pTagCFP-keratin 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 base pairs long are not included – for the more complete enzyme list please refer to the Table of restriction sites.

Unique sites are shown in red. The location given specifies the 3' end of the cut DNA (the base to the left of the cut site). TagCFP amino acids are shown in cyan, keratin amino acids are shown in green, linker amino acids are shown in black.

```
          Ase1                                                                  Bgl1
            |                                                                     |
      TAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCG
    1 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 100
      ATCAATAATTATCATTAGTTAATGCCCCAGTAATCAAGTATCGGGTATATACCTCAAGGCGCAATGTATTGAATGCCATTTACCGGGCGGACCGACTGGC

                          Aat2                    SpAcc                         Aat2
                            |                       |                             |
      CCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGT
  101 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 200
      GGGTTGCTGGGGGCGGGTAACTGCAGTTATTACTGCATACAAGGGTATCATTGCGGTTATCCCTGAAAGGTAACTGCAGTTACCCACCTCATAAATGCCA

              Bgl1                  Nde1                        Aat2                  Bgl1  Bmr1
                |                     |                           |                     |     |
      AAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTA
  201 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 300
      TTTGACGGGTGAACCGTCATGTAGTTCACATAGTATACGGTTCATGCGGGGGATAACTGCAGTTACTGCCATTTACCGGGCGGACCGTAATACGGGTCAT

                                  BtgZ1 SnaB1                 Nco1
                                      |     |                   |
      CATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGGA
  301 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 400
      GTACTGGAATACCCTGAAAGGATGAACCGTCATGTAGATGCATAATCAGTAGCGATAATGGTACCACTACGCCAAAACCGTCATGTAGTTACCCGCACCT
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                                                  Aat2                                                  Eci1
                                                    |                                                     |
            TAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTA
        401 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 500
            ATCGCCAAACTGAGTGCCCCTAAAGGTTCAGAGGTGGGGTAACTGCAGTTACCCTCAAACAAAACCGTGGTTTTAGTTGCCCTGAAAGGTTTTACAGCAT

                                                                                                        Nhe1
                                                                                                          |
            ACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTGGTTTAGTGAACCGTCAGATCCGCTAGCACCA
        501 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 600
            TGTTGAGGCGGGGTAACTGCGTTTACCCGCCATCCGCACATGCCACCCTCCAGATATATTCGTCTCGACCAAATCACTTGGCAGTCTAGGCGATCGTGGT
Keratin     >                                                                                                   M

                                                                BseY1
                                                              Nar1  |      Nar1
                 SpDon                        Age1            Kas1|  |     Kas1| Eag1
                     |                          |                ||  |        ||    |
            TGAGCTTCACCACTCGCTCCACCTTCTCCACCAACTACCGGTCCCTGGGCTCTGTCCAGGCGCCCAGCTACGGCGCCCGGCCGGTCAGCAGCGCGGCCAG
        601 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 700
            ACTCGAAGTGGTGAGCGAGGTGGAAGAGGTGGTTGATGGCCAGGGACCCGAGACAGGTCCGCGGGTCGATGCCGCGGGCCGGCCAGTCGTCGCGCCGGTC
Keratin     >  S  F  T  T  R  S  T  F  S  T  N  Y  R  S  L  G  S  V  Q  A  P  S  Y  G  A  R  P  V  S  S  A  A  S

                     BseY1                                _Chi
                     AlwN1                        Eco57BsrB1 |                                   Msc1
                         |                            |    | |                                     |
            CGTCTATGCAGGCGCTGGGGGCTCTGGTTCCCGGATCTCCGTGTCCCGCTCCACCAGCTTCAGGGGCGGCATGGGGTCCGGGGGCCTGGCCACCGGGATA
        701 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 800
            GCAGATACGTCCGCGACCCCCGAGACCAAGGGCCTAGAGGCACAGGGCGAGGTGGTCGAAGTCCCCGCCGTACCCCAGGCCCCCGGACCGGTGGCCCTAT
Keratin     >  V  Y  A  G  A  G  G  S  G  S  R  I  S  V  S  R  S  T  S  F  R  G  G  M  G  S  G  G  L  A  T  G  I

                                                Bsa1                                        SpDon            Bsa1
                                                   |                                           |                |
            GCCGGGGGTCTGGCAGGAATGGGAGGCATCCAGAACGAGAAGGAGACCATGCAAAGCCTGAACGACCGCCTGGCCTCTTACCTGGACAGAGTGAGGAGCC
        801 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 900
            CGGCCCCCAGACCGTCCTTACCCTCCGTAGGTCTTGCTCTTCCTCTGGTACGTTTCGGACTTGCTGGCGGACCGGAGAATGGACCTGTCTCACTCCTCGG
Keratin     > A  G  G  L  A  G  M  G  G  I  Q  N  E  K  E  T  M  Q  S  L  N  D  R  L  A  S  Y  L  D  R  V  R  S  L
```

