

Product datasheet for RC204559

MRPL32 (NM 031903) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: MRPL32 (NM_031903) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: MRPL32

Synonyms: bMRP-59b; HSPC283; L32mt; MRP-L32

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC204559 ORF sequence

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCGCTGGCCATGCTGGTCTTGGTGGTTTCGCCGTGGTCTGCGGCCCGGGGAGTGCTTCGAAACTACT
GGGAGCGACTGCTACGGAAGCTTCCGCAGAGCCGGCCGGGCTTTCCCAGTCCTCCGTGGGAACCAGCATT
AGCAGTACAGGGCCCAGCCATGTTTACAGAGCCAGCAAATGATACCAGTGGAAGTAAAGAGAATTCCAGC
CTTTTGGACAGTATCTTTTGGATGGCAGCTCCCAAAAATAGACGCACCATTGAAGTTAACCGGTGTAGGA
GAAGAAATCCGCAGAAGCTTATTAAAGTTAAGAACAACATAGACGTTTGTCCTGAATGTGGTCACCTGAA
ACAGAAACATGTCCTTTGTGCCTACTGCTATGAAAAAGGTGTGCAAGGAGACTGCAGAAATCAGACGACAG
ATAGGGAAGCAAGAAGGGGGCCCTTTTAAGGCTCCCACCATAGAGACTGTGGTGCTGTACACAGGAGAGA
CACCTCTGAACAAGATCAGGGCAAGAGGATCATTGAACGAGACAGAAAGCGACCATCCTGGTTCACCCA

GAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAG**GTTTAA**

Protein Sequence: >RC204559 protein sequence

Red=Cloning site Green=Tags(s)

MALAMLVLVVSPWSAARGVLRNYWERLLRKLPQSRPGFPSPPWGPALAVQGPAMFTEPANDTSGSKENSS LLDSIFWMAAPKNRRTIEVNRCRRRNPQKLIKVKNNIDVCPECGHLKQKHVLCAYCYEKVCKETAEIRRQ

IGKQEGGPFKAPTIETVVLYTGETPSEQDQGKRIIERDRKRPSWFTQN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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

MRPL32 (NM_031903) Human Tagged ORF Clone - RC204559

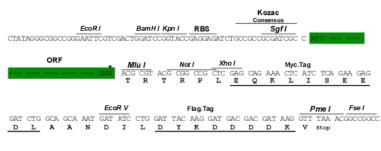
Chromatograms: https://cdn.origene.com/chromatograms/mk6720 g07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_031903

ORF Size: 564 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 031903.1, NP 114109.1</u>

RefSeq Size: 908 bp



RefSeq ORF: 567 bp Locus ID: 64983

 UniProt ID:
 Q9BYC8

 Cytogenetics:
 7p14.1

 MW:
 21.4 kDa

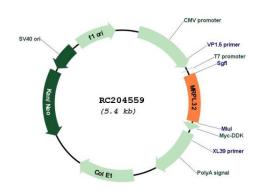
Gene Summary: Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in

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 that belongs to the L32 ribosomal protein family. A pseudogene corresponding to this gene is

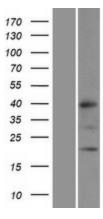
found on chromosome Xp. [provided by RefSeq, Jul 2008]

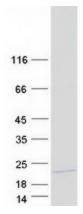
Product images:



Circular map for RC204559







Western blot validation of overexpression lysate (Cat# [LY410450]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204559 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified MRPL32 protein (Cat# [TP304559]). The protein was produced from HEK293T cells transfected with MRPL32 cDNA clone (Cat# RC204559) using MegaTran 2.0 (Cat# [TT210002]).