

## Product datasheet for **SC332167**

### PCMT1 (NM\_001252049) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PCMT1 (NM\_001252049) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PCMT1  
**Synonyms:** PIMT  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332167 representing NM\_001252049.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGCCGGGAGCGCGCAGTGGCGGCAGCGGCGGCAGGCAGTAAACAGCGGCAGCTACAGCGGGGACGCG  
AGCGGGGCGGTGACGGTGTGGGAGGTGGTCTCACTCTTGGGAAAAGTCTGGGCACCGTCGTCGCGCTG  
AAGGTGGTTCTGTACCTGCTCCGAGTGTGCTTAGCGATGGCCTGGAAATCCGGCGGCCAGCCACTCG  
GAGCTAATCCACAATCTCCGAAAAATGGAATCATCAAGACAGATAAAGTATTTGAAGTGATGCTGGCT  
ACAGACCGCTCCCACTATGCAAAATGTAACCCATACATGGATTCTCCACAATCAATAGGTTTCCAAGCA  
ACAATCAGTGCTCCACACATGCATGCATATGCGCTAGAACTTCTATTTGATCAGTTGCATGAAGGAGCT  
AAAGCTCTTGATGTAGGATCTGGAAGTGAATCCTTACTGCATGTTTTGCACGTATGGTTGGATGTACT  
GGAAAAGTCATAGGAATTGATCACATTAAGAGCTAGTAGATGACTCAGTAAATAATGTCAGGAAGGAC  
GATCCAACACTTCTGTCTTCAGGGAGAGTACAGCTTGTGTGGGGATGGAAGAATGGGATATGCTGAA  
GAAGCCCCTTATGATGCCATTATGTGGGAGCTGCAGCCCTGTTGTACCCAGGCGCTAATAGATCAG  
TTAAAGCCCGGAGGAAGATTGATATTGCCTGTTGGTCTGCAGGCGGAAACCAATGTTGGAGCAGTAT  
GACAAGCTACAAGATGGCAGCATCAAAATGAAGCCTCTGATGGGGGTGATATACGTGCCTTAAACAGAT  
AAAGAAAAGCAGTGGTCCAGGGATGAATTGTAA
```

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001252049  
**Insert Size:** 861 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:**

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\\_001252049.1](#)

**RefSeq Size:** 1704 bp

**RefSeq ORF:** 861 bp

**Locus ID:** 5110

**UniProt ID:** [P22061](#)

**Cytogenetics:** 6q25.1

**Protein Families:** Druggable Genome

**MW:** 30.4 kDa

**Gene Summary:** This gene encodes a member of the type II class of protein carboxyl methyltransferase enzymes. The encoded enzyme plays a role in protein repair by recognizing and converting D-aspartyl and L-isoaspartyl residues resulting from spontaneous deamidation back to the normal L-aspartyl form. The encoded protein may play a protective role in the pathogenesis of Alzheimer's disease, and single nucleotide polymorphisms in this gene have been associated with spina bifida and premature ovarian failure. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Oct 2011]

Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region, which results in a frameshift compared to variant 1. The encoded isoform (2) has a longer and distinct C-terminus, compared to isoform 1.