

Product datasheet for **MG203250**

Trmt12 (BC052533) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Trmt12 (BC052533) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Trmt12
Synonyms: 4632406N01Rik; AI449275; Tyw2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203250 representing BC052533
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGAGAGTGTGAGGAGTCTGTAGTTGTGCGAGTTGTGACTGAGCCCCGGTTCACGCAGAGATACC
GAGACTACCTGGAGGAGCAGAACTCTTGGACAGGCTGCACCGGGTGGCGAAGCTGCGGGATGGCGCGGT
GGCTCTGCCGGTGTGGCGAAAGCCTTCTGAGCAGCATCTGCAGGAGCTGAGGGATCGCGTGGCCCCA
GGCAGCACTTGTGTGCTGACGCGGCTCCCGGATCCTCTTCCTTCCAAAAGGCCCGGTTTCGTTACCTG
CTCAGATACTGTGTCTGGAGGTGAGGCGTTGGGTGGAGGACCGCGGAGTGACGTGGTCCGCTGAGTTGGA
GGCAGATTTGCCCGGTCTTGGCAACGGCATGGTGACCTAATGCTGCTTAGTGAAGACTGCTTCCAAGCC
ACGCTGTGGAAAGGTCTGGAGCCAGAACTCTGGGAGACTGTTGCCTCGGCCCTGGGAGTTCAACGTTTGG
CAAACGAGGGCGGGTGCTACCTGATGGGACTCGAACTCCGTAGTACTGCTGCTGGGTGACCATGG
CTGGGTAGAGCATATGGATAATGGCATCCGGTATAAGTTTGTGTGACACAGTGCATGTTCTCCTTTGGA
AAACATCACCGAGAACTTCGAGTGGCGTCTGTCTGTGCTGGAGAGGTGCTGGTGGATCTCTACGCA
GGGATTGGTTATTTTACATTGCCCTTCTAGTTCATGCTGGCGCTGCCTTCGTACATGCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203250 representing BC052533
 Red=Cloning site Green=Tags(s)

MERECEESVVAVVTEPRFTQRYRDYLEEQKLLDRLHRVAKLRDGAVALPVLAESLSEQHLQELRDRVAP
 GSTCVLTRLDPDPLPSKKARVRSQAQILCLEVRRWVEDRGVTWSAELEADLPRSWQRHGDLMLLSEDCFQA
 TLWKGLEPELWETVASALGVQRLAKRGRVLPDGT RTPSVTL LLDGHWVEHMDNGIRYKFDV TQCMF SFG
 KHHRETSSGVSVL CWRGAGGSLRRDWLFYIALPSSCWRLRTCL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC052533

ORF Size: 764 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: [BC052533](#), [AAH52533](#)

RefSeq Size: 1631 bp

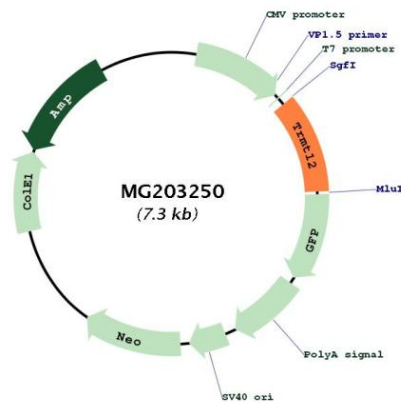
RefSeq ORF: 764 bp

Locus ID: 68260

Cytogenetics: 15 D1

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 MG203250