

## **Product datasheet for RC200327**

## PCMT1 (NM\_005389) Human Tagged ORF Clone

PCMT1

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** PCMT1 (NM\_005389) Human Tagged ORF Clone

Tag: Myc-DDK

Synonyms: PIMT

Mammalian Cell Neomycin

Selection:

Symbol:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC200327 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC200327 protein sequence

Red=Cloning site Green=Tags(s)

MAWKSGGASHSELIHNLRKNGIIKTDKVFEVMLATDRSHYAKCNPYMDSPQSIGFQATISAPHMHAYALE LLFDQLHEGAKALDVGSGSGILTACFARMVGCTGKVIGIDHIKELVDDSINNVRKDDPTLLSSGRVQLVV GDGRMGYAEEAPYDAIHVGAAAPVVPQALIDQLKPGGRLILPVGPAGGNQMLEQYDKLQDGSIKMKPLMG VIYVPLTDKEKQWSRWK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk6408">https://cdn.origene.com/chromatograms/mk6408</a> a12.zip

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 



CTATAGGGCGGCCGC	_EcoR! GAATTCGTC		HI Kpn I	RBS	rctgcc			: c 🖪	TG -	
ORF	MNN	Miui Acg cgi T R			Chol CGAG E	CAG AA Q K		a.Tag ATC	TCA S	GAA GAG E E
GAT CTG GCA GCA		ATC CTG		Flag.Tag AAG GAT K D	GAC D	GAC GAT D D	AAG K	GTT	TAA stop	Fse I ACGGCCGGCC

<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_005389

ORF Size: 681 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).



**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 005389.1</u>, <u>NP 005380.1</u>

RefSeq Size: 1751 bp
RefSeq ORF: 858 bp
Locus ID: 5110
UniProt ID: P22061
Cytogenetics: 6q25.1
Domains: PCMT

**Protein Families:** Druggable Genome

**MW:** 24.7 kDa

**Gene Summary:** This gene encodes a member of the type II class of protein carboxyl methyltransferase

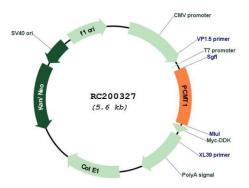
enzymes. The encoded enzyme plays a role in protein repair by recognizing and converting D-aspartyl and L-isoaspartyl residues resulting from spontaneous deamidation back to the normal L-aspartyl form. The encoded protein may play a protective role in the pathogenesis

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,

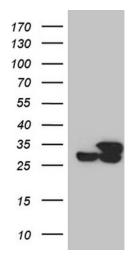
Oct 2011]



## **Product images:**

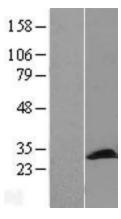


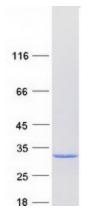
Circular map for RC200327



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PCMT1 (Cat# RC200327, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PCMT1 (Cat# [TA809966])(1:2000). Positive lysates [LY432164] (100ug) and [LC432164] (20ug) can be purchased separately from OriGene.







Western blot validation of overexpression lysate (Cat# [LY417343]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200327 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified PCMT1 protein (Cat# [TP300327]). The protein was produced from HEK293T cells transfected with PCMT1 cDNA clone (Cat# RC200327) using MegaTran 2.0 (Cat# [TT210002]).