

## Product datasheet for **RG223190**

### PEAMT (PEMT) (NM\_007169) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PEAMT (PEMT) (NM_007169) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PEAMT
Synonyms:	PEAMT; PEMPT; PEMT2; PLMT; PNMT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223190 representing NM_007169 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGAGATCTGGGAACCCGGGAGCCGAGGTAACGAACAGCTCGGTGGCAGGGCCTGACTGCTGCGGAG  
GCCTCGGCAATATTGATTTAGACAGGCAGACTTCTGCGTTATGACCCGGCTGCTGGGCTACGTGGACCC  
CCTGGATCCCAGCTTTGGGCTGCCGTCATCACCATCACCTTCAATCCGCTCTACTGGAATGTGGTTGCA  
CGATGGGAACACAAGACCCGCAAGCTGAGCAGGGCCTTCGGATCCCCCTACCTGGCCTGCTACTCTCTAA  
GGTCCACCATCCTGCTCCTGAATTCTGCGCTCGCACTGCTTACGCAGGCCATGCTGAGCCAGCCCAG  
GATGGAGAGCCTGGACACCCCGCGGCCTACAGCCTGGGCTCGCGCTCCTGGGACTGGGCGTCGTGCTC  
GTGCTCTCCAGCTTCTTTGCACTGGGGTTCGCTGGAACCTTCTAGGTGATTACTTCGGGATCCTCAAGG  
AGGCGAGAGTGACCGTGTCCCTTCAACATCCTGGACAACCCCATGTAAGGGGAAGCACAGCCAACTA  
CCTGGGCTGGGCCATCATGCACGCCAGCCCCACGGCCTGCTCCTGACGGTGCTGGTGGCCCTCACCTAC  
ATAATGGCTCCTATACGAAGAGCCCTTACCCTGAGATCTACCGGCAGAAAGCTCCGGTCCCACA  
AGAGGAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG223190 representing NM\_007169  
 Red=Cloning site Green=Tags(s)

MKRSGNPGA EVTNSSVAGPDCCGGLGNIDFRQADFCVMTRLLGYVDPLDPSFVAAVITITFNPLYWNVVA  
 RWEHKTRKLSRAFGSPYLACYLSVTILLNLFNRSHCFTQAML SQPRMESLDTPAAYSLGLALLGLGVVL  
 VLSSFFALGFAGTFLGDYFGILKEARVTVFPFNILDNPMYWGSTANYLGWAIMHASPTGLLLTVALTY  
 IMALLYEEPFTA EIYRQKASGSHKRS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007169

**ORF Size:** 708 bp

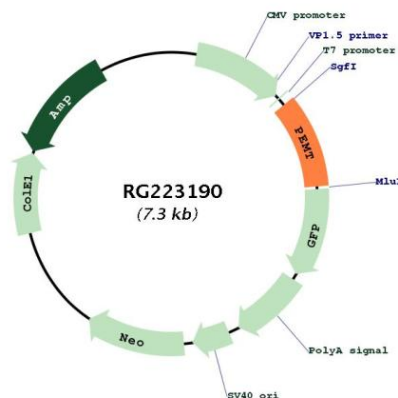
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone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

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_007169.2</a> , <a href="#">NP_009100.2</a>
<b>RefSeq Size:</b>	1008 bp
<b>RefSeq ORF:</b>	600 bp
<b>Locus ID:</b>	10400
<b>UniProt ID:</b>	<a href="#">Q9UBM1</a>
<b>Cytogenetics:</b>	17p11.2
<b>Domains:</b>	PEMT
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Glycerophospholipid metabolism, Metabolic pathways
<b>Gene Summary:</b>	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 RG223190