

Product datasheet for MR228459

Pemt (NM_001290012) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pemt (NM_001290012) 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: >MR228459 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCTGGCTGCTGGGTTACATGGACCCACAGAGCCAGCTTTGTGGCGGCTGTGATCACCATTGTGT
 TCAACCCACTCTTCTGGAATGTGGTAGCGAGATGGGAGCAGAGAAGCTCGGAAGCTGAGCAGAGCCTTCGG
 CTCACACAGGCTATGATGAGCCAGCCAAAGATGGAGGGCCTGGACAACCACACCCTACTTCTGGGCC
 TTGCATTCTAGTTGGGATTCGTGTTTGTGCTGTCCAGCTTCTATGCACTGGGGTTCCTGGGACCTT
 TCTAGGTGACTACTTTGGGATCCTCAAGGAGTCCAGAGTGACCACATTTCCCTTCAGCGTCTGGATAAC
 CCCATGTACTGGGCGAGTACAGCAACTACCTAGGCTGGGCACTCATGCATGCTAGTCCACAGGCTGC
 TGTGACGGTCTGGTGGCAATTGTCTACGTGGTTGCTCTCTATATGAAGAGCCCTTCACTGCTGAGAT
 CTACCGACAGAAAGCTACCAGGTTGCACAAAAGAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228459 protein sequence
 Red=Cloning site Green=Tags(s)

MSWLLGYMDPTEPSFVAAVITIVFNPLFWNVVARWEQRTRKLSRAFGSPHLACYSLGICILLNLRSHC
 FTQAMMSQPKMEGLDNHTTYFLGLAFLGWGFVFLSSFYALGFTGLGDYFGILKESRVTTFFPSVLDN
 PMYWGSTANYLWALMHASPTGLLLTVLVAIVYVVALLYEEPFTAIEIYRQKATRLHKRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001290012

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_001290012.1](#), [NP_001276941.1](#)

RefSeq Size: 985 bp

RefSeq ORF: 600 bp

Locus ID: 18618

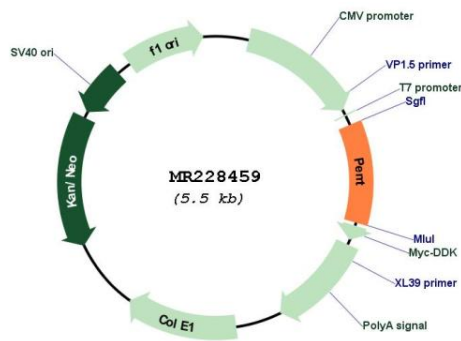
UniProt ID: [Q61907](#)

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 MR228459