

Product datasheet for **RG203909**

MRRF (NM_138777) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRRF (NM_138777) 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:	>RG203909 representing NM_138777 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTTGGGATTAAGTGCTCCGCATGGTCCACCCTACCTTTCGCAATTATCTTGCAGCCTCTATCA
GACCCGTTTCAGAAGTTACTGAAGACAGTGCATGAAAGACAACATGGCCATAGGCAATACATGGCCTA
TTCAGCTGTACCAGTCCGCCATTTTGCTACCAAGAAAGCCAAAGCCAAAGGGAAAGGACAGTCCCAAACC
AGAGTGAATATTAATGCTGCCTTGGTTGAGGATATAATCAACTTGAAGAGGTGAATGAAGAAATGAAGT
CTGTGATAGAAGCTCTCAAGGATAATTTCAATAAGACTCTCAATATAAGGACCTCACCAGGATCCCTTGA
CAAGATTGCTGTGGTAAGTCTGACGGGAAGCTTGCTTTAAACCAGATTAGCCAGATCTCCATGAAGTCG
CCACAGCTGATTTTGGTGAATATGGCCAGCTTCCAGAGTGTACAGCTGCAGCTATCAAGGCTATAAGAG
AAAGTGAATGAATCTGAACCCAGAAGTGAAGGGACGCTAATTCGGGTACCCATTCCCCAAGTAACCGAG
AGAGCACAGAGAAATGCTGGTGAAGTGGCCAAACAGAACACCAACAAGGCCAAAGACTCTTTACGGGAA
GTTTCGCACCAACTCAATGAACAAGCTGAAGAAATCCAAGGATACAGTCTCAGAGGACACCATTAGGCTAA
TAGAGAAACAGATCAGCCAAATGGCCGATGACACAGTGGCAGAAGTGGACAGGCATCTGGCAGTGAAGAC
CAAAGAACTCCTTGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203909 representing NM_138777
 Red=Cloning site Green=Tags(s)

MALGLKCFRMVHPTFRNYLAASIRPVSEVTLKTVHERQHGHRQYMAYSAVPVRHFATKKAKAKGKGSQT
 RVNINAALVEDIINLEEVNEEMKSVIEALKDNFNKTLNIRTSPGSLDKIAVVTADGKLALNQISQISMKS
 PQLILVNMAFPECTAAAIAKAIRESGMNLNPEVEGTLIRVPIPQVTRHREMLVKLAKQNTNKAKDSLRLK
 VRTNSMNLKSKSDTVSEDTIRLIEKQISQMADDTVAELDRHLAVKTKELLG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138777

ORF Size: 786 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_138777.5](#)

RefSeq Size: 1787 bp

RefSeq ORF: 789 bp

Locus ID: 92399

UniProt ID: [Q96E11](#)

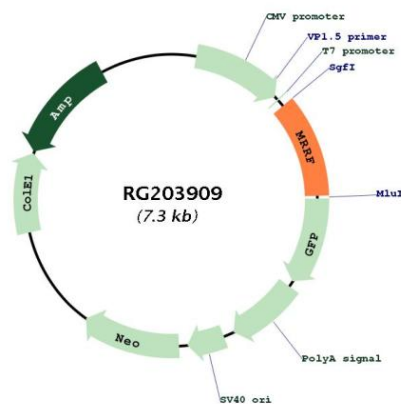
Cytogenetics: 9q33.2

Domains: RRF

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]

Product images:



Circular map for RG203909