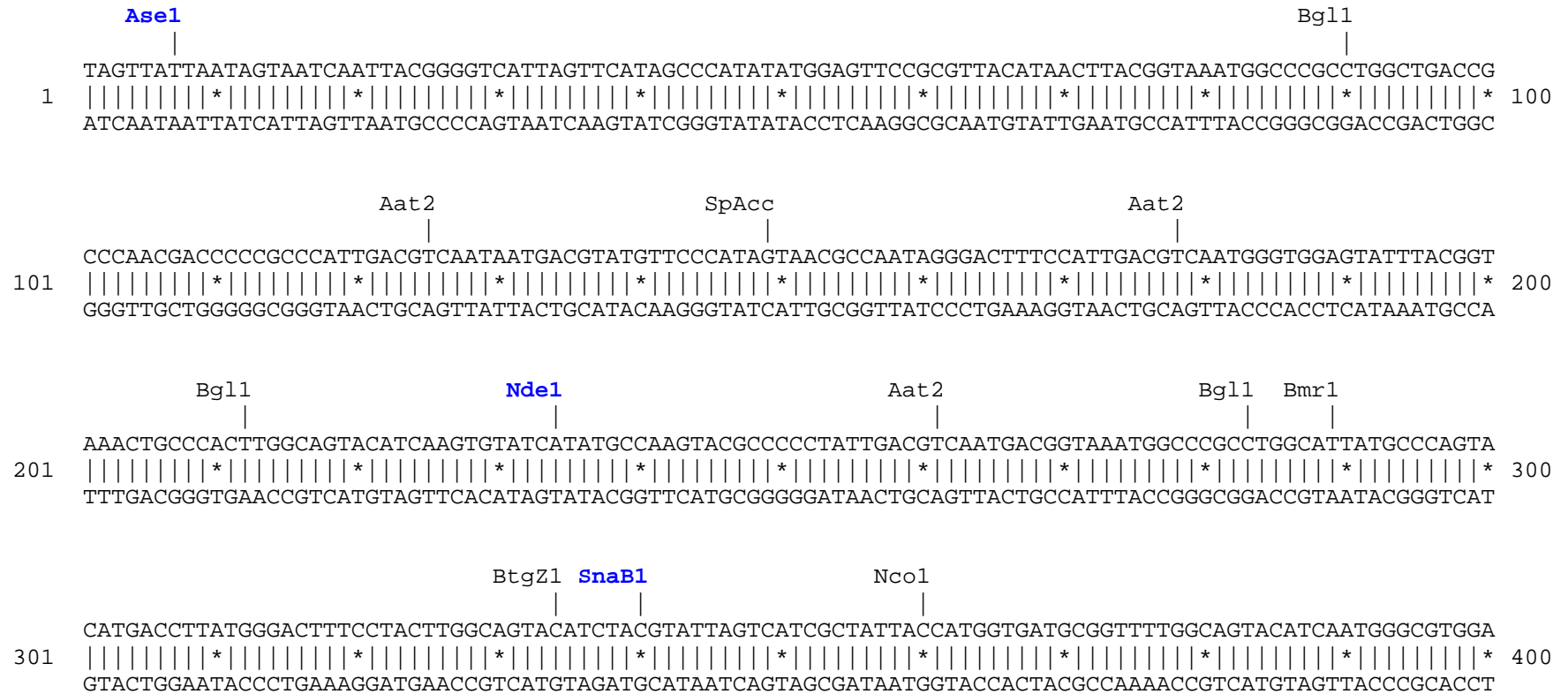


pFusionRed-actinin vector restriction map

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).

FusionRed amino acids are shown in red, alpha-actinin amino acids are shown in green, linker amino acids are shown in black.



Aat2Eci1

401 TAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAGTTTGTGTTTTGGCACCAAATCAACGGGACTTTCCAAAATGTCGTA
 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|| 500
 ATCGCCAAACTGAGTGCCCTAAAGGTTTCAGAGGTGGGGTAACTGCAGTTACCCTCAAACAAAACCGTGGTTTTAGTTGCCCTGAAAGGTTTTACAGCAT

Nhe1 Afe1

501 ACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTGGTTTTAGTGAACCGTCAGATCCGCTAGCGCTA
 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|| 600
 TGTGAGGGCGGGTAACTGCGTTTTACCCGCCATCCGCACATGCCACCCTCCAGATATATTCGTCTCGACCAAATCACTTGGCAGTCTAGGCGATCGCGAT

Hind3

Xho1

BpuE1 Bgl2 Sac1 |
 | | | | |

Ear1 Xcm1 Bmr1

601 CCGGACTCAGATCTCGAGCTCAAGCTTCGCACCATCATGGACCATTATGATTCTCAGCAAACCAACGATTACATGCAGCCAGAAGAGGACTGGGACCGGG
 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|| 700
 GGCTGAGTCTAGAGCTCGAGTTTGAAGCGTGGTAGTACCTGGTAATACTAAGAGTCGTTTTGGTTGCTAATGTACGTCGGTCTTCTCTGACCCTGGCCC

Actinin > M D H Y D S Q Q T N D Y M Q P E E D W D R D

EcoN1

BspM1 SpAcc BspE1 | Ear1
 | | | | |

701 ACCTGCTCCTGGACCCGGCCTGGGAGAAGCAGCAGAGAAAGACATTACGGCATGGTGTAACCTCCCACCTCCGGAAGGCGGGGACACAGATCGAGAACAT
 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|| 800
 TGGACGAGGACCTGGGCGGACCCTCTTCGTCTCTTTCTGTAAGTGCCGTACCACATTGAGGGTGGAGGCCTTCCGCCCTGTGTCTAGCTCTTGTA

