCCCATGAGCACCAACTCGT	3600
1	3601	TTGATGGAAGCATTGTGAGCTCATATTTGACAACGCGCATGCCCCCATGGGCGGGGTGC	3660
2	3601	TTGATGGAAGCATTGTGAGCTCATATTTGACAACGCGCATGCCCCCATGGGCGGGGTGC	3660
1	3661	GTCAGAATGTGATGGGCTCCAGCATTGATGGTCGCCCGTCCTGCCCGCAAACCTCTACTA	3720
2	3661	GTCAGAATGTGATGGGCTCCAGCATTGATGGTCGCCCGTCCTGCCCGCAAACCTCTACTA	3720
1	3721	CCTTGACCTACGAGACCGTGTCTGGAACGCCGTTGGAGACTGCAGCCTCCGCCGCCGCTT	3780
2	3721	CCTTGACCTACGAGACCGTGTCTGGAACGCCGTTGGAGACTGCAGCCTCCGCCGCCGCTT	3780
1	3781	CAGCCGCTGCAGCCACCGCCCGGGGATTGTGACTGACTTTGCTTTCCTGAGCCCGCTTG	3840
2	3781	CAGCCGCTGCAGCCACCGCCCGGGGATTGTGACTGACTTTGCTTTCCTGAGCCCGCTTG	3840
1	3841	CAAGCAGTGCAGCTTCCCGTTCATCCGCCCGCGATGACAAGTTGACGGCTCTTTTGGCAC	3900
2	3841	CAAGCAGTGCAGCTTCCCGTTCATCCGCCCGCGATGACAAGTTGACGGCTCTTTTGGCAC	3900
1	3901	AATTGGATTCTTTGACCCGGGAACCTTAATGTCGTTTCTCAGCAGCTGTTGGATCTGCGCC	3960
2	3901	AATTGGATTCTTTGACCCGGGAACCTTAATGTCGTTTCTCAGCAGCTGTTGGATCTGCGCC	3960
1	3961	AGCAGGTTTCTGCCCTGAAGGCTTCCCTCCCCTCCCAATGCGGTTTAAAACATAAATAAAA	4020
2	3961	AGCAGGTTTCTGCCCTGAAGGCTTCCCTCCCCTCCCAATGCGGTTTAAAACATAAATAAAA	4020
1	4021	AACCAGACTCTGTTTGGATTTGGATCAAGCAAGTGTCTTGCTGTCTTTATTTAGGGGTTT	4080
2	4021	AACCAGACTCTGTTTGGATTTGGATCAAGCAAGTGTCTTGCTGTCTTTATTTAGGGGTTT	4080
1	4081	TGCGCGCGCGGTAGGCCCGGGACCAGCGGTCTCGGTGCTTGAGGGTCCTGTGTATTTTTT	4140
2	4081	TGCGCGCGCGGTAGGCCCGGGACCAGCGGTCTCGGTGCTTGAGGGTCCTGTGTATTTTTT	4140

1	4141	CCAGGACGTGGTAAAGGTGACTCTGGATGTTTCAGATACATGGGCATAAGCCCGTCTCTGG	4200
2	4141	CCAGGACGTGGTAAAGGTGACTCTGGATGTTTCAGATACATGGGCATAAGCCCGTCTCTGG	4200
1	4201	GGTGGAGGTAGCACCACTGCAGAGCTTCATGCTGCGGGGTGGTGTGTAGATGATCCAGT	4260
2	4201	GGTGGAGGTAGCACCACTGCAGAGCTTCATGCTGCGGGGTGGTGTGTAGATGATCCAGT	4260
1	4261	CGTAGCAGGAGCGCTGGGCGTGGTGCCTAAAAATGTCTTTCAGTAGCAAGCTGATTGCCA	4320
2	4261	CGTAGCAGGAGCGCTGGGCGTGGTGCCTAAAAATGTCTTTCAGTAGCAAGCTGATTGCCA	4320
1	4321	GGGGCAGGCCCTTGGTGTAAGTGTTTACAAAGCGGTTAAGCTGGGATGGGTGCATACGTG	4380
2	4321	GGGGCAGGCCCTTGGTGTAAGTGTTTACAAAGCGGTTAAGCTGGGATGGGTGCATACGTG	4380
1	4381	GGGATATGAGATGCATCTTGGACTGTATTTTTAGGTTGGCTATGTTCCCAGCCATATCCC	4440
2	4381	GGGATATGAGATGCATCTTGGACTGTATTTTTAGGTTGGCTATGTTCCCAGCCATATCCC	4440
1	4441	TCCGGGGATTCATGTTGTGCAGAACCACCAGCACAGTGTATCCGGTGCACCTGGGAAATT	4500
2	4441	TCCGGGGATTCATGTTGTGCAGAACCACCAGCACAGTGTATCCGGTGCACCTGGGAAATT	4500
1	4501	TGTCATGTAGCTTAGAAGGAAATGCGTGGAAGAAGTTGGAGACGCCCTTGTGACCTCCAA	4560
2	4501	TGTCATGTAGCTTAGAAGGAAATGCGTGGAAGAAGTTGGAGACGCCCTTGTGACCTCCAA	4560
1	4561	GATTTTCCATGCATTCGTCCATAATGATGGCAATGGGCCACGGGCGGCCTGGGCGA	4620
2	4561	GATTTTCCATGCATTCGTCCATAATGATGGCAATGGGCCACGGGCGGCCTGGGCGA	4620
1	4621	AGATATTTCTGGGATCACTAACGTCATAGTTGTGTTCCAGGATGAGATCGTCATAGGCCA	4680
2	4621	AGATATTTCTGGGATCACTAACGTCATAGTTGTGTTCCAGGATGAGATCGTCATAGGCCA	4680
1	4681	TTTTTACAAAGCGCGGGCGGAGGGTGCCAGACTGCGGTATAATGGTTCCATCCGGCCCAG	4740
2	4681	TTTTTACAAAGCGCGGGCGGAGGGTGCCAGACTGCGGTATAATGGTTCCATCCGGCCCAG	4740

1	4741	GGGCGTAGTTACCCTCACAGATTTGCATTTCCACGCTTTGAGTTCAGATGGGGGGATCA	4800
2	4741	GGGCGTAGTTACCCTCACAGATTTGCATTTCCACGCTTTGAGTTCAGATGGGGGGATCA	4800
1	4801	TGTCTACCTGCGGGGCGATGAAGAAAACGGTTTCCGGGGTAGGGGAGATCAGCTGGGAAG	4860
2	4801	TGTCTACCTGCGGGGCGATGAAGAAAACGGTTTCCGGGGTAGGGGAGATCAGCTGGGAAG	4860
1	4861	AAAGCAGGTTCTGAGCAGCTGCGACTTACCGCAGCCGGTGGGCCCGTAAATCACACCTA	4920
2	4861	AAAGCAGGTTCTGAGCAGCTGCGACTTACCGCAGCCGGTGGGCCCGTAAATCACACCTA	4920
1	4921	TTACCGGCTGCAACTGGTAGTTAAGAGAGCTGCAGCTGCCGTCATCCCTGAGCAGGGGGG	4980
2	4921	TTACCGGCTGCAACTGGTAGTTAAGAGAGCTGCAGCTGCCGTCATCCCTGAGCAGGGGGG	4980
1	4981	CCACTTCGTTAAGCATGTCCCTGACTCGCATGTTTTCCCTGACCAAATCCGCCAGAAGGC	5040
2	4981	CCACTTCGTTAAGCATGTCCCTGACTCGCATGTTTTCCCTGACCAAATCCGCCAGAAGGC	5040
1	5041	GCTCGCCGCCAGCGATAGCAGTTCTTGCAAGGAAGCAAAGTTTTTCAACGGTTTGAGAC	5100
2	5041	GCTCGCCGCCAGCGATAGCAGTTCTTGCAAGGAAGCAAAGTTTTTCAACGGTTTGAGAC	5100
1	5101	CGTCCGCCGTAGGCATGCTTTTGAGCGTTTGACCAAGCAGTTCCAGGCGGTCCCACAGCT	5160
2	5101	CGTCCGCCGTAGGCATGCTTTTGAGCGTTTGACCAAGCAGTTCCAGGCGGTCCCACAGCT	5160
1	5161	CGGTCACCTGCTCTACGGCATCTCGATCCAGCATATCTCCTCGTTTTGCGGGTTGGGGCG	5220
2	5161	CGGTCACCTGCTCTACGGCATCTCGATCCAGCATATCTCCTCGTTTTGCGGGTTGGGGCG	5220
1	5221	GCTTTGCTGTACGGCAGTAGTCGGTGCTCGTCCAGACGGGCCAGGGTCATGTCTTTCCA	5280
2	5221	GCTTTGCTGTACGGCAGTAGTCGGTGCTCGTCCAGACGGGCCAGGGTCATGTCTTTCCA	5280
1	5281	CGGGCGCAGGGTCCTCGTCAGCGTAGTCTGGGTACGGTGAAGGGGTGCGCTCCGGGCTG	5340
2	5281	CGGGCGCAGGGTCCTCGTCAGCGTAGTCTGGGTACGGTGAAGGGGTGCGCTCCGGGCTG	5340

1	5341	CGCGCTGGCCAGGGTGCCTTGAGGCTGGTCCTGCTGGTGCTGAAGCGCTGCCGGTCTTC	5400
2	5341	CGCGCTGGCCAGGGTGCCTTGAGGCTGGTCCTGCTGGTGCTGAAGCGCTGCCGGTCTTC	5400
1	5401	GCCCTGCGCGTCGGCCAGGTAGCATTGACCATGGTGTCATAGTCCAGCCCCTCCGCGGC	5460
2	5401	GCCCTGCGCGTCGGCCAGGTAGCATTGACCATGGTGTCATAGTCCAGCCCCTCCGCGGC	5460
1	5461	GTGGCCCTTGGCGCGCAGCTTGCCCTTGGAGGAGGCGCCGCACGAGGGGCAGTGCAGACT	5520
2	5461	GTGGCCCTTGGCGCGCAGCTTGCCCTTGGAGGAGGCGCCGCACGAGGGGCAGTGCAGACT	5520
1	5521	TTTGAGGGCGTAGAGCTTGGGCGCGAGAAATACCGATTCCGGGGAGTAGGCATCCGCGCC	5580
2	5521	TTTGAGGGCGTAGAGCTTGGGCGCGAGAAATACCGATTCCGGGGAGTAGGCATCCGCGCC	5580
1	5581	GCAGGCCCGCAGACGGTCTCGCATTCCACGAGCCAGGTGAGCTCTGGCCGTTCCGGGGTC	5640
2	5581	GCAGGCCCGCAGACGGTCTCGCATTCCACGAGCCAGGTGAGCTCTGGCCGTTCCGGGGTC	5640
1	5641	AAAAACCAGGTTTCCCCCATGCTTTTTGATGCGTTTCTTACCTCTGGTTTTCCATGAGCCG	5700
2	5641	AAAAACCAGGTTTCCCCCATGCTTTTTGATGCGTTTCTTACCTCTGGTTTTCCATGAGCCG	5700
1	5701	GTGTCCACGCTCGGTGACGAAAAGGCTGTCCGTGTCCCCGTATACAGACTTGAGAGGCCT	5760
2	5701	GTGTCCACGCTCGGTGACGAAAAGGCTGTCCGTGTCCCCGTATACAGACTTGAGAGGCCT	5760
1	5761	GTCTCGAGCGGTGTTCCGCGGTCCTCCTCGTATAGAACTCGGACCACTCTGAGACAAA	5820
2	5761	GTCTCGAGCGGTGTTCCGCGGTCCTCCTCGTATAGAACTCGGACCACTCTGAGACAAA	5820
1	5821	GGCTCGCGTCCAGGCCAGCACGAAGGAGGCTAAGTGGGAGGGGTAGCGGTCGTTGTCCAC	5880
2	5821	GGCTCGCGTCCAGGCCAGCACGAAGGAGGCTAAGTGGGAGGGGTAGCGGTCGTTGTCCAC	5880
1	5881	TAGGGGGTCCACTCGCTCCAGGGTGTGAAGACACATGTGCGCCTCTTCGGCATCAAGGAA	5940
2	5881	TAGGGGGTCCACTCGCTCCAGGGTGTGAAGACACATGTGCGCCTCTTCGGCATCAAGGAA	5940

1	5941	GGTGATTGGTTTTGTAGGTGTAGGCCACGTGACCGGGTGTTCCTGAAGGGGGGCTATAAAA	6000
2	5941	GGTGATTGGTTTTGTAGGTGTAGGCCACGTGACCGGGTGTTCCTGAAGGGGGGCTATAAAA	6000
1	6001	GGGGGTGGGGGCGCGTTCGTCTCACTCTCTTCCGCATCGCTGTCTGCGAGGGCCAGCTG	6060
2	6001	GGGGGTGGGGGCGCGTTCGTCTCACTCTCTTCCGCATCGCTGTCTGCGAGGGCCAGCTG	6060
1	6061	TTGGGGTGAGTACTCCCTCTGAAAAGCGGGCATGACTTCTGCGCTAAGATTGTCAGTTTC	6120
2	6061	TTGGGGTGAGTACTCCCTCTGAAAAGCGGGCATGACTTCTGCGCTAAGATTGTCAGTTTC	6120
1	6121	CAAAAACGAGGAGGATTTGATATTCACCTGGCCCGCGGTGATGCCTTTGAGGGTGGCCGC	6180
2	6121	CAAAAACGAGGAGGATTTGATATTCACCTGGCCCGCGGTGATGCCTTTGAGGGTGGCCGC	6180
1	6181	ATCCATCTGGTCAGAAAAGACAATCTTTTTGTTGTCAAGCTTGGTGGCAAACGACCCGTA	6240
2	6181	ATCCATCTGGTCAGAAAAGACAATCTTTTTGTTGTCAAGCTTGGTGGCAAACGACCCGTA	6240
1	6241	GAGGGCGTTGGACAGCAACTTGGCGATGGAGCGCAGGGTTTGGTTTTTGTGCGGATCGGC	6300
2	6241	GAGGGCGTTGGACAGCAACTTGGCGATGGAGCGCAGGGTTTGGTTTTTGTGCGGATCGGC	6300
1	6301	GCGCTCCTTGGCCGCGATGTTTAGCTGCACGTATTCGCGCGCAACGCACCGCCATTCGGG	6360
2	6301	GCGCTCCTTGGCCGCGATGTTTAGCTGCACGTATTCGCGCGCAACGCACCGCCATTCGGG	6360
1	6361	AAAGACGGTGGTGCCTCGTCGGGCACCAAGGTGCACGCGCCAACCGCGGTGTCAGGGT	6420
2	6361	AAAGACGGTGGTGCCTCGTCGGGCACCAAGGTGCACGCGCCAACCGCGGTGTCAGGGT	6420
1	6421	GACAAGGTCAACGCTGGTGGCTACCTCTCCGCGTAGGCGCTCGTTGGTCCAGCAGAGGCG	6480
2	6421	GACAAGGTCAACGCTGGTGGCTACCTCTCCGCGTAGGCGCTCGTTGGTCCAGCAGAGGCG	6480
1	6481	GCCGCCCTTGCAGCAGCAGAATGGCGGTAGGGGGTCTAGCTGCGTCTCGTCCGGGGGGTCT	6540
2	6481	GCCGCCCTTGCAGCAGCAGAATGGCGGTAGGGGGTCTAGCTGCGTCTCGTCCGGGGGGTCT	6540

1	6541	TGCGTCCACGGTAAAGACCCCGGGCAGCAGGCGCGCGTTCGAAGTAGTCTATCTTGCATCC	6600
2	6541	TGCGTCCACGGTAAAGACCCCGGGCAGCAGGCGCGCGTTCGAAGTAGTCTATCTTGCATCC	6600
1	6601	TTGCAAGTCTAGCGCCTGCTGCCATGCGCGGGCGGCAAGCGCGCGCTCGTATGGGTTGAG	6660
2	6601	TTGCAAGTCTAGCGCCTGCTGCCATGCGCGGGCGGCAAGCGCGCGCTCGTATGGGTTGAG	6660
1	6661	TGGGGGACCCCATGGCATGGGGTGGGTGAGCGCGGAGGCGTACATGCCGCAAATGTCGTA	6720
2	6661	TGGGGGACCCCATGGCATGGGGTGGGTGAGCGCGGAGGCGTACATGCCGCAAATGTCGTA	6720
1	6721	AACGTAGAGGGGCTCTCTGAGTATTCCAAGATATGTAGGGTAGCATCTTCCACCGCGGAT	6780
2	6721	AACGTAGAGGGGCTCTCTGAGTATTCCAAGATATGTAGGGTAGCATCTTCCACCGCGGAT	6780
1	6781	GCTGGCGCGCACGTAATCGTATAGTTTCGTGCGAGGGAGCGAGGAGGTCGGGACCGAGGTT	6840
2	6781	GCTGGCGCGCACGTAATCGTATAGTTTCGTGCGAGGGAGCGAGGAGGTCGGGACCGAGGTT	6840
1	6841	GCTACGGGCGGGCTGCTCTGCTCGGAAGACTATCTGCCTGAAGATGGCATGTGAGTTGGA	6900
2	6841	GCTACGGGCGGGCTGCTCTGCTCGGAAGACTATCTGCCTGAAGATGGCATGTGAGTTGGA	6900
1	6901	TGATATGGTTGGACGCTGGAAGACGTTGAAGCTGGCGTCTGTGAGACCTACCGCGTCACG	6960
2	6901	TGATATGGTTGGACGCTGGAAGACGTTGAAGCTGGCGTCTGTGAGACCTACCGCGTCACG	6960
1	6961	CACGAAGGAGGCGTAGGAGTCGCGCAGCTTGTTGACCAGCTCGGCGGTGACCTGCACGTC	7020
2	6961	CACGAAGGAGGCGTAGGAGTCGCGCAGCTTGTTGACCAGCTCGGCGGTGACCTGCACGTC	7020
1	7021	TAGGGCGCAGTAGTCCAGGGTTTCCTTGATGATGTCATACTTATCCTGTCCCTTTTTTTT	7080
2	7021	TAGGGCGCAGTAGTCCAGGGTTTCCTTGATGATGTCATACTTATCCTGTCCCTTTTTTTT	7080
1	7081	CCACAGCTCGCGGTTGAGGACAAACTCTTCGCGGTCTTTCCAGTACTCTTGGATCGGAAA	7140
2	7081	CCACAGCTCGCGGTTGAGGACAAACTCTTCGCGGTCTTTCCAGTACTCTTGGATCGGAAA	7140

1	7141	CCCGTCGGCCTCCGAACGGTAAGAGCCTAGCATGTAGAAGTGGTTGACGGCCTGGTAGGC	7200
2	7141	CCCGTCGGCCTCCGAACGGTAAGAGCCTAGCATGTAGAAGTGGTTGACGGCCTGGTAGGC	7200
1	7201	GCAGCATCCCTTTTCTACGGGTAGCGCGTATGCCTGCGCGGCCTTCCGGAGCGAGGTGTG	7260
2	7201	GCAGCATCCCTTTTCTACGGGTAGCGCGTATGCCTGCGCGGCCTTCCGGAGCGAGGTGTG	7260
1	7261	GGTGAGCGCAAAGGTGTCCCTGACCATGACTTTGAGGTACTGGTATTTGAAGTCAGTGTC	7320
2	7261	GGTGAGCGCAAAGGTGTCCCTGACCATGACTTTGAGGTACTGGTATTTGAAGTCAGTGTC	7320
1	7321	GTCGCATCCGCCCTGCTCCAGAGCAAAAAGTCCGTGCGCTTTTTGGAACGCGGATTTGG	7380
2	7321	GTCGCATCCGCCCTGCTCCAGAGCAAAAAGTCCGTGCGCTTTTTGGAACGCGGATTTGG	7380
1	7381	CAGGGCGAAGGTGACATCGTTGAAGAGTATCTTTCCGCGCGAGGCATAAAGTTGCGTGT	7440
2	7381	CAGGGCGAAGGTGACATCGTTGAAGAGTATCTTTCCGCGCGAGGCATAAAGTTGCGTGT	7440
1	7441	GATGCGGAAGGGTCCCGGCACCTCGGAACGGTTGTTAATTACCTGGGCGGCGAGCACGAT	7500
2	7441	GATGCGGAAGGGTCCCGGCACCTCGGAACGGTTGTTAATTACCTGGGCGGCGAGCACGAT	7500
1	7501	CTCGTCAAAGCCGTTGATGTTGTGGCCACAATGTAAAGTTCCAAGAAGCGCGGGATGCC	7560
2	7501	CTCGTCAAAGCCGTTGATGTTGTGGCCACAATGTAAAGTTCCAAGAAGCGCGGGATGCC	7560
1	7561	CTTGATGGAAGGCAATTTTTTAAGTTCCTCGTAGGTGAGCTCTTCAGGGGAGCTGAGCCC	7620
2	7561	CTTGATGGAAGGCAATTTTTTAAGTTCCTCGTAGGTGAGCTCTTCAGGGGAGCTGAGCCC	7620
1	7621	GTGCTCTGAAAGGGCCAGTCTGCAAGATGAGGGTTGGAAGCGACGAATGAGCTCCACAG	7680
2	7621	GTGCTCTGAAAGGGCCAGTCTGCAAGATGAGGGTTGGAAGCGACGAATGAGCTCCACAG	7680
1	7681	GTCACGGGCCATTAGCATTGTCAGGTGGTCGCGAAAGGTCCTAAACTGGCGACCTATGGC	7740
2	7681	GTCACGGGCCATTAGCATTGTCAGGTGGTCGCGAAAGGTCCTAAACTGGCGACCTATGGC	7740

