Sequence Range: 1 to 3725

```
         10        20        30        40        50        60        70
GTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTTCTAAATACATTCAAATATGTA
CACCGTGAAAAGCCCCTTTACACGCGCCTTGGGGATAAACAAATAAAAAGATTTATGTAAGTTTATACAT

      >BciVI
        |
   >BspHI                            >SspI   >EarI
     |  |                               |     |
     |  80        90       100       110|     |120       130       140
TCCGCTCATGAGACAATAACCCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAA
AGGCGAGTACTCTGTTATTGGGACTATTTACGAAGTTATTATAACTTTTTCCTTCTCATACTCATAAGTT

       150       160       170       180       190       200       210
CATTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCCTTCCTGTTTTTGCTCACCCAGAAACGC
GTAAAGGCACAGCGGGAATAAGGGAAAAAACGCCGTAAAACGGAAGGACAAAAACGAGTGGGTCTTTGCG

                                  >BsiHKAI
                                     |
                                  >BssSI
                                    ||
                               >ApaLI|
                                 |  ||
       220       230       240   |  |250       260       270       280
TGGTGAAAGTAAAAGATGCTGAAGATCAGTTGGGTGCACGAGTGGGTTACATCGAACTGGATCTCAACAG
ACCACTTTCATTTTCTACGACTTCTAGTCAACCCACGTGCTCACCCAATGTAGCTTGACCTAGAGTTGTC

                                 >XmnI                 >DraI
                                   |                     |
                               >AclI             >BsiHKAI|
                                 | |                 |    |
       290       300       310   | | 320       330   |    340       350
CGGTAAGATCCTTGAGAGTTTTCGCCCCGAAGAACGTTTTCCAATGATGAGCACTTTTAAAGTTCTGCTA
GCCATTCTAGGAACTCTCAAAAGCGGGGCTTCTTGCAAAAGGTTACTACTCGTGAAAATTTCAAGACGAT

                        >BcgI
                          |
                      >BsaHI                              >BcgI
                        | |                                 |
       360       370     | 380       390       400       410 |     420
TGTGGCGCGGTATTATCCCGTATTGACGCCGGGCAAGAGCAACTCGGTCGCCGCATACACTATTCTCAGA
ACACCGCGCCATAATAGGGCATAACTGCGGCCCGTTCTCGTTGAGCCAGCGGCGTATGTGATAAGAGTCT

             >ScaI
               |
       430     |  440       450       460       470       480       490
ATGACTTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTACGGATGGCATGACAGTAAGAGAATTATG
TACTGAACCAACTCATGAGTGGTCAGTGTCTTTTCGTAGAATGCCTACCGTACTGTCATTCTCTTAATAC

                                                    >PvuI
                                                      |
       500       510       520       530       540      |550       560
CAGTGCTGCCATAACCATGAGTGATAACACTGCGGCCAACTTACTTCTGACAACGATCGGAGGACCGAAG
GTCACGACGGTATTGGTACTCACTATTGTGACGCCGGTTGAATGAAGACTGTTGCTAGCCTCCTGGCTTC

                                                       >BsaWI
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                                                                  |
       570       580       590       600       610       620       630
GAGCTAACCGCTTTTTTGCACAACATGGGGGATCATGTAACTCGCCTTGATCGTTGGGAACCGGAGCTGA
CTCGATTGGCGAAAAAACGTGTTGTACCCCCTAGTACATTGAGCGGAACTAGCAACCCTTGGCCTCGACT

                                                          >AclI
                                                            |
                                                  >BsrDI |   >FspI
                                                    |    |     |
       640       650       660       670       680 |    |690  |    700
ATGAAGCCATACCAAACGACGAGCGTGACACCACGATGCCTGTAGCAATGGCAACAACGTTGCGCAAACT
TACTTCGGTATGGTTTGCTGCTCGCACTGTGGTGCTACGGACATCGTTACCGTTGTTGCAACGCGTTTGA

                                        >AseI
                                          |
       710       720       730       740|      750       760       770
ATTAACTGGCGAACTACTTACTCTAGCTTCCCGGCAACAATTAATAGACTGGATGGAGGCGGATAAAGTT
TAATTGACCGCTTGATGAATGAGATCGAAGGGCCGTTGTTAATTATCTGACCTACCTCCGCCTATTTCAA

