pDendra2-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). Additional amino acids and those encoded by vector's backbone sequence are shown in black.

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

                        BseR1       BamH1                          EcoN1
                     SpAcc  |      BsaB1|            Sma1        Bcl1 |                    ApaL1
                         |  |          ||               |           | |                       |
               AGGAGAAATTAACTATGAGAGGATCGGGATCCATGAACACCCCGGGAATTAACCTGATCAAGGAGGACATGCGCGTGAAGGTGCACATGGAGGGCAACGT
           101 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 200
               TCCTCTTTAATTGATACTCTCCTAGCCCTAGGTACTTGTGGGGCCCTTAATTGGACTAGTTCCTCCTGTACGCGCACTTCCACGTGTACCTCCCGTTGCA
Dendra2      >                                M  N  T  P  G  I  N  L  I  K  E  D  M  R  V  K  V  H  M  E  G  N  V

                                                                                                   Nar1
                                                                                                  Kas1|
                                                  SpAcc                                         Eco57||
                                                     |                                              |||
               GAACGGCCACGCCTTCGTGATCGAGGGCGAGGGCAAGGGCAAGCCCTACGAGGGCACCCAGACCGCCAACCTGACCGTGAAGGAGGGCGCCCCCCTGCCC
           201 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 300
               CTTGCCGGTGCGGAAGCACTAGCTCCCGCTCCCGTTCCCGTTCGGGATGCTCCCGTGGGTCTGGCGGTTGGACTGGCACTTCCTCCCGCGGGGGGACGGG
Dendra2      >  N  G  H  A  F  V  I  E  G  E  G  K  G  K  P  Y  E  G  T  Q  T  A  N  L  T  V  K  E  G  A  P  L  P
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                                ApaL1
                              Ale1  |
                                 |  |
            TTCAGCTACGACATCCTGACCACCGCCGTGCACTACGGCAACCGGGTGTTCACCAAGTACCCCGAGGACATCCCCGACTACTTCAAGCAGAGCTTCCCCG
        301 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 400
            AAGTCGATGCTGTAGGACTGGTGGCGGCACGTGATGCCGTTGGCCCACAAGTGGTTCATGGGGCTCCTGTAGGGGCTGATGAAGTTCGTCTCGAAGGGGC
Dendra2   > F  S  Y  D  I  L  T  T  A  V  H  Y  G  N  R  V  F  T  K  Y  P  E  D  I  P  D  Y  F  K  Q  S  F  P  E

                  Pvu2                                                                                SpAcc
                 BseY1                  Bsg1                                        Bgl1             Bpm1 |
                    |                     |                                           |                 | |
            AGGGCTACAGCTGGGAGCGCACCATGACCTTCGAGGACAAGGGCATCTGCACCATCCGCAGCGACATCAGCCTGGAGGGCGACTGCTTCTTCCAGAACGT
        401 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 500
            TCCCGATGTCGACCCTCGCGTGGTACTGGAAGCTCCTGTTCCCGTAGACGTGGTAGGCGTCGCTGTAGTCGGACCTCCCGCTGACGAAGAAGGTCTTGCA
Dendra2   >   G  Y  S  W  E  R  T  M  T  F  E  D  K  G  I  C  T  I  R  S  D  I  S  L  E  G  D  C  F  F  Q  N  V

                                                                                 Bsg1
                                                                Bbs1            BseY1     Eco57        Pml1
                                                                  |               |         |            |
            GCGCTTCAAGGGCACCAACTTCCCCCCCAACGGCCCCGTGATGCAGAAGAAGACCCTGAAGTGGGAGCCCAGCACCGAGAAGCTGCACGTGCGCGACGGC
        501 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 600
            CGCGAAGTTCCCGTGGTTGAAGGGGGGGTTGCCGGGGCACTACGTCTTCTTCTGGGACTTCACCCTCGGGTCGTGGCTCTTCGACGTGCACGCGCTGCCG
Dendra2   >  R  F  K  G  T  N  F  P  P  N  G  P  V  M  Q  K  K  T  L  K  W  E  P  S  T  E  K  L  H  V  R  D  G

