Exon 1 | Start: 1 | End: 334

```
                             |           |           |           |
agctagacgtccgggcagccCCCCGGCGCAGCGCGGCCGCAGCAGCCTCCGCCCCCCGCA
|           |           |           |           |           |
CGGTGTGAGCGCCCGACGCGGCCGAGGCGGCCGGAGTCCCGAGCTAGCCCCGGCGGCCGC
|           |           |           |           |           |
CGCCGCCCAGACCGGACGACAGGCCACCTCGTCGGCGTCCGCCCGAGTCCCCGCCTCGCC
|           |           |           |           |           |
GCCAACGCCACAACCACCGCGCACGGCCCCCTGACTCCGTCCAGTATTGATCGGGAGAGC
|           |           |           |           |           |
CGGAGCGAGCTCTTCGGGGAGCAGCGATGCGACCCTCCGGGACGGCCGGGGCAGCGCTCC
|           |           |           |           |           |
TGGCGCTGCTGGCTGCGCTCTGCCCGGCGAGTCGGGCTCTGGAGGAAAAGAAAGgtaagg

gcgtgtctcgccgg
```

Exon 2 | Start: 335 | End: 486

```
                             |           |           |           |
atctgtctttttcttccagtTTTGCCAAGGCACGAGTAACAAGCTCACGCAGTTGGGCAC
     |           |           |           |           |           |
TTTTGAAGATCATTTTCTCAGCCTCCAGAGGATGTTCAATAACTGTGAGGTGGTCCTTGG
     |           |           |           |           |
GAATTTGGAAATTACCTATGTGCAGAGGAATTATGATCTTTCCTTCTTAAAGgttggtga

ctttgattttcc
```

Exon 3 | Start: 487 | End: 670

```
                      |            |            |            |
ttatgttttctcttcttagaACCATCCAGGAGGTGGCTGGTTATGTCCTCATTGCCCTCA
        |           |           |           |           |           |
ACACAGTGGAGCGAATTCCTTTGGAAAACCTGCAGATCATCAGAGGAAATATGTACTACG
        |           |           |           |           |           |
AAAATTCCTATGCCTTAGCAGTCTTATCTAACTATGATGCAAATAAAACCGGACTGAAGG
        |           |
AGCTGCCCATGAGAAATTTACAGGgtgagaggctgggatgccaa
```

Exon 4 | Start: 671 | End: 805

```
                      |            |            |            |
cagttccattctcccgcagaAAATCCTGCATGGCGCCGTGCGGTTCAGCAACAACCCTGC
|           |           |           |           |           |
CCTGTGCAACGTGGAGAGCATCCAGTGGCGGGACATAGTCAGCAGTGACTTTCTCAGCAA
|           |           |           |
CATGTCGATGGACTTCCAGAACCACCTGGGCAGCTgtaagtgtcgcatacacact
```

Exon 5 | Start: 806 | End: 874

```
                      |            |            |            |
tattactttacatttcaggGCCAAAAGTGTGATCCAAGCTGTCCCAATGGGAGCTGCTG
        |           |           |
GGGTGCAGGAGAGGAGAACTGCCAGAAACgtaagtcagtgaacagcctc
```

Exon 6 | Start: 875 | End: 993

```
                      |            |            |            |
aacctttgctctttttcagtTGACCAAAATCATCTGTGCCCAGCAGTGCTCCGGGCGCTG
        |           |           |           |           |           |
CCGTGGCAAGTCCCCCAGTGACTGCTGCCACAACCAGTGTGCTGCAGGCTGCACAGGCCC
```

```
         |              |
CCGGGAGAGCGACTGCCTGgtaagatgcccctccagcag
```

Exon 7 | Start: 994 | End: 1135

```
                         |            |             |              |
tgtcctctctcctccataggGTCTGCCGCAAATTCCGAGACGAAGCCACGTGCAAGGACA
         |              |             |             |
CCTGCCCCCCACTCATGCTCTACAACCCCACCACGTACCAGATGGATGTGAACCCCGAGG
         |              |             |            |
GCAAATACAGCTTTGGTGCCACCTGCGTGAAGAAGTGTCCCCgtgagtcctcctctgtgg

gc
```

