

## Product datasheet for **RG232222**

### PEAMT (PEMT) (NM\_001267552) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PEAMT (PEMT) (NM_001267552) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PEMT
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:	>RG232222 representing NM_001267552 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGAGATCTGGGAACCCGGGAGCCGAGGTAACGAACAGCTCGGTGGCAGGGCCTGACTGCTGCGGAG  
GCCTCGGCAATATTGATTTAGACAGGCAGACTTCTGCGTTATGACCCGGCTGCTGGGCTACGTGGACCC  
CCTGGATCCCAGCTTTGGGCTGCCGTCATCACCATCACCTTCAATCCGCTCTACTGGAATGTGGTTGCA  
CGATGGGAACACAAGACCCGCAAGCTGAGCAGGGCCTTCGGATCCCCCTACCTGGCCTGCTACTCTCTAA  
GGTCCACCATCCTGCTCCTGAATTCTGCGCTCGCACTGCTTACGCAGGCCATGCTGAGCCAGCCCAG  
GATGGAGAGCCTGGACACCCCGCGGCCTACAGCCTGGGCTCGCGCTCCTGGGACTGGGCGTCGTGCTC  
GTGCTCTCCAGCTTCTTTGCACTGGGGTTGCTGGAACCTTCTAGGTGATTACTTCGGGATCCTCAAGG  
AGGCGAGAGTGACCGTGTCCCTTCAACATCCTGGACAACCCCATGTAAGGGGAAGCACAGCCAACTA  
CCTGGGCTGGGCCATCATCCCAGCACCTGCGGGAGCTGTGGGATCAGAGGCACGCCAGCCCCACGGGCT  
GCTCCTGACGGTGCTGGTGGCCCTCACCTACATAGTGGCTCTCCTATACGAAGAGCCCTTACCCGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG232222 representing NM\_001267552  
Red=Cloning site Green=Tags(s)

MKRSGNPGA EVTNSSVAGPDCCGGLGNIDFRQADFCVMTRLLGYVDPLDPSFVA AVITITFNPLYWNVVA  
 RWEHKTRKLSRAF GSPYLACYSLSVTILLNLF RSHCF TQAML SQPRMESLDT PAAYS LGLALLGLGVVL  
 VLSSFFALGFAGTFLGDYFGILKEARVTVFPFNILDNPMYWGSTANYLGWAIIPAPAGAVGSEARQPHGP  
 APDGAGGPHLHSGSPIRRALHR

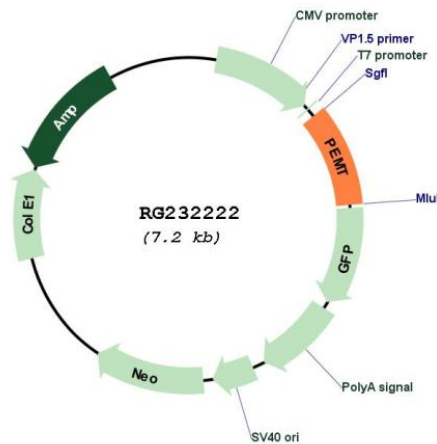
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001267552

**ORF Size:** 696 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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_001267552.2</a>
<b>RefSeq Size:</b>	1057 bp
<b>RefSeq ORF:</b>	699 bp
<b>Locus ID:</b>	10400
<b>UniProt ID:</b>	<a href="#">Q9UBM1</a>
<b>Cytogenetics:</b>	17p11.2
<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]