

Product datasheet for **RR209812**

Trmu (NM_001135876) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Trmu (NM_001135876) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Trmu
Synonyms: Trmt1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR209812 representing NM_001135876
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCGGCGTTGCGGCACGTCGTGTGTGCCCTGTCTGGCGGCGTGGACAGCGCGGTGGCCGCGTGTCTGT
 TACGGCGGAGAGGTTACCAGGTGACAGGGGATTTATGAAGAAGTGGACTCGCTGGATGAGCAGGGCAT
 TTGTGCTGCTGACAAGGACTGTGAAGATGCGTATAAAGTGTGTGATCTTAGACATCCCTTTCCACCAG
 GTGTCCTATGTGAAGGAGTATTGGAATGATGTATTCAGTGACTTTCTGAACGAGTATGAGAAGGGGAAGGA
 CCCCGAACCCCGACATCAGCTGCAACAAGCACATCAAGTTCAGCTGCTTTACCATTATGCTGTGGACAA
 TCTTGGAGCAGATGCTGTTGCCACTGGCCACTATGCAAGGACGTCCTGGAGGATGAGGAAGTCTTTGAG
 CAAAAGCACACTAAGAGACCAGATGGACTGTTCAGGAATCGATTTGAAGTCAGAAATCCCGTAAACTTC
 TCCAAGCAGCTGACAGCTTTAAAGACCAGACCTCTTTCTCAGCCAGGTTTCCAGGATGCCCTGAGAAG
 AACCATCTTCCCCTGGGGGAATTAACAAAAGATTTTGTAAAGAAAATAGCTGCGGAGAATAGACTCCAT
 CATGTGCTTCAGAAGAAAGAGAGCATGGGCATCTGCTTCATTGGTAAGAGAAAACCTGGAGCATTTCTTC
 TTCAGTATTTGCAGCCTCGCCCTGGGAAGTTTATTCTATCGAGGATAACAGAGTCTGGGAACACACAA
 AGGTTGGTTCTATACATTGGGCCAGAGAGCTAAGATCAGCGGCTTGAGCGAGCCTGGTACGTGGTG
 GAGAAGGATGGCACCAAGGGTGACGTGCTGTGGCTCCCCGGTAGACCATCCAGCTCTGTACAGGGACC
 TGCTGAGGACCAACCGAGTGCACTGGATAGCTGAGGAACCACTGCAGCCTTGGTCAGAGACAAGATGAT
 GGAGTGCCACTTCCGATTCGCCACCAGATGGCACTAGTGCCCTGTGTGCTGACGCTCAACCAGGATGGC
 ACTGTGTGGGTGACGGCTGTGAAGGCTGTGAGGGGCTTGGCCTGGGACAGTTTGCAGTGTCTACAAGG
 GTGAGGAATGCCTCGGCAGTGGGAAAATCCTGCGGTTAGGGCCATCTGCCTACACACTCCAGAAGGGCAA
 GAACAGAACCAGAGTGGCTCCTGAGGTCTCCAGTGACAGCCAGGCTGCACCCACATCC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR209812 representing NM_001135876
 Red=Cloning site Green=Tags(s)

MSALRHVVCALSGGVDSAVAALLRRRGYQVTGVFMKNWDSLDEQGICAADKDCEDAYKVCQILDIPFHQ
 VSYVKEYWNDVFSDFLNEYEKGRTPNPDISCNKHIKFSCHFHYAVDNLGADAVATGHYARTSLEDEEVFE
 QKHTKRPDGLFRNRFEVRNPVKLLQAADSFKDQTFLLSQVSDALRRTIFPLGELTKDFVKKIAAENRLH
 HVLQKKE SMGICFIGKRNLEHFLQYLQPRPGKFI SIEDNRVLGTHKGWFLYTLGQRAKISGLSEPWYVV
 EKDGTGKDVLVAPRVDHPALYRDLLRTNRVHWIAEPPAALVRDKMMECHFRRHQMALVPCVLTLNQDG
 TVWVTAVKAVRGLALGQFAVFYKGEECLGSGKILRLGPSAYTLQKGNRTRVAPEVSSDSPGLHPTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

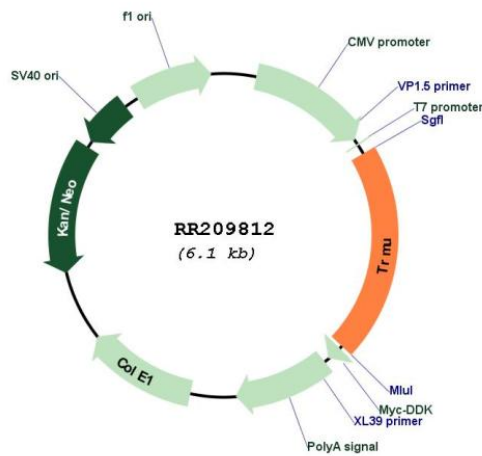
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001135876

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_001135876.1 , NP_001129348.1
RefSeq Size:	1566 bp
RefSeq ORF:	1254 bp
Locus ID:	362976
Cytogenetics:	7q34
MW:	47.3 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]