

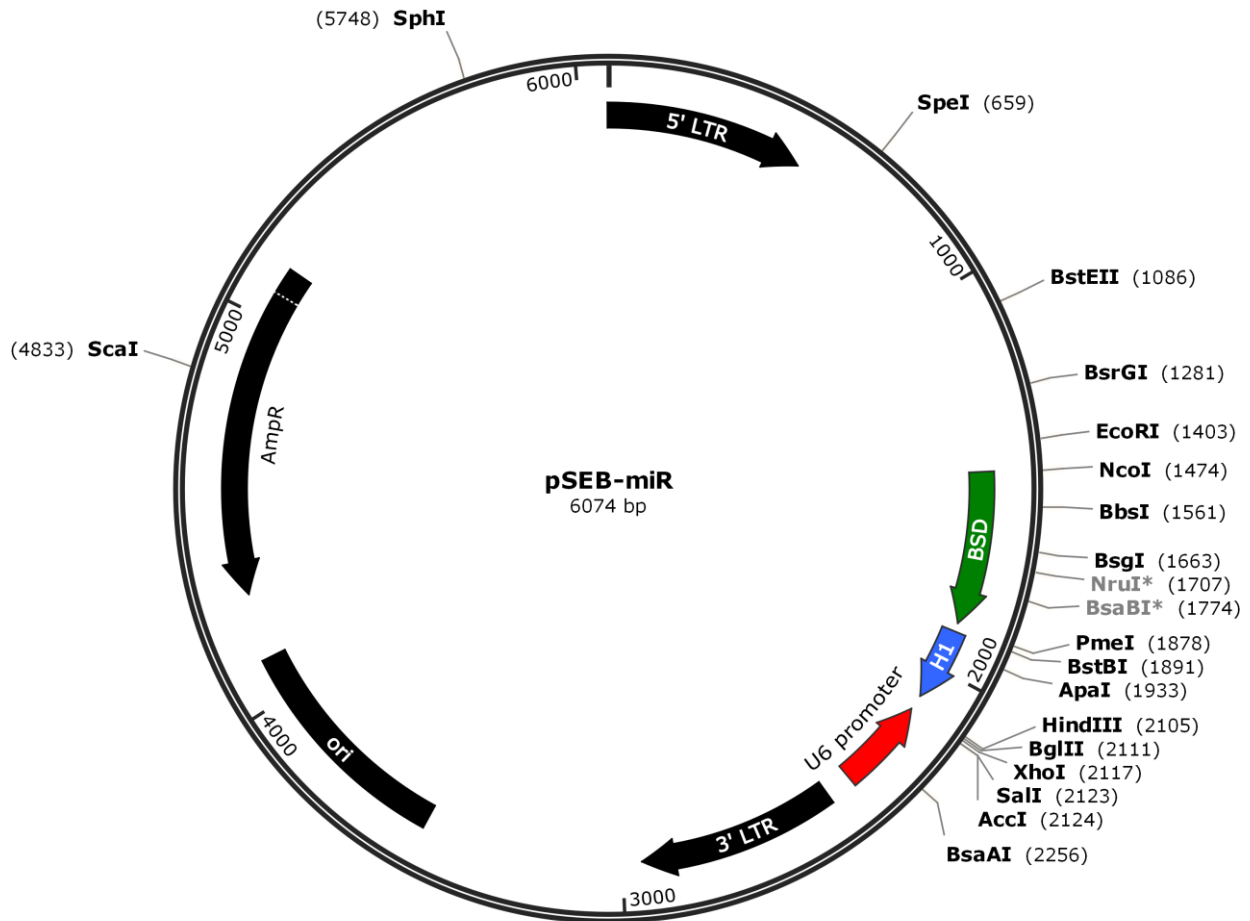
Vector: pSEB-miR (mature microRNA expression vector)

Antibiotic Selection: Amp

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Date of Construction: November, 2016

Created with SnapGene®



Design of miR Oligo Cassette



Example :

5p: TGAGGTAGTAGGTTGTATAGTT

3p: CTATACAATCTACTGTCTTTCC

mmu-let-7a-1

TCGATGAGGTAGTAGGTTGTATAGTTtttttaaaaaGGAAAGACAGTAGATTGTATAG
ACTCCATCATCCAACATATCAAaaaaatttttCCTTTCTGTCATCTAACATATC**TCGA**
AGCTCTATACAATCTACTGTCTTTCCtttttaaaaaAACTATACAACCTACTACCTCA