1	7741	CATTTTTTCTGGGGTGATGCAGTAGAAGGTAAGCGGGTCTTGTTCCAGCGGTCCCATCC	7800
2	7741	CATTTTTTCTGGGGTGATGCAGTAGAAGGTAAGCGGGTCTTGTTCCAGCGGTCCCATCC	7800
1	7801	AAGGTTTCGCGGCTAGGTCTCGCGCGGCAGTCACTAGAGGCTCATCTCCGCCGAACTTCAT	7860
2	7801	AAGGTTTCGCGGCTAGGTCTCGCGCGGCAGTCACTAGAGGCTCATCTCCGCCGAACTTCAT	7860
1	7861	GACCAGCATGAAGGGCACGAGCTGCTTCCCAAAGGCCCCATCCAAGTATAGGTCTCTAC	7920
2	7861	GACCAGCATGAAGGGCACGAGCTGCTTCCCAAAGGCCCCATCCAAGTATAGGTCTCTAC	7920
1	7921	ATCGTAGGTGACAAAGAGACGCTCGGTGCGAGGATGCGAGCCGATCGGGAAGAAGTGGAT	7980
2	7921	ATCGTAGGTGACAAAGAGACGCTCGGTGCGAGGATGCGAGCCGATCGGGAAGAAGTGGAT	7980
1	7981	CTCCCGCCACCAATTGGAGGAGTGGCTATTGATGTGGTGAAAGTAGAAGTCCCTGCGACG	8040
2	7981	CTCCCGCCACCAATTGGAGGAGTGGCTATTGATGTGGTGAAAGTAGAAGTCCCTGCGACG	8040
1	8041	GGCCGAACACTCGTGCTGGCTTTTGTAAAAACGTGCGCAGTACTGGCAGCGGTGCACGGG	8100
2	8041	GGCCGAACACTCGTGCTGGCTTTTGTAAAAACGTGCGCAGTACTGGCAGCGGTGCACGGG	8100
1	8101	CTGTACATCCTGCACGAGGTTGACCTGACGACCGCGCACAAAGGAAGCAGAGTGGGAATTT	8160
2	8101	CTGTACATCCTGCACGAGGTTGACCTGACGACCGCGCACAAAGGAAGCAGAGTGGGAATTT	8160
1	8161	GAGCCCCTCGCCTGGCGGGTTTGGCTGGTGGTCTTCTACTTTCGGCTGCTTGTCCTTGACC	8220
2	8161	GAGCCCCTCGCCTGGCGGGTTTGGCTGGTGGTCTTCTACTTTCGGCTGCTTGTCCTTGACC	8220
1	8221	GTCTGGCTGCTCGAGGGGAGTTACGGTGGATCGGACCACCACGCCGCGCGAGCCCAAAGT	8280
2	8221	GTCTGGCTGCTCGAGGGGAGTTACGGTGGATCGGACCACCACGCCGCGCGAGCCCAAAGT	8280
1	8281	CCAGATGTCCGCGCGCGGGTGGAGCTTGATGACAACATCGCGCAGATGGGAGCTGTC	8340
2	8281	CCAGATGTCCGCGCGCGGGTGGAGCTTGATGACAACATCGCGCAGATGGGAGCTGTC	8340

1 8341 CATGGTCTGGAGCTCCCGCGGCGTCAGGTCAGGCGGGAGCTCCTGCAGGTTTACCTCGCA 8400
|||||

2 8341 CATGGTCTGGAGCTCCCGCGGCGTCAGGTCAGGCGGGAGCTCCTGCAGGTTTACCTCGCA 8400

1 8401 TAGACGGGTTCAGGGCGCGGGCTAGATCCAGGTGATACCTAATTTCCAGGGGCTGGTTGGT 8460
|||||

2 8401 TAGACGGGTTCAGGGCGCGGGCTAGATCCAGGTGATACCTAATTTCCAGGGGCTGGTTGGT 8460

1 8461 GGC GGCGTCGATGGCTTGCAAGAGGCCGCATCCCCGCGGCGCGACTACGGTACCGCGCGG 8520
|||||

2 8461 GGC GGCGTCGATGGCTTGCAAGAGGCCGCATCCCCGCGGCGCGACTACGGTACCGCGCGG 8520

1 8521 CGGGCGGTTGGGCCGCGGGGGTGTCTTGGATGATGCATCTAAAAGCGGTGACGCGGGCGA 8580
|||||

2 8521 CGGGCGGTTGGGCCGCGGGGGTGTCTTGGATGATGCATCTAAAAGCGGTGACGCGGGCGA 8580

1 8581 GCCCCGGAGGTAGGGGGGGCTCCGGACCCGCCGGGAGAGGGGGCAGGGGCACGTCGGCG 8640
|||||

2 8581 GCCCCGGAGGTAGGGGGGGCTCCGGACCCGCCGGGAGAGGGGGCAGGGGCACGTCGGCG 8640

1 8641 CCGCGCGCGGGCAGGAGCTGGTGCTGCGCGCGTAGGTTGCTGGCGAACGCGACGACGCGG 8700
|||||

2 8641 CCGCGCGCGGGCAGGAGCTGGTGCTGCGCGCGTAGGTTGCTGGCGAACGCGACGACGCGG 8700

1 8701 CGGTTGATCTCCTGAATCTGGCGCCTCTGCGTGAAGACGACGGGCCCGGTGAGCTTGAAC 8760
|||||

2 8701 CGGTTGATCTCCTGAATCTGGCGCCTCTGCGTGAAGACGACGGGCCCGGTGAGCTTGAAC 8760

1 8761 CTGAAAGAGAGTTCGACAGAATCAATTTCCGGTGTGCTTGACGGCGGCCTGGCGCAAATC 8820
|||||

2 8761 CTGAAAGAGAGTTCGACAGAATCAATTTCCGGTGTGCTTGACGGCGGCCTGGCGCAAATC 8820

1 8821 TCCTGCACGTCTCCTGAGTTGTCTTGATAGGCGATCTCGGCCATGAACTGCTCGATCTCT 8880
|||||

2 8821 TCCTGCACGTCTCCTGAGTTGTCTTGATAGGCGATCTCGGCCATGAACTGCTCGATCTCT 8880

1 8881 TCCTCCTGGAGATCTCCGCGTCCGGCTCGCTCCACGGTGGCGGCGAGGTCGTTGGAAATG 8940
|||||

2 8881 TCCTCCTGGAGATCTCCGCGTCCGGCTCGCTCCACGGTGGCGGCGAGGTCGTTGGAAATG 8940

1	8941	CGGGCCATGAGCTGCGAGAAGGCGTTGAGGCCTCCCTCGTTCCAGACGCGGCTGTAGACC	9000
2	8941	CGGGCCATGAGCTGCGAGAAGGCGTTGAGGCCTCCCTCGTTCCAGACGCGGCTGTAGACC	9000
1	9001	ACGCCCCCTTCGGCATCGCGGGCGCGCATGACCACCTGCGCGAGATTGAGCTCCACGTGC	9060
2	9001	ACGCCCCCTTCGGCATCGCGGGCGCGCATGACCACCTGCGCGAGATTGAGCTCCACGTGC	9060
1	9061	CGGGCGAAGACGGCGTAGTTTCGCAGGCGCTGAAAGAGGTAGTTGAGGGTGGTGGCGGTG	9120
2	9061	CGGGCGAAGACGGCGTAGTTTCGCAGGCGCTGAAAGAGGTAGTTGAGGGTGGTGGCGGTG	9120
1	9121	TGTTCTGCCACGAAGAAGTACATAAACCAGCGTCGCAACGTGGATTGTTGATATCCCCC	9180
2	9121	TGTTCTGCCACGAAGAAGTACATAAACCAGCGTCGCAACGTGGATTGTTGATATCCCCC	9180
1	9181	AAGGCCTCAAGGCGCTCCATGGCCTCGTAGAAGTCCACGGCGAAGTTGAAAACTGGGAG	9240
2	9181	AAGGCCTCAAGGCGCTCCATGGCCTCGTAGAAGTCCACGGCGAAGTTGAAAACTGGGAG	9240
1	9241	TTGCGCGCCGACACGGTTAACTCCTCCTCCAGAAGACGGATGAGCTCGGCGACAGTGTCG	9300
2	9241	TTGCGCGCCGACACGGTTAACTCCTCCTCCAGAAGACGGATGAGCTCGGCGACAGTGTCG	9300
1	9301	CGCACCTCGCGCTCAAAGGCTACAGGGGCCTCTTCTTCTTCTTCAATCTCCTCTTCCATA	9360
2	9301	CGCACCTCGCGCTCAAAGGCTACAGGGGCCTCTTCTTCTTCTTCAATCTCCTCTTCCATA	9360
1	9361	AGGGCCTCCCCTTCTTCTTCTTCTGCGCGCGGTGGGGGAGGGGGACACGGCGGCGACGA	9420
2	9361	AGGGCCTCCCCTTCTTCTTCTTCTGCGCGCGGTGGGGGAGGGGGACACGGCGGCGACGA	9420
1	9421	CGGCGCACCGGGAGGCGGTTCGACAAAGCGCTCGATCATCTCCCCGCGGCGACGGCGCATG	9480
2	9421	CGGCGCACCGGGAGGCGGTTCGACAAAGCGCTCGATCATCTCCCCGCGGCGACGGCGCATG	9480
1	9481	GTCTCGGTGACGGCGCGGCCGTTCTCGCGGGGGCGCAGTTGGAAGACGCCGCCGTCATG	9540
2	9481	GTCTCGGTGACGGCGCGGCCGTTCTCGCGGGGGCGCAGTTGGAAGACGCCGCCGTCATG	9540

1	9541	TCCCGGTTATGGGTTGGCGGGGGGCTGCCATGCGGCAGGGATACGGCGCTAACGATGCAT	9600
2	9541	TCCCGGTTATGGGTTGGCGGGGGGCTGCCATGCGGCAGGGATACGGCGCTAACGATGCAT	9600
1	9601	CTCAACAATTGTTGTGTAGGTACTCCGCCGCCGAGGGACCTGAGCGAGTCCGCATCGACC	9660
2	9601	CTCAACAATTGTTGTGTAGGTACTCCGCCGCCGAGGGACCTGAGCGAGTCCGCATCGACC	9660
1	9661	GGATCGGAAAACCTCTCGAGAAAGGCGTCTAACCCAGTCACAGTCGCAAGGTAGGCTGAGC	9720
2	9661	GGATCGGAAAACCTCTCGAGAAAGGCGTCTAACCCAGTCACAGTCGCAAGGTAGGCTGAGC	9720
1	9721	ACCGTGCGGGCGGCAGCGGGCGGCGGTCGGGGTTGTTTCTGGCGGAGGTGCTGCTGATG	9780
2	9721	ACCGTGCGGGCGGCAGCGGGCGGCGGTCGGGGTTGTTTCTGGCGGAGGTGCTGCTGATG	9780
1	9781	ATGTAATTAAGTAGGCGGTCTTGAGACGGCGGATGGTCGACAGAAGCACCATGTCCTTG	9840
2	9781	ATGTAATTAAGTAGGCGGTCTTGAGACGGCGGATGGTCGACAGAAGCACCATGTCCTTG	9840
1	9841	GGTCCGGCCTGCTGAATGCGCAGGCGGTGCGCCATGCCCCAGGCTTCGTTTTGACATCGG	9900
2	9841	GGTCCGGCCTGCTGAATGCGCAGGCGGTGCGCCATGCCCCAGGCTTCGTTTTGACATCGG	9900
1	9901	CGCAGGTCTTTGTAGTAGTCTTGTCATGAGCCTTTCTACCGGCACTTCTTCTTCTCCTTCC	9960
2	9901	CGCAGGTCTTTGTAGTAGTCTTGTCATGAGCCTTTCTACCGGCACTTCTTCTTCTCCTTCC	9960
1	9961	TCTTGTCCTGCATCTCTTGTCATCTATCGCTGCGGCGGCGGCGGAGTTTGCCGTAGGTGG	10 020
2	9961	TCTTGTCCTGCATCTCTTGTCATCTATCGCTGCGGCGGCGGCGGAGTTTGCCGTAGGTGG	10 020
1	10 021	CGCCCTCTTCCCTCCCATGCGTGTGACCCCGAAGCCCCTCATCGGCTGAAGCAGGGCTAGG	10 080
2	10 021	CGCCCTCTTCCCTCCCATGCGTGTGACCCCGAAGCCCCTCATCGGCTGAAGCAGGGCTAGG	10 080
1	10 081	TCGGCGACAACGCGCTCGGCTAATATGGCCTGCTGCACCTGCGTGAGGGTAGACTGGAAG	10 140
2	10 081	TCGGCGACAACGCGCTCGGCTAATATGGCCTGCTGCACCTGCGTGAGGGTAGACTGGAAG	10 140

1	10 141	TCATCCATGTCCACAAAGCGGTGGTATGCGCCCGTGGTGGTAAAGTGCAGTTGGCC 	10 200
2	10 141	TCATCCATGTCCACAAAGCGGTGGTATGCGCCCGTGGTGGTAAAGTGCAGTTGGCC 	10 200
1	10 201	ATAACGGACCAGTTAACGGTCTGGTGACCCGGCTGCGAGAGCTCGGTGTACCTGAGACGC 	10 260
2	10 201	ATAACGGACCAGTTAACGGTCTGGTGACCCGGCTGCGAGAGCTCGGTGTACCTGAGACGC 	10 260
1	10 261	GAGTAAGCCCTCGAGTCAAATACGTAGTCGTTGCAAGTCCGCACCAGGTACTGGTATCCC 	10 320
2	10 261	GAGTAAGCCCTCGAGTCAAATACGTAGTCGTTGCAAGTCCGCACCAGGTACTGGTATCCC 	10 320
1	10 321	ACCAAAAAGTGCGGCGGCGGCTGGCGGTAGAGGGGCCAGCGTAGGGTGGCCGGGGCTCCG 	10 380
2	10 321	ACCAAAAAGTGCGGCGGCGGCTGGCGGTAGAGGGGCCAGCGTAGGGTGGCCGGGGCTCCG 	10 380
1	10 381	GGGGCGAGATCTTCCAACATAAGGCGATGATATCCGTAGATGTACCTGGACATCCAGGTG 	10 440
2	10 381	GGGGCGAGATCTTCCAACATAAGGCGATGATATCCGTAGATGTACCTGGACATCCAGGTG 	10 440
1	10 441	ATGCCGGCGGCGGTGGTGGAGGCGCGCGGAAAGTCGCGGACGCGGTTCCAGATGTTGCGC 	10 500
2	10 441	ATGCCGGCGGCGGTGGTGGAGGCGCGCGGAAAGTCGCGGACGCGGTTCCAGATGTTGCGC 	10 500
1	10 501	AGCGGCCAAAAGTGCTCCATGGTCGGGACGCTCTGGCCGGTCAGGCGCGCGCAATCGTTG 	10 560
2	10 501	AGCGGCCAAAAGTGCTCCATGGTCGGGACGCTCTGGCCGGTCAGGCGCGCGCAATCGTTG 	10 560
1	10 561	ACGCTCTAGACCGTGCAAAAGGAGAGCCTGTAAGCGGGCACTCTTCCGTGGTCTGGTGGG 	10 620
2	10 561	ACGCTCTAGACCGTGCAAAAGGAGAGCCTGTAAGCGGGCACTCTTCCGTGGTCTGGTGGG 	10 620
1	10 621	TAAATTCGCAAGGGTATCATGGCGGACGACCGGGGTTTCGAGCCCCGTATCCGGCCGTCCG 	10 680
2	10 621	TAAATTCGCAAGGGTATCATGGCGGACGACCGGGGTTTCGAGCCCCGTATCCGGCCGTCCG 	10 680
1	10 681	CCGTGATCCATGCGGTTACCGCCCGCGTGTCTGAACCCAGGTGTGCGACGTCAGACAACGG 	10 740
2	10 681	CCGTGATCCATGCGGTTACCGCCCGCGTGTCTGAACCCAGGTGTGCGACGTCAGACAACGG 	10 740

1	10 741	GGGAGTGCTCCTTTTTGGCTTCCCTTCCAGGCGCGGGCGGCTGCTGCGCTAGCTTTTTTTGGCC	10 800
2	10 741	GGGAGTGCTCCTTTTTGGCTTCCCTTCCAGGCGCGGGCGGCTGCTGCGCTAGCTTTTTTTGGCC	10 800
1	10 801	ACTGGCCGCGCGCAGCGTAAGCGGTTAGGCTGGAAAGCGAAAGCATTAAAGTGGCTCGCTC	10 860
2	10 801	ACTGGCCGCGCGCAGCGTAAGCGGTTAGGCTGGAAAGCGAAAGCATTAAAGTGGCTCGCTC	10 860
1	10 861	CCTGTAGCCGGAGGGTTATTTTCCAAGGTTGAGTCGCGGGACCCCCGGTTCGAGTCTCG	10 920
2	10 861	CCTGTAGCCGGAGGGTTATTTTCCAAGGTTGAGTCGCGGGACCCCCGGTTCGAGTCTCG	10 920
1	10 921	GACCGGCCGGACTGCGGCGAACGGGGGTTTGCCTCCCCGTCATGCAAGACCCCGCTTGCA	10 980
2	10 921	GACCGGCCGGACTGCGGCGAACGGGGGTTTGCCTCCCCGTCATGCAAGACCCCGCTTGCA	10 980
1	10 981	AATTCCTCCGAAACAGGGACGAGCCCCCTTTTTTGCTTTTCCCAGATGCATCCGGTGCTG	11 040
2	10 981	AATTCCTCCGAAACAGGGACGAGCCCCCTTTTTTGCTTTTCCCAGATGCATCCGGTGCTG	11 040
1	11 041	CGGCAGATGCGCCCCCTCCTCAGCAGCGGCAAGAGCAAGAGCAGCGGCAGACATGCAGG	11 100
2	11 041	CGGCAGATGCGCCCCCTCCTCAGCAGCGGCAAGAGCAAGAGCAGCGGCAGACATGCAGG	11 100
1	11 101	GCACCCCTCCCCTCCTCCTACCGCGTCAGGAGGGGCGACATCCGCGGTTGACGCGGCAGCA	11 160
2	11 101	GCACCCCTCCCCTCCTCCTACCGCGTCAGGAGGGGCGACATCCGCGGTTGACGCGGCAGCA	11 160
1	11 161	GATGGTGATTACGAACCCCGCGGCGCCGGGCCCGGCACTACCTGGACTTGGAGGAGGGC	11 220
2	11 161	GATGGTGATTACGAACCCCGCGGCGCCGGGCCCGGCACTACCTGGACTTGGAGGAGGGC	11 220
1	11 221	GAGGGCCTGGCGCGGCTAGGAGCGCCCTCCTGAGCGGCACCCAAGGGTGCAGCTGAAG	11 280
2	11 221	GAGGGCCTGGCGCGGCTAGGAGCGCCCTCCTGAGCGGCACCCAAGGGTGCAGCTGAAG	11 280
1	11 281	CGTGATACGCGTGAGGCGTACGTGCCGCGGCAGAACCTGTTTCGCGACCGCGAGGGAGAG	11 340
2	11 281	CGTGATACGCGTGAGGCGTACGTGCCGCGGCAGAACCTGTTTCGCGACCGCGAGGGAGAG	11 340