Actinin > L L L D P A W E K Q Q R K T F T A W C N S H L R K A G T Q I E N I

Eco57 SpDon Bpm1 Msc1 BsaXb ApaL1

801 CGAAGAGGACTTCCGGGATGGCCTGAAGCTCATGCTGCTGCTGGAGGTCATCTCAGGTGAACGCTTGGCCAAGCCAGAGCGAGGCAAGATGAGAGTGCAC
 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|| 900
 GCTTCTCTGAAGGCCCTACCGACTTCGAGTACGACGACACCTCCAGTAGAGTCCACTTGCGAACCGGTTTCGGTCTCGCTCCGTTCTACTCTCACGTG

Actinin > E E D F R D G L K L M L L L E V I S G E R L A K P E R G K M R V H

Bpm1 Eci1 Bbs1 SpAcc Msc1 Xcm1 Eci1
GGAGACAGCAGCCAATCGCATCTGCAAGGTGTTGGCCGTCAACCAGGAGAACGAGCAGCTTATGGAAGACTACGAGAAGCTGGCCAGTGATCTGTTGGAG
1401 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1500
CCTCTGTCGTCGGTTAGCGTAGACGTTCCACAACCGGCAGTTGGTCCTCTTGCTCGTGAATAACCTTCTGATGCTCTTCGACCGGTCACTAGACAACCTC
Actinin > E T A A N R I C K V L A V N Q E N E Q L M E D Y E K L A S D L L E

BstAP Sph1 Nar1 Kas1
BamH1 Bpm1 BfrB1 AlwN1 Bsg1 Bpm1
TGGATCCGCCGACAAATCCCGTGGCTGGAGAACCAGGTTGCCCGGAGAACACCATGCATGCCATGCAACAGAAGCTGGAGGACTTCCGGGACTACCGGCGCC
1501 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1600
ACCTAGGCGGCGTGTAGGGCACCGACCTCTTGCCCCACGGGCTCTTGTGGTACGTACGGTACGTTGTCTTCGACCTCCTGAAGGCCCTGATGGCCGCGG
Actinin > W I R R T I P W L E N R V P E N T M H A M Q Q K L E D F R D Y R R L

Bsg1 Pst1 Blp1 Pvu2 Bpm1
TGACAAGCCGCCCAAGGTGCAGGAGAAGTGCAGCTGGAGATCAACTTCAACACGCTGCAGACCAAGCTGCGGCTCAGCAACCGGCCTGCCTTCATGCC
1601 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1700
ACGTGTTCCGGCGGGTTCACGTCTCTTCACGGTTCGACCTCTAGTTGAAGTTGTGCGACGTCTGGTTTCGACGCCGAGTCGTTGGCCGGACGGAAGTACGG
Actinin > H K P P K V Q E K C Q L E I N F N T L Q T K L R L S N R P A F M P

BspM1 Bpm1 Bsa1 Aar1 EcoN1 SpAcc BseR1 BspE1
CTCTGAGGGCAGGATGGTCTCGGACATCAACAATGCCTGGGGCTGCCTGGAGCAGGTGGAGAAGGGCTATGAGGAGTGGTTGCTGAATGAGATCCGGAGG
1701 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1800
GAGACTCCCGTCCCTACCAGAGCCTGTAGTTGTTACGGACCCCCGACGGACCTCGTCCACCTCTTCCCATACTCCTCACCAACGACTTACTCTAGGCCTCC
Actinin > S E G R M V S D I N N A W G C L E Q V E K G Y E E W L L N E I R R

Bpm1 StuI BssS1 StuI Bsa1
CTGGAGCGACTGGACCACCTGGCAGAGAAGTTCCGGCAGAAGGCCTCCATCCACGAGGCCTGGACTGACGGCAAAGAGGCCATGCTGCGACAGAAGGACT
1801 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1900
GACCTCGCTGACCTGGTGGACCGTCTCTTCAAGGCCGTCTTCCGGAGGTAGGTGCTCCGGACCTGACTGCCGTTTCTCCGGTACGACGCTGTCTTCCTGA
Actinin > L E R L D H L A E K F R Q K A S I H E A W T D G K E A M L R Q K D Y

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                BpuE1      StuI      StuI      BtgZ1
                |         |         |         |
1901  ATGAGACCGCCACCCTCTCGGAGATCAAGGCCTTGCTCAAGAAGCATGAGGCCTTCGAGAGTGACCTGGCTGCCCACCAGGACCGTGTGGAGCAGATTGC 2000
      |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*
      TACTCTGGCGGTGGGAGAGCCTCTAGTTCCGGAACGAGTTCTTCGTA CTCCGGAAGCTCTCACTGGACCGACGGGTGGTCCTGGCACACCTCGTCTAACG
Actinin >  E T A T L S E I K A L L K K H E A F E S D L A A H Q D R V E Q I A

                SacI      Ecl2      Bmr1      Dra3      Bgl2      PspOM
                |         |         |         |         |         |
2001  CGCCATCGCACAGGAGCTCAATGAGCTGGACTATTATGACTCACCCAGTGTCAACGCCCCGTTGCCAAAAGATCTGTGACCAGTGGGACAATCTGGGGGCC 2100
      |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*
      GCGGTAGCGTGTCTCGAGTTACTCGACCTGATAATACTGAGTGGGTACAGTTGCGGGCAACGGTTTTCTAGACACTGGTCACCCTGTTAGACCCCGG
Actinin >  A I A Q E L N E L D Y Y D S P S V N A R C Q K I C D Q W D N L G A

                Rsr2      Bpm1      Bpm1      Bpm1      Bgl1
                |         |         |         |         |
2101  CTAACTCAGAAGCGAAGGGAAGCTCTGGAGCGGACCGAGAAACTGCTGGAGACCATTGACCAGCTGTACTTTGGAGTATGCCAAGCGGGCTGCACCCTTCA 2200
      |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*
      GATTGAGTCTTTCGCTTCCCTTCGAGACCTCGCCTGGCTCTTTGACGACCTCTGGTAACTGGTTCGACATGAACCTCATAACGTTTCGCCCCGACGTGGGAAGT
Actinin >  L T Q K R R E A L E R T E K L L E T I D Q L Y L E Y A K R A A P F N

