

Product datasheet for RC204221L4

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OriGene Technologies, Inc.

MTRF1L (NM_019041) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: MTRF1L (NM_019041) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: MTRF1L

Synonyms: HMRF1L; MRF1L; mtRF1a

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC204221).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_019041

ORF Size: 1140 bp



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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: <u>NM 019041.3</u>

RefSeq Size: 3815 bp RefSeq ORF: 1143 bp

Locus ID: 54516

UniProt ID: Q9UGC7

Cytogenetics: 6q25.2

Domains: RF-1, PCRF

MW: 43.5 kDa

Gene Summary: The protein encoded by this gene plays a role in mitochondrial translation termination, and is

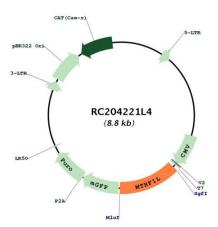
thought to be a release factor that is involved in the dissociation of the complete protein from the final tRNA, the ribosome, and the cognate mRNA. This protein acts upon UAA and UAG stop codons, but has no in vitro activity against UGA, which encodes tryptophan in human mitochondrion, or, the mitochondrial 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 RC204221L4