

Product datasheet for RG208068

MRPL43 (NM_176792) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: MRPL43 (NM_176792) Human Tagged ORF Clone

Tag: TurboGFP Symbol: MRPL43

Synonyms: bMRP36a; L43mt; MRP-L43

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG208068 representing NM_176792

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGACGGCGCGGGACTCCGAGCCGCTTCTTGGCCAGCGTTCTCCACAACGGACTGGGTCGCTATGTGC
AGCAGCTGCAGCGTCTGAGCTTCAGCGTCAGCCGCGACGGCGCCCTCGTCTCGCGGCGCCAGGGAGTTCGT
GGAGCGGAGGTGATCGACTTCGCCCGACGGAATCCAGGGGTCGTAATATATGTAAACTCGCGTCCGTGC
TGCGTGCCCAGAGTAGTGGCCGAATACCTTAACGGGGCTGTGCGCGAGGAGAGCATCCACTGCAAGTCGG
TCGAGGAGATCTCGACGCTGGTGCAGAAGCTGGCCGACCAGTCGGGCTTGGACGTGATCCGCATCCGCAA
GCCCTTCCACACCGACAACCCTAGCATCCAGGGCCAGTGGCACCCCTTCACCAACAAGCCGACCACGTTC
CGCGGGCTACGCCCCGAGAGGTTCAGGATCCTGCCCCAGCCCAGGACACTGGCCTGAGACTGTCTGCAG
TTGCACCGCAGATCCTCCTGCCCGGCTGGCCCGACCCACCAGACCTCCCCCACAGTGGATCCTATCTCATC
CTCATTGACCTCTGCTCCAGCCCCTATGCTGTCCGCAGTTTCTTGCCTCCCGATTGTCCCTGCACTGACCT

ACTGTGTGCTCAGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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MRPL43 (NM_176792) Human Tagged ORF Clone - RG208068

Protein Sequence: >RG208068 representing NM_176792

Red=Cloning site Green=Tags(s)

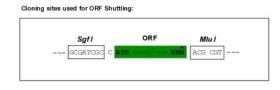
MTARGTPSRFLASVLHNGLGRYVQQLQRLSFSVSRDGASSRGAREFVEREVIDFARRNPGVVIYVNSRPC CVPRVVAEYLNGAVREESIHCKSVEEISTLVQKLADQSGLDVIRIRKPFHTDNPSIQGQWHPFTNKPTTF RGLRPREVQDPAPAQDTGLRLSAVAPQILLPGWPDPPDLPTVDPISSSLTSAPAPMLSAVSCLPIVPALT TVCSA

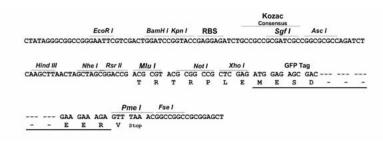
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





ACCN: NM_176792

ORF Size: 645 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 176792.3</u>

RefSeq Size: 2188 bp
RefSeq ORF: 648 bp
Locus ID: 84545

 UniProt ID:
 Q8N983

 Cytogenetics:
 10q24.31

Gene Summary: Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in

protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that

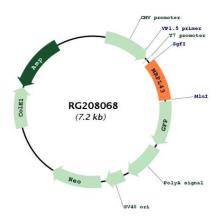
the latter contain a 5S rRNA. Among different species, the proteins comprising the

mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 39S subunit protein. This gene and the gene for a semaphorin class 4 protein (SEMA4G) overlap at map location 10q24.31 and are transcribed in opposite directions. Sequence analysis identified multiple transcript variants encoding at least four different protein isoforms. [provided by RefSeq, Jul

2008]



Product images:



Circular map for RG208068