

Product datasheet for **RC204676**

HNMT (NM_006895) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HNMT (NM_006895) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HNMT
Synonyms:	HMT; HNMT-S1; HNMT-S2; MRT51
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204676 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCATCTTCCATGAGGAGCTTGTCTTCTGACCACGGGAAATATGTTGAATCTTCCGGAGGTTTCTCA
ACCATTCACGGAACACCAAGTGCATGCAGGAATTCATGGACAAGAAGCTGCCAGGCATAATAGGAAGGAT
TGGAGACACAAAATCAGAAATTAAGATTCTAAGCATAGGCGGAGGTGCAGGTGAAATTGATCTTCAAATT
CTCTCAAAGTTCAGGCTCAATACCCAGGAGTTTGTATCAACAATGAAGTTGTTGAGCCAAGTGCTGAAC
AAATTGCCAAATACAAAGAGCTTGTAGCCAAGACATCGAACCTCGAGAACGTAAAGTTTGTCTGGCATAA
GGAGACATCATCTGAATACCAAAGTAGAATGTTGGAGAAAAAGGAGCTTCAAAGTGGGACTTTATTCAT
ATGATTCAAATGCTGTATTATGTAAAAGACATCCAGCTACCCTGAAATCTTCCATAGTCTCTTAGGTA
CCAATGCTAAGATGCTCATTATTGTTGTGTGAGGAAGCAGTGGCTGGGACAAGCTGTGGAAAAAGTACGG
ATCACGCTTTCCCGAGGATGACCTCTGCCAGTATATCACATCAGATGACCTCACTCAGATGCTGGACAAC
CTAGGGCTTAAGTATGAGTGCTATGACCTTTGTCCACCATGGATATATCTGACTGCTTTATTGATGGTG
ATGAAAATGGAGACCTGCTTTGGGATTTTTGACTGAAACCTGCAACTTTAATGCCACAGCACCACTGA
TCTCAGAGCAGAGCTTGGGAAAGATCTACAAGAGCCTGAATTTAGTGCTAAGAAAGAGGGGAAGGTTCTT
TTAATAATACTCTGAGTTTCATAGTGATTGAGGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204676 protein sequence
 Red=Cloning site Green=Tags(s)

MASSMRSLSFDHGKYVESFRRFLNHSTEHQCMQEFMDKKLPGIIGRIDTKSEIKILSIGGGAGEIDLQI
 LSKVQAQYPGVCINNEVEPSAEQIAKYKELVAKTSNLENVKFAWHKETSSEYQSRMLEKKELQKWDFIH
 MIQMLYYVKDIPATLKFFHSLGTAAMLIIVSGSSGWDKLWKYGSRFPQDDLCQYITSDDLQMLDN
 LGLKYECYDLLSTMDISDCFIDGDENGDLLWDFLTETCNFNATAPDLRAELGKDLQEPEFSAKKEGKVL
 FNNTLSFIVIEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6438_e06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006895

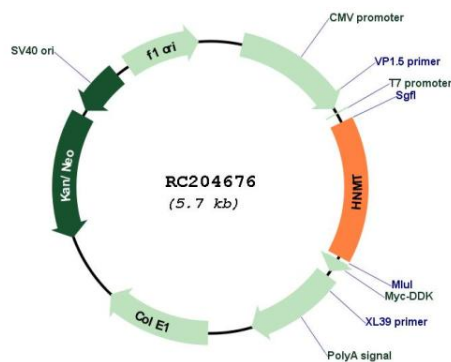
ORF Size: 876 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

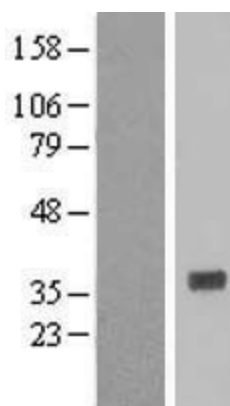
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_006895.3
RefSeq Size:	3373 bp
RefSeq ORF:	879 bp
Locus ID:	3176
UniProt ID:	P50135
Cytogenetics:	2q22.1
Protein Families:	Druggable Genome
Protein Pathways:	Histidine metabolism
MW:	33.3 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]

Product images:



Circular map for RC204676



Western blot validation of overexpression lysate (Cat# [LY416336]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204676 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).