                        >BglI
                          |
       780       790       800       810       820       830       840
GCAGGACCACTTCTGCGCTCGGCCCTTCCGGCTGGCTGGTTTATTGCTGATAAATCTGGAGCCGGTGAGC
CGTCCTGGTGAAGACGCGAGCCGGGAAGGCCGACCGACCAAATAACGACTATTTAGACCTCGGCCACTCG

       >BsaI
         |
    >BpmI|   >BsrDI
      |  |     |
      |850     | 860       870       880       890       900       910
GTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTCCCGTATCGTAGTTATCTACAC
CACCCAGAGCGCCATAGTAACGTCGTGACCCCGGTCTACCATTCGGGAGGGCATAGCATCAATAGATGTG

   >AhdI
     |
     | 920       930       940       950       960       970       980
GACGGGGAGTCAGGCAACTATGGATGAACGAAATAGACAGATCGCTGAGATAGGTGCCTCACTGATTAAG
CTGCCCCTCAGTCCGTTGATACCTACTTGCTTTATCTGTCTAGCGACTCTATCCACGGAGTGACTAATTC

                                                  >DraI              >DraI
                                                    |                  |
       990      1000      1010      1020      1030      1040      1050
CATTGGTAACTGTCAGACCAAGTTTACTCATATATACTTTAGATTGATTTAAAACTTCATTTTTAATTTA
GTAACCATTGACAGTCTGGTTCAAATGAGTATATATGAAATCTAACTAAATTTTGAAGTAAAAATTAAAT

                                 >BspHI
                                   |
      1060      1070      1080   |  1090      1100      1110      1120
AAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAAATCCCTTAACGTGAGTTTTCGTTCCA
TTTCCTAGATCCACTTCTAGGAAAAACTATTAGAGTACTGGTTTTAGGGAATTGCACTCAAAAGCAAGGT

      1130      1140      1150      1160      1170      1180      1190
CTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGC
GACTCGCAGTCTGGGGCATCTTTTCTAGTTTCCTAGAAGAACTCTAGGAAAAAAAGACGCGCATTAGACG

      1200      1210      1220      1230      1240      1250      1260
TGCTTGCAAACAAAAAAACCACCGCTACCAGCGGTGGTTTGTTTGCCGGATCAAGAGCTACCAACTCTTT
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ACGAACGTTTGTTTTTTTGGTGGCGATGGTCGCCACCAAACAAACGGCCTAGTTCTCGATGGTTGAGAAA

      1270      1280      1290      1300      1310      1320      1330
TTCCGAAGGTAACTGGCTTCAGCAGAGCGCAGATACCAAATACTGTCCTTCTAGTGTAGCCGTAGTTAGG
AAGGCTTCCATTGACCGAAGTCGTCTCGCGTCTATGGTTTATGACAGGAAGATCACATCGGCATCAATCC

                                                              >AlwNI
                                                                |
      1340      1350      1360      1370      1380      1390    | 1400
CCACCACTTCAAGAACTCTGTAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCT
GGTGGTGAAGTTCTTGAGACATCGTGGCGGATGTATGGAGCGAGACGATTAGGACAATGGTCACCGACGA

                                                >BsaWI
                                                  |
      1410      1420      1430      1440      1450|     1460      1470
GCCAGTGGCGATAAGTCGTGTCTTACCGGGTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGT
CGGTCACCGCTATTCAGCACAGAATGGCCCAACCTGAGTTCTGCTATCAATGGCCTATTCCGCGTCGCCA

                    >BsiHKAI
                       |
                  >ApaLI|
                    |   |
      1480      1490    |  1500      1510      1520      1530      1540
CGGGCTGAACGGGGGGTTCGTGCACACAGCCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCT
GCCCGACTTGCCCCCCAAGCACGTGTGTCGGGTCGAACCTCGCTTGCTGGATGTGGCTTGACTCTATGGA

                                                    >BsaWI   >BciVI
                                                        |       |
      1550      1560      1570      1580      1590      1600     |1610
ACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGC
TGTCGCACTCGATACTCTTTCGCGGTGCGAAGGGCTTCCCTCTTTCCGCCTGTCCATAGGCCATTCGCCG

                   >BssSI
                     |
      1620      1630|     1640      1650      1660      1670      1680
AGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTCCAGGGGGAAACGCCTGGTATCTTTATAGTCCTGTCG
TCCCAGCCTTGTCCTCTCGCGTGCTCCCTCGAAGGTCCCCCTTTGCGGACCATAGAAATATCAGGACAGC

                   >DrdI
                     |
