

Product datasheet for **RG201499**

TRMT61B (NM_017910) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRMT61B (NM_017910) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRMT61B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG201499 representing NM_017910
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGCTAATGGCATGGTGGCCGGTCTGTCTTGTGTGCCTGCGGCAGGGGCTCGGAACCAATTCATTCC
 TGCACGGCCTGGGCGAGGAGCCCTTCGAGGGAGCTCGGTCACTGTGTTGCAGGTCCTCGCCTAGAGACCT
 GCGAGATGGAGAAAGAGACGACGAGGCGGCACAAAGAAAGCCCGAGGAGCAGAGTCTTGCCCATCTCTC
 CCTCTGAGCATCTCGGACATTGGGACTGGATGTCTTTCGTCAGTGGAAAACCTCAGACTGCCGACGCTGC
 GGGAAAGAGTCATCACCTCGAGAGCTCGAGGACTCGAGCGGAGACCAGGGCCGGTGCAGTCCACACACCA
 GGGATCCGAGGATCCTTCGATGCTCTCGCAGGCCAGTCCGCTATCGAGGTCGAAGAGCGTCACGCTCTCC
 CCTTCTTGTTCACTTCCAGAGAGAGACCCTTTCAGGCTGGGGAGCTGATTTTAGCTGAGACTGGGGAGG
 GAGAAACAAAATTTAAGAAATTATTTAGGTTGAACAATTCGGACTCTTAAATAGTAACTGGGGGCGAGT
 CCCGTTCCGCAAGATCGTGGGGAAGTTCGCCGCCAGATACTGAGGAGTTCCTTCGGTAAGCAGTACATG
 CTGAGGAGGCCAGCCTTGGAAGACTATGTAGTATTGATGAAAAGAGGGACTGCCATAACATTCCTCAAGG
 ATATTAATATGATTCTCTCAATGATGGATATCAACCCAGGTGATACTGTTTTGGAAGCTGGCTCAGGCTC
 TGGTGGATGAGCTTATTTTTATCCAAAGCAGTTGGATCACAAGGACGAGTCATAAGTTTTGAGGTACGA
 AAAGACCACCATGATCTGGCTAAGAAGAATTACAAACACTGGCGTGATTCATGGAATTAAGTCATGTAG
 AAGAGTGGCCAGACAATGTGGATTTTATCATAAGGACATTTTCAGGAGCAACCGAAGACATAAAATCTTT
 AACATTTGACGCAGTAGCTTTGGATATGTTAAATCCTCATGTTACTTTGCCTGTTTTTACCACATCTT
 AAGCATGGTGGTGTATGTGCTGTATATGTAGTAAACATCACACAGGTTATTGAACTTTTAGATGGAATTC
 GCACCTGTGAACCTGCTCTTTCATGTGAAAAGATAAGCGAGGTCATTGTCAGAGATTGGTTGGTTTGCCT
 TGCAAAACAGAAAAATGGAATTTTAGCTCAAAAAGTAGAATCTAAAATCAACACAGATGTACAACTAGAT
 TCTCAAGAGAAAAATTGGAGTTAAAGGTGAGCTGTTTCAAGAGGATGACCATGAAGAATCGCATTCTGATT
 TTCCATATGGATCATTTCCCTATGTTGCTAGACCAGTACACTGGCAACCTGGTCATACAGCTTTTCTTGT
 CAAGTTGAGGAAGGTCAAACCACAACCTAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

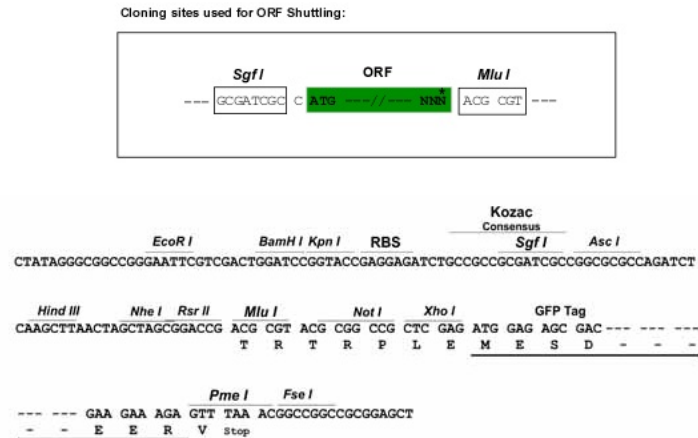
>RG201499 representing NM_017910
 Red=Cloning site Green=Tags(s)

MLMAWCRGPVLLCLRQGLGTNSFLHGLGQEPFEGARSLCCRSSPRDLRDGEREHEAAQRKAPGAESCP
 PLSISDIGTGCLSSLENLRLPTLREESSPRELEDSSGDQGRCPHQQSGEDPSMLSQAQSAIEVEERHVS
 PSCSTSRERPFQAGELILAETGEGETKFKKLFRLNNFGLLNSNWGAVPFGKIVGKFPQGILRSSFGKQYM
 LRRPALEDYVVLTKRGTAITFPKDINMILSMMDINPGDTVLEAGSGSGMSLFLSKAVGSQGRVISFEVR
 KDHHDLAKKNYKHWKDSWKLSHVEEWPNDVDFIHKDISGATEDIKSLTFDAVALDMLNPHVTLVPFYPHL
 KHGGVCAVYVYVITQVIELLDGIRTCALALSCSEKISEVIVRDWLVLAKQKNGILAQKVESKINTDVQLD
 SQEKIGVKGELFQEDDHEESHDFPYGSPFYVAVPQVHWPQHTAFLVKLRKVKPQLN

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_017910

ORF Size: 1431 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_017910.2](#), [NP_060380.2](#)

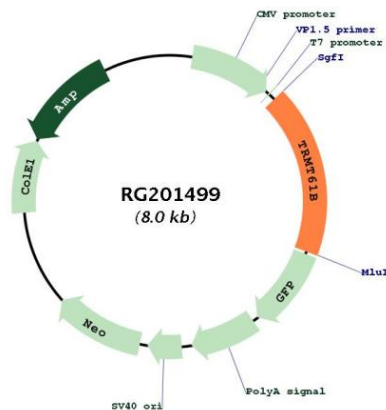
RefSeq Size: 1846 bp

RefSeq ORF: 1434 bp

Locus ID: 55006

UniProt ID:	Q9BVS5
Cytogenetics:	2p23.2
Protein Families:	Druggable Genome
Gene Summary:	Methyltransferase that catalyzes the formation of N(1)-methyadenine at position 58 (m1A58) in various tRNAs in mitochondrion, including tRNA(Leu) (deciphering codons UUA or UUG), tRNA(Lys) and tRNA(Ser) (deciphering codons UCA, UCU, UCG or UCC) (PubMed:23097428). Catalyzes the formation of 1-methyladenosine at position 947 of mitochondrial 16S ribosomal RNA and this modification is most likely important for mitoribosomal structure and function (PubMed:27631568). In addition to tRNA N(1)-methyltransferase activity, also acts as a mRNA N(1)-methyltransferase by mediating methylation of adenosine residues at the N(1) position of MT-ND5 mRNA, leading to interfere with mitochondrial translation (PubMed:29107537). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG201499