

Product datasheet for **SC108181**

PIMT (TGS1) (NM_024831) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIMT (TGS1) (NM_024831) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIMT
Synonyms:	NCOA6IP; PIMT; PIPMT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_024831 edited
ATGTGCTGCGAGAAGTGGAGCCGCTGGCGGAAATGTTTCTTCTCACTGAGGAGCGGGAG
GATTGTAAGATACTGTGCCTTTGCTCCAGGGCATTGTGGAGGATCGAAAATTGTACAAT
TTGGGATTAAGGCTATTACATCAGAGACAGTGGCAACAATTCAGGAGACCAGGGCACA
GAAGAAGAGGAAGGTGGTTATTCCTGTGGTACTGCAGAATCACATGACAGCAAAGGCATA
GGCCTGGATGAAAGTGAACCTGATTCTGAGGCTGAACCTCATGAGAAGTATGGGATTGCCA
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GAACAGTATGAGAACACCAGAACATATGAACCTCAAAGCAAAAAAGATACTGAGACAGAA
AATCCTCCAGTTGAAAACACATTATCTCAAAGCTAGAAATTACAGAGAAATGGGAAAAG
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CAAGCACTATCTTGAACCTTGGAACTTCTGATACAAAGGAAGAATGGGAGCAACAT
TATAGTCAACTTTATTGGTATTATTTGGAACAATTTAGTATTGGGAAGCTCAGGGTTGG
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AACACAGACCCACCAGCTGAGGATTCACAGAAGTCTTCAGGAGCAAAACAAGCAAAAGAC
AGACCACATGCCAGTGGTACTGATGGAGATGAAAGTGAGGAAGACCCACCTGAGCATAAG
CCAAGCAACTGAAGAGGAGCCATGAACTGGACATTGATGAAAACCCAGCTTCAGACTTT
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TACCTAGACATGCGCAGACAAAATAAAGATGAAAAACAACACATCTTCTTACCAAAGAG
TCAGAAAAACCATTTTTCAAGAAAAGCAAAATTCTGAGTAAGGTAGAAAAATTCCTCACA
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CACGACGCTTCCACAAGTAGTGATTGAGGGAACAAGACATGTCTGTTAAAAAAGGTGAT
GACCTACTGGAGACTAATAATCCAGAACCTGAAAAGTGCAGAGCGTATCTTCAGCTGGT
GAACCTGAAAACAGAAAATATGAAAGAGACAGCTTGTAGCAACTGTTCCAGATGAGCAG
GATTGTGTTACTCAAGAAGTGCCAGACTCCCGCCAGGCAGAAACTGAAGCTGAAGTGAAA
AAGAAGAAGAACAAGAAGAACAACAAAAGGTGAATGGTCTGCCTCCTGAAATAGCTGCT
GTTCTGAGCTGGCAAAATACTGGGCCAGAGGTACAGGCTCTTCTCCCGTTTTGATGAT
GGGATTAAGTTGGACAGAGAGGGCTGGTTTTTCAAGTTACACCCGAGAAGATTGCTGAACAC
ATTGCTGGCCGTGTTAGTCAGTCTTCAAGTGTGACGTTGTAGTAGACGCATTCTGTGGA
GTTGGAGGAAATACCATTAGTTGCCTTAACAGGAATGAGAGTGATTGCCATTGATATC
GATCCTGTTAAGATTGCCCTTGTGCGCAATAATGCAGAAGTTTATGGGATAGCAGATAAG
ATAGAGTTCATCTGTGGAGATTTCTTGTGCTGGCTTCTTTTTAAAGGCTGATGTTGTG
TTCTCAGCCACCTTGGGAGGGCCAGACTATGCCACTGCAGAGACCTTTGACATTAGA
ACAATGATGTCTCTGATGGCTTTGAAATTTTCAACTTTCTAAGAAGATCACTAATAAT
ATTGTTTATTTTCTTCAAGAAATGCTGATATTGACCAGGTGGCATCCTTAGCTGGGCT
GGAGGGCAAGTGGAATAGAACAGAACTTCTTAAACAACAATTTGAAGACAATCACTGCA
TATTTTGGTGACCTAATTCGAAGACCAGCCTCTGAAACCTAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_024831 unedited NNTTCTTTTCAACCCGCCCGTTGCCGCTAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATA TAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGG CCGCGAATTCGGCACGAGGCTTCCGGCGGCAGCGTCCGGGCTAGTTCTGGCGCGAGCGG CCGCGGGCCAGTTTCTATCTCCTCATCCAGGGCTTGGCGGCGAGGCCTGTTTTAAGTCTC CAGTAACCGAGCGGAGGCCCGGCAGGCGCGACCCGGGCTGCGTACGTACAGAGCTGCCTCC GAAGTGGTAAAAATGTGCTGCGAGAAGTGGAGCCGCTGGCGGAAATGTTTTCTCTTCACTG AGGAGCGGGAGGATTGTAAGATACTGTGCCTTTGCTCCAGGGCATTGTGGAGGATCGAA AATTGTACAATTTGGGATTTAAAAGGCTATTACATCAGAGACAGTGGCAACAATTCAGGAG ACCAGGCGACAGAAGAAGAGGAAGGTGGTTATTCTGTGGTACTGCAGAATCACATGACA GCAAAGGCATAGGCCTGGATGAAAGTGAAGTGGTCTGAGGCTGAACTCATGAGAAGTA TGGGATTGCCACTTCAATTTGGTAGGATAACTGCACATAAGGATTTTGGGTATCTATGA ATACTANGAATAAAGTTAAAATAAAAAAGAAAAAACATCAAAGAAATACTTAGATGAAA TTGTGCAAGAATCTTGGAGAAAAGATATNGAGAAGACGACATTTTGGCTTCAGATGATCC CATCTTCATTGNACAGTATGAGAACACCAGNACATATGAACTTCAAAGCAAAAAGATACT GAGACAGAAAACCTCCAGTTGAAACACATTATCTCCAAGCTGNAATTTACGAGAATGGGA AAG
Restriction Sites:	NotI-NotI
ACCN:	NM_024831
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:	<ol style="list-style-type: none"> 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_024831.5 , NP_079107.5
RefSeq Size:	3798 bp
RefSeq ORF:	3708 bp
Locus ID:	96764
UniProt ID:	Q96RS0
Cytogenetics:	8q12.1
Protein Families:	Druggable Genome

Gene Summary:

Catalyzes the 2 serial methylation steps for the conversion of the 7-monomethylguanosine (m(7)G) caps of snRNAs and snoRNAs to a 2,2,7-trimethylguanosine (m(2,2,7)G) cap structure. The enzyme is specific for guanine, and N7 methylation must precede N2 methylation. Hypermethylation of the m7G cap of U snRNAs leads to their concentration in nuclear foci, their colocalization with coilin and the formation of canonical Cajal bodies (CBs). Plays a role in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.