

pmKate2-lyso 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 are shown in bold blue. The location given specifies the 3' end of the cut DNA (the base to the left of the cut site). mKate2 amino acids are shown in red, Lysosomal Associated Membrane Protein 1 (LAMP1) amino acids are shown in green, linker amino acids are shown in black.



Aat2Eci1

401 TAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTTGACGTCAATGGGAGTTTGTGTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTA
 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 500
 ATCGCCAAACTGAGTGCCCTAAAGGTTTCAGAGGTGGGGTAACTGCAGTTACCCTCAAACAAAACCGTGGTTTTAGTTGCCCTGAAAGGTTTTACAGCAT

Nhe1 Afel

501 ACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTGGTTTTAGTGAACCGTCAGATCCGCTAGCGCTA
 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 600
 TGTTGAGGCGGGTAACTGCGTTTACCCGCCATCCGCACATGCCACCCTCCAGATATATTCGTCTCGACCAAATCACTTGGCAGTCTAGGCGATCGCGAT

Nar1

Xho1 Bgl1 Kas1 BstAP

Bgl12 Nco1 Sma1 Stu1 BseY1

601 CCGGACTCAGATCTCGAGCGCCACCATGGCGGGCCCCGGGCGCCCGGGCGTCCGCTGCTCCTGTTGCTGCTGGCAGGCCTTGACACAGCGCCCCAGCACTG
 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 700
 GGCTTGAGTCTAGAGCTCGCGGTGGTACCGCCGGGGCCCGGGGCCGAGGCACGAGGACAACGACGACCGTCCGGAACGTGTGTGCGGGGGTTCGTGAC

LAMP1

> M A A P G A R R P L L L L L L A G L A H S A P A L

SpDon Dra3 Msc1 BspLU Bsa1

701 TTCGAGGTGAAAGACAACAACGGCACAGCGTGTATAATGGCCAGCTTCTCTGCCTCCTTTCTGACCACCTATGAGGCTGGACATGTTTCTAAGGTCTCGA
 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 800
 AAGCTCCACTTCTGTTGTTGCCGTGTCGCACATATTACCGGTTCGAAGAGACGGAGGAAAGACTGGTGGATACTCCGACCTGTACAAAGATTCCAGAGCT

LAMP1

> F E V K D N N G T A C I M A S F S A S F L T T Y E A G H V S K V S N

SpAcc SpAcc SpDon Bsm1

AlwN1 Pst1 Eco57

801 ATATGACCCTGCCAGCCTCTGCAGAAGTCTGAAGAATAGCAGCTCTTGTGGTGAAAAGAATGCTTCTGAGCCCACCCTCGCAATCACCTTTGGAGAAGG
 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 900
 TATACTGGGACGGTCGGAGACGTCTTCAGGACTTCTTATCGTCGAGAACACCACTTTTCTTACGAAGACTCGGGTGGGAGCGTTAGTGAAACCTCTTCC

