macrogen

```
         10          20          30          40          50          60          70          80          90         100         110         120
G   A A   T  TA G  TA T TT G C G G A C  CTA G A G GTC C C CT T T T T T TA TT T T TAA A A A T T T T TT T T T CA C A A A A C G G T TT A C A A G C A T A A A A T  C T C T G A TA G A C C G G G G A C TTT A T C A T C C A A C C T G T TA G A T C A
```

```
        130         140         150         160         170         180         190         200         210         220         230         240
C G A A T TA C T G A G G G A A G G C T G G C A G A C G G A A A C G C C A G T T G C T T T G T T C C A C G T G G A A C A A G G C C G TA T C A C C C A G A C C C A C G A C C A T C G G G A G T G A A G G C A T G A G C G A A A A T C A A A C G TA C
```

```
        250         260         270         280         290         300         310         320         330         340         350         360         370
G A C T C C T C C A G C A T C A A G G T G C T G A A A G G T T T G G A T G C C G TA C G C A A G C G T C C C G G C A T G TA C A T T G G C G A C A C C G A T G A T G G T A G T G G C C T G C A C C A C A T G G T C T T C G A G G T G G T C G A C A A C T
```

```
        380         390         400         410         420         430         440         450         460         470         480         490
C G A T C G A C G A A G C C C T C G C C G G T C A C T G C G A T G A C A T TA C C G T C A T C A T C C A C C C G G A C G A A T C TA T C A G T G T G C G C G A C A A C G G T C G C G G C A T T C C G G T C G A T G T G C A T A A G G A A G A A G G C G T T
```

```
        500         510         520         530         540         550         560         570         580         590         600         610         620
T C C G C A G C C G A G G T C A T C A T G A C T G T G C T G C A C G C C G G C G G T A A G T T T G A C G A C A A C T C C TA C A A A G T A T C C G G C G G T C T G C A C G G T G TA C G T G T G T C G G T T G T G A A C G C C C T G T C C G A G A A G
```

630 640 650 660 670 680 690 700 710 720 730 740
CTGGTTTTGACTGTTCGCCGTAGCGGCAAGATCTGGGGAACAGACTTACGTTCACGGTGTTCCCCAAGCGCCCATGGCGGTTGTCGGTGACAGTGTAAACCACGGGGTACCCACATCCACTTCA

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

870 880 890 900 910 920 930 940 950 960 970 980 990 1000
AAGCAAAAAAAAAGGGAGTTTTGTTCTAATCCCCGGATTATCGGCGGTCTTTTTGGGGAGGTCGGAAGAAAAAACAGAGAAAAATTTCTTTTAAAATCCCAAGGGGGTGCCCCCTTTTGGGGCTTCCCCG

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

1130 1140 1150 1160 1170 1180 1190 1200 1210 1220 1230
TCCTTTAATCCAAAAAGGCCCCAGAAAGGAAAAAAGATATTGCCGGCGTTTGTCGTTTTCTCGCGCTGGAGGACGGCATTCAGGGAGAAGAAAGGACAGAGGGGGCCGCGGTG