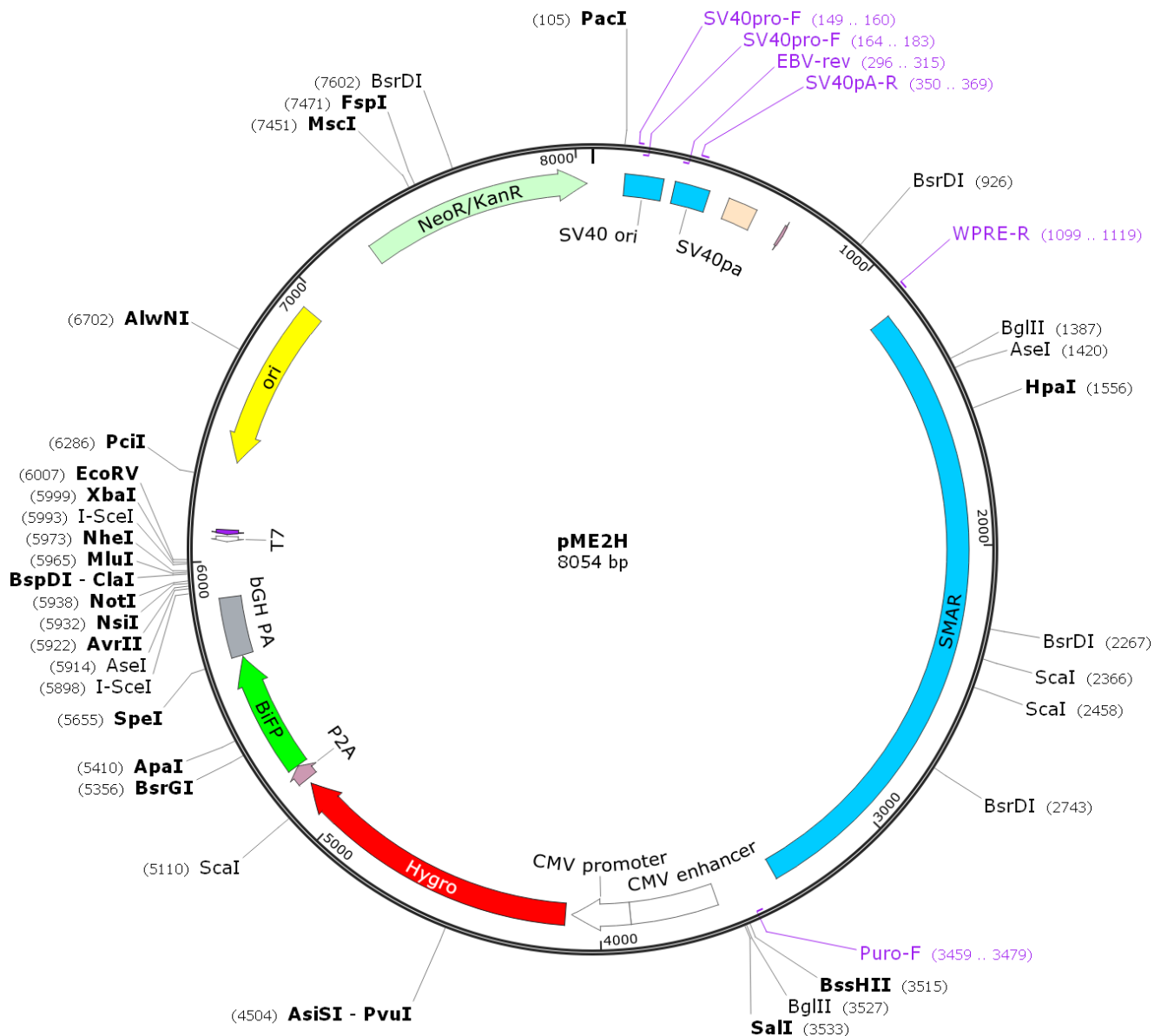


Vector: pME2H (MOLab episomal expression vector)

Antibiotic Selection: Kan (hygro in mammalian cells)

Creator(s): Linjuan Huang & Hao Wang @ Molecular Oncology Lab of The University of Chicago Medical Center

Date of Construction: July 2020



GGCTGTGTAGAAGTACTCGCCGATAGTGGAAACCGACGCCCCAGCACTCGTCCGAGGCCTCCGCGGggetccggcgccaccaacttctccc
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 TATCGCCTTCTTGACGAGTTCTTCTGACCTTTCGTCTTCAAGAATT