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                 BseR1         Bpm1                 Bpm1          SanD1  Ahd1     AlwN1                  Bpm1
                     |            |                    |              |     |         |                     |
            TGGAGACCGAGAACCGGAGGCTGGAGAGCAAAATCCGGGAGCACTTGGAGAAGAAGGGACCCCAGGTCAGAGACTGGAGCCATTACTTCAAGATCATCGA
        901 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1000
            ACCTCTGGCTCTTGGCCTCCGACCTCTCGTTTTAGGCCCTCGTGAACCTCTTCTTCCCTGGGGTCCAGTCTCTGACCTCGGTAATGAAGTTCTAGTAGCT
Keratin      >  E  T  E  N  R  R  L  E  S  K  I  R  E  H  L  E  K  K  G  P  Q  V  R  D  W  S  H  Y  F  K  I  I  E

            Bsu36      Bgl2                                     Pst1                              Drd1
                |         |                                       |                                 |
            GGACCTGAGGGCTCAGATCTTCGCAAATACTGTGGACAATGCCCGCATCGTTCTGCAGATTGACAATGCCCGTCTTGCTGCTGATGACTTTAGAGTCAAG
       1001 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1100
            CCTGGACTCCCGAGTCTAGAAGCGTTTATGACACCTGTTACGGGCGTAGCAAGACGTCTAACTGTTACGGGCAGAACGACGACTACTGAAATCTCAGTTC
Keratin      > D  L  R  A  Q  I  F  A  N  T  V  D  N  A  R  I  V  L  Q  I  D  N  A  R  L  A  A  D  D  F  R  V  K

                                  PflM1                                                          Pvu2
                     Msc1       SpAcc |           Nco1                                        Pst1|
                        |           | |              |                                            ||
            TATGAGACAGAGCTGGCCATGCGCCAGTCTGTGGAGAACGACATCCATGGGCTCCGCAAGGTCATTGATGACACCAATATCACACGACTGCAGCTGGAGA
       1101 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1200
            ATACTCTGTCTCGACCGGTACGCGGTCAGACACCTCTTGCTGTAGGTACCCGAGGCGTTCCAGTAACTACTGTGGTTATAGTGTGCTGACGTCGACCTCT
Keratin      > Y  E  T  E  L  A  M  R  Q  S  V  E  N  D  I  H  G  L  R  K  V  I  D  D  T  N  I  T  R  L  Q  L  E  T

                                         Sap1
                                         Ear1
                                        BseR1
        BpuE1           Bpm1            BspH1 |      Ear1        SpDon    Stu1
            |              |                | |         |            |       |
            CAGAGATCGAGGCTCTCAAGGAGGAGCTGCTCTTCATGAAGAAGAACCACGAAGAGGAAGTAAAAGGCCTACAAGCCCAGATTGCCAGCTCTGGGTTGAC
       1201 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1300
            GTCTCTAGCTCCGAGAGTTCCTCCTCGACGAGAAGTACTTCTTCTTGGTGCTTCTCCTTCATTTTCCGGATGTTCGGGTCTAACGGTCGAGACCCAACTG
Keratin      >  E  I  E  A  L  K  E  E  L  L  F  M  K  K  N  H  E  E  E  V  K  G  L  Q  A  Q  I  A  S  S  G  L  T

