

Product datasheet for RG204255

MRPL53 (NM 053050) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: MRPL53 (NM_053050) Human Tagged ORF Clone

Tag: TurboGFP Symbol: MRPL53

Synonyms: L53MT

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >RG204255 representing NM_053050

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

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCAGCTGCCTTGGCTCGGCTTGGTCTGCGGCCTGTCAAACAGGTTCGGGTTCAGTTCTGTCCCTTCG AGAAAAACGTGGAATCGACGAGGACCTTCCTGCAGACGGTGAGCAGTGAGAAGGTCCGCTCCACTAATCT CAACTGCTCAGTGATTGCGGACGTGAGGCATGACGGCTCCGAGCCCTGCGTGGACGTGCTGTTCGGAGAC GGGCATCGCCTGATTATGCGCGGCGCTCATCTCACCGCTCTGGAAATGCTCACCGCCTTCGCCTCCCACA

TCCGGGCCAGGGACGCGGCGGCAGCGGGGACAAGCCGGGCGCTGATACTGGTCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204255 representing NM_053050

Red=Cloning site Green=Tags(s)

MAAALARLGLRPVKQVRVQFCPFEKNVESTRTFLQTVSSEKVRSTNLNCSVIADVRHDGSEPCVDVLFGD

GHRLIMRGAHLTALEMLTAFASHIRARDAAGSGDKPGADTGR

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



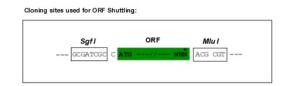
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

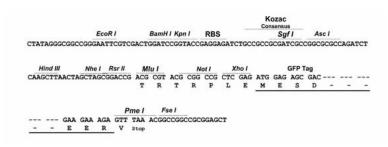
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





ACCN: NM_053050

ORF Size: 336 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: <u>NM 053050.5</u>

RefSeq Size: 632 bp RefSeq ORF: 339 bp



 Locus ID:
 116540

 UniProt ID:
 Q96EL3

 Cytogenetics:
 2p13.1

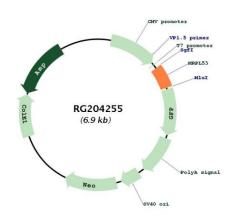
Gene Summary: Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in

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. A pseudogene corresponding to this gene is found on chromosome 1p. [provided by RefSeq, Jul

2008]

Product images:



Circular map for RG204255