

Product datasheet for **MG216841**

Trmt2b (NM_172540) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Trmt2b
Synonyms:	4732479N06Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >MG216841 representing NM_172540
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCACAACCCAAGACTATTCCTTTCCAGAGCGGGTTTCTTCTCCAAACCAGGACTGCTTCCCTGGGATA
 CTGGAAGACCACCAGATTTGTACAGTCCTTATTGGGCAGAGCATATAAAGGGAGTTTCACCAGCGTGAT
 AGCTAAGAAGCACCAAGCAGACAAAAATATCAGAAGAAACAAGGCATTGTAGAGATGACTCCTGGCAG
 GAGAGGCTGGCTGATGTTGTGACTCCACTCTGGAGGCTGAGTTATGAAGCACAACCTCAAGGTGAAATTTG
 AAGCTCAGAAGAACTTTTACAAAGCCTAGAGTCTCACCTAAAAGTGCTCCATGGAGTCAGTGACACAGT
 GGCTGCACATCAGTCTGAGGGCTCCGCTGTCTCCTCCATCCCATTATACCCTCTCCTACCACCCTGGC
 TACCGGAACAAGTCCACCTTTTCTGTGTACAGGAGCCAGATGGCAATCCTAAAGACTGTGGGCTACTACC
 TAGGAACCTGGAAAGATGGAATGTCGTCTGTCTACCATGTAATCATCTGAAAAACATCCCAGAGAAACA
 CAGTCAAGTGGCTCAGTACTATGAAGTATTCCTTCGACAGTCTTCAGTGAACCCCTGCCTTCTTTTCAT
 GAAGGTGGACACTGGCGTGAACCTCGTAGTTTCGTACCAATAGGCAAGGACACACAATGGCTATTGTCACTT
 TTCATCCCCAGGGATTAAGTGAGGAGGAGGCTGTGTTTCAGAAGGTGACCTTGAAGGATTTTTCTACTAA
 AGGCCCTGGAGCGATCTGTGAATTGACCTCGCTCTATTTCCAGGAAAGCACCATGACCCGTTGCAGCCAT
 CAGCAGTCCCCCTACCAGCTCCTGTTGGGGAGCCCCACATCTTTGAGGATCTTCTGGGTTTGAAGATTC
 GAATTTCTCCAGATGCCTTCTCCAGATTAATACTGCTGGGCAGAGATGCTGTATCGGATCATTGGGGA
 GCTGAGTGGAGTGAACCTGAGAGCCTCCTCCTAGACATTTGCTGTGGCACGGGTGTGATTGGCCTCTCT
 GTGGCTCAGCGTGCCTCCAGGTTTCATGGCATTGAGCTAGTGGAGCAGGAGTAGAGGATGCCAGGTGGA
 CTGCAGCCTTCAATGGTGTACCAACTGTGAGTTTACGCTGGCAGAGCAGAGACGATTTTCCACAGCT
 GTTAAAGTCACAGAAAGATGAGAAAGTTGACTGTTGCTGTGGTGAACCCCTGCCCGAGCTGGATTGCATTAC
 AGAGTGGTGCAGGCCATTCGGAAGTGCAGGACCATCCACACTCTAGTGTGTTGTTTCTGCAAGCCCCATG
 GTGAAAGCACAAGGAACCTCATTGAACTATGCTGTCTCCAAATTCGCAAGCAGCTCCTAGGTGATCC
 ATTCGCTCTGAGAGAAGCTGTACCTGTGGATTTGTTTCCCCACACCCACACTGTGAGCTGGTTCCTCTC
 TTCACTCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

Protein Sequence: >MG216841 representing NM_172540
 Red=Cloning site Green=Tags(s)

MHNPRFLSRAGFFSKPGLLPWDTGRPPDLSQSLLGRAYKGSFTSVIAKKHPSRQKYQKKQRHCRDSSWQ
 ERLADVVTPLWRLSYEAQLKVKFEAQKLLQSLESHLKVHGVSDTVAAHQSEGLRCLLHP IIPSPPTTG
 YRNKSTFSVYRSPDGNPKTVGYLGTWKDGNVCLPCNHLKNIPEKHSQVAQYVEVFLRQSSVEPCLLH
 EGGHWREL VVRTNRQGHMAIVTFHPQGLSEEEVCVQKVTLKDFFTKGPGAICELTSLYFQESTMTRCSH
 QQSPYQLLFGEPHIFEDLLGLKIRISPDFAFFQINTAGAEMLYRIIGELSGVNSESLLLDICCCTGVIGLS
 VAQRASQVHGIELVEQAVEDARWTAAFNGVTNCFHAGRAETILPQLLKSQKDEKLTAVAVNPARAGLHY
 RVVRAIRNCRTHITLVFVSCKPHGESTRNFIELCCPPNSAKQLLGDPFVFLREAVPVDLFPHTPHCELVLL
 FTR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_172540

ORF Size: 1479 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:

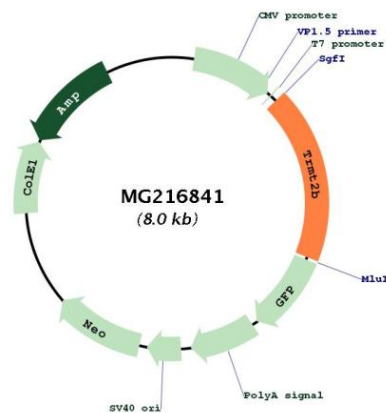
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_172540.2](#), [NP_766128.2](#)

RefSeq Size: 3261 bp

RefSeq ORF:	1482 bp
Locus ID:	215201
UniProt ID:	Q8BQJ6
Cytogenetics:	X E3
Gene Summary:	Probable S-adenosyl-L-methionine-dependent methyltransferase that catalyzes the formation of 5-methyl-uridine at position 54 (m5U54) in all tRNA. May also have a role in tRNA stabilization or maturation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MG216841