macrogen

```
        10          20          30          40          50          60          70          80          90         100         110         120
G   AAAA TTGAATTT G CAT G  ATGT G GTTACCATT TAGACT T G G GGACCCATAT GCTGCTCATAAATTTTGACCACAATTTAGGCCACATCATAAAATTAGGTTTTTCCCTTTTGAAAAATGGGTGCCCAT
```



```
      130         140         150         160         170         180         190         200         210         220         230         240         250
AGGGTACCCATAT GCACGAAGT GCATT AGAGGGCCCGGAGG AGCCCGCAAAT AAAAATAATCACGAAGTGGAACCGAGAAAAGGCTGGCGCTAATTTTGGCCTATATCACGATAATTTTGGCCAA
```



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      260         270         280         290         300         310         320         330         340         350         360         370
AATT GCCCTTCGGGGCATTCGCACACGC GCGTATAAAAGAT CGCGACTTATATAT GGGTGCCCTTTAGGGCACCCATTATAAT GGGTACCCCTACGGGGTACCCATAT GCACCCCGAATGGGTGCA
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      380         390         400         410         420         430         440         450         460         470         480         490         500
TTAT ATGAGCCGGGAAACGAGCCG AAGGCGAGTGGACGTGCGACCAC GAAAGAAAAATAAATCGCGACCTATAAT GGGTGCCACAGGCCTA TTCTGGTATTATAGT CACCT A GCGGT ACCCCCACCAAAA
```



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      510         520         530         540         550         560         570         580         590         600         610         620         630
AT AAAA AGGGGAAGGGGTGCTGGATTGGAGTTGCTAGTAGGAGTATGAAACCTCTTACATCTATTACTATTTATAT GCATAAAATATAGATGCTTAGATTTTGCTCCGGCTAATCCAGAAATAGACTGGTA
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640   650   660   670   680   690   700   710   720   730   740   750   760
TT C T CT AGA TGG TGT AAATA GGCATG ATACTGTGATCATT ACTGGC CGCTAAAA T A ATGA TGTA TT TTAGGAATT C ATG ATCTGT TGGT TATTT AT GAA GA ATCTTT TG T ATT ACGAATGT ACCTTT CCT
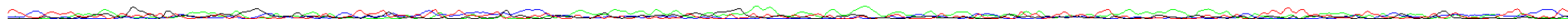
770   780   790   800   810   820   830   840   850   860   870   880   890   900
GTGTT GTCATA GTGCACTC GTTGA TCC GCTCTTTT GATCG AAATGTGGAG TTGATTACCTGCG TT TCAT AT GAAT TT AGTATGGA ATACT AATAT AA TCATGC TTTC GTCC GGT TT GGTTCGCAATTGA AGA AAA

910   920   930   940   950   960   970   980   990   1000   1010   1020
ATTAT TCA AAA T TCT T A TT GCGATT CT GTA TT CA C GT GTTC CTGTT C CCGTTTGCTTGAC ACACTGCGGATTT TGTCGTCATTTTC T GAG ATGT ATAT AT GTTTATTGTAT T ATTT GA CTT A
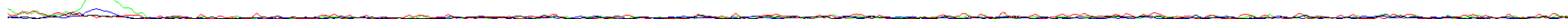
1030   1040   1050   1060   1070   1080   1090   1100   1110   1120   1130   1140
TTTAT T CGAG T GG TGCTAT TTT CTC TTAGTCTA CT T T CTGACC TGTT AGT AACTTGTTGTT TTT TTT T ACCT CCGTT CATA ATCAT CTT ATTT CTTTT TTATAT TT TTT TT AT G TCT AGC