

## Product datasheet for MR202005

### Pemt (NM\_008819) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pemt (NM\_008819) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pemt  
**Synonyms:** PEAMT; Pempt; Pempt2; PEMT2; PLMT  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR202005 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGCTGGCTGCTGGGTTACATGGACCCACAGAGCCAGCTTTGTGGCGGCTGTGATCACCATTGTGT  
 TCAACCCACTCTTCTGGAATGTGGTAGCGAGATGGGAGCAGAGAAGCTCGGAAGCTGAGCAGAGCCTTCGG  
 CTCACACAGGCTATGATGAGCCAGCCAAAGATGGAGGGCCTGGACAACCACACCCTACTTCTGGGCC  
 TTGCATTCTAGTTGGGATTCGTGTTTGTGCTGTCCAGCTTCTATGCACTGGGTTCACTGGGACCTT  
 TCTAGGTGACTACTTTGGGATCCTCAAGGAGTCCAGAGTGACCACATTTCCCTTCAGCGTCTGGATAAC  
 CCCATGTACTGGGCGAGTACAGCAACTACCTAGGCTGGGCACTCATGCATGCTAGTCCACAGGCTGCTG  
 TGTGACGGTCTGGTGGCAATTGTCTACGTGGTGTCTCTCTATATGAAGAGCCCTTCACTGCTGAGAT  
 CTACCGACAGAAAGCTACCAGGTTGCACAAAAGAAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR202005 protein sequence  
 Red=Cloning site Green=Tags(s)

MSWLLGYMDPTEPSFVAIVITIVFNPLFWNVVARWEQRTRKLSRAFGSPHLACYSLGICILLNLRSHC  
 FTQAMMSQPKMEGLDNHTTYFLGLAFLGWGFVFLSSFYALGFTGLFDYFGILKESRVTTFFPSVLDN  
 PMYWGSTANYLWALMHASPTGLLLTVLVAIVYVVALLYEEPFATAEIYRQKATRLHKRS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_008819

ORF Size: 600 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:
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: [NM\\_008819.3](#)

RefSeq Size: 1023 bp

RefSeq ORF: 600 bp

Locus ID: 18618

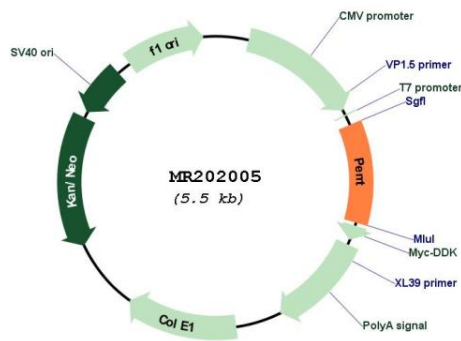
UniProt ID: [Q61907](#)

**Cytogenetics:** 11 37.81 cM

**MW:** 22.6 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]

**Product images:**



Circular map for MR202005