

Product datasheet for RN211760

Ntmt1 (NM_001025019) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ntmt1 (NM_001025019) Rat Untagged Clone
Tag: Tag Free
Symbol: Ntmt1
Synonyms: Mettl11a; NTM1A; RGD1306582
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN211760 representing NM_001025019
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACAAGCGAGGTGATCGAAGATGAGAAACAGTTTTATTGGAAGCCAAGACCTACTGGAAGCAGATTC
CGCCACGGTGGACGGCATGCTCGGGGGTATGGCCACATCTCCAACATCGACCTCAACAGCTCCCGGAA
GTTTCTGCAGAGTTTTTAAGGGAAGGCCAAACAAGACGGGGACTTCTGTGCCCTGGACTGTGGTGCT
GGCATTGGAAGGATCACCAAGCGCTGCTCCTGCCGCTCTCAGGGTGGTTGACATGGTGCAGCTGACGG
AAGACTTTCTGGCCAAAGCCAAGACCTACCTGGGGGAAGAGGGCAAGAGGGTGAAGAACTACTTCTGCTG
TGGGCTGCAGGACTTCAGCCCTGAGCCCAGCTCCTATGACGTGATCTGGATCCAGTGGGTGATAGGCCAC
CTGACGGATCAGCACCTGGCTGAGTTTCTGCGCCGCTGCAGGCGGGCCCTGCGCCCAATGGCATCATTG
TCATCAAAGACAACATGGCCCAGGAGGGTGTGATCCTGGACGATGTGGACAGCAGTGTGTGCCGTGACCT
CGAGGTGGTCCGCCGGATCATCCGACGTGCAGGCCTCAGCCTCCTGGCTGAGGAGCGCCAGGAGAACCTG
CCAGATGAGATCTATCACGTCTACAGTTTCGCCCTGAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001025019
Insert Size: 672 bp



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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).
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.
RefSeq:	<u>NM_001025019.1</u> , <u>NP_001020190.1</u>
RefSeq Size:	1278 bp
RefSeq ORF:	672 bp
Locus ID:	362103
UniProt ID:	<u>Q5BJX0</u>
Cytogenetics:	3p12
Gene Summary:	Distributive alpha-N-methyltransferase that methylates the N-terminus of target proteins containing the N-terminal motif [Ala/Gly/Pro/Ser]-Pro-Lys when the initiator Met is cleaved. Specifically catalyzes mono-, di- or tri-methylation of the exposed alpha-amino group of the Ala, Gly or Ser residue in the [Ala/Gly/Ser]-Pro-Lys motif and mono- or di-methylation of Pro in the Pro-Pro-Lys motif. Some of the substrates may be primed by METTL11B-mediated monomethylation. Catalyzes the trimethylation of the N-terminal Gly in CENPA (after removal of Met-1). Responsible for the N-terminal methylation of KLHL31, MYL2, MYL3, RB1, RCC1, RPL23A and SET. Required during mitosis for normal bipolar spindle formation and chromosome segregation via its action on RCC1.[UniProtKB/Swiss-Prot Function]