


```

                                     Bsu36      SpDon      Bbs1
          GGCATCCCCGACTTCTTTAAGCAGTCCTTCCCTGAGGGCTTCACATGGGAGAGAATCACCACATACGAAGACGGGGGCGTGCTGACCGCTACCCAGGACA
    901  |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1000
          CCGTAGGGGCTGAAGAAATTCGTCAGGAAGGGACTCCCGAAGTGTACCCTCTCTTAGTGGTGTATGCTTCTGCCCGGCACGACTGGCGATGGGTCTCTGT
TurboRFP > G I P D F F K Q S F P E G F T W E R I T T Y E D G G V L T A T Q D T

                                     SpDon      BseY1
          CCAGCTTCCAGAACGGCTGCATCATCTACAACGTCAAGATCAACGGGGTGAACTTCCCATCCAACGGCCCTGTGATGCAGAAGAAAACACGCGGCTGGGA
    1001 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1100
          GGTCTGAAGGTCTTGCCGACGTAGTAGATGTTGCAGTTCTAGTTGCCCACTTGAAGGGTAGGTTGCCGGGACACTACGTCTTCTTTTGTGCGCCGACCCT
TurboRFP > S F Q N G C I I Y N V K I N G V N F P S N G P V M Q K K T R G W E

                                     Sfi1      Bsg1      BspM1
                                     Bgl1      BssS1      Eco57      Bts1BfuA1
          GGCCAACACCCGAGATGCTGTACCCCGCTGACGGCGGCTGAGAGGCCACAGCCAGATGGCCCTGAAGCTCGTGGGCGGGGGCTACCTGCACTGCTCCTTC
    1101 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1200
          CCGGTTGTGGCTCTACGACATGGGGCGACTGCCGCCGGACTCTCCGGTGTGCGGTCTACCGGGACTTCGAGCACCCCGCCCCGATGGACGTGACGAGGAAG
TurboRFP > A N T E M L Y P A D G G L R G H S Q M A L K L V G G G Y L H C S F

                                     PflM1      SpAcc      Bsa1
                                     BpuE1      Dra3      PflM1
          AAGACCACATACAGATCCAAGAAACCCGCTAAGAACCTCAAGATGCCCCGGCTTCCACTTCGTGGACCACAGACTGGAAAGAATCAAGGAGGCCGACAAAG
    1201 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1300
          TTCTGGTGTATGTCTAGGTTCTTTGGGCGATTCTTGGAGTTCTACGGGCCGAAGGTGAAGCACCTGGTGTCTGACCTTTCTTAGTTCTCCTCCGGCTGTTTC
TurboRFP > K T T Y R S K K P A K N L K M P G F H F V D H R L E R I K E A D K E

          PshA1      BssS1      Msc1      Scal      SpAcc      Bmr1      BspE1      Bgl2
          AGACCTACGTCGAGCAGCACGAGATGGCTGTGGCCAAGTACTGCGACCTCCCTAGCAAACCTGGGGCACAGAGATGAATCCGGACTCAGATCTCGAATCAG
    1301 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1400
          TCTGGATGCAGCTCGTCTGCTCTACCGACACCGGTTTCATGACGCTGGAGGGATCGTTTGACCCCGTGTCTCTACTTAGGCCTGAGTCTAGAGCTTAGTC
TurboRFP/MODS> T Y V E Q H E M A V A K Y C D L P S K L G H R D E S G L R S R I S

```



```

                                     SpDon          BstAP      AlwN1      Bsu36
                                     |              |         |         |
CGCGTTTCTTCCTTTTCCCACCCACCCCAAGTTCGGGTGAAGGCCAGGGCTCGCAGCCAACGTCGGGGCGGCAGGCCCTGCCATAGCCTCAGGTT
3901 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 4000
GCGCAAAGAAGGAAAAGGGGTGGGGTGGGGGTTCAAGCCCACTTCCGGGTCCCAGCGTCGGTTGCAGCCCCGCCGTCGGGACGGTATCGGAGTCCAA

                                     DraI          DraI          BspH1
                                     |              |         |
ACTCATATATACTTTAGATTGATTTAAACTTTCATTTTTAATTTAAAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAAATCCCTTAACG
4001 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 4100
TGAGTATATATGAAATCTAACTAAATTTTGAAGTAAAAATTAATTTTCTAGATCCACTTCTAGGAAAACTATTAGAGTACTGGTTTTAGGGAATTGC

                                     BpuE1
                                     |
TGAGTTTTCGTTCCTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTCTGCGCGTAATCTGCTGCTTGCAAACAAAA
4101 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 4200
ACTCAAAGCAAGGTGACTCGCAGTCTGGGGCATCTTTTCTAGTTTCTTAGAAGAACTCTAGGAAAAAAGACGCGCATTAGACGACGAACGTTTGT

                                     Eco57
                                     |
AAACCACCGCTACCAGCGGTGGTTTGTGGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGTAAGTGGCTTCAGCAGAGCGCAGATACCAAATACTG
4201 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 4300
TTTGGTGGCGATGGTCGCCACCAAACAAACGGCCTAGTTCTCGATGGTTGAGAAAAGGCTTCCATTGACCGAAGTCGTCTCGCGTCTATGGTTTATGAC

                                     SpAcc          AlwN1
                                     |              |
TCCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAG
4301 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 4400
AGGAAGATCACATCGGCATCAATCCGGTGGTGAAGTTCTTGAGACATCGTGGCGGATGTATGGAGCGGAGACGATTAGGACAATGGTACCGGACGACGGTC

                                     BpuE1          ApaL1          BseY1
                                     |              |         |
TGGCGATAAGTTCGTGTTACCGGTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTCCGGCTGAACGGGGGGTTTCGTGCACACAGCCCAGC
4401 |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 4500
ACCGCTATTCAGCACAGAATGGCCCAACCTGAGTTCTGCTATCAATGGCCTATTCCGCGTCGCCAGCCCCGACTTGCCCCCAAGCACGTGTGTGGGGTCCG