      1690      1700 |    1710      1720      1730      1740      1750
GGTTTCGCCACCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGGGGGGCGGAGCCTATGGAAAAA
CCAAAGCGGTGGAGACTGAACTCGCAGCTAAAAACACTACGAGCAGTCCCCCCGCCTCGGATACCTTTTT

                                                       >NspI
                                                         |
                                                  >AflIII|
                                                     |   |
                                                   >PciI |
                                                     |   |
      1760      1770      1780      1790      1800   |  1810      1820
CGCCAGCAACGCGGCCTTTTTACGGTTCCTGGCCTTTTGCTGGCCTTTTGCTCACATGTTCTTTCCTGCG
GCGGTCGTTGCGCCGGAAAAATGCCAAGGACCGGAAAACGACCGGAAAACGAGTGTACAAGAAAGGACGC

      1830      1840      1850      1860      1870      1880      1890
TTATCCCCTGATTCTGTGGATAACCGTATTACCGCCTTTGAGTGAGCTGATACCGCTCGCCGCAGCCGAA
AATAGGGGACTAAGACACCTATTGGCATAATGGCGGAAACTCACTCGACTATGGCGAGCGGCGTCGGCTT
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                            >SapI
                              |
                            >EarI
                              |
      1900      1910      1920|     1930      1940      1950      1960
CGACCGAGCGCAGCGAGTCAGTGAGCGAGGAAGCGGAAGAGCGCCCAATACGCAAACCGCCTCTCCCCGC
GCTGGCTCGCGTCGCTCAGTCACTCGCTCCTTCGCCTTCTCGCGGGTTATGCGTTTGGCGGAGAGGGGCG

            >AseI   >PvuII
               |       |
      1970     |1980   |  1990      2000      2010      2020      2030
GCGTTGGCCGATTCATTAATGCAGCTGGCACGACAGGTTTCCCGACTGGAAAGCGGGCAGTGAGCGCAAC
CGCAACCGGCTAAGTAATTACGTCGACCGTGCTGTCCAAAGGGCTGACCTTTCGCCCGTCACTCGCGTTG

  >AseI
    |
    | 2040      2050      2060      2070      2080      2090      2100
GCAATTAATGTGAGTTAGCTCACTCATTAGGCACCCCAGGCTTTACACTTTATGCTTCCGGCTCGTATGT
CGTTAATTACACTCAATCGAGTGAGTAATCCGTGGGGTCCGAAATGTGAAATACGAAGGCCGAGCATACA

                                                          >BssHII
                                                             |
      2110      2120      2130      2140      2150      2160    | 2170
TGTGTGGAATTGTGAGCGGATAACAATTTCACACAGGAAACAGCTATGACCATGATTACGCCAAGCGCGC
ACACACCTTAACACTCGCCTATTGTTAAAGTGTGTCCTTTGTCGATACTGGTACTAATGCGGTTCGCGCG

                                          >XhoI   >HincII
                                             |       |
                                >EcoO109I   >PaeR7I    |
                                       |       |       |
                                 >KpnI | >ApaI |    >AccI
                                    |  |  |    |      ||
                           >Acc65I  |>PspOMI   |   >SalI
                                |   | ||  |    |     |||
      2180      2190      2200 |   |2210 |    2220  ||| 2230      2240
AATTAACCCTCACTAAAGGGAACAAAAGCTGGGTACCGGGCCCCCCCTCGAGGTCGACTAGATGAAGGAG
TTAATTGGGAGTGATTTCCCTTGTTTTCGACCCATGGCCCGGGGGGGAGCTCCAGCTGATCTACTTCCTC
                                                  ___ROSA 26 PRO____>

                                >BsrDI                  >BbsI
                                  |                       |
      2250      2260      2270   |  2280      2290      2300      2310
AGCCTTTCTCTCTGGGCAAGAGCGGTGCAATGGTGTGTAAAGGTAGCTGAGAAGACGAAAAGGGCAAGCA
TCGGAAAGAGAGACCCGTTCTCGCCACGTTACCACACATTTCCATCGACTCTTCTGCTTTTCCCGTTCGT
_____________________________ROSA 26 PROMOTER_____________________________>

                                                        >BseRI    >BstEII
                                                          |         |
      2320      2330      2340      2350      2360      2370      2380
TCTTCCTGCTACCAGGCTGGGGAGGCCCAGGCCCACGACCCCGAGGAGAGGGAACGCAGGGAGACTGAGG
AGAAGGACGATGGTCCGACCCCTCCGGGTCCGGGTGCTGGGGCTCCTCTCCCTTGCGTCCCTCTGACTCC
_____________________________ROSA 26 PROMOTER_____________________________>

              >EcoO109I
                 |
               >PspOMI
```

