pTurboYFP-B vector restriction map

The data has not been verified by restriction digestion with each enzyme listed and does not take into account possible methylation sites. Enzymes that recognize unambiguous sequences less than 6 basepairs long are not included – for the more complete enzyme list please refer to the Table of restriction sites.

Unique sites shown in bold blue. The location given specifies the 3’ end of the cut DNA (the base to the left of the cut site). Amino acids coded by vector’s backbone sequence are shown in black.

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            Xho1                                                     SpDon
          SpDon|                   polyA      BsrB1         Psi1      Mfe1   |BsrB1
              ||                       |          |            |         |   |    |
               CTCGAGAAATCATAAAAAATTTATTTGCTTTGTGAGCGGATAACAATTATAATAGATTCAATTGTGAGCGGATAACAATTTCACACAGAATTGATTAAAG
            1  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 100
               GAGCTCTTTAGTATTTTTTAAATAAACGAAACACTCGCCTATTGTTAATATTATCTAAGTTAACACTCGCCTATTGTTAAAGTGTGTCTTAACTAATTTC

                         BseR1                        Nar1                                                  BsrD1
                      SpAcc  |       BamH1           Kas1|                                               Eco57  |
                          |  |           |              ||                                                   |  |
               AGGAGAAATTAACTATGAGAGGATCGGGATCCATGAGCAGCGGCGCCCTGCTGTTCCACGGCAAGATCCCCTACGTGGTGGAGATGGAGGGCAATGTGGA
          101  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 200
               TCCTCTTTAATTGATACTCTCCTAGCCCTAGGTACTCGTCGCCGCGGGACGACAAGGTGCCGTTCTAGGGGATGCACCACCTCTACCTCCCGTTACACCT
TurboYFP     >               M  R  G  S  G  S  M  S  S  G  A  L  L  F  H  G  K  I  P  Y  V  V  E  M  E  G  N  V  D

                                                                     Bsg1
              Msc1               Sac2                        BtgZ1   Bmr1                 SgrA1              BtgZ1
                 |                  |                            |      |                     |                  |
               TGGCCACACCTTCAGCATCCGCGGCAAGGGCTACGGCGATGCCAGCGTGGGCAAGGTGGATGCCCAGTTCATCTGCACCACCGGCGATGTGCCCGTGCCC
          201  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 300
               ACCGGTGTGGAAGTCGTAGGCGCCGTTCCCGATGCCGCTACGGTCGCACCCGTTCCACCTACGGGTCAAGTAGACGTGGTGGCCGCTACACGGGCACGGG
TurboYFP     >  G  H  T  F  S  I  R  G  K  G  Y  G  D  A  S  V  G  K  V  D  A  Q  F  I  C  T  T  G  D  V  P  V  P
```

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                                           Nar1
                      BstE2               Kas1|                                     SpAcc
                     Ale1 |              Bmr1||                                  Xmn1   |      Eco57 Sph1
                        | |                |||                                      |   |          |    |
               TGGAGCACCCTGGTGACCACCCTGACCTACGGCGCCCAGTGCTTCGCCAAGTACGGCCCCGAGCTGAAGGATTTCTACAAGAGCTGCATGCCCGATGGCT
          301  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 400
               ACCTCGTGGGACCACTGGTGGGACTGGATGCCGCGGGTCACGAAGCGGTTCATGCCGGGGCTCGACTTCCTAAAGATGTTCTCGACGTACGGGCTACCGA
TurboYFP     > W  S  T  L  V  T  T  L  T  Y  G  A  Q  C  F  A  K  Y  G  P  E  L  K  D  F  Y  K  S  C  M  P  D  G  Y

                                   Bsg1                 BtgZ1        BstE2                  BsrG1
                                      |                     |            |                      |
               ACGTGCAGGAGCGCACCATCACCTTCGAGGGCGATGGCAATTTCAAGACCCGCGCCGAGGTGACCTTCGAGAATGGCAGCGTGTACAATCGCGTGAAGCT
          401  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 500
               TGCACGTCCTCGCGTGGTAGTGGAAGCTCCCGCTACCGTTAAAGTTCTGGGCGCGGCTCCACTGGAAGCTCTTACCGTCGCACATGTTAGCGCACTTCGA
TurboYFP     >   V  Q  E  R  T  I  T  F  E  G  D  G  N  F  K  T  R  A  E  V  T  F  E  N  G  S  V  Y  N  R  V  K  L

                                            PflM1
                                            BseY1                              Bpm1
                                          Pml1  |                             Bts1|
                                      Msc1   |  |                        SpDon   ||  BsrG1
                                         |   |  |                            |   ||      |
               GAATGGCCAGGGCTTCAAGAAGGATGGCCACGTGCTGGGCAAGAATCTGGAGTTCAATTTCACCCCCCACTGCCTGTACATCTGGGGCGATCAGGCCAAT
          501  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 600
               CTTACCGGTCCCGAAGTTCTTCCTACCGGTGCACGACCCGTTCTTAGACCTCAAGTTAAAGTGGGGGGTGACGGACATGTAGACCCCGCTAGTCCGGTTA
TurboYFP     >  N  G  Q  G  F  K  K  D  G  H  V  L  G  K  N  L  E  F  N  F  T  P  H  C  L  Y  I  W  G  D  Q  A  N

               Sap1                      BssS1
               Ear1                   Eco57  |
                  |                       |  |
               CACGGCCTGAAGAGCGCCTTCAAAATCTGCCACGAGATCACCGGCAGCAAGGGCGATTTCATCGTGGCCGATCACACCCAGATGAATACCCCCATCGGCG
          601  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 700
               GTGCCGGACTTCTCGCGGAAGTTTTAGACGGTGCTCTAGTGGCCGTCGTTCCCGCTAAAGTAGCACCGGCTAGTGTGGGTCTACTTATGGGGGTAGCCGC
TurboYFP     > H  G  L  K  S  A  F  K  I  C  H  E  I  T  G  S  K  G  D  F  I  V  A  D  H  T  Q  M  N  T  P  I  G  G
```