                                                                  Apa1
                                                BstX1         PspOM   |
                                                   |              |   |
            CGTGGAGGTAGATGCCCCCAAATCTCAGGACCTCGCCAAGATCATGGCAGACATCCGGGCCCAATATGACGAGCTGGCTCGGAAGAACCGAGAGGAGCTA
       1301 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1400
            GCACCTCCATCTACGGGGGTTTAGAGTCCTGGAGCGGTTCTAGTACCGTCTGTAGGCCCGGGTTATACTGCTCGACCGAGCCTTCTTGGCTCTCCTCGAT
Keratin      > V  E  V  D  A  P  K  S  Q  D  L  A  K  I  M  A  D  I  R  A  Q  Y  D  E  L  A  R  K  N  R  E  E  L
```

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                 Sca1                                BseR1                Bpu10
                BseR1      Bsa1                  Ale1  |  SpDon       BbvC1      BsmB1                 BsmB1
                    |         |                     |  |      |           |          |                     |
            GACAAGTACTGGTCTCAGCAGATTGAGGAGAGCACCACAGTGCTCACCACACAGTCTGCTGAGGTTGGAGCTGCTGAGACGACGCTCACAGAGCTGAGAC
      1401  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1500
            CTGTTCATGACCAGAGTCGTCTAACTCCTCTCGTGGTGTCACGAGTGGTGTGTCAGACGACTCCAACCTCGACGACTCTGCTGCGAGTGTCTCGACTCTG
Keratin     > D  K  Y  W  S  Q  Q  I  E  E  S  T  T  V  L  T  T  Q  S  A  E  V  G  A  A  E  T  T  L  T  E  L  R  R

                                                                                                EcoN1
                                                                                             Bsu36  |
                          BsaXb                                                            SpAcc|  |
                Ahd1      PflM1|                          BsaXa                          Eco57 ||  |
                   |          ||                             |                              | ||  |
            GTACAGTCCAGTCCTTGGAGATCGACCTGGACTCCATGAGAAATCTGAAGGCCAGCTTGGAGAACAGCCTGAGGGAGGTGGAGGCCCGCTACGCCCTACA
      1501  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1600
            CATGTCAGGTCAGGAACCTCTAGCTGGACCTGAGGTACTCTTTAGACTTCCGGTCGAACCTCTTGTCGGACTCCCTCCACCTCCGGGCGATGCGGGATGT
Keratin     >   T  V  Q  S  L  E  I  D  L  D  S  M  R  N  L  K  A  S  L  E  N  S  L  R  E  V  E  A  R  Y  A  L  Q

                                                                                   Sma1
                T7Ter    Bsg1  BamH1                                            BpuE1  |
                   |       |      |                                               |  |
            GATGGAGCAGCTCAACGGGATCCTGCTGCACCTTGAGTCAGAGCTGGCACAGACCCGGGCAGAGGGACAGCGCCAGGCCCAGGAGTATGAGGCCCTGCTG
      1601  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1700
            CTACCTCGTCGAGTTGCCCTAGGACGACGTGGAACTCAGTCTCGACCGTGTCTGGGCCCGTCTCCCTGTCGCGGTCCGGGTCCTCATACTCCGGGACGAC
Keratin     >  M  E  Q  L  N  G  I  L  L  H  L  E  S  E  L  A  Q  T  R  A  E  G  Q  R  Q  A  Q  E  Y  E  A  L  L

                                                  Bpm1
                                                    |
            AACATCAAGGTCAAGCTGGAGGCTGAGATCGCCACCTACCGCCGCCTGCTGGAAGATGGCGAGGACTTTAATCTTGGTGATGCCTTGGACAGCAGCAACT
      1701  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1800
            TTGTAGTTCCAGTTCGACCTCCGACTCTAGCGGTGGATGGCGGCGGACGACCTTCTACCGCTCCTGAAATTAGAACCACTACGGAACCTGTCGTCGTTGA
Keratin     > N  I  K  V  K  L  E  A  E  I  A  T  Y  R  R  L  L  E  D  G  E  D  F  N  L  G  D  A  L  D  S  S  N  S

                                                                   Bsa1                                EcoR1
                                                                     |                                   |
            CCATGCAAACCATCCAAAAGACCACCACCCGCCGGATAGTGGATGGCAAAGTGGTGTCTGAGACCAATGACACCAAAGTTCTGAGGCATCGAATTCTGCA
      1801  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1900
            GGTACGTTTGGTAGGTTTTCTGGTGGTGGGCGGCCTATCACCTACCGTTTCACCACAGACTCTGGTTACTGTGGTTTCAAGACTCCGTAGCTTAAGACGT
Keratin     >   M  Q  T  I  Q  K  T  T  T  R  R  I  V  D  G  K  V  V  S  E  T  N  D  T  K  V  L  R  H  R  I  L  Q
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                                BamH1
                               Sma1 |
                              Apa1| |
                        PspOM   || |
                        Sac2|   || |
          Sal1      Kpn1  ||   || |
         Pst1| Acc65   |  ||   || |  Age1            BsrB1                  BseR1
            ||     |   |  ||   || |     |                |                      |
             GTCGACGGTACCGCGGGCCCGGGATCCACCGGTCGCCACCATGAGCGGGGGCGAGGAGCTGTTCGCTGGCATCGTGCCCGTGCTGATCGAGCTGGACGGC
      1901   |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2000
             CAGCTGCCATGGCGCCCGGGCCCTAGGTGGCCAGCGGTGGTACTCGCCCCCGCTCCTCGACAAGCGACCGTAGCACGGGCACGACTAGCTCGACCTGCCG
TagCFP      >  S  T  V  P  R  A  R  D  P  P  V  A  T  M  S  G  G  E  E  L  F  A  G  I  V  P  V  L  I  E  L  D  G

             ApaL1                                                                                  BsaXb
            BmgB1|                                                  BsaXa    Bsg1                 Bpm1  |
                ||                                                     |       |                    |  |
             GACGTGCACGGCCACAAGTTCAGCGTGCGCGGTGAGGGAGAGGGCGACGCCGACTACGGCAAGCTGGAGATCAAGTTCATCTGCACCACCGGCAAGCTGC
      2001   |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2100
             CTGCACGTGCCGGTGTTCAAGTCGCACGCGCCACTCCCTCTCCCGCTGCGGCTGATGCCGTTCGACCTCTAGTTCAAGTAGACGTGGTGGCCGTTCGACG
TagCFP      > D  V  H  G  H  K  F  S  V  R  G  E  G  E  G  D  A  D  Y  G  K  L  E  I  K  F  I  C  T  T  G  K  L  P

                                BstE2
                              Ale1 |                      BstAP                                  Xmn1
                                 | |                        |                                      |
             CCGTGCCCTGGCCCACCCTGGTGACCACCCTCGCCTGGGGCATCCAGTGCTTCGCCCGCTACCCCGAGCACATGAAGATGAACGACTTCTTCAAGAGCGC
      2101   |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2200
             GGCACGGGACCGGGTGGGACCACTGGTGGGAGCGGACCCCGTAGGTCACGAAGCGGGCGATGGGGCTCGTGTACTTCTACTTGCTGAAGAAGTTCTCGCG