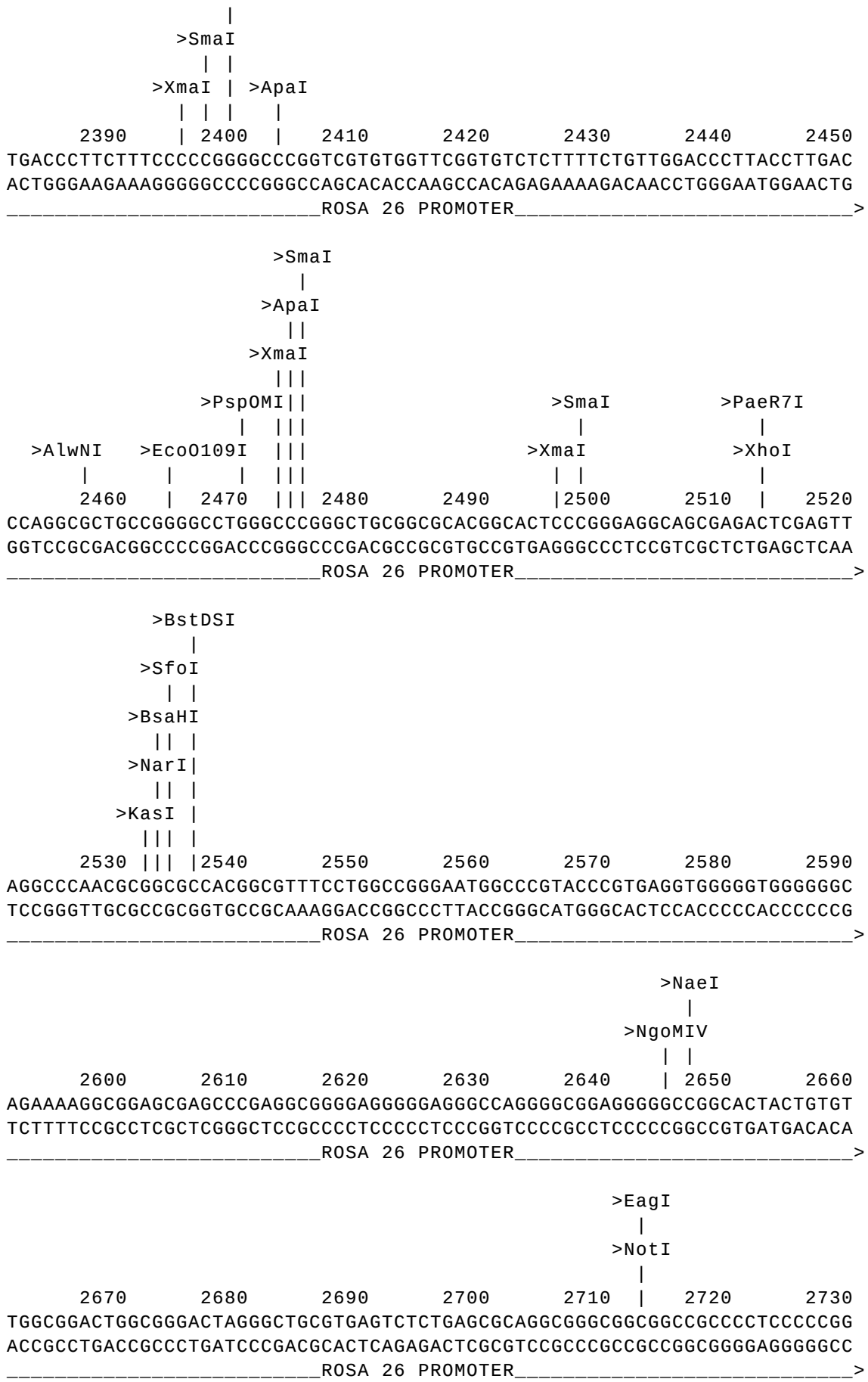
>SmaI
>XmaI
>ApaI
2390 2400 2410 2420 2430 2440 2450
TGACCCTTCTTTCCCCCGGGGCCCGGTCGTGTGGTTCGGTGTCTCTTTTCTGTTGGACCCTTACCTTGAC
ACTGGGAAGAAAGGGGGCCCCGGGCCAGCACACCAAGCCACAGAGAAAAGACAACCTGGGAATGGAACTG
ROSA 26 PROMOTER
>SmaI
>ApaI
>XmaI
>PspOMI
>SmaI
>PaeR7I
>AlwNI
>EcoO109I
>XmaI
>XhoI
2460 2470 2480 2490 2500 2510 2520
CCAGGCGCTGCCGGGGCCTGGGCCCGGGCTGCGGCGCACGGCACTCCCGGGAGGCAGCGAGACTCGAGTT
GGTCCGCGACGGCCCCGGACCCGGGCCCGACGCCGCGTGCCGTGAGGGCCCTCCGTCGCTCTGAGCTCAA
ROSA 26 PROMOTER
>BstDSI
>SfoI
>BsaHI
>NarI
>KasI
2530 2540 2550 2560 2570 2580 2590
AGGCCCAACGCGGCGCCACGGCGTTTCCTGGCCGGGAATGGCCCGTACCCGTGAGGTGGGGGTGGGGGGC
TCCGGGTTGCGCCGCGGTGCCGCAAAGGACCGGCCCTTACCGGGCATGGGCACTCCACCCCCACCCCCCG
ROSA 26 PROMOTER
>NaeI
>NgoMIV
2600 2610 2620 2630 2640 2650 2660
AGAAAAGGCGGAGCGAGCCCGAGGCGGGGAGGGGGAGGGCCAGGGGCGGAGGGGGCCGGCACTACTGTGT
TCTTTTCCGCCTCGCTCGGGCTCCGCCCCTCCCCCTCCCGGTCCCCGCCTCCCCCGGCCGTGATGACACA
ROSA 26 PROMOTER
>EagI
>NotI
2670 2680 2690 2700 2710 2720 2730
TGGCGGACTGGCGGGACTAGGGCTGCGTGAGTCTCTGAGCGCAGGCGGGCGGCGGCCGCCCCTCCCCCGG
ACCGCCTGACCGCCCTGATCCCGACGCACTCAGAGACTCGCGTCCGCCCGCCGCCGGCGGGGAGGGGGCC
ROSA 26 PROMOTER

