

Product datasheet for **MG206594**

Trmu (NM_028063) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Trmu (NM_028063) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Trmu
Synonyms: 1110005N20Rik; 1600025P05Rik; AI314320; Trmt1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG206594 representing NM_028063
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGCGCTGCGGCACGTCGTGTGCGCCCTGTCTGGCGGTGTGGACAGCGCGGTGGCGGCCTGCTGT
 TGCGGCGGAGAGGTTACCAGGTGACAGGGGATTTATGAAGAAGTGGACTCGCTGGATGAGCAGGGCGT
 TTGTGCTGCTGACAAGGACTGTGAAGATGCGTATAAAGTTTGTGAGATCTTAGACATCCCTTTCCACCAG
 GTGTCCTATGTGAAGGAGTATTGAATGATGTGTTGACTGACTTTTTGAACGAGTATGAGAAAGGAAGGA
 CTCCAAACCCCGACATCAACTGCAATAAGCATATCAAGTTCAGTTGCTTTTACTACTATGCTGTGGACAA
 TCTTGGAGCAGATGCCGTTGCCACTGGCCACTACGCCAGGACCTCACTGGAGGATGAGGAAGTCTTTGAG
 CAAAAGCACACTAAGAAGCCTGACGGGCTGTTCAGAAATCGATTTGAAGTCAGAAACCCCGTAAACTTC
 TCCAAGCAGCTGACAGCTTTAAAGACCAGACCTTCTTTCTCAGCCAGGTTTCCCAGGATGCCCTGAGAAG
 GACCATCTTTCCCTGGGGAACTAACAAAAGATTTTGTAAAGAAAATAGCCGCGGAGAAATAGCCTCCAT
 CACGTGCTTCAGAAGAGAGAGAGCATGGGCATCTGCTTATTGGTAAGAGAAAAGTGGAGCATTTCTTC
 TTCAGTATTTGCAGCCTCGGCTGGAAAGTTTGTCTATCGAGGATAATACAGTTCTGGGAACACACAA
 AGGTTGGTTCCTGTACACTTTGGCCAGAGAGCTAAGATCAGCGGCTTGAGAGAGCCCTGGTACGTGGTG
 GAGAAGGATGGCACCAAGGGTGACGTGCTTGTGGCTCCCGGGTGGACCACCCAGCTCTGTACAGGGACC
 TGCTCAGGACCAACCGAGTACACTGGATTGCGGAGGAGCCACTGCTGCCTTGGTCAGAGACAAGATGAT
 GGAGTGCCATTTCCGATTCCGCCACCAGATGGCACTAGTGCCCTGCGTGCTGACTCTCAATCAGGATGGC
 ACTGTGTGGGTAACGGCTGTGAAGGCTGTGAGGGCCTTGCCCTGGGACAGTTTGCAGTGTCTACAAGG
 GTGAGGAGTGCCTCGGCAGTGGGAAAACTCTGCGGCTAGGGCCGCTGCCTACACACTCCAGAAGGGTAA
 GAACAGAAGTTCGAGTGGCTCCCGAGGCTCCAGTGACAGCCAGGCTGCACCCACATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206594 representing NM_028063
 Red=Cloning site Green=Tags(s)

MSALRHVVICALSGGVDSAVAALLRRRGYQVTGVFMKNWDSLDEQGVCAADKDCEDAYKVCQILDIPFHQ
 VSYVKEYWNVDFSDFLNEYEKGRTPNPDINCNKHIKFCFYHYAVDNLGADAVATGHYARTSLEDEEVFE
 QKHTKKPDGLFRNRFVVRNPVKLLQAADSFKDQTFLLSQVSDALRRTIFPLGELTKDFVKKIAAENSLH
 HVLQKRESMGICFIGKRNLEHFLQLYLRPRGKVFVSIEDNTVLGTHKGWFLYTLGQRAKISGLREPWYVV
 EKDGTKGDVLVAPRVDHPALYRDLLRTNRVHWIAEPPAALVRDKMMECHFRRHQMALVPCVLTLNQDG
 TVWVTAVKAVRGLALGQFAVFKGEECLGSGKILRLGPSAYTLQKGNRTRVAPEASSDSPGLHPTS

TRTRPLE - GFP Tag - V

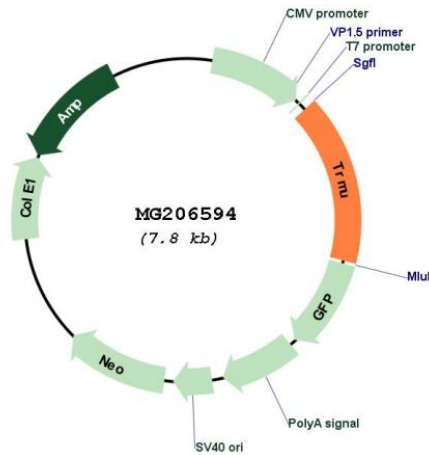
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_028063

ORF Size:	1251 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:	<ol style="list-style-type: none">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
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]