

## Product datasheet for MC206917

### N6amt1 (BC098330) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	N6amt1 (BC098330) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	N6amt1
Synonyms:	5830445C04Rik; Hemk2; Pred28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC206917 representing BC098330. Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC  
 ATGGCGGCGCGGAGTGTCCACGCGTTGTACGGGCACGTGGGTGCGGAGCCTTCCGCGACGTGTAC  
 GAGCCAGCGGAGGACACGTTCTGTACTGGACGCGCTCGAGGCGGCGGCGGCGGAGCTAGCAGGAGTG  
 GAAATATGCCTGAAGTAGGAGCAGGATCTGGTGTGGTGTCTGCATTCTGGCCTCCATGATAGGTCCT  
 CGGGCCTTATACATGTACACTGATATCAACCCTGAGGCAGCCGCATGTACCTTGGAAACAGCAGCGTGT  
 AACAGAGTCCATGTTAGCCAGTGATCACAGATTTGGTGCACGGCTTGCTGCCAGACTGAAGGGGAAA  
 GTAGACCTGCTGGTGTAAACCCCTATGTAGTGACTCCGCCTGAAGAGGTAAGACTCACAACAGAA  
 CTAGTCTTTGTTCCAGCTGTTTCACGAGACCAAGTGA  
 ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	BC098330
Insert Size:	453 bp
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).
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).


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<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>	<u>BC098330</u>
<b>RefSeq Size:</b>	3489 bp
<b>RefSeq ORF:</b>	452 bp
<b>Locus ID:</b>	67768
<b>Cytogenetics:</b>	16 C3.3
<b>MW:</b>	16.1 kDa
<b>Gene Summary:</b>	<p>Methyltransferase that can methylate both proteins and DNA, and to a lower extent, arsenic (PubMed:20606008, PubMed:26797129). Catalytic subunit of a heterodimer with TRMT112, which catalyzes N5-methylation of Glu residue of proteins with a Gly-Gln-Xaa-Xaa-Xaa-Arg motif (PubMed:26797129). Methylates ETF1 on 'Gln-185'; ETF1 needs to be complexed to ERF3 in its GTP-bound form to be efficiently methylated (PubMed:20606008, PubMed:26797129). Also acts as a N(6)-adenine-specific DNA methyltransferase by mediating methylation of DNA on the 6th position of adenine (N(6)-methyladenosine) (By similarity). N(6)-methyladenosine (m6A) DNA is significantly enriched in exonic regions and is associated with gene transcriptional activation (By similarity). May also play a role in the modulation of arsenic-induced toxicity by mediating the conversion of monomethylarsonous acid (3+) into the less toxic dimethylarsonic acid (By similarity). It however only plays a limited role in arsenic metabolism compared with AS3MT (By similarity).[UniProtKB/Swiss-Prot Function]</p>