

Product datasheet for **SC115659**

PEAMT (PEMT) (NM_007169) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEAMT (PEMT) (NM_007169) Human Untagged Clone
Tag:	Tag Free
Symbol:	PEAMT
Synonyms:	PEAMT; PEMPT; PEMT2; PLMT; PNMT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115659 sequence for NM_007169 edited (data generated by NextGen Sequencing)

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ATGACCCGGCTGCTGGGCTACGTGGACCCCTGGATCCCAGCTTTGTGGCTGCCGTCATC
ACCATCACCTTCAATCCGCTCTACTGGAATGTGGTTGCACGATGGGAACACAAGACCCGC
AAGCTGAGCAGGGCCTTCGGATCCCCCTACCTGGCCTGCTACTCTCTAAGCGTCACCATC
CTGCTCCTGAACTTCTGCGCTCGCACTGCTTCACGCAGGCCATGCTGAGCCAGCCCAGG
ATGGAGAGCCTGGACACCCCGCGGCTACAGCCTGGGCCTCGCGCTCCTGGGACTGGGC
GTCGTGCTCGTCTCCAGCTTCTTTGCACTGGGGTTCGCTGGAACCTTCTAGGTGAT
TACTTCGGGATCCTCAAGGAGGCGAGAGTGACCGTGTTCCTTCAACATCCTGGACAAC
CCCATGTACTGGGAAGCACAGCCAACCTGGGCTGGGCCATCATGCACGCCAGCCCC
ACGGGCCTGCTCCTGACGGTGTGGTGGCCCTCACCTACATAATGGCTCTCTATACGAA
GAGCCCTTCAACCGCTGAGATCTACCGGCAGAAAGCCTCCGGTCCCAAGAGGAGCTGA
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Clone variation with respect to NM_007169.2
523 g=>a



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_007169 unedited</p> <p>GAGGTGCACATTTGTATACGACTCCTATAGGCGGCCGCGNAATTCGGCACGAGGTGCAGC GGGGCCCGCGTGGTGCCTCNCTGAGCGGCCCGGATGAAGAGATCTGGGAACCCGGGAG CCGAGGTAACGAACAGCTCGGTGGCAGGGCCTGACTGCTGCGGAGGCCTCGGCAATATTG ATTTTAGACAGGCAGACTTCTGCGTTATGACCCGGCTGCTGGGCTACGTGGACCCCTGG ATCCCAGCTTTGTGGCTGCCGTCACCATCACCTTCAATCCGCTCTACTGGAATGTGG TTGCACGATGGGAACACAAGACCCGCAAGCTGAGCAGGGCCTTCGGATCCCCCTACCTGG CCTGCTACTCTTAAGCGTCACCATCCTGCTCCTGAACTTCTGCGCTCGCACTGCTTCA CGCAGGCCATGCTGAGCCAGCCAGGATGGAGAGCCTGGACACCCCGCGGCCTACAGCC TGGGCCTCGCGCTCCTGGGACTGGGCGTCGTGCTCGTCTCCAGCTTCTTTGCACTGG GGTTTCGCTGGAACTTTCTAGGTGATTACTTCGGGATCCTCAAGGAGGCGAGAGTGACCG TGTTCCCTTCAACATCCTGGACAACCCCATGACTGGGAAGCACAGCCAACACTACCTGG GCTGGCCATCATGCACGCCAGCCACGGCCTGCTCCTGACGGTGTGGTGGCCCTCA CCTACATAATGGCTCTCCTATACGAAGAGCCCTTACCCTGAGATCTACCGGCAGAAA CCTCCGGTCCCACAAGAGGAGTGATTGAGCTGCCACAGCTTTCCTGAAGGCCTGGCC AGCCTCCTGGCCTGCCAGTGGCAAGCCCTGCGCAGGACGAGAAATGTTGCCTGTGCTC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_007169 unedited</p> <p>AAAACCTTTGGGTGGCCTTTTATGGTGACTGGGAATGTGTGGGTTGGAGCTCAAGGCCTAT GTCGGCACGTCCAGTCCCAAGCAGCAGGTTCCAAGGCACTGGGGCAGCCACGCCGGG GGCGAGCCCTGAGCAGCAGGCACCATCTCGCCCTGCGCAGGGCCTGCCACTTGGGGCAG GCCAGGAGGCTGGCCAGGCCTTCCAGCAAAGCTGTTGCAGCTCAATCAGCTCCTTGTGG GACCCGGAGGCTTCTGCGGTAGATCTCAGCGTGAAGGGCTCTTCGTATAGGAGAGCC ATTATGTAGGTGAGGGCCACCAGCACCGTCAGGAGCAGGCCCGTGGGGCTGGCGTGCATG ATGGCCAGCCAGGTAGTTGGCTGTGCTTCCCAAGTACATGGGGTTGTCCAGGATGTTG AAGGGGAACACGGTCACTCTCGCCTCCTTGAAGATCCCAGGAATACCTAGGAAAGTT CCAGCGAACCCAGTGCAAGAAGCTGGAGAGCACGAGCACGCCAGTCCCAGGAGC GCGAGGCCCAGGCTGTAGGCCGCGGGGTGTCCAGGCTCTCCATCCTGNGCTGGCTCAGC ATGGCCTCGTGAAGCAGTGGCAGCGCAGGAAGTTCAGGAGCAGGATGGTGACGCTTAGA GAGTAGCAGGCCAGGTAGGGGATCCNGAAGCCCTGCTCAGCTTCCGGGTCTTGTNGTCC CATCGTGCAACCACATTCAGTAAAGCGGATTGAAGGTGATGGTGATGACGGCAGCCACA AAGCTGGGATCCAGGGGTCCACGTAGCCAGCAGCCGGGTATAACGCAGAAAGTCTGCC TGTCTAAAATCAATATTGCCGAGGCCTNCGCAGCAGTCAGGCCCTGCACCGAGCTGTC GNTACCTCGGCTCCAGGTTCCAGATCTCTA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_007169
Insert Size:	1000 bp
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).
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_007169.2 , NP_009100.2
RefSeq Size:	1008 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 (2) 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>