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                                                                                                     Bsa1
                   ApaL1 Pml1                          Pml1   Blp1                                 SpAcc|
                       |    |                             |      |                                     ||
               GCGGCCCCGTGCACGTGCCCGAGTACCACCACATGAGCTACCACGTGAAGCTGAGCAAGGATGTGACCGATCACCGCGATAATATGAGCCTGAAGGAGAC
          701  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 800
               CGCCGGGGCACGTGCACGGGCTCATGGTGGTGTACTCGATGGTGCACTTCGACTCGTTCCTACACTGGCTAGTGGCGCTATTATACTCGGACTTCCTCTG
TurboYFP     >   G  P  V  H  V  P  E  Y  H  H  M  S  Y  H  V  K  L  S  K  D  V  T  D  H  R  D  N  M  S  L  K  E  T

              BssH2  Eco57                               BspE1             Hind3        Blp1
                  |      |                                   |                 |           |
               CGTGCGCGCCGTGGATTGCCGCAAGACCTACGACTTCGACGCCGGTTCCGGAGATACAAGCTGAAAGCTTAATTAGCTGAGCTTGGACTCCTGTTGATAG
          801  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 900
               GCACGCGCGGCACCTAACGGCGTTCTGGATGCTGAAGCTGCGGCCAAGGCCTCTATGTTCGACTTTCGAATTAATCGACTCGAACCTGAGGACAACTATC
TurboYFP     >  V  R  A  V  D  C  R  K  T  Y  D  F  D  A  G  S  G  D  T  S  *

                                                                                 polyA          Nhe1
                                                                                     |             |
               ATCCAGTAATGACCTCAGAACTCCATCTGGATTTGTTCAGAACGCTCGGTTGCCGCCGGGCGTTTTTTATTGGTGAGAATCCAAGCTAGCTTGGCGAGAT
          901  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1000
               TAGGTCATTACTGGAGTCTTGAGGTAGACCTAAACAAGTCTTGCGAGCCAACGGCGGCCCGCAAAAAATAACCACTCTTAGGTTCGATCGAACCGCTCTA

                    Bpu10
                   SpAcc|
                       ||
               TTTCAGGAGCTAAGGAAGCTAAAATGGAGAAAAAAATCACTGGATATACCACCGTTGATATATCCCAATGGCATCGTAAAGAACATTTTGAGGCATTTCA
         1001  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1100
               AAAGTCCTCGATTCCTTCGATTTTACCTCTTTTTTTAGTGACCTATATGGTGGCAACTATATAGGGTTACCGTAGCATTTCTTGTAAAACTCCGTAAAGT

