

Product datasheet for **RC220492**

PEAMT (PEMT) (NM_148172) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEAMT (PEMT) (NM_148172) 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:	>RC220492 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGAAGAGATCTGGGAACCCGGGAGCCGAGGTAACGAACAGCTCGGTGGCAGGGCCTGACTGCTGCGGAGGCCTCGGCAATATTGATTTAGACAGGCAGACTTCTGCGTTATGACCCGGCTGCTGGGCTACGTGGACCCCTGGATCCCAGCTTTGGGCTGCCGTCATCACCATCACCTTCAATCCGCTCTACTGGAATGTGGTTGACGATGGGAACACAAGACCCGCAAGCTGAGCAGGGCCTTCGGATCCCCCTACCTGGCCTGCTACTCTCTAAGCATCACCATCCTGCTCCTGAACCTCCTGCGCTCGCACTGCTTACGCAGGCCATGCTGAGCCAGCCCAGATGGAGAGCCTGGACACCCCGCGGCCTACAGCCTGGGCTCGCGCTCCTGGGACTGGGCGTCGTGCTGTGCTCTCCAGCTTCTTTGCACTGGGGTTCGCTGGAACCTTCTAGGTGATTACTTCGGGATCCTCAAGGAGGCGAGAGTGACCGTGTCCCTTCAACATCCTGGACAACCCCATGTAAGGGGAAGCACAGCCAACTACCTGGGCTGGGCCATCATGCACGCCAGCCCCACGGCCTGCTCCTGACGGTGCTGGTGGCCCTCACCTACATAATGGCTCTCCTATACGAAGAGCCCTTACCCTGAGATCTACCGGCAGAAAGCTCCGGTCCCACAAGAGGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC220492 protein sequence
Red=Cloning site Green=Tags(s)

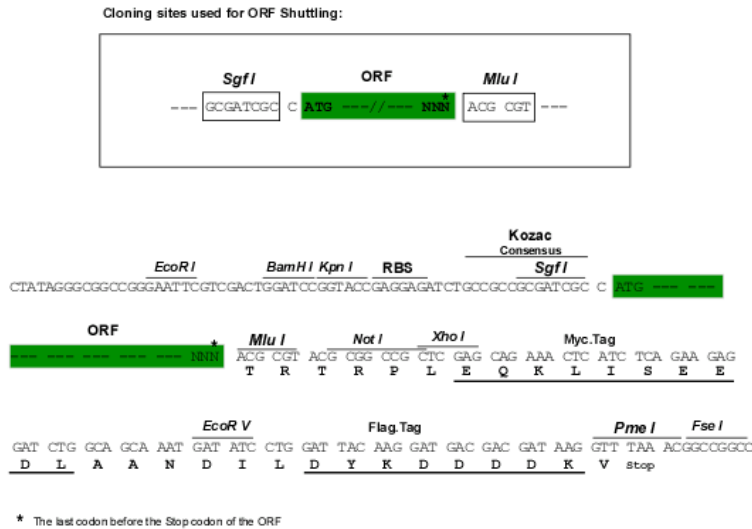
MKRSGNPGA EVTNSSVAGPDCCGGLGNIDFRQADFCVMTRLLGYVDPLDPSFVA AVITITFNPLYWNVVA
 RWEHKTRKLSRAF GSPYLACYSLSITILLNFLRSHCF TQAMLSQPRMESLDT PAAYSLGLALLGLGVVL
 VLSFFALGFAGTFLGDYFGILKEARVTVFPFNILDNPMYWGSTANYLGWAIMHASPTGLLLTVALTY
 IMALLYEEPFTA EIYRQKASGSHKRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6400_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_148172

ORF Size: 708 bp

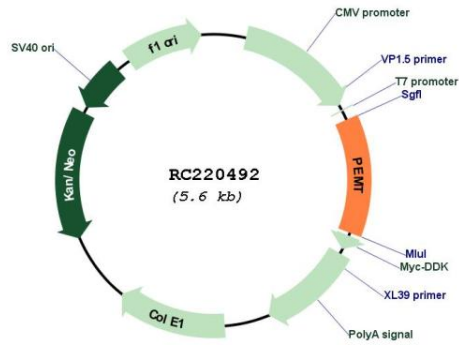
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

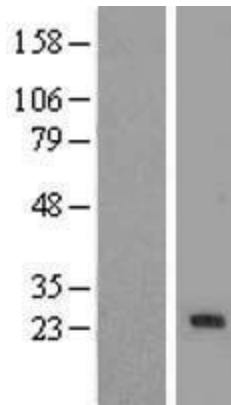
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">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_148172.3
RefSeq Size:	1026 bp
RefSeq ORF:	711 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 RC220492



Western blot validation of overexpression lysate (Cat# [LY407769]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220492 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).