1	11 341	GAGCCCGAGGAGATGCGGGATCGAAAGTTCCACGCAGGGCGCGAGCTGCGGCATGGCCTG 	11 400
2	11 341	GAGCCCGAGGAGATGCGGGATCGAAAGTTCCACGCAGGGCGCGAGCTGCGGCATGGCCTG 	11 400
1	11 401	AATCGCGAGCGGTTGCTGCGCGAGGAGGACTTTGAGCCCGACGCGGAACCGGGATTAGT 	11 460
2	11 401	AATCGCGAGCGGTTGCTGCGCGAGGAGGACTTTGAGCCCGACGCGGAACCGGGATTAGT 	11 460
1	11 461	CCCGCGCGCGCACACGTGGCGGCCGCGACCTGGTAACCGCATACGAGCAGACGGTGAAC 	11 520
2	11 461	CCCGCGCGCGCACACGTGGCGGCCGCGACCTGGTAACCGCATACGAGCAGACGGTGAAC 	11 520
1	11 521	CAGGAGATTAACTTTCAAAAAGCTTTAACAACCACGTGCGTACGCTTGTGGCGCGCGAG 	11 580
2	11 521	CAGGAGATTAACTTTCAAAAAGCTTTAACAACCACGTGCGTACGCTTGTGGCGCGCGAG 	11 580
1	11 581	GAGGTGGCTATAGGACTGATGCATCTGTGGGACTTTGTAAGCGCGCTGGAGCAAACCCA 	11 640
2	11 581	GAGGTGGCTATAGGACTGATGCATCTGTGGGACTTTGTAAGCGCGCTGGAGCAAACCCA 	11 640
1	11 641	AATAGCAAGCCGCTCATGGCGCAGCTGTTTCCTTATAGTGCAGCACAGCAGGGACAACGAG 	11 700
2	11 641	AATAGCAAGCCGCTCATGGCGCAGCTGTTTCCTTATAGTGCAGCACAGCAGGGACAACGAG 	11 700
1	11 701	GCATTCAGGGATGCGCTGCTAAACATAGTAGAGCCCGAGGGCCGCTGGCTGCTCGATTTG 	11 760
2	11 701	GCATTCAGGGATGCGCTGCTAAACATAGTAGAGCCCGAGGGCCGCTGGCTGCTCGATTTG 	11 760
1	11 761	ATAAACATCCTGCAGAGCATAGTGGTGCAGGAGCGCAGCTTGAGCCTGGCTGACAAGGTG 	11 820
2	11 761	ATAAACATCCTGCAGAGCATAGTGGTGCAGGAGCGCAGCTTGAGCCTGGCTGACAAGGTG 	11 820
1	11 821	GCCGCCATCAACTATTCCATGCTTAGCCTGGGCAAGTTTTACGCCCGCAAGATATACCAT 	11 880
2	11 821	GCCGCCATCAACTATTCCATGCTTAGCCTGGGCAAGTTTTACGCCCGCAAGATATACCAT 	11 880
1	11 881	ACCCCTTACGTTCCCATAGACAAGGAGGTAAAGATCGAGGGGTTCTACATGCGCATGGCG 	11 940
2	11 881	ACCCCTTACGTTCCCATAGACAAGGAGGTAAAGATCGAGGGGTTCTACATGCGCATGGCG 	11 940

1	11 941	CTGAAGGTGCTTACCTTGAGCGACGACCTGGGCGTTTATCGCAACGAGCGCATCCACAAG	12 000
2	11 941	CTGAAGGTGCTTACCTTGAGCGACGACCTGGGCGTTTATCGCAACGAGCGCATCCACAAG	12 000
1	12 001	GCCGTGAGCGTGAGCCGGCGGCGGAGCTCAGCGACCGCGAGCTGATGCACAGCCTGCAA	12 060
2	12 001	GCCGTGAGCGTGAGCCGGCGGCGGAGCTCAGCGACCGCGAGCTGATGCACAGCCTGCAA	12 060
1	12 061	AGGGCCCTGGCTGGCACGGGCAGCGGCGATAGAGAGGCGAGTCCTACTTTGACGCGGGC	12 120
2	12 061	AGGGCCCTGGCTGGCACGGGCAGCGGCGATAGAGAGGCGAGTCCTACTTTGACGCGGGC	12 120
1	12 121	GCTGACCTGCGCTGGGCCCAAGCCGACGCGCCCTGGAGGCAGCTGGGGCCGGACCTGGG	12 180
2	12 121	GCTGACCTGCGCTGGGCCCAAGCCGACGCGCCCTGGAGGCAGCTGGGGCCGGACCTGGG	12 180
1	12 181	CTGGCGGTGGCACCCGCGCGCGCTGGCAACGTCGGCGGCGTGGAGGAATATGACGAGGAC	12 240
2	12 181	CTGGCGGTGGCACCCGCGCGCGCTGGCAACGTCGGCGGCGTGGAGGAATATGACGAGGAC	12 240
1	12 241	GATGAGTACGAGCCAGAGGACGGCGAGTACTAAGCGGTGATGTTTCTGATCAGATGATGC	12 300
2	12 241	GATGAGTACGAGCCAGAGGACGGCGAGTACTAAGCGGTGATGTTTCTGATCAGATGATGC	12 300
1	12 301	AAGACGCAACGGACCCGGCGGTGCGGGCGGCGCTGCAGAGCCAGCCGTCCGGCCTTAACT	12 360
2	12 301	AAGACGCAACGGACCCGGCGGTGCGGGCGGCGCTGCAGAGCCAGCCGTCCGGCCTTAACT	12 360
1	12 361	CCACGGACGACTGGCGCCAGGTCATGGACCGCATCATGTGCTGACTGCGCGCAATCCTG	12 420
2	12 361	CCACGGACGACTGGCGCCAGGTCATGGACCGCATCATGTGCTGACTGCGCGCAATCCTG	12 420
1	12 421	ACGCGTTCCGGCAGCAGCCGCAGGCCAACC GGCTCTCCGCAATTCTGGAAGCGGTGGTCC	12 480
2	12 421	ACGCGTTCCGGCAGCAGCCGCAGGCCAACC GGCTCTCCGCAATTCTGGAAGCGGTGGTCC	12 480
1	12 481	CGGCGCGCGCAAACCCACGCACGAGAAGGTGCTGGCGATCGTAAACGCGCTGGCCGAAA	12 540
2	12 481	CGGCGCGCGCAAACCCACGCACGAGAAGGTGCTGGCGATCGTAAACGCGCTGGCCGAAA	12 540

1	12 541	ACAGGGCCATCCGGCCCGACGAGGCCGGCCTGGTCTACGACGCGCTGCTTCAGCGCGTGG	12 600
2	12 541	ACAGGGCCATCCGGCCCGACGAGGCCGGCCTGGTCTACGACGCGCTGCTTCAGCGCGTGG	12 600
1	12 601	CTCGTTACAACAGCGGCAACGTGCAGACCAACCTGGACCGGCTGGTGGGGGATGTGCGCG	12 660
2	12 601	CTCGTTACAACAGCGGCAACGTGCAGACCAACCTGGACCGGCTGGTGGGGGATGTGCGCG	12 660
1	12 661	AGGCCGTGGCGCAGCGTGAGCGCGCGCAGCAGCAGGGCAACCTGGGCTCCATGGTTGCAC	12 720
2	12 661	AGGCCGTGGCGCAGCGTGAGCGCGCGCAGCAGCAGGGCAACCTGGGCTCCATGGTTGCAC	12 720
1	12 721	TAAACGCCTTCCTGAGTACACAGCCCGCCAACGTGCCGCGGGGACAGGAGGACTACACCA	12 780
2	12 721	TAAACGCCTTCCTGAGTACACAGCCCGCCAACGTGCCGCGGGGACAGGAGGACTACACCA	12 780
1	12 781	ACTTTGTGAGCGCACTGCGGCTAATGGTGACTGAGACACCGCAAAGTGAGGTGTACCAGT	12 840
2	12 781	ACTTTGTGAGCGCACTGCGGCTAATGGTGACTGAGACACCGCAAAGTGAGGTGTACCAGT	12 840
1	12 841	CTGGGCCAGACTATTTTTTCCAGACCAGTAGACAAGGCCTGCAGACCGTAAACCTGAGCC	12 900
2	12 841	CTGGGCCAGACTATTTTTTCCAGACCAGTAGACAAGGCCTGCAGACCGTAAACCTGAGCC	12 900
1	12 901	AGGCTTTCAAAAACCTTGCAGGGGCTGTGGGGGGTGCGGGCTCCCACAGGCGACCGCGCGA	12 960
2	12 901	AGGCTTTCAAAAACCTTGCAGGGGCTGTGGGGGGTGCGGGCTCCCACAGGCGACCGCGCGA	12 960
1	12 961	CCGTGTCTAGCTTGCTGACGCCAACTCGCGCCTGTTGCTGCTGCTAATAGCGCCCTTCA	13 020
2	12 961	CCGTGTCTAGCTTGCTGACGCCAACTCGCGCCTGTTGCTGCTGCTAATAGCGCCCTTCA	13 020
1	13 021	CGGACAGTGGCAGCGTGTCCCGGGACACATACCTAGGTCACCTTGCTGACACTGTACCGCG	13 080
2	13 021	CGGACAGTGGCAGCGTGTCCCGGGACACATACCTAGGTCACCTTGCTGACACTGTACCGCG	13 080
1	13 081	AGGCCATAGGTCAGGCGCATGTGGACGAGCATACTTTCCAGGAGATTACAAGTGTGACGCC	13 140
2	13 081	AGGCCATAGGTCAGGCGCATGTGGACGAGCATACTTTCCAGGAGATTACAAGTGTGACGCC	13 140

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1 13 141 GCGCGCTGGGGCAGGAGGACACGGGCAGCCTGGAGGCAACCCTAAACTACCTGCTGACCA 13 200
  |||
2 13 141 GCGCGCTGGGGCAGGAGGACACGGGCAGCCTGGAGGCAACCCTAAACTACCTGCTGACCA 13 200

1 13 201 ACCGGCGGCAGAAAGATCCCCTCGTTGCACAGTTTAAACAGCGAGGAGGAGCGCATTTTGC 13 260
  |||
2 13 201 ACCGGCGGCAGAAAGATCCCCTCGTTGCACAGTTTAAACAGCGAGGAGGAGCGCATTTTGC 13 260

1 13 261 GCTACGTGCAGCAGAGCGTGAGCCTTAACCTGATGCGCGACGGGGTAACGCCAGCGTG 13 320
  |||
2 13 261 GCTACGTGCAGCAGAGCGTGAGCCTTAACCTGATGCGCGACGGGGTAACGCCAGCGTG 13 320

1 13 321 CGCTGGACATGACCGCGCGCAACATGGAACCGGGCATGTATGCCTCAAACCGGCCGTTTA 13 380
  |||
2 13 321 CGCTGGACATGACCGCGCGCAACATGGAACCGGGCATGTATGCCTCAAACCGGCCGTTTA 13 380

1 13 381 TCAACCGCCTAATGGACTACTTGCATCGCGCGGCCGCCGTGAACCCGAGTATTTACCA 13 440
  |||
2 13 381 TCAACCGCCTAATGGACTACTTGCATCGCGCGGCCGCCGTGAACCCGAGTATTTACCA 13 440

1 13 441 ATGCCATCTTGAACCCGCACTGGCTACCGCCCCCTGGTTTCTACACGGGGGATTTCGAGG 13 500
  |||
2 13 441 ATGCCATCTTGAACCCGCACTGGCTACCGCCCCCTGGTTTCTACACGGGGGATTTCGAGG 13 500

1 13 501 TGCCCGAGGGTAACGATGGATTCCTCTGGGACGACATAGACGACAGCGTGT TTTCCCCGC 13 560
  |||
2 13 501 TGCCCGAGGGTAACGATGGATTCCTCTGGGACGACATAGACGACAGCGTGT TTTCCCCGC 13 560

1 13 561 AACCGCAGACCCTGCTAGAGTTGCAACAGCGCGAGCAGGCAGAGGCGGCGCTGCGAAAGG 13 620
  |||
2 13 561 AACCGCAGACCCTGCTAGAGTTGCAACAGCGCGAGCAGGCAGAGGCGGCGCTGCGAAAGG 13 620

1 13 621 AAAGCTTCCGCAGGCCAAGCAGCTTGTC CGATCTAGGCGCTGCGGCCCGCGGTCAGATG 13 680
  |||
2 13 621 AAAGCTTCCGCAGGCCAAGCAGCTTGTC CGATCTAGGCGCTGCGGCCCGCGGTCAGATG 13 680

1 13 681 CTAGTAGCCCATTTCCAAGCTTGATAGGGTCTCTTACCAGCACTCGCACCACCGCCCGC 13 740
  |||
2 13 681 CTAGTAGCCCATTTCCAAGCTTGATAGGGTCTCTTACCAGCACTCGCACCACCGCCCGC 13 740

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1	13 741	GCCTGCTGGGCGAGGAGGAGTACCTAAACAACCTCGCTGCTGCAGCCGCAGCGCGAAAAAA	13 800
2	13 741	GCCTGCTGGGCGAGGAGGAGTACCTAAACAACCTCGCTGCTGCAGCCGCAGCGCGAAAAAA	13 800
1	13 801	ACCTGCCTCCGGCATTTCCTCAACAACGGGATAGAGAGCCTAGTGGACAAGATGAGTAGAT	13 860
2	13 801	ACCTGCCTCCGGCATTTCCTCAACAACGGGATAGAGAGCCTAGTGGACAAGATGAGTAGAT	13 860
1	13 861	GGAAGACGTACGCGCAGGAGCACAGGGACGTGCCAGGCCCGCGCCCGCCACCCGTCGTC	13 920
2	13 861	GGAAGACGTACGCGCAGGAGCACAGGGACGTGCCAGGCCCGCGCCCGCCACCCGTCGTC	13 920
1	13 921	AAAGGCACGACCGTCAGCGGGGTCTGGTGTGGGAGGACGATGACTCGGCAGACGACAGCA	13 980
2	13 921	AAAGGCACGACCGTCAGCGGGGTCTGGTGTGGGAGGACGATGACTCGGCAGACGACAGCA	13 980
1	13 981	GCGTCCTGGATTTGGGAGGGAGTGGCAACCCGTTTGCGCACCTTCGCCCCAGGCTGGGGA	14 040
2	13 981	GCGTCCTGGATTTGGGAGGGAGTGGCAACCCGTTTGCGCACCTTCGCCCCAGGCTGGGGA	14 040
1	14 041	GAATGTTTTAAAAAAAAAAAAAAAAAGCATGATGCAAAATAAAAAACTCACCAAGGCCATGGCA	14 100
2	14 041	GAATGTTTTAAAAAAAAAAAAAAAAAGCATGATGCAAAATAAAAAACTCACCAAGGCCATGGCA	14 100
1	14 101	CCGAGCGTTGGTTTTCTTGATTTCCCTTAGTATGCGGCGCGCGGCGATGTATGAGGAAG	14 160
2	14 101	CCGAGCGTTGGTTTTCTTGATTTCCCTTAGTATGCGGCGCGCGGCGATGTATGAGGAAG	14 160
1	14 161	GTCCTCCTCCCTCCTACGAGAGTGTGGTGAGCGCGGCGCCAGTGGCGGCGGCGCTGGGTT	14 220
2	14 161	GTCCTCCTCCCTCCTACGAGAGTGTGGTGAGCGCGGCGCCAGTGGCGGCGGCGCTGGGTT	14 220
1	14 221	CTCCCTTCGATGCTCCCCTGGACCCGCCGTTTGTGCCTCCGCGGTACCTGCGGCCTACCG	14 280
2	14 221	CTCCCTTCGATGCTCCCCTGGACCCGCCGTTTGTGCCTCCGCGGTACCTGCGGCCTACCG	14 280
1	14 281	GGGGGAGAAACAGCATCCGTTACTCTGAGTTGGCACCCCTATTCGACACCACCCGTGTGT	14 340
2	14 281	GGGGGAGAAACAGCATCCGTTACTCTGAGTTGGCACCCCTATTCGACACCACCCGTGTGT	14 340

1	14 341	ACCTGGTGGACAACAAGTCAACGGATGTGGCATCCCTGAACTACCAGAACGACCACAGCA	14 400
2	14 341	ACCTGGTGGACAACAAGTCAACGGATGTGGCATCCCTGAACTACCAGAACGACCACAGCA	14 400
1	14 401	ACTTTCTGACCACGGTCATTCAAACAATGACTACAGCCCGGGGGAGGCAAGCACACAGA	14 460
2	14 401	ACTTTCTGACCACGGTCATTCAAACAATGACTACAGCCCGGGGGAGGCAAGCACACAGA	14 460
1	14 461	CCATCAATCTTGACGACCGGTTCGCACTGGGGCGGCGACCTGAAAACCATCCTGCATACCA	14 520
2	14 461	CCATCAATCTTGACGACCGGTTCGCACTGGGGCGGCGACCTGAAAACCATCCTGCATACCA	14 520
1	14 521	ACATGCCAAATGTGAACGAGTTCATGTTTACCAATAAGTTTAAGGCGCGGGTGATGGTGT	14 580
2	14 521	ACATGCCAAATGTGAACGAGTTCATGTTTACCAATAAGTTTAAGGCGCGGGTGATGGTGT	14 580
1	14 581	CGCGCTTGCCCTACTAAGGACAATCAGGTGGAGCTGAAATACGAGTGGGTGGAGTTCACGC	14 640
2	14 581	CGCGCTTGCCCTACTAAGGACAATCAGGTGGAGCTGAAATACGAGTGGGTGGAGTTCACGC	14 640
1	14 641	TGCCCCGAGGGCAACTACTCCGAGACCATGACCATAGACCTTATGAACAACGCGATCGTGG	14 700
2	14 641	TGCCCCGAGGGCAACTACTCCGAGACCATGACCATAGACCTTATGAACAACGCGATCGTGG	14 700
1	14 701	AGCACTACTTGAAAGTGGGCAGACAGAACGGGGTTCTGGAAAGCGACATCGGGGTAAAGT	14 760
2	14 701	AGCACTACTTGAAAGTGGGCAGACAGAACGGGGTTCTGGAAAGCGACATCGGGGTAAAGT	14 760
1	14 761	TTGACACCCGCAACTTCAGACTGGGGTTTGACCCCGTCACTGGTCTTGTTCATGCCTGGGG	14 820
2	14 761	TTGACACCCGCAACTTCAGACTGGGGTTTGACCCCGTCACTGGTCTTGTTCATGCCTGGGG	14 820
1	14 821	TATATACAAACGAAGCCTTCCATCCAGACATCATTTTGCTGCCAGGATGCGGGGTGGACT	14 880
2	14 821	TATATACAAACGAAGCCTTCCATCCAGACATCATTTTGCTGCCAGGATGCGGGGTGGACT	14 880
1	14 881	TCACCCACAGCCGCCTGAGCAACTTGTTGGGCATCCGCAAGCGGCAACCCTTCCAGGAGG	14 940
2	14 881	TCACCCACAGCCGCCTGAGCAACTTGTTGGGCATCCGCAAGCGGCAACCCTTCCAGGAGG	14 940

1	14 941	GCTTTAGGATCACCTACGATGATCTGGAGGGTGGTAACATTCCC	15 000
2	14 941	GCTTTAGGATCACCTACGATGATCTGGAGGGTGGTAACATTCCC	15 000
1	15 001	ACGCCTACCAGGCGAGCTTGAAAGATGACACCGAACAGGGCGGGGGTGGCGCAGGCGGCA	15 060
2	15 001	ACGCCTACCAGGCGAGCTTGAAAGATGACACCGAACAGGGCGGGGGTGGCGCAGGCGGCA	15 060
1	15 061	GCAACAGCAGTGGCAGCGGCGCGGAAGAGA	15 120
2	15 061	GCAACAGCAGTGGCAGCGGCGCGGAAGAGA	15 120
1	15 121	CGGTGGAGGACATGAACGATCATGCCATTCGCGGCGACACCTTTGCCACACGGGCTGAGG	15 180
2	15 121	CGGTGGAGGACATGAACGATCATGCCATTCGCGGCGACACCTTTGCCACACGGGCTGAGG	15 180
1	15 181	AGAAGCGCGCTGAGGCCGAAGCAGCGGCCGAAGCTGCCGCCCGCTGCGCAACCCGAGG	15 240
2	15 181	AGAAGCGCGCTGAGGCCGAAGCAGCGGCCGAAGCTGCCGCCCGCTGCGCAACCCGAGG	15 240
1	15 241	TCGAGAAGCCTCAGAAGAAACCGGTGATCAAACCCCTGACAGAGGACAGCAAGAAACGCA	15 300
2	15 241	TCGAGAAGCCTCAGAAGAAACCGGTGATCAAACCCCTGACAGAGGACAGCAAGAAACGCA	15 300
1	15 301	GTTACAACCTAATAAGCAATGACAGCACCTTCACCCAGTACCGCAGCTGGTACCTTGCAT	15 360
2	15 301	GTTACAACCTAATAAGCAATGACAGCACCTTCACCCAGTACCGCAGCTGGTACCTTGCAT	15 360
1	15 361	ACAACCTACGGCGACCCCTCAGACCGGAATCCGCTCATGGACCCTGCTTTGCACTCCTGACG	15 420
2	15 361	ACAACCTACGGCGACCCCTCAGACCGGAATCCGCTCATGGACCCTGCTTTGCACTCCTGACG	15 420
1	15 421	TAACCTGCGGCTCGGAGCAGGTCTACTGGTCGTTGCCAGACATGATGCAAGACCCCGTGA	15 480
2	15 421	TAACCTGCGGCTCGGAGCAGGTCTACTGGTCGTTGCCAGACATGATGCAAGACCCCGTGA	15 480
1	15 481	CCTTCCGCTCCACGCGCCAGATCAGCAACTTTCCGGTGGTGGGCGCCGAGCTGTTGCCCG	15 540
2	15 481	CCTTCCGCTCCACGCGCCAGATCAGCAACTTTCCGGTGGTGGGCGCCGAGCTGTTGCCCG	15 540