                  _Chi                                        Bpm1                                BstX1     Pvu2
                    |                                           |                                   |         |
            CTGCTGGTGGGCAACATCAACATGGCCCTGCTGCTGGAGGGCGGCGGCCACTACCTGTGCGACTTCAAGACCACCTACAAGGCCAAGAAGGTGGTGCAGC
        601 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 700
            GACGACCACCCGTTGTAGTTGTACCGGGACGACGACCTCCCGCCGCCGGTGATGGACACGCTGAAGTTCTGGTGGATGTTCCGGTTCTTCCACCACGTCG
Dendra2   > L  L  V  G  N  I  N  M  A  L  L  L  E  G  G  G  H  Y  L  C  D  F  K  T  T  Y  K  A  K  K  V  V  Q  L

                     PflM1
                      Dra3
                    Bsg1 |                                                SpDon                 Dra3
                       | |                                                  |                     |
            TGCCCGACGCCCACTTCGTGGACCACCGCATCGAGATCCTGGGCAACGACAGCGACTACAACAAGGTGAAGCTGTACGAGCACGCCGTGGCCCGCTACAG
        701 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 800
            ACGGGCTGCGGGTGAAGCACCTGGTGGCGTAGCTCTAGGACCCGTTGCTGTCGCTGATGTTGTTCCACTTCGACATGCTCGTGCGGCACCGGGCGATGTC
Dendra2   >   P  D  A  H  F  V  D  H  R  I  E  I  L  G  N  D  S  D  Y  N  K  V  K  L  Y  E  H  A  V  A  R  Y  S
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                BseY1                          BsrG1 SpDonHind3        Blp1
                   |                              |     |    |           |
           CCCCCTGCCCAGCCAGGTGTGGTCCGGCGACAGCGGCGTGTACAAGTGAAAGCTTAATTAGCTGAGCTTGGACTCCTGTTGATAGATCCAGTAATGACCT
      801  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 900
           GGGGGACGGGTCGGTCCACACCAGGCCGCTGTCGCCGCACATGTTCACTTTCGAATTAATCGACTCGAACCTGAGGACAACTATCTAGGTCATTACTGGA
Dendra2      >  P  L  P  S  Q  V  W  S  G  D  S  G  V  Y  K  *
                                                                                                   Bpu10
                                                                polyA          Nhe1                SpAcc|
                                                                   |             |                    ||
           CAGAACTCCATCTGGATTTGTTCAGAACGCTCGGTTGCCGCCGGGCGTTTTTTATTGGTGAGAATCCAAGCTAGCTTGGCGAGATTTTCAGGAGCTAAGG
      901  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1000
           GTCTTGAGGTAGACCTAAACAAGTCTTGCGAGCCAACGGCGGCCCGCAAAAAATAACCACTCTTAGGTTCGATCGAACCGCTCTAAAAGTCCTCGATTCC

           AAGCTAAAATGGAGAAAAAAATCACTGGATATACCACCGTTGATATATCCCAATGGCATCGTAAAGAACATTTTGAGGCATTTCAGTCAGTTGCTCAATG
     1001  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1100
           TTCGATTTTACCTCTTTTTTTAGTGACCTATATGGTGGCAACTATATAGGGTTACCGTAGCATTTCTTGTAAAACTCCGTAAAGTCAGTCAACGAGTTAC

                                                                                                  SpDon
                                Pvu2                Dra1                                     polyA  |
                                   |                   |                                          |  |
           TACCTATAACCAGACCGTTCAGCTGGATATTACGGCCTTTTTAAAGACCGTAAAGAAAAATAAGCACAAGTTTTATCCGGCCTTTATTCACATTCTTGCC
     1101  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1200
           ATGGATATTGGTCTGGCAAGTCGACCTATAATGCCGGAAAAATTTCTGGCATTTCTTTTTATTCGTGTTCAAAATAGGCCGGAAATAAGTGTAAGAACGG