                BspM1      NcoI      Pst1      ApaL1      BseR1      AlwN1
                |         |         |         |         |         |
2201  ACAACTGGATGGAGGGGGCCATGGAGGACCTGCAGGACACCTTCATTGTGCACACCATTGAGGAGATCCAGGGACTGACCACAGCCCATGAGCAGTTCAA 2300
      |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*
      TGTGACCTACCTCCCCCGGTACCTCCTGGACGTCTGTGGAAGTAACACGTGTGGTAACTCCTCTAGGTCCCTGACTGGTGTTCGGGTACTCGTCAAGTT
Actinin >  N W M E G A M E D L Q D T F I V H T I E E I Q G L T T A H E Q F K

                MscI      BmgB1
                |         |
2301  GGCCACCCTCCCTGATGCCGACAAGGAGCGCCTGGCCATCCTGGGCATCCACAATGAGGTGTCCAAGATTGTCCAGACCTACCACGTCAATATGGCGGGC 2400
      |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*
      CCGGTGGGAGGGACTACGGCTGTTCTCGCGGACCGGTAGGACCCGTAGGTGTTACTCCACAGGTTCTAACAGGTCTGGATGGTGCAGTTATAACGCCCG
Actinin >  A T L P D A D K E R L A I L G I H N E V S K I V Q T Y H V N M A G

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BSu36 Pml1 Pvu2 BstAP

```
ACCAACCCCTACACAACCATCACGCCTCAGGAGATCAATGGCAAATGGGACCACGTGCGGCAGCTGGTGCCTCGGAGGGACCAAGCTCTGACGGAGGAGC
2401 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 2500
TGGTTGGGGATGTGTTGGTAGTGC GGAGTCCTCTAGTTACCGTTTACCCTGGTGCACGCCGTGCGACCACGGAGCCTCCCTGGTTCGAGACTGCCTCCTCG
Actinin > T N P Y T T I T P Q E I N G K W D H V R Q L V P R R D Q A L T E E H
```

Sph1 BseR1 PspOM BamH1 Apa1

```
ATGCCCCGACAGCAGCACAATGAGAGGCTACGCAAGCAGTTTGGAGCCCAGGCCAATGTCATCGGGCCCTGGATCCAGACCAAGATGGAGGAGATCGGGAG
2501 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 2600
TACGGGCTGTCGTCGTGTTACTCTCCGATGCGTTCGTCAAACCTCGGGTCCGGTTACAGTAGCCCGGGACCTAGGTCTGGTTCTACCTCCTCTAGCCCTC
Actinin > A R Q Q H N E R L R K Q F G A Q A N V I G P W I Q T K M E E I G R
```

BseR1 SanD1 Nsil BfrB1 BspM1 Aar1 Sap1 Ear1 Bcl1 Pvu2

```
GATCTCCATTGAGATGCATGGGACCCTGGAGGACCAGCTCAGCCACCTGCGGCAGTATGAGAAGAGCATCGTCAACTACAAGCCAAAGATTGATCAGCTG
2601 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 2700
CTAGAGGTAACTCTACGTACCCTGGGACCTCCTGGTTCGAGTCGGTGGACGCCGTGTCATACTCTTCTCGTAGCAGTTGATGTTTCGGTTTCTAACTAGTCGAC
Actinin > I S I E M H G T L E D Q L S H L R Q Y E K S I V N Y K P K I D Q L
```

_Chi Bpm1 Xcm1 Nco1 Ale1 BseY1 BtgZ1 Pvu2

```
GAGGGCGACCACCAGCTCATCCAGGAGGCGCTCATCTTCGACAACAAGCACACCAACTACACCATGGAGCACATCCGTGTGGGCTGGGAGCAGCTGCTCA
2701 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 2800
CTCCCGCTGGTGGTTCGAGTAGGTCTCCGCGAGTAGAAGCTGTTGTTTCGTGTGGTTGATGTGGTACCTCGTGTAGGCACACCCGACCCTCGTCGACGAGT
Actinin > E G D H Q L I Q E A L I F D N K H T N Y T M E H I R V G W E Q L L T
```

SpDon AlwN1 Sma1 Xmn1

2801 CCACCATCGCCAGGACCATCAATGAGGTAGAGAACCAGATCCTGACCCGGGATGCCAAGGGCATCAGCCAGGAGCAGATGAATGAGTTCCGGGCCTCCTT 2900
|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*
GGTGGTAGCGGTCTGTAGTTACTCCATCTCTTGGTCTAGGACTGGGCCCTACGGTTCCTAGTTCGGTTCCTCGTCTACTTACTCAAGGCCCGGAGGAA

Actinin > **T I A R T I N E V E N Q I L T R D A K G I S Q E Q M N E F R A S F**

SanD1 Bmr1 BseR1

2901 CAACCACTTTGACCCGGGATCACTCCGGCACACTGGGTCCCCGAGGAGTTCAAAGCCTGCCTCATCAGCTTGGGTATGATATTGGCAACGACCCCCAGGGA 3000
|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*
GTTGGTGAAACTGGCCCTAGTGAGGCCGTGTGACCCAGGGCTCCTCAAGTTTTCGGACGGAGTAGTCGAACCAATACTATAACCGTTGCTGGGGGTCCCT

Actinin > **N H F D R D H S G T L G P E E F K A C L I S L G Y D I G N D P Q G**

BstAP BspH1 BstX1 StuI Ahd1

3001 GAAGCAGAATTTGCCCGCATCATGAGCATTGTGGACCCCAACCGCTGGGGGTAGTGACATTCCAGGCCTTCATTGACTTCATGTCCC GCGAGACAGCCG 3100
|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*
CTTCGTCTTAAACGGGCGTAGTACTCGTAACACCTGGGGTTGGCGGACCCCATCACTGTAAGGTCCGGAAGTAAGTAAGTACAGGGCGCTCTGTCTGGC

