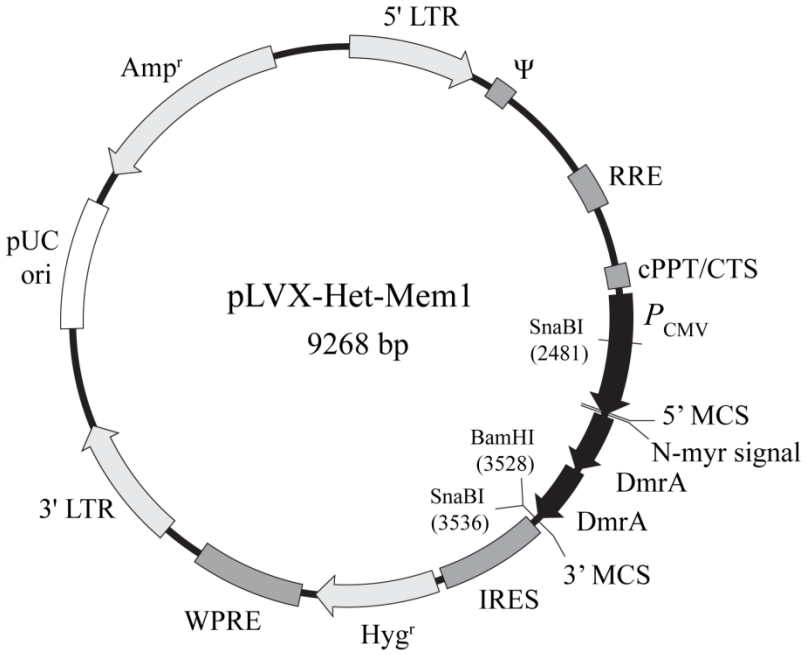
Vector Map

pLVX-Het-Mem1

Catalog No(s).	Amount	Lot Number
635075 (Not sold separately). Sold as part of 635074.	20 µl pLVX-Het-Mem1 Vector (500 ng/µl)	Specified on product label.

pLVX-Het-Mem1 Vector Information



5' MCS

	XhoI	SpeI	N-myr signal										
2810	CTC GAG	ACT AGT	ATG	GGG	AGT	AGC	AAG	AGC	AAG	CCT	AAG	GAC	CCC
	GAG CTC	TGA TCA	TAC	CCC	TCA	TCG	TTC	TCG	TTC	GGA	TTC	CTG	GGG

	N-myr signal		N-terminus of DmrA (1) coding region										
2855	AGC CAG	CGC TCT	AGA	GGA	GTG	CAG	GTG	GAA	ACC	ATC	TCC	CCA	...
	TCG GTC	GCG AGA	TCT	CCT	CAC	GTC	CAC	CTT	TGG	TAG	AGG	GGT	...

	C-terminus of DmrA (2) coding region									NotI		BamHI	
3488	...	TTC	GAC	GTG	GAG	CTG	CTG	AAG	CTG	GAG	AGC	GGC	CGC	GGA	TCC
	...	AAG	CTG	CAC	CTC	GAC	GAC	TTC	GAC	CTC	TCG	CCG	GCG	CCT	AGG

3' MCS

pLVX-Het-Mem1 vector map and multiple cloning site. To create a fusion of your protein of interest and the DmrA protein, clone your gene of interest in either the 5' or 3' MCS, in-frame with the DmrA coding sequence (see Notes).

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Last update: (111511)

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Notes

When cloning your gene of interest into the pLVX-Het-Mem1 vector, make certain that the N-myr-signal is located on the N-terminus of the DmrA fusion protein. The N-myr-signal is NOT functional if localized in the middle or at the C-terminus of a protein of interest. Your gene must either be cloned into the 3'MCS, or if cloned into the 5' MCS, which is located upstream of the N-myr signal, you must include a separate N-myr signal sequence on the forward primer used to amplify your gene of interest.

Location of Features

- 5' LTR (5' long terminal repeat): 1–635
- ψ (packaging signal): 685–822
- RRE (Rev-response element): 1303–1536
- cPPT/CTS (central polypurine tract/central termination sequence): 2028–2151
- P_{CMV} (human cytomegalovirus promoter): 2185–2788
- 5'MCS (5' multiple cloning site): 2810–2821
- N-myr signal (amino-terminal myristoylation signal): 2822–2863
- DmrA (DmrA fusion protein): 2867–3190, 3194–3517
- 3'MCS (3' multiple cloning site): 3519–3532
- IRES (Internal ribosome entry site): 3543–4118
- Hyg^r (hygromycin resistance gene): 4142–5176
- WPRE(woodchuck hepatitis virus posttranscriptional regulatory element): 5190–5781
- 3' LTR (3' long terminal repeat): 5985 –6621
- pUC ori (pUC origin of replication): 7091–7761 (complementary)
- Amp^r (ampicillin resistance gene): 7906–8902 (complementary)

Notice to Purchaser