TagCFP      >   V  P  W  P  T  L  V  T  T  L  A  W  G  I  Q  C  F  A  R  Y  P  E  H  M  K  M  N  D  F  F  K  S  A

                                                                                                      SpDon
                                                                                   Sac2 SpDon       Ale1 |
                                                                                      |     |          | |
             CATGCCCGAGGGCTACATCCAGGAGCGCACCATCCACTTCCAGGACGACGGCAAGTACAAGACCCGCGGCGAGGTGAAGTTCGAGGGCGACACCCTGGTG
      2201   |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2300
             GTACGGGCTCCCGATGTAGGTCCTCGCGTGGTAGGTGAAGGTCCTGCTGCCGTTCATGTTCTGGGCGCCGCTCCACTTCAAGCTCCCGCTGTGGGACCAC
TagCFP      >  M  P  E  G  Y  I  Q  E  R  T  I  H  F  Q  D  D  G  K  Y  K  T  R  G  E  V  K  F  E  G  D  T  L  V
```

```
                                   Eco57                     PflM1                        BsrG1
                                     |                         |                            |
            AACCGCGTCGAGCTGAAGGGCGAGGGCTTCAAGGAGGACGGCAACATCCTGGGCCACAAGTTGGAGTACAGCGCCATCAGCGACAACGTGTACATCATGC
      2301  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2400
            TTGGCGCAGCTCGACTTCCCGCTCCCGAAGTTCCTCCTGCCGTTGTAGGACCCGGTGTTCAACCTCATGTCGCGGTAGTCGCTGTTGCACATGTAGTACG
TagCFP      > N  R  V  E  L  K  G  E  G  F  K  E  D  G  N  I  L  G  H  K  L  E  Y  S  A  I  S  D  N  V  Y  I  M  P

                        Xcm1         Eci1        Bpm1                        Pvu2            Bsg1       Xcm1
                          |            |           |                           |               |          |
            CCGACAAGGCCAACAACGGCCTGGAGGCGAACTTCAAGATCCGCCACAACATCGAGGGCGGCGGCGTGCAGCTGGCCGACCACTACCAGACCAACGTGCC
      2401  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2500
            GGCTGTTCCGGTTGTTGCCGGACCTCCGCTTGAAGTTCTAGGCGGTGTTGTAGCTCCCGCCGCCGCACGTCGACCGGCTGGTGATGGTCTGGTTGCACGG
TagCFP      >   D  K  A  N  N  G  L  E  A  N  F  K  I  R  H  N  I  E  G  G  G  V  Q  L  A  D  H  Y  Q  T  N  V  P

                                          Eci1                                                  Eco57
                        BtgZ1BsaB1      Bpu10 |                                                  Dra3
                            |    |          | |                                                    |
            CCTGGGCGATGGCCCCGTGCTGATCCCCATCAACCACTACCTGAGCTGCCAGTCCGCCATCAGCAAGGACCGCAACGAAGCCCGCGACCACATGGTGCTC
      2501  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2600
            GGACCCGCTACCGGGGCACGACTAGGGGTAGTTGGTGATGGACTCGACGGTCAGGCGGTAGTCGTTCCTGGCGTTGCTTCGGGCGCTGGTGTACCACGAG
TagCFP      > L  G  D  G  P  V  L  I  P  I  N  H  Y  L  S  C  Q  S  A  I  S  K  D  R  N  E  A  R  D  H  M  V  L

                                                          Not1
                          Bpm1         PflM1              Eag1      Xba1   BsaB1
                            |            |                  |         |       |
            CTGGAGTCCTTCAGCGCCTACTGCCACACCCACGGCATGGACGAGCTGTACCGCTAAAGCGGCCGCGACTCTAGATCATAATCAGCCATACCACATTTGT
      2601  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2700
            GACCTCAGGAAGTCGCGGATGACGGTGTGGGTGCCGTACCTGCTCGACATGGCGATTTCGCCGGCGCTGAGATCTAGTATTAGTCGGTATGGTGTAAACA
TagCFP      > L  E  S  F  S  A  Y  C  H  T  H  G  M  D  E  L  Y  R  *

                                                                  Bsm1
                  SpDon   Dra1                                   Mfe1|        Hpa1       polyA    Psi1
                     |      |                                      ||           |           |       |
            AGAGGTTTTACTTGCTTTAAAAAACCTCCCACACCTCCCCCTGAACCTGAAACATAAAATGAATGCAATTGTTGTTGTTAACTTGTTTATTGCAGCTTAT
      2701  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2800
            TCTCCAAAATGAACGAAATTTTTTGGAGGGTGTGGAGGGGGACTTGGACTTTGTATTTTACTTACGTTAACAACAACAATTGAACAAATAACGTCGAATA
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            polyA                        polyA            Bts1 Bsm1                                Afl2
                |                            |                |    |                                   |
     AATGGTTACAAATAAAGCAATAGCATCACAAATTTCACAAATAAAGCATTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTCATCAATGTATCTT
2801 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2900
     TTACCAATGTTTATTTCGTTATCGTAGTGTTTAAAGTGTTTATTTCGTAAAAAAAGTGACGTAAGATCAACACCAAACAGGTTTGAGTAGTTACATAGAA

                SpDon        Ssp1
                    |           |
     AAGGCGTAAATTGTAAGCGTTAATATTTTGTTAAAATTCGCGTTAAATTTTTGTTAAATCAGCTCATTTTTTAACCAATAGGCCGAAATCGGCAAAATCC
2901 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3000
     TTCCGCATTTAACATTCGCAATTATAAAACAATTTTAAGCGCAATTTAAAAACAATTTAGTCGAGTAAAAAATTGGTTATCCGGCTTTAGCCGTTTTAGG

     Psi1                                                        BsaXb                 Drd1    BsaXa
        |                                                           |                     |        |
     CTTATAAATCAAAAGAATAGACCGAGATAGGGTTGAGTGTTGTTCCAGTTTGGAACAAGAGTCCACTATTAAAGAACGTGGACTCCAACGTCAAAGGGCG
3001 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3100
     GAATATTTAGTTTTCTTATCTGGCTCTATCCCAACTCACAACAAGGTCAAACCTTGTTCTCAGGTGATAATTTCTTGCACCTGAGGTTGCAGTTTCCCGC

                                BtgZ1
                                Dra3|                                                          SpAcc
                                   ||                                                             |
     AAAAACCGTCTATCAGGGCGATGGCCCACTACGTGAACCATCACCCTAATCAAGTTTTTTGGGGTCGAGGTGCCGTAAAGCACTAAATCGGAACCCTAAA
3101 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3200
     TTTTTGGCAGATAGTCCCGCTACCGGGTGATGCACTTGGTAGTGGGATTAGTTCAAAAAACCCCAGCTCCACGGCATTTCGTGATTTAGCCTTGGGATTT

                                   Nae1
                                NgoM4 |                                       BsrB1
                                    | |                                         |
     GGGAGCCCCCGATTTAGAGCTTGACGGGGAAAGCCGGCGAACGTGGCGAGAAAGGAAGGGAAGAAAGCGAAAGGAGCGGGCGCTAGGGCGCTGGCAAGTG
3201 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3300
     CCCTCGGGGGCTAAATCTCGAACTGCCCCTTTCGGCCGCTTGCACCGCTCTTTCCTTCCCTTCTTTCGCTTTCCTCGCCCGCGATCCCGCGACCGTTCAC
```