1	15 541	TGCACTCCAAGAGCTTCTACAACGACCAGGCCGTCTACTCCCAACTCATCCGCCAGTTTA	15 600
2	15 541	TGCACTCCAAGAGCTTCTACAACGACCAGGCCGTCTACTCCCAACTCATCCGCCAGTTTA	15 600
1	15 601	CCTCTCTGACCCACGTGTTCAATCGCTTTCCCGAGAACCAGATTTTGGCGCGCCCGCCAG	15 660
2	15 601	CCTCTCTGACCCACGTGTTCAATCGCTTTCCCGAGAACCAGATTTTGGCGCGCCCGCCAG	15 660
1	15 661	CCCCCACCATCACCACCGTCAGTGAAAACGTTCTGCTCTCACAGATCACGGGACGCTAC	15 720
2	15 661	CCCCCACCATCACCACCGTCAGTGAAAACGTTCTGCTCTCACAGATCACGGGACGCTAC	15 720
1	15 721	CGCTGCGCAACAGCATCGGAGGAGTCCAGCGAGTGACCATTACTGACGCCAGACGCCGCA	15 780
2	15 721	CGCTGCGCAACAGCATCGGAGGAGTCCAGCGAGTGACCATTACTGACGCCAGACGCCGCA	15 780
1	15 781	CCTGCCCTACGTTTACAAGGCCCTGGGCATAGTCTCGCCGCGCGTCCTATCGAGCCGCA	15 840
2	15 781	CCTGCCCTACGTTTACAAGGCCCTGGGCATAGTCTCGCCGCGCGTCCTATCGAGCCGCA	15 840
1	15 841	CTTTTTGAGCAAGCATGTCCATCCTTATATCGCCAGCAATAACACAGGCTGGGGCCTGC	15 900
2	15 841	CTTTTTGAGCAAGCATGTCCATCCTTATATCGCCAGCAATAACACAGGCTGGGGCCTGC	15 900
1	15 901	GCTTCCAAGCAAGATGTTTGGCGGGGCCAAGAAGCGCTCCGACCAACACCCAGTGCGCG	15 960
2	15 901	GCTTCCAAGCAAGATGTTTGGCGGGGCCAAGAAGCGCTCCGACCAACACCCAGTGCGCG	15 960
1	15 961	TGCGCGGGGCACTACCGCGCGCCCTGGGGCGCGCACAAACGCGGCCGCACTGGGGCGACCA	16 020
2	15 961	TGCGCGGGGCACTACCGCGCGCCCTGGGGCGCGCACAAACGCGGCCGCACTGGGGCGACCA	16 020
1	16 021	CCGTGATGACGCCATCGACGCGGTGGTGGAGGAGGCGCGCAACTACACGCCACGCCGC	16 080
2	16 021	CCGTGATGACGCCATCGACGCGGTGGTGGAGGAGGCGCGCAACTACACGCCACGCCGC	16 080
1	16 081	CACCAGTGTCCACAGTGGACGCGGCCATTTCAGACCGTGGTGC GCGGAGCCGGCGCTATG	16 140
2	16 081	CACCAGTGTCCACAGTGGACGCGGCCATTTCAGACCGTGGTGC GCGGAGCCGGCGCTATG	16 140

1	16 141	CTAAAATGAAGAGACGGCGGAGGGCGCGTAGCACGTCGCCACCGCCGCGCCGACCCGGGCACTG	16 200
2	16 141	CTAAAATGAAGAGACGGCGGAGGGCGCGTAGCACGTCGCCACCGCCGCGCCGACCCGGGCACTG	16 200
1	16 201	CCGCCCAACGCGCGGGCGGGCCCTGCTTAACCGCGCACGTCGCACCGGCGACGGGGCGG	16 260
2	16 201	CCGCCCAACGCGCGGGCGGGCCCTGCTTAACCGCGCACGTCGCACCGGCGACGGGGCGG	16 260
1	16 261	CCATGCGGGCCGCTCGAAGGCTGGCCGCGGGTATTGTCACTGTGCCCCCGAGGTCCAGGC	16 320
2	16 261	CCATGCGGGCCGCTCGAAGGCTGGCCGCGGGTATTGTCACTGTGCCCCCGAGGTCCAGGC	16 320
1	16 321	GACGAGCGGCCGCCGCGAGCAGCCGCGGCCATTAGTGCTATGACTCAGGGTCGCAGGGGCA	16 380
2	16 321	GACGAGCGGCCGCCGCGAGCAGCCGCGGCCATTAGTGCTATGACTCAGGGTCGCAGGGGCA	16 380
1	16 381	ACGTGTATTGGGTGCGCGACTCGGTTAGCGGCCTGCGCGTGCCCGTGCGCACCCGCCCCC	16 440
2	16 381	ACGTGTATTGGGTGCGCGACTCGGTTAGCGGCCTGCGCGTGCCCGTGCGCACCCGCCCCC	16 440
1	16 441	CGCGCAACTAGATTGCAAGAAAAAACTACTTAGACTCGTACTGTTGTATGTATCCAGCGG	16 500
2	16 441	CGCGCAACTAGATTGCAAGAAAAAACTACTTAGACTCGTACTGTTGTATGTATCCAGCGG	16 500
1	16 501	CGGCGGCGCGCAACGAAGCTATGTCCAAGCGCAAAATCAAAGAAGAGATGCTCCAGGTCA	16 560
2	16 501	CGGCGGCGCGCAACGAAGCTATGTCCAAGCGCAAAATCAAAGAAGAGATGCTCCAGGTCA	16 560
1	16 561	TCGCGCCGGAGATCTATGGCCCCCGAAGAAGGAAGAGCAGGATTACAAGCCCCGAAAGC	16 620
2	16 561	TCGCGCCGGAGATCTATGGCCCCCGAAGAAGGAAGAGCAGGATTACAAGCCCCGAAAGC	16 620
1	16 621	TAAAGCGGGTCAAAAAGAAAAAGAAAGATGATGATGATGAACTTGACGACGAGGTGGAAC	16 680
2	16 621	TAAAGCGGGTCAAAAAGAAAAAGAAAGATGATGATGATGAACTTGACGACGAGGTGGAAC	16 680
1	16 681	TGCTGCACGCTACCGCGCCAGGCGACGGGTACAGTGGAAGGTCGACGCGTAAAACGTG	16 740
2	16 681	TGCTGCACGCTACCGCGCCAGGCGACGGGTACAGTGGAAGGTCGACGCGTAAAACGTG	16 740

1	16 741	TTTTGCGACCCGGCACCACCGTAGTCTTTACGCCCGGTGAGCGCTCCACCCGCACCTACA 	16 800
2	16 741	TTTTGCGACCCGGCACCACCGTAGTCTTTACGCCCGGTGAGCGCTCCACCCGCACCTACA	16 800
1	16 801	AGCGCGTGTATGATGAGGTGTACGGCGACGAGGACCTGCTTGAGCAGGCCAACGAGCGCC 	16 860
2	16 801	AGCGCGTGTATGATGAGGTGTACGGCGACGAGGACCTGCTTGAGCAGGCCAACGAGCGCC	16 860
1	16 861	TCGGGGAGTTTGCCTACGGAAAGCGGCATAAAGGACATGCTGGCGTTGCCGCTGGACGAGG 	16 920
2	16 861	TCGGGGAGTTTGCCTACGGAAAGCGGCATAAAGGACATGCTGGCGTTGCCGCTGGACGAGG	16 920
1	16 921	GCAACCCAACACCTAGCCTAAAGCCCGTAACACTGCAGCAGGTGCTGCCCGCGCTTGCAC 	16 980
2	16 921	GCAACCCAACACCTAGCCTAAAGCCCGTAACACTGCAGCAGGTGCTGCCCGCGCTTGCAC	16 980
1	16 981	CGTCCGAAGAAAAGCGCGGCCTAAAGCGCGAGTCTGGTGACTTGGCACCCACCGTGCAGC 	17 040
2	16 981	CGTCCGAAGAAAAGCGCGGCCTAAAGCGCGAGTCTGGTGACTTGGCACCCACCGTGCAGC	17 040
1	17 041	TGATGGTACCCAAGCGCCAGCGACTGGAAGATGTCTTGGAAAAAATGACCGTGGAACTG 	17 100
2	17 041	TGATGGTACCCAAGCGCCAGCGACTGGAAGATGTCTTGGAAAAAATGACCGTGGAACTG	17 100
1	17 101	GGCTGGAGCCCGAGGTCCGCGTGCGGCCAATCAAGCAGGTGGCGCCGGGACTGGGCGTGC 	17 160
2	17 101	GGCTGGAGCCCGAGGTCCGCGTGCGGCCAATCAAGCAGGTGGCGCCGGGACTGGGCGTGC	17 160
1	17 161	AGACCGTGGACGTTTCAGATACCCACTACCAGTAGCACCAGTATTGCCACCGCCACAGAGG 	17 220
2	17 161	AGACCGTGGACGTTTCAGATACCCACTACCAGTAGCACCAGTATTGCCACCGCCACAGAGG	17 220
1	17 221	GCATGGAGACACAAACGTCCCCGTTGCCTCAGCGGTGGCGGATGCCGCGGTGCAGGCGG 	17 280
2	17 221	GCATGGAGACACAAACGTCCCCGTTGCCTCAGCGGTGGCGGATGCCGCGGTGCAGGCGG	17 280
1	17 281	TCGCTGCGGCCGCGTCCAAGACCTCTACGGAGGTGCAAACGGACCCGTGGATGTTTCGCG 	17 340
2	17 281	TCGCTGCGGCCGCGTCCAAGACCTCTACGGAGGTGCAAACGGACCCGTGGATGTTTCGCG	17 340

1	17 341	TTTCAGCCCCCGGCGCCCGCGCCGTTTCGAGGAAGTACGGCGCCGCCAGCGCGCTACTGC	17 400
2	17 341	TTTCAGCCCCCGGCGCCCGCGCCGTTTCGAGGAAGTACGGCGCCGCCAGCGCGCTACTGC	17 400
1	17 401	CCGAATATGCCCTACATCCTTCCATTGCGCCTACCCCCGGCTATCGTGGCTACACCTACC	17 460
2	17 401	CCGAATATGCCCTACATCCTTCCATTGCGCCTACCCCCGGCTATCGTGGCTACACCTACC	17 460
1	17 461	GCCCCAGAAGACGAGCAACTACCCGACGCCGAACCACCACTGGAACCCGCCGCCGCGTC	17 520
2	17 461	GCCCCAGAAGACGAGCAACTACCCGACGCCGAACCACCACTGGAACCCGCCGCCGCGTC	17 520
1	17 521	GCCGTCGCCAGCCCGTGCTGGCCCCGATTTCCGTGCGCAGGGTGGCTCGCGAAGGAGGCA	17 580
2	17 521	GCCGTCGCCAGCCCGTGCTGGCCCCGATTTCCGTGCGCAGGGTGGCTCGCGAAGGAGGCA	17 580
1	17 581	GGACCCTGGTGCTGCCAACAGCGCGCTACCACCCAGCATCGTTTAAAAGCCGGTCTTTG	17 640
2	17 581	GGACCCTGGTGCTGCCAACAGCGCGCTACCACCCAGCATCGTTTAAAAGCCGGTCTTTG	17 640
1	17 641	TGGTTCTTGCAGATATGGCCCTCACCTGCCGCCTCCGTTTCCCGGTGCCGGGATTCCGAG	17 700
2	17 641	TGGTTCTTGCAGATATGGCCCTCACCTGCCGCCTCCGTTTCCCGGTGCCGGGATTCCGAG	17 700
1	17 701	GAAGAATGCACCGTAGGAGGGGCATGGCCGGCCACGGCCTGACGGGCGGCATGCGTCGTG	17 760
2	17 701	GAAGAATGCACCGTAGGAGGGGCATGGCCGGCCACGGCCTGACGGGCGGCATGCGTCGTG	17 760
1	17 761	CGCACCACCGGCGGCGGCGCGCTCGCACCGTCGCATGCGCGGCGGTATCCTGCCCTCC	17 820
2	17 761	CGCACCACCGGCGGCGGCGCGCTCGCACCGTCGCATGCGCGGCGGTATCCTGCCCTCC	17 820
1	17 821	TTATTCCACTGATCGCCGCGGCGATTGGCGCCGTGCCCGGAATTGCATCCGTGGCCTTGC	17 880
2	17 821	TTATTCCACTGATCGCCGCGGCGATTGGCGCCGTGCCCGGAATTGCATCCGTGGCCTTGC	17 880
1	17 881	AGGCGCAGAGACACTGATTA AAAACAAGTTGCATGTGGAAAATCAAATAAAAAGTCTG	17 940
2	17 881	AGGCGCAGAGACACTGATTA AAAACAAGTTGCATGTGGAAAATCAAATAAAAAGTCTG	17 940

1	17 941	GACTCTCACGCTCGCTTGGTCCTGTAAC TATTTTGTAGAATGGAAGACATCAACTTTGCG	18 000
2	17 941	GACTCTCACGCTCGCTTGGTCCTGTAAC TATTTTGTAGAATGGAAGACATCAACTTTGCG	18 000
1	18 001	TCTCTGGCCCCGCGACACGGCTCGCGCCCGTT CATGGGAAACTGGCAAGATATCGGCACC	18 060
2	18 001	TCTCTGGCCCCGCGACACGGCTCGCGCCCGTT CATGGGAAACTGGCAAGATATCGGCACC	18 060
1	18 061	AGCAATATGAGCGGTGGCGCCTTCAGCTGGGGCTCGCTGTGGAGCGGCATTAAAAATTC	18 120
2	18 061	AGCAATATGAGCGGTGGCGCCTTCAGCTGGGGCTCGCTGTGGAGCGGCATTAAAAATTC	18 120
1	18 121	GGTTCCACCGTTAAGA ACTATGGCAGCAAGGCCTGGAACAGCAGCACAGGCCAGATGCTG	18 180
2	18 121	GGTTCCACCGTTAAGA ACTATGGCAGCAAGGCCTGGAACAGCAGCACAGGCCAGATGCTG	18 180
1	18 181	AGGGATAAGTTGAAAGAGCAA AATTTCCAACAAAAGGTGGTAGATGGCCTGGCCTCTGGC	18 240
2	18 181	AGGGATAAGTTGAAAGAGCAA AATTTCCAACAAAAGGTGGTAGATGGCCTGGCCTCTGGC	18 240
1	18 241	ATTAGCGGGGTGGTGGACCTGGCCAACCAGGCAGTGCAA AATAAGATTAACAGTAAGCTT	18 300
2	18 241	ATTAGCGGGGTGGTGGACCTGGCCAACCAGGCAGTGCAA AATAAGATTAACAGTAAGCTT	18 300
1	18 301	GATCCCCGCCCTCCCGTAGAGGAGCCTCCACCGGCCGTGGAGACAGTGTCTCCAGAGGGG	18 360
2	18 301	GATCCCCGCCCTCCCGTAGAGGAGCCTCCACCGGCCGTGGAGACAGTGTCTCCAGAGGGG	18 360
1	18 361	CGTGGCGAAAAGCGTCCGCGCCCCGACAGGGAAGAAACTCTGGTGACGCAAATAGACGAG	18 420
2	18 361	CGTGGCGAAAAGCGTCCGCGCCCCGACAGGGAAGAAACTCTGGTGACGCAAATAGACGAG	18 420
1	18 421	CCTCCCTCGTACGAGGAGGCACTAAAGCAAGGCCTGCCACCACCCGTCCCATCGCGCCC	18 480
2	18 421	CCTCCCTCGTACGAGGAGGCACTAAAGCAAGGCCTGCCACCACCCGTCCCATCGCGCCC	18 480
1	18 481	ATGGCTACCGGAGTGCTGGGCCAGCACACACCCGTAACGCTGGACCTGCCTCCCCCGCC	18 540
2	18 481	ATGGCTACCGGAGTGCTGGGCCAGCACACACCCGTAACGCTGGACCTGCCTCCCCCGCC	18 540

1	18 541	GACACCCAGCAGAAACCTGTGCTGCCAGGCCCGACCGCCGTTGTTGTAACCCGTCTAGC	18 600
2	18 541	GACACCCAGCAGAAACCTGTGCTGCCAGGCCCGACCGCCGTTGTTGTAACCCGTCTAGC	18 600
1	18 601	CGCGCGTCCCTGCGCCGCGCCGCCAGCGGTCCGCGATCGTTGCGGCCCGTAGCCAGTGGC	18 660
2	18 601	CGCGCGTCCCTGCGCCGCGCCGCCAGCGGTCCGCGATCGTTGCGGCCCGTAGCCAGTGGC	18 660
1	18 661	AACTGGCAAAGCACACTGAACAGCATCGTGGGTCTGGGGTGCAATCCCTGAAGCGCCGA	18 720
2	18 661	AACTGGCAAAGCACACTGAACAGCATCGTGGGTCTGGGGTGCAATCCCTGAAGCGCCGA	18 720
1	18 721	CGATGCTTCTGATAGCTAACGTGTGTCGTATGTGTGTCATGTATGCGTCCATGTCGCCGCCA	18 780
2	18 721	CGATGCTTCTGATAGCTAACGTGTGTCGTATGTGTGTCATGTATGCGTCCATGTCGCCGCCA	18 780
1	18 781	GAGGAGCTGCTGAGCCGCGCGGCCCGCTTTCCAAGATGGCTACCCCTTCGATGATGCC	18 840
2	18 781	GAGGAGCTGCTGAGCCGCGCGGCCCGCTTTCCAAGATGGCTACCCCTTCGATGATGCC	18 840
1	18 841	GCAGTGGTCTTACATGCACATCTCGGGCCAGGACGCCTCGGAGTACCTGAGCCCCGGGCT	18 900
2	18 841	GCAGTGGTCTTACATGCACATCTCGGGCCAGGACGCCTCGGAGTACCTGAGCCCCGGGCT	18 900
1	18 901	GGTGCAGTTTGCCCGCGCCACCGAGACGTACTTCAGCCTGAATAACAAGTTTAGAAACCC	18 960
2	18 901	GGTGCAGTTTGCCCGCGCCACCGAGACGTACTTCAGCCTGAATAACAAGTTTAGAAACCC	18 960
1	18 961	CACGGTGGCGCCTACGCACGACGTGACCACAGACCGGTCCCAGCGTTTGACGCTGCGGTT	19 020
2	18 961	CACGGTGGCGCCTACGCACGACGTGACCACAGACCGGTCCCAGCGTTTGACGCTGCGGTT	19 020
1	19 021	CATCCCTGTGGACCGTGAGGATACTGCGTACTCGTACAAGGCGCGGTTACCCCTAGCTGT	19 080
2	19 021	CATCCCTGTGGACCGTGAGGATACTGCGTACTCGTACAAGGCGCGGTTACCCCTAGCTGT	19 080
1	19 081	GGGTGATAACCGTGTGCTGGACATGGCTTCCACGTACTTTGACATCCGCGGCGTGCTGGA	19 140
2	19 081	GGGTGATAACCGTGTGCTGGACATGGCTTCCACGTACTTTGACATCCGCGGCGTGCTGGA	19 140

1	19 141	CAGGGGCCCTACTTTTAAGCCCTACTCTGGCACTGCCTACAACGCCCTGGCTCCCAAGGG	19 200
2	19 141	CAGGGGCCCTACTTTTAAGCCCTACTCTGGCACTGCCTACAACGCCCTGGCTCCCAAGGG	19 200
1	19 201	TGCCCCAAATCCTTGCGAATGGGATGAAGCTGCTACTGCTCTTGAAATAAACCTAGAAGA	19 260
2	19 201	TGCCCCAAATCCTTGCGAATGGGATGAAGCTGCTACTGCTCTTGAAATAAACCTAGAAGA	19 260
1	19 261	AGAGGACGATGACAACGAAGACGAAGTAGACGAGCAAGCTGAGCAGCAAAAACTCACGT	19 320
2	19 261	AGAGGACGATGACAACGAAGACGAAGTAGACGAGCAAGCTGAGCAGCAAAAACTCACGT	19 320
1	19 321	ATTTGGGCAGGCGCCTTATTCTGGTATAAATATTACAAAGGAGGGTATTCAAATAGGTGT	19 380
2	19 321	ATTTGGGCAGGCGCCTTATTCTGGTATAAATATTACAAAGGAGGGTATTCAAATAGGTGT	19 380
1	19 381	CGAAGGTCAAACACCTAAATATGCCGATAAAACATTTCAACCTGAACCTCAAATAGGAGA	19 440
2	19 381	CGAAGGTCAAACACCTAAATATGCCGATAAAACATTTCAACCTGAACCTCAAATAGGAGA	19 440
1	19 441	ATCTCAGTGGTACGAAACAGAAATTAATCATGCAGCTGGGAGAGTCCTAAAAAAGACTAC	19 500
2	19 441	ATCTCAGTGGTACGAAACAGAAATTAATCATGCAGCTGGGAGAGTCCTAAAAAAGACTAC	19 500
1	19 501	CCCAATGAAACCATGTTACGGTTCATATGCAAAACCCACAAATGAAAATGGAGGGCAAGG	19 560
2	19 501	CCCAATGAAACCATGTTACGGTTCATATGCAAAACCCACAAATGAAAATGGAGGGCAAGG	19 560
1	19 561	CATTCTTGTAAGCAACAAAATGGAAAGCTAGAAAGTCAAGTGGAAATGCAATTTTTCTC	19 620
2	19 561	CATTCTTGTAAGCAACAAAATGGAAAGCTAGAAAGTCAAGTGGAAATGCAATTTTTCTC	19 620
1	19 621	AACTACTGAGGCAGCCGCAGGCAATGGTGATAACTTGACTCCTAAAGTGGTATTGTACAG	19 680
2	19 621	AACTACTGAGGCAGCCGCAGGCAATGGTGATAACTTGACTCCTAAAGTGGTATTGTACAG	19 680
1	19 681	TGAAGATGTAGATATAGAAACCCAGACACTCATATTTCTTACATGCCCACTATTAAGGA	19 740
2	19 681	TGAAGATGTAGATATAGAAACCCAGACACTCATATTTCTTACATGCCCACTATTAAGGA	19 740

