OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC232158

PEAMT (PEMT) (NM_001267551) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEAMT (PEMT) (NM_001267551) 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:

>RC232158 representing NM_001267551
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGAGATCTGGGAACCCGGGAGCCGAGGCAGACTTCTGCGTTATGACCCGGCTGCTGGGCTACGTGG
ACCCCCTGGATCCCAGCTTTGTGGCTGCCGTCATCACCATCACCTTCAATCCGCTCTACTGGAATGTGGT
TGCACGATGGGAACACAAGACCCGCAAGCTGAGCAGGGCCTTCGGATCCCCCTACCTGGCCTGCTACTCT
CTAAGCGTCACCATCCTGCTCCTGAACTTCCTGCGCTCGCACTGCTTCACGCAGGCCATGCTGAGCCAGC
CCAGGATGGAGAGCCTGGACACCCCCGCGGCCTACAGCCTGGGCCTCGCGCTCCTGGGACTGGGCGTCGT
GCTCGTGCTCTCCAGCTTCTTTGCACTGGGGTTCGCTGGAACTTTCCTAGGTGATTACTTCGGGATCCTC
AAGGAGGCGAGAGTGACCGTGTTCCCCTTCAACATCCTGGACAACCCCATGTACTGGGGAAGCACAGCCA
ACTACCTGGGCTGGGCCATCATGCACGCCAGCCCCACGGGCCTGCTCCTGACGGTGCTGGTGGCCCTCAC
CTACATAGTGGCTCTCCTATACGAAGAGCCCTTCACCGCTGAGATCTACCGGCAGAAAGCCTCCGGGTCC
CACAAGAGGAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

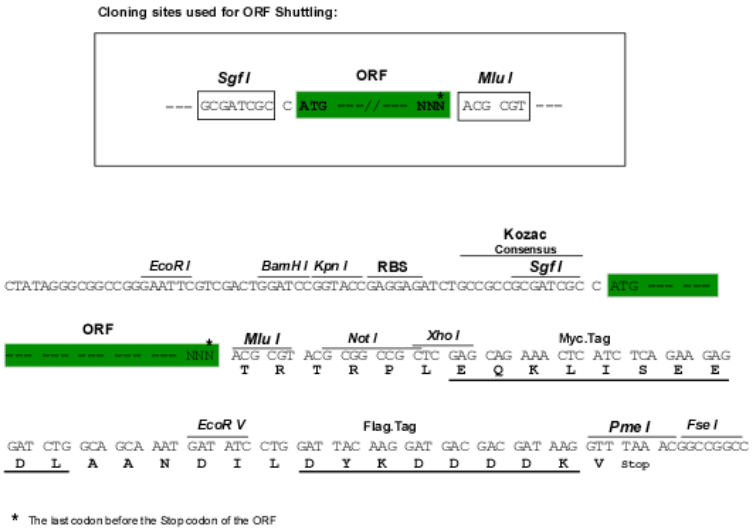
>RC232158 representing NM_001267551
Red=Cloning site Green=Tags(s)

MKRSGNPGAEADFCVMTRLLGYVDPLDPSFVAAVITITFNPLYWNVVARWEHKTRKLSRAFGSPYLACYS
LSVTILLLNFLRSHCFTQAMLSQPRMESLDTPAAYSLGLALLGLGVVLVLSSFFALGFAGTFLGDYFGIL
KEARVTVFPFNILDNPMYWGSTANYLGWAIMHASPTGLLLTVLVALTYIVALLYEEPFTAEIYRQKASGS
HKRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001267551

ORF Size: 642 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_001267551.2

RefSeq Size: 960 bp

RefSeq ORF: 645 bp

Locus ID: 10400

UniProt ID: Q9UBM1

Cytogenetics: 17p11.2

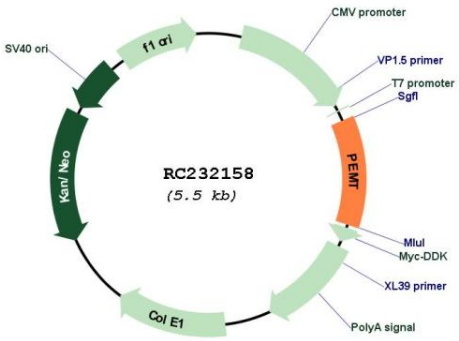
Protein Families: Transmembrane

Protein Pathways: Glycerophospholipid metabolism, Metabolic pathways

MW: 24.1 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 RC232158