Exon 8 | Start: 1136 | End: 1252

```
                         |            |             |              |
ttcatgctctcttccccaggGTAATTATGTGGTGACAGATCACGGCTCGTGCGTCCGAGC
         |              |            |             |            |             |
CTGTGGGGCCGACAGCTATGAGATGGAGGAAGACGGCGTCCGCAAGTGTAAGAAGTGCGA
         |              |
AGGGCCTTGCCGCAAAGgtaggaagcccgccggtgtg
```

Exon 9 | Start: 1253 | End: 1379

```
                         |             |             |              |
gtctctcttatctctgcagtTGTGTAACGGAATAGGTATTGGTGAATTTAAAGACTCACT
         |              |             |            |             |             |
CTCCATAAATGCTACGAATATTAAACACTTCAAAAACTGCACCTCCATCAGTGGCGATCT
         |              |
CCACATCCTGCCGGTGGCATTTAGGGGgtgagtcacaggttcagttg
```

3

Exon 10 | Start: 1380 | End: 1453

```
                      |           |           |           |
accctgttgtttgtttcagtTGACTCCTTCACACATACTCCTCCTCTGGATCCACAGGAA
  |         |         |           |
CTGGATATTCTGAAAACCGTAAAGGAAATCACAGgtttgagctgaattatcaca
```

Exon 11 | Start: 1454 | End: 1544

```
                      |           |           |           |
tctttcatctgccttacaggGGTTTTTGCTGATTCAGGCTTGGCCTGAAAACAGGACGGA
        |         |           |           |           |
CCTCCATGCCTTTGAGAACCTAGAAATCATACGCGGCAGGACCAAGCAACAgtaagttga

ccacagccaaa
```

Exon 12 | Start: 1545 | End: 1744

```
                      |           |           |           |
tttcttctctccaatgtagtTGGTCAGTTTTCTCTTGCAGTCGTCAGCCTGAACATAACA
      |           |           |           |           |           |
TCCTTGGGATTACGCTCCCTCAAGGAGATAAGTGATGGAGATGTGATAATTTCAGGAAAC
      |           |           |           |           |           |
AAAAATTTGTGCTATGCAAATACAATAAACTGGAAAAAAACTGTTTGGGACCTCCGGTCAG
      |           |           |           |
AAAACCAAAATTATAAGCAACAGAGGTGAAAACAGCTGCAgtaagtcaccgctttctgtt
```

4

Exon 13 | Start: 1745 | End: 1877

```
                           |            |            |            |
acccactctgtctccgcagaAGGCCACAGGCCAGGTCTGCCATGCCTTGTGCTCCCCCGA
      |            |            |            |            |            |
GGGCTGCTGGGGCCCGGAGCCCAGGGACTGCGTCTCTTGCCGGAATGTCAGCCGAGGCAG
      |            |            |
GGAATGCGTGGACAAGTGCAACCTTCTGGAGGGgtaggaggttatttctttaa
```

Exon 14 | Start: 1878 | End: 1968

```
                           |            |            |            |
ttcctcttcctcctctcagtTGAGCCAAGGGAGTTTGTGGAGAACTCTGAGTGCATACAG
      |            |            |            |            |
TGCCACCCAGAGTGCCTGCCTCAGGCCATGAACATCACCTGCACAGGACGGgtaagagcc

ccttgctgcta
```

Exon 15 | Start: 1969 | End: 2126

```
                           |            |            |            |
tttctccaccttggtgcaggGGACCAGACAACTGTATCCAGTGTGCCCACTACATTGACG
      |            |            |            |            |
GCCCCCACTGCGTCAAGACCTGCCCGGCAGGAGTCATGGGAGAAAACAACACCCTGGTCT
      |            |            |            |            |            |
GGAAGTACGCAGACGCCGGCCATGTGTGCCACCTGTGCCATCCAAACTGCACCTACGGgt

gagtggaaagtgaaggag
```