Actinin > **E A E F A R I M S I V D P N R L G V V T F Q A F I D F M S R E T A D**

PflF1PflM1 BseY1 NcoI

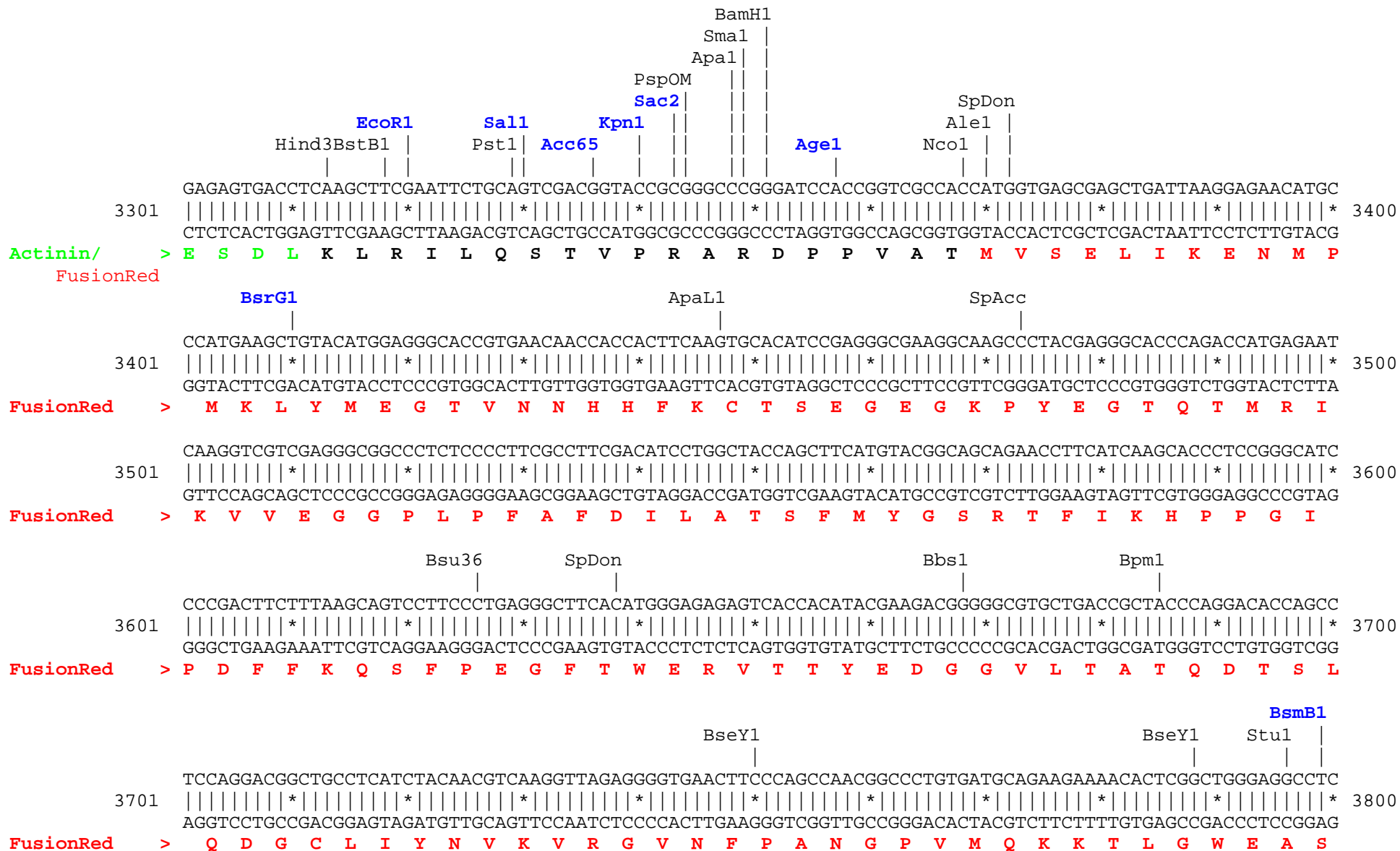
3101 ACACAGATACAGCAGACCAAGTCATGGCTTCCTTCAAGATCCTGGCTGGGGACAAGAACTACATTACCATGGACGAGCTGCGCCGCGAGCTGCCACCCGA 3200
|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*
TGTGTCTATGTCGTCTGGTTCAGTACCGAAGGAAGTTCTAGGACCGACCCCTGTTCTTGTATGTAATGGTACCTGCTCGACGCGGGCGCTCGACGGTGGGCT

Actinin > **T D T A D Q V M A S F K I L A G D K N Y I T M D E L R R E L P P D**

BtgZ1 Scal Ahd1 BspLU BpuE1

3201 CCAGGCTGAGTACTGCATCGCGGGATGGCCCCCTACACCGGCCCGACTCCGTGCCAGGTGCTCTGGACTACATGTCTCCTTCTCCACGGCGCTGTACGGC 3300
|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*|||||||*
GGTCCGACTCATGACGTAGCGCGCCTACCGGGGGATGTGGCCGGGGCTGAGGCACGGTCCACGAGACCTGATGTACAGGAAGAGGTGCCGCGACATGCCG

Actinin > **Q A E Y C I A R M A P Y T G P D S V P G A L D Y M S F S T A L Y G**




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        Af12           SpDon           Ssp1
        |             |               |
AATGTATCTTAAGGCGTAAATTGTAAGCGTTAATATTTTGTAAAATTCGCGTTAAATTTTTGTAAATCAGCTCATTNTTAAACCAATAGGCCGAAATC
4301 | | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | 4400
TTACATAGAATTCCGCATTTAACATTTCGCAATTATAAAAACAATTTTAAGCGCAATTTAAAAACAATTTAGTCGAGTAAAAAATTGGTTATCCGGCTTTAG

