macrogen

```
          10        20        30        40        50        60        70        80        90       100       110       120
A A   T AC  T G C G G ACCC TA G AG GTC CCC TT T TT TAT TTT TAAAAATT TT TTCC ACAAAAC G GT TTTACAA GCAT AAAAT CT CT GATA GACC GGGG ACTTAT CAT CCAACC TGTTACGT GGGTG
```
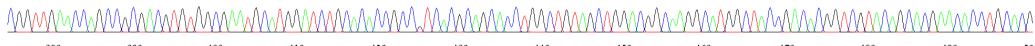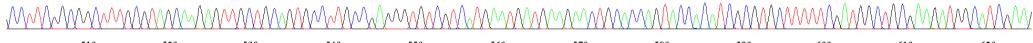


```
         130       140       150       160       170       180       190       200       210       220       230       240
TCAC GCCAAGGGG AAAGCT GTG GATGTT CAAC CAGGT ACT CGT CTCCCACATTG TGGCC GCCGATGAAGC CGAGCAAGC CATC CACCACCA CAAT CTT GCGATGGTT GCGGAAGTT CACCT GGAAG
```



```
250       260       270       280       290       300       310       320       330       340       350       360       370
CGGTTGAACCAGC CGC GACGTGTGGCGAAT GCATGGAT CT GCACACCG CCGT CACGCAGCACCTGGCTGTAGCT GGACGGCAAGGCAT GGCTACCGACACGGT CGTACAGCACGAACACCTGCACG
```



```
         380       390       400       410       420       430       440       450       460       470       480       490       500
CCTTCGGCGGCTTTGCGTAGCAAGAGTTGCTGCAGTGCCTTGCCGAGGGTGTCGTCATGAATGATGAAGAACTGCACCAGTACCACATCGCGTGCTTTTTCGATGGCTGCGAAGATGGCATCGAA
```



```
         510       520       530       540       550       560       570       580       590       600       610       620
GGTGGCTTTGCCATTGATCAGCAGTTTCACCTGGTTATTTGCCAGGCATGGCATTCGACCCAGCTTGGGCATGGCGCGCAAGGCTGTGTACCTTTCCGACCTCTCGCACGGTAAGGGCTTCTTCAA
```

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

CCCAGGGCCGCCAGTTGAAGTTGGCCATGGGCCACGAGCATTTCCTGGTTGGCCTGGCGCCCAGCCTTGATGTACGCCTACAACGAGCGGGCGCCGAAGATCAAGTAGGGGATCAAGGTGAGG



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

TAAGGGATTAATAAAAAAGGGCCACTCCCCACACGTGGCGGCTGGGTCAACCCCTCCGGGGGAAAACTCCGCCACGCGGCGCAAAAACGCGCTGCAGATGGCTTGGGCAGATTTAGTCACCGA



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

AAAAATGGGGGGTGGCGAAACCCCTGATGAATCTGCTAGGCTTACCCCCGTGGTGGTACCCCACGTTAATGGCTGGACGAACAGAACCCCGGATAATGAAATTTTTTCCCGGTTCACCCCTGTT



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

GGGTTGATTTTTTATTTAAAGGGGGCCCCCCGCGGACCCCTTTATAACAGTGGGTCCAATTTTTCCCCCAAAAAAAAAAAAAACAAATTGGTTCCTTCCGGTTTTTTGGCTG



1120    1130    1140    1150    1160    1170    1180    1190    1200    1210    1220

TTGTTTTAGGGGGGGGAGAAAAAAAAAAAAAAAAAAAAAAAATTTCCCCCCCCCACGGGGGGGGGGGGGGCAAAGGGAGGGTCTGTTCCCCCGGTTTTCCAGCGGGCGGGGGAAA