

## Product datasheet for **MG215665**

### Trmt10a (NM\_175389) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trmt10a (NM_175389) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trmt10a
Synonyms:	3110023L08Rik; AA794508; Rg9mtd2; Rnmtd2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG215665 representing NM_175389 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATATGTCATCTGAAATGCTGCCAGCATCCATCGAGTCTACTAATGTGGAGGAAAAGCTGGGTACGA  
GTGACGGTGAAGAGGAGAGACAGGAGCCTAGAGTGGATGCAGGGGCTGAGCCAATATCTAAACGGCAACT  
GAAGAAGCTGATGAAACAAAAACAGTGGGAAGAGCAACGTGAACAGCGCAAGGAGAAACGAAAAGAAAA  
CGGAAGAGAAAAGAAATTAGAACGACGCCAGCTGGAGTCCAACCTCAGATGGCAACGACAGGAAGCGCGTTC  
GGAGAGATGTTGCTCGCAGCAGCCTCCGCTGGTCATCGACTGTAGCTTTGATGACTTGATGGTGTAAA  
GGATATTAAGAACTTCATAAACAGATTCAACGATGTTATGCAGAAAACCGCCGAGCCTCTCATCCAGTG  
CAGTTTTACTTGACAAGCCATGGAGGTCAACTGAAGAAGAACATGGATGAGAACGACCAAGGATGGGTCA  
ACTGGAAGGATATTCACATCAAGTCAGAGCACTATAGTGAACCTATAAAAAAGAAGACCTGGTTTATCT  
GACGTCAGACTCACCTAATGTAAGGACTTAGATGAGTCAAAGGCCTACGTGATTGGAGGGCTAGTG  
GACCACAACCATCACAAGGGACTCACATTTAAACAAGCAACAGTTACGGAATCGAACATGCACAGCTCC  
CTCTTGACAGATTTGTGAAGATGAACAGTCGAAAAGTCTGGCCGTTAACCATGTGTTTGAATATCCT  
GGAGTTCTTGAAACAAGAGACTGGCAAGAGGCATTCTTTACAATCTTACCCCAACGAAAGGGGCGGTT  
CCTGCTACAAGGCCTGCGAAAGCTCTCCTCAGGACCACAGTCCCTGCCAGAAGGATGGGACAGTGCCA  
GCGAGGGAGAGAGTTGCAGGGATAATCCTGTCTACCACAGAAAGACGAGCAGGGCCAGCAGAGCAGCCC  
GTTTCTGCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG215665 representing NM\_175389  
 Red=Cloning site Green=Tags(s)

MNMSSEMLPASIESTNVEEKLGTSDGEEERQEPRVDAGAEPISKRQLKLMKQKQWEEQREQRKEKRKEK  
 RKRKKLERRQLESNSDGNDRKVRDRVARSSLRLVIDCSFDLMLVKDIKKLHKQIQRCYAENRRASHPV  
 QFYLTSHGGQLKKNMDENDQGWNWKDIIHKSEHYSEL IKKEDL VYL TSDSPNVLKDLDISKAYVIGGLV  
 DHNHHKGLTFKQATSYGIEHAQLPLADFVKMNSRKVLAVNHVFEIILEFLETRDWQEAFITILPQRKGAV  
 PAHKACESSPDHQSLPEGWDSASEGESCRDNPVSPQKDEQGQQSSPVLQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_175389

**ORF Size:** 990 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\\_175389.5](#)

**RefSeq Size:** 3935 bp

**RefSeq ORF:** 993 bp

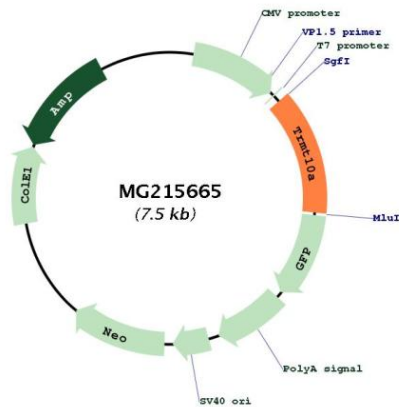
**Locus ID:** 108943

**UniProt ID:** [Q8C1Z8](#)

**Cytogenetics:** 3 G3

**Gene Summary:** S-adenosyl-L-methionine-dependent guanine N(1)-methyltransferase that catalyzes the formation of N(1)-methylguanine at position 9 (m1G9) in tRNAs. Probably not able to catalyze formation of N(1)-methyladenine at position 9 (m1A9) in tRNAs.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG215665