

Product datasheet for **MG202005**

Pemt (NM_008819) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pemt (NM_008819) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pemt
Synonyms: PEAMT; Pempt; Pempt2; PEMT2; PLMT
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202005 representing NM_008819
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTGGCTGCTGGGTTACATGGACCCACAGAGCCAGCTTTGTGGCGGCTGTGATCACCATTGTGT
TCAACCCACTCTTCTGGAATGTGGTAGCGAGATGGGAGCAGAGAAGCTCGGAAGCTGAGCAGAGCCTTCGG
CTCCCCACCTAGCCTGCTATTCCTGGGCATCTGCATCCTGCTTTGAACATCCTCCGCTCCACTGC
TTCACACAGGCTATGATGAGCCAGCCAAAGATGGAGGGCCTGGACAACCACACCCTACTTCTGGGCC
TTGCATTCCTAGGTTGGGATTCGTGTTTGTGCTGTCCAGCTTCTATGCACTGGGTTCACTGGGACCTT
TCTAGGTGACTACTTTGGGATCCTCAAGGAGTCCAGAGTGACCACATTTCCCTTCAGCGTCTGGATAAC
CCCATGTACTGGGCGAGTACAGCAACTACCTAGGCTGGGCACTCATGCATGCTAGTCCACAGGCTGC
TGTTGACGGTGTGGTGGCAATTGTCTACGTGGTGTCTCTCTATATGAAGAGCCCTTCACTGCTGAGAT
CTACCGACAGAAAGCTACCAGGTTGCACAAAAGAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202005 representing NM_008819
Red=Cloning site Green=Tags(s)

MSWLLGYMDPTEPSFVAIVITIVFNPLFWNVVARWEQRTRKLSRAFGSPHLACYSLGICILLNLRSHC
FTQAMMSQPKMEGLDNHTTYFLGLAFLGWGFVFLSSFYALGFTGLFDYFGILKESRVTFPFSVLDN
PMYWGSTANYLGWALMHASPTGLLLTVLVAIVYVVALLYEEPTAEIYRQKATRLHKRS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

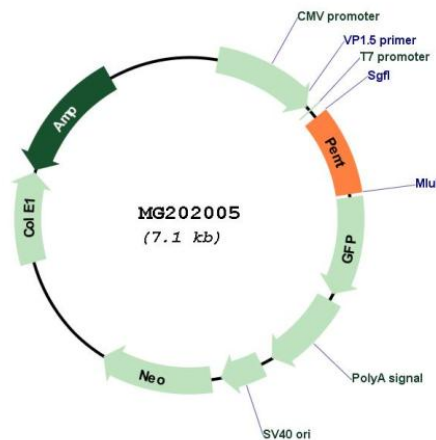


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Cloning Scheme:



Plasmid Map:



ACCN: NM_008819

ORF Size: 597 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: 848 bp

RefSeq ORF: 600 bp

Locus ID: 18618

UniProt ID: [Q61907](#)

Cytogenetics: 11 37.81 cM

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]