

Product datasheet for **MR227908**

Pemt (NM_001290014) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pemt (NM_001290014) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pemt
Synonyms: PEAMT; Pempt; Pempt2; PEMT2; PLMT
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR227908 representing NM_001290014
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

**ATGAGCTGGCTGCTGGGTTACATGGACCCACAGAGCCAGCTTTGTGGCGGCTGTGATCACCATTGTGT
TCAACCCACTCTCTGGAATGTGGTAGCGAGATGGGAGCAGAACTCGGAAGCTGAGCAGAGCCTTCGG
CTCCCCCACCTAGCCTGCTATCCCTGGGCATCTGCATCCTGCTTTTGAACATCCTCCGCTCCCACTGG
CATGCTAGTCCCACAGGCTGCTGTTGACGGTGCCTGGTGCAATTGTCTACGTGGTTGCTCTCCTATATG
AAGAGCCCTTCACTGCTGAGATCTACCGACAGAAAGCTACCAGGTTGCACAAAAGAAGC**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >MR227908 representing NM_001290014
Red=Cloning site Green=Tags(s)

MSWLLGYMDPTEPSFVAAVITIVFNPLFWNVVARWEQRTRKLSRAFGSPHLACYSLGICILLNLRSHW
HASPTGLLLTVLVAIVYVVALLYEEPFTAEIYRQKATRLHKRS

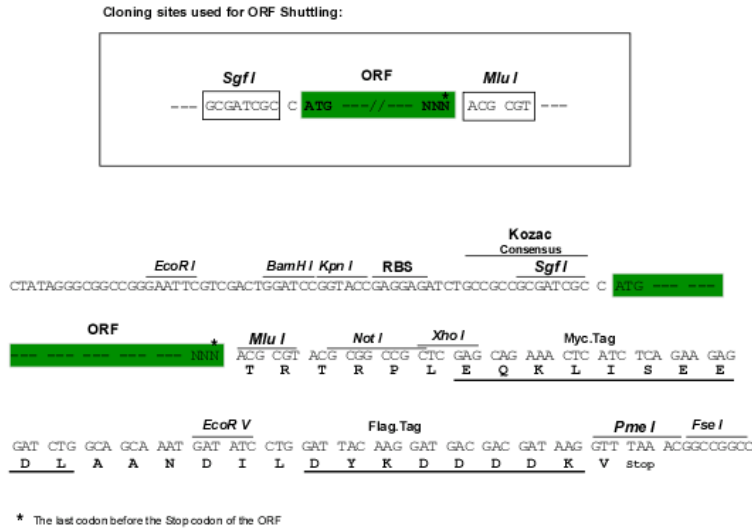
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

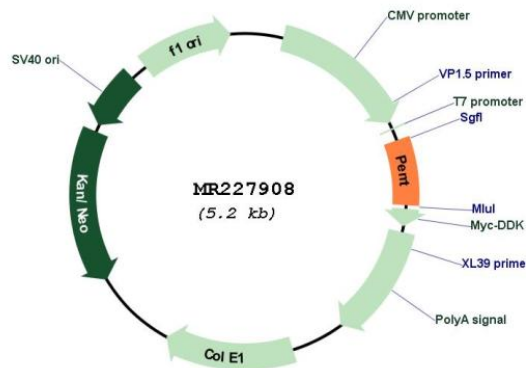


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001290014

ORF Size: 339 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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</u> , <u>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
MW:	13.4 kDa
Gene Summary:	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]