LAMP1

> M T L P A S A E V L K N S S S C G E K N A S E P T L A I T F G E G

```

                SpDon                      BspLU
                |                          |
ATATTTACTGAAACTCACCTTCACAAAAAACACAACACGTTACAGTGTCCAGCACATGTATTTACATATAACCTGTCAGACACACAATTCTTTCCAAT
901  |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1000
TATAAATGACTTTGAGTGAAGTGTGTTTTGTGTTGTGCAATGTCACAGGTCGTGTACATAAAGTGTATATTGGACAGTCTGTGTGTTAAGAAAGGGTTA
LAMP1 > Y L L K L T F T K N T T R Y S V Q H M Y F T Y N L S D T Q F F P N

                Apa1                      PspOM                      Drd1
                |                          |                          |
GCCAGCTCCAAAGGGCCCCGACACTGTGGATTCCACAACCTGACATCAAGGCAGACATCAACAAAACATAACCGATGTGTTCAGCGACATCAGGGTCTACATGA
1001 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1100
CGGTCGAGGTTTCCCGGGCTGTGACACCTAAGGTGTTGACTGTAGTTCCGTCTGTAGTTGTTTTGTATGGCTACACAGTCGCTGTAGTCCCAGATGTACT
LAMP1 > A S S K G P D T V D S T T D I K A D I N K T Y R C V S D I R V Y M K

                BspM1                      StuIEco57                      BfuA1                      Ear1
                |                          |                          |                          |
AGAATGTGACCATTGTGCTCTGGGACGCTACTATCCAGGCCTACCTGCCGAGTAGCAACTTCAGCAAGGAAGAGACACGCTGCCACAGGATCAACCTTC
1101 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1200
TCTTACACTGGTAACACGAGACCCTGCGATGATAGGTCCGGATGGACGGCTCATCGTTGAAGTCGTTCCCTTCTCTGTGCGACGGGTGTCTAGTTGGAAG
LAMP1 > N V T I V L W D A T I Q A Y L P S S N F S K E E T R C P Q D Q P S

                Bmr1                      PflM1                      BseY1                      SpDon                      Bmr1                      BspM1                      BfuA1
                |                          |                          |                          |                          |                          |                          |
CCCAACTACTGGGCCACCCAGCCCCTCACCACCCTTGTGCCACAAACCCCAGTGTGTCCAAGTACAATGTGACTGGTGACAATGGAACCTGCCTGCTG
1201 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1300
GGGTTGATGACCCGGTGGGTGCGGGAGTGGTGGTGAACACGGGTGTTTGGGGTCACACAGGTTTCATGTTACACTGACCACTGTTACCTTGGACGGACGAC
LAMP1 > P T T G P P S P S P P L V P T N P S V S K Y N V T G D N G T C L L

                Bts1                      Bgl1                      Ale1                      Bsm1
                |                          |                          |                          |
GCCTCTATGGCACTGCAACTCAACATCACCTACATGAAGAAGGACAACACGACTGTGACCAGAGCATTCAACATCAACCCAAGTGACAAATATAGTGGGA
1301 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1400
CGGAGATACCGTGACGTTGAGTTGTAGTGGATGTACTTCTTCCTGTTGTGCTGACACTGGTCTCGTAAGTTGTAGTTGGGTTCACTGTTTATATCACCT
LAMP1 > A S M A L Q L N I T Y M K K D N T T V T R A F N I N P S D K Y S G T

```

```

                                Bsm1
                                BsaXb |
                                Bpm1 | |
                                SpAcc
                                |
                                Bmr1      BstE2
                                |          |
                                CTTGCGGTGCCAGTTGGTGACCCCTGAAGGTGGGGAACAAGAGCAGAGTCCTGGAGCTGCAGTTTGGGATGAATGCCACTTCTAGCCTGTTTTTCCTGCA
1401 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1500
                                GAACGCCACGGGTCAACCACTGGGACTTCCACCCCTTGTTCCTCGTCTCAGGACCTCGACGTCAAACCCCTACTTACGGTGAAGATCGGACAAAAAGGACGT
LAMP1 > C G A Q L V T L K V G N K S R V L E L Q F G M N A T S S L F F L Q

                                Ear1
                                |
                                AGGAGTTCAGTTGAACATGACTCTTCCCTGATGCCATAGAGCCCACGTTACAGCACCTCCAACTATTCCCTGAAAGCTCTTCAGGCCAGTGTCCGGCAACTCA
1501 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1600
                                TCCTCAAGTCAACTTGTACTGAGAAGGACTACGGTATCTCGGGTGAAGTCGTGGAGGTTGATAAGGGACTTTTCGAGAAGTCCGGTCACAGCCGTTGAGT
LAMP1 > G V Q L N M T L P D A I E P T F S T S N Y S L K A L Q A S V G N S

                                Bcg1b  BseR1      Eco57  Bbs1      Bcg1a
                                |          |          |          |          |
                                TACAAGTGCAACAGTGAGGAGCACATCTTTGTGTCAGCAAGGCGCTCGCCCTCAATGTCTTTCAGCGTGCAAGTCCAGGCTTTCAGGGTAGAAAGTGACAGGT
1601 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1700
                                ATGTTACAGTTGTCACTCCTCGTGTAGAAAACAGTCGTTCCGCGAGCGGGAGTTACAGAAGTCGCACGTTTCAGGTCGGAAAGTCCCATCTTTCACTGTCCA
LAMP1 > Y K C N S E E H I F V S K A L A L N V F S V Q V Q A F R V E S D R F

                                Ear1
                                SpAcc|      BsrG1      BsrD1  BstX1  PspOM      BtgZ1
                                ||          |          |          |          |          |
                                TTGGGTCTGTGGAAGAGTGTGTACAGGACGGTAACAACATGCTGATCCCCATTGCTGTGGGCGGGGCCCTGGCAGGGCTGGTCCCTCATCGTCCTCATCGC
1701 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1800
                                AACCCAGACACCTTCTCACACATGTCCTGCCATTGTTGTACGACTAGGGGTAACGACACCCCGCCCGGGACCGTCCCGACCCAGGAGTAGCAGGAGTAGCG
LAMP1 > G S V E E C V Q D G N N M L I P I A V G G A L A G L V L I V L I A

                                Ear1
                                |
                                CTACCTCATCGGCAGGAAGAGGAGTCACGCGGGCTATCAGACCATCTCGGAATTCGGCTCCACCGGCTCCACCGGCTCCACCGGCGGGATCCACCGGTC
1801 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1900
                                GATGGAGTAGCCGTCTTCTCCTCAGTGCGCCGATAGTCTGGTAGAGCCCTTAAGCCGAGGTGGCCGAGGTGGCCGAGGTGGCCGCGCCTAGGTGGCCAG
LAMP1 > Y L I G R K R S H A G Y Q T I S E F G S T G S T G S T G A D P P V

                                Ear1      BseR1      EcoR1      SgrA1  BamH1  Age1
                                |          |          |          |          |          |
                                CTACCTCATCGGCAGGAAGAGGAGTCACGCGGGCTATCAGACCATCTCGGAATTCGGCTCCACCGGCTCCACCGGCTCCACCGGCGGGATCCACCGGTC
1801 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1900
                                GATGGAGTAGCCGTCTTCTCCTCAGTGCGCCGATAGTCTGGTAGAGCCCTTAAGCCGAGGTGGCCGAGGTGGCCGAGGTGGCCGCGCCTAGGTGGCCAG
LAMP1 > Y L I G R K R S H A G Y Q T I S E F G S T G S T G S T G A D P P V