1	19 741	AGGTAAC TCACGAGA ACTAATGGG CCAACAATCTATGCC CAACAGGCCTAATTACATTGC	19 800
2	19 741	AGGTAAC TCACGAGA ACTAATGGG CCAACAATCTATGCC CAACAGGCCTAATTACATTGC	19 800
1	19 801	TTTTAGG GACAATTTTATTGG TCTAATGTATTACA ACAGCACGGGTAATATGGGTGTTCT	19 860
2	19 801	TTTTAGG GACAATTTTATTGG TCTAATGTATTACA ACAGCACGGGTAATATGGGTGTTCT	19 860
1	19 861	GGCGGG CCAAGCATCGCAGTTGA ATGCTGTTGTAGATTTGCA AGACAGAAACACAGAGCT	19 920
2	19 861	GGCGGG CCAAGCATCGCAGTTGA ATGCTGTTGTAGATTTGCA AGACAGAAACACAGAGCT	19 920
1	19 921	TTCATAC CAGCTTTTTGCTTGATTCC ATTTGGTGATAGAACCAGGTACTTTTCTATGTGGAA	19 980
2	19 921	TTCATAC CAGCTTTTTGCTTGATTCC ATTTGGTGATAGAACCAGGTACTTTTCTATGTGGAA	19 980
1	19 981	TCAGGCT GTTGACAGCTATGATCC AGATGTTAGAATTATTGAAA ATCATGGAACTGAAGA	20 040
2	19 981	TCAGGCT GTTGACAGCTATGATCC AGATGTTAGAATTATTGAAA ATCATGGAACTGAAGA	20 040
1	20 041	TGAACTT CCAAATTACTGCTTTT CCACTGGGAGGTGTGATTA ATACAGAGACTCTTACCAA	20 100
2	20 041	TGAACTT CCAAATTACTGCTTTT CCACTGGGAGGTGTGATTA ATACAGAGACTCTTACCAA	20 100
1	20 101	GGTAAAC CTA AAAACAGGTCAGGAAA ATGGATGGGAAA AAGATGCTACAGAATTTTCAGA	20 160
2	20 101	GGTAAAC CTA AAAACAGGTCAGGAAA ATGGATGGGAAA AAGATGCTACAGAATTTTCAGA	20 160
1	20 161	TAAAAAT GAAATAAGAGTTGG AAATAATTTTGCCATGG AAATCAATCTAAATGCCAACCT	20 220
2	20 161	TAAAAAT GAAATAAGAGTTGG AAATAATTTTGCCATGG AAATCAATCTAAATGCCAACCT	20 220
1	20 221	GTGGAGA AATTTCTGTACTCCA ACATAGCGCTGTATTTGCC CGACAAGCTAAAGTACAG	20 280
2	20 221	GTGGAGA AATTTCTGTACTCCA ACATAGCGCTGTATTTGCC CGACAAGCTAAAGTACAG	20 280
1	20 281	TCCTTCC AACGTAAAAATTTCTG ATAACCCAAACACCTACG ACTACATGAACAAGCGAGT	20 340
2	20 281	TCCTTCC AACGTAAAAATTTCTG ATAACCCAAACACCTACG ACTACATGAACAAGCGAGT	20 340

1	20 341	GGTGGCTCCC GGGCTAGTGGACTGCTACATTAACCTTGGAGCACGCTGGTCCCTTGACTA	20 400
2	20 341	 GGTGGCTCCC GGGCTAGTGGACTGCTACATTAACCTTGGAGCACGCTGGTCCCTTGACTA	20 400
1	20 401	TATGGACAACGTCAACCCATTTAACCACCACC GCAATGCTGGCCTGCGCTACCGCTCAAT	20 460
2	20 401	 TATGGACAACGTCAACCCATTTAACCACCACC GCAATGCTGGCCTGCGCTACCGCTCAAT	20 460
1	20 461	GTTGCTGGGCAATGGTCGCTATGTGCCCTTCCACATCCAGGTGCCTCAGAAGTTCTTTGC	20 520
2	20 461	 GTTGCTGGGCAATGGTCGCTATGTGCCCTTCCACATCCAGGTGCCTCAGAAGTTCTTTGC	20 520
1	20 521	CATTA AAAACCTCCTTCTCCTGCCGGGCTCATACACCTACGAGTGGA ACTTCAGGAAGGA	20 580
2	20 521	 CATTA AAAACCTCCTTCTCCTGCCGGGCTCATACACCTACGAGTGGA ACTTCAGGAAGGA	20 580
1	20 581	TGTTAACATGGTTCTGCAGAGCTCCCTAGGAAATGACCTAAGGGTTGACGGAGCCAGCAT	20 640
2	20 581	 TGTTAACATGGTTCTGCAGAGCTCCCTAGGAAATGACCTAAGGGTTGACGGAGCCAGCAT	20 640
1	20 641	TAAGTTTGATAGC ATTTGCCTTTACGCCACCTTCTTCCCATGGCCACAACACCGCCTC	20 700
2	20 641	 TAAGTTTGATAGC ATTTGCCTTTACGCCACCTTCTTCCCATGGCCACAACACCGCCTC	20 700
1	20 701	CACGCTTGAGGCCATGCTTAGAAACGACACCAACGACCAGTCCTTTAACGACTATCTCTC	20 760
2	20 701	 CACGCTTGAGGCCATGCTTAGAAACGACACCAACGACCAGTCCTTTAACGACTATCTCTC	20 760
1	20 761	CGCCGCCAACATGCTCTACCCTATACCCGCCAACGCTACCAACGTGCCCATATCCATCCC	20 820
2	20 761	 CGCCGCCAACATGCTCTACCCTATACCCGCCAACGCTACCAACGTGCCCATATCCATCCC	20 820
1	20 821	CTCCCGCAACTGGGCGGCTTTCCGCGGCTGGGCCTTACGCGCCTTAAGACTAAGGAAAC	20 880
2	20 821	 CTCCCGCAACTGGGCGGCTTTCCGCGGCTGGGCCTTACGCGCCTTAAGACTAAGGAAAC	20 880
1	20 881	CCCATCACTGGGCTCGGGCTACGACCCTTATTACACCTACTCTGGCTCTATACCCTACCT	20 940
2	20 881	 CCCATCACTGGGCTCGGGCTACGACCCTTATTACACCTACTCTGGCTCTATACCCTACCT	20 940

1	20 941	AGATGGAACCTTTTACCTCAACCACACCTTTAAGAAGGTGGCCATTACCTTTGACTCTTC	21 000
2	20 941	AGATGGAACCTTTTACCTCAACCACACCTTTAAGAAGGTGGCCATTACCTTTGACTCTTC	21 000
1	21 001	TGTCAGCTGGCCTGGCAATGACCGCCTGCTTACCCCAACGAGTTTGAATTAAGCGCTC	21 060
2	21 001	TGTCAGCTGGCCTGGCAATGACCGCCTGCTTACCCCAACGAGTTTGAATTAAGCGCTC	21 060
1	21 061	AGTTGACGGGGAGGGTTACAACGTTGCCAGTGTAACATGACCAAAGACTGGTTCCTGGT	21 120
2	21 061	AGTTGACGGGGAGGGTTACAACGTTGCCAGTGTAACATGACCAAAGACTGGTTCCTGGT	21 120
1	21 121	ACAAATGCTAGCTAACTATAACATTGGCTACCAGGGCTTCTATATCCAGAGAGCTACAA	21 180
2	21 121	ACAAATGCTAGCTAACTATAACATTGGCTACCAGGGCTTCTATATCCAGAGAGCTACAA	21 180
1	21 181	GGACCGCATGTACTCCTTCTTTAGAACTTCCAGCCCATGAGCCGTCAGGTGGTGGATGA	21 240
2	21 181	GGACCGCATGTACTCCTTCTTTAGAACTTCCAGCCCATGAGCCGTCAGGTGGTGGATGA	21 240
1	21 241	TACTAAATACAAGGACTACCAACAGGTGGGCATCCTACACCAACACAACAACCTCTGGATT	21 300
2	21 241	TACTAAATACAAGGACTACCAACAGGTGGGCATCCTACACCAACACAACAACCTCTGGATT	21 300
1	21 301	TGTTGGCTACCTTGCCCCACCATGCGCGAAGGACAGGCCTACCCTGCTAACTTCCCCTA	21 360
2	21 301	TGTTGGCTACCTTGCCCCACCATGCGCGAAGGACAGGCCTACCCTGCTAACTTCCCCTA	21 360
1	21 361	TCCGCTTATAGGCAAGACCGCAGTTGACAGCATTACCCAGAAAAAGTTTCTTTGCGATCG	21 420
2	21 361	TCCGCTTATAGGCAAGACCGCAGTTGACAGCATTACCCAGAAAAAGTTTCTTTGCGATCG	21 420
1	21 421	CACCCTTTGCGCATCCATTCTCCAGTAACTTTATGTCCATGGGCGCACTCACAGACCT	21 480
2	21 421	CACCCTTTGCGCATCCATTCTCCAGTAACTTTATGTCCATGGGCGCACTCACAGACCT	21 480
1	21 481	GGGCCAAAACCTTCTCTACGCCAACTCCGCCACGCGCTAGACATGACTTTTGAGGTGGA	21 540
2	21 481	GGGCCAAAACCTTCTCTACGCCAACTCCGCCACGCGCTAGACATGACTTTTGAGGTGGA	21 540

1	21 541	TCCCATGGACGAGCCACCCCTTCTTTATGTTTTGTTTGAAGTCTTTGACGTGGTCCGTGT 	21 600
2	21 541	TCCCATGGACGAGCCACCCCTTCTTTATGTTTTGTTTGAAGTCTTTGACGTGGTCCGTGT	21 600
1	21 601	GCACCAGCCGCACCGCGGCGTCATCGAAACCGTGACCTGCGCACGCCCTTCTCGGCCGG 	21 660
2	21 601	GCACCAGCCGCACCGCGGCGTCATCGAAACCGTGACCTGCGCACGCCCTTCTCGGCCGG	21 660
1	21 661	CAACGCCACAACATAAAGAAGCAAGCAACATCAACAACAGCTGCCGCCATGGGCTCCAGT 	21 720
2	21 661	CAACGCCACAACATAAAGAAGCAAGCAACATCAACAACAGCTGCCGCCATGGGCTCCAGT	21 720
1	21 721	GAGCAGGAACTGAAAGCCATTGTCAAAGATCTTGTTGTGGGCCATATTTTTTGGGCACC 	21 780
2	21 721	GAGCAGGAACTGAAAGCCATTGTCAAAGATCTTGTTGTGGGCCATATTTTTTGGGCACC	21 780
1	21 781	TATGACAAGCGCTTTCCAGGCTTTGTTTCTCCACACAAGCTCGCCTGCGCCATAGTCAAT 	21 840
2	21 781	TATGACAAGCGCTTTCCAGGCTTTGTTTCTCCACACAAGCTCGCCTGCGCCATAGTCAAT	21 840
1	21 841	ACGGCCGGTCGCGAGACTGGGGGCGTACACTGGATGGCCTTTGCCTGGAACCCGCACTCA 	21 900
2	21 841	ACGGCCGGTCGCGAGACTGGGGGCGTACACTGGATGGCCTTTGCCTGGAACCCGCACTCA	21 900
1	21 901	AAAACATGCTACCTCTTTGAGCCCTTTGGCTTTTCTGACCAGCGACTCAAGCAGGTTTAC 	21 960
2	21 901	AAAACATGCTACCTCTTTGAGCCCTTTGGCTTTTCTGACCAGCGACTCAAGCAGGTTTAC	21 960
1	21 961	CAGTTTGAGTACGAGTCACTCCTGCGCCGTAGCGCCATTGCTTCTTCCCCGACCGCTGT 	22 020
2	21 961	CAGTTTGAGTACGAGTCACTCCTGCGCCGTAGCGCCATTGCTTCTTCCCCGACCGCTGT	22 020
1	22 021	ATAACGCTGGAAAAGTCCACCCAAAGCGTACAGGGGCCCAACTCGGCCGCCTGTGGACTA 	22 080
2	22 021	ATAACGCTGGAAAAGTCCACCCAAAGCGTACAGGGGCCCAACTCGGCCGCCTGTGGACTA	22 080
1	22 081	TTCTGCTGCATGTTTCTCCACGCCTTTGCCAACTGGCCCCAAACTCCCATGGATCACAAC 	22 140
2	22 081	TTCTGCTGCATGTTTCTCCACGCCTTTGCCAACTGGCCCCAAACTCCCATGGATCACAAC	22 140

1	22 141	CCCACCATGAACCTTATTACCGGGGTACCCAACCTCCATGCTCAACAGTCCCCAGGTACAG	22 200
2	22 141		
2	22 141	CCCACCATGAACCTTATTACCGGGGTACCCAACCTCCATGCTCAACAGTCCCCAGGTACAG	22 200
1	22 201	CCCACCCTGCGTCGCAACCAGGAACAGCTCTACAGCTTCCTGGAGCGCCACTCGCCCTAC	22 260
2	22 201		
2	22 201	CCCACCCTGCGTCGCAACCAGGAACAGCTCTACAGCTTCCTGGAGCGCCACTCGCCCTAC	22 260
1	22 261	TTCCGCAGCCACAGTGCGCAGATTAGGAGCGCCACTTCTTTTTGTCACCTGAAAAACATG	22 320
2	22 261		
2	22 261	TTCCGCAGCCACAGTGCGCAGATTAGGAGCGCCACTTCTTTTTGTCACCTGAAAAACATG	22 320
1	22 321	TAAAAATAATGTACTAGAGACACTTTCAATAAAGGCCAAATGCTTTTTATTTGTACACTCTC	22 380
2	22 321		
2	22 321	TAAAAATAATGTACTAGAGACACTTTCAATAAAGGCCAAATGCTTTTTATTTGTACACTCTC	22 380
1	22 381	GGGTGATTATTTACCCCCACCCTTGCCGTCTGCGCCGTTTAAAAATCAAAGGGGTTCTGC	22 440
2	22 381		
2	22 381	GGGTGATTATTTACCCCCACCCTTGCCGTCTGCGCCGTTTAAAAATCAAAGGGGTTCTGC	22 440
1	22 441	CGCGCATCGCTATGCGCCACTGGCAGGGACACGTTGCGATACTGGTGTTTAGTGCTCCAC	22 500
2	22 441		
2	22 441	CGCGCATCGCTATGCGCCACTGGCAGGGACACGTTGCGATACTGGTGTTTAGTGCTCCAC	22 500
1	22 501	TTAAACTCAGGCACAACCATCCGCGGCAGCTCGGTGAAGTTTTCACTCCACAGGCTGCGC	22 560
2	22 501		
2	22 501	TTAAACTCAGGCACAACCATCCGCGGCAGCTCGGTGAAGTTTTCACTCCACAGGCTGCGC	22 560
1	22 561	ACCATCACCAACGCGTTTTAGCAGGTCGGGCGCCGATATCTTGAAGTCGCAGTTGGGGCCT	22 620
2	22 561		
2	22 561	ACCATCACCAACGCGTTTTAGCAGGTCGGGCGCCGATATCTTGAAGTCGCAGTTGGGGCCT	22 620
1	22 621	CCGCCCTGCGCGCGCGAGTTGCGATACACAGGGTTGCAGCACTGGAACACTATCAGCGCC	22 680
2	22 621		
2	22 621	CCGCCCTGCGCGCGCGAGTTGCGATACACAGGGTTGCAGCACTGGAACACTATCAGCGCC	22 680
1	22 681	GGGTGGTGCACGCTGGCCAGCACGCTCTTGTCGGAGATCAGATCCGCGTCCAGGTCTCC	22 740
2	22 681		
2	22 681	GGGTGGTGCACGCTGGCCAGCACGCTCTTGTCGGAGATCAGATCCGCGTCCAGGTCTCC	22 740

1	22 741	GCGTTGCTCAGGGCGAACGGAGTCAACTTTGGTAGCTGCCTTCCCAAAAAGGGCGCGTGC	22 800
2	22 741	GCGTTGCTCAGGGCGAACGGAGTCAACTTTGGTAGCTGCCTTCCCAAAAAGGGCGCGTGC	22 800
1	22 801	CCAGGCTTTGAGTTGCACTCGCACCGTAGTGGCATCAAAAGGTGACCGTGCCCGGTCTGG	22 860
2	22 801	CCAGGCTTTGAGTTGCACTCGCACCGTAGTGGCATCAAAAGGTGACCGTGCCCGGTCTGG	22 860
1	22 861	GCGTTAGGATACAGCGCCTGCATAAAAGCCTTGATCTGCTTAAAAGCCACCTGAGCCTTT	22 920
2	22 861	GCGTTAGGATACAGCGCCTGCATAAAAGCCTTGATCTGCTTAAAAGCCACCTGAGCCTTT	22 920
1	22 921	GCGCCTTCAGAGAAGAACATGCCGCAAGACTTGCCGGAAAAGTATTGGCCGGACAGGCC	22 980
2	22 921	GCGCCTTCAGAGAAGAACATGCCGCAAGACTTGCCGGAAAAGTATTGGCCGGACAGGCC	22 980
1	22 981	GCGTCGTGCACGCAGCACCTTGCGTCGGTGTGGAGATCTGCACCACATTTGGGCCCCAC	23 040
2	22 981	GCGTCGTGCACGCAGCACCTTGCGTCGGTGTGGAGATCTGCACCACATTTGGGCCCCAC	23 040
1	23 041	CGGTTCTTCACGATCTTGGCCTTGCTAGACTGCTCCTTCAGCGCGCGCTGCCCGTTTTCG	23 100
2	23 041	CGGTTCTTCACGATCTTGGCCTTGCTAGACTGCTCCTTCAGCGCGCGCTGCCCGTTTTCG	23 100
1	23 101	CTCGTCACATCCATTTCAATCACGTGCTCCTTATTTATCATAATGCTTCCGTGTAGACAC	23 160
2	23 101	CTCGTCACATCCATTTCAATCACGTGCTCCTTATTTATCATAATGCTTCCGTGTAGACAC	23 160
1	23 161	TTAAGCTCGCCTTCGATCTCAGCGCAGCGGTGCAGCCACAACGCGCAGCCCGTGGGCTCG	23 220
2	23 161	TTAAGCTCGCCTTCGATCTCAGCGCAGCGGTGCAGCCACAACGCGCAGCCCGTGGGCTCG	23 220
1	23 221	TGATGCTTGTAGGTACCTCTGCAAACGACTGCAGGTACGCCTGCAGGAATCGCCCCATC	23 280
2	23 221	TGATGCTTGTAGGTACCTCTGCAAACGACTGCAGGTACGCCTGCAGGAATCGCCCCATC	23 280
1	23 281	ATCGTCACAAAGGTCTTGTGCTGGTGAAGGTCAGCTGCAACCCGCGGTGCTCCTCGTTC	23 340
2	23 281	ATCGTCACAAAGGTCTTGTGCTGGTGAAGGTCAGCTGCAACCCGCGGTGCTCCTCGTTC	23 340

