```
                                                                  10        20        30        40        50        60        70        80
                                                                  ........................................................................
                                                                  CTATGCCATAGCATTTTTATCCATAAGATTAGCGGATCCTACCTGACGCTTTTTATCGCAACTCTCTACTGTTTCTCCATACCC
ZE12-K71379-g0212409-1_g0212409-1-seqf.ab1(1>796)  ---->          CTATGCCATAGCATTTTTATCCATAAGATTAGCGGATCCTACCTGACGCTTTTTATCGCAACTCTCTACTGTTTCTCCATACCC

                                                                      90       100       110       120       130       140       150       160
                                                                  ........................................................................
                                                                  GTTTTTTGGGCTAACAGGAGGAATTAACATGAAAAAGTCTTTAGTCCTCAAAGCCTCTGTAGCCGTTGCTACCCTCGTTCCGAT
ZE12-K71379-g0212409-1_g0212409-1-seqf.ab1(1>796)  ---->          GTTTTTTGGGCTAACAGGAGGAATTAACATGAAAAAGTCTTTAGTCCTCAAAGCCTCTGTAGCCGTTGCTACCCTCGTTCCGAT
G0212409-1.seq(1>1657)                             ---->                                  CATGAAAAAGTCTTTAGTCCTCAAAGCCTCTGTAGCCGTTGCTACCCTCGTTCCGAT

                                                                 170       180       190       200       210       220       230       240       250
                                                                  ........................................................................
                                                                  GCTGTCTTTCGCTGCTGAGGGTGAATTCTCTGACGAATAATCTTTTCTTTTTTCTTTTGTAATAGTGTCTTTTGTGTCCCCCTG
ZE12-K71379-g0212409-1_g0212409-1-seqf.ab1(1>796)  ---->          GCTGTCTTTCGCTGCTGAGGGTGAATTCTCTGACGAATAATCTTTTCTTTTTTCTTTTGTAATAGTGTCTTTTGTGTCCCCCTG
G0212409-1.seq(1>1657)                             ---->          GCTGTCTTTCGCTGCTGAGGGTGAATTCTCTGACGAATAATCTTTTCTTTTTTCTTTTGTAATAGTGTCTTTTGTGTCCCCCTG

                                                                     260       270       280       290       300       310       320       330
                                                                  ........................................................................
                                                                  TTTTGAGGGATAGCAATCCCCCAATTTGAGGGATGTTTTATCCCTCGTTTTAGGGGATTTTCCCTCGTTTTGAGGGATGCACCA
ZE12-K71379-g0212409-1_g0212409-1-seqf.ab1(1>796)  ---->          TTTTGAGGGATAGCAATCCCCCAATTTGAGGGATGTTTTATCCCTCGTTTTAGGGGATTTTCCCTCGTTTTGAGGGATGCACCA
G0212409-1.seq(1>1657)                             ---->          TTTTGAGGGATAGCAATCCCCCAATTTGAGGGATGTTTTATCCCTCGTTTTAGGGGATTTTCCCTCGTTTTGAGGGATGCACCA

                                                                   340       350       360       370       380       390       400       410       420
                                                                  ........................................................................
                                                                  TTCTGAGATGTTTTTATTTGGTCCAAACATGCCGCCTTGCTGCTTGATAATATTCATTCTGACGAGTTCTAACTTGGCTTCATT
ZE12-K71379-g0212409-1_g0212409-1-seqf.ab1(1>796)  ---->          TTCTGAGATGTTTTTATTTGGTCCAAACATGCCGCCTTGCTGCTTGATAATATTCATTCTGACGAGTTCTAACTTGGCTTCATT
G0212409-1.seq(1>1657)                             ---->          TTCTGAGATGTTTTTATTTGGTCCAAACATGCCGCCTTGCTGCTTGATAATATTCATTCTGACGAGTTCTAACTTGGCTTCATT

                                                                     430       440       450       460       470       480       490       500
                                                                  ........................................................................
