macrogen

```
        10        20        30        40        50        60        70        80        90       100       110       120
C  A G  T A C  TT G C G G A C C TA G AAG TC  CCC TT T TTT  ATTTT  AAAAA TTTT T T T  ACAAAA C G GT TT A CAAG C AT AAAA T CT CT GAT AGA CC GGGG G ACTT AT C ATC CAAC CT GTT AGG T GGGG T G
```



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       130       140       150       160       170       180       190       200       210       220       230       240
AAAC GGC AGA TCT GCC AGC GGT CCAC TG GT ACAT C GTC GGC CAGGC CATT GCC ACGC AA GGC CAT GC GCC AGAAC GGT GGC GCC ATG AT GTTTT CCAT GT GCC GGGC GGTGA CCAC TT CGT CGCC G
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       250       260       270       280       290       300       310       320       330       340       350       360       370
GTG AC GGT GGT GA CC GGC GGT GCC TCG TC GAT CTC CTT CT GGCC GAT GCT GGA GGC GT GCA CATAC GTTT CCT GGT CGA CGCC TGCC AGGTT GT CGAT CAT CAG GCGGTA GT CGCAACC GAT GT G
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       380       390       400       410       420       430       440       450       460       470       480       490
GAACA GCCC GCC GCC  G AAAG ACAAC T CAT CACT CACC GCCC ATT CCAGAT GC GG AATCA GC GC CGGGT C GGCC TGCA CCT GGT CACC GGGCCA GACCCA GAT GAAGC CAT AGC GCTC GAC GGCC G
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       500       510       520       530       540       550       560       570       580       590       600       610       620
CAAA GGT CTT GTT GC AG GGG AAGCC ACGC ACCCG TT GGCCC GGCATC GACAC GGT CTT GCC GT C GCAACC CATCACC AGGCC GTGGT AGCC GCACACC AA GTT GCC GTCC TC GACAT AGCCC AAC
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630   640   650   660   670   680   690   700   710   720   730   740
GACAACGGTGCGCCGCGGTGCGGGCAGAAGTCCTCGACGGCGGCTACTTGGTTCTCGCGGGCGCGGTAGAACACGATTTTTTCCCCGCACATCTTCCGGCCCAGGGGTTTGGTGGCGATCTCAT

750   760   770   780   790   800   810   820   830   840   850   860   870
CGGGGGTGCATGCGACGTATCACATATTTTTGGGGTACATGAGAAGCTCTCCGGGTTTTGTTTATATTCATGGCATCCAGACAGGCTCCTGGGAGCGGGCTATTGCAATTACTATTCAGGCCCTG

880   890   900   910   920   930   940   950   960   970   980   990
GACAAAAAAAAAAGGTTGGTCAATGCCTGTTTCTCAATGCATTATCGTTAACAACCAGGAAAAAAAAAAAGGGTTTCCCCCGGACGGACAATTTTTCTAGAAACACAGAGGTTCGGTTAAATCTTGT

1000   1010   1020   1030   1040   1050   1060   1070   1080   1090   1100   1110   1120
TTGTGCCCCGGGGGTTCGGGCGGGCCCTCGCCCGAACCTTATGCCCCAAAAGAAGCGCGTACACAGAGGGAGGCGCTGTCCTGGAAGGAAGGCCCCGCAACTGTGGGCCCCCCCCCAAGAGGAAC

1130   1140   1150   1160   1170   1180   1190   1200   1210   1220   1230   1240   1250
ATTTCTCGTGAAAAAAGGGGGACAAACGTTCCGCCCGAAAACCGCCAACCACCCAGAAGATTTTAAGCCCAAACCCCGGCTATCCTATTTTTCGGCGTTTGTGGGGTCGCGCCGCCCGCCAAGGGAGGAAT