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      TAGCGGTCACGCTGCGCGTAACCACCACACCCGCCGCGCTTAATGCGCCGCTACAGGGCGCGTCAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCC
3301  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3400
      ATCGCCAGTGCGACGCGCATTGGTGGTGTGGGCGGCGCGAATTACGCGGCGATGTCCCGCGCAGTCCACCGTGAAAAGCCCCTTTACACGCGCCTTGGGG

                                          BciV1
                                        BspH1  |
             polyA                     BsrB1 |  |                            Ssp1  Ear1        Bsu36
                 |                        | |  |                               |     |             |
      TATTTGTTTATTTTTCTAAATACATTCAAATATGTATCCGCTCATGAGACAATAACCCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTCCTGAG
3401  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3500
      ATAAACAAATAAAAAGATTTATGTAAGTTTATACATAGGCGAGTACTCTGTTATTGGGACTATTTACGAAGTTATTATAACTTTTTCCTTCTCAGGACTC

                                                                                                Nsi1
                                                                                              Sph1 |
                 Eci1                                                                        BfrB1 |
               Pvu2 |                                        BseY1                    BstAP  | |
                  | |                                          |                         |   | |
      GCGGAAAGAACCAGCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTC
3501  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3600
      CGCCTTTCTTGGTCGACACCTTACACACAGTCAATCCCACACCTTTCAGGGGTCCGAGGGGTCGTCCGTCTTCATACGTTTCGTACGTAGAGTTAATCAG

                                                      Nsi1
                                                    Sph1 |
                                                   BfrB1 |
      SexA1                     BseY1                BstAP  | |                        Eci1
          |                        |                    |   | |                          |
      AGCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCTAACTCCG
3601  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3700
      TCGTTGGTCCACACCTTTCAGGGGTCCGAGGGGTCGTCCGTCTTCATACGTTTCGTACGTAGAGTTAATCAGTCGTTGGTATCAGGGCGGGGATTGAGGC

