macrogen

```
        10        20        30        40        50        60        70        80        90       100       110       120
T GA C  G G A  CC T A G A GGT CCCC T T  T T T T AT  T TT AAAAA T T T T TT CAC AAAA CGG T TTA CAAG CAT AAAA T CT CTG AAG AT GT GT AT AA GA GAC AGGGG T G T T GG T GG A G AAG CGC T GG TGG A
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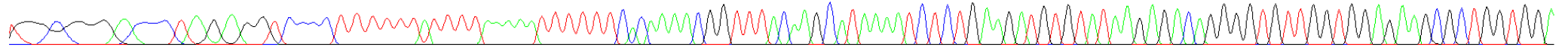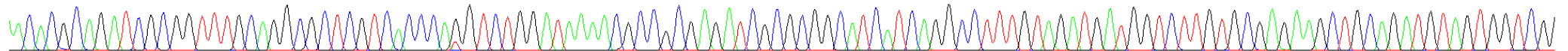


```
       130       140       150       160       170       180       190       200       210       220       230       240
ACACG CA GAT CGC GGTTT GC AGGC GCT CG T C ACCC AGG T CT GG AT AAAA CGC CGC G AG A TCG CGC GGC ATC ATC AGG CCT TT GT AGAT GAT GG T CT TGT GC GAG AAG CTG CA GAT GT AGT GGT CG
```



```
       250       260       270       280       290       300       310       320       330       340       350       360       370
GC GTC GTGGG CGT TGT C CTC CTC CAC GC GTGCC A CGGC ACT GAA CA GCT T GAT GGC GAATT CCT GGT CGCT CAGG CCT TCA CC GCC GG AAA ACA CCT GCT CGAT CTG CGG CAG GCG CTC CAGGG C
```
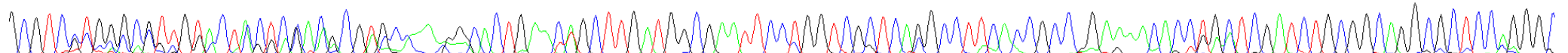


```
       380       390       400       410       420       430       440       450       460       470       480       490
CAG GC GGCCG AGG ACGC TGG TGT CGAT C GGC ACC TTG CG CCAGCC GACC AGT TTCA GGCCA GCGG CG AG GAT CT C GCGGT CCAT GTT GACG C GT ACAA AT CA GCC TTG ACGG GG C CCT GAA GA
```
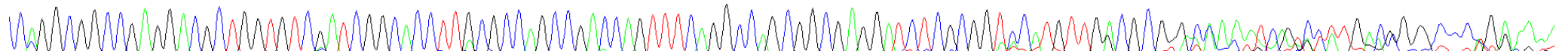


```
       500       510       520       530       540       550       560       570       580       590       600       610       620
AAGAA CGGC GGT CCC GAC GGC CGTT CCTC GAC A T G T AT A G GC GAC AC AGA C AA AAA A G AA ATTAG GT G CTA GCCG GA GG T C GAT GCCATA ATCTCCTGAA A CGGA GG AA AA A ATG AGA G  CTG GTCG G
```
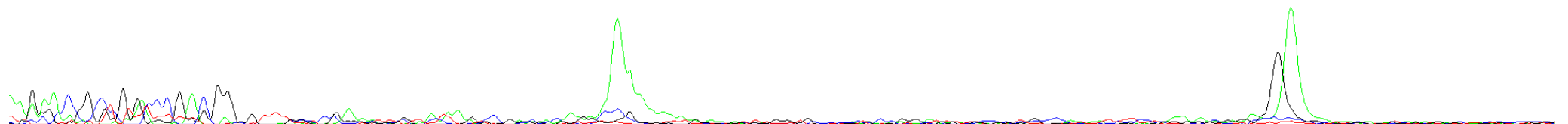
```
      630          640          650          660          670          680          690          700          710          720          730          740
GGACATAGGCGGGGAGGGGTCGCAAATATTCAAAATGGGGCGGGCCGTGACTTTGAGGGGCTGTCGTTAGGGACAGGATGCAGTCGTAAGGGACGCGATGCAGTAAGAGAGAGACGATAAAGTG

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

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

      1010         1020         1030         1040         1050         1060         1070         1080         1090         1100         1110         1120         1130
AGCGGAAAAATCCGGGAAGAGACGGCGAGCAGCGGTATCGTAAAATAAACATAGAGGCCCTGAAAGAGAAATAAATCGGGCAGCAAACTGAGGCTCGAAACACATGCTGTGAGGGTATATATATTGAGGAGGAAA

1140         1150         1160         1170         1180         1190         1200         1210         1220         1230
GGAGTTAATTGATAAGAGCACCCCACTGAAAATATGAGAGATGAGCAAAGACCAGGGCATAAAAGCAAGACAAATGGAGCCGAGCACAGCTCCGGGC
```