

pmKate2-lamin 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, Lamin B1 amino acids are shown in green, linker amino acids are shown in black.




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                                SpAcc
    Dra3                               Bmr1   Eco57   Bpu10   |   Pst1
    |                                   |         |         |   |   |
1801  CTTGGTGACAAAAAAGTTTAGAGGGAGATTTGGAGGATCTGAAGGATCAGATTGCCAGTTGGAAGCCTCCTTAGCTGCAGCCAAAAACAGTTAGCAG
    |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 1900
    GAACCACTGTTTTTTTCAAATCTCCCTCTAAACCTCCTAGACTTCCTAGTCTAACGGGTCAACCTTCGGAGGAATCGACGTCGGTTTTTTGTCAATCGTC
LaminB1 > L G D K K S L E G D L E D L K D Q I A Q L E A S L A A A K K Q L A D

                                EcoN1                               Ear1   Bsa1   BseR1
    |                                   |         |         |   |   |
1901  ATGAAACTTTACTTAAAGTAGATTTGGAGAATCGTTGTCAGAGCCTTACTGAGGACTTGGAGTTTCGAAAAGCATGTATGAAGAGGAGATTAACGAGAC
    |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 2000
    TACTTTGAAATGAATTCATCTAAACCTCTTAGCAACAGTCTCGGAATGACTCCTGAACCTCAAAGCGTTTTTCGTACATACTTCTCCTCTAATTGCTCTG
LaminB1 > E T L L K V D L E N R C Q S L T E D L E F R K S M Y E E E I N E T

                                BspH1
    |
2001  CAGAAGGAAGCATGAAACGCGCTTGGTAGAGGTGGATTCTGGGCGTCAAATTGAGTATGAGTACAAGCTGGCGCAAGCCCTTCATGAGATGAGAGAGCAA
    |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 2100
    GTCTTCTTCGTACTTTGCGCGAACCATCTCCACCTAAGACCCGAGTTTAACTCATACTCATGTTTCGACCGGTTTCGGGAAGTACTCTACTCTCTCGTT
LaminB1 > R R K H E T R L V E V D S G R Q I E Y E Y K L A Q A L H E M R E Q

    SpDon                               BseR1SpDon   Bpm1   Bsm1   BpuE1
    |                                   |         |         |   |   |
2101  CATGATGCCCAAGTGAGGCTGTATAAGGAGGAGCTGGAGCAGACTTACCATGCCAAACTTGAGAATGCCAGACTGTCATCAGAGATGAATACTTCTACTG
    |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 2200
    GTACTACGGGTTCACTCCGACATATTCTCCTCGACCTCGTCTGAATGGTACGGTTTGAACCTTTACGGTCTGACAGTAGTCTCTACTTATGAAGATGAC
LaminB1 > H D A Q V R L Y K E E L E Q T Y H A K L E N A R L S S E M N T S T V

                                BseY1   SpAcc   Xba1
    |         |         |         |
2201  TCAACAGTGCCAGGGAAGAACTGATGGAAAGCCGCATGAGAATTGAGAGCCTTTTCATCCCAGCTTTCTAATCTACAGAAAGAGTCTAGAGCATGTTTGA
    |||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||*|||||* 2300
    AGTTGTCACGGTCCCTTCTTACTACCTTTCGGCGTACTCTTAACTCTCGGAAAGTAGGGTTCGAAAGATTAGATGTCTTTCTCAGATCTCGTACAAACCT
LaminB1 > N S A R E E L M E S R M R I E S L S S Q L S N L Q K E S R A C L E

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Found:

Aar1	Aat2	Afe1	Age1	Ale1	AlwN1	ApaL1	Ase1	Avr2	BamH1	Bbs1	BbvC1	Bcg1a	Bcg1b
BciV1	Bcl1	BfrB1	BfuA1	Bgl1	Bgl2	Blp1	Bmr1	Bpm1	Bpu10	BpuE1	Bsa1	BsaB1	BsaXa
BsaXb	BseR1	BseY1	Bsg1	Bsm1	BsmB1	BspE1	BspH1	BspLU	BspM1	BsrB1	BsrD1	BsrG1	BssH2
BssS1	BstAP	BstB1	Bsu36	BtgZ1	Bts1	_Chi	Clal	Dra1	Dra3	Drd1	Eag1	Ear1	Eci1
Ecl2	Eco57	EcoN1	Fsp1	Hind3	Hpa1	Kas1	Mfe1	Mlu1	Msc1	Nae1	Nar1	Nco1	Nde1
NgoM4	Nhe1	Nsi1	PflF1	polyA	PshA1	Psi1	Pst1	Pvu2	Rsr2	Sac1	Sac2	Sap1	SexA1
Sfi1	SnaB1	SpAcc	SpDon	Sph1	Ssp1	Stu1	Xba1	Xcm1	Xho1	Xmn1			

Unique:

Aar1	Afe1	Age1	Ale1	Ase1	BamH1	BbvC1	Bgl2	Blp1	Bsg1	BsmB1	BspE1	BspLU	BsrD1
Bts1	_Chi	Clal	EcoN1	Hpa1	Mfe1	Mlu1	Nde1	Nhe1	PflF1	PshA1	Rsr2	Sac2	SexA1
Sfi1	Xcm1	Xho1											

Not found:

Acc65	Acl1	Afl2	Ahd1	Apa1	Asc1	AsiS1	Baela	Baelb	BmgB1	BsiW1	BstE2	BstX1	BstZ1
BxatB	BxatL	BxatR	BxatP	EcoK	EcoR1	EcoRV	FCatB	FCatL	FCatR	FCatP	ScFRT	Fse1	FspA1
I_Ceu	Kpn1	loxP	Not1	Nru1	Pac1	PflM1	Pme1	Pml1	PspOM	Pvu1	R4atB	R4atL	R4atP
R4atR	Sall	SanD1	Sbf1	Sca1	Sgf1	SgrA1	Sma1	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	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													