                                                                  GCACCGTTTGACAGGTAACTTTGTAATCTCGCTAAGTTGAGAATCGGTGATTCTGTCCATTGGTTTATTCCACCCATAGGTTTT
ZE12-K71379-g0212409-1_g0212409-1-seqf.ab1(1>796)  ---->          GCACCGTTTGACAGGTAACTTTGTAATCTCGCTAAGTTGAGAATCGGTGATTCTGTCCATTGGTTTATTCCACCCATAGGTTTT
G0212409-1.seq(1>1657)                             ---->          GCACCGTTTGACAGGTAACTTTGTAATCTCGCTAAGTTGAGAATCGGTGATTCTGTCCATTGGTTTATTCCACCCATAGGTTTT

                                                                     510       520       530       540       550       560       570       580
                                                                  ........................................................................
                                                                  ACGCAGAATGGCAAGCAGCACTTTAAACTGTCGCTTGGTCAGATCTCGCAAAAGCGGCCTTTGACTCCCTGCAAGCCTCAGCGA
ZE12-K71379-g0212409-1_g0212409-1-seqf.ab1(1>796)  ---->          ACGCAGAATGGCAAGCAGCACTTTAAACTGTCGCTTGGTCAGATCTCGCAAAAGCGGCCTTTGACTCCCTGCAAGCCTCAGCGA
G0212409-1.seq(1>1657)                             ---->          ACGCAGAATGGCAAGCAGCACTTTAAACTGTCGCTTGGTCAGATCTCGCAAAAGCGGCCTTTGACTCCCTGCAAGCCTCAGCGA

                                                                 590       600       610       620       630       640       650       660       670
                                                                  ........................................................................
                                                                  CCGAATATATCGGTTATGCGTGGGCGATGGTTGTTGTCATTGTCGGCGCAACTATCGGTATCAAGCTGTTTAAGAAATTCACCT
ZE12-K71379-g0212409-1_g0212409-1-seqf.ab1(1>796)  ---->          CCGAATATATCGGTTATGCGTGGGCGATGGTTGTTGTCATTGTCGGCGCAACTATCGGTATCAAGCTGTTTAAGAAATTCACCT
G0212409-1.seq(1>1657)                             ---->          CCGAATATATCGGTTATGCGTGGGCGATGGTTGTTGTCATTGTCGGCGCAACTATCGGTATCAAGCTGTTTAAGAAATTCACCT
ZE09-K71379-g0212409-1_g0212409-1-seq2.ab1(1>797)  ---->                                 GGTTGTTGTCATTGTCGGCGCAACTATCGGTATCAAGCTGTTTAAGAAatTCACCT

                                                                     680       690       700       710       720       730       740       750
                                                                  ........................................................................
                                                                  CGAAAGCAAGCTAACTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAACCCTGGCGTTACCCAACTTAATCGCCTTGCAGCAC
ZE12-K71379-g0212409-1_g0212409-1-seqf.ab1(1>796)  ---->          CGAAAGCAAGCTAACTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAACCCTGGCGTTACCCAACTTAATCGCCTTGCAGCAC
G0212409-1.seq(1>1657)                             ---->          CGAAAGCAAGCTAACTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAACCCTGGCGTTACCCAACTTAATCGCCTTGCAGCAC
ZE09-K71379-g0212409-1_g0212409-1-seq2.ab1(1>797)  ---->          CGAAAGCAAGCTAACTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAACCCTGGCGTTACCCAACTTAATCGCCTTGCAGCAC

                                                                   760       770       780       790       800       810       820       830       840
                                                                  ........................................................................
                                                                  ATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAAT
ZE12-K71379-g0212409-1_g0212409-1-seqf.ab1(1>796)  ---->          ATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCCCG
G0212409-1.seq(1>1657)                             ---->          ATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAAT
ZE09-K71379-g0212409-1_g0212409-1-seq2.ab1(1>797)  ---->          ATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAAT

                                                                     850       860       870       880       890       900       910       920
                                                                  ........................................................................
