

## Product datasheet for **SC128283**

### PNMT (NM\_002686) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PNMT (NM\_002686) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PNMT  
**Synonyms:** PENT; PNMTase  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**Cell Selection:** None  
**Fully Sequenced ORF:** >OriGene sequence for NM\_002686 edited

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GGACGATTGCCGCTGCAGCCGCCGCCACTCACCTCCGGTGTGTCTGCAGCCCGGACAC
TAAGGGAGATGGATGAATGGGTGGGAGGATGCGGCGCACATGGCCCCGGGCGGCTCGGC
GGTCAGCTGCCGCCCCACAGCGGACCGGTGCGGGCGGGGTGCGGCGGTAGAAAAAGG
GCCGCGAGGCGAGCGGGCACTGGGCGGACCGCGCGGCAGCATGAGCGGCGCAGACCGT
AGCCCCAATGCGGGCGCAGCCCCGACTCGGCCCGGGCCAGGCGGCGGTGGCTTCGGCC
TACCAGCGCTTCGAGCCGCGCCTACCTCCGCAACAACACGCGCCCCCTCGCGGGAC
CTGTGCAACCCGAACGGCGTCGGGCCGTGGAAGCTGCGCTGCTTGGCGCAGACCTTCGCC
ACCGGTGAAGTGTCCGGACGCACCCTCATCGACATTGGTTCAGGCCCCACCGTGTACCAG
CTGCTCAGTGCCTGCAGCCAATTTGAGGACATCACCATGACAGATTTCTGGAGGTCAAC
CGCCAGGAGCTGGGGCGCTGGCTGCAGGAGGAGCCGGGGCCCTCAACTGGAGCATGTAC
AGCCAACATGCCTGCCTCATTGAGGGCAAGGGGAATGCTGGCAGGATAAGGAGCGCCAG
CTGCGAGCCAGGGTGAACCGGTCCTGCCATCGACGTGCACCAGCCCCAGCCCCGGGT
GCTGGGAGCCCAGCTCCCCTGCCTGCTGACGCCCTGGTCTCTGCCTTCTGCTTGGAGGCT
GTGAGCCCAGATCTTGCCAGCTTTCAGCGGGCCCTGGACCACATCACCACGCTGCTGAGG
CCTGGGGGGCACCTCCTCCTCATCGGGGCCCTGGAGGAGTCGTGGTACCTGGCTGGGGAG
GCCAGGCTGACGGTGGTCCAGTGTCTGAGGAGGAGGTGAGGGAGGCCCTGGTGCCTAGT
GGTACAAGTCCGGGACCTCCGCACCTATATCATGCCTGCCACCTTCAGACAGGCGTA
GATGATGTCAAGGGCGTCTTCTTCGCTGGGCTCAGAAGTTGGGCTGTGAGGGCTGTAC
CTGGTGCCTGTGGCCCCACCCACCTGGATTCCCTGTTCTTTGAAGTGGCACCTAATAA
AGAAATAATACCCTGCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAA
  
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_002686 unedited GGTACACATTGTACACGACCTCCTACTAGGGCGGCCGCGAATTCCTGGGATGGACGATTG CCGCTGCAGCCGCGCCCACTCACCTCCGGTGTGTCTGCAGCCCGGACACTAAGGGAGA TGGATGAATGGTGGGGAGGATGCGGCGCACATGGCCCCGGGCGGCTCGGCGGTGAGCTG CCGCCCCACAGCGGACCGGTGCGGGCGGGGTGCGGCGGTAGAAAAAGGGCCGCGAGG CGAGCGGGGCACTGGGCGGACCGCGGCGCAGCATGAGCGGCGCAGACCGTAGCCCCAAT GCGGGCGCAGCCCTGACTCGGCCCGGGCCAGGCGGCGGTGGCTTCGGCCTACCAGCGC TTCGAGCCGCGCCTACCTCCGCAACAACACTACGCGCCCTCGCGGGGACCTGTGCAAC CCGAACGCGCTCGGGCCGTGGAAGCTGCGCTGCTTGGCGCAGACCTTCGCCACCGGTGAA GTGTCCGGACGCACCCTCATCGACATTGGTTCAGGCCACCCTGTACCAGCTGCTCAGT GCCTGCAGCCACTTTGAGGACATCACCATGACAGATTTCTGGAGGTCAACCGCCAGGAG CTGGGGCGCTGGTGCAGGAGGACCGGGGCTTCAACTGGAGCATGTACAGCCAACAT GCCTGCCTCATTGAGGGCAAGGGGAATGCTGGCAGGATAAGGAGCGCCAGCTGCGAGCC AGGGTGAACGGTCTGCCATCGACGTGCACCAGCCCAGCCCTGGGTGCTGGGAGC CCAGCTCCCTGCCTGCTGACGCCCTGGTCTCTGCCTTCTGCTTGGAGGCTGTGAGCCCA GATCTTGGCAGCTTTCAGCGGGCCCTGACCACATCACCAGCTGCTGAGCCCTGGGGGG CACTCTCATCGGGCCTGAGAGTCGTGTTACTGCTGGGAGCAGCTGACGTGTGCCAG TTGTTCCCTGAGAGAGGTGA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_002686
<b>Insert Size:</b>	1200 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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>RefSeq:</b>	<a href="#">NM_002686.3</a> , <a href="#">NP_002677.1</a>
<b>RefSeq Size:</b>	1177 bp
<b>RefSeq ORF:</b>	849 bp
<b>Locus ID:</b>	5409
<b>UniProt ID:</b>	<a href="#">P11086</a>
<b>Cytogenetics:</b>	17q12
<b>Domains:</b>	NNMT_PNMT_TEMT

<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Tyrosine metabolism
<b>Gene Summary:</b>	<p>The product of this gene catalyzes the last step of the catecholamine biosynthesis pathway, which methylates norepinephrine to form epinephrine (adrenaline). The enzyme also has beta-carboline 2N-methyltransferase activity. This gene is thought to play a key step in regulating epinephrine production. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2012]</p> <p>Transcript Variant: This variant (1) encodes a functional protein.</p>