```

```

                                     SpAcc                                     Eci1
                                     |                                     |
TTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAA
4501 |||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||* 4600
AACCTCGCTTGCTGGATGTGGCTTGACTCTATGGATGTGCGACTCGATACTCTTTTCGCGGTGCGAAGGGCTTCCCTCTTTCCGCCTGTCCATAGGCCATT

BciV1                               BssS1                               SpAcc                               Drd1
|                                   |                                   |                                   |
GCGGCAGGGTCGGAACAGGAGAGCGCACGAGGGGAGCTTCCAGGGGGAAACGCCTGGTATCTTTATAGTCCTGTTCGGGTTTCGCCACCTCTGACTTGAGCG
4601 |||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||* 4700
CGCCGTCCCAGCCTTGTCCTCTCGCGTGCTCCCTCGAAGGTCCCCCTTTGCGGACCATAGAAATATCAGGACAGCCCAAAGCGGTGGAGACTGAACTCGC

                BpuE1                SpAcc                Eci1                BspLU
                |                |                |                |
TCGATTTTTGTGATGCTCGTCAGGGGGGCGGAGCCTATGGAAAAACGCCAGCAACCGGCCTTTTTTACGGTTCCCTGGCCTTTTGTGCTGGCCTTTTGTCTCAC
4701 |||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||*||||||* 4800
AGCTAAAAACACTACGAGCAGTCCCCCGCCTCGGATACCTTTTTTTCGGTTCGTTGCGCCGAAAAATGCCAAGGACCGGAAAAACGACCGGAAAAACGAGTG

                                     Nsi1
                                     |
SpDon                               BfrB1
|                                   |
ATGTTCTTTTCTGCGTTATCCCCTGATTCTGTGGATAACCGTATTACCGCCATGCAT
4801 |||||||*||||||*||||||*||||||*||||||*||||||*||||||* 4857
TACAAGAAAGGACGCAATAGGGGACTAAGACACCTATTGGCATAATGGCGGTACGTA
```

Found:

Aat2	Acc65	Afe1	Afl2	Age1	AlwN1	Apa1	ApaL1	Ase1	Avr2	BamH1	Bbs1	BciV1	Bcl1
BfrB1	BfuA1	Bgl1	Bgl2	Bmr1	Bpm1	BpuE1	Bsa1	BsaB1	BsaXa	BsaXb	BseR1	BseY1	Bsg1
Bsm1	BspE1	BspH1	BspLU	BspM1	BsrB1	BsrD1	BsrG1	BssS1	BstAP	BstB1	Bsu36	BtgZ1	Bts1
Clal	Dra1	Dra3	Drd1	Eag1	Ear1	Ecil	Eco57	EcoR1	Fsp1	Hind3	Hpa1	Kas1	Kpn1
Mfe1	Msc1	Nae1	Nar1	Nco1	Nde1	NgoM4	Nhe1	Nsil	PflF1	PflM1	polyA	PshA1	Psi1
PspOM	Pst1	Pvu2	Rsr2	Sac1	Sac2	Sall1	Sap1	Sca1	SexA1	Sfil	SgrA1	Sma1	SnaB1
SpAcc	SpDon	Sph1	Ssp1	Stu1	Xba1	Xho1							

Unique:

Acc65	Afe1	Afl2	Age1	Apa1	Ase1	BamH1	Bbs1	Bcl1	BsaXa	BsaXb	BseR1	Bsg1	BspE1
BspLU	BsrD1	BsrG1	Clal	EcoR1	Fsp1	Hind3	Hpa1	Kas1	Kpn1	Mfe1	Nar1	Nde1	Nhe1
PflF1	PshA1	PspOM	Rsr2	Sac1	Sac2	Sall1	Sca1	SexA1	SgrA1	Sma1	SnaB1	Stu1	Xba1
Xho1													

Not found:

Aar1	Acl1	Ahd1	Ale1	Asc1	AsiS1	Baela	Baelb	BbvC1	Bcgl1a	Bcgl1b	Blp1	BmgB1	Bpu10
BsiW1	BsmB1	BssH2	BstE2	BstX1	BstZ1	_Chi	EcoK	EcoN1	EcoRV	ScFRT	Fse1	FspA1	I_Ceu
loxP	Mlu1	Not1	Nru1	Pac1	Pme1	Pml1	Pvu1	SanD1	Sbf1	Sgf1	Spe1	Srf1	Swal
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	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	Tfil	Tse1	Tsp45	Tsp50
TspR1													