                 Eci1                                                                                Sfi1
          Eci1     Bmr1|       Eci1            Nco1                    polyA                      Bgl1
             |        ||          |               |                       |                          |
      CCCATCCCGCCCCTAACTCCGCCCAGTTCCGCCCATTCTCCGCCCCATGGCTGACTAATTTTTTTTATTTATGCAGAGGCCGAGGCCGCCTCGGCCTCTG
3701  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3800
      GGGTAGGGCGGGGATTGAGGCGGGTCAAGGCGGGTAAGAGGCGGGGTACCGACTGATTAAAAAAAATAAATACGTCTCCGGCTCCGGCGGAGCCGGAGAC
```

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                                    Avr2
                                   Stu1|
                SpDon             BseR1  ||              Cla1              BsaB1
                    |                 |  ||                |                 |
     AGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAGATCGATCAAGAGACAGGATGAGGATCGTTTCGCATGATTGAACAAG
3801 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3900
     TCGATAAGGTCTTCATCACTCCTCCGAAAAAACCTCCGGATCCGAAAACGTTTCTAGCTAGTTCTCTGTCCTACTCCTAGCAAAGCGTACTAACTTGTTC

    BspM1               Eag1                                      Bmr1
       |                  |                                         |
     ATGGATTGCACGCAGGTTCTCCGGCCGCTTGGGTGGAGAGGCTATTCGGCTATGACTGGGCACAACAGACAATCGGCTGCTCTGATGCCGCCGTGTTCCG
3901 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 4000
     TACCTAACGTGCGTCCAAGAGGCCGGCGAACCCACCTCTCCGATAAGCCGATACTGACCCGTGTTGTCTGTTAGCCGACGAGACTACGGCGGCACAAGGC

                Nar1
               Kas1|                       Drd1                                                  Msc1
                   ||                        |                                                     |
     GCTGTCAGCGCAGGGGCGCCCGGTTCTTTTTGTCAAGACCGACCTGTCCGGTGCCCTGAATGAACTGCAAGACGAGGCAGCGCGGCTATCGTGGCTGGCC
4001 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 4100
     CGACAGTCGCGTCCCCGCGGGCCAAGAAAAACAGTTCTGGCTGGACAGGCCACGGGACTTACTTGACGTTCTGCTCCGTCGCGCCGATAGCACCGACCGG

                        Pvu2
                Fsp1     |       PflF1                      Eco57
                   |     |          |                         |
     ACGACGGGCGTTCCTTGCGCAGCTGTGCTCGACGTTGTCACTGAAGCGGGAAGGGACTGGCTGCTATTGGGCGAAGTGCCGGGGCAGGATCTCCTGTCAT
4101 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 4200
     TGCTGCCCGCAAGGAACGCGTCGACACGAGCTGCAACAGTGACTTCGCCCTTCCCTGACCGACGATAACCCGCTTCACGGCCCCGTCCTAGAGGACAGTA

                                                                                        BtgZ1
     SpDon                          BciV1         BsrD1                             BspM1  |
         |                             |             |                                  |  |
     CTCACCTTGCTCCTGCCGAGAAAGTATCCATCATGGCTGATGCAATGCGGCGGCTGCATACGCTTGATCCGGCTACCTGCCCATTCGACCACCAAGCGAA
4201 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 4300
     GAGTGGAACGAGGACGGCTCTTTCATAGGTAGTACCGACTACGTTACGCCGCCGACGTATGCGAACTAGGCCGATGGACGGGTAAGCTGGTGGTTCGCTT
```

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                                                        Sap1
                                                        Ear1                          BpuE1
                                                          |                             |
     ACATCGCATCGAGCGAGCACGTACTCGGATGGAAGCCGGTCTTGTCGATCAGGATGATCTGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAACTGTTC
4301 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 4400
     TGTAGCGTAGCTCGCTCGTGCATGAGCCTACCTTCGGCCAGAACAGCTAGTCCTACTAGACCTGCTTCTCGTAGTCCCCGAGCGCGGTCGGCTTGACAAG

                      Sph1                        Nco1                BtgZ1
                        |                           |                   |
     GCCAGGCTCAAGGCGAGCATGCCCGACGGCGAGGATCTCGTCGTGACCCATGGCGATGCCTGCTTGCCGAATATCATGGTGGAAAATGGCCGCTTTTCTG
4401 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 4500
     CGGTCCGAGTTCCGCTCGTACGGGCTGCCGCTCCTAGAGCAGCACTGGGTACCGCTACGGACGAACGGCTTATAGTACCACCTTTTACCGGCGAAAAGAC

                    BseY1
                   Nae1 |                                                Sap1
               NgoM4 | |        Rsr2         Eci1                      Ear1                    Eco57
                    | | |          |            |                         |                        |
     GATTCATCGACTGTGGCCGGCTGGGTGTGGCGGACCGCTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGCGAATGGGCTGA
4501 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 4600
     CTAAGTAGCTGACACCGGCCGACCCACACCGCCTGGCGATAGTCCTGTATCGCAACCGATGGGCACTATAACGACTTCTCGAACCGCCGCTTACCCGACT

