

## Product datasheet for **RC200787**

### PEAMT (PEMT) (NM\_148173) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PEAMT (PEMT) (NM_148173) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PEAMT
Synonyms:	PEAMT; PEMPT; PEMT2; PLMT; PNMT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200787 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGAGATCTGGGAACCCGGGAGCCGAGGTAACGAACAGCTCGGTGGCAGGGCCTGACTGCTGCGGAG  
GCCTCGGCAATATTGATTTTAGACAGGCAGACTTCTGCGTTATGACCCGGCTGCTGGGCTACGTGGACCC  
CCTGGATCCCAGCTTTGGGCTGCCGTCATCACCATCACCTTCAATCCGCTCTACTGGAATGTGGTTGCA  
CGATGGGAACACAAGACCCGCAAGCTGAGCAGGGCCTTCGGATCCCCCTACCTGGCCTGCTACTCTCTAA  
GCATCACCATCCTGCTCCTGAATTCTGCGCTCGCACTGCTTACGCAGGCCATGCTGAGCCAGCCCAG  
GATGGAGAGCCTGGACACCCCGCGGCCTACAGCCTGGGCTCGCGCTCCTGGGACTGGGCGTCGTGCTC  
GTGCTCTCCAGCTTCTTTGCACTGGGGTTCGCTGGAATTTCTAGGTGATTACTTCGGGATCCTCAAGG  
AGGCGAGAGTGACCGTGTCCCTTCAACATCCTGGACAACCCCATGTAAGGGGAAGCACAGCCAACTA  
CCTGGGCTGGGCCATCATGCACGCCAGCCCCACGGCCTGCTCCTGACGGTGCTGGTGGCCCTCACCTAC  
ATAATGGCTCTCCTATACGAAGAGCCCTTACCCTGAGATCTACCGGCAGAAAGCTCCGGTCCCACA  
AGAGGAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC200787 protein sequence  
Red=Cloning site Green=Tags(s)

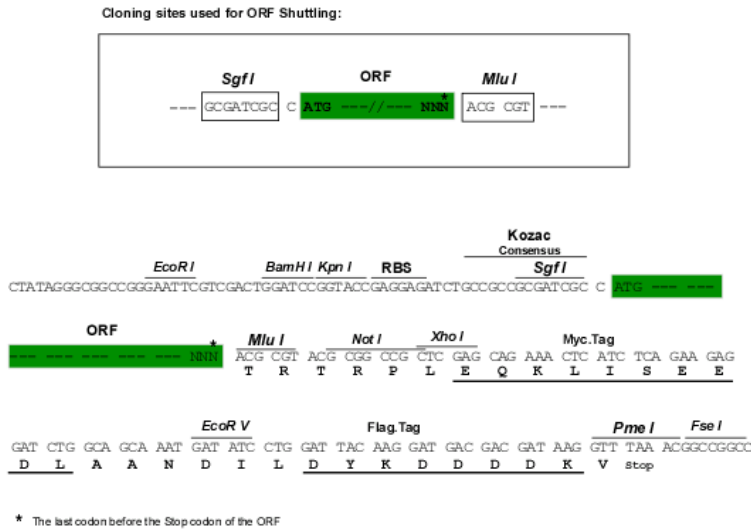
MKRSNGPGEVNTSSVAGPDCCGGLGNIDFRQADFCVMTRLLGYVDPLDPSFVAAVITITFNPLYWNVVA  
 RWEHKTRKLSRAFGSPYLACYSLSITILLNLFNRSHCFQAMLSPRMESLDTPAAYSLGLALLGLGVVL  
 VLSFFALGFAGTFLGDYFGILKEARVTVFPFNILDNPMYWGSTANYLGWAIMHASPTGLLLTVALTY  
 IMALLYEEPFTAETIYRQKASGSHKRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6066\\_c08.zip](https://cdn.origene.com/chromatograms/mk6066_c08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_148173

**ORF Size:** 711 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 Size:** 905 bp

**RefSeq ORF:** 600 bp

**Locus ID:** 10400

**UniProt ID:** [Q9UBM1](#)

**Cytogenetics:** 17p11.2

**Domains:** PEMT

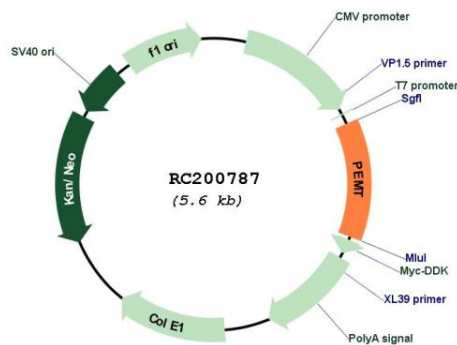
**Protein Families:** Transmembrane

**Protein Pathways:** Glycerophospholipid metabolism, Metabolic pathways

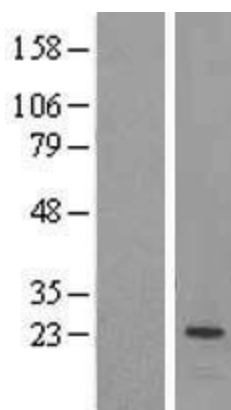
**MW:** 25.9 kDa

**Gene Summary:** Phosphatidylcholine (PC) is the most abundant mammalian phospholipid. This gene encodes an enzyme which converts phosphatidylethanolamine to phosphatidylcholine by sequential methylation in the liver. Another distinct synthetic pathway in nucleated cells converts intracellular choline to phosphatidylcholine by a three-step process. The protein isoforms encoded by this gene localize to the endoplasmic reticulum and mitochondria-associated membranes. Alternate splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2012]

### Product images:



Circular map for RC200787



Western blot validation of overexpression lysate (Cat# [LY407770]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200787 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).