

Product datasheet for **SC310611**

PEAMT (PEMT) (NM_148172) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEAMT (PEMT) (NM_148172) Human Untagged Clone
Tag:	Tag Free
Symbol:	PEAMT
Synonyms:	PEAMT; PEMPT; PEMT2; PLMT; PNMT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310611 representing NM_148172. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGAGATCTGGGAACCCGGGAGCCGAGGTAACGAACAGCTCGGTGGCAGGGCCTGACTGCTCGGGA
GGCCTCGGCAATATTGATTTTAGACAGGCAGACTTCTGCGTTATGACCCGGCTGCTGGGCTACGTGGAC
CCCCTGGATCCCAGCTTTGTGGCTGCCGTCATCACCATCACCTTCAATCCGCTCTACTGGAATGTGGTT
GCACGATGGGAACACAAGACCCGCAAGCTGAGCAGGGCCTTCGGATCCCCCTACCTGGCCTGCTACTCT
CTAAGCGTCACCATCCTGCTCCTGAACTCCTGCGCTCGCACTGCTTACGCAGGCCATGCTGAGCCAG
CCCAGGATGGAGAGCCTGGACACCCCGGGCCTACAGCCTGGGCTCGCGCTCCTGGGACTGGGCGTC
GTGCTCGTCTCCAGCTTCTTTGCACTGGGGTTCGCTGGAACCTTCTAGGTGATTACTTCGGGATC
CTCAAGGAGGCGAGAGTGACCGTGTTCCTTCAACATCCTGGACAACCCCATGTACTGGGAAGCACA
GCCAACTACCTGGGCTGGGCCATCATGCAGCCAGCCCCACGGGCTGCTCCTGACGGTGTGGTGGCC
CTCACCTACATAGTGGCTCTCCTATACGAAGAGCCCTTACCCTGAGATCTACCGGCAGAAAGCCTCC
GGGTCCCACAAGAGGAGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_148172
Insert Size:	711 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_148172.2
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:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). Isoform 1 localizes to the endoplasmic reticulum.</p>