

Product datasheet for **MC225697**

Pemt (NM_001290014) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pemt (NM_001290014) 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: >MC225697 representing NM_001290014
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGCTGGCTGCTGGGTTACATGGACCCACAGAGCCAGCTTTGTGGCGGCTGTGATCACCATTGTGT
TCAACCCACTCTTCTGGAATGTGGTAGCGAGATGGGAGCAGAACTCGGAAGCTGAGCAGAGCCTTCGG
CTCCCCACCTAGCCTGCTATTCCTGGGCATCTGCATCCTGCTTTTGAACATCCTCCGCTCCCACTGG
CATGCTAGTCCCACAGGCCTGCTGTTGACGGTCTGGTGCAATTGTCTACGTGGTTGCTCTCCTATATG
AAGAGCCCTTCACTGCTGAGATCTACCGACAGAAAGCTACCAGGTTGCACAAAAGAAGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_001290014

Insert Size: 342 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



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Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	<u>NM_001290014.1, NP_001276943.1</u>
RefSeq Size:	665 bp
RefSeq ORF:	342 bp
Locus ID:	18618
UniProt ID:	<u>Q61907</u>
Cytogenetics:	11 37.81 cM
Gene Summary:	<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 (5) has an alternate 5' terminal exon and uses a downstream start codon compared to variant 1. It also lacks two in-frame exons compared to variant 1. It encodes isoform c which is shorter than isoform a.</p>