                          BspE1
                     Bsm1  |                  BsrD1
                        |  |                     |
           CGCCTGATGAATGCTCATCCGGAATTTCGTATGGCAATGAAAGACGGTGAGCTGGTGATATGGGATAGTGTTCACCCTTGTTACACCGTTTTCCATGAGC
     1201  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1300
           GCGGACTACTTACGAGTAGGCCTTAAAGCATACCGTTACTTTCTGCCACTCGACCACTATACCCTATCACAAGTGGGAACAATGTGGCAAAAGGTACTCG

         BtgZ1    Acl1                                Bpm1
           |       |                                    |
           AAACTGAAACGTTTTCATCGCTCTGGAGTGAATACCACGACGATTTCCGGCAGTTTCTACACATATATTCGCAAGATGTGGCGTGTTACGGTGAAAACCT
     1301  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1400
           TTTGACTTTGCAAAAGTAGCGAGACCTCACTTATGGTGCTGCTAAAGGCCGTCAAAGATGTGTATATAAGCGTTCTACACCGCACAATGCCACTTTTGGA
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                        polyA                 BsmB1   PflM1          SpDon        Dra1    Msc1
                           |                     |       |              |           |       |
     GGCCTATTTCCCTAAAGGGTTTATTGAGAATATGTTTTTCGTCTCAGCCAATCCCTGGGTGAGTTTCACCAGTTTTGATTTAAACGTGGCCAATATGGAC
1401 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1500
     CCGGATAAAGGGATTTCCCAAATAACTCTTATACAAAAAGCAGAGTCGGTTAGGGACCCACTCAAAGTGGTCAAAACTAAATTTGCACCGGTTATACCTG

                      SpDon
                       Nco1       Ssp1
                         |          |
     AACTTCTTCGCCCCCGTTTTCACCATGGGCAAATATTATACGCAAGGCGACAAGGTGCTGATGCCGCTGGCGATTCAGGTTCATCATGCCGTCTGTGATG
1501 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1600
     TTGAAGAAGCGGGGGCAAAAGTGGTACCCGTTTATAATATGCGTTCCGCTGTTCCACGACTACGGCGACCGCTAAGTCCAAGTAGTACGGCAGACACTAC

                      Bsm1             Sca1              BtgZ1
                        |                |                 |
     GCTTCCATGTCGGCAGAATGCTTAATGAATTACAACAGTACTGCGATGAGTGGCAGGGCGGGGCGTAATTTTTTTAAGGCAGTTATTGGTGCCCTTAAAC
1601 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1700
     CGAAGGTACAGCCGTCTTACGAATTACTTAATGTTGTCATGACGCTACTCACCGTCCCGCCCCGCATTAAAAAAATTCCGTCAATAACCACGGGAATTTG

                                 polyA     BpuE1                       Bmr1T7Ter
                                    |         |                           |    |
     GCCTGGGGTAATGACTCTCTAGCTTGAGGCATCAAATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTTTCGTTTTATCTGTTGTTTGTCGGTGAACGC
1701 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1800
     CGGACCCCATTACTGAGAGATCGAACTCCGTAGTTTATTTTGCTTTCCGAGTCAGCTTTCTGACCCGGAAAGCAAAATAGACAACAAACAGCCACTTGCG

                          Xba1
          Eci1           BsrB1 |                                                  BsmB1
            |                | |                                                     |
     TCTCCTGAGTAGGACAAATCCGCCGCTCTAGAGCTGCCTCGCGCGTTTCGGTGATGACGGTGAAAACCTCTGACACATGCAGCTCCCGGAGACGGTCACA
1801 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 1900
     AGAGGACTCATCCTGTTTAGGCGGCGAGATCTCGACGGAGCGCGCAAAGCCACTACTGCCACTTTTGGAGACTGTGTACGTCGAGGGCCTCTGCCAGTGT

