

Product datasheet for MR206594

Trmu (NM_028063) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trmu (NM_028063) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trmu
Synonyms:	1110005N20Rik; 1600025P05Rik; AI314320; Trmt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206594 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGCGCTGCGGCACGTCGTGTGCGCCCTGTCTGGCGGTGTGGACAGCGCGGTGGCGGCCTGCTGT
TGGCGCGGAGAGGTTACCAGGTGACAGGGGATTTATGAAGAAGTGGACTCGCTGGATGAGCAGGGCGT
TTGTGCTGCTGACAAGGACTGTGAAGATGCGTATAAAGTTTGTGAGATCTTAGACATCCCTTTCCACCAG
GTGTCCTATGTGAAGGAGTATTGAATGATGTGTTGACTGCTTTTGAACGAGTATGAGAAAGGAAGGA
CTCCAAACCCCGACATCAACTGCAATAAGCATATCAAGTTCAGTTGCTTTTACTACTATGCTGTGGACAA
TCTTGGAGCAGATGCCGTTGCCACTGGCCACTACGCCAGGACCTCACTGGAGGATGAGGAAGTCTTTGAG
CAAAGCACACTAAGAAGCCTGACGGGCTGTTCAGAAATCGATTTGAAGTCAGAAACCCCGTAAACTTC
TCCAAGCAGCTGACAGCTTTAAAGACCAGACCTTCTTTCTCAGCCAGGTTTCCCAGGATGCCCTGAGAAG
GACCATCTTTCCCTGGGGAACTAACAAAAGATTTTGTAAAGAAAATAGCCGCGGAGAATAGCCTCCAT
CACGTGCTTCAGAAGAGAGAGCATGGGCATCTGCTTATTGGTAAGAGAACTGGAGCATTTCTTC
TTCAGTATTTGCAGCCTCGGCTGGAAAGTTTGTCTATCGAGGATAATACAGTTCTGGGAACACACAA
AGGTTGGTTCCTGTACACTTTGGCCAGAGAGCTAAGATCAGCGGCTTGAGAGAGCCCTGGTACGTGGT
GAGAAGGATGGCACAAGGGTGACGTGCTTGTGGCTCCCGGGTGGACCCAGCTCTGTACAGGGAC
TGCTCAGGACCAACCGAGTACACTGGATTGCGGAGGAGCCACTGCTGCCTTGGTCAGAGACAAGATGAT
GGAGTGCCATTTCCGATTCCGCCACCAGATGGCACTAGTGCCCTGCGTGCTGACTCTCAATCAGGATGGC
ACTGTGTGGGTAACGGCTGTGAAGGCTGTGAGGGCCTTGCCCTGGGACAGTTTGCAGTGTCTACAAGG
GTGAGGAGTGCCTCGGCAGTGGGAAAATCTGCGGCTAGGGCCGCTGCCTACACACTCCAGAAGGGTAA
GAACAGAACTCGAGTGGCTCCCGAGGCTCCAGTGACAGCCAGGCTGCACCCACATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206594 protein sequence
 Red=Cloning site Green=Tags(s)

MSALRHVVCALSGGVDSAVAALLRRRGYQVTGVFMKNWDSLDEQGVCAADKDCEDAYKVCQILDIPFHQ
 VSYVKEYWNVDFSDFLNEYEKGRTPNPDINCNKHIKFCFHYHYAVDNLGADAVATGHYARTSLEDEEVFE
 QKHTKKPDGLFRNRFVVRNPVKLLQAADSFKDQTFLLSQVSDALRRTIFPLGELTKDFVKKIAAENSLH
 HVLQKRESMGICFIGKRNLEHFLQYLQPRPGKFVSIEDNTVLGTHKGWFLYTLGQRAKISGLREPWYVV
 EKDGTKGDVLVAPRVDHPALYRDLLRTNRVHWIAEPPAALVRDKMMECHFRRHQMALVPCVLTLNQDG
 TVWVTAVKAVRGLALGQFAVFYKGEECLGSGKILRLGPSAYTLQKGNRTRVAPEASSDSPGLHPTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_028063

ORF Size: 1254 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_028063.2](#), [NP_082339.1](#)

RefSeq Size: 1520 bp

RefSeq ORF: 1254 bp

Locus ID: 72026

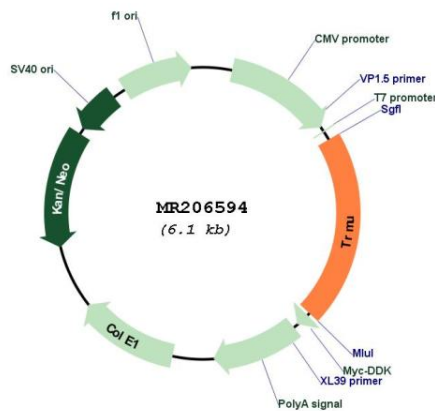
UniProt ID: [Q9DAT5](#)

Cytogenetics: 15 E2

MW: 47.2 kDa

Gene Summary: Catalyzes the 2-thiolation of uridine at the wobble position (U34) of mitochondrial tRNA(Lys), tRNA(Glu) and tRNA(Gln). Required for the formation of 5-taurinomethyl-2-thiouridine (tm5s2U) of mitochondrial tRNA(Lys), tRNA(Glu), and tRNA(Gln) at the wobble position. ATP is required to activate the C2 atom of the wobble base.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206594