                              BtgZ1
        BssS1                BsrB1 |                                                  BsrB1          BstB1
            |                    | |                                                     |              |
     CCGCTTCCTCGTGCTTTACGGTATCGCCGCTCCCGATTCGCAGCGCATCGCCTTCTATCGCCTTCTTGACGAGTTCTTCTGAGCGGGACTCTGGGGTTCG
4601 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 4700
     GGCGAAGGAGCACGAAATGCCATAGCGGCGAGGGCTAAGCGTCGCGTAGCGGAAGATAGCGGAAGAACTGCTCAAGAAGACTCGCCCTGAGACCCCAAGC

                                  BssS1                                                          NgoM4
                                  BspM1                       SpAcc                               Bpm1
                                      |                         |                                   |
     AAATGACCGACCAAGCGACGCCCAACCTGCCATCACGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGGTTGGGCTTCGGAATCGTTTTCCGGGACGC
4701 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 4800
     TTTACTGGCTGGTTCGCTGCGGGTTGGACGGTAGTGCTCTAAAGCTAAGGTGGCGGCGGAAGATACTTTCCAACCCGAAGCCTTAGCAAAAGGCCCTGCG
```

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                                                        Bpm1
                                                    SpAcc  |
   Nae1                                              Avr2  |
      |                                                 |  |
      CGGCTGGATGATCCTCCAGCGCGGGGATCTCATGCTGGAGTTCTTCGCCCACCCTAGGGGGAGGCTAACTGAAACACGGAAGGAGACAATACCGGAAGGA
 4801 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 4900
      GCCGACCTACTAGGAGGTCGCGCCCCTAGAGTACGACCTCAAGAAGCGGGTGGGATCCCCCTCCGATTGACTTTGTGCCTTCCTCTGTTATGGCCTTCCT

                  polyA        polyA
                      |            |
      ACCCGCGCTATGACGGCAATAAAAAGACAGAATAAAACGCACGGTGTTGGGTCGTTTGTTCATAAACGCGGGGTTCGGTCCCAGGGCTGGCACTCTGTCG
 4901 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 5000
      TGGGCGCGATACTGCCGTTATTTTTCTGTCTTATTTTGCGTGCCACAACCCAGCAAACAAGTATTTGCGCCCCAAGCCAGGGTCCCGACCGTGAGACAGC

       Bsa1
          |
      ATACCCCACCGAGACCCCATTGGGGCCAATACGCCCGCGTTTCTTCCTTTTCCCCACCCCACCCCCCAAGTTCGGGTGAAGGCCCAGGGCTCGCAGCCAA
 5001 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 5100
      TATGGGGTGGCTCTGGGGTAACCCCGGTTATGCGGGCGCAAAGAAGGAAAAGGGGTGGGGTGGGGGGTTCAAGCCCACTTCCGGGTCCCGAGCGTCGGTT

                  BstAP
                  AlwN1      Bsu36                            Dra1               Dra1
                      |          |                               |                  |
      CGTCGGGGCGGCAGGCCCTGCCATAGCCTCAGGTTACTCATATATACTTTAGATTGATTTAAAACTTCATTTTTAATTTAAAAGGATCTAGGTGAAGATC
 5101 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 5200
      GCAGCCCCGCCGTCCGGGACGGTATCGGAGTCCAATGAGTATATATGAAATCTAACTAAATTTTGAAGTAAAAATTAAATTTTCCTAGATCCACTTCTAG

               BspH1
                  |
      CTTTTTGATAATCTCATGACCAAAATCCCTTAACGTGAGTTTTCGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTT
 5201 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 5300
      GAAAAACTATTAGAGTACTGGTTTTAGGGAATTGCACTCAAAAGCAAGGTGACTCGCAGTCTGGGGCATCTTTTCTAGTTTCCTAGAAGAACTCTAGGAA

           BpuE1                                                                                Eco57
              |                                                                                    |
      TTTTTCTGCGCGTAATCTGCTGCTTGCAAACAAAAAAACCACCGCTACCAGCGGTGGTTTGTTTGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGT
 5301 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 5400
      AAAAAGACGCGCATTAGACGACGAACGTTTGTTTTTTTGGTGGCGATGGTCGCCACCAAACAAACGGCCTAGTTCTCGATGGTTGAGAAAAAGGCTTCCA
```

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                                          SpAcc
                                            |
      AACTGGCTTCAGCAGAGCGCAGATACCAAATACTGTCCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCTACATACCTC
5401  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 5500
      TTGACCGAAGTCGTCTCGCGTCTATGGTTTATGACAGGAAGATCACATCGGCATCAATCCGGTGGTGAAGTTCTTGAGACATCGTGGCGGATGTATGGAG

                         AlwN1                      BpuE1
                            |                          |
      GCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCGTGTCTTACCGGGTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGT
5501  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 5600
      CGAGACGATTAGGACAATGGTCACCGACGACGGTCACCGCTATTCAGCACAGAATGGCCCAACCTGAGTTCTGCTATCAATGGCCTATTCCGCGTCGCCA

