

Product datasheet for **SC327775**

PCMT1 (NM_005389) Human Untagged Clone

Product data:

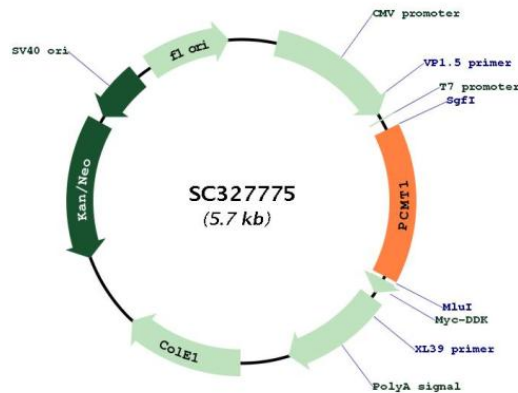
Product Type:	Expression Plasmids
Product Name:	PCMT1 (NM_005389) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCMT1
Synonyms:	PIMT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC327775 representing NM_005389. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCCGGGAGCGCGCAGTGGCGGCAGCGCGGCAGCGCAGTAACAGCGGCAGCTACAGCGGGGACGCG
AGCGGGGGCGGTGACGGTGTGGGAGGTGGTCTCACTCTTGGGAAAAGTCTGGGCACCGTCGTCGCGCTG
AAGGTGGTTCTGTACCTGCTCCGAGTGTGCTTAGCGATGGCCTGGAAATCCGGCGCGCCAGCCACTCG
GAGCTAATCCACAATCTCCGAAAAATGGAATCATCAAGACAGATAAAGTATTTGAAGTGATGCTGGCT
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AAAGCTCTTGATGTAGGATCTGGAAGTGAATCCTTACTGCATGTTTTGCACGTATGGTTGGATGTACT
GGAAAAGTCATAGGAATTGATCACATTAAGAGCTAGTAGATGACTCAGTAAATAATGTCAGGAAGGAC
GATCCAACACTTCTGTCTTCAGGGAGAGTACAGCTTGTGTGGGGGATGGAAAGATGGGATATGCTGAA
GAAGCCCCTTATGATGCCATTATGTGGGAGCTGCAGCCCTGTTGTACCCAGGCGCTAATAGATCAG
TTAAAGCCCGGAGGAAGATTGATATTGCCTGTTGGTCTGCAGGCGGAAACCAATGTTGGAGCAGTAT
GACAAGCTACAAGATGGCAGCATCAAAATGAAGCCTCTGATGGGGTGATATACGTGCCTTAAACAGAT
AAAGAAAAGCAGTGGTCCAGGTGGAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN: NM_005389

Insert Size: 858 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_005389.2](#)

RefSeq Size: 1751 bp

RefSeq ORF: 858 bp

Locus ID:	5110
UniProt ID:	P22061
Cytogenetics:	6q25.1
Domains:	PCMT
Protein Families:	Druggable Genome
MW:	30.3 kDa
Gene Summary:	<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> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1 and 6 encode the same isoform (1).</p>