Zero Cutters

#	Enzyme	Specificity			
			15	KpnI	GGTACC
1	Acc65I	GGTACC	16	MfeI	CAATTG
2	AfeI	AGCGCT	17	NruI	TCGCGA
3	AflII	CTTAAG	18	PmeI	GTTTAAAC
4	AgeI	ACCGGT	19	PmlI	CACGTG
5	BaeI	(N) 5 (N) 10ACN>NNNGTAYC (N) 7 (N) 5	20	PpuMI	RGGWCCY
6	BclI	TGATCA	21	PspXI	VCTCGAGB
7	BlpI	GCTNAGC	22	SbfI	CCTGCAGG
8	BsgI	GTGCAG (N) 14NN	23	SgrAI	CRCCGGYG
9	BsiWI	CGTACG	24	SmaI	CCCGGG
10	BstBI	TTCGAA	25	SrfI	GCCCGGGC
11	BstEII	GGTNACC	26	TspMI	CCCGGG
12	EcoNI	CCTNNNNNAGG	27	XcmI	CCANNNNNNNTGG
13	FseI	GGCCGGCC	28	XmaI	CCCGGG
14	HindIII	AAGCTT			

One-Cutters

#	Enzyme	Specificity	Sites & flanks	Cut positions (blunt - 5' ext. - 3' ext.)
1	AclI	AA CG [▼] TT	list	*3082/3084
2	AleI	CACNN [▼] NNGTG	list	5430
3	AlwNI	CAG [▼] NNN CTG	list	6702/6699

4	Apal	G _↓ GGCC _↓ C	list	*5410/5406
5	Ascl	GG _↓ CGCG _↓ CC	list	*3515/3519
6	AsiSI	GCG _↓ AT _↓ CGC	list	*4504/4502
7	AvrII	C CTAG _↓ G	list	5922/5926
8	BamHI	G _↓ GATC _↓ C	list	4122/4126
9	BbvCI	CC _↓ TCA _↓ GC	list	2927/2930
10	BcgI	△NN (N) ₁₀ CGA(N) ₆ TGC(N) ₁₀ △NN _↓	list	*1164/1162+1198/1196
11	BmgBI	CAC _↓ GTC	list	*5207
12	BmtI	G _↓ CTAG _↓ C	list	5977/5973
13	BsaBI	GATNN _↓ NNATC	list	#4121
14	BsaI	GGTCTCN NNNN _↓	list	3496/3500
15	BspDI	AT _↓ CG _↓ AT	list	*5960/5962
16	BsrGI	T _↓ GTAC _↓ A	list	5356/5360
17	BssHII	G _↓ CGCG _↓ C	list	*3515/3519
18	BstZ17I	GTA _↓ TAC	list	1498
19	Bsu36I	CC _↓ TNA _↓ GG	list	5314/5317
20	ClaI	AT _↓ CG _↓ AT	list	*5960/5962
21	CspCI	△NN (N) ₁₁ CAA(N) ₅ GTGG(N) ₁₀ △NN _↓	list	3907/3905+3942/3940
22	Eco53kl	GAG _↓ CTC	list	1720
23	EcoO109I	RG _↓ GNC _↓ CY	list	5407/5410
24	EcoRV	GAT _↓ ATC	list	6007
25	FspI	TGC _↓ GCA	list	*7471
26	HpaI	GTT _↓ AAC	list	1556
27	MluI	A _↓ CGCG _↓ T	list	*5965/5969
28	MscI	TGG _↓ CCA	list	7451
29	NheI	G _↓ CTAG _↓ C	list	5973/5977
30	NotI	GC _↓ GGCC _↓ GC	list	*5938/5942
31	NsiI	A _↓ TGCA _↓ T	list	5932/5928
32	PacI	TTA _↓ AT _↓ TAA	list	105/103
33	PciI	A _↓ CATG _↓ T	list	6286/6290
34	PflMI	CCAN _↓ NNN _↓ NTGG	list	933/930
35	PshAI	GACNN _↓ NNGTC	list	*4167
36	PspOMI	G _↓ GGCC _↓ C	list	*5406/5410
37	PvuI	CG _↓ AT _↓ CG	list	*4504/4502
38	SacI	G _↓ AGCT _↓ C	list	1722/1718
39	SalI	G _↓ TCGA _↓ C	list	*3533/3537
40	SexAI	A _↓ CCWGG _↓ T	list	#3402/3407
41	SfiI	GGCCN _↓ NNN _↓ NGGCC	list	*160/157
42	SnaBI	TAC _↓ GTA	list	*3871
43	SpeI	A _↓ CTAG _↓ T	list	5655/5659
44	Swal	ATTT _↓ AAAT	list	1376
45	XbaI	T _↓ CTAG _↓ A	list	5999/6003