

Product datasheet for **RG225365**

MTRF1L (NM_001114184) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTRF1L (NM_001114184) 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:	>RG225365 representing NM_001114184 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGTCCCGGGTTCTGTGGGGCGCTGCCGGTGGCTCTGGCCCCGCCGGGCGTTGGCCAGCCCGCC
GGCCCCCTGAGCTCCGGTAGCCCGCCGCTGGAGGAGCTGTTACCCGGGGCGGGCCCTTGGCGACCTTCT
CGAGCGCCAGGCGGGTCTGAAGCCATTTGAAGGTCAGGAGGCCGAGTTGCTGGCGGTGATCAAAGT
CTGAACGAGAAGGAGCGGGAGCTGCGGGAGACTGAGCACTTGTGCACGATGAGAATGAAGATTTAAGGA
AACTTGCAGAGAATGAAATCACTTTGTGTCAAAAAGAAATAACTCAGCTGAAGCATCAGATTATCTTACT
TTTGTTCCCTCAGAAGAAACAGATGAAAATGATTTGATCCTGGAAGTAAGTGCAGGAGTTGGAGGTCAG
GAGGCAATGTTGTTTACATCAGAGATATTTGATATGTATCAGCAATATGCTGCATTTAAAAGATGGCATT
TTGAAACCCTGGAATATTTTCCAAGTGAAGTAGGTGGCCTTAGACATGCATCTGCCAGCATTGGGGGTTT
AGAAGCCTATAGGCACATGAAATTTGAAGGAGGTGTTACAGAGTACAAAGAGTGCCAAAGACAGAAAAG
CAAGGCCGCGTCCATACTAGCACCATGACTGTAGCAATATTACCCAGCCTACTGAGATTAATCTGGTGA
TTAATCCGAAAGATTTGAGAATTGACACTAAGCGAGCCAGTGGAGCTGGGGGCAGCATGTAATACCCAC
GGACAGTGCTGTCCGGATAGTTCATCTTCCAACAGATTGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225365 representing NM_001114184
 Red=Cloning site Green=Tags(s)

MRSRVLWGAARWLWPRRAVGPARRPLSSGSPLEELFTRGGPLRTFLERQAGSEAHLKVRPPELLAVIKL
 LNEKERELRETEHLLHDENEDLRKLAENEITLCQKEITQLKHQIILLVPSEETDENDLILEVTAGVGGQ
 EAMFLTSEIFDMYQQYAAFKRWHFETLEYFPSELGGLRHASASIGGSEAYRHMKFEGGVHRVQRPVKTEK
 QGRVHTSTMTVAILPQPTTEINLVINPKDLRIDTKRASGAGGQHVNTTDSAVRIVHLPTDWK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001114184

ORF Size: 813 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_001114184.3](#)

RefSeq Size: 3741 bp

RefSeq ORF: 816 bp

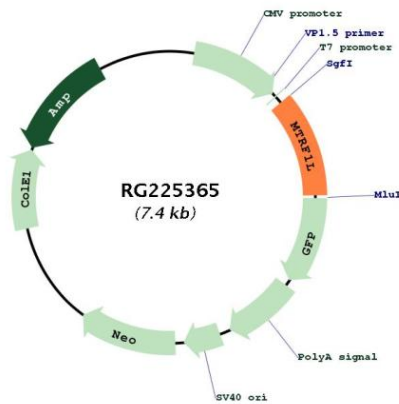
Locus ID: 54516

UniProt ID: [Q9UGC7](#)

Cytogenetics: 6q25.2

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 RG225365