               PstI                   BsaXb                                   Drd1
               |                   |                                 |
GGCAAAATCCCTTATAAATCAAAAAGAAATAGACCGAGATAGGGTTGAGTGTGTTCCAGTTTGAACAAGAGTCCACTATTAAAGAACGTGGACTCCAACG
4401 | | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | 4500
CCGTTTTAGGGAATATTTAGTTTTTCTTATCTGGCTCTATCCCAACTCACAAACAAGGTCAAACCTTGTTCTCAGGTGATAATTTCTTGCACCTGAGGTTGC

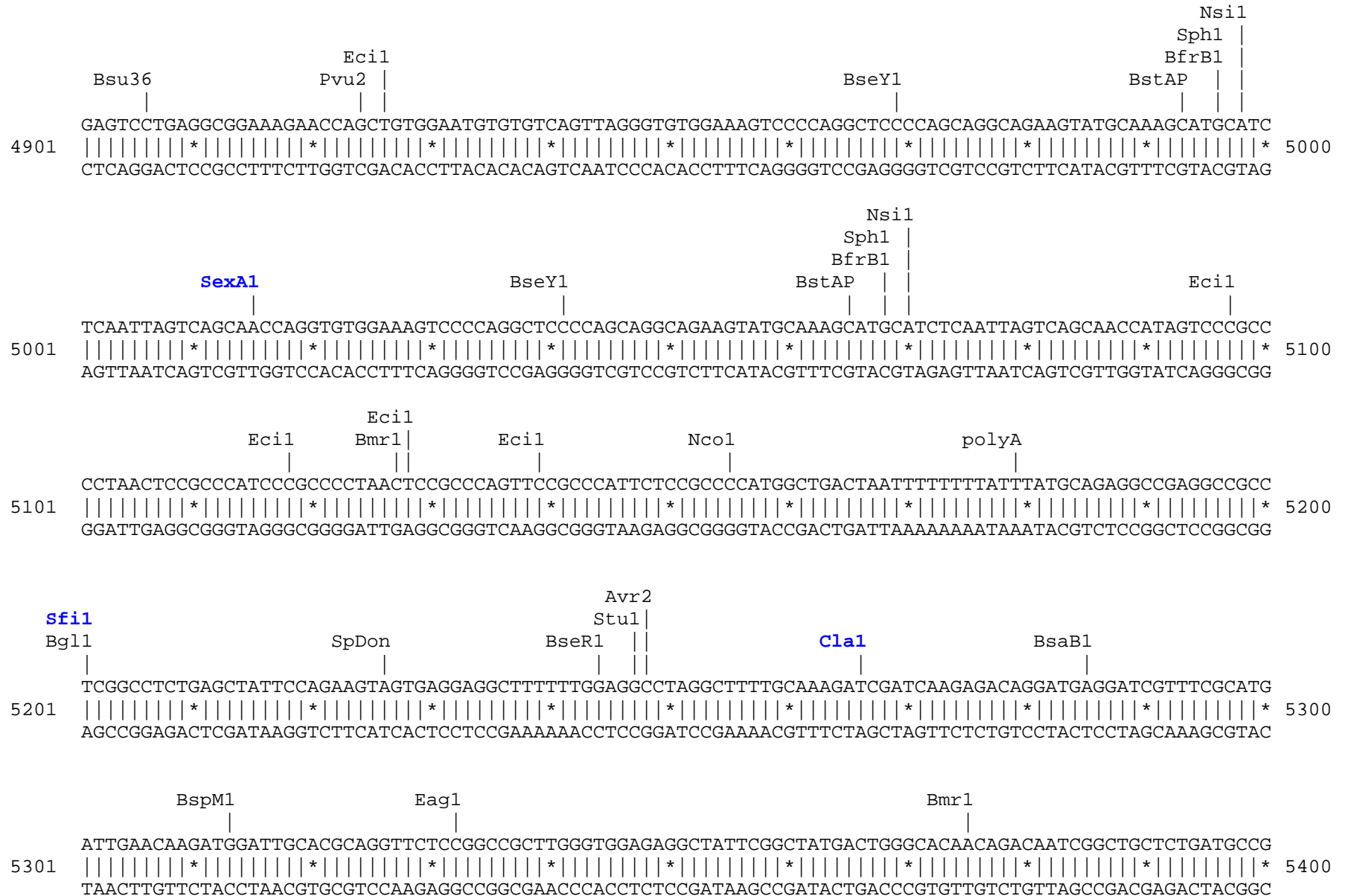
                           BtgZ1
                        Dra3 |
        BsaXa                   |
        |                           |
TCAAAGGGCGAAAAACCGTCTATCAGGGCGATGGCCCACTACGTGAACCATCACCTAATCAAGTTTTTTGGGGTCGAGGTGCCGTAAAGCACTAAATCG
4501 | | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | 4600
AGTTTCCCCTTTTTGGCAGATAGTCCCCTACCGGGTGATGCACCTTGGTAGTGGGATTAGTTCAAAAAACCCCAGCTCCACGGCATTTCGTGATTTAGC