                                   Drd1                                          Bmr1 PflF1
                                     |                                              |     |
     GCTTGTCTGTAAGCGGATGCCGGGAGCAGACAAGCCCGTCAGGGCGCGTCAGCGGGTGTTGGCGGGTGTCGGGGCGCAGCCATGACCCAGTCACGTAGCG
1901 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2000
     CGAACAGACATTCGCCTACGGCCCTCGTCTGTTCGGGCAGTCCCGCGCAGTCGCCCACAACCGCCCACAGCCCCGCGTCGGTACTGGGTCAGTGCATCGC
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                                                                BstAP
                BstZ1                                   ApaL1   Nde1|
                    |                                       |      ||
      ATAGCGGAGTGTATACTGGCTTAACTATGCGGCATCAGAGCAGATTGTACTGAGAGTGCACCATATGCGGTGTGAAATACCGCACAGATGCGTAAGGAGA
2001  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2100
      TATCGCCTCACATATGACCGAATTGATACGCCGTAGTCTCGTCTAACATGACTCTCACGTGGTATACGCCACACTTTATGGCGTGTCTACGCATTCCTCT

                          Sap1
                          Ear1                                          BsrB1
                             |                                             |
      AAATACCGCATCAGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCTGTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAA
2101  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2200
      TTTATGGCGTAGTCCGCGAGAAGGCGAAGGAGCGAGTGACTGAGCGACGCGAGCCAGACAGCCGACGCCGCTCGCCATAGTCGAGTGAGTTTCCGCCATT

                                          SpDon
                                      BspLU  |
                                          |  |
      TACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTT
2201  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2300
      ATGCCAATAGGTGTCTTAGTCCCCTATTGCGTCCTTTCTTGTACACTCGTTTTCCGGTCGTTTTCCGGTCCTTGGCATTTTTCCGGCGCAACGACCGCAA

    Eci1  SpAcc                 BpuE1             Drd1                        SpAcc
      |      |                     |                 |                           |
      TTTCCATAGGCTCCGCCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCC
2301  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2400
      AAAGGTATCCGAGGCGGGGGGACTGCTCGTAGTGTTTTTAGCTGCGAGTTCAGTCTCCACCGCTTTGGGCTGTCCTGATATTTCTATGGTCCGCAAAGGG

                BssS1                         BciV1 Eci1
                    |                             |    |
      CCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCAATGCT
2401  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2500
      GGACCTTCGAGGGAGCACGCGAGAGGACAAGGCTGGGACGGCGAATGGCCTATGGACAGGCGGAAAGAGGGAAGCCCTTCGCACCGCGAAAGAGTTACGA

                                            BseY1     ApaL1
                                                |         |
      CACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGACCGCTGCGCCTTATCCGGTAA
2501  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2600
      GTGCGACATCCATAGAGTCAAGCCACATCCAGCAAGCGAGGTTCGACCCGACACACGTGCTTGGGGGGCAAGTCGGGCTGGCGACGCGGAATAGGCCATT
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                          BpuE1                     AlwN1
                            |                         |
     CTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACA
2601 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2700
     GATAGCAGAACTCAGGTTGGGCCATTCTGTGCTGAATAGCGGTGACCGTCGTCGGTGACCATTGTCCTAATCGTCTCGCTCCATACATCCGCCACGATGT

                              SpAcc                                                   Eco57
                                |                                                       |
     GAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTA
2701 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2800
     CTCAAGAACTTCACCACCGGATTGATGCCGATGTGATCTTCCTGTCATAAACCATAGACGCGAGACGACTTCGGTCAATGGAAGCCTTTTTCTCAACCAT

                                                                          BpuE1
                                                                            |
     GCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAAGATCCTTT
2801 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 2900
     CGAGAACTAGGCCGTTTGTTTGGTGGCGACCATCGCCACCAAAAAAACAAACGTTCGTCGTCTAATGCGCGTCTTTTTTTCCTAGAGTTCTTCTAGGAAA

