macrogen

```
        10          20          30          40          50          60          70          80          90          100         110
AATT GC T AAC C G GTCCCC GC GT T GT A C T T AA CGC TGCA A A TT C TG C T C GGGG T A T ATA G CG A TT TT T TT CG GT AT A TCC T  C C TT TTT CG C C GAT AT A CA GG AG TCT CGCC AAA GG
```

```
        120         130         140         150         160         170         180         190         200         210         220         230
GT T CGT GT AG ACTT T C CTT G GTGT AT CCAA CGG CGT C AGC CGGG C AGG AT AG GT G A AGT AGGCC CACC CG CG AGC GGG TGTT CCT T CT T CACT GT C CCTT A TT CG CACC T GG CGG TG C TCAA
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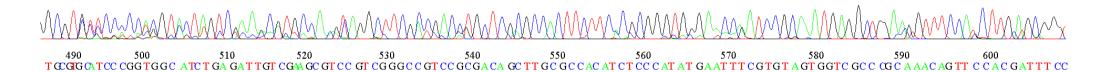
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        240         250         260         270         280         290         300         310         320         330         340         350         360
C GGG AAT CCT GC TC T GCG AG GCT G GCC CGT AGGC C GGC C GCG AT GCAGGT GGC T GC T GAAC CCCC AGCC GG AACT GACCCC AC AAGG CCC T AGC GT TTG CAAT G C ACC AGG T CAT CATT GACC CAG
```

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        370         380         390         400         410         420         430         440         450         460         470         480
G C GT GTT CCCC C AC GT A CT AGT CGAAG C GTGC C CAC GT AGG CTT CG CCG A CC TGCT C GCGC CAC TTC TT CAC GCG G GT GGG A ACC AA TC C GC AAA T GAG GC T GAAG GT TTC CATC TT G CTGC GGG T
```

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        490         500         510         520         530         540         550         560         570         580         590         600
T GC GG CATCC CGG T GGC ATCT GA GA T TGT CGA AGC GT CC GT C G GGC C GT CC GCG ACA GC TT GC GCC AC ATC T CC C AT AT G AAT TT CGT GT A GT GGTC GCC CG C A AAC AG TT C CAC G ATT T CC
```

610   620   630   640   650   660   670   680   690   700   710   720
T AGT CC G ATC A AGA CC TGG AA AAC GG G ACG ATT AT CAT G CC ACA GT CC AGG A CGCG G A AG CAG C T AC CAC A G CC AC C CGA GT CC ACGT G A C GAGG CAGT AC AGAC G TGT A G CCC AT GA
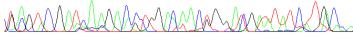
730   740   750   760   770   780   790   800   810   820   830   840
GTGT AC GG GCT ATA GAG AGA T C AC GC G ATG C T ATA AC A AG T GG AAAAT G ATG ACC AT C GC G T C CAAG AG AT CG T GC ATC AAC   G AA AA CAT GT AGA CT GT GA AGA GT CAT GC GACTA

850   860   870   880   890   900   910   920   930   940
CG AC GT GG AT GTT TT GGG A A C AA A A C A AA A A C T GG AA G GAT AGT CCAT C G AA G G T T C G A G T T T TAT C C C GGG T C GG GG G AA AT GAA CG CTC CT GG TG C

950   960   970   980   990   1000   1010   1020   1030   1040   1050
G AG AT GG AAAA CA G A CC TTT T GT TT GGG GGA G GG CA A TT A CCC G GG TTTT T AA T GAA T G GGG C C CG AA A G AAG A TG GGG CACA AC A A GGCC AA T GAA TT TTT TT G G

1060   1070   1080   1090   1100   1110   1120   1130   1140   1150   1160
G CAA CC CC CCCC G GGGG T T AAA G AAA C CGC G CG C GGG A G GA TA AAG A TT TA C AAA A G AA GA G AAAT GG C C AA ACC CT T TT TCC GT GC CAA T T GT GG GGG G ATT C CTTTT TAG CT GC