

## Product datasheet for **RG229688**

### MRRF (NM\_001173512) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MRRF (NM\_001173512) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MRRF  
**Synonyms:** MRFF; MTRRF; RRF  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG229688 representing NM\_001173512  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTTGGGATTAAGTGCTCCGCATGGTCCACCCTACCTTCGCAATTATCTTGCAGCCTCTATCA  
GACCCGTTTCAGAAGTTACTGAAGACAGTGCATGAAAGACAACATGGCCATAGGCAATACATGGCCTA  
TTCAGCTGTACCAGTCCGCCATTTGCTACCAAGAAAGCCAAAGGATCCCTTGACAAGATTGCTGTGGTA  
ACTGCTGACGGGAAGCTTGCTTTAAACCAGATTAGCCAGATCTCCATGAAGTCGCCACAGCTGATTTGG  
TGAATATGGCCAGCTTCCAGAGTGTACAGCTGCAGCTATCAAGGCTATAAGAGAAAGTGAATGAATCT  
GAACCCAGAAGTGAAGGGACGCTAATTCGGGTACCCATTCCCCAAGTAACCAGAGAGCACAGAGAAATG  
CTGGTGAAACTGGCCAAACAGAACCAACAAGGCCAAAGACTCTTTACGGAAGTTTCGCCACCAACTCAA  
TGAAACAAGCTGAAGAAATCCAAGGATACAGTCTCAGAGGACACCATTAGGCTAATAGAGAAACAGATCAG  
CCAAATGGCCGATGACACAGTGGCAGAAGTGGACAGGCATCTGGCAGTGAAGACCAAGAAGTCTTGGTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG229688 representing NM\_001173512  
Red=Cloning site Green=Tags(s)

MALGLKCFRMVHPTFRNYLAASIRPVSEVTLKTVHERQHGHRQYMAYSAPVPRHFATKKAKGSLDKIAVV  
TADGKLALNQISQISMSPQLILVNMAFPECTAAAIKAIRESGMNLNPEVEGTLIRVPIPVQVTRHREM  
LVKLAKQNTNKAKDSLKRVRTNSMNKLLKSKDVTSEDTIRLIEKQISQMADDTVAELDRHLAVKTKELLG

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI

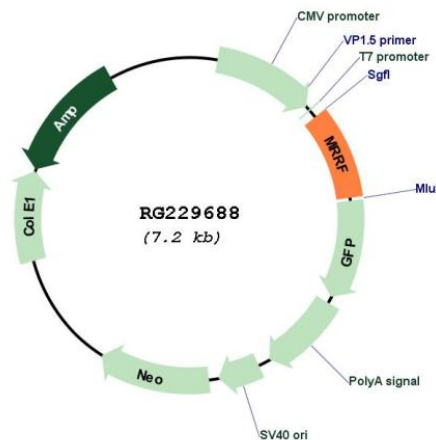


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001173512

ORF Size: 630 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\\_001173512.2](#)

**RefSeq Size:** 1880 bp

**RefSeq ORF:** 633 bp

**Locus ID:** 92399

**UniProt ID:** [Q96E11](#)

**Cytogenetics:** 9q33.2

**Protein Families:** Transmembrane

**Gene Summary:** This gene encodes a ribosome recycling factor, which is a component of the mitochondrial translational machinery. The encoded protein, along with mitochondrial elongation factor 2, functions in ribosomal recycling at the termination of mitochondrial translation by mediating the disassembly of ribosomes from messenger RNA. A pseudogene of this gene has been identified on chromosome X. [provided by RefSeq, Oct 2016]