

## Product datasheet for **RC233647**

### PCMT1 (NM\_001252053) Human Tagged ORF Clone

#### Product data:

|                           |                                                                                |
|---------------------------|--------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                            |
| Product Name:             | PCMT1 (NM_001252053) Human Tagged ORF Clone                                    |
| Tag:                      | Myc-DDK                                                                        |
| Symbol:                   | PCMT1                                                                          |
| Synonyms:                 | PIMT                                                                           |
| Mammalian Cell Selection: | Neomycin                                                                       |
| Vector:                   | pCMV6-Entry (PS100001)                                                         |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                           |
| ORF Nucleotide Sequence:  | >RC233647 representing NM_001252053<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGCCGGGAGCGCGCAGTGGCGGCAGCGCGGCACGGCAGTAACAGCGGCAGCTACAGCGGGACGCGA  
 GCGGGCGGTGACGGTGTGGGAGGTGGTCTCACTCTTGGGAAACTGCTGGGCACCGTCGTCGCGCTGAA  
 GGTGGTTCTGTACCTGCTCCGAGTGTGCTTAGCGATGGCCTGGAAATCCGGCGGCCAGCCACTCGGAG  
 CTAATCCACAATCTCCGAAAAATGGAATCATCAAGACAGATAAAGTATTTGAAGTGATGCTGGCTACAG  
 ACCGCTCCCACTATGCAAAATGTAACCCATACATGGATTCTCCACAATCAATAGGTTTCCAAGCAACAAT  
 CAGTGCTCCACACATGCATGCATATGCGCTAGAACTTCTATTTGATCAGTTGCATGAAGGAGCTAAAGCT  
 CTTGATGTAGGATCTGGAAGTGAATCCTTACTGCATGTTTTGCACGTATGGTTGGATGTACTGGAAAAG  
 TCATAGGAATTGATCACATTAAGAGCTAGTAGATGACTCAGTAAATAATGTGAGGAAGGACGATCCAAC  
 ACTTCTGTCTTCAGGGAGAGTACAGCTTGTGTGGGGGATGGAAGAATGGGATATGCTGAAGAAGCCCT  
 TATGATGCCATTCATGTGGGAGCTGCAGCCCCTGTTGTACCCAGGCGCTAATAGATCAGTTAAAGCCCG  
 GAGGAAGATTGATATTGCCTGTTGGTCTGCAGGCGGAAACCAATGTTGGAGCAGTATGACAAGCTACA  
 AGATGGCAGCATCAAAATGAAGCCTCTGATGGGGTGATATACGTGCCTTTAACAGATAAAGAAAAGCAG  
 TGGTCCAGGTGGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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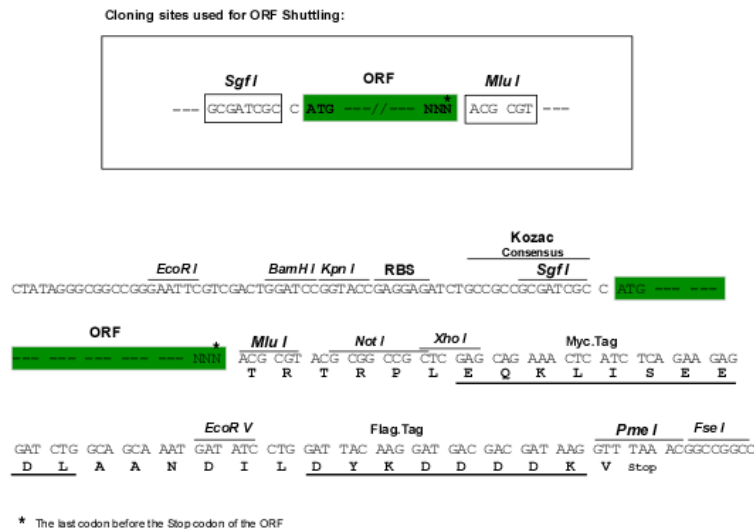
**Protein Sequence:** >RC233647 representing NM\_001252053  
 Red=Cloning site Green=Tags(s)

MPGARSGSGDGSNSGSGDASGAVTVWEVVSLLGKLLGTVVALKVVLVLLRVCLAMAWKSGGASHSE  
 LIHNLKNGIIKTDKVFVEMLATDRSHYAKNPYMDSPQSIGFQATISAPHHAYALELLFDQLHEGAKA  
 LDVSGSGGILTACFARMVGCTGKVIIGIDHIKELVDDSVNNVRKDDPTLLSSGRVQLVVGDRMGYAEAP  
 YDAIHVGAAAPVVPQALIDQLKPGGRLILPVGPAAGNQMLEQYDKLQDGSIKMKPLMGVIYVPLTDEKQ  
 WSRWK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001252053

**ORF Size:** 855 bp

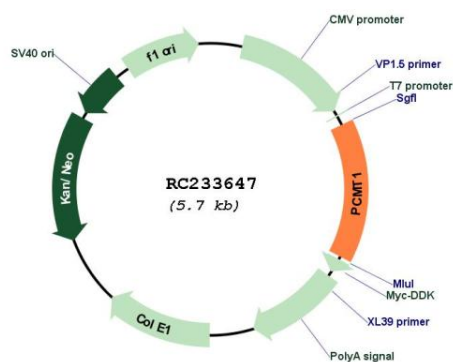
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>RefSeq:</b>                | <u>NM_001252053.1, NP_001238982.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>RefSeq Size:</b>           | 1065 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>RefSeq ORF:</b>            | 858 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Locus ID:</b>              | 5110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>UniProt ID:</b>            | <u>P22061</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>          | 6q25.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Protein Families:</b>      | Druggable Genome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>MW:</b>                    | 30.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Gene Summary:</b>          | <p>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]</p> |

## Product images:



Circular map for RC233647