                    ApaL1     BseY1                                            SpAcc
                        |         |                                                |
      CGGGCTGAACGGGGGGTTCGTGCACACAGCCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCT
5601  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 5700
      GCCCGACTTGCCCCCCAAGCACGTGTGTCGGGTCGAACCTCGCTTGCTGGATGTGGCTTGACTCTATGGATGTCGCACTCGATACTCTTTCGCGGTGCGA


                                   BciV1
                                Eci1   |                    BssS1
                                   |   |                        |
      TCCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTCCAGGGGGAAACGCCTGGTATCTTTAT
5701  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 5800
      AGGGCTTCCCTCTTTCCGCCTGTCCATAGGCCATTCGCCGTCCCAGCCTTGTCCTCTCGCGTGCTCCCTCGAAGGTCCCCCTTTGCGGACCATAGAAATA


   SpAcc                           Drd1            BpuE1               SpAcc     Eci1
     |                                |                |                   |        |
      AGTCCTGTCGGGTTTCGCCACCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGGGGGGCGGAGCCTATGGAAAAACGCCAGCAACGCGGCCTTTT
5801  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 5900
      TCAGGACAGCCCAAAGCGGTGGAGACTGAACTCGCAGCTAAAAACACTACGAGCAGTCCCCCCGCCTCGGATACCTTTTTGCGGTCGTTGCGCCGGAAAA


                                  SpDon                                                   Nsi1
                                 BspLU|                                                 BfrB1 |
                                     ||                                                      | |
      TACGGTTCCTGGCCTTTTGCTGGCCTTTTGCTCACATGTTCTTTCCTGCGTTATCCCCTGATTCTGTGGATAACCGTATTACCGCCATGCAT
5901  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|| 5992
      ATGCCAAGGACCGGAAAACGACCGGAAAACGAGTGTACAAGAAAGGACGCAATAGGGGACTAAGACACCTATTGGCATAATGGCGGTACGTA
```

Found:

Aat2	**Acc65**	**Afl2**	Age1	Ahd1	Ale1	AlwN1	Apa1	ApaL1	**Ase1**	Avr2	BamH1	**BbvC1**	BciV1
BfrB1	Bgl1	**Bgl2**	**BmgB1**	Bmr1	Bpm1	Bpu10	BpuE1	Bsa1	BsaB1	BsaXa	BsaXb	BseR1	BseY1
Bsg1	Bsm1	BsmB1	BspH1	**BspLU**	BspM1	BsrB1	**BsrD1**	**BsrG1**	BssS1	BstAP	**BstB1**	**BstE2**	**BstX1**
Bsu36	BtgZ1	**Bts1**	**_Chi**	**Cla1**	Dra1	Dra3	Drd1	Eag1	Ear1	Eci1	Eco57	**EcoN1**	**EcoR1**
Fsp1	**Hpa1**	Kas1	**Kpn1**	**Mfe1**	Msc1	Nae1	Nar1	Nco1	**Nde1**	NgoM4	**Nhe1**	**Not1**	Nsi1
PflF1	PflM1	polyA	Psi1	PspOM	Pst1	Pvu2	**Rsr2**	Sac2	**Sal1**	**SanD1**	Sap1	**Sca1**	**SexA1**
Sfi1	Sma1	**SnaB1**	SpAcc	SpDon	Sph1	Ssp1	Stu1	**T7Ter**	**Xba1**	Xcm1	**Xmn1**		

Unique:

Acc65	**Afl2**	**Ase1**	**BbvC1**	**Bgl2**	**BmgB1**	**BspLU**	**BsrD1**	**BsrG1**	**BstB1**	**BstE2**	**BstX1**	**Bts1**	**_Chi**
Cla1	**EcoN1**	**EcoR1**	**Fsp1**	**Hpa1**	**Kpn1**	**Mfe1**	**Nde1**	**Nhe1**	**Not1**	**PflF1**	**Rsr2**	**Sal1**	**SanD1**
Sca1	**SexA1**	**Sfi1**	**SnaB1**	**T7Ter**	**Xba1**	**Xmn1**							

Not found:

Aar1	Acl1	Afe1	Asc1	AsiS1	Bae1a	Bae1b	Bbs1	Bcg1a	Bcg1b	Bcl1	Blp1	BsiW1	BspE1
BssH2	BstZ1	BxatB	BxatL	BxatR	BxatP	Ecl2	EcoK	EcoRV	FCatB	FCatL	FCatR	FCatP	ScFRT
Fse1	FspA1	Hind3	I_Ceu	loxP	Mlu1	Nru1	Pac1	Pme1	Pml1	PshA1	Pvu1	R4atB	R4atL
R4atP	R4atR	Sac1	Sbf1	Sgf1	SgrA1	Spe1	Srf1	Swa1	T3RNA	T7RNA	PISce	Xho1	

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													