

## Product datasheet for **MR202578**

### **Ntmt1 (NM\_170592) Mouse Tagged ORF Clone**

#### **Product data:**

**Product Type:** Expression Plasmids  
**Product Name:** Ntmt1 (NM\_170592) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ntmt1  
**Synonyms:** 2610205E22Rik; AL033331; AL033332; Mettl11a; NTM1A  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR202578 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGAGCGAGGTGATTGAGGATGAGAAACAGTTTTATTGCAAGGCCAAGACCTACTGGAAGCAGATCC  
CACCCACGGTGGACGGCATGCTCGGGGGTATGGCCACATCTCCAACATCGACCTCAACAGCTCCCGGAA  
GTTTCTACAGAGGTTTTAAGGGAAGGCCAAACAAGACAGGGACTTCTGTGCCTGGACTGTGGCGCT  
GGTATTGGAAGGATACCAAGCGCCTGCTCCTGCCACTTTCAGGGTGGTCGACATGGTCGACGTGACAG  
AAGACTTTCTGGCAAAGCCAAGACCTACCTGGGGGAAGAGGGCAAGAGGGTGAGGAAGTACTTCTGCTG  
TGGGCTGCAGGACTTCAAGCCTGAGCCTGGCTCCTATGACGTGATCTGGATCCAGTGGGTGATAGGCCAC  
CTGACGGATCAGCACCTGGCTGAGTTTCTGCGCCGCTGCAAGCGGGCCTGCGCCCAATGGCATCATCG  
TCATCAAGGACAACATGGCCAGGAGGGTGTGATCCTGGACGATGTGGACAGCAGTGTGTCCGGGACCT  
TGAGGTGGTCCGCCGATCATCCGCACTGCAGGCCTCAGCCTCCTGGCCGAGGAGCGCCAGGAGAACCTG  
CCAGATGAGATCTACCATGTCTACAGCTTTGCCCTGAGA

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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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\\_170592.1](#)

**RefSeq Size:** 1217 bp

**RefSeq ORF:** 672 bp

**Locus ID:** 66617

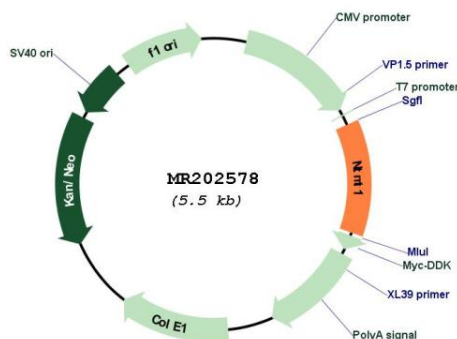
**UniProt ID:** [Q8R2U4](#)

**Cytogenetics:** 2 B

**MW:** 25.4 kDa

**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 (PubMed:20668449). 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) (By similarity). 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 (PubMed:20668449). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR202578