```



```

                                     PsiI
                                     |
2901  TTAAATCAGCTCATTTTTTAACCAATAGGCCGAAATCGGCAAAATCCCTTATAAATCAAAAGAATAGACCGAGATAGGGTTGAGTGTGTTCCAGTTTGG
      |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 3000
      AATTTAGTCGAGTAAAAAATTGGTTATCCGGCTTTAGCCGTTTTAGGGAATATTTAGTTTTCTTATCTGGCTCTATCCCAACTCACAACAAGGTCAAACC

                                     BsaXb          DrdI          BsaXa          BtgZ1
                                     |             |             |             |
3001  AACAAAGAGTCCACTATTAAAGAACGTGGACTCCAACGTCAAAGGGCGAAAAACCGTCTATCAGGGCGATGGCCCACTACGTGAACCATCACCTAATCAA
      |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 3100
      TTGTTCTCAGGTGATAATTTCTTGACCTGAGGTTGCAGTTTCCCGCTTTTTGGCAGATAGTCCCGCTACCGGGTGATGCACTTGGTAGTGGGATTAGTT

                                     SpAcc          NaeI
                                     |             |
3101  GTTTTTTGGGGTCGAGGTGCCGTAAAGCACTAAATCGGAACCCCTAAAGGGAGCCCCGATTTAGAGCTTGACGGGGAAAGCCGGCGAACGTGGCGAGAAA
      |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 3200
      CAAAAAACCCAGCTCCACGGCATTTCGTGATTTAGCCTTGGGATTTCCCTCGGGGGCTAAATCTCGAACTGCCCTTTTCGGCCGCTTGCACCGCTCTTT

                                     BsrB1
                                     |
3201  GGAAGGAAGAAAGCGAAAGGAGCGGGCGCTAGGGCGCTGGCAAGTGTAGCGGTACGCTGCGCGTAACCACCACACCCGCCGCGCTTAATGCGCCGCTA
      |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 3300
      CCTTCCCTTCTTTCGCTTTCCTCGCCCGCATCCCGCGACCGTTCACATCGCCAGTGCGACGCGCATTGGTGGTGTGGGCGGCGGAATTACGCGGCGAT

                                     polyA          BciV1
                                     |             |
3301  CAGGGCGCGTCAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTCTAAATACATTCAAATATGTATCCGCTCATGAGACAAT
      |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 3400
      GTCCCGCGCAGTCCACCGTGAAAAGCCCCCTTACACGCGCCTTGGGGATAAAACAAATAAAAAGATTTATGTAAGTTTATACATAGGCGAGTACTCTGTTA