1	23 341	AGCCAGGTCTTGCATACGGCCGCCAGAGCTTCCACTTGGTCAGGCAGTAGTTTGAAGTTC	23 400
2	23 341	AGCCAGGTCTTGCATACGGCCGCCAGAGCTTCCACTTGGTCAGGCAGTAGTTTGAAGTTC	23 400
1	23 401	GCCTTTAGATCGTTATCCACGTGGTACTTGTCCATCAGCGCGCGCAGCCTCCATGCCC	23 460
2	23 401	GCCTTTAGATCGTTATCCACGTGGTACTTGTCCATCAGCGCGCGCAGCCTCCATGCCC	23 460
1	23 461	TTCTCCCACGCAGACACGATCGGCACACTCAGCGGGTTCATCACCGTAATTTCACTTTCC	23 520
2	23 461	TTCTCCCACGCAGACACGATCGGCACACTCAGCGGGTTCATCACCGTAATTTCACTTTCC	23 520
1	23 521	GCTTCGCTGGGCTCTTCCTCTTCCTCTTGCGTCCGCATACCACGCGCCACTGGGTCTGTCT	23 580
2	23 521	GCTTCGCTGGGCTCTTCCTCTTCCTCTTGCGTCCGCATACCACGCGCCACTGGGTCTGTCT	23 580
1	23 581	TCATTCAGCCGCCGCACTGTGCGCTTACCTCCTTTGCCATGCTTGATTAGCACCGGTGGG	23 640
2	23 581	TCATTCAGCCGCCGCACTGTGCGCTTACCTCCTTTGCCATGCTTGATTAGCACCGGTGGG	23 640
1	23 641	TTGCTGAAACCCACCATTTGTAGCGCCACATCTTCTCTTTCTTCCTCGCTGTCCACGATT	23 700
2	23 641	TTGCTGAAACCCACCATTTGTAGCGCCACATCTTCTCTTTCTTCCTCGCTGTCCACGATT	23 700
1	23 701	ACCTCTGGTGATGGCGGGCGCTCGGGCTTGGGAGAAGGGCGCTTCTTTTTCTTCTTGGGC	23 760
2	23 701	ACCTCTGGTGATGGCGGGCGCTCGGGCTTGGGAGAAGGGCGCTTCTTTTTCTTCTTGGGC	23 760
1	23 761	GCAATGGCCAAATCCGCCGCCGAGGTTCGATGGCCGCGGGCTGGGTGTGCGCGGCACCAGC	23 820
2	23 761	GCAATGGCCAAATCCGCCGCCGAGGTTCGATGGCCGCGGGCTGGGTGTGCGCGGCACCAGC	23 820
1	23 821	GCGTCTTGTGATGAGTCTTCCTCGTCTCCTCGGACTCGATACGCCGCCTCATCCGCTTTTTT	23 880
2	23 821	GCGTCTTGTGATGAGTCTTCCTCGTCTCCTCGGACTCGATACGCCGCCTCATCCGCTTTTTT	23 880
1	23 881	GGGGGCGCCCGGGGAGGCGGCGGCGACGGGGACGGGGACGACACGTCCTCCATGGTTGGG	23 940
2	23 881	GGGGGCGCCCGGGGAGGCGGCGGCGACGGGGACGGGGACGACACGTCCTCCATGGTTGGG	23 940

1	23 941	GGACGTCGCGCCGCGCACCGCGTCCGCGCTCGGGGGTGGTTTCGCGCTGCTCCTCTTCCCGA	24 000
2	23 941	GGACGTCGCGCCGCGCACCGCGTCCGCGCTCGGGGGTGGTTTCGCGCTGCTCCTCTTCCCGA	24 000
1	24 001	CTGGCCATTTCTTCTCCTATAGGCAGAAAAAGATCATGGAGTCAGTCGAGAAGAAGGAC	24 060
2	24 001	CTGGCCATTTCTTCTCCTATAGGCAGAAAAAGATCATGGAGTCAGTCGAGAAGAAGGAC	24 060
1	24 061	AGCCTAACCGCCCCCTCTGAGTTCGCCACCACCGCCTCCACCGATGCCGCCAACGCGCCT	24 120
2	24 061	AGCCTAACCGCCCCCTCTGAGTTCGCCACCACCGCCTCCACCGATGCCGCCAACGCGCCT	24 120
1	24 121	ACCACCTTCCCCGTGCGAGGCACCCCCGCTTGAGGAGGAGGAAGTGATTATCGAGCAGGAC	24 180
2	24 121	ACCACCTTCCCCGTGCGAGGCACCCCCGCTTGAGGAGGAGGAAGTGATTATCGAGCAGGAC	24 180
1	24 181	CCAGGTTTTGTAAGCGAAGACGACGAGGACCGCTCAGTACCAACAGAGGATAAAAAGCAA	24 240
2	24 181	CCAGGTTTTGTAAGCGAAGACGACGAGGACCGCTCAGTACCAACAGAGGATAAAAAGCAA	24 240
1	24 241	GACCAGGACAACGCAGAGGCCAAACGAGGAACAAGTCGGGCGGGGGGACGAAAGGCATGGC	24 300
2	24 241	GACCAGGACAACGCAGAGGCCAAACGAGGAACAAGTCGGGCGGGGGGACGAAAGGCATGGC	24 300
1	24 301	GACTACCTAGATGTGGGAGACGACGTGCTGTTGAAGCATCTGCAGCGCCAGTGCGCCATT	24 360
2	24 301	GACTACCTAGATGTGGGAGACGACGTGCTGTTGAAGCATCTGCAGCGCCAGTGCGCCATT	24 360
1	24 361	ATCTGCGACGCGTTGCAAGAGCGCAGCGATGTGCCCTCGCCATAGCGGATGTCAGCCTT	24 420
2	24 361	ATCTGCGACGCGTTGCAAGAGCGCAGCGATGTGCCCTCGCCATAGCGGATGTCAGCCTT	24 420
1	24 421	GCCTACGAACGCCACCTATTCTCACCGCGCGTACCCCCAAACGCCAAGAAAACGGCACA	24 480
2	24 421	GCCTACGAACGCCACCTATTCTCACCGCGCGTACCCCCAAACGCCAAGAAAACGGCACA	24 480
1	24 481	TGCGAGCCCAACCCGCGCCTCAACTTCTACCCCGTATTTGCCGTGCCAGAGGTGCTTGCC	24 540
2	24 481	TGCGAGCCCAACCCGCGCCTCAACTTCTACCCCGTATTTGCCGTGCCAGAGGTGCTTGCC	24 540

1	24 541	ACCTATCACATCTTTTTCCAAAACCTGCAAGATACCCCTATCCTGCCGTGCCAACC GCAGC	24 600
2	24 541	ACCTATCACATCTTTTTCCAAAACCTGCAAGATACCCCTATCCTGCCGTGCCAACC GCAGC	24 600
1	24 601	CGAGCGGACAAGCAGCTGGCCTTGCGGCAGGGCGCTGTCATACCTGATATCGCCTCGCTC	24 660
2	24 601	CGAGCGGACAAGCAGCTGGCCTTGCGGCAGGGCGCTGTCATACCTGATATCGCCTCGCTC	24 660
1	24 661	AACGAAGTGCCAAAATCTTTGAGGGTCTTGGACGCGACGAGAAGCGCGGGCAAACGCT	24 720
2	24 661	AACGAAGTGCCAAAATCTTTGAGGGTCTTGGACGCGACGAGAAGCGCGGGCAAACGCT	24 720
1	24 721	CTGCAACAGGAAAACAGCGAAAATGAAAGTCACTCTGGAGTGTTGGTGGAACTCGAGGGT	24 780
2	24 721	CTGCAACAGGAAAACAGCGAAAATGAAAGTCACTCTGGAGTGTTGGTGGAACTCGAGGGT	24 780
1	24 781	GACAACGCGCGCCTAGCCGTACTAAAACGCAGCATCGAGGTCACCCACTTTGCCTACCCG	24 840
2	24 781	GACAACGCGCGCCTAGCCGTACTAAAACGCAGCATCGAGGTCACCCACTTTGCCTACCCG	24 840
1	24 841	GCACTTAACCTACCCCCAAGGTCATGAGCACAGTCATGAGTGAGCTGATCGTGCGCCGT	24 900
2	24 841	GCACTTAACCTACCCCCAAGGTCATGAGCACAGTCATGAGTGAGCTGATCGTGCGCCGT	24 900
1	24 901	GCGCAGCCCCTGGAGAGGGATGCAAATTTGCAAGAACAACAGAGGAGGGCCTACCCGCA	24 960
2	24 901	GCGCAGCCCCTGGAGAGGGATGCAAATTTGCAAGAACAACAGAGGAGGGCCTACCCGCA	24 960
1	24 961	GTTGGCGACGAGCAGCTAGCGCGCTGGCTTCAAACGCGCGAGCCTGCCGACTTGGAGGAG	25 020
2	24 961	GTTGGCGACGAGCAGCTAGCGCGCTGGCTTCAAACGCGCGAGCCTGCCGACTTGGAGGAG	25 020
1	25 021	CGACGCAAACCTAATGATGGCCGCAGTGCTCGTTACCGTGGAGCTTGAAGTGCATGCAGCGG	25 080
2	25 021	CGACGCAAACCTAATGATGGCCGCAGTGCTCGTTACCGTGGAGCTTGAAGTGCATGCAGCGG	25 080
1	25 081	TTCTTTGCTGACCCGGAGATGCAGCGCAAGCTAGAGGAAACATTGCACTACACCTTTTTCGA	25 140
2	25 081	TTCTTTGCTGACCCGGAGATGCAGCGCAAGCTAGAGGAAACATTGCACTACACCTTTTTCGA	25 140

1	25 141	CAGGGCTACGTACGCCAGGCCTGCAAGATCTCCAACGTGGAGCTCTGCAACCTGGTCTCC	25 200
2	25 141	CAGGGCTACGTACGCCAGGCCTGCAAGATCTCCAACGTGGAGCTCTGCAACCTGGTCTCC	25 200
1	25 201	TACCTTGAATTTTGCACGAAAACCGCCTTGGGCAAACGTGCTTCATTCCACGCTCAAG	25 260
2	25 201	TACCTTGAATTTTGCACGAAAACCGCCTTGGGCAAACGTGCTTCATTCCACGCTCAAG	25 260
1	25 261	GGCGAGGCGCGCCGCGACTACGTCCGCGACTGCGTTTACTTATTTCTATGCTACACCTGG	25 320
2	25 261	GGCGAGGCGCGCCGCGACTACGTCCGCGACTGCGTTTACTTATTTCTATGCTACACCTGG	25 320
1	25 321	CAGACGGCCATGGGCGTTTGGCAGCAGTGCTTGGAGGAGTGCAACCTCAAGGAGCTGCAG	25 380
2	25 321	CAGACGGCCATGGGCGTTTGGCAGCAGTGCTTGGAGGAGTGCAACCTCAAGGAGCTGCAG	25 380
1	25 381	AAACTGCTAAAGCAAACTTGAAGGACCTATGGACGGCCTTCAACGAGCGCTCCGTGGCC	25 440
2	25 381	AAACTGCTAAAGCAAACTTGAAGGACCTATGGACGGCCTTCAACGAGCGCTCCGTGGCC	25 440
1	25 441	GCGCACCTGGCGGACATCATTTTCCCCGAACGCCTGCTTAAAACCTGCAACAGGGTCTG	25 500
2	25 441	GCGCACCTGGCGGACATCATTTTCCCCGAACGCCTGCTTAAAACCTGCAACAGGGTCTG	25 500
1	25 501	CCAGACTTCACCAGTCAAAGCATGTTGCAGAACTTTAGGAACTTTATCCTAGAGCGCTCA	25 560
2	25 501	CCAGACTTCACCAGTCAAAGCATGTTGCAGAACTTTAGGAACTTTATCCTAGAGCGCTCA	25 560
1	25 561	GGAATCTTGCCCGCCACCTGCTGTGCACTTCTAGCGACTTTGTGCCATTAAGTACCGC	25 620
2	25 561	GGAATCTTGCCCGCCACCTGCTGTGCACTTCTAGCGACTTTGTGCCATTAAGTACCGC	25 620
1	25 621	GAATGCCCTCCGCGCTTTGGGGCCACTGCTACCTTCTGCAGCTAGCCAACCTACCTTGCC	25 680
2	25 621	GAATGCCCTCCGCGCTTTGGGGCCACTGCTACCTTCTGCAGCTAGCCAACCTACCTTGCC	25 680
1	25 681	TACCACTCTGACATAATGGAAGACGTGAGCGGTGACGGTCTACTGGAGTGCTACTGTCGC	25 740
2	25 681	TACCACTCTGACATAATGGAAGACGTGAGCGGTGACGGTCTACTGGAGTGCTACTGTCGC	25 740

1	25 741	TGCAACCTATGCACCCCGCACCGCTCCCTGGTTTGC AATTCGCAGCTGCTTAACGAAAGT	25 800
2	25 741	TGCAACCTATGCACCCCGCACCGCTCCCTGGTTTGC AATTCGCAGCTGCTTAACGAAAGT	25 800
1	25 801	CAAATTATCGGTACCTTTGAGCTGCAGGGTCCCTCGCCTGACGAAAAGTCCGCGGCTCCG	25 860
2	25 801	CAAATTATCGGTACCTTTGAGCTGCAGGGTCCCTCGCCTGACGAAAAGTCCGCGGCTCCG	25 860
1	25 861	GGGTTGAAACTCACTCCGGGGCTGTGGACGTCCGCTTACCTTCGCAAATTTGTACCTGAG	25 920
2	25 861	GGGTTGAAACTCACTCCGGGGCTGTGGACGTCCGCTTACCTTCGCAAATTTGTACCTGAG	25 920
1	25 921	GACTACCACGCCACGAGATTAGGTTCTACGAAGACCAATCCCGCCGCCTAATGCGGAG	25 980
2	25 921	GACTACCACGCCACGAGATTAGGTTCTACGAAGACCAATCCCGCCGCCTAATGCGGAG	25 980
1	25 981	CTTACCGCCTGCGTCATTACCCAGGGCCACATTCTTGGCCAATTGCAAGCCATCAACAAA	26 040
2	25 981	CTTACCGCCTGCGTCATTACCCAGGGCCACATTCTTGGCCAATTGCAAGCCATCAACAAA	26 040
1	26 041	GCCCGCCAAGAGTTTCTGCTACGAAAGGGACGGGGGTTTACTTTGGACCCCCAGTCCGGC	26 100
2	26 041	GCCCGCCAAGAGTTTCTGCTACGAAAGGGACGGGGGTTTACTTTGGACCCCCAGTCCGGC	26 100
1	26 101	GAGGAGCTCAACCCAATCCCCCGCCGCGCAGCCCTATCAGCAGCAGCCGCGGGCCCTT	26 160
2	26 101	GAGGAGCTCAACCCAATCCCCCGCCGCGCAGCCCTATCAGCAGCAGCCGCGGGCCCTT	26 160
1	26 161	GCTTCCCAGGATGGCACCCAAAAAGAAGCTGCAGCTGCCGCGCCACCCACGGACGAGGA	26 220
2	26 161	GCTTCCCAGGATGGCACCCAAAAAGAAGCTGCAGCTGCCGCGCCACCCACGGACGAGGA	26 220
1	26 221	GGAATACTGGGACAGTCAGGCAGAGGAGTTTTGGACGAGGAGGAGGAGGACATGATGGA	26 280
2	26 221	GGAATACTGGGACAGTCAGGCAGAGGAGTTTTGGACGAGGAGGAGGAGGACATGATGGA	26 280
1	26 281	AGACTGGGAGAGCCTAGACGAGGAAGCTTCCGAGGTCGAAGAGGTGTCAGACGAAACACC	26 340
2	26 281	AGACTGGGAGAGCCTAGACGAGGAAGCTTCCGAGGTCGAAGAGGTGTCAGACGAAACACC	26 340

1	26 341	GTCACCCTCGGTCGCATTCCCCTCGCCGGCGCCCCAGAAATCGGCAACCGGTTCCAGCAT	26 400
2	26 341	GTCACCCTCGGTCGCATTCCCCTCGCCGGCGCCCCAGAAATCGGCAACCGGTTCCAGCAT	26 400
1	26 401	GGCTACAACCTCCGCTCCTCAGGCGCCGCGGCACTGCCCGTTGCGCGACCCAACCGTAG	26 460
2	26 401	GGCTACAACCTCCGCTCCTCAGGCGCCGCGGCACTGCCCGTTGCGCGACCCAACCGTAG	26 460
1	26 461	ATGGGACACCACTGGAACCAGGGCCGGTAAGTCCAAGCAGCCGCGCCGTTAGCCCAAGA	26 520
2	26 461	ATGGGACACCACTGGAACCAGGGCCGGTAAGTCCAAGCAGCCGCGCCGTTAGCCCAAGA	26 520
1	26 521	GCAACAACAGCGCCAAGGCTACCGCTCATGGCGCGGGCACAGAAGGCCATAGTTGCTTG	26 580
2	26 521	GCAACAACAGCGCCAAGGCTACCGCTCATGGCGCGGGCACAGAAGGCCATAGTTGCTTG	26 580
1	26 581	CTTGCAAGACTGTGGGGGCAACATCTCCTTCGCCCGCCGCTTTCTTCTCTACCATCACGG	26 640
2	26 581	CTTGCAAGACTGTGGGGGCAACATCTCCTTCGCCCGCCGCTTTCTTCTCTACCATCACGG	26 640
1	26 641	CGTGGCCTTCCCCGTAACATCCTGCATTACTACCGTCATCTCTACAGCCATACTGCAC	26 700
2	26 641	CGTGGCCTTCCCCGTAACATCCTGCATTACTACCGTCATCTCTACAGCCATACTGCAC	26 700
1	26 701	CGGCGGCAGCGGCAGCAACAGCAGCGGCCACACAGAAGCAAAGGCGACCGGATAGCAAGA	26 760
2	26 701	CGGCGGCAGCGGCAGCAACAGCAGCGGCCACACAGAAGCAAAGGCGACCGGATAGCAAGA	26 760
1	26 761	CTCTGACAAAGCCCAAGAAATCCACAGCGGCGGCAGCAGCAGGAGGAGGAGCGCTGCGTC	26 820
2	26 761	CTCTGACAAAGCCCAAGAAATCCACAGCGGCGGCAGCAGCAGGAGGAGGAGCGCTGCGTC	26 820
1	26 821	TGGCGCCCAACGAACCCGTATCGACCCGCGAGCTTAGAAACAGGATTTTTCCCACTCTGT	26 880
2	26 821	TGGCGCCCAACGAACCCGTATCGACCCGCGAGCTTAGAAACAGGATTTTTCCCACTCTGT	26 880
1	26 881	ATGCTATATTTCAACAGAGCAGGGGCCAAGAACAAGAGCTGAAAATAAAAAACAGGTCTC	26 940
2	26 881	ATGCTATATTTCAACAGAGCAGGGGCCAAGAACAAGAGCTGAAAATAAAAAACAGGTCTC	26 940

1	26 941	TGCGATCCCTCACCCGCAGCTGCCTGTATCACAAAAGCGAAGATCAGCTTCGGCGCACGC	27 000
2	26 941	TGCGATCCCTCACCCGCAGCTGCCTGTATCACAAAAGCGAAGATCAGCTTCGGCGCACGC	27 000
1	27 001	TGGAAGACGCGGAGGCTCTCTTCAGTAAATACTGCGCGCTGACTCTTAAGGACTAGTTTC	27 060
2	27 001	TGGAAGACGCGGAGGCTCTCTTCAGTAAATACTGCGCGCTGACTCTTAAGGACTAGTTTC	27 060
1	27 061	GCGCCCTTTCTCAAATTTAAGCGCGAAAACACTACGTCATCTCCAGCGGCCACACCCGGCGC	27 120
2	27 061	GCGCCCTTTCTCAAATTTAAGCGCGAAAACACTACGTCATCTCCAGCGGCCACACCCGGCGC	27 120
1	27 121	CAGCACCTGTTGTCAGCGCCATTATGAGCAAGGAAATTCACGCGCCCTACATGTGGAGTT	27 180
2	27 121	CAGCACCTGTTGTCAGCGCCATTATGAGCAAGGAAATTCACGCGCCCTACATGTGGAGTT	27 180
1	27 181	ACCAGCCACAAATGGGACTTGCGGCTGGAGCTGCCAAGACTACTCAACCCGAATAAACT	27 240
2	27 181	ACCAGCCACAAATGGGACTTGCGGCTGGAGCTGCCAAGACTACTCAACCCGAATAAACT	27 240
1	27 241	ACATGAGCGCGGGACCCACATGATATCCCGGGTCAACGGAATACGCGCCCACCGAAACC	27 300
2	27 241	ACATGAGCGCGGGACCCACATGATATCCCGGGTCAACGGAATACGCGCCCACCGAAACC	27 300
1	27 301	GAATTCTCCTGGAACAGGCGGCTATTACCACCACACCTCGTAATAACCTTAATCCCGTA	27 360
2	27 301	GAATTCTCCTGGAACAGGCGGCTATTACCACCACACCTCGTAATAACCTTAATCCCGTA	27 360
1	27 361	GTTGGCCCGCTGCCCTGGTGTACCAGGAAAGTCCCGCTCCCACCACTGTGGTACTTCCCA	27 420
2	27 361	GTTGGCCCGCTGCCCTGGTGTACCAGGAAAGTCCCGCTCCCACCACTGTGGTACTTCCCA	27 420
1	27 421	GAGACGCCAGGCCGAAGTTCAGATGACTAACTCAGGGGCGCAGCTTGCGGGCGGCTTTC	27 480
2	27 421	GAGACGCCAGGCCGAAGTTCAGATGACTAACTCAGGGGCGCAGCTTGCGGGCGGCTTTC	27 480
1	27 481	GTCACAGGGTGCGGTCGCCCGGGCAGGGTATAACTCACCTGACAATCAGAGGGCGAGGTA	27 540
2	27 481	GTCACAGGGTGCGGTCGCCCGGGCAGGGTATAACTCACCTGACAATCAGAGGGCGAGGTA	27 540

