

Product datasheet for **SC319360**

PEAMT (PEMT) (NM_148173) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEAMT (PEMT) (NM_148173) Human Untagged Clone
Tag:	Tag Free
Symbol:	PEAMT
Synonyms:	PEAMT; PEMPT; PEMT2; PLMT; PNMT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>>OriGene sequence for NM_148173.1</p> <pre>GGGGCGCGTGGCTGCAGCGGGGCCCGCGTGGTGCCTCCTGAGCGGCCCCCGGATGAAGA GATCTGGGAACCCGGGAGCCGAGGTAACGAACAGCTCGGTGGCAGGGCCTGACTGTGCG GAGGCCTCGGCAATATTGATTTTAGACAGGCAGACTTCTGCGTTATGACCCGGCTGCTGG GCTACGTGGACCCCTGGATCCCAGCTTTGTGGCTGCCGTCATCACCATCACCTTCAATC CGCTCTACTGGAATGTGGTTGCACGATGGGAACAAGACCCGCAAGCTGAGCAGGGCCT TCGGATCCCCCTACCTGGCCTGCTACTCTAAGCATCACCATCCTGCTCCTGAACTTCC TGCGCTCGCACTGCTTACGCAGGCCATGCTGAGCCAGCCAGGATGGAGAGCCTGGACA CCCCCGGGCCTACAGCCTGGGCTCGCGCTCCTGGGACTGGGCGTCGTGCTCGTCTCT CCAGCTTCTTTGCACTGGGGTTCGCTGGAACCTTCTAGGTGATTACTTCGGGATCCTCA AGGAGGCGAGAGTGACCGTGTTCCCTTCAACATCCTGGACAACCCCATGTACTGGGAA GCACAGCCAACCTACCTGGGCTGGCCATCATGCACGCCAGCCCCACGGGCTGCTCCTGA CGGTGCTGGTGGCCCTACCTACATAATGGCTCTCCTATACGAAGAGCCCTTACCAGCTG AGATCTACCGGCAGAAAGCCTCCGGTCCCACAAGAGGAGCTGATTGAGCTGCAACAGCT TTGCTGAAGGCCTGGCCAGCCTCCTGGCCTGCCCAAGTGGCAGGCCCTGCGCAGGGCGA GAATGGTGCCTGCTGCTCAGGGCTCGCCCCGGCGTGGGCTGCCCAAGTGCCTTGGAAAC TGCTGCCTTGGGACCCCTGGACGTGCCGACATATGGCCATTGAGCTCCAACCCACACATT CCCATTACCAATAAAGGCACCCCTGACCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAA</pre>
Restriction Sites:	Please inquire
ACCN:	NM_148173



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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_148173.1 , NP_680478.1
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
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 (3) differs in the 5' UTR and uses a downstream start codon compared to variant 1. Variants 2 and 3 encode the same isoform (2). Isoform 2 localizes to mitochondria-associated membranes.</p>