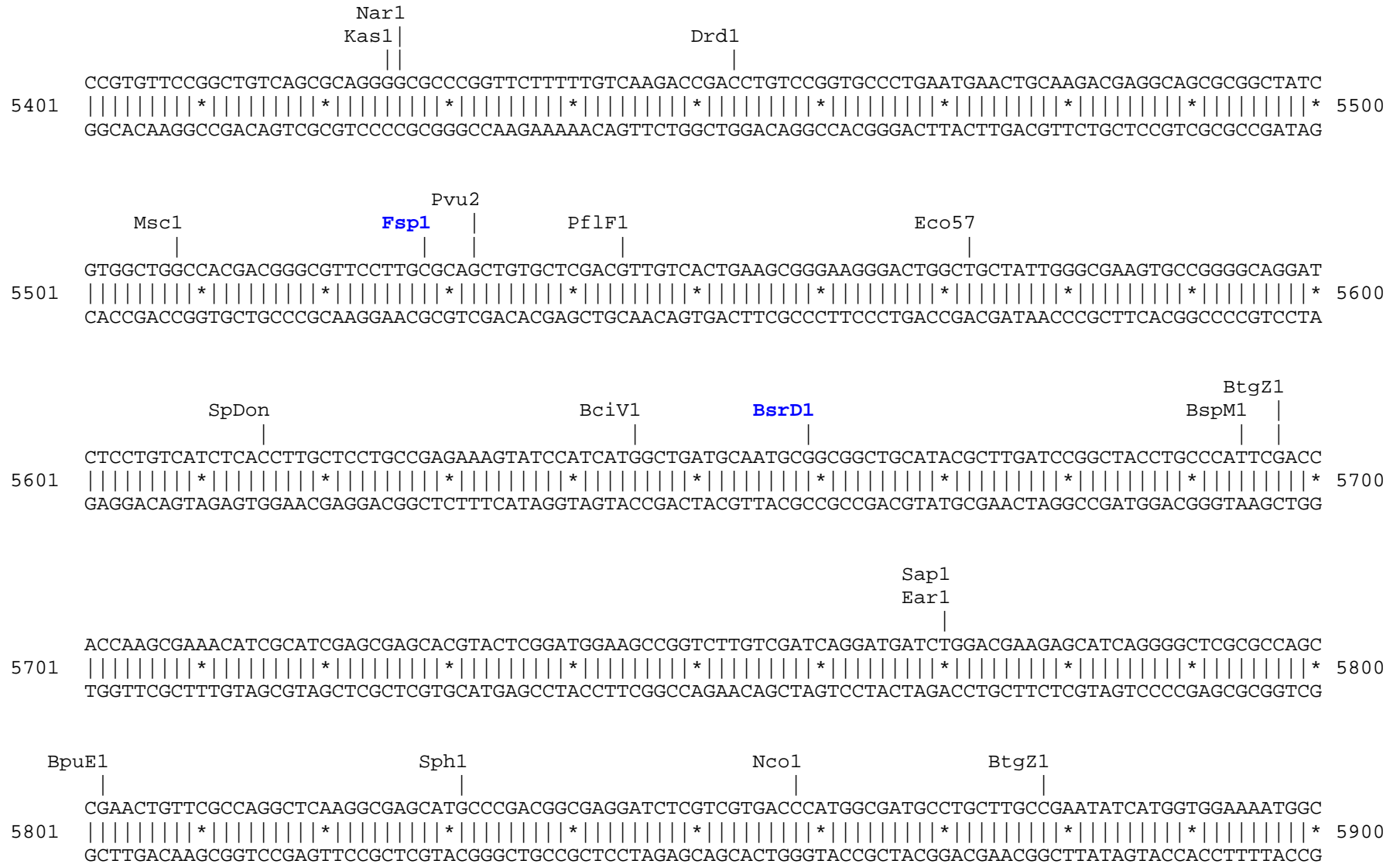
                                       NaeI
                            NgoM4 |
        SpAcc                   |                   BsrB1
        |                           |                       |
GAACCCTAAAGGGAGCCCCGATTTAGAGCTTGACGGGGAAAGCCGGCGAACGTTGGCGAGAAAGGAAGGAAGAAAGCGAAAGGAGCGGGCGCTAGGGCG
4601 | | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | 4700
CTTGGGATTTCCCTCGGGGGCTAAATCTCGAACTGCCCTTTTCGGCCGCTTGCAACCGCTCTTTCCTTCCCTTCTTTCGCTTTCTCTCGCCC GCGATCCCGC

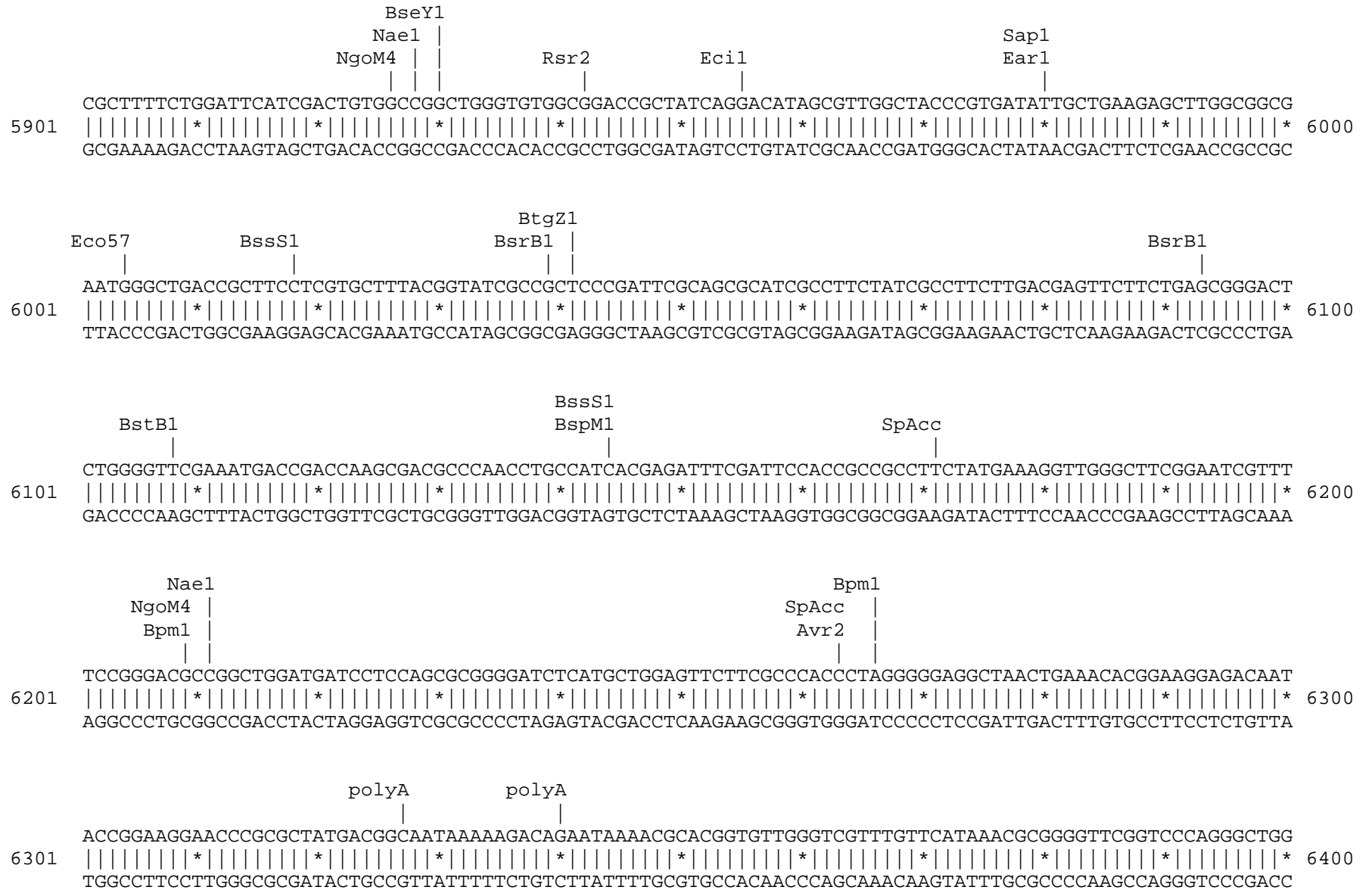
CTGGCAAGTGTAGCGGTCACGCTGCGCGTAACCACCACACCCGCCGCGCTTAATGCGCCGCTACAGGGCGCGTCAGGTGGCACTTTTCGGGGAAATGTGC
4701 | | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | 4800
GACCGTTTACATCGCCAGTGCAGCGGCATTTGGTGGTGTGGGCGGCGCAATTACGCGGCGATGTCCCGCGCAGTCCACCGTGAAAAGCCCTTTTACACG