Exon 16 | Start: 2127 | End: 2165

5

```
                         |           |           |           |
tctctttcacttcctacagaATGCACTGGGCCAGGTCTTGAAGGCTGTCCAACGAATGGg

taagtgttcacagctctgt
```

Exon 17 | Start: 2166 | End: 2307

```
                         |           |           |           |
ttcctccacctcattccaggGCCTAAGATCCCGTCCATCGCCACTGGGATGGTGGGGGCC
       |           |           |           |           |
CTCCTCTTGCTGCTGGTGGTGGCCCTGGGGATCGGCCTCTTCATGCGAAGGCGCCACATC
       |           |           |           |
GTTCGGAAGCGCACGCTGCGGAGGCTGCTGCAGGAGAGGGAGgtgagtgccagtcctggg

tg
```

Exon 18 | Start: 2308 | End: 2430

```
                         |           |           |           |
gtgttcttgtccccccccagcCTTGTGGAGCCTCTTACACCCAGTGGAGAAGCTCCCAACC
       |           |           |           |           |
AAGCTCTCTTGAGGATCTTGAAGGAAACTGAATTCAAAAAGATCAAAGTGCTGGGCTCCG
       |           |
GTGCGTTCGGCACGGTGTATAAGgtaaggtccctggcacaggc
```

Exon 19 | Start: 2431 | End: 2529

```
                       |           |           |           |
ccttctctctctgtcataggGGACTCTGGATCCCAGAAGGTGAGAAAGTTAAAATTCCCG
```

```
      |           |           |           |           |           |
TCGCTATCAAGGAATTAAGAGAAGCAACATCTCCGAAAGCCAACAAGGAAATCCTCGATg

tgagtttctgctttgctgt
```

Exon 20 | Start: 2530 | End: 2715

```
                  |           |           |           |
tgcctctccctccctccaggGAAGCCTACGTGATGGCCAGCGTGGACAACCCCCACGTGT
  |           |           |           |           |           |
GCCGCCTGCTGGGCATCTGCCTCACCTCCACCGTGCAGCTCATCACGCAGCTCATGCCCT
  |           |           |           |           |           |
TCGGCTGCCTCCTGGACTATGTCCGGGAACACAAAGACAATATTGGCTCCCAGTACCTGC
  |           |           |
TCAACTGGTGTGTGCAGATCGCAAAGgtaatcagggaagggagata
```

Exon 21 | Start: 2716 | End: 2871

```
                  |           |           |           |
agggtcttctctgtttcaggGGCATGAACTACTTGGAGGACCGTCGCTTGGTGCACCGCG
      |           |           |           |           |
ACCTGGCAGCCAGGAACGTACTGGTGAAAACACCGCAGCATGTCAAGATCACAGATTTTG
      |           |           |           |           |
GGCTGGCCAAACTGCTGGGTGCGGAAGAGAAAGAATACCATGCAGAAGGAGGCAAAgtaa

ggaggtggctttaggt
```

Exon 22 | Start: 2872 | End: 2947

```
                  |           |           |           |
catctctcaccatcccaaggGTGCCTATCAAGTGGATGGCATTGGAATCAATTTTACACA
```

```
            |            |            |
GAATCTATACCCACCAGAGTGATGTCTGGAGCTACGgtgagtcataatcctgatgc
```

Exon 23 | Start: 2948 | End: 3094

```
                    |            |            |            |
tcttgcttcatcctctcaggGGGTGACCGTTTGGGAGTTGATGACCTTTGGATCCAAGCC
        |            |            |            |
ATATGACGGAATCCCTGCCAGCGAGATCTCCTCCATCCTGGAGAAAGGAGAACGCCTCCC
        |            |            |            |
TCAGCCACCCATATGTACCATCGATGTCTACATGATCATGGTCAAGTgtgagtgactggt

gggtctg
```

