

Product datasheet for MR215665

Trmt10a (NM_175389) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Trmt10a (NM_175389) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Trmt10a
Synonyms: 3110023L08Rik; AA794508; Rg9mtd2; Rnmtd2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR215665 representing NM_175389
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGAATATGTCATCTGAAATGCTGCCAGCATCCATCGAGTCTACTAATGTGGAGGAAAAGCTGGGTACGA
 GTGACGGTGAAGAGGAGAGACAGGAGCCTAGAGTGGATGCAGGGGCTGAGCCAATATCTAAACGGCAACT
 GAAGAAGCTGATGAAACAAAAACAGTGGGAAGAGCAACGTGAACAGCGCAAGGAGAAACGAAAAGAAAA
 CGGAAGAGAAAAGAAATTAGAACGACGCCAGCTGGAGTCCAACCTCAGATGGCAACGACAGGAAGCGCGTTC
 GGAGAGATGTTGCTCGCAGCAGCCTCCGCCTGGTCATCGACTGTAGCTTTGATGACTTGATGGTGTAAA
 GGATATTAAGAACTTCATAAACAGATTCAACGATGTTATGCAGAAAACCGCCGAGCCTCTCATCCAGTG
 CAGTTTTACTTGACAAGCCATGGAGGTCAACTGAAGAAGAATGGATGAGAACGACCAAGGATGGGTCA
 ACTGGAAGGATATTCACATCAAGTCAGAGCACTATAGTGAACATAAAAAAGAAGACCTGGTTTATCT
 GACGTCAGACTCACCTAATGTAAGGACTTAGATGAGTCAAAGGCCTACGTGATTGGAGGGCTAGTG
 GACCACAACCATCACAAGGGACTCACATTTAAACAAGCAACAGTTACGGAATCGAACATGCACAGCTCC
 CTCTTGACAGATTTGTGAAGATGAACAGTCGAAAAGTCTGGCCGTTAACCATGTGTTTGAATATCCT
 GGATTTCTTGAAACAAGAGACTGGCAAGAGGCATTCTTTACAATCTTACCCCAACGAAAGGGGCGTT
 CCTGCTACAAGGCCTGCGAAAGCTCTCCTCAGGACCACAGTCCCTGCCAGAAGGATGGGACAGTGCCA
 GCGAGGGAGAGAGTTGCAGGGATAATCCTGTCTCACCACAGAAAGACGAGCAGGGCCAGCAGAGCAGCCC
 GTTTCTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR215665 representing NM_175389
Red=Cloning site Green=Tags(s)

MNMSSEMLPASIESTNVEEKLGTSDGEEERQEPRVDAGAEPISKRQLKKLMKQKQWEEQREQRKEKRKEK
 RKRKKLERRQLESNSDGNDRKVRDRVARSSRLVIDCSFDDLMLVKDIKKLHKQIQRCYAENRRASHPV
 QFYLTSHGGQLKKNMENDQGWVNWKDIHIKSEHYSEL IKKEDLYLTSDSPNVLKDLDESKAYVIGGLV
 DHNHHKGLTFKQATSYGIEHAQLPLADFKMNSRKVLAVNHVFEIILEFLETRDWEAFFTILPQRKGAV
 PAHKACESSPDHQSLPEGWDSASEGESCRDNPVSPQKDEQGQQSSPVLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9039_a10.zip

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

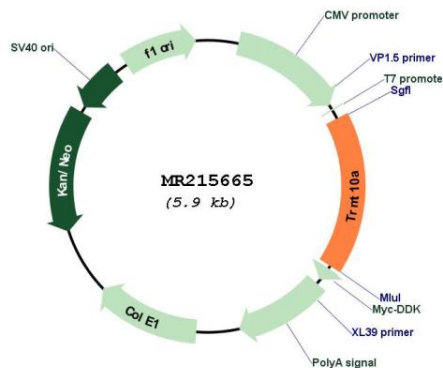
UniProt ID: [Q8C1Z8](#)

Cytogenetics: 3 G3

MW: 38.7 kDa

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 MR215665