                                                          BspH1                                   Dra1
                                                            |                                       |
     GATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTA
2901 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3000
     CTAGAAAAGATGCCCCAGACTGCGAGTCACCTTGCTTTTGAGTGCAATTCCCTAAAACCAGTACTCTAATAGTTTTTCCTAGAAGTGGATCTAGGAAAAT

                  Dra1
                    |
     AATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCT
3001 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3100
     TTAATTTTTACTTCAAAATTTAGTTAGATTTCATATATACTCATTTGAACCAGACTGTCAATGGTTACGAATTAGTCACTCCGTGGATAGAGTCGCTAGA

                                                                    Bmr1                BsrD1
                                  Ahd1                        SpDon   |                    Bsa1
                                    |                           |   |                      |
     GTCTATTTCGTTCATCCATAGCTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCG
3101 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3200
     CAGATAAAGCAAGTAGGTATCGACGGACTGAGGGGCAGCACATCTATTGATGCTATGCCCTCCCGAATGGTAGACCGGGGTCACGACGTTACTATGGCGC
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     Bpm1                        polyA                Bgl1                   Eci1
       |                           |                    |                      |
     AGACCCACGCTCACCGGCTCCAGATTTATCAGCAATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTATCCGCCTCCATCCAG
3201 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3300
     TCTGGGTGCGAGTGGCCGAGGTCTAAATAGTCGTTATTTGGTCGGTCGGCCTTCCCGGCTCGCGTCTTCACCAGGACGTTGAAATAGGCGGAGGTAGGTC

                                                                Acl1
      Ase1                                                Fsp1    |    BsrD1
        |                                                   |    |        |
     TCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTCACGCTCGT
3301 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3400
     AGATAATTAACAACGGCCCTTCGATCTCATTCATCAAGCGGTCAATTATCAAACGCGTTGCAACAACGGTAACGATGTCCGTAGCACCACAGTGCGAGCA

     CGTTTGGTATGGCTTCATTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCCTCC
3401 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3500
     GCAAACCATACCGAAGTAAGTCGAGGCCAAGGGTTGCTAGTTCCGCTCAATGTACTAGGGGGTACAACACGTTTTTTCGCCAATCGAGGAAGCCAGGAGG

     Pvu1      SpDon              Bts1                Bts1
       |          |                  |                   |
     GATCGTTGTCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCT
3501 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3600
     CTAGCAACAGTCTTCATTCAACCGGCGTCACAATAGTGAGTACCAATACCGTCGTGACGTATTAAGAGAATGACAGTACGGTAGGCATTCTACGAAAAGA

       SpDon  Sca1                    Bcg1a                            Bcg1b
          |     |                        |                                |
     GTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATA
3601 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3700
     CACTGACCACTCATGAGTTGGTTCAGTAAGACTCTTATCACATACGCCGCTGGCTCAACGAGAACGGGCCGCAGTTATGCCCTATTATGGCGCGGTGTAT

                                Xmn1
            Dra1                Acl1 BpuE1                                                      BssS1
              |                   |     |                                                         |
     GCAGAACTTTAAAAGTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCG
3701 |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3800
     CGTCTTGAAATTTTCACGAGTAGTAACCTTTTGCAAGAAGCCCCGCTTTTGAGAGTTCCTAGAATGGCGACAACTCTAGGTCAAGCTACATTGGGTGAGC
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     EcoK
 Eco57  |
 ApaL1  |                      SpDon SpDon
     |  |                          |     |
      TGCACCCAACTGATCTTCAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACA
3801  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 3900
      ACGTGGGTTGACTAGAAGTCGTAGAAAATGAAAGTGGTCGCAAAGACCCACTCGTTTTTGTCCTTCCGTTTTACGGCGTTTTTTCCCTTATTCCCGCTGT

