

## Product datasheet for **SC333670**

### **MTRF1L (NM\_001301872) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MTRF1L (NM\_001301872) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** MTRF1L  
**Synonyms:** HMRF1L; MRF1L; mtRF1a  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >SC333670 representing NM\_001301872.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCGGTCCCGGTTCTGTGGGCGCTGCCGGTGGCTCTGGCCCGCCGGGCGTTGGCCAGCCCGC
CGGCCCTGAGCTCCGGTAGCCCGCTGGAGGAGCTGTTACCCGGGCGGGCCCTTGCGGACCTTC
CTCGAGCGCCAGGCGGGTCTGAAGCCATTTGAAGGTCAGGAGGCCGAGTTGCTGGCGGTGATCAA
CTGCTGAACGAGAAGGAGCGGGAGCTGCGGGAGACTGAGCACTTGTGCACGATGAGAATGAAGATTTA
AGGAACTTGCAGAGAATGAAATCACTTTGTGTCAAAAAGAAATAACTCAGCTGAAGCATCAGGTATGG
TATTTCTGCAAAGAATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001301872  
**Insert Size:** 363 bp  
**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  
**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\\_001301872.1](#)

**RefSeq Size:** 733 bp

**RefSeq ORF:** 363 bp

**Locus ID:** 54516

**Cytogenetics:** 6q25.2

**MW:** 14.2 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]

Transcript Variant: This variant (6) lacks several exons and its 3' terminal exon extends past a splice site that is used in variant 1. This results in a novel 3' coding region and 3' UTR, compared to variant 1. This variant encodes isoform 6 which is shorter and has a distinct C-terminus, compared to isoform 1.