

## Product datasheet for SC302228

## OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

## HNMT (NM\_001024074) Human Untagged Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** HNMT (NM\_001024074) Human Untagged Clone

Tag: Tag Free Symbol: HNMT

Synonyms: HMT; HNMT-S1; HNMT-S2; MRT51

**Vector:** <u>pCMV6 series</u>

Fully Sequenced ORF: >NCBI ORF sequence for NM\_001024074, the custom clone sequence may differ by one or

more nucleotides

CCAGGCATAATAGGAAGATACCAGAATTGCTGTTAA

**Restriction Sites:** Please inquire ACCN: NM 001024074

**OTI Disclaimer:** 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning

into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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

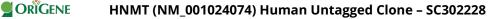
at the bottom.

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.

**RefSeg:** NM 001024074.1, NP 001019245.1





RefSeq Size: 767 bp

 RefSeq ORF:
 156 bp

 Locus ID:
 3176

 UniProt ID:
 P50135

 Cytogenetics:
 2q22.1

Protein Families: Druggable Genome
Protein Pathways: Histidine metabolism

**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]

Transcript Variant: This variant (2) includes an alternate exon in the coding region, which results in a frameshift and an early stop codon, compared to variant 1. The encoded isoform

(2) is shorter and has a distinct C-terminus compared to isoform 1. This transcript is supported by multiple mRNAs and ESTs, but the predicted ORF has not yet been

experimentally confirmed. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript

alignments.