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Product datasheet for RC236817

MTRF1L (NM_001301871) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTRF1L (NM_001301871) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MTRF1L
Synonyms:	HMRF1L; MRF1L; mtRF1a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC236817 representing NM_001301871 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTTGTTTACATCAGAGATATTTGATATGTATCAGCAATATGCTGCATTTAAAAGATGGCATTTTGAAA CCCTGGAATATTTTCCAAGTGAACTAGGTGGCCTTAGACATGCATCTGCCAGCATTGGGGGTTCAGAAGC CTATAGGCACATGAAATTTGAAGGAGGTGTTCACAGAGTACAAAGAGTGCCAAAGACAGAAAAGCAAGGC CGCGTCCATACTAGCACCATGACTGTAGCAATATTACCCCAGCCTACTGAGATTAATCTGGTGATTAATC CGAAAGATTTGAGAATTGACACTAAGCGAGCCAGTGGAGCTGGGGGGCAGCATGTAAATACCACGGACAG TGCTGTCCGGATAGTTCATCTTCCAACAGGTGTTGTTTCTGAATGTCAACAAGAGAGATCTCAGCTGAAA AATAAAGAGCTGGCTATGACAAAGTTACGTGCAAAACTGTACAGCATGCATCTAGAAGAAGAAATAAATA AAAGACAGAATGCTAGAAAAATTCAGATTGGAAGTAAAGGAAGATCAGAGAAAATAAGAACATATAATTT TCCACAGAACCGGGTCACAGATCACAGAATAAACAAGACGCTGCATGATCTTGAAACTTTTATGCAAGGA GATTATCTACTGGATGAACTTGTACAGTCATTGAAGGAATACGCCGATTATGAATCTTTAGTAGAAATTA TTTCCCAAAAAGTT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

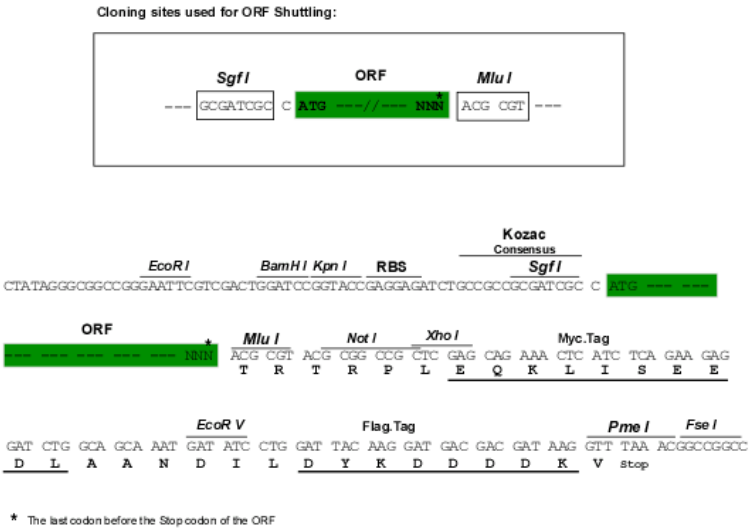
>RC236817 representing NM_001301871
Red=Cloning site Green=Tags(s)

MLFTSEIFDMYQQYAAFKRWHFETLEYFPSELGGLRHASASIGGSEAYRHMKFEGGVHRVQRVPKTEKQG
RVHTSTMTVAILPQPTEINLVINPKDLRIDTKRASGAGGQHVNTTDSAVRIVHLPTGVVSECQQERSQLK
NKELAMTKLRAKLYSMHLEEEINKRQNARKIQIGSKGRSEKIRTYNFPQNRVTDHRINKTLHDLETFMQG
DYLLDELVQSLKEYADYESLVEIISQKV

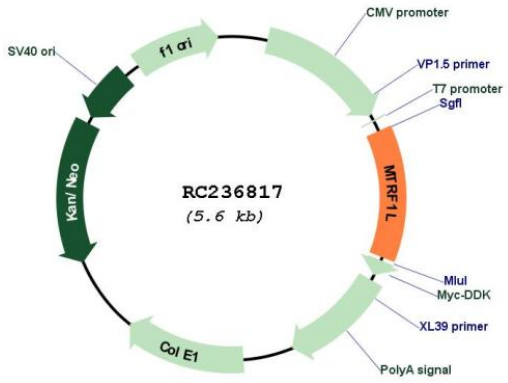
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001301871

ORF Size: 714 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_001301871.2
RefSeq Size:	3790 bp
RefSeq ORF:	717 bp
Locus ID:	54516
UniProt ID:	Q9UGC7
Cytogenetics:	6q25.2
MW:	27.8 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]