

Product datasheet for **RG219032**

TRMT1 (TRMU) (NM_018006) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRMT1 (TRMU) (NM_018006) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRMT1
Synonyms:	LCAL3; MTO2; MTU1; TRMT; TRMT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219032 representing NM_018006 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAAGCCTTGCAGCAGTCTGTGCGCCCTGTCCGGCGCGTGGACAGCGCCGTGGCCGCGCTGCTGC
TGAGGCGGAGAGGTTACCAGGTGACAGGGGTGTTATGAAGAAGTGGACTCACTGGATGAACATGGGGT
CTGTACTGCCGACAAAGACTGTGAAGATGCTTACAGAGTTTCCAGATCTTAGACATCCCTTTCCATCAA
GTGTCCTACGTAAGGAGTATTGAATGATGTGTTCACTGACTTTTTGAATGAGTATGAAAAGGAAGGA
CTCCCAATCCTGACATAGTTTGAACAAGCACATCAAATTTAGTTGCTTTTTTTCATTATGCTGTGGATAA
TCTTGGGCGAGATGCCATTGCCACAGGTCACTATGCAAGAAGTCCCTGGAAGATGAAGAAGTCTTTGAG
CAGAAGCACGTTAAGAAGCCGAAGGGCTTTTCAGAAATCGGTTTGAAGTTAGAAATGCGGTAAGTCC
TCCAGGCAGCTGACAGCTTTAAAGACCAGACCTTCTTCTCAGCCAGGTTTCCCAGGATGCCCTGAGGAG
AACCATCTCCCTCTGGGGGATTAACGAAAGAGTTTGTAAAGAAAATCGCTGCTGAGAATAGACTTCAT
CATGTGCTTCAGAAGAAAGAGAGCATGGGCATGTGTTTTCATCGGGAAGAGGAATTTTGAACATTTCTTC
TTCAGTATCTGCAGCCTCGACCTGGTCACTTTATTTCCATAGAAGACAATAAGGTTCTGGGAACACATAA
AGGTTGGTTCTGTATACCTTGGGCCAGAGAGCAAACATAGGTGGCCTGAGAGAGCCCTGGTACGTGGTG
GAGAAGGACAGCGTCAAGGGTGACGTGTTTGTGGCCCCCGGACAGACCACCCAGCCCTGTACAGGGACC
TGCTGAGGACCAGCCGCTGCACTGGATTGCGGAGGAGCCTCCCGCAGCACTGGTCCGGGACAAGATGAT
GGAGTGCCACTTCCGATTCCGCCACCAGATGGCACTAGTGCCCTGTGTGCTGACCCTCAATCAAGATGGC
ACCGTGTGGGTGACAGCTGTGCAGGCTGTGCGTGCCCTTGCCACAGGACAGTTTGTGTGTTCTACAAGG
GGGACGAGTGCCTGGGCAGCGGGAAGATCCTGCGGCTGGGGCCGTCTGCCTACACGCTCCAGAAGGGCCA
GCGCAGAGCTGGGATGGCCACTGAGAGCCCCAGTGACAGCCAGAAGATGGTCCAGGCTGAGTCCCTTG
CTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219032 representing NM_018006
Red=Cloning site Green=Tags(s)

MQALRHVVCALSGGVDSAVAALLRRRGYQVTGVFMKNWDSLDEHGVCTADKDCEDAYRVCQILDIPFHQ
 VSYYKEYWNDVFSDFLNEYEKGRTPNPDIVCNKHIKFSFFFHYAVDNLGADAIATGHYARTSLEDEEVFE
 QKHVKKPEGLFRNRFEVRNAVKLLQAADSFKDQTFFLSQVSDALRRTIFPLGGLTKEFVKKIAAENRLH
 HVLQKKESMGMCFIGKRNFEHFLQLYLQPRPGHFISIEDNKVLGTHKGWFLYTLGQRANIGGLREPWYVV
 EKDSVKGDVVFVAPRTHPALYRDLLRTRSRVHWIAEPPAALVRDKMMECHFRRHQMALVPCVLTNLNQDG
 TVWVTAVQAVRALATGQFAVFKGDECLGSGKILRLGPSAYTLQKQRRAGMATESPSDSPEDGPGLSPL
 L

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_018006

ORF Size: 1263 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_018006.5](#)

RefSeq Size: 1970 bp

RefSeq ORF: 1266 bp

Locus ID: 55687

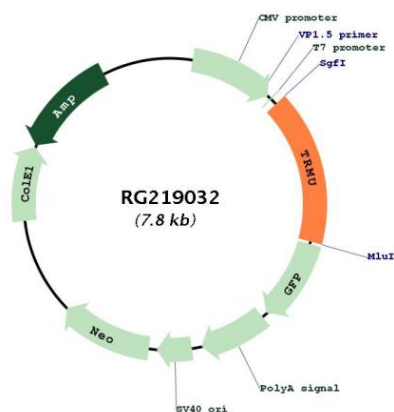
UniProt ID: [O75648](#)

Cytogenetics: 22q13.31

Domains: tRNA_Me_trans

Gene Summary: This nuclear gene encodes a mitochondrial tRNA-modifying enzyme. The encoded protein catalyzes the 2-thiolation of uridine on the wobble positions of tRNA(Lys), tRNA(Glu), and tRNA(Gln), resulting in the formation of 5-taurinomethyl-2-thiouridine moieties. Mutations in this gene may cause transient infantile liver failure. Polymorphisms in this gene may also influence the severity of deafness caused by mitochondrial 12S ribosomal RNA mutations. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]

Product images:



Circular map for RG219032