

## Product datasheet for **RC200641**

### NNMT (NM\_006169) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NNMT (NM_006169) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NNMT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200641 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAATCAGGCTTCACCTCCAAGGACACCTATCTAAGCCATTTAACCCCTCGGGATTACCTAGAAAAAT  
ATTACAAGTTTGGTTCTAGGCACTCTGCAGAAAGCCAGATTCTTAAGCACCTTCTGAAAAATCTTTTCAA  
GATATTCTGCCTAGACGGTGTGAAGGGAGACCTGCTGATTGACATCGGCTCTGGCCCCACTATCTATCAG  
CTCCTCTCTGCTTGTGAATCCTTTAAGGAGATCGTCGTCAGTACTCAGACCAGAACCTGCAGGAGC  
TGGAGAAGTGGCTGAAGAAAGCCAGAGGCCTTTGACTGGTCCCAGTGGTGACCTATGTGTGATCT  
TGAAGGGAACAGAGTCAAGGGTCCAGAGAAGGAGGAGAAGTTGAGACAGGCGGTCAAGCAGGTGCTGAAG  
TGTGATGTGACTCAGAGCCAGCCACTGGGGCCGTCCCCTTACCCCCGGCTGACTGCGTGCTCAGCACAC  
TGTGTCTGGATGCCGCTGCCAGACCTCCCCACCTACTGCAGGGCGCTCAGGAACCTCGGCAGCCTACT  
GAAGCCAGGGGCTTCTGGTATCATGGATGCGCTCAAGAGCAGCTACTACATGATTGGTGAGCAGAAG  
TTCTCCAGCCTCCCCTGGGCCGGGAGGCAGTAGAGGCTGCTGTGAAAGAGGCTGGCTACACAATCGAAT  
GGTTTGAGGTGATCTCGCAAAGTTATTCTCCACCATGGCCAACAACGAAGGACTTTTCTCCTGGTGGC  
GAGGAAGCTGAGCAGACCCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC200641 protein sequence  
 Red=Cloning site Green=Tags(s)

MESGFTSKDTYLSHFNPRDYLEKYYYKFGSRHSAESQILKHLKLNLFKIFCLDGVKGDLLIDIGSGPTIYQ  
 LLSACESFKEIVVDYSDQNLQELEKWLKKEPEAFDWSPVVTVYCDLEGNRVKGPEKEELRQAVKQVLK  
 CDVTQSQPLGAVPLPPADCVLSTLCLDAACPDLPYCRALRNLSLLKPGGFLVIMDALKSSYYMIGEQK  
 FSSLPLGREAVEAAVKEAGYTIWFEVTSQSYSSSTMANNEGLFSLVARKLSRPL

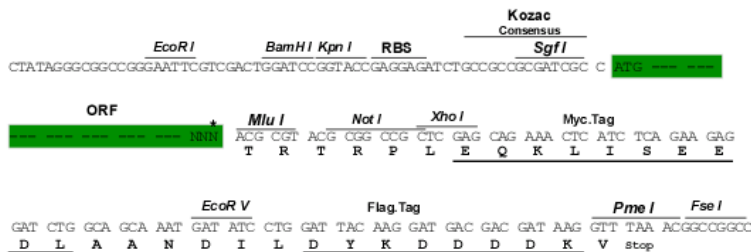
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6071\\_b08.zip](https://cdn.origene.com/chromatograms/mk6071_b08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_006169

**ORF Size:** 792 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\\_006169.3](#)

**RefSeq Size:** 1579 bp

**RefSeq ORF:** 795 bp

**Locus ID:** 4837

**UniProt ID:** [P40261](#)

**Cytogenetics:** 11q23.2

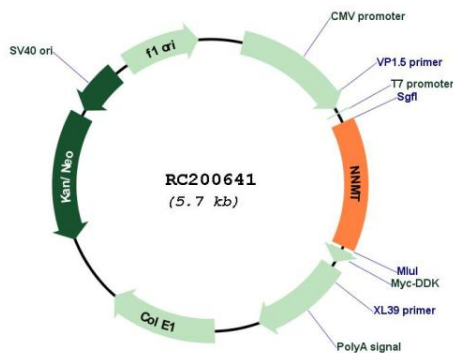
**Domains:** NNMT\_PNMT\_TEMT

**Protein Pathways:** Metabolic pathways, Nicotinate and nicotinamide metabolism

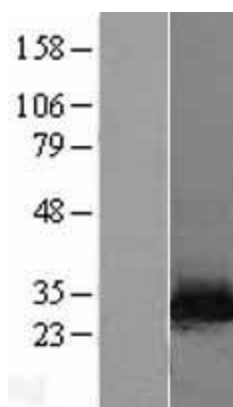
**MW:** 29.6 kDa

**Gene Summary:** N-methylation is one method by which drug and other xenobiotic compounds are metabolized by the liver. This gene encodes the protein responsible for this enzymatic activity which uses S-adenosyl methionine as the methyl donor. [provided by RefSeq, Jul 2008]

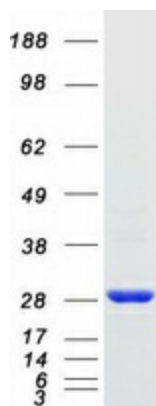
**Product images:**



Circular map for RC200641



Western blot validation of overexpression lysate (Cat# [LY401860]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200641 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NNMT protein (Cat# [TP300641]). The protein was produced from HEK293T cells transfected with NNMT cDNA clone (Cat# RC200641) using MegaTran 2.0 (Cat# [TT210002]).