pSEB-miR Full-length Vector Sequence

TGAAAGACCCACCTGTAGGTTTGGCAAGCTAGCTTAAGTAACGCCATTTTGAAGGCATGGAAAATACATAACTGAGAATAGAGAAGTTA
GATCAAGGTTAGGAACAGAGACAGCAGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCCTCCCCGGCTCAGGGCCAAGAACAG
ATGGTCCCCAGATGCGGTCCC GCCCTCAGCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGC
CTTATTTGAACTAACCAATCAGTTTCGCTTCTCGCTTCTGTTTCGCGCGCTTCTGCTCCCCGAGCTCAATAAAAAGAGCCCACAACCCCTCACT
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pSEB-miR, 6074 bp. (CIRCULAR)
Restriction analysis 12/21/2016
pDRAW32 revision 1.1.130
UNLICENSED
Rebase containing 277 enzymes.
29 enzymes match enzyme selection criteria.
Single Cutter

AccI (GT'mk_AC) [FblI,XmiI]
Cuts 1 time.
Cuts at position 2124.

AflIII (A'CryG_T)
Cuts 1 time.
Cuts at position 3460.

ApaI (G_GGCC'C) [Bsp120I,PspOMI]
[dcm methylated]
Cuts 1 time.
Cuts at position 1933.

BbsI (GAAGACnn'nnnn_) [BpiI,BstV2I]
Cuts 1 time.
Cuts at position 1561.

BglIII (A'GATC_T)
Cuts 1 time.
Cuts at position 2111.

BsaAI (yAC'GTr) [BstBAI,Ppu21I]
Cuts 1 time.
Cuts at position 2256.

BsaBI (GATnn'nnATC) [Bse8I,BseJI]
[dam methylated]
Cuts 1 time.
Cuts at position [1774].

BsgI (GTGCAGnnnnnnnnnnnn_nn')
Cuts 1 time.
Cuts at position 1663.

BsrGI (T'GTAC_A) [Bsp1407I,BstAUI]
Cuts 1 time.
Cuts at position 1281.

BstBI (TT'CG_AA)
[AsuII,Bpu14I,Bsp119I,BspT104I,NspV,SfuI]
Cuts 1 time.
Cuts at position 1891.

BstEII (G'GTnAC_C)
[BstPI,Eco91I,Eco065I,PspEI]
Cuts 1 time.
Cuts at position 1086.

CspCI (CAAnnnnnGTGGnnnnnnnnnn_nn')
Cuts 1 time.
Cuts at position 1493.

CspCI (CCACnnnnnTTGnnnnnnnnnn_nn')
Cuts 1 time.
Cuts at position 1528.

EcoRI (G'AATT_C)
Cuts 1 time.
Cuts at position 1403.

HindIII (A'AGCT_T)

Cuts 1 time.
Cuts at position 2105.

NcoI (C'CATG_G) [Bsp19I]
Cuts 1 time.
Cuts at position 1474.

NruI (TCG'CGA) [Bsp68I,BtuMI,RruI]
[dam methylated]
Cuts 1 time.
Cuts at position [1707].

PciI (A'CATG_T) [PscI]
Cuts 1 time.
Cuts at position 3460.

PfoI (T'CCnGG_A)
Cuts 1 time.
Cuts at position 5386.

PmeI (GTTT'AAAC) [MssI]
Cuts 1 time.
Cuts at position 1878.

PsiI (TTA'TAA) [AanI]
Cuts 1 time.
Cuts at position 2087.

PspOMI (G'GGCC_C) [ApaI,Bsp120I]
[dcm methylated]
Cuts 1 time.
Cuts at position 1929.

SaII (G'TCGA_C)
Cuts 1 time.
Cuts at position 2123.

ScaI (AGT'ACT) [AssI,BmcAI,ZrmI]
Cuts 1 time.
Cuts at position 4833.

SexAI (A'CCwGG_T) [CsiI,MabI]
[dcm methylated]
Cuts 1 time.
Cuts at position [1214].

SgrAI (Cr'CCGG_yG)
Cuts 1 time.
Cuts at position 5896.

SpeI (A'CTAG_T) [AhlI,BcuI]
Cuts 1 time.
Cuts at position 659.

SphI (G_CATG'C) [PaeI]
Cuts 1 time.
Cuts at position 5748.

XhoI (C'TCGA_G) [PaeR7I,Sfr274I,SlaI,StrI]
Cuts 1 time.
Cuts at position 2117.

the following enzymes do not cut in :

Age I	Avr II	BamH I	Bcl I	Blp I
BsiW I	Bsm I	Bsp1286 I	BspM I	BspM II
Bst1107 I	BstX I	Cla I	Dra III	Eco72 I
Esp I	Fse I	Hpa I	Mlu I	Mun I
Not I	Nsi I	PflM I	Pml I	Rsr II
Sac II	Sfi I	SnaB I	Spl I	Srf I