                                                Pvu2                Dra1
                                                   |                   |
               GTCAGTTGCTCAATGTACCTATAACCAGACCGTTCAGCTGGATATTACGGCCTTTTTAAAGACCGTAAAGAAAAATAAGCACAAGTTTTATCCGGCCTTT
         1101  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1200
               CAGTCAACGAGTTACATGGATATTGGTCTGGCAAGTCGACCTATAATGCCGGAAAAATTTCTGGCATTTCTTTTTATTCGTGTTCAAAATAGGCCGGAAA

                SpDon                      BspE1
             polyA  |                    Bsm1  |                  BsrD1                             SpDon
                 |  |                       |  |                      |                                 |
               ATTCACATTCTTGCCCGCCTGATGAATGCTCATCCGGAATTTCGTATGGCAATGAAAGACGGTGAGCTGGTGATATGGGATAGTGTTCACCCTTGTTACA
         1201  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1300
               TAAGTGTAAGAACGGGCGGACTACTTACGAGTAGGCCTTAAAGCATACCGTTACTTTCTGCCACTCGACCACTATACCCTATCACAAGTGGGAACAATGT
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                 BtgZ1    Acl1             SpDon             Bpm1
                     |       |                 |                |
      CCGTTTTCCATGAGCAAACTGAAACGTTTTCATCGCTCTGGAGTGAATACCACGACGATTTCCGGCAGTTTCTACACATATATTCGCAAGATGTGGCGTG
1301  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1400
      GGCAAAAGGTACTCGTTTGACTTTGCAAAAGTAGCGAGACCTCACTTATGGTGCTGCTAAAGGCCGTCAAAGATGTGTATATAAGCGTTCTACACCGCAC

                                         polyA                BsmB1                  SpDon        Dra1
                                             |                    |                      |           |
      TTACGGTGAAAACCTGGCCTATTTCCCTAAAGGGTTTATTGAGAATATGTTTTTCGTCTCAGCCAATCCCTGGGTGAGTTTCACCAGTTTTGATTTAAAC
1401  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1500
      AATGCCACTTTTGGACCGGATAAAGGGATTTCCCAAATAACTCTTATACAAAAAGCAGAGTCGGTTAGGGACCCACTCAAAGTGGTCAAAACTAAATTTG

                                       SpDon
      Msc1                              Nco1       Ssp1
         |                                 |          |
      GTGGCCAATATGGACAACTTCTTCGCCCCCGTTTTCACCATGGGCAAATATTATACGCAAGGCGACAAGGTGCTGATGCCGCTGGCGATTCAGGTTCATC
1501  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1600
      CACCGGTTATACCTGTTGAAGAAGCGGGGGCAAAAGTGGTACCCGTTTATAATATGCGTTCCGCTGTTCCACGACTACGGCGACCGCTAAGTCCAAGTAG

                                       Bsm1             Sca1              BtgZ1
                                          |                |                  |
      ATGCCGTCTGTGATGGCTTCCATGTCGGCAGAATGCTTAATGAATTACAACAGTACTGCGATGAGTGGCAGGGCGGGGCGTAATTTTTTTAAGGCAGTTA
1601  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1700
      TACGGCAGACACTACCGAAGGTACAGCCGTCTTACGAATTACTTAATGTTGTCATGACGCTACTCACCGTCCCGCCCCGCATTAAAAAAATTCCGTCAAT

                                                  polyA     BpuE1                       Bmr1T7Ter
                                                      |         |                          |    |
      TTGGTGCCCTTAAACGCCTGGGGTAATGACTCTCTAGCTTGAGGCATCAAATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTTTCGTTTTATCTGTTG
1701  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1800
      AACCACGGGAATTTGCGGACCCCATTACTGAGAGATCGAACTCCGTAGTTTATTTTGCTTTCCGAGTCAGCTTTCTGACCCGGAAAGCAAAATAGACAAC