                                                                  GGCGATTCCGTTGCAATGGCTGGCGGTAATATTGTTCTGGATATTACCAGCAAGGCCGATAGTTTGAGTTCTTCTACTCAGGCA
G0212409-1.seq(1>1657)                             ---->          GGCGATTCCGTTGCAATGGCTGGCGGTAATATTGTTCTGGATATTACCAGCAAGGCCGATAGTTTGAGTTCTTCTACTCAGGCA
ZE09-K71379-g0212409-1_g0212409-1-seq2.ab1(1>797)  ---->          GGCGATTCCGTTGCAATGGCTGGCGGTAATATTGTTCTGGATATTACCAGCAAGGCCGATAGTTTGAGTTCTTCTACTCAGGCA

                                                                     930       940       950       960       970       980       990      1000
                                                                  ........................................................................
                                                                  AGTGATGTTATTACTAATCAAAGAAGTATTGCGACAACGGTTAATTTGCGTGATGGACAGACTCTTTTACTCGGTGGCCTCACT
G0212409-1.seq(1>1657)                             ---->          AGTGATGTTATTACTAATCAAAGAAGTATTGCGACAACGGTTAATTTGCGTGATGGACAGACTCTTTTACTCGGTGGCCTCACT
ZE09-K71379-g0212409-1_g0212409-1-seq2.ab1(1>797)  ---->          AGTGATGTTATTACTAATCAAAGAAGTATTGCGACAACGGTTAATTTGCGTGATGGACAGACTCTTTTACTCGGTGGCCTCACT

                                                                    1010      1020      1030      1040      1050      1060      1070      1080      1090
                                                                  ........................................................................
                                                                  GATTATAAAAACACTTCTCAGGATTCTGGCGTACCGTTCCTGTCTAAAATCCCTTTAATCGGCCTCCTGTTTAGCTCCCGCTCT
G0212409-1.seq(1>1657)                             ---->          GATTATAAAAACACTTCTCAGGATTCTGGCGTACCGTTCCTGTCTAAAATCCCTTTAATCGGCCTCCTGTTTAGCTCCCGCTCT
ZE09-K71379-g0212409-1_g0212409-1-seq2.ab1(1>797)  ---->          GATTATAAAAACACTTCTCAGGATTCTGGCGTACCGTTCCTGTCTAAAATCCCTTTAATCGGCCTCCTGTTTAGCTCCCGCTCT
```

```
                                                      1100      1110      1120      1130      1140      1150      1160      1170
                                                GATTCTAACGAGGAAAGCACGTTATACGTGCTCGTCAAAGCAACCATAGTACGCGCCCTGTAGCGGCGCATTAAGCGCGGCGGG

G0212409-1.seq(1>1657)                    →     GATTCTAACGAGGAAAGCACGTTATACGTGCTCGTCAAAGCAACCATAGTACGCGCCCTGTAGCGGCGCATTAAGCGCGGCGGG
ZE09-K71379-g0212409-1_g0212409-1-seq2.ab1(1>797)  →  GATTCTAACGAGGAAAGCACGTTATACGTGCTCGTCAAAGCAACCATAGTACGCGCCCTGTAGCGGCGCATTAAGCGCGGCGGG

                                                      1180      1190      1200      1210      1220      1230      1240      1250      1260
                                                TGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTCGCTTTCTTCCCTTCCTTTCTCGC

G0212409-1.seq(1>1657)                    →     TGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTCGCTTTCTTCCCTTCCTTTCTCGC
ZE09-K71379-g0212409-1_g0212409-1-seq2.ab1(1>797)  →  TGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTCGCTTTCTTCCCTTCCTTTCTCGC
ZE10-K71379-g0212409-1_g0212409-1-seq3.ab1(1>796)  →  CGCCCTAGCGCCCGCTCCTTTCGCTTTCTTCCCTTCCTTTCTCGC

                                                      1270      1280      1290      1300      1310      1320      1330      1340
                                                CACGTTCGCCGGCTTTCCCCGTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACCTCGACCC

G0212409-1.seq(1>1657)                    →     CACGTTCGCCGGCTTTCCCCGTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACCTCGACCC
ZE09-K71379-g0212409-1_g0212409-1-seq2.ab1(1>797)  →  CACGTTCGCCGGCTTTCCCCGTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACCTCGACCC
ZE10-K71379-g0212409-1_g0212409-1-seq3.ab1(1>796)  →  CACgTTcgCCGGCTTTCCCCGTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACCTCGACCC

                                                      1350      1360      1370      1380      1390      1400      1410      1420
                                                CAAAAAACTTGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTCGCCCTTTGACGTTGGAGTCCAC

G0212409-1.seq(1>1657)                    →     CAAAAAACTTGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTCGCCCTTTGACGTTGGAGTCCAC
ZE09-K71379-g0212409-1_g0212409-1-seq2.ab1(1>797)  →  CAAAAAACTTGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTCGCCCTTT
ZE10-K71379-g0212409-1_g0212409-1-seq3.ab1(1>796)  →  CAAAAAACTTGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTCGCCCTTTGACGTTGGAGTCCAC
ZE11-K71379-g0212409-1_sirna-5-seqr.ab1(1>797)  ←  AGACGGTTTTTCGCCCTTTGACGTTGGAGTCCAC

                                                      1430      1440      1450      1460      1470      1480      1490      1500      1510
                                                GTTCTTTAATAGTGGACTCTTGTTCCAAACTGGAACAACACTCAACCCTATCTCGGTCTATTCTTTTGATTTATAAGGGATTTT

G0212409-1.seq(1>1657)                    →     GTTCTTTAATAGTGGACTCTTGTTCCAAACTGGAACAACACTCAACCCTATCTCGGTCTATTCTTTTGATTTATAAGGGATTTT
ZE10-K71379-g0212409-1_g0212409-1-seq3.ab1(1>796)  →  GTTCTTTAATAGTGGACTCTTGTTCCAAACTGGAACAACACTCAACCCTATCTCGGTCTATTCTTTTGATTTATAAGGGATTTT
ZE11-K71379-g0212409-1_sirna-5-seqr.ab1(1>797)  ←  GTTCTTTAATAGTGGACTCTTGTTCCAAACTGGAACAACACTCAACCCTATCTCGGTCTATTCTTTTGATTTATAAGGGATTTT

                                                      1520      1530      1540      1550      1560      1570      1580      1590
                                                GCCGATTTCGGCCTATTGGTTAAAAAATGAGCTGATTTAACAAAAATTTAACGCGAATTTTAACAAAATATTAACGCTTACAAT

G0212409-1.seq(1>1657)                    →     GCCGATTTCGGCCTATTGGTTAAAAAATGAGCTGATTTAACAAAAATTTAACGCGAATTTTAACAAAATATTAACGCTTACAAT
ZE10-K71379-g0212409-1_g0212409-1-seq3.ab1(1>796)  →  GCCGATTTCGGCCTATTGGTTAAAAAATGAGCTGATTTAACAAAAATTTAACGCGAATTTTAACAAAATATTAACGCTTACAAT
ZE11-K71379-g0212409-1_sirna-5-seqr.ab1(1>797)  ←  GCCGATTTCGGCCTATTGGTTAAAAAATGAGCTGATTTAACAAAAATTTAACGCGAATTTTAACAAAATATTAACGCTTACAAT

                                                      1600      1610      1620      1630      1640      1650      1660      1670      1680
                                                TTAAATATTTGCTTATACAATCTTCCTGTTTTTGGGGCTTTTCTGATTATCAACCGGGGTACATATGATTGACATGCTAGTTTT

G0212409-1.seq(1>1657)                    →     TTAAATATTTGCTTATACAATCTTCCTGTTTTTGGGGCTTTTCTGATTATCAACCGGGGTACATATGATTGACATGCTAGTTTT
ZE10-K71379-g0212409-1_g0212409-1-seq3.ab1(1>796)  →  TTAAATATTTGCTTATACAATCTTCCTGTTTTTGGGGCTTTTCTGATTATCAACCGGGGTACATATGATTGACATGCTAGTTTT
ZE11-K71379-g0212409-1_sirna-5-seqr.ab1(1>797)  ←  TTAAATATTTGCTTATACAATCTTCCTGTTTTTGGGGCTTTTCTGATTATCAACCGGGGTACATATGATTGACATGCTAGTTTT

                                                      1690      1700      1710      1720      1730      1740      1750      1760
                                                ACGATTACCGTTCATGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTTCTAAATACATTCAAATATC

G0212409-1.seq(1>1657)                    →     ACGATTACCGTTCATGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTTCTAAATACATTCAAATATC
ZE10-K71379-g0212409-1_g0212409-1-seq3.ab1(1>796)  →  ACGATTACCGTTCATGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTTCTAAATACATTCAAATATC
ZE11-K71379-g0212409-1_sirna-5-seqr.ab1(1>797)  ←  ACGATTACCGTTCATGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTTCTAAATACATTCAAATATC

                                                      1770      1780      1790      1800      1810      1820      1830      1840
                                                TAGACGCTCATGAGACAATAACCCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATTTCCGTGTC

G0212409-1.seq(1>1657)                    →     TAGA
ZE10-K71379-g0212409-1_g0212409-1-seq3.ab1(1>796)  →  TAGACGCTCATGAGACAATAACCCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATTTCCGTGTC
ZE11-K71379-g0212409-1_sirna-5-seqr.ab1(1>797)  ←  TAGACGCTCATGAGACAATAACCCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATTTCCGTGTC

                                                      1850      1860      1870      1880      1890      1900      1910      1920      1930
                                                GCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCTGTTTTTGCTCACCCAGAAACGCTGGTGAAAGTAAAAGATGCTGAAGAT

ZE10-K71379-g0212409-1_g0212409-1-seq3.ab1(1>796)  →  GCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCTGTTTTTGCTCACCCAGAAACGCTGGTGAAAGTAAAAGATGCTGAAGAT
ZE11-K71379-g0212409-1_sirna-5-seqr.ab1(1>797)  ←  GCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCTGTTTTTGCTCACCCAGAAACGCTGGTGAAAGTAAAAGATGCTGAAGAT

                                                      1940      1950      1960      1970      1980      1990      2000      2010
                                                CAGTTGGGTGCACGAGTGGGTTACATCGAACTGGATCTCAACAGCGGTAAGATCCTTGAGAGTTTTCGCCCCGAAGAACGTTTT

ZE10-K71379-g0212409-1_g0212409-1-seq3.ab1(1>796)  →  CAGTTGGGTGCACGAGTGGGTTACATCGAACTGGATCTCAACAGCGGTAAGATCCTTGAGAGTTTTCGCCCCGAAGAAC
ZE11-K71379-g0212409-1_sirna-5-seqr.ab1(1>797)  ←  CAGTTGGGTGCACGAGTGGGTTACATCGAACTGGATCTCAACAGCGGTAAGATCCTTGAGAGTTTTCGCCCCGAAGAACGTTTT

                                                      2020      2030      2040      2050      2060      2070      2080      2090      2100
                                                CCAATGATGAGCACTTTTAAAGTTCTGCTATGTGGCGCGGTATTATCCCGTGTTGACGCCGGGCAAGAGCAACTCGGTCGCCGC

ZE11-K71379-g0212409-1_sirna-5-seqr.ab1(1>797)  ←  CCAATGATGAGCACTTTTAAAGTTCTGCTATGTGGCGCGGTATTATCCCGTGTTGACGCCGGGCAAGAGCAACTCGGTCGCCGC

                                                      2110      2120      2130      2140      2150      2160      2170      2180
                                                ATACACTATTCTCAGAATGACTTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTACGGATGGCATGACAGTAAGAGAATTA

ZE11-K71379-g0212409-1_sirna-5-seqr.ab1(1>797)  ←  ATACACTATTCTCAGAATGACTTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTACGGATGGCATGACAGTAAGAGAATTA
```

```
                                                    2190
                                                    |....|....|
                                                    TGCAGTG
ZE11-K71379-g0212409-1_sirna-5-seqr.ab1(1>797)  <   TGCAGTG
```