                                                                                  BsrB1
                                                                             BciV1   |
                                Ear1     Ssp1                            BspH1 |   |
                                   |        |                              | |   |
      CGGAAATGTTGAATACTCATACTCTTCCTTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGA
3901  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 4000
      GCCTTTACAACTTATGAGTATGAGAAGGAAAAAGTTATAATAACTTCGTAAATAGTCCCAATAACAGAGTACTCGCCTATGTATAAACTTACATAAATCT

   polyA                                                 Aat2             BspH1       SpAcc
      |                                                     |                |           |
      AAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTATCATGACATTAACCTATAAAAATAGGCG
4001  |||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||*|||||||||* 4100
      TTTTATTTGTTTATCCCCAAGGCGCGTGTAAAGGGGCTTTTCACGGTGGACTGCAGATTCTTTGGTAATAATAGTACTGTAATTGGATATTTTTATCCGC

     BssS1   Bbs1
        |      |
      TATCACGAGGCCCTTTCGTCTTCAC
4101  |||||||||*|||||||||*||||| 4125
      ATAGTGCTCCGGGAAAGCAGAAGTG
```

Found:

Aat2	Acl1	**Ahd1**	**Ale1**	**AlwN1**	ApaL1	**Ase1**	**BamH1**	Bbs1	**Bcg1a**	**Bcg1b**	BciV1	**Bcl1**	Bgl1
Blp1	Bmr1	Bpm1	**Bpu10**	BpuE1	**Bsa1**	**BsaB1**	**BseR1**	BseY1	Bsg1	Bsm1	BsmB1	**BspE1**	BspH1
BspLU	BsrB1	BsrD1	**BsrG1**	BssS1	**BstAP**	**BstX1**	**BstZ1**	BtgZ1	Bts1	**_Chi**	Dra1	Dra3	Drd1
Ear1	Eci1	Eco57	**EcoK**	**EcoN1**	**Fsp1**	**Hind3**	**Kas1**	**Mfe1**	**Msc1**	**Nar1**	**Nco1**	**Nde1**	**Nhe1**
PflF1	PflM1	**Pml1**	polyA	**Psi1**	**Pvu1**	Pvu2	**Sap1**	Sca1	**Sma1**	SpAcc	SpDon	Ssp1	**T7Ter**
Xba1	**Xho1**	**Xmn1**											

Unique:

Aat2	**Ahd1**	**Ale1**	**AlwN1**	**Ase1**	**BamH1**	**Bcg1a**	**Bcg1b**	**Bcl1**	**Blp1**	**Bpu10**	**Bsa1**	**BsaB1**	**BseR1**
BspE1	**BspLU**	**BsrG1**	**BstAP**	**BstX1**	**BstZ1**	**_Chi**	**EcoK**	**EcoN1**	**Fsp1**	**Hind3**	**Kas1**	**Mfe1**	**Msc1**
Nar1	**Nco1**	**Nde1**	**Nhe1**	**PflF1**	**Pml1**	**Psi1**	**Pvu1**	**Sap1**	**Sma1**	**T7Ter**	**Xba1**	**Xho1**	**Xmn1**

Not found:

Aar1	Acc65	Afe1	Afl2	Age1	Apa1	Asc1	AsiS1	Avr2	Bae1a	Bae1b	BbvC1	BfrB1	BfuA1
Bgl2	BmgB1	BsaXa	BsaXb	BsiW1	BspM1	BssH2	BstB1	BstE2	Bsu36	Cla1	Eag1	EcoR1	EcoRV
ScFRT	Fse1	FspA1	Hpa1	I_Ceu	Kpn1	loxP	Mlu1	Nae1	NgoM4	Not1	Nru1	Nsi1	Pac1
Pme1	PshA1	PspOM	Pst1	Rsr2	Sac1	Sac2	Sal1	SanD1	Sbf1	SexA1	Sfi1	Sgf1	SgrA1
SnaB1	Spe1	Sph1	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