                                            Xba1
                          Eci1           BsrB1 |                                                   BsmB1
                             |               | |                                                       |
      TTTGTCGGTGAACGCTCTCCTGAGTAGGACAAATCCGCCGCTCTAGAGCTGCCTCGCGCGTTTCGGTGATGACGGTGAAAACCTCTGACACATGCAGCTC
1801  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1900
      AAACAGCCACTTGCGAGAGGACTCATCCTGTTTAGGCGGCGAGATCTCGACGGAGCGCGCAAAGCCACTACTGCCACTTTTGGAGACTGTGTACGTCGAG
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                                                    Drd1                                          Bmr1
                                                       |                                             |
      CCGGAGACGGTCACAGCTTGTCTGTAAGCGGATGCCGGGAGCAGACAAGCCCGTCAGGGCGCGTCAGCGGGTGTTGGCGGGTGTCGGGGCGCAGCCATGA
1901  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2000
      GGCCTCTGCCAGTGTCGAACAGACATTCGCCTACGGCCCTCGTCTGTTCGGGCAGTCCCGCGCAGTCGCCCACAACCGCCCACAGCCCCGCGTCGGTACT

                                                                                BstAP
   PflF1                     BstZ1                                      ApaL1   Nde1|  SpDon
       |                        |                                          |      ||      |
      CCCAGTCACGTAGCGATAGCGGAGTGTATACTGGCTTAACTATGCGGCATCAGAGCAGATTGTACTGAGAGTGCACCATATGCGGTGTGAAATACCGCAC
2001  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2100
      GGGTCAGTGCATCGCTATCGCCTCACATATGACCGAATTGATACGCCGTAGTCTCGTCTAACATGACTCTCACGTGGTATACGCCACACTTTATGGCGTG

                                         Sap1
                                         Ear1                                        BsrB1
                                            |                                            |
      AGATGCGTAAGGAGAAAATACCGCATCAGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCTGTCGGCTGCGGCGAGCGGTATCAGCTC
2101  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2200
      TCTACGCATTCCTCTTTTATGGCGTAGTCCGCGAGAAGGCGAAGGAGCGAGTGACTGAGCGACGCGAGCCAGACAGCCGACGCCGCTCGCCATAGTCGAG

                                                           SpDon
                                                        BspLU  |
                                                            |  |
      ACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGC
2201  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2300
      TGAGTTTCCGCCATTATGCCAATAGGTGTCTTAGTCCCCTATTGCGTCCTTTCTTGTACACTCGTTTTCCGGTCGTTTTCCGGTCCTTGGCATTTTTCCG

                   Eci1  SpAcc                 BpuE1             Drd1                       SpAcc
                      |      |                     |                |                           |
      CGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGA
2301  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2400
      GCGCAACGACCGCAAAAAGGTATCCGAGGCGGGGGGACTGCTCGTAGTGTTTTTAGCTGCGAGTTCAGTCTCCACCGCTTTGGGCTGTCCTGATATTTCT

                             BssS1                     BciV1 Eci1
                                 |                             |    |
      TACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGG
2401  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2500
      ATGGTCCGCAAAGGGGGACCTTCGAGGGAGCACGCGAGAGGACAAGGCTGGGACGGCGAATGGCCTATGGACAGGCGGAAAGAGGGAAGCCCTTCGCACC
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                                                            BseY1     ApaL1
                                                                |         |
      CGCTTTCTCAATGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGACCGCTG
2501  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2600
      GCGAAAGAGTTACGAGTGCGACATCCATAGAGTCAAGCCACATCCAGCAAGCGAGGTTCGACCCGACACACGTGCTTGGGGGGCAAGTCGGGCTGGCGAC

                                             BpuE1                      AlwN1
                                                 |                          |
      CGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTAT
2601  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2700
      GCGGAATAGGCCATTGATAGCAGAACTCAGGTTGGGCCATTCTGTGCTGAATAGCGGTGACCGTCGTCGGTGACCATTGTCCTAATCGTCTCGCTCCATA

                                                  SpAcc
                                                      |
      GTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCG
2701  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2800
      CATCCGCCACGATGTCTCAAGAACTTCACCACCGGATTGATGCCGATGTGATCTTCCTGTCATAAACCATAGACGCGAGACGACTTCGGTCAATGGAAGC

    Eco57                                                                             BpuE1
        |                                                                                 |
      GAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGATC
2801  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2900
      CTTTTTCTCAACCATCGAGAACTAGGCCGTTTGTTTGGTGGCGACCATCGCCACCAAAAAAACAAACGTTCGTCGTCTAATGCGCGTCTTTTTTTCCTAG