Exon 24 | Start: 3095 | End: 3192

```
                    |            |            |            |
tttctcattccttccccaggGCTGGATGATAGACGCAGATAGTCGCCCAAAGTTCCGTGA
        |            |            |            |            |
GTTGATCATCGAATTCTCCAAAATGGCCCGAGACCCCCAGCGCTACCTTGTCATTCAGgt

acaaattgcagtctgtgc
```

Exon 25 | Start: 3193 | End: 3360

```
                    |            |            |            |
ctcaaaatctctgcaccaggGGGGATGAAAGAATGCATTTGCCAAGTCCTACAGACTCCA
        |            |            |            |            |
ACTTCTACCGTGCCCTGATGGATGAAGAAGACATGGACGACGTGGTGGATGCCGACGAGT
        |            |            |            |            |
ACCTCATCCCACAGCAGGGCTTCTTCAGCAGCCCCTCCACGTCACGGACTCCCCTCCTGA
```

```
GCTCTCTGgtatgaaatctctgtctctc
```


Exon 26 | Start: 3361 | End: 3408


```
                  |           |           |           |
ttctctgtttctttttcagaAGTGCAACCAGCAACAATTCCACCGTGGCTTGCATTGATA
|
GAAATGGGgtatgtatgaacaccttata
```


Exon 27 | Start: 3409 | End: 3517


```
                  |           |           |           |
ccctcatttcctcctgcagcCTGCAAAGCTGTCCCATCAAGGAAGACAGCTTCTTGCAGC
    |           |           |           |           |           |
GATACAGCTCAGACCCCACAGGCGCCTTGACTGAGGACAGCATAGACGACACCTTCCTCC
    |
CAGTGCCTGgtgagtggcttgtctggaaa
```


Exon 28 | Start: 3518 | End: 5600


```
                  |           |           |           |
gatttctttccactttcagaAATACATAAACCAGTCCGTTCCCAAAAGGCCCGCTGGCTC
    |           |           |           |           |           |
TGTGCAGAATCCTGTCTATCACAATCAGCCTCTGAACCCCGCGCCCAGCAGAGACCCACA
    |           |           |           |           |           |
CTACCAGGACCCCCACAGCACTGCAGTGGGCAACCCCGAGTATCTCAACACTGTCCAGCC
    |           |           |           |           |           |
CACCTGTGTCAACAGCACATTCGACAGCCCTGCCCACTGGGCCCAGAAAGGCAGCCACCA
    |           |           |           |           |           |
AATTAGCCTGGACAACCCTGACTACCAGCAGGACTTCTTTCCCAAGGAAGCCAAGCCAAA
```

