

Product datasheet for **MR203250**

Trmt12 (NM_026642) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trmt12 (NM_026642) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trmt12
Synonyms:	4632406N01Rik; AI449275; Tyw2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR203250 representing NM_026642
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGAGAGAGTGTGAGGAGTCTGTAGTTGTCGCAGTTGTGACTGAGCCCCGGTTCACGCAGAGATACC
 GAGACTACCTGGAGGAGCAGAACTCTTGGACAGGCTGCACCGGTGGCGAAGCTGCGGGATGGCGCGT
 GGCTCTGCCGGTCTGGCGAAAGCCTTCTGAGCAGCATCTGCAGGAGCTGAGGGATCGCGTGGCCCCA
 GGCAGCACTTGTGTGCTGACGCGCTCCCGGATCCTCTTCTTCCAAAAGGCCGGGTTCTGTTACCTG
 CTCAGATACTGTGCTGGAGGTGAGGCGTTGGGTGGAGGACCGCGGAGTGACGTGGTCCGCTGAGTTGGA
 GGCAGATTTGCCCGGTCTTGGCAACGGCATGGTGACCTAATGCTGCTTAGTGAAGACTGCTTCAAAGCC
 ACGCTGTGAAAGGTCTGGAGCCAGAATCTGGGAGACTGTTGCCTCGGCCCTGGGAGTTCAACGTTTGG
 CAAAACGAGGGCGGGTGTACTCTGATGGGACTCGAACTCCGTAGTACTGCTGCTGGGTGACCATGG
 CTGGGTAGAGCATATGGATAATGGCATCCGGTATAAGTTTGATGTGACACAGTGCATGTTCTCTTTGGA
 AACATCACCGAGAACTTCGAGTGGCGTCTCTGTCTGTGCTGGAGAGGTGCTGGTGGATCTCTACGCAG
 GGATTGGTTATTTACATTGCCCTTCTAGTTCATGCTGGCGCTGCCTTCGTACATGCCTGTGAATGGAA
 TCCTCATGCTGTAGTTGCTTTAAGAAACAACCTGGAGATCAATGGAGTGGCAGACCGGTGCCAAATACAT
 TTTGGGACAACAGGAACTGAAGCTCTCAGACATTGCAGATAGGGTGAACCTCGGGTCAATCCAGTT
 CTAAGAAGGCTGGCCGTTGCCTGCCAAGTGTTCGGAAGGACGTTGGGGGATTTCTGCATATCCACCA
 AAATGTGGAGTCTTCTCAGGAAAGACTCCACAGCCACCTGGAAGCAATAACGTGAAAAAGAGCACTGG
 CCTCGTCCCAGAAAATCACCCTGATACACAGGAAAATGGAAGTACTGAGAATTTACGGGGGAAATAT
 CATCGGCCAACAAACAGAGTGGTGGAGATGGGAGAACTGCAGAACTCAGATCGCCTCTCTTCTTCA
 TCAAGTGCATGGGAAACCATGGAGGACAGCAATCTTGCATGCCACCCAGTGAATCTTACGCCCTCAC
 GTGGATACATAGTCTAGATCTAGAATGCCGGCCCTGACCTCTAGTTGGCCAGAAGGAGTAGATTTAC
 TGACACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR203250 representing NM_026642
 Red=Cloning site Green=Tags(s)

MERECEESVVAVVTEPRFTQRYRDYLEEQKLLDRLHRVAKLRDGAVALPVLAESLSEQHLQELRDRVAP
 GSTCVLTRLPDPLPSKKARVRSQAQILCLEVRRWVEDRGVTWSAELEADLPRSWQRHGDLMLLSEDCFQA
 TLWKGLEPELWETVASALGVQRLAKRGRVLPDGTRTPSVTLLLDHGWEHMDNGIRYKFDVTQCMFSFG
 NITEKLRVASLSCAGEVLVDLYAGIGYFTLPFLVHAGAAFVHACEWNPHAVVALRNNLEINGVADRCQIH
 FGDNRKLLSDIADRVNLGLIPSSKEGWPVACQVLRKDVGGILHIHQNVESFSGKTPQPPGSNNVEKEHW
 PRPQKITTDQNGTTFENFRGEISSANKPEWWRWAESAETQIASLLHQVHGKPWTRILHVHPVKSYAPH
 VDHIIVLDLECRPLTSSWPEGVDLLTQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9060_a11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_026642

ORF Size: 1338 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).

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_026642.2](#), [NP_080918.2](#)

RefSeq Size: 4133 bp

RefSeq ORF: 1341 bp

Locus ID: 68260

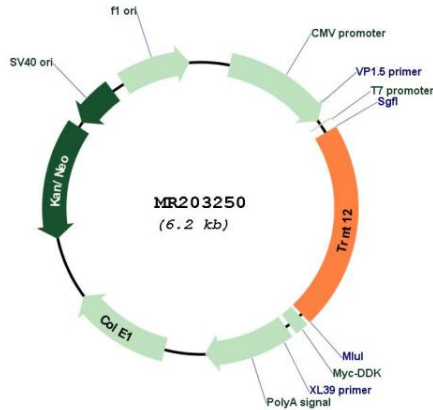
UniProt ID: [Q8BG71](#)

Cytogenetics: 15 D1

MW: 50.3 kDa

Gene Summary: S-adenosyl-L-methionine-dependent transferase that acts as a component of the wybutosine biosynthesis pathway. Wybutosine is a hyper modified guanosine with a tricyclic base found at the 3'-position adjacent to the anticodon of eukaryotic phenylalanine tRNA. Catalyzes the transfer of the alpha-amino-alpha-carboxypropyl (acp) group from S-adenosyl-L-methionine to the C-7 position of 4-demethylwyosine (imG-14) to produce wybutosine-86 (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203250