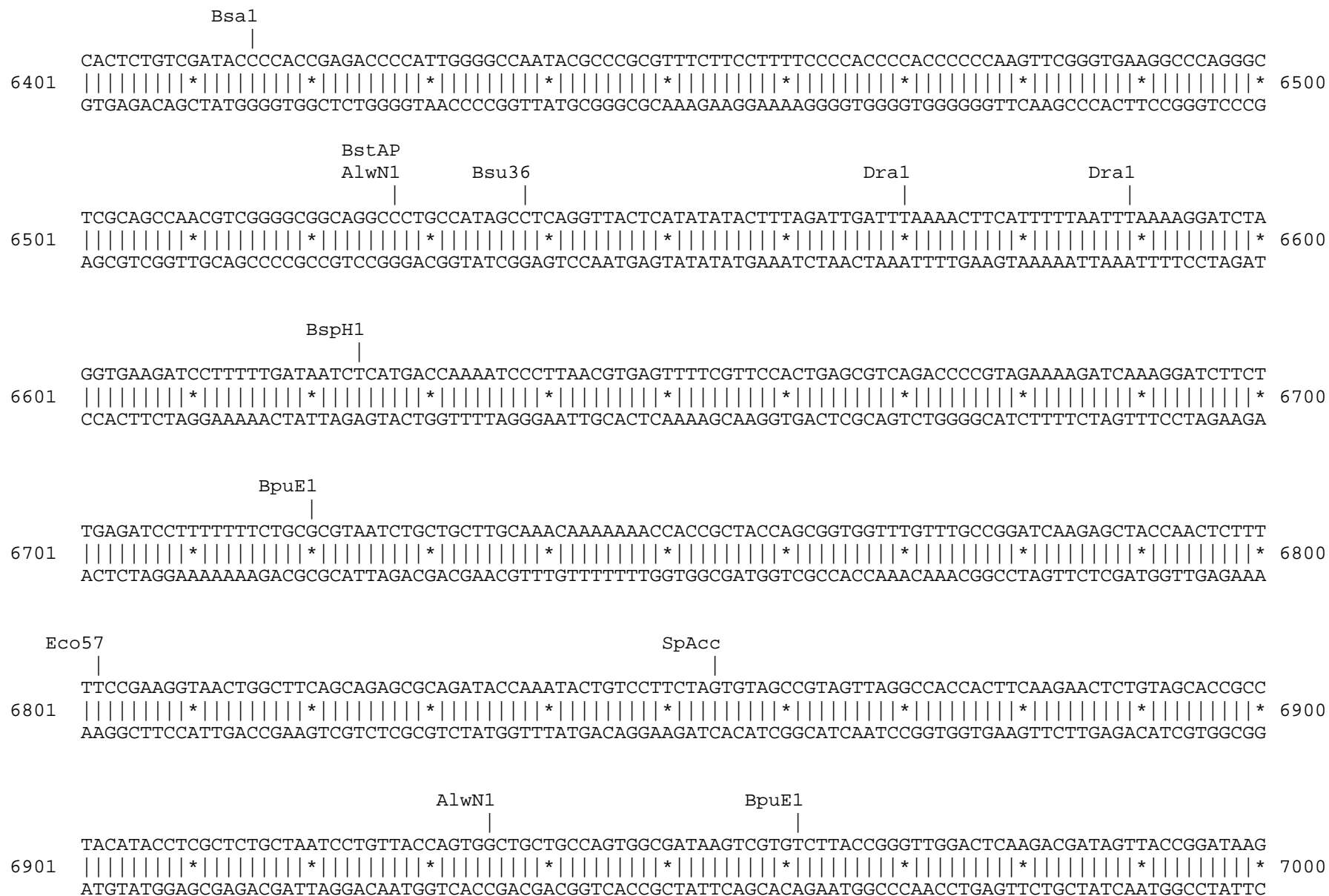
                               BciV1
                             BspH1 |
                           BsrB1 | |                   Ssp1   Ear1
                              | |                       |       |
GCGGAACCCCTATTTGTTTATTTTCTAAATACATTCAAATATGTATCCGCTCATGAGACAATAACCCGTATAAATGCTTCAATAATATTGAAAAAGGAA
4801 | | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | | | | | | | * | 4900
CGCCTTGGGGATAAACAATAAAAAAGATTTATGTAAGTTTATACATAGGCGAGTACTCTGTTATTGGGACTATTTACGAAGTTATTATAAATTTTCTT