9

```
      |             |             |             |             |             |
TGGCATCTTTAAGGGCTCCACAGCTGAAAATGCAGAATACCTAAGGGTCGCGCCACAAAG
      |             |             |             |             |             |
CAGTGAATTTATTGGAGCATGACCACGGAGGATAGTATGAGCCCTAAAAATCCAGACTCT
      |             |             |             |             |             |
TTCGATACCCAGGACCAAGCCACAGCAGGTCCTCCATCCCAACAGCCATGCCCGCATTAG
      |             |             |             |             |             |
CTCTTAGACCCACAGACTGGTTTTGCAACGTTTACACCGACTAGCCAGGAAGTACTTCCA
      |             |             |             |             |             |
CCTCGGGCACATTTTGGGAAGTTGCATTCCTTTGTCTTCAAACTGTGAAGCATTTACAGA
      |             |             |             |             |             |
AACGCATCCAGCAAGAATATTGTCCCTTTGAGCAGAAATTTATCTTTCAAAGAGGTATAT
      |             |             |             |             |             |
TTGAAAAAAAAAAAAAAGTATATGTGAGGATTTTTATTGATTGGGGATCTTGGAGTTTTTC
      |             |             |             |             |             |
ATTGTCGCTATTGATTTTTACTTCAATGGGCTCTTCCAACAAGGAAGAAGCTTGCTGGTA
      |             |             |             |             |             |
GCACTTGCTACCCTGAGTTCATCCAGGCCCAACTGTGAGCAAGGAGCACAAGCCACAAGT
      |             |             |             |             |             |
CTTCCAGAGGATGCTTGATTCCAGTGGTTCTGCTTCAAGGCTTCCACTGCAAAACACTAA
      |             |             |             |             |             |
AGATCCAAGAAGGCCTTCATGGCCCCAGCAGGCCGGATCGGTACTGTATCAAGTCATGGC
      |             |             |             |             |             |
AGGTACAGTAGGATAAGCCACTCTGTCCCTTCCTGGGCAAAGAAGAAACGGAGGGGATGG
      |             |             |             |             |             |
AATTCTTCCTTAGACTTACTTTTGTAAAAATGTCCCCACGGTACTTACTCCCCACTGATG
      |             |             |             |             |             |
GACCAGTGGTTTCCAGTCATGAGCGTTAGACTGACTTGTTTGTCTTCCATTCCATTGTTT
      |             |             |             |             |             |
TGAAACTCAGTATGCTGCCCCTGTCTTGCTGTCATGAAATCAGCAAGAGAGGATGACACA
      |             |             |             |             |             |
TCAAATAATAACTCGGATTCCAGCCCACATTGGATTCATCAGCATTTGGACCAATAGCCC
      |             |             |             |             |             |
ACAGCTGAGAATGTGGAATACCTAAGGATAGCACCGCTTTTGTTCTCGCAAAAACGTATC
      |             |             |             |             |             |
TCCTAATTTGAGGCTCAGATGAAATGCATCAGGTCCTTTGGGGCATAGATCAGAAGACTA
      |             |             |             |             |             |
CAAAAATGAAGCTGCTCTGAAATCTCCTTTAGCCATCACCCCAACCCCCCAAAATTAGTT
      |             |             |             |             |             |
TGTGTTACTTATGGAAGATAGTTTTCTCCTTTTACTTCACTTCAAAAGCTTTTTACTCAA
      |             |             |             |             |             |
AGAGTATATGTTCCCTCCAGGTCAGCTGCCCCCAAACCCCCTCCTTACGCTTTGTCACAC
      |             |             |             |             |             |
AAAAAGTGTCTCTGCCTTGAGTCATCTATTCAAGCACTTACAGCTCTGGCCACAACAGGG
      |             |             |             |             |             |
CATTTTACAGGTGCGAATGACAGTAGCATTATGAGTAGTGTGGAATTCAGGTAGTAAATA
```

```
    |           |           |           |           |           |
TGAAACTAGGGTTTGAAATTGATAATGCTTTCACAACATTTGCAGATGTTTTAGAAGGAA
    |           |           |           |           |           |
AAAAGTTCCTTCCTAAAATAATTTCTCTACAATTGGAAGATTGGAAGATTCAGCTAGTTA
    |           |           |           |           |           |
GGAGCCCACCTTTTTTCCTAATCTGTGTGTGCCCTGTAACCTGACTGGTTAACAGCAGTC
    |           |           |           |           |           |
CTTTGTAAACAGTGTTTTAAACTCTCCTAGTCAATATCCACCCCATCCAATTTATCAAGG
    |           |           |           |           |           |
AAGAAATGGTTCAGAAAATATTTTCAGCCTACAGTTATGTTCAGTCACACACACATACAA
    |           |           |           |           |           |
AATGTTCCTTTTGCTTTTAAAGTAATTTTTGACTCCCAGATCAGTCAGAGCCCCTACAGC
    |           |           |           |           |           |
ATTGTTAAGAAAGTATTTGATTTTTGTCTCAATGAAAATAAAACTATATTCATTTCCACT

CTAttatgctctcaaataccccct
```