

## pLVX-Hom-Mem1

### Catalog No(s).

635073 (Not sold separately).  
Sold as part of 635072.

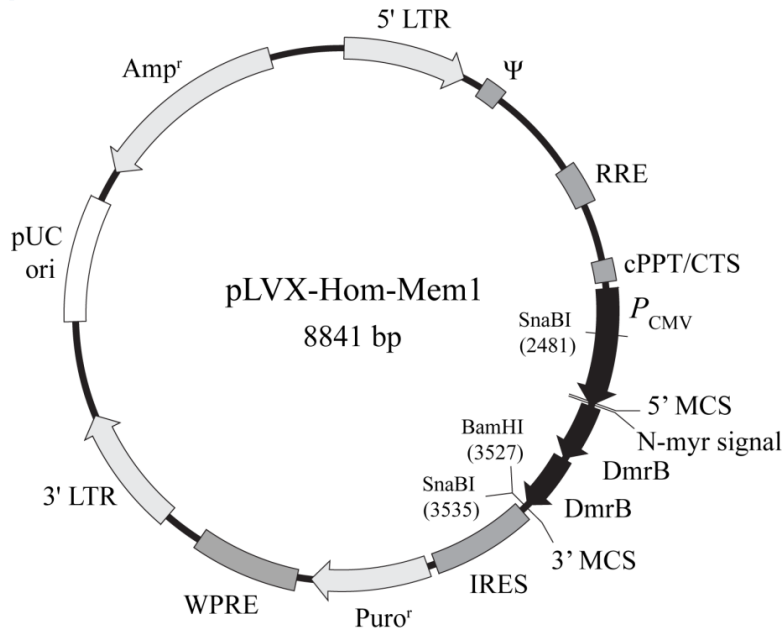
### Amount

20  $\mu$ l pLVX-Hom-Mem1 Vector (500 ng/ $\mu$ l)

### Lot Number

Specified on product label.

### pLVX-Hom-Mem1 Vector Information



#### 5' MCS

EcoRI	SpeI	N-myristoylation signal									
GAA TTC CTC GAG	ACT AGT	ATG GGG AGT AGC AAG AGC AAG CCT AAG									
CTT AAG GAG CTC TGA TCA		TAC CCC TCA TCG TTC TCG TTC GGA TTC									

#### N-myristoylation signal

N-myristoylation signal										N-terminus of DmrB (1) coding region										
GAC CCC AGC CAG CGC TCT AGA											GGC GTC CAA GTC GAA ACC ATT ...									
CTG GGG TCG GTC GCG AGA TCT											CCG CAG GTT CAG CTT TGG TAA ...									

#### C-terminus of DmrB (2) coding region

C-terminus of DmrB (2) coding region										NotI	BamHI	
... GAG CTT CTA AAA CTG GAA											AGC GGC CGC GGA TCC	TAC GTA TGA
... CTC GAA GAT TTT GAC CTT											TCG CCG GCG CCT AGG	ATG CAT ACT

#### 3' MCS

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

#### Clontech Laboratories, Inc.

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## Notes

When cloning your gene of interest into the pLVX-Hom-Mem1 vector, make certain that the N-myr-signal is located on the N-terminus of the DmrB 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
- $\psi$  (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): 2185–2787
- 5'MCS (5' multiple cloning site): 2803–2820
- N-myr signal (amino-terminal myristoylation signal): 2821–2862
- DmrB (DmrB fusion protein): 2869–3189, 3196–3516
- 3'MCS (3' multiple cloning site): 3518–3531
- IRES (Internal ribosome entry site): 3542–4117
- Puro<sup>r</sup> (puromycin resistance gene; puromycin acetyltransferase): 4150–4749
- WPRE (woodchuck hepatitis virus posttranscriptional regulatory element): 4763–5354
- 3' LTR (3' long terminal repeat): 5558–6194
- pUC ori (pUC origin of replication): 6664–7334 (complementary)
- Amp<sup>r</sup> (ampicillin resistance gene): 7479–8475 (complementary)

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This document has been reviewed and approved by the Clontech Quality Assurance Department.