

## Product datasheet for **MC226248**

### Pemt (NM\_001290012) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pemt (NM\_001290012) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pemt  
**Synonyms:** PEAMT; Pempt; Pempt2; PEMT2; PLMT  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226248 representing NM\_001290012  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGCTGGCTGCTGGGTTACATGGACCCACAGAGCCAGCTTTGTGGCGGCTGTGATCACCATTGTGT  
TCAACCCACTCTTCTGGAATGTGGTAGCGAGATGGGAGCAGAGAACTCGGAAGCTGAGCAGAGCCTTCGG  
CTCCCCACCTAGCCTGCTATTCCTGGGCATCTGCATCCTGCTTTTGAACATCCTCCGCTCCCACTGC  
TTCACACAGGCTATGATGAGCCAGCCAAAGATGGAGGGCCTGGACAACCACACCCTACTTCTGGGCC  
TTGCATTCTAGGTTGGGATTCGTTGTTGTGCTGCCAGCTTCTATGCACTGGGTTCACTGGGACCTT  
TCTAGGTGACTACTTTGGGATCCTCAAGGAGTCCAGAGTGACCACATTTCCCTTCAGCGTCTGGATAAC  
CCCATGTACTGGGACAGTACAGCCAACCTACCTAGGCTGGGCACTCATGCATGCTAGTCCCACAGGCTGC  
TGTTGACGGTCTGGTGGCAATTGTCTACGTGGTTGCTCTCTATATGAAGAGCCCTTCACTGCTGAGAT  
CTACCGACAGAAAGCTACCAGGTTGCACAAAAGAAGCTGA

**ACGCGT**ACGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001290012  
**Insert Size:** 600 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



[View online »](#)

<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001290012.1</a> , <a href="#">NP_001276941.1</a>
<b>RefSeq Size:</b>	985 bp
<b>RefSeq ORF:</b>	600 bp
<b>Locus ID:</b>	18618
<b>UniProt ID:</b>	<a href="#">Q61907</a>
<b>Cytogenetics:</b>	11 37.81 cM
<b>Gene Summary:</b>	<p>Catalyzes the three sequential steps of the methylation pathway of phosphatidylcholine biosynthesis, the SAM-dependent methylation of phosphatidylethanolamine (PE) to phosphatidylmonomethylethanolamine (PMME), PMME to phosphatidyl dimethylethanolamine (PDME), and PDME to phosphatidylcholine (PC). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) uses an alternate splice site in its 5' terminal exon and uses a downstream start codon compared to variant 1. It encodes isoform b which has a shorter N-terminus compared to isoform a. Variants 2, 3 and 4 encode the same isoform (b).</p>