

## Product datasheet for MR228688

### Pemt (NM\_001290011) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pemt (NM_001290011) 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:	>MR228688 representing NM_001290011 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAAGAAAATACGAGCCCGACAACCTGCACTTATCAGCAGCTCGGTAGCGGGGCACGACTGCTGTGGAG  
GCTTCGGCAATATCGACTTCAGGCAGGCTGATCTCTTCGTTATGAGCTGGCTGCTGGGTTACATGGACCC  
CACAGAGCCAGCTTTGTGGCGGCTGTGATCACCATTGTGTTCAACCCACTCTTCTGGAATGTGGTAGCG  
AGATGGGAGCAGAGAAGCTCGGAAGCTGAGCAGAGCCTTCGGCTCCCCCACCTAGCCTGCTATTCCTGG  
GCATCTGCATCCTGCTTTTGAACATCCTCCGCTCCCACTGCTTCACACAGGCTATGATGAGCCAGCCCAA  
GATGGAGGGCCTGGACAACCACACCACCTACTTCTGGGCCTTGCATTCTAGGTTGGGGATTCTGTGTTT  
GTGCTGTCCAGCTTCTATGCACTGGGGTTCAGTGGGACCTTTCTAGGTGACTACTTTGGGATCCTCAAGG  
AGTCCAGAGTGACCACATTTCCCTTCAGCGTGTGGATAACCCCATGACTGGGGCAGTACAGCCAACTA  
CCTAGGCTGGGCACTCATGCATGCTAGTCCCACAGGCCTGCTGTTGACGGTGCTGGTGGCAATTGTCTAC  
GTGGTTGCTCTCCTATATGAAGAGCCCTCACTGCTGAGATCTACCGACAGAAAGCTACCGAGTTGCACA  
AAAGAAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR228688 representing NM\_001290011  
Red=Cloning site Green=Tags(s)

MEENTSPTTALISSSVAGHDCCGGFGNIDFRQADLFVMSWLLGYMDPTEPSFVAAVITIVFNPLFWNVVA  
 RWEQRTRKLSRAFGSPHLACYSLGICILLNLRSHCFQAMMSQPKMEGLDNHTTYFLGLAFLGWGFVF  
 VLSSFYALGFTGTFLGDYFGILKESRVTFPFVLDNPMYWGSTANYLWALMHASPTGLLLTLVVAIVY  
 VVALLYEEPFTA EIYRQKATRLHKRS

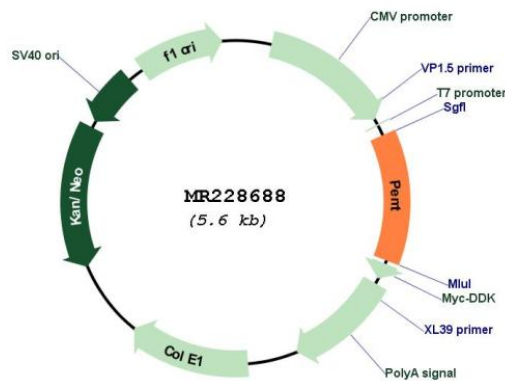
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001290011  
**ORF Size:** 708 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001290011.1</a> , <a href="#">NP_001276940.1</a>
<b>RefSeq Size:</b>	989 bp
<b>RefSeq ORF:</b>	711 bp
<b>Locus ID:</b>	18618
<b>UniProt ID:</b>	<a href="#">Q61907</a>
<b>Cytogenetics:</b>	11 37.81 cM
<b>MW:</b>	26.9 kDa
<b>Gene Summary:</b>	Catalyzes the three sequential steps of the methylation pathway of phosphatidylcholine biosynthesis, the SAM-dependent methylation of phosphatidylethanolamine (PE) to phosphatidylmonomethylethanolamine (PMME), PMME to phosphatidyltrimethylethanolamine (PDME), and PDME to phosphatidylcholine (PC). [UniProtKB/Swiss-Prot Function]