                                                                            BspH1
                                                                                |
      TCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTC
2901  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3000
      AGTTCTTCTAGGAAACTAGAAAAGATGCCCCAGACTGCGAGTCACCTTGCTTTTGAGTGCAATTCCCTAAAACCAGTACTCTAATAGTTTTTCCTAGAAG

                Dra1               Dra1
                   |                  |
      ACCTAGATCCTTTTAAATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCAC
3001  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3100
      TGGATCTAGGAAAATTTAATTTTTACTTCAAAATTTAGTTAGATTTCATATATACTCATTTGAACCAGACTGTCAATGGTTACGAATTAGTCACTCCGTG
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                                                                                          Bmr1
                                                  Ahd1                               SpDon   |
                                                     |                                   |   |
      CTATCTCAGCGATCTGTCTATTTCGTTCATCCATAGCTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGC
3101  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3200
      GATAGAGTCGCTAGACAGATAAAGCAAGTAGGTATCGACGGACTGAGGGGCAGCACATCTATTGATGCTATGCCCTCCCGAATGGTAGACCGGGGTCACG

          BsrD1
           Bsa1     Bpm1                         polyA                Bgl1                   Eci1
              |        |                             |                   |                      |
      TGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTTATCAGCAATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTA
3201  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3300
      ACGTTACTATGGCGCTCTGGGTGCGAGTGGCCGAGGTCTAAATAGTCGTTATTTGGTCGGTCGGCCTTCCCGGCTCGCGTCTTCACCAGGACGTTGAAAT

                                                                            Acl1
                      Ase1                 SpDon                        Fsp1   |    BsrD1
                         |                     |                           |   |        |
      TCCGCCTCCATCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAACGTTGTTGCCATTGCTACAGGCATCG
3301  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3400
      AGGCGGAGGTAGGTCAGATAATTAACAACGGCCCTTCGATCTCATTCATCAAGCGGTCAATTATCAAACGCGTTGCAACAACGGTAACGATGTCCGTAGC

      TGGTGTCACGCTCGTCGTTTGGTATGGCTTCATTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTTAG
3401  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3500
      ACCACAGTGCGAGCAGCAAACCATACCGAAGTAAGTCGAGGCCAAGGGTTGCTAGTTCCGCTCAATGTACTAGGGGGTACAACACGTTTTTTCGCCAATC

                    Pvu1      SpDon               Bts1                Bts1
                       |          |                  |                   |
      CTCCTTCGGTCCTCCGATCGTTGTCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCC
3501  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3600
      GAGGAAGCCAGGAGGCTAGCAACAGTCTTCATTCAACCGGCGTCACAATAGTGAGTACCAATACCGTCGTGACGTATTAAGAGAATGACAGTACGGTAGG

                       SpDon  Sca1                    Bcg1a                             Bcg1b
                           |     |                        |                                 |
      GTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATA
3601  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3700
      CATTCTACGAAAAGACACTGACCACTCATGAGTTGGTTCAGTAAGACTCTTATCACATACGCCGCTGGCTCAACGAGAACGGGCCGCAGTTATGCCCTAT
```

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                                                 Xmn1
                           Dra1                  Acl1 BpuE1
                              |                     |     |
      ATACCGCGCCACATAGCAGAACTTTAAAAGTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTC
3701  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3800
      TATGGCGCGGTGTATCGTCTTGAAATTTTCACGAGTAGTAACCTTTTGCAAGAAGCCCCGCTTTTGAGAGTTCCTAGAATGGCGACAACTCTAGGTCAAG

                    EcoK
                Eco57  |
                ApaL1  |
             BssS1  |  |                      SpDon SpDon
                 |  |  |                          |     |
      GATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAAG
3801  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3900
      CTACATTGGGTGAGCACGTGGGTTGACTAGAAGTCGTAGAAAATGAAAGTGGTCGCAAAGACCCACTCGTTTTTGTCCTTCCGTTTTACGGCGTTTTTTC

                                                                                          BsrB1
                                                                                      BciV1   |
                                             Ear1     Ssp1                          BspH1 |   |
                                                |        |                              | |   |
      GGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCTTCCTTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACATAT
3901  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 4000
      CCTTATTCCCGCTGTGCCTTTACAACTTATGAGTATGAGAAGGAAAAAGTTATAATAACTTCGTAAATAGTCCCAATAACAGAGTACTCGCCTATGTATA

                  polyA                                                 Aat2             BspH1
                      |                                                    |                 |
      TTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTATCATGACATTAAC
4001  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 4100
      AACTTACATAAATCTTTTTATTTGTTTATCCCCAAGGCGCGTGTAAAGGGGCTTTTCACGGTGGACTGCAGATTCTTTGGTAATAATAGTACTGTAATTG

 SpAcc              BssS1   Bbs1
     |                  |      |
      CTATAAAAATAGGCGTATCACGAGGCCCTTTCGTCTTCAC
4101  |||||||||*|||||||||*|||||||||*|||||||||* 4140
      GATATTTTTATCCGCATAGTGCTCCGGGAAAGCAGAAGTG
```

