macrogen

```
          10        20        30        40        50        60        70        80        90       100       110       120
CA    TT   TCTA GTA TT GC G GACCC TAG AGGTC CCCT T T T TTAT T TTAAAAAT T T T T T CACAAAAC GGTTTACAA GCATAAAAT CT CT GATA GACC GGGGG ACT TAT CAT CCAA CCT GT TACT GT GT
```

```
         130       140       150       160       170       180       190       200       210       220       230       240
TCGGCG AGGTTC AGCT GATACTA GGTGAC ACG AGCCACCT GGGTGTGT CCCGTGAGC GACAAGGGG AGTTTACT AACC GCAT CGAT GGGCAAAATGC GCGCAGCGCC GCGCAATTGGCT GAGTTA
```

```
         250       260       270       280       290       300       310       320       330       340       350       360       370
CTGCCGCTTCAGCT CAT CAACCC AGACAGTTT CCGGCT GCT GGAAGGTGCCCCC AAAAT ACGCCGCCAGTTT CT GGACT GGGGGGGTGTT CCACGTGG AACCT CGT TTT CT GCCAGCCTGGCAACGC
```

```
         380       390       400       410       420       430       440       450       460       470       480       490
CTTCAG AAGGCGCTGCGGCAGCGG AACT CATGGTTGC GTCATGG TACACTT GACCCAG CTT CGCAAGC CGCCTGGGACCGGG AATTGT GCCTGGCTAG CGCGGAA AT AGATG AATACCGTCGC A
```

```
         500       510       520       530       540       550       560       570       580       590       600       610       620
ACTACAT C AAAGGCCTTGAAGCCCGTCTT CGAGCGAACCCTGAGCGAACTGGTCGAGCTGGAAGGGTTGACC CT GAGCTACTACC GAGGCT GGGACA AGGA C CGGGAACT GCAAT AAGTGCTC
```

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

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

870 880 890 900 910 920 930 940 950 960 970 980
AGGGGGGATTGATAGCAAAAATTTCTTTCTCCGTGGGTCATCCCGGGGGGGGTAGAGCAGTATTTTGGTACACGAAGTGGAAAAAAAAACCCCGGCTGATTTTTTTTCGTGTGGAAACG

990 1000 1010 1020 1030 1040 1050 1060 1070 1080 1090
GGGTCTACCCCAAAAGAGGGGTGTCGGGTGTGGTGGGGTGTGGTTAAAAACCTATTTTTCCCCCCCCCCCGTGAGGGGGGCGAGGGGGTGGTGTTCCCCCCCCACCCCACTGA

1100 1110 1120 1130 1140 1150 1160 1170 1180 1190 1200 1210 1220
CTATTGGAATATGGGCAACCCCGGGGGGGTGGTGGGGTGCCTCGCACACTCTAAGAAAAAAAGTGGGGGGGGGGGACAACAATCACCAACAAACACCCCCCCCCCGGCCGCCGGAGACAGCATTATT