

Product datasheet for **RG237599**

MTRF1L (NM_001301870) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTRF1L (NM_001301870) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTRF1L
Synonyms:	HMRF1L; MRF1L; mtRF1a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237599 representing NM_001301870. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGGTCCCGGTTCTGTGGGGCGCTGCCGGTGGCTCTGGCCCGCCGGGCGGTTGGCCAGCCCGC
CGGCCCTGAGCTCCGGTAGCCCGCGCTGGAGGAGCTGTTACCCGGGGCGGGCCTTGCGGACCTTC
CTCGAGCGCCAGGCGGGTCTGAAGCCATTTGAAGGTCAGGAGGCCGAGTTGCTGGCGGTGATCAAA
CTGCTGAACGAGAAGGAGCGGGAGCTGCCGGAGACTGAGCACTTGTGCACGATGAGAATGAAGATTTA
AGGAACTTGCAGAGAATGAAATCACTTTGTGTCAAAAAGAAATAACTCAGCTGAAGCATCAGATTATC
TTACTTTTGGTCCCTCAGAAGAAACAGATGAAAATGATTTGATCCTGGAAGTAAGTGCAGGAGTTGGA
GGTGGCCTTAGACATGCATCTGCCAGCATTGGGGTTCAGAAGCCTATAGGCACATGAAATTTGAAGGA
GGTGTTCACAGAGTACAAGAGTGCCAAAGACAGAAAAGCAAGGCCGCGTCCATACTAGCACCATGACT
GTAGCAATATTACCCAGCCTACTGAGATTAATCTGGTATTAATCCGAAAGATTTGAGAATTGACT
AAGCGAGCCAGTGGAGCTGGGGGCGAGCATGTAATACCACGGACAGTGTGTCCGGATAGTTTCATCTT
CCAACAGGTGTTGTTTCTGAATGTCAACAAGAGAGATCTCAGCTGAAAAATAAAGAGCTGGCTATGACA
AAGTTACGTGCAAACTGTACAGCATGCATCTAGAAGAAGAAATAAATAAAGACAGAATGCTAGAAAA
ATTCAGATTGGAAGTAAAGGAAGATCAGAGAAAATAAGAACATATAATTTCCACAGAACCGGGTCACA
GATCACAGAATAACAAGACGCTGCATGATCTTGAACTTTTATGCAAGGAGATTATCTACTGGATGAA
CTTGACAGTCATTGAAGGAATACGCCGATTATGAATCTTTAGTAGAAATTTCCCAAAAAGTT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237599
 Blue=ORF Red=Cloning site Green=Tag(s)

MRSRVLWGAARWLWPRRAVGPARRPLSSGSPLEELFTRGGPLRTFLERQAGSEAHLKVRPELLAVIK
 LLNEKERELRETEHLLHDENEDLRKLAENEITLCQKEITQLKHQIILLVPSEETDENDLILEVTAGVG
 GGLRHASASIGGSEAYRHMKEFGVHRVQVVKTEKQGRVHTSTMTVAIILPQPTVINLVINPKDLRIDT
 KRASGAGGQHVNTTDSAVRIVHLPTGVVSECQEQERSQLKNKELAMTKLRAKLYSMHLEEEINKRQNKARK
 IQIGSKGRSEKIRTYNFPQNRVTDHRINKTLHDLETFMQGDYLLDELVQSLKEYADYESLVEIISQKV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001301870

ORF Size: 1032 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).

RefSeq: [NM_001301870.2](#)

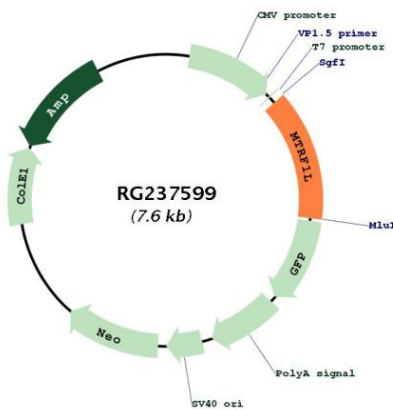
RefSeq Size: 3707 bp

RefSeq ORF: 1035 bp

Locus ID: 54516
UniProt ID: [Q9UGC7](#)
Cytogenetics: 6q25.2
MW: 39.6 kDa

Gene Summary: The protein encoded by this gene plays a role in mitochondrial translation termination, and is thought to be a release factor that is involved in the dissociation of the complete protein from the final tRNA, the ribosome, and the cognate mRNA. This protein acts upon UAA and UAG stop codons, but has no in vitro activity against UGA, which encodes tryptophan in human mitochondrion, or, the mitochondrial non-cognate stop codons, AGA and AGG. This protein shares sequence similarity to bacterial release factors. Pseudogenes of this gene are found on chromosomes 4, 8, and 11. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2014]

Product images:



Circular map for RG237599