

Product datasheet for **RC224361**

HNMT (NM_001024075) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HNMT (NM_001024075) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HNMT
Synonyms: HMT; HNMT-S1; HNMT-S2; MRT51
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC224361 representing NM_001024075
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCATCTTCCATGAGGAGCTTGTTTTCTGACCACGGGAAATATGTTGAATCTTCCGGAGTTTCTCA
ACCATTCCACGGAACACCAGTGCATGCAGGAATTCATGGACAAGAAGCTGCCAGGCATAATAGGAAGGAT
TGGAGACACAAAATCAGAAATTAAGATTCTAAGCATAGGCGGAGGTGCAGATTGTCTCATTCCGGGAAGC
TCCAGGGTTCTCAAGCGGAATTCGTGTTTCATTTTGTGTAGCACCCGTCAGAAAGACAAGCCAGGCATGA
GGATCCATGATGAGCGCTCTTCTGAGTTGCCATTTGGAGCTGCCGTTTAGAAAGCAAATCTGCATTTCC
CTCATTCTAGTTTCTTCATCCTCTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224361 representing NM_001024075
Red=Cloning site **Green**=Tags(s)
MASSMRSLSFDHGKYVESFRRFLNHSTEHQCMQEFMDKKLPGIIGRIGDTKSEIKILSIGGGADCLIRGS
SRVLKRNSCFILCSTRQKDKPGMRIHDERSSSELPFGAARLESKSAFPSFLVSFILF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

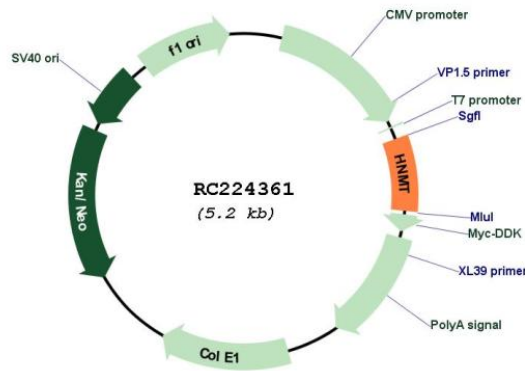


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Cloning Scheme:



Plasmid Map:



ACCN:

NM_001024075

ORF Size:

378 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:	<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_001024075.2
RefSeq Size:	907 bp
RefSeq ORF:	381 bp
Locus ID:	3176
UniProt ID:	P50135
Cytogenetics:	2q22.1
Protein Families:	Druggable Genome
Protein Pathways:	Histidine metabolism
MW:	14 kDa
Gene Summary:	In mammals, histamine is metabolized by two major pathways: N(tau)-methylation via histamine N-methyltransferase and oxidative deamination via diamine oxidase. This gene encodes the first enzyme which is found in the cytosol and uses S-adenosyl-L-methionine as the methyl donor. In the mammalian brain, the neurotransmitter activity of histamine is controlled by N(tau)-methylation as diamine oxidase is not found in the central nervous system. A common genetic polymorphism affects the activity levels of this gene product in red blood cells. Multiple alternatively spliced transcript variants that encode different proteins have been found for this gene. [provided by RefSeq, Jul 2008]