Found:

Aat2 Acl1 **Ahd1** **Ale1** **AlwN1** ApaL1 **Ase1** **BamH1** **Bbs1** **Bcg1a** **Bcg1b** BciV1 **Bgl1** Blp1
Bmr1 Bpm1 **Bpu10** BpuE1 Bsa1 **BseR1** BseY1 Bsg1 Bsm1 BsmB1 BspE1 BspH1 **BspLU** BsrB1
BsrD1 BsrG1 **BssH2** BssS1 **BstAP** BstE2 **BstZ1** BtgZ1 Bts1 Dra1 Drd1 Ear1 Eci1 Eco57
EcoK **Fsp1** **Hind3** Kas1 **Mfe1** Msc1 Nar1 **Nco1** **Nde1** **Nhe1** **PflF1** **PflM1** Pml1 polyA
Psi1 **Pvu1** **Pvu2** **Sac2** Sap1 Sca1 **SgrA1** SpAcc SpDon **Sph1** Ssp1 **T7Ter** **Xba1** **Xho1**
Xmn1

Unique:

Aat2 **Ahd1** **Ale1** **AlwN1** **Ase1** **BamH1** **Bbs1** **Bcg1a** **Bcg1b** **Bgl1** **Bpu10** **BseR1** **BspLU** **BssH2**
BstAP **BstZ1** **EcoK** **Fsp1** **Hind3** **Mfe1** **Nco1** **Nde1** **Nhe1** **PflF1** **PflM1** **Psi1** **Pvu1** **Pvu2**
Sac2 **SgrA1** **Sph1** **T7Ter** **Xba1** **Xho1**

Not found:

Aar1 Acc65 Afe1 Afl2 Age1 Apa1 Asc1 AsiS1 Avr2 Bae1a Bae1b BbvC1 Bcl1 BfrB1
BfuA1 Bgl2 BmgB1 BsaB1 BsaXa BsaXb BsiW1 BspM1 BstB1 BstX1 Bsu36 _Chi Cla1 Dra3
Eag1 EcoN1 EcoR1 EcoRV ScFRT Fse1 FspA1 Hpa1 I_Ceu Kpn1 loxP Mlu1 Nae1 NgoM4
Not1 Nru1 Nsi1 Pac1 Pme1 PshA1 PspOM Pst1 Rsr2 Sac1 Sal1 SanD1 Sbf1 SexA1
Sfi1 Sgf1 Sma1 SnaB1 Spe1 Srf1 Stu1 Swa1 T3RNA T7RNA PISce Xcm1

Excluded by site complexity:

Acc1 Aci1 Afl3 Alu1 Alw1 Apo1 Ava1 Ava2 Ban1 Ban2 Bbv1 BceA1 Bfa1 Bme15
BsaA1 BsaH1 BsaJ1 BsaW1 BseM2 BsiE1 BsiH1 Bsl1 BsmA1 BsmF1 Bsp12 BspCa BspCb Bsr1
BsrF1 BssK1 BstF5 BstN1 BstU1 BstY1 Btg1 Cac8 CviJ1 Dde1 Eae1 EcoO1 Fau1 Fnu4H
Fok1 Hae2 Hae3 Hga1 Hha1 Hinc2 Hinf1 HinP1 Hpa2 Hph1 Hpy99 Hpy1 Hpy3 HpyC3
HpyC4 HpyC5 Mae3 Mbo2 Mnl1 Mse1 Msl1 MspA1 Mwo1 Nci1 Nla3 Nla4 Nsp1 Ple1
PpuM1 Rsa1 Sau3A Sau96 SfaN1 Sfc1 Sml1 Sty1 Taq1 Tat1 Tfi1 Tse1 Tsp45 Tsp50
TspR1