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      2740      2750      2760      2770      2780      2790      2800
CGGCGGCAGCGGCGGCAGCGGCGGCAGCTCACTCAGCCCGCTGCCCGAGCGGAAACGCCACTGACCGCAC
GCCGCCGTCGCCGCCGTCGCCGCCGTCGAGTGAGTCGGGCGACGGGCTCGCCTTTGCGGTGACTGGCGTG
_____________________________ROSA 26 PROMOTER_____________________________>

                >SfoI
                  |
               >NarI
                 ||
               >BsaHI
                 ||
              >KasI
                |||
             >NaeI|
               ||||
          >NgoMIV||
             | ||||
      2810   | |2820      2830      2840      2850      2860      2870
GGGGATTCCCAGTGCCGGCGCCAGGGGCACGCGGGACACGCCCCCTCCCGCCGCGCCATTGGCCTCTCCG
CCCCTAAGGGTCACGGCCGCGGTCCCCGTGCGCCCTGTGCGGGGGAGGGCGGCGCGGTAACCGGAGAGGC
_____________________________ROSA 26 PROMOTER_____________________________>

                                                          >EarI
                                                            |
      2880      2890      2900      2910      2920      2930|     2940
CCCACCGCCCCACACTTATTGGCCGGTGCGCCGCCAATCAGCGGAGGCTGCCGGGGCCGCCTAAAGAAGA
GGGTGGCGGGGTGTGAATAACCGGCCACGCGGCGGTTAGTCGCCTCCGACGGCCCCGGCGGATTTCTTCT
_____________________________ROSA 26 PROMOTER_____________________________>

          >BseRI                    >EcoNI
            |                         |
      2950  |   2960      2970      2980      2990      3000      3010
GGCTGTGCTTTGGGGCTCCGGCTCCTCAGAGAGCCTCGGCTAGGTAGGGGATCGGGACTCTGGCGGGAGG
CCGACACGAAACCCCGAGGCCGAGGAGTCTCTCGGAGCCGATCCATCCCCTAGCCCTGAGACCGCCCTCC
_____________________________ROSA 26 PROMOTER_____________________________>