1	27 541	TTCAGCTCAACGACGAGTCGGTGAGCTCCTCGCTTGGTCTCCGTCCGGACGGGACATTTCT 	27 600
2	27 541	TTCAGCTCAACGACGAGTCGGTGAGCTCCTCGCTTGGTCTCCGTCCGGACGGGACATTTCT 	27 600
1	27 601	AGATCGGCGGCGCCGGCCGCTCTTCATTCACGCCTCGTCAGGCAATCCTAACTCTGCAGA 	27 660
2	27 601	AGATCGGCGGCGCCGGCCGCTCTTCATTCACGCCTCGTCAGGCAATCCTAACTCTGCAGA 	27 660
1	27 661	CCTCGTCCTCTGAGCCGCGCTCTGGAGGCATTGGAACCTCTGCAATTTATTGAGGAGTTTG 	27 720
2	27 661	CCTCGTCCTCTGAGCCGCGCTCTGGAGGCATTGGAACCTCTGCAATTTATTGAGGAGTTTG 	27 720
1	27 721	TGCCATCGGTCTACTTTAACCCTTCTCGGGACCTCCCGGCCACTATCCGGATCAATTTA 	27 780
2	27 721	TGCCATCGGTCTACTTTAACCCTTCTCGGGACCTCCCGGCCACTATCCGGATCAATTTA 	27 780
1	27 781	TTCTAACTTTGACGCGGTAAAGGACTCGGCGGACGGCTACGACTGAATGTTAAGTGGAG 	27 840
2	27 781	TTCTAACTTTGACGCGGTAAAGGACTCGGCGGACGGCTACGACTGAATGTTAAGTGGAG 	27 840
1	27 841	AGGCAGAGCAACTGCGCCTGAAACACCTGGTCCACTGTGCGCCGCCACAAGTGCTTTGCC 	27 900
2	27 841	AGGCAGAGCAACTGCGCCTGAAACACCTGGTCCACTGTGCGCCGCCACAAGTGCTTTGCC 	27 900
1	27 901	GCGACTCCGGTGAGTTTTGCTACTTTGAATTGCCCGAGGATCATATCGAGGGCCCGGCGC 	27 960
2	27 901	GCGACTCCGGTGAGTTTTGCTACTTTGAATTGCCCGAGGATCATATCGAGGGCCCGGCGC 	27 960
1	27 961	ACGGCGTCCGGCTTACCGCCAGGGAGAGCTTGCCCGTAGCCTGATTCGGGAGTTTACCC 	28 020
2	27 961	ACGGCGTCCGGCTTACCGCCAGGGAGAGCTTGCCCGTAGCCTGATTCGGGAGTTTACCC 	28 020
1	28 021	AGCGCCCCCTGCTAGTTGAGCGGGACAGGGGACCCTGTGTTCTCACTGTGATTTGCAACT 	28 080
2	28 021	AGCGCCCCCTGCTAGTTGAGCGGGACAGGGGACCCTGTGTTCTCACTGTGATTTGCAACT 	28 080
1	28 081	GTCCTAACCTGGATTACATCAAGATCTTTGTTGCCATCTCTGTGCTGAGTATAATAAAT 	28 140
2	28 081	GTCCTAACCTGGATTACATCAAGATCTTTGTTGCCATCTCTGTGCTGAGTATAATAAAT 	28 140

1	28 141	ACAGAAATTTAAAATATACTGGGGCTCCTATCGCCATCCTGTAAACGCCACCGTCTTCACC	28 200
2	28 141	ACAGAAATTTAAAATATACTGGGGCTCCTATCGCCATCCTGTAAACGCCACCGTCTTCACC	28 200
1	28 201	CGCCCAAGCAAACCAAGGCGAACCTTACCTGGTACTTTTAAACATCTCTCCCTCTGTGATT	28 260
2	28 201	CGCCCAAGCAAACCAAGGCGAACCTTACCTGGTACTTTTAAACATCTCTCCCTCTGTGATT	28 260
1	28 261	TACAACAGTTTCAACCCAGACGGAGTGAGTCTACGAGAGAACCTCTCCGAGCTCAGCTAC	28 320
2	28 261	TACAACAGTTTCAACCCAGACGGAGTGAGTCTACGAGAGAACCTCTCCGAGCTCAGCTAC	28 320
1	28 321	TCCATCAGAAAAACACCACCTCCTTACCTGCCGGGAACGTACGAGTGCGTCACCGGCC	28 380
2	28 321	TCCATCAGAAAAACACCACCTCCTTACCTGCCGGGAACGTACGAGTGCGTCACCGGCC	28 380
1	28 381	GCTGCACCACACCTACCGCCTGACCGTAAACCAGACTTTTTCCGGACAGACCTCAATAAC	28 440
2	28 381	GCTGCACCACACCTACCGCCTGACCGTAAACCAGACTTTTTCCGGACAGACCTCAATAAC	28 440
1	28 441	TCTGTTTACCAGAACAGGAGGTGAGCTTAGAAAACCTTAGGGTATTAGGCCAAAGGCGC	28 500
2	28 441	TCTGTTTACCAGAACAGGAGGTGAGCTTAGAAAACCTTAGGGTATTAGGCCAAAGGCGC	28 500
1	28 501	AGCTACTGTGGGGTTTACCATGGAAAGGGTCCAACCCCTGGAAGAGAATGTGGGAAATGC	28 560
2	28 501	AGCTACTGTGGGGTTTACCATGGAAAGGGTCCAACCCCTGGAAGAGAATGTGGGAAATGC	28 560
1	28 561	AGCCAGGCCAAGATTCGAGAGGAACAAGCTATTGCTGGTGGCCTCTGTAATTCAGGGACT	28 620
2	28 561	AGCCAGGCCAAGATTCGAGAGGAACAAGCTATTGCTGGTGGCCTCTGTAATTCAGGGACT	28 620
1	28 621	GGGGCTGCTCCTGTGCTTCACCTACATCTGCCTGCACTTCTCTGCTCTTCAGGTATCACA	28 680
2	28 621	GGGGCTGCTCCTGTGCTTCACCTACATCTGCCTGCACTTCTCTGCTCTTCAGGTATCACA	28 680
1	28 681	TCGGTATCCTCGAATTCAAAGTATCAAAGTACAATTTACCGAATATAAGAAGGAGAAAGG	28 740
2	28 681	TCGGTATCCTCGAATTCAAAGTATCAAAGTACAATTTACCGAATATAAGAAGGAGAAAGG	28 740

1	28 741	TTTCATCCTCACTTCCCAAAGGAGGATGAAATCATGAAGGTGCAGAACAACCTCAGTCAT	28 800
2	28 741	TTTCATCCTCACTTCCCAAAGGAGGATGAAATCATGAAGGTGCAGAACAACCTCAGTCAT	28 800
1	28 801	CATCAACTGTGATGGGTTTTATCTCATCTCCCTGAAGGGCTACTTCTCCAGGAAGTCAA	28 860
2	28 801	CATCAACTGTGATGGGTTTTATCTCATCTCCCTGAAGGGCTACTTCTCCAGGAAGTCAA	28 860
1	28 861	CATTAGCCTTCATTACCAGAAGGATGAGGAGCCCCTCTTCCAACCTGAAGAAGGTCAGGTC	28 920
2	28 861	CATTAGCCTTCATTACCAGAAGGATGAGGAGCCCCTCTTCCAACCTGAAGAAGGTCAGGTC	28 920
1	28 921	TGTCAACTCCTTGATGGTGGCCTCTCTGACTTACAAAGACAAAGTCTACTTGAATGTGAC	28 980
2	28 921	TGTCAACTCCTTGATGGTGGCCTCTCTGACTTACAAAGACAAAGTCTACTTGAATGTGAC	28 980
1	28 981	CACTGACAATACCTCCCTGGATGACTTCCATGTGAATGGCGGAGAAGTCTACTTATCCA	29 040
2	28 981	CACTGACAATACCTCCCTGGATGACTTCCATGTGAATGGCGGAGAAGTCTACTTATCCA	29 040
1	29 041	TCAAAATCCTGGTGAATTCTGTGTCCTTAGGAAGAGGAGGAGCGGCAGCGGCGAGGCCAG	29 100
2	29 041	TCAAAATCCTGGTGAATTCTGTGTCCTTAGGAAGAGGAGGAGCGGCAGCGGCGAGGCCAG	29 100
1	29 101	GCACAAGCAGAAGATCGTGGCCCCCGTGAAGCAGACCCTGAACTTCGACCTGCTGAAGCT	29 160
2	29 101	GCACAAGCAGAAGATCGTGGCCCCCGTGAAGCAGACCCTGAACTTCGACCTGCTGAAGCT	29 160
1	29 161	GGCCGGCGACGTGGAGAGCAACCCCGGCCCATGATCGAAACATACAACCAACTTCTCC	29 220
2	29 161	GGCCGGCGACGTGGAGAGCAACCCCGGCCCATGATCGAAACATACAACCAACTTCTCC	29 220
1	29 221	CCGATCTGCGGCCACTGGACTGCCATCAGCATGAAAATTTTATGTATTTACTTACTGT	29 280
2	29 221	CCGATCTGCGGCCACTGGACTGCCATCAGCATGAAAATTTTATGTATTTACTTACTGT	29 280
1	29 281	TTTTCTTATCACCCAGATGATTGGGTCAGCACTTTTTGCTGTGTATCTTCATAGAAGGTT	29 340
2	29 281	TTTTCTTATCACCCAGATGATTGGGTCAGCACTTTTTGCTGTGTATCTTCATAGAAGGTT	29 340

1	29 341	GGACAAGATAGAAGATGAAAGGAATCTTCATGAAGATTTTGTATTTCATGAAAACGATACA	29 400
2	29 341	GGACAAGATAGAAGATGAAAGGAATCTTCATGAAGATTTTGTATTTCATGAAAACGATACA	29 400
1	29 401	GAGATGCAACACAGGAGAAAGATCCTTATCCTTACTGAACTGTGAGGAGATTAAGCCAA	29 460
2	29 401	GAGATGCAACACAGGAGAAAGATCCTTATCCTTACTGAACTGTGAGGAGATTAAGCCAA	29 460
1	29 461	GTTTGAAGGCTTTGTGAAGGATATAATGTTAAACAAAGAGGAGACGAAGAAAGAAAACAG	29 520
2	29 461	GTTTGAAGGCTTTGTGAAGGATATAATGTTAAACAAAGAGGAGACGAAGAAAGAAAACAG	29 520
1	29 521	CTTTGAAATGCAAAAAGGTGATCAGAATCCTCAAATTGCGGCACATGTCATAAGTGAGGC	29 580
2	29 521	CTTTGAAATGCAAAAAGGTGATCAGAATCCTCAAATTGCGGCACATGTCATAAGTGAGGC	29 580
1	29 581	CAGCAGTAAAACAACATCTGTGTTACAGTGGGCTGAAAAGGATACTACACCATGAGCAA	29 640
2	29 581	CAGCAGTAAAACAACATCTGTGTTACAGTGGGCTGAAAAGGATACTACACCATGAGCAA	29 640
1	29 641	CAACTTGGTAACCCTGGAAAATGGGAAACAGCTGACCGTTAAAAGACAAGGACTCTATTA	29 700
2	29 641	CAACTTGGTAACCCTGGAAAATGGGAAACAGCTGACCGTTAAAAGACAAGGACTCTATTA	29 700
1	29 701	TATCTATGCCCAAGTCACCTTCTGTTCCAATCGGGAAGCTTCGAGTCAAGCTCCATTTAT	29 760
2	29 701	TATCTATGCCCAAGTCACCTTCTGTTCCAATCGGGAAGCTTCGAGTCAAGCTCCATTTAT	29 760
1	29 761	AGCCAGCCTCTGCCTAAAGTCCCCGGTAGATTTCGAGAGAATCTTACTCAGAGCTGCAAA	29 820
2	29 761	AGCCAGCCTCTGCCTAAAGTCCCCGGTAGATTTCGAGAGAATCTTACTCAGAGCTGCAAA	29 820
1	29 821	TACCCACAGTTCCGCCAAACCTTGCGGGCAACAATCCATTCACCTGGGAGGAGTATTTGA	29 880
2	29 821	TACCCACAGTTCCGCCAAACCTTGCGGGCAACAATCCATTCACCTGGGAGGAGTATTTGA	29 880
1	29 881	ATTGCAACCAGGTGCTTCGGTGTTTGTCAATGTGACTGATCCAAGCCAAGTGAGCCATGG	29 940
2	29 881	ATTGCAACCAGGTGCTTCGGTGTTTGTCAATGTGACTGATCCAAGCCAAGTGAGCCATGG	29 940

1	29 941	CACTGGCTTCACGTCCTTTGGCTTACTCAAACCTCTGATAATTTACTAAGTTACAAAGCTA	30 000
2	29 941	CACTGGCTTCACGTCCTTTGGCTTACTCAAACCTCTGATAATTTACTAAGTTACAAAGCTA	30 000
1	30 001	ATGTCACCACTAACTGCTTTACTCGCTGCTTGCAAAACAAATTCAAAAAGTTAGCATTAT	30 060
2	30 001	ATGTCACCACTAACTGCTTTACTCGCTGCTTGCAAAACAAATTCAAAAAGTTAGCATTAT	30 060
1	30 061	AATTAGAATAGGATTTAAACCCCCGGTCATTTCTGCTCAATACCATTCCCCTGAACAA	30 120
2	30 061	AATTAGAATAGGATTTAAACCCCCGGTCATTTCTGCTCAATACCATTCCCCTGAACAA	30 120
1	30 121	TTGACTCTATGTGGGATATGCTCCAGCGCTACAACCTTGAAGTCAGGCTTCTGGATGTC	30 180
2	30 121	TTGACTCTATGTGGGATATGCTCCAGCGCTACAACCTTGAAGTCAGGCTTCTGGATGTC	30 180
1	30 181	AGCATCTGACTTTGGCCAGCACCTGTCCCGCGGATTTGTTCCAGTCCAACCTACAGCGACC	30 240
2	30 181	AGCATCTGACTTTGGCCAGCACCTGTCCCGCGGATTTGTTCCAGTCCAACCTACAGCGACC	30 240
1	30 241	CACCCTAACAGAGATGACCAACACAACCAACGCGGCCGCGCTACCGGACTTACATCTAC	30 300
2	30 241	CACCCTAACAGAGATGACCAACACAACCAACGCGGCCGCGCTACCGGACTTACATCTAC	30 300
1	30 301	CACAAATACACCCCAAGTTTCTGCCTTTGTCAATAACTGGGATAACTTGGGCATGTGGTG	30 360
2	30 301	CACAAATACACCCCAAGTTTCTGCCTTTGTCAATAACTGGGATAACTTGGGCATGTGGTG	30 360
1	30 361	GTTCTCCATAGCGCTTATGTTTGTATGCCTTATTATTATGTGGCTCATCTGCTGCCTAAA	30 420
2	30 361	GTTCTCCATAGCGCTTATGTTTGTATGCCTTATTATTATGTGGCTCATCTGCTGCCTAAA	30 420
1	30 421	GCGCAAACGCGCCCGACCACCCATCTATAGTCCCATCATTGTGCTACACCCAAACAATGA	30 480
2	30 421	GCGCAAACGCGCCCGACCACCCATCTATAGTCCCATCATTGTGCTACACCCAAACAATGA	30 480
1	30 481	TGGAATCCATAGATTGGACGGACTGAAACACATGTTCTTTTCTCTTACAGTATGATTAAA	30 540
2	30 481	TGGAATCCATAGATTGGACGGACTGAAACACATGTTCTTTTCTCTTACAGTATGATTAAA	30 540

1	30 541	TGAGACATGATTCCTCGAGTTTTTATATTACTGACCCTTGTTGCGCTTTTTTGTGCGTGC	30 600
2	30 541	TGAGACATGATTCCTCGAGTTTTTATATTACTGACCCTTGTTGCGCTTTTTTGTGCGTGC	30 600
1	30 601	TCCACATTGGCTGCGGTTTCTCACATCGAAGTAGACTGCATTCCAGCCTTCACAGTCTAT	30 660
2	30 601	TCCACATTGGCTGCGGTTTCTCACATCGAAGTAGACTGCATTCCAGCCTTCACAGTCTAT	30 660
1	30 661	TTGCTTTACGGATTTGTCACCCTCACGCTCATCTGCAGCCTCATCACTGTGGTCATCGCC	30 720
2	30 661	TTGCTTTACGGATTTGTCACCCTCACGCTCATCTGCAGCCTCATCACTGTGGTCATCGCC	30 720
1	30 721	TTTATCCAGTGCATTGACTGGGTCTGTGTGCGCTTTGCATATCTCAGACACCATCCCCAG	30 780
2	30 721	TTTATCCAGTGCATTGACTGGGTCTGTGTGCGCTTTGCATATCTCAGACACCATCCCCAG	30 780
1	30 781	TACAGGGACAGGACTATAGCTGAGCTTCTTAGAATTCTTTAATTATGAAATTTACTGTGA	30 840
2	30 781	TACAGGGACAGGACTATAGCTGAGCTTCTTAGAATTCTTTAATTATGAAATTTACTGTGA	30 840
1	30 841	CTTTTCTGCTGATTATTTGCACCCTATCTGCGTTTTGTTCCCCGACCTCCAAGCCTCAAA	30 900
2	30 841	CTTTTCTGCTGATTATTTGCACCCTATCTGCGTTTTGTTCCCCGACCTCCAAGCCTCAAA	30 900
1	30 901	GACATATATCATGCAGATTCACCTCGTATATGGAATATTCCAAGTTGCTACAATGAAAAA	30 960
2	30 901	GACATATATCATGCAGATTCACCTCGTATATGGAATATTCCAAGTTGCTACAATGAAAAA	30 960
1	30 961	GCGATCTTTCCGAAGCCTGGTTATATGCAATCATCTCTGTTATGGTGTCTGCAGTACCA	31 020
2	30 961	GCGATCTTTCCGAAGCCTGGTTATATGCAATCATCTCTGTTATGGTGTCTGCAGTACCA	31 020
1	31 021	TCTTAGCCCTAGCTATATATCCCTACCTTGACATTGGCTGGAACGCAATAGATGCCATGA	31 080
2	31 021	TCTTAGCCCTAGCTATATATCCCTACCTTGACATTGGCTGGAACGCAATAGATGCCATGA	31 080
1	31 081	ACCACCCAACCTTTCCCCGCGCCGCTATGCTTCCACTGCAACAAGTTGTTGCCGGCGGCT	31 140
2	31 081	ACCACCCAACCTTTCCCCGCGCCGCTATGCTTCCACTGCAACAAGTTGTTGCCGGCGGCT	31 140

1	31 141	TTGTCCCAGCCAATCAGCCTCGGCCACCTTCTCCCACCCCACTGAAATCAGCTACTTTA	31 200
2	31 141	TTGTCCCAGCCAATCAGCCTCGGCCACCTTCTCCCACCCCACTGAAATCAGCTACTTTA	31 200
1	31 201	ATCTAACAGGAGGAGACGACTGATAAAAAAAAAATAATAAAGCATCACTTACTTAAAATCA	31 260
2	31 201	ATCTAACAGGAGGAGACGACTGATAAAAAAAAAATAATAAAGCATCACTTACTTAAAATCA	31 260
1	31 261	GTTAGCAAATTTCTGTCCAGTTTATTCAGCAGCACCTCCTTGCCCTCCTCCCAGCTCTGG	31 320
2	31 261	GTTAGCAAATTTCTGTCCAGTTTATTCAGCAGCACCTCCTTGCCCTCCTCCCAGCTCTGG	31 320
1	31 321	TATTGCAGCTTCCTCCTGGCTGCAAACCTTCTCCACAATCTAAATGGAATGTCAGTTTCC	31 380
2	31 321	TATTGCAGCTTCCTCCTGGCTGCAAACCTTCTCCACAATCTAAATGGAATGTCAGTTTCC	31 380
1	31 381	TCCTGTTCTGTCCATCCGCACCCACTATCTTCATGTTGTTGCAGATGAAGCGCGCAAGA	31 440
2	31 381	TCCTGTTCTGTCCATCCGCACCCACTATCTTCATGTTGTTGCAGATGAAGCGCGCAAGA	31 440
1	31 441	CCGTCTGAAGATACCTTCAACCCCGTGTATCCATATGACACGGAAACCGGTCCTCCAAC	31 500
2	31 441	CCGTCTGAAGATACCTTCAACCCCGTGTATCCATATGACACGGAAACCGGTCCTCCAAC	31 500
1	31 501	GTGCCTTTTCTTACTCCTCCCTTTGTATCCCCAATGGGTTTCAAGAGAGTCCCCCTGGG	31 560
2	31 501	GTGCCTTTTCTTACTCCTCCCTTTGTATCCCCAATGGGTTTCAAGAGAGTCCCCCTGGG	31 560
1	31 561	GTACTCTCTTTGCGCCTATCCGAACCTCTAGTTACCTCCAATGGCATGCTTGCGCTCAA	31 620
2	31 561	GTACTCTCTTTGCGCCTATCCGAACCTCTAGTTACCTCCAATGGCATGCTTGCGCTCAA	31 620
1	31 621	ATGGGCAACGGCCTCTCTCTGGACGAGGCCGGCAACCTTACCTCCAAAATGTAACCACT	31 680
2	31 621	ATGGGCAACGGCCTCTCTCTGGACGAGGCCGGCAACCTTACCTCCAAAATGTAACCACT	31 680
1	31 681	GTGAGCCACCTCTCAAAAAACCAAGTCAAACATAAACCTGGAAATATCTGCACCCCTC	31 740
2	31 681	GTGAGCCACCTCTCAAAAAACCAAGTCAAACATAAACCTGGAAATATCTGCACCCCTC	31 740