```



```

                                     Nar1
                                     Kas1|
                                     ||
          Bmr1
          |
GACTGGGCACAACAGACAATCGGCTGCTCTGATGCCGCGTGTTCGGCTGTCAGCGCAGGGGCGCCCGGTTCTTTTTGTCAAGACCGACCTGTCCGGTG
3901  |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 4000
CTGACCCGTGTTGTCTGTTAGCCGACGAGACTACGGCGGCACAAGGCCGACAGTCGCGTCCCCGCGGGCCAAGAAAAACAGTTCTGGCTGGACAGGCCAC

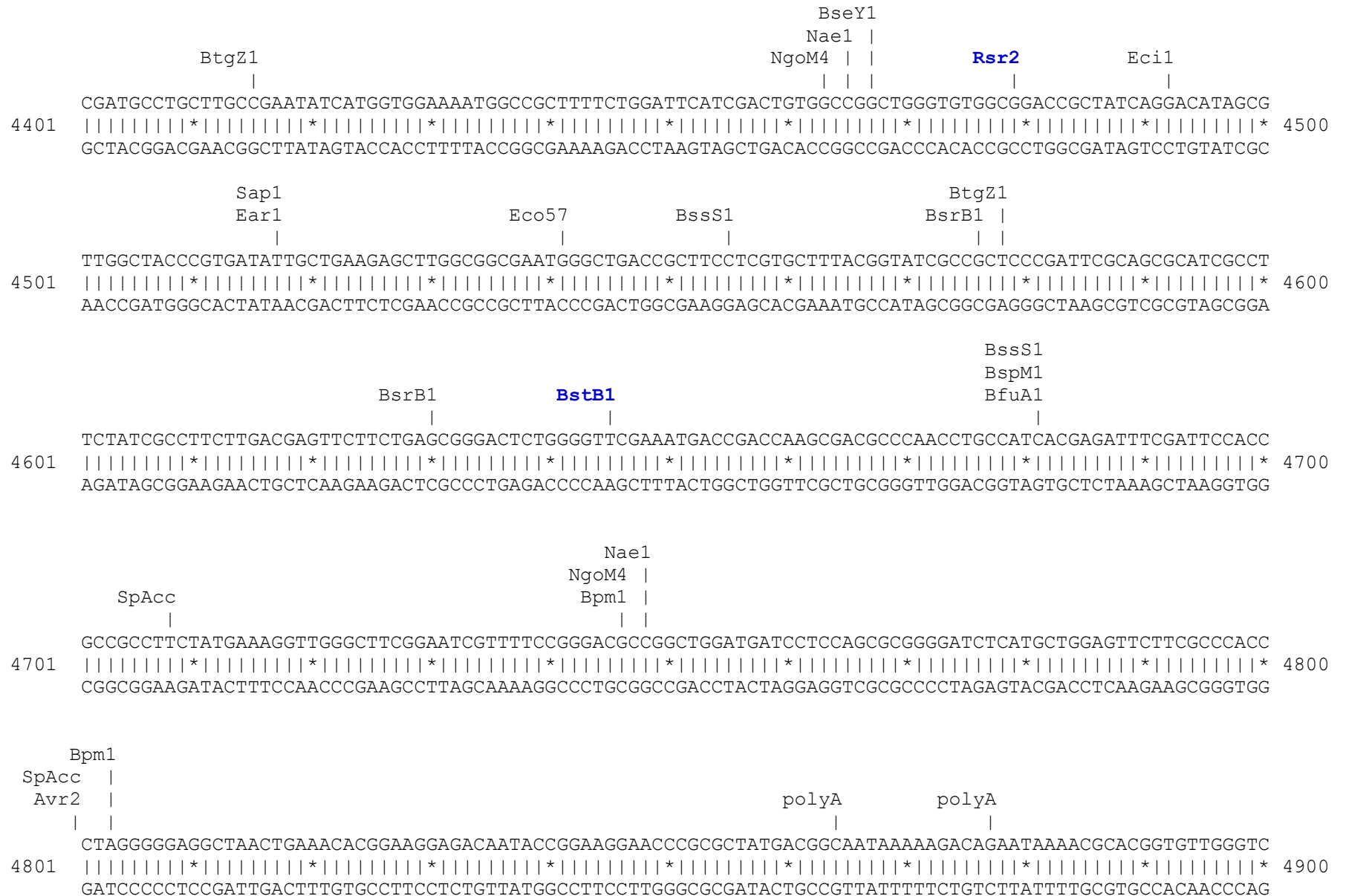
                                     Msc1
                                     |
                                     Pvu2
                                     |
                                     Fsp1
                                     |
                                     PflF1
                                     |
CCCTGAATGAACTGCAAGACGAGGCAGCGGGCTATCGTGGCTGGCCACGACGGGCGTTTCCTTGCGCAGCTGTGCTCGACGTTGTCACTGAAGCGGGAAG
4001  |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 4100
GGGACTTACTTGACGTTCTGCTCCGTGCGCCGATAGCACCACCGGTGCTGCCCAGGAACGCGTCGACACGAGCTGCAACAGTGACTTCGCCCTTC

          Eco57
          |
          SpDon
          |
          BciV1
          |
          BsrD1
          |
GGACTGGCTGCTATTGGGCGAAGTGCCGGGGCAGGATCTCCTGTCTACCTTGCTCCTGCCGAGAAAGTATCCATCATGGCTGATGCAATGCGGCGG
4101  |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 4200
CCTGACCGACGATAACCCGCTTACCGCCCCGTCCTAGAGGACAGTAGAGTGGAACGAGGACGGCTCTTTCATAGGTAGTACCGACTACGTTACGCCGCC

                                     BtgZ1
                                     |
          BspM1
          |
          BfuA1
          |
          |
CTGCATACGCTTGATCCGGCTACCTGCCCATTCGACCACCAAGCGAAACATCGCATCGAGCGAGCACGTACTCGGATGGAAGCCGGTCTTGTTCGATCAGG
4201  |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 4300
GACGTATGCGAACTAGGCCGATGGACGGGTAAGCTGGTGGTTCGCTTTGTAGCGTAGCTCGCTCGTGCATGAGCCTACCTTCGGCCAGAACAGCTAGTCC

          Sap1
          |
          Ear1
          |
          BpuE1
          |
          Sph1
          |
          Nco1
          |
ATGATCTGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAACACTGTTCCGCCAGGCTCAAGGCGAGCATGCCCGACGGCGAGGATCTCGTCGTGACCCATGG
4301  |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 4400
TACTAGACCTGCTTCTCGTAGTCCCCGAGCGCGGTTCGGCTTGACAAGCGGTCCGAGTTCGCTCGTACGGGCTGCCGCTCCTAGAGCAGCACTGGGTACC

