

## Product datasheet for **RG224361**

### HNMT (NM\_001024075) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HNMT (NM\_001024075) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** HNMT  
**Synonyms:** HMT; HNMT-S1; HNMT-S2; MRT51  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG224361 representing NM\_001024075  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCATCTTCCATGAGGAGCTTGTCTTCTGACCACGGGAAATATGTTGAATCTTCCGGAGGTTTCTCA  
ACCATTCCACGGAACACCAGTGCATGCAGGAATTCATGGACAAGAAGCTGCCAGGCATAATAGGAAGGAT  
TGGAGACACAAAATCAGAAATTAAGATTCTAAGCATAGGCGGAGGTGCAGATTGTCTCATTCCGGGAAGC  
TCCAGGGTTCTCAAGCGAATTCGTGTTTCATTTGTGTAGCACCCGTCAGAAAGACAAGCCAGGCATGA  
GGATCCATGATGAGCGCTCTTCTGAGTTGCCATTTGGAGCTGCCGTTTAGAAAGCAAATCTGCATTCC  
CTCATTCTAGTTTCTTCATCCTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG224361 representing NM\_001024075  
Red=Cloning site Green=Tags(s)  
MASSMRSLFSDHGKYVESFRRFLNHSTEHQCMQEFMDKKLPGIIGRIDTKSEIKILSIGGGADCLIRGS  
SRVLKRNCSFILCSTRQKDKPMRIHDERSELPGAARLESKSAFPSFLVVFILF

**TRTRPLE** - GFP Tag - V

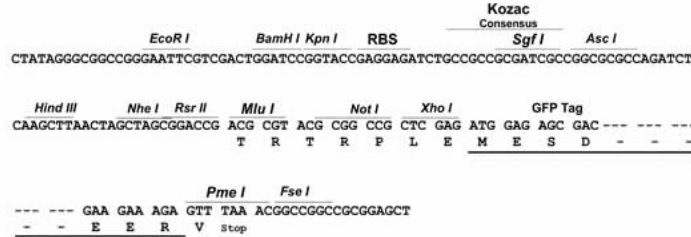
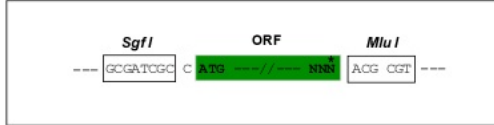
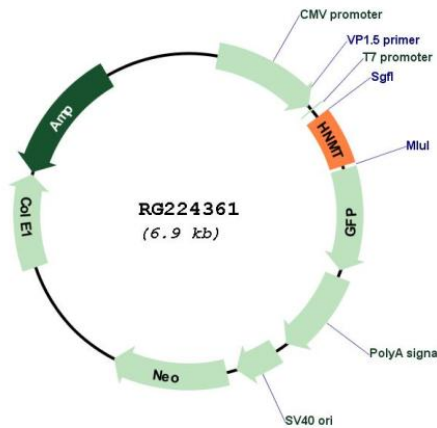
**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

Cloning sites used for ORF Shutting:


**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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001024075.2</a>
<b>RefSeq Size:</b>	907 bp
<b>RefSeq ORF:</b>	381 bp
<b>Locus ID:</b>	3176
<b>UniProt ID:</b>	<a href="#">P50135</a>
<b>Cytogenetics:</b>	2q22.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Histidine metabolism
<b>Gene Summary:</b>	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]