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Product datasheet for MR227618

N6amt1 (NM_026366) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	N6amt1 (NM_026366) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	N6amt1
Synonyms:	5830445C04Rik; Hemk2; Pred28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR227618 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGCCGAGTGTCCCCACGCCGTTGTACGGGCACGTGGGTCGCGGAGCCTTCCGCGACGTGTACG
AGCCAGCGGAGGACACGTTCCTGTTACTGGACGCGCTCGAGGCGGCGGCGGCCGAGCTAGCAGGAGTGGA
AATATGCCTTGAAGTAGGAGCAGGATCTGGTGTGGTGTCTGCATTCCTGGCCTCCATGATAGGTCCTCGG
GCCTTATACATGTGCACTGATATCAACCCTGAGGCAGCCGCATGTACCTTGGAAACAGCACGCTGTAACA
GAGTCCATGTTCAGCCAGTGATCACAGATTTGGTGCACGGCTTGCTGCCCAGACTGAAGGGGAAAGTAGA
CCTGCTGGTGTTTAACCCCCCCTATGTAGTGACTCCGCCTGAAGAGGTAGGAAGTCGTGGAATAGAAGCA
GCCTGGGCTGGCGGCAGAAACGGCCGGGAAGTCATGGACAGGTTCTTCCCACTGGCTCCAGAACTCCTCT
CCCCAAGAGGGCTGTTCTACTTAGTTACCGTAAAAGAAAACAATCCCGAGGAAATCTTTAAAACAATGAA
GACAAGAGGTCTGCAAGGGACCACAGCACTTTGCAGGCAAGCAGGCCAAGAAGCCCTGTCAGTCCTCAGG
TTCAGCAAGTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

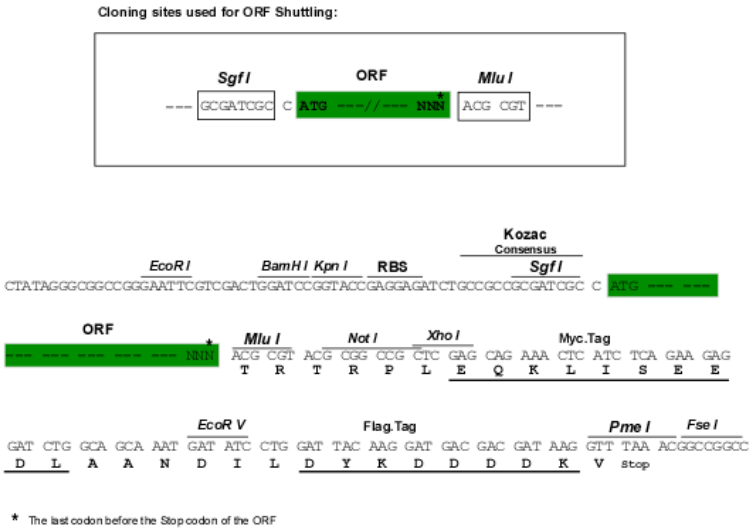
>MR227618 protein sequence
Red=Cloning site Green=Tags(s)

MAAPSVPTPLYGHVGRGAFRDVYEPAEDTFLLLDALEAAAAELAGVEICLEVGAGSGVVSAFLASMIGPR
ALYMCTDINPEAAACTLETARCNRVHVQPVITDLVHGLLPRLKGKVDLLVFNPPYVVTPPEEVGSRGIEA
AWAGGRNGREVMDRFFPLAPELLSPRGLFYLVTVKENNPEEIFKTMKTRGLQGTTALCRQAGQEALSVLR
FSKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_026366

ORF Size: 645 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).

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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.
RefSeq:	NM_026366.2, NP_080642.1
RefSeq Size:	1791 bp
RefSeq ORF:	645 bp
Locus ID:	67768
UniProt ID:	Q6SKR2
Cytogenetics:	16 C3.3
MW:	23 kDa
Gene Summary:	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]

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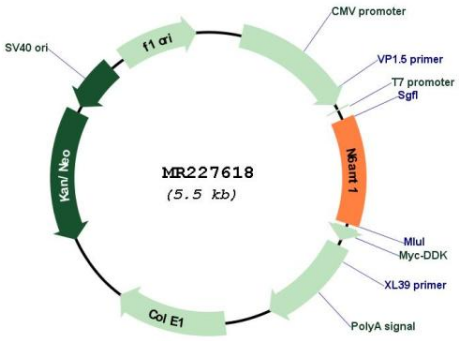
Product images:



Circular map for MR227618

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