```



Bsa1
|
 4901 GTTTGTT CATAAACGCGGGGTTCCGGTCCCAGGGCTGGCACTCTGTCGATACCCACCGAGACCCATTGGGGCCAATACGCCCGGTTTCTTCCTTTTCC 5000
 |||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*|||
 CAAACAAGTATTTGCGCCCCAAGCCAGGGTCCCACCCTGAGACAGCTATGGGGTGGCTCTGGGGTAACCCCGTATGCGGGCGCAAAGAAGGAAAAGG

BstAP
AlwN1 Bsu36
| |
 5001 CCACCCACCCCAAGTTCGGGTGAAGGCCAGGGCTCGCAGCCAACGTCGGGGCGGCAGGCCCTGCCATAGCCTCAGGTACTCATATATACTTTAGA 5100
 |||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*|||
 GGTGGGGTGGGGGTTC AAGCCACTTCCGGTCCCAGCGTCGGTTGCAGCCCCCGCTCCGGGACGGTATCGGAGTCCAATGAGTATATATGAAATCT

Dra1 Dra1 BspH1
| | |
 5101 TTGATTTAAAAC TTTTCAATTTTAAATTTAAAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAAAATCCCTTAACGTGAGTTTTCGTTCCACTG 5200
 |||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*|||
 AACTAAATTTTGAAGTAAAATTAATTTTCCTAGATCCACTTCTAGGAAAAACTATTAGAGTACTGGTTTTAGGGAATTGCACTCAAAGCAAGGTGAC

BpuE1
|
 5201 AGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAACAAAAAACCCGCTACCAGCG 5300
 |||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*|||
 TCGCAGTCTGGGCATCTTTCTAGTTTCTTAGAAGA ACTCTAGGAAAAAAGACGCGCATTAGACGACGAACGTTTGTTTTTTTGGTGCGGATGGTTCGC