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                ApaL1         BseY1                          SpAcc
                |           |                               |
7001 GCGCAGCGGTCTGGGCTGAACGGGGGGTTCGTGCACACAGCCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGAGAAA 7100
      |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*
      CGCGTCGCCAGCCCAGCTTGCCCCCAAGCACGTGTGTCTGGGTGCAACCTCGCTTGTGGATGTGGCTTGACTCTATGGATGTCGCACTCGATACTCTTT
```

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                        BciV1
                    Eci1   |                       BssS1   |
                        |   |                       |   |
7101 GCGCCACGCTTCCCGAAGGGAGAAAAGGCGGACAGGTATCCGGTAAGCGGCAGGGTTCGGAACAGGAGAGCGCACAGGGGAGCTTCCAGGGGGAAACGCCTG 7200
      |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*
      CGCGGTGCGAAGGGCTTCCTCTTTCCGCCTGTCCATAGGCCATTCCCGTCCCAGCCTTGTCTCTCGCGTGTCCCTCGAAGGTCCCCCTTTGCGGAC
```

```
                SpAcc              Drd1             BpuE1                SpAcc         Eci1
                |                   |               |                   |         |         |
7201 GTATCTTTTATAGTCCTGTCTGGGTTTTGCCACCTCTGACTTGAGCGTTCGATTTTTTGTGATGCTCGTCAGGGGGCGGAGCCTATGGAAAAACGCCAGCAAC 7300
      |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*
      CATAGAAATATCAGGACAGCCCAAAGCGGTGGAGACTGAACTCGCAGCTAAAAAACTACGAGCAGTCCCCCGCCTCGGATACCTTTTTTGCGGTCTGTTG
```

```
                    SpDon
                BspLU |                                 BfrB1   |
                    | |                               |   |
7301 GCGGCCTTTTTACGGTTCCTGGCCTTTTGCTGGCCTTTTGCTCACATGTTCTTTCTGCGTTATCCCCTGATTCTGTGGATAACCGTATTACCGCCATGC 7400
      |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*
      CGCCGAAAAATGCCAAGGACCGGAAAACGACCGGAAAACGAGTGTACAAGAAAGGACGCAATAGGGGACTAAGACACCTATTGGCATAATGGCGGTACG
```

```
NsiI
  |
  AT
7401 || 7402
  TA
```

Found:

Aar1	Aat2	Acc65	Afe1	Afl2	Age1	Ahd1	Ale1	AlwN1	Apa1	Apal1	Ase1	Avr2	BamH1
Bbs1	BciV1	Bcl1	BfrB1	Bgl1	Bgl2	Blp1	BmgB1	Bmr1	Bpm1	BpuE1	Bsa1	BsaB1	BsaXa
BsaXb	BseR1	BseY1	Bsg1	Bsm1	BsmB1	BspE1	BspH1	BspLU	BspM1	BsrB1	BsrD1	BsrG1	BssS1
BstAP	BstB1	BstX1	Bsu36	BtgZ1	Bts1	_Chi	Clal	Dra1	Dra3	Drd1	Eag1	Ear1	Ecil
Ecl2	Eco57	EcoN1	EcoR1	Fsp1	Hind3	Hpa1	Kas1	Kpn1	Mfe1	Msc1	Nae1	Nar1	Nco1
Nde1	NgoM4	Nhe1	Not1	Nsi1	PflF1	PflM1	Pml1	polyA	PshA1	Psi1	PspOM	Pst1	Pvu2
Rsr2	Sac1	Sac2	Sall	SanD1	Sap1	Sbf1	Scal	SexA1	Sfi1	Sma1	SnaB1	SpAcc	SpDon
Sph1	Ssp1	Stu1	Xba1	Xcm1	Xho1	Xmn1							

Unique:

Acc65	Afe1	Afl2	Age1	Ase1	Bcl1	BsmB1	BsrD1	BsrG1	Bts1	_Chi	Clal	EcoR1	Fsp1
Hpa1	Kpn1	Mfe1	Nde1	Nhe1	Not1	Pml1	PshA1	Sac2	Sall	Sbf1	Scal	SexA1	Sfi1
SnaB1	Xba1	Xho1	Xmn1										

Not found:

Acc1	Asc1	AsiS1	Baela	Baelb	BbvC1	BcglA	Bcglb	Bpu10	BsiW1	BssH2	BstE2	BstZ1	BxatB
BxatL	BxatR	BxatP	EcoK	EcoRV	FCatB	FCatL	FCatR	FCatP	ScFRT	Fse1	FspA1	I_Ceu	loxP
Mlu1	Nru1	Pac1	Pme1	Pvu1	R4atB	R4atL	R4atP	R4atR	Sgf1	SgrA1	Spe1	Srf1	Swal
T3RNA	T7RNA	T7Ter	PISce										

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	Bsl1	BsmA1	BsmF1	Bsp12	BspCa	BspCb	Bsr1
BsrF1	BssK1	BstF5	BstN1	BstU1	BstY1	Btg1	Cac8	CviJ1	Dde1	Eae1	EcoO1	Faul	Fnu4H
Fok1	Hae2	Hae3	Hga1	Hha1	Hinc2	Hinfl	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													