1	31 741	ACAGTTACCTCAGAAGCCCTAACTGTGGCTGCCGCCGCACCTCTAATGGTCGCGGGCAAC	31 800
2	31 741	ACAGTTACCTCAGAAGCCCTAACTGTGGCTGCCGCCGCACCTCTAATGGTCGCGGGCAAC	31 800
1	31 801	ACACTCACCATGCAATCACAGGCCCGCTAACCGTGCACGACTCCAAACTTAGCATTGCC	31 860
2	31 801	ACACTCACCATGCAATCACAGGCCCGCTAACCGTGCACGACTCCAAACTTAGCATTGCC	31 860
1	31 861	ACCCAAGGACCCCTCACAGTGTGAGAAGGAAAGCTAGCCCTGCAAACATCAGGCCCCCTC	31 920
2	31 861	ACCCAAGGACCCCTCACAGTGTGAGAAGGAAAGCTAGCCCTGCAAACATCAGGCCCCCTC	31 920
1	31 921	ACCACCACCGATAGCAGTACCCTTACTATCACTGCCTCACCCCTCTAACTACTGCCACT	31 980
2	31 921	ACCACCACCGATAGCAGTACCCTTACTATCACTGCCTCACCCCTCTAACTACTGCCACT	31 980
1	31 981	GGTAGCTTGGGCATTGACTTGAAAGAGCCATTTATACACAAAATGGAAAAGTAGGACTA	32 040
2	31 981	GGTAGCTTGGGCATTGACTTGAAAGAGCCATTTATACACAAAATGGAAAAGTAGGACTA	32 040
1	32 041	AAGTACGGGGCTCCTTTGCATGTAACAGACGACCTAAACACTTTGACCGTAGCAACTGGT	32 100
2	32 041	AAGTACGGGGCTCCTTTGCATGTAACAGACGACCTAAACACTTTGACCGTAGCAACTGGT	32 100
1	32 101	CCAGGTGTGACTATTAATAATACTTCCTTGCAAACCTAAAGTTACTGGAGCCTTGGGTTTT	32 160
2	32 101	CCAGGTGTGACTATTAATAATACTTCCTTGCAAACCTAAAGTTACTGGAGCCTTGGGTTTT	32 160
1	32 161	GATTCACAAGGCAATATGCAACTTAATGTAGCAGGAGGACTAAGGATTGATTCTCAAAC	32 220
2	32 161	GATTCACAAGGCAATATGCAACTTAATGTAGCAGGAGGACTAAGGATTGATTCTCAAAC	32 220
1	32 221	AGACGCCTTATACTTGATGTTAGTTATCCGTTTGATGCTCAAACCAACTAAATCTAAGA	32 280
2	32 221	AGACGCCTTATACTTGATGTTAGTTATCCGTTTGATGCTCAAACCAACTAAATCTAAGA	32 280
1	32 281	CTAGGACAGGGCCCTCTTTTTATAAACTCAGCCACAACCTTGGATATTAACATAACAAA	32 340
2	32 281	CTAGGACAGGGCCCTCTTTTTATAAACTCAGCCACAACCTTGGATATTAACATAACAAA	32 340

1	32 941	TTTGTCTTCCTAATGCGGGAACACATAAATGAAAATTATATTTTTTGGTCAATGCTACTAC	33 000
2	32 941	TTTGTCTTCCTAATGCGGGAACACATAAATGAAAATTATATTTTTTGGTCAATGCTACTAC	33 000
1	33 001	AAAGCAAGCGATGGTGCCCTTTTTCCGTTGGAAGTTACTGTTATGCTTAATAAACGCCTG	33 060
2	33 001	AAAGCAAGCGATGGTGCCCTTTTTCCGTTGGAAGTTACTGTTATGCTTAATAAACGCCTG	33 060
1	33 061	CCAGATAGTCGCACATCCTATGTTATGACTTTTTTATGGTCCTTGAATGCTGGTCTAGCT	33 120
2	33 061	CCAGATAGTCGCACATCCTATGTTATGACTTTTTTATGGTCCTTGAATGCTGGTCTAGCT	33 120
1	33 121	CCAGAACTACTCAGGCAACCCTCATAACCTCCCCATTTACCTTTTCCTATATTAGAGAA	33 180
2	33 121	CCAGAACTACTCAGGCAACCCTCATAACCTCCCCATTTACCTTTTCCTATATTAGAGAA	33 180
1	33 181	GATGACTAATAAACTCTAAAGAATCGTTTGTGTTATGTTTCAACGTGTTTATTTTTCAAT	33 240
2	33 181	GATGACTAATAAACTCTAAAGAATCGTTTGTGTTATGTTTCAACGTGTTTATTTTTCAAT	33 240
1	33 241	TGCAGAAAATTTCAAGTCATTTTTTCATTCAGTAGTATAGCCCCACCACCACATAGCTTAT	33 300
2	33 241	TGCAGAAAATTTCAAGTCATTTTTTCATTCAGTAGTATAGCCCCACCACCACATAGCTTAT	33 300
1	33 301	ACAGATCACCGTACCTTAATCAAACCTCACAGAACCCTAGTATTCAACCTGCCACCTCCCT	33 360
2	33 301	ACAGATCACCGTACCTTAATCAAACCTCACAGAACCCTAGTATTCAACCTGCCACCTCCCT	33 360
1	33 361	CCCAACACACAGAGTACACAGTCCTTTCTCCCCGGCTGGCCTTAAAAAGCATCATATCAT	33 420
2	33 361	CCCAACACACAGAGTACACAGTCCTTTCTCCCCGGCTGGCCTTAAAAAGCATCATATCAT	33 420
1	33 421	GGGTAACAGACATATTCTTAGGTGTTATATTCCACACGGTTTCTGTGCGAGCCAAACGCT	33 480
2	33 421	GGGTAACAGACATATTCTTAGGTGTTATATTCCACACGGTTTCTGTGCGAGCCAAACGCT	33 480
1	33 481	CATCAGTGATATTAATAAACTCCCCGGGCAGCTCACTTAAGTTCATGTGCTGTCCAGCT	33 540
2	33 481	CATCAGTGATATTAATAAACTCCCCGGGCAGCTCACTTAAGTTCATGTGCTGTCCAGCT	33 540

1	33 541	GCTGAGCCACAGGCTGCTGTCCAACCTTGCGGTTGCTTAACGGGCGGGCGAAGGAGAAGTCC	33 600
2	33 541	GCTGAGCCACAGGCTGCTGTCCAACCTTGCGGTTGCTTAACGGGCGGGCGAAGGAGAAGTCC	33 600
1	33 601	ACGCCTACATGGGGGTAGAGTCATAATCGTGCATCAGGATAGGGCGGTGGTGCTGCAGCA	33 660
2	33 601	ACGCCTACATGGGGGTAGAGTCATAATCGTGCATCAGGATAGGGCGGTGGTGCTGCAGCA	33 660
1	33 661	GCGCGCGAATAAACTGCTGCCGCCGCCGCTCCGTCCTGCAGGAATACAACATGGCAGTGG	33 720
2	33 661	GCGCGCGAATAAACTGCTGCCGCCGCCGCTCCGTCCTGCAGGAATACAACATGGCAGTGG	33 720
1	33 721	TCTCCTCAGCGATGATTCGCACCGCCCGCAGCATAAGGCGCCTTGTCTCCGGGCACAGC	33 780
2	33 721	TCTCCTCAGCGATGATTCGCACCGCCCGCAGCATAAGGCGCCTTGTCTCCGGGCACAGC	33 780
1	33 781	AGCGCACCCCTGATCTCACTTAAATCAGCACAGTAACTGCAGCACAGCACCAATATTGT	33 840
2	33 781	AGCGCACCCCTGATCTCACTTAAATCAGCACAGTAACTGCAGCACAGCACCAATATTGT	33 840
1	33 841	TCAAAATCCCACAGTGCAAGGCGCTGTATCCAAAGCTCATGGCGGGGACCACAGAACCCA	33 900
2	33 841	TCAAAATCCCACAGTGCAAGGCGCTGTATCCAAAGCTCATGGCGGGGACCACAGAACCCA	33 900
1	33 901	CGTGCCATCATAACCACAAGCGCAGGTAGATTAAGTGGCGACCCCTCATAAACACGCTGG	33 960
2	33 901	CGTGCCATCATAACCACAAGCGCAGGTAGATTAAGTGGCGACCCCTCATAAACACGCTGG	33 960
1	33 961	ACATAAACATTACCTCTTTTGGCATGTTGTAATTCACCACCTCCCGGTACCATATAAACC	34 020
2	33 961	ACATAAACATTACCTCTTTTGGCATGTTGTAATTCACCACCTCCCGGTACCATATAAACC	34 020
1	34 021	TCTGATTAAACATGGCGCCATCCACCACCATCCTAAACCAGCTGGCCAAAACCTGCCCGC	34 080
2	34 021	TCTGATTAAACATGGCGCCATCCACCACCATCCTAAACCAGCTGGCCAAAACCTGCCCGC	34 080
1	34 081	CGGCTATACACTGCAGGGAACCGGGACTGGAACAATGACAGTGGAGAGCCCAGGACTCGT	34 140
2	34 081	CGGCTATACACTGCAGGGAACCGGGACTGGAACAATGACAGTGGAGAGCCCAGGACTCGT	34 140

1	34 141	AACCATGGATCATCATGCTCGTCATGATATCAATGTTGGCACAACACAGGCACACGTGCA	34 200
2	34 141	AACCATGGATCATCATGCTCGTCATGATATCAATGTTGGCACAACACAGGCACACGTGCA	34 200
1	34 201	TACACTTCCTCAGGATTACAAGCTCCTCCCGCGTTAGAACCATATCCCAGGGAACAACCC	34 260
2	34 201	TACACTTCCTCAGGATTACAAGCTCCTCCCGCGTTAGAACCATATCCCAGGGAACAACCC	34 260
1	34 261	ATTCCTGAATCAGCGTAAATCCACACTGCAGGGAAGACCTCGCACGTAACCTCACGTTGT	34 320
2	34 261	ATTCCTGAATCAGCGTAAATCCACACTGCAGGGAAGACCTCGCACGTAACCTCACGTTGT	34 320
1	34 321	GCATTGTCAAAGTGTTACATTTCGGGCAGCAGCGGATGATCCTCCAGTATGGTAGCGCGGG	34 380
2	34 321	GCATTGTCAAAGTGTTACATTTCGGGCAGCAGCGGATGATCCTCCAGTATGGTAGCGCGGG	34 380
1	34 381	TTTCTGTCTCAAAGGAGGTAGACGATCCCTACTGTACGGAGTGCGCCGAGACAACCGAG	34 440
2	34 381	TTTCTGTCTCAAAGGAGGTAGACGATCCCTACTGTACGGAGTGCGCCGAGACAACCGAG	34 440
1	34 441	ATCGTGTTGGTCGTAGTGTTCATGCCAAATGGAACGCCGGACGTAGTCATATTTCTGAAG	34 500
2	34 441	ATCGTGTTGGTCGTAGTGTTCATGCCAAATGGAACGCCGGACGTAGTCATATTTCTGAAG	34 500
1	34 501	CAAAACCAGGTGCGGGCGTGACAAACAGATCTGCGTCTCCGGTCTCGCCGCTTAGATCGC	34 560
2	34 501	CAAAACCAGGTGCGGGCGTGACAAACAGATCTGCGTCTCCGGTCTCGCCGCTTAGATCGC	34 560
1	34 561	TCTGTGTAGTAGTTGTAGTATATCCACTCTCTCAAAGCATCCAGGCGCCCCCTGGCTTCG	34 620
2	34 561	TCTGTGTAGTAGTTGTAGTATATCCACTCTCTCAAAGCATCCAGGCGCCCCCTGGCTTCG	34 620
1	34 621	GGTTCTATGTAAACTCCTTCATGCGCCGCTGCCCTGATAACATCCACCACCGCAGAATAA	34 680
2	34 621	GGTTCTATGTAAACTCCTTCATGCGCCGCTGCCCTGATAACATCCACCACCGCAGAATAA	34 680
1	34 681	GCCACACCCAGCCAACCTACACATTCGTTCTGCGAGTCACACACGGGAGGAGCGGGAAGA	34 740
2	34 681	GCCACACCCAGCCAACCTACACATTCGTTCTGCGAGTCACACACGGGAGGAGCGGGAAGA	34 740

1	34 741	GCTGGAAGAACCATGTTTTTTTTTTTTTATTCCAAAAGATTATCCAAAACCTCAAATGAAG 	34 800
2	34 741	GCTGGAAGAACCATGTTTTTTTTTTTTTATTCCAAAAGATTATCCAAAACCTCAAATGAAG	34 800
1	34 801	ATCTATTAAGTGAACGCGCTCCCCTCCGGTGGCGTGGTCAAACCTCTACAGCCAAAGAACA 	34 860
2	34 801	ATCTATTAAGTGAACGCGCTCCCCTCCGGTGGCGTGGTCAAACCTCTACAGCCAAAGAACA	34 860
1	34 861	GATAATGGCATTGTGTAAGATGTTGCACAATGGCTTCCAAAAGGCAAACGGCCCTCACGTC 	34 920
2	34 861	GATAATGGCATTGTGTAAGATGTTGCACAATGGCTTCCAAAAGGCAAACGGCCCTCACGTC	34 920
1	34 921	CAAGTGGACGTAAAGGCTAAACCCTTCAGGGTGAATCTCCTCTATAAACATTCCAGCACC 	34 980
2	34 921	CAAGTGGACGTAAAGGCTAAACCCTTCAGGGTGAATCTCCTCTATAAACATTCCAGCACC	34 980
1	34 981	TTCAACCATGCCCAAATAATTCTCATCTCGCCACCTTCTCAATATATCTCTAAGCAAATC 	35 040
2	34 981	TTCAACCATGCCCAAATAATTCTCATCTCGCCACCTTCTCAATATATCTCTAAGCAAATC	35 040
1	35 041	CCGAATATTAAGTCCGGCCATTGTAAAAATCTGCTCCAGAGCGCCCTCCACCTTCAGCCT 	35 100
2	35 041	CCGAATATTAAGTCCGGCCATTGTAAAAATCTGCTCCAGAGCGCCCTCCACCTTCAGCCT	35 100
1	35 101	CAAGCAGCGAATCATGATTGCAAAAATTCAGGTTCTCACAGACCTGTATAAGATTCAA 	35 160
2	35 101	CAAGCAGCGAATCATGATTGCAAAAATTCAGGTTCTCACAGACCTGTATAAGATTCAA	35 160
1	35 161	AGCGGAACATTAACAAAAATACCGCGATCCCGTAGGTCCCTTCGCAGGGCCAGCTGAACA 	35 220
2	35 161	AGCGGAACATTAACAAAAATACCGCGATCCCGTAGGTCCCTTCGCAGGGCCAGCTGAACA	35 220
1	35 221	TAATCGTGCAGGTCTGCACGGACCAGCGCGGCCACTTCCCCGCCAGGAACCATGACAAAA 	35 280
2	35 221	TAATCGTGCAGGTCTGCACGGACCAGCGCGGCCACTTCCCCGCCAGGAACCATGACAAAA	35 280
1	35 281	GAACCCACACTGATTATGACACGCATACTCGGAGCTATGCTAACCAGCGTAGCCCCGATG 	35 340
2	35 281	GAACCCACACTGATTATGACACGCATACTCGGAGCTATGCTAACCAGCGTAGCCCCGATG	35 340

1	35 341	TAAGCTTGTTGCATGGGCGGCGATATAAAAATGCAAGGTGCTGCTCAAAAAATCAGGCAAA	35 400
2	35 341	TAAGCTTGTTGCATGGGCGGCGATATAAAAATGCAAGGTGCTGCTCAAAAAATCAGGCAAA	35 400
1	35 401	GCCTCGCGCAAAAAAGAAAGCACATCGTAGTCATGCTCATGCAGATAAAGGCAGGTAAGC	35 460
2	35 401	GCCTCGCGCAAAAAAGAAAGCACATCGTAGTCATGCTCATGCAGATAAAGGCAGGTAAGC	35 460
1	35 461	TCCGGAACCACCACAGAAAAAGACACCATTTTTCTCTCAAACATGTCTGCGGGTTTCTGC	35 520
2	35 461	TCCGGAACCACCACAGAAAAAGACACCATTTTTCTCTCAAACATGTCTGCGGGTTTCTGC	35 520
1	35 521	ATAAACACAAAATAAAATAACAAAAAACATTTAAACATTAGAAGCCTGTCTTACAACAG	35 580
2	35 521	ATAAACACAAAATAAAATAACAAAAAACATTTAAACATTAGAAGCCTGTCTTACAACAG	35 580
1	35 581	GAAAAACAACCCTTATAAGCATAAGACGGACTACGGCCATGCCGGCGTGACCGTAAAAAA	35 640
2	35 581	GAAAAACAACCCTTATAAGCATAAGACGGACTACGGCCATGCCGGCGTGACCGTAAAAAA	35 640
1	35 641	ACTGGTCACCGTGATTAAAAAGCACACCACGACAGCTCCTCGGTCATGTCCGGAGTCATAA	35 700
2	35 641	ACTGGTCACCGTGATTAAAAAGCACACCACGACAGCTCCTCGGTCATGTCCGGAGTCATAA	35 700
1	35 701	TGTAAGACTCGGTAAACACATCAGGTTGATTACATCGGTCAGTGCTAAAAAGCGACCGA	35 760
2	35 701	TGTAAGACTCGGTAAACACATCAGGTTGATTACATCGGTCAGTGCTAAAAAGCGACCGA	35 760
1	35 761	AATAGCCCGGGGAATACATACCCGCAGGCGTAGAGACAACATTACAGCCCCATAGGAG	35 820
2	35 761	AATAGCCCGGGGAATACATACCCGCAGGCGTAGAGACAACATTACAGCCCCATAGGAG	35 820
1	35 821	GTATAACAAAATTAATAGGAGAGAAAAACACATAAACACCTGAAAAACCCTCCTGCCTAG	35 880
2	35 821	GTATAACAAAATTAATAGGAGAGAAAAACACATAAACACCTGAAAAACCCTCCTGCCTAG	35 880
1	35 881	GCAAAATAGCACCTCCCGCTCCAGAACAACATACAGCGCTTCCACAGCGGCAGCCATAA	35 940
2	35 881	GCAAAATAGCACCTCCCGCTCCAGAACAACATACAGCGCTTCCACAGCGGCAGCCATAA	35 940

1	35 941	CAGTCAGCCTTACCAGTAAAAAAGAAAACCTATTAAAAAAACACCACTCGACACGGCACC	36 000
2	35 941	CAGTCAGCCTTACCAGTAAAAAAGAAAACCTATTAAAAAAACACCACTCGACACGGCACC	36 000
1	36 001	AGCTCAATCAGTCACAGTGTAAAAAAGGGCCAAGTGCAGAGCGAGTATATATAGGACTAA	36 060
2	36 001	AGCTCAATCAGTCACAGTGTAAAAAAGGGCCAAGTGCAGAGCGAGTATATATAGGACTAA	36 060
1	36 061	AAAATGACGTAACGGTTAAAGTCCACAAAAAACACCCAGAAAACCGCACGCGAACCTACG	36 120
2	36 061	AAAATGACGTAACGGTTAAAGTCCACAAAAAACACCCAGAAAACCGCACGCGAACCTACG	36 120
1	36 121	CCCAGAAACGAAAGCCAAAAAACCCACAACCTTCCTCAAATCGTCACTTCCGTTTTCCAC	36 180
2	36 121	CCCAGAAACGAAAGCCAAAAAACCCACAACCTTCCTCAAATCGTCACTTCCGTTTTCCAC	36 180
1	36 181	GTTACGTCACTTCCCATTTTAAGAAAACCTACAATTCCCAACACATACAAGTTACTCCGCC	36 240
2	36 181	GTTACGTCACTTCCCATTTTAAGAAAACCTACAATTCCCAACACATACAAGTTACTCCGCC	36 240
1	36 241	CTAAAACCTACGTCACCCGCCCGTTCCACGCCCCGCGCCACGTCACAACTCCACCCC	36 300
2	36 241	CTAAAACCTACGTCACCCGCCCGTTCCACGCCCCGCGCCACGTCACAACTCCACCCC	36 300
1	36 301	CTCATTATCATATTGGCTTCAATCCAAAATAAGGTATATTATTGATGATG	36 350
2	36 301	CTCATTATCATATTGGCTTCAATCCAAAATAAGGTATATTATTGATGATG	36 350

Sequence Logo: 50% GC base composition

Consensus Threshold: >50%

Compare to: the consensus

Bases that match the reference are marked with yellow highlighting.

Created: 22. tammik. 2021

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