Eco57 SpAcc
| |
 5301 GTGGTTTGT TTTGCCGATCAAGAGCTACCAACTCTTTTTTCGAAGGTA ACTGGCTT CAGCAGAGCGCAGATA CCAAATACTGTCCTTCTAGTGTAGCCGT 5400
 |||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*|||
 CACCAAACAAACGGCCTAGTTCCTCGATGGTTGAGAAAAGGCTTCCATTGACCGAAGTCGTCTCGCGTCTATGGTTTATGACAGGAAGATCACATCGGCA

AlwN1 BpuE1
| |
 5401 AGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGCCGATAAGTCGTGTCT 5500
 |||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*|||
 TCAATCCGGTGGTGAAGTTC TTTGAGACATCGTGGCGGATGTATGGAGCGAGACGATTAGGACAATGGTCACCGACGACGGTCACCGCTATT CAGCACAGA

Found:

| | | | | | | | | | | | | | |
|-------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Aat2 | Afe1 | Afl2 | Age1 | Ale1 | AlwN1 | Apa1 | Apal1 | Ase1 | Avr2 | BamH1 | Bbs1 | Bcg1a | Bcg1b |
| BciV1 | BfrB1 | BfuA1 | Bgl1 | Bgl2 | Bmr1 | Bpm1 | BpuE1 | Bsa1 | BsaB1 | BsaXa | BsaXb | BseR1 | BseY1 |
| Bsm1 | BspH1 | BspLU | BspM1 | BsrB1 | BsrD1 | BsrG1 | BssS1 | BstAP | BstB1 | BstE2 | BstX1 | Bsu36 | BtgZ1 |
| Bts1 | Clal | Dra1 | Dra3 | Drd1 | Eag1 | Ear1 | Eci1 | Eco57 | EcoR1 | Fsp1 | Hpa1 | Kas1 | Mfe1 |
| Msc1 | Nae1 | Nar1 | Nco1 | Nde1 | NgoM4 | Nhe1 | Not1 | Nsi1 | PflF1 | PflM1 | polyA | PshA1 | Psi1 |
| PspOM | Pst1 | Pvu2 | Rsr2 | Sap1 | SexA1 | Sfi1 | SgrA1 | Sma1 | SnaB1 | SpAcc | SpDon | Sph1 | Ssp1 |
| Stu1 | Xba1 | Xho1 | | | | | | | | | | | |

Unique:

| | | | | | | | | | | | | | |
|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Afe1 | Afl2 | Age1 | Ase1 | BamH1 | Bcg1a | Bcg1b | Bgl2 | BstB1 | BstE2 | BstX1 | Clal | EcoR1 | Fsp1 |
| Hpa1 | Mfe1 | Nde1 | Nhe1 | Not1 | PflF1 | PflM1 | PshA1 | Rsr2 | SexA1 | Sfi1 | SgrA1 | Sma1 | SnaB1 |
| Xba1 | Xho1 | | | | | | | | | | | | |

Not found:

| | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| Aar1 | Acc65 | Acc1 | Ahd1 | Asc1 | AsiS1 | Baela | Baelb | BbvC1 | Bcl1 | Blp1 | BmgB1 | Bpu10 | Bsg1 |
| BsiW1 | BsmB1 | BspE1 | BssH2 | BstZ1 | BxatB | BxatL | BxatR | BxatP | _Chi | Ecl2 | EcoK | EcoN1 | EcoRV |
| FCatB | FCatL | FCatR | FCatP | ScFRT | Fse1 | FspA1 | Hind3 | I_Ceu | Kpn1 | loxP | Mlu1 | Nru1 | Pac1 |
| Pme1 | Pml1 | Pvu1 | R4atB | R4atL | R4atP | R4atR | Sac1 | _Sac2 | Sall | SanD1 | Sbf1 | Sca1 | Sgf1 |
| Spe1 | Srf1 | Swa1 | T3RNA | T7RNA | T7Ter | PISce | Xcm1 | Xmn1 | | | | | |

Excluded by site complexity:

| | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Acc1 | Acil | Afl3 | Alu1 | Alw1 | Apo1 | Ava1 | Ava2 | Ban1 | Ban2 | Bbv1 | BceA1 | Bfa1 | Bme15 |
| BsaA1 | BsaH1 | BsaJ1 | BsaW1 | BseM2 | BsiE1 | BsiH1 | Bs11 | 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 | | | | | | | | | | | | | |