                                                 >BstXI
                                                   |
                              >XbaI   >EagI       >SacII   >SacI
                                 |      |          ||       |
                >BamHI   >SpeI  |    >NotI   >BstDSI|    >BsiHKAI
                    |     |     |      |        |  ||       |
      3020      3030|     3040  |   3050      3060 ||   3070|     3080
GCGGCTTGGTGCGTTTGCGGGGATCCACTAGTTCTAGAGCGGCCGCCACCGCGGTGGAGCTCCAATTCGC
CGCCGAACCACGCAAACGCCCCTAGGTGATCAAGATCTCGCCGGCGGTGGCGCCACCTCGAGGTTAAGCG
____ROSA 26 PROMOTER______>

                >BssHII
                   |
      3090      3100|     3110      3120      3130      3140      3150
CCTATAGTGAGTCGTATTACGCGCGCTCACTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAACCCTGG
GGATATCACTCAGCATAATGCGCGCGAGTGACCGGCAGCAAAATGTTGCAGCACTGACCCTTTTGGGACC

                                          >PvuII   >EarI
                                            |        |
      3160      3170      3180      3190    | 3200   |  3210      3220
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CGTTACCCAACTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCCCGC
GCAATGGGTTGAATTAGCGGAACGTCGTGTAGGGGGAAAGCGGTCGACCGCATTATCGCTTCTCCGGGCG

   >PvuI              >FspI     >BglI                       >SspI
     |                  |         |                           |
     |3230      3240    | 3250    | 3260      3270      3280 |    3290
ACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGAAATTGTAAGCGTTAATATTTTGTT
TGGCTAGCGGGAAGGGTTGTCAACGCGTCGGACTTACCGCTTACCTTTAACATTCGCAATTATAAAACAA

>ApoI      >ApoI
  |          |
  |    3300  |   3310      3320      3330      3340      3350      3360
AAAATTCGCGTTAAATTTTTGTTAAATCAGCTCATTTTTTAACCAATAGGCCGAAATCGGCAAAATCCCT
TTTTAAGCGCAATTTAAAAACAATTTAGTCGAGTAAAAAATTGGTTATCCGGCTTTAGCCGTTTTAGGGA

>PsiI
  |
  |    3370      3380      3390      3400      3410      3420      3430
TATAAATCAAAAGAATAGACCGAGATAGGGTTGAGTGTTGTTCCAGTTTGGAACAAGAGTCCACTATTAA
ATATTTAGTTTTCTTATCTGGCTCTATCCCAACTCACAACAAGGTCAAACCTTGTTCTCAGGTGATAATT

                                                          >BsaAI
                                                            |
            >DrdI                                        >DraIII
              |                                             |
      3440    | 3450      3460      3470      3480      3490      3500
AGAACGTGGACTCCAACGTCAAAGGGCGAAAAACCGTCTATCAGGGCGATGGCCCACTACGTGAACCATC
TCTTGCACCTGAGGTTGCAGTTTCCCGCTTTTTGGCAGATAGTCCCGCTACCGGGTGATGCACTTGGTAG

      3510      3520      3530      3540      3550      3560      3570
ACCCTAATCAAGTTTTTTGGGGTCGAGGTGCCGTAAAGCACTAAATCGGAACCCTAAAGGGAGCCCCCGA
TGGGATTAGTTCAAAAAACCCCAGCTCCACGGCATTTCGTGATTTAGCCTTGGGATTTCCCTCGGGGGCT

                   >NaeI
                     |
                >NgoMIV
                   | |
      3580      3590| |   3600      3610      3620      3630      3640
TTTAGAGCTTGACGGGGAAAGCCGGCGAACGTGGCGAGAAAGGAAGGGAAGAAAGCGAAAGGAGCGGGCG
AAATCTCGAACTGCCCCTTTCGGCCGCTTGCACCGCTCTTTCCTTCCCTTCTTTCGCTTTCCTCGCCCGC

      3650      3660      3670      3680      3690      3700      3710
CTAGGGCGCTGGCAAGTGTAGCGGTCACGCTGCGCGTAACCACCACACCCGCCGCGCTTAATGCGCCGCT
GATCCCGCGACCGTTCACATCGCCAGTGCGACGCGCATTGGTGGTGTGGGCGGCGCGAATTACGCGGCGA

      3720
ACAGGGCGCGTCAG-
TGTCCCGCGCAGTC-
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