

Product datasheet for **RG206586**

PNMT (NM_002686) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PNMT (NM_002686) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PNMT
Synonyms:	PENT; PNMTase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206586 representing NM_002686 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGGCGCAGACCGTAGCCCAATGCGGGCGCAGCCCTGACTCGGCCCGGGCCAGGCGGGTGG
CTTCGGCCTACCAGCGCTTCGAGCCGCGCCCTACCTCCGCAACAACACGCGCCCCCTCGCGGGACCT
GTGCAACCGAACGGCGTCGGGCCGTGGAAGCTGCGCTGCTTGGCGCAGACCTTCGCCACCGGTGAAGTG
TCCGGACGCACCCTCATCGACATTGGTTCAGGCCCCACCGTGTACCAGCTGCTCAGTGCCTGCAGCCACT
TTGAGGACATCACCATGACAGATTTCTGGAGGTCAACCGCCAGGAGCTGGGGCGCTGGCTGCAGGAGGA
GCCGGGGCCTTCAACTGGAGCATGTACAGCCAACATGCCTGCCTCATTGAGGGCAAGGGGAATGCTGG
CAGGATAAGGAGCGCCAGCTGCGAGCCAGGGTGAACGGGTCTGCCATCGACGTGCACCAGCCCCAGC
CCCTGGGTGCTGGGAGCCAGCTCCCCTGCCTGCTGACGCCCTGGTCTCTGCCTTCTGCTTGGAGGCTGT
GAGCCCAGATCTTGCCAGCTTTCAGCGGGCCCTGGACCACATCACCACGCTGCTGAGGCCTGGGGGGCAC
CTCCTCCTCATCGGGCCCTGGAGGAGTCGTGGTACCTGGCTGGGAGGCCAGGCTGACGGTGGTGGCCAG
TGTCTGAGGAGGAGGTGAGGGAGGCCCTGGTGCCTAGTGGCTACAAGTCCGGGACCTCCGCACCTATAT
CATGCCTGCCACCTTCAGACAGGCGTAGATGATGTCAAGGGCGTCTTTCGCCTGGGCTCAGAAGGTT
GGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206586 representing NM_002686
 Red=Cloning site Green=Tags(s)

MSGADRSFNAGAAPSAPGQAAVASAYQRFEPAYLRNNYAPPRGDLCPNGVGPWKLRLCLAQTFATGEV
 SGRTLIDIGSGPTVYQLLSACSHFEDITMTDFLEVNQELGRWLQEEPGAFNWSMYSQHAELIEGKGEW
 QDKERQLRARVKRVLPIDVHQPLGAGSPAPLPADALVSFACLEAVSPDLASFQRALDHITLLRPGGH
 LLLIGALEESWYLAGEARLTVVPVSEEEVREALVRSGYKVRDLRTYIMPAHLQGTGVDDVKGVFFAWAQKV
 GL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002686

ORF Size: 846 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.

RefSeq: [NM_002686.4](#)

RefSeq Size: 1177 bp

RefSeq ORF: 849 bp

Locus ID: 5409

UniProt ID: [P11086](#)

Cytogenetics: 17q12

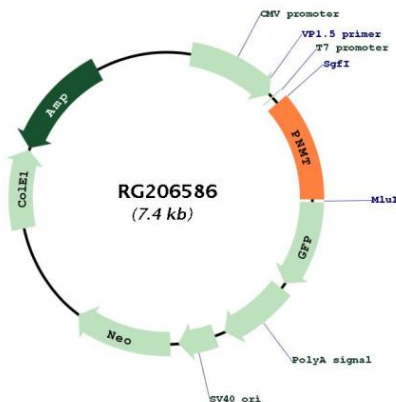
Domains: NNMT_PNMT_TEMT

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Tyrosine metabolism

Gene Summary: 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]

Product images:



Circular map for RG206586