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Product datasheet for RC201448

MRPL38 (NM_032478) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL38 (NM_032478) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MRPL38
Synonyms:	HSPC262; L38MT; MRP-L3; MRP-L38; RPML3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC201448 representing NM_032478
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCAACAGTGACATCGACTTGAGCAACCTGGAGCGGCTGGAGAAGTACCGGAGCTTCGACCGCTACC
GGCGCCGAGCAGAGCAGGAGGCGCAGGCCCCGCACTGGTGGCGGACCTACCGAGAGTATTTCGGGGAGAA
GACAGATCCCAAAGAGAAGATTGATATTGGGCTGCCTCCACCCAAAGTCTCCCGGACCCAACAGCTACTG
GAACGGAAACAGGCCATCCAGGAGCTTCGGGCCAATGTGGAAGAGGAGCGGGCTGCCCGCCTCCGCACAG
CCAGTGTCCCGCTGGATGCCGTGCGGGCCGAGTGGGAGAGGACCTGTGGCCCCTACCACAAGCAGCGTCT
GGCTGAGTATTACGGCCTCTACCGAGACCTGTTCCACGGTGCCACCTTTGTGCCCCGAGTCCCCCTGCAC
GTGGCCTACGCTGTGGGTGAGGATGACCTGATGCCTGTGTACTGTGGCAATGAGGTGACTCCAACCGAGG
CTGCCCAAGCGCCAGAGGTGACCTATGAGGCAGAAGAGGGCTCCTTGTGGACGTTGCTACTCACTAGCTT
GGATGGGCACCTGCTGGAGCCAGATGCTGAGTACCTCCACTGGCTGCTAACCAACATCCCGGGTAACCGG
GTGGCTGAAGGACAGGTGACGTGTCCCTACCTCCCCCCCTTCCCTGCCCGAGGCTCCGGCATCCACCGTC
TTGCCTTCCTGCTCTTCAAGCAGGACCAGCCGATTGACTTCTCTGAGGACGCACGCCCCTCACCCTGCTA
TCAGCTGGCCCAGCGGACCTTCCGCACTTTTGATTTCTACAAGAAACACCAAGAAACCATGACTCCAGCC
GGCTTGTCCTTCTTCCAGTGCCGCTGGGATGACTCCGTCACCTACATCTTCCACCAGCTTCTGGACATGC
GGGAGCCGGTGTTTGAGTTCGTGCGGCCGCCCCCTTACCACCCCAAGCAGAAGCGCTTCCCCCACCGGCA
GCCCCTGCGCTACCTGGACCGGTACAGGGACAGTCATGAGCCCACCTATGGCATCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

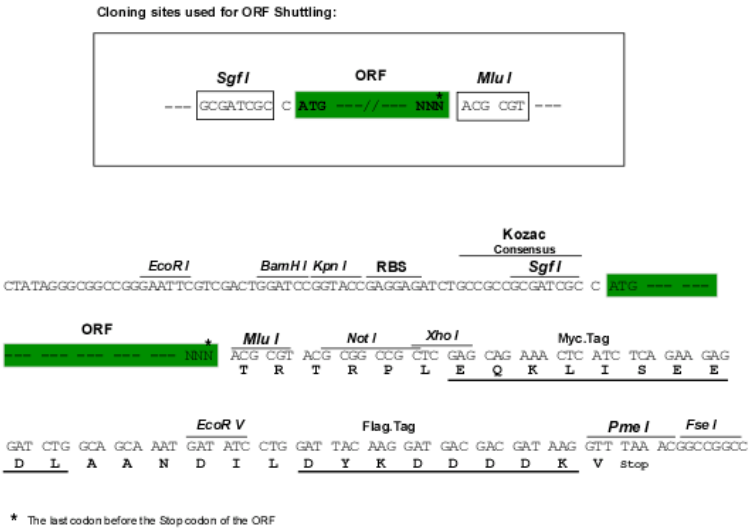
>RC201448 representing NM_032478
Red=Cloning site Green=Tags(s)

MPNSDIDLSNLERLEKYRSFDRYRRRAEQEAQAPHWWRTYREYFGEKTDPKEKIDIGLPPPKVSRTQQLL
ERKQAIQELRANVEEERAARLRTASVPLDAVRAEWERTCGPYHKQRLAEYYGLYRDLFHGATFVPRVPLH
VAYAVGEDDLMPVYCGNEVTPTEAAQAPEVTYEAEEGSLWTLLLTSLDGHLLEPDAEYLHWLLTNIPGNR
VAEGQVTCPYLPPFPARGSGIHRLAFLLFKQDQPIDFSEDARPSPCYQLAQRTFRTFDFYKKHQETMTPA
GLSFFQCRWDDSVTYIFHQLLDMREPVFEFVRPPPYHPKQKRFPHRQPLRYLDRYRDSHEPTYGIY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032478

ORF Size: 1038 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_032478.1

RefSeq Size: 1907 bp

RefSeq ORF: 1143 bp

Locus ID: 64978

UniProt ID: Q96DV4

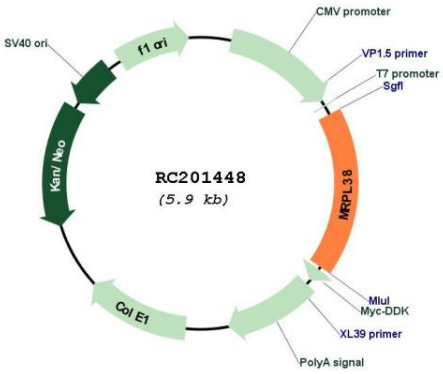
Cytogenetics: 17q25.1

Domains: PBP

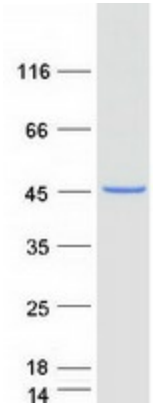
MW: 44.4 kDa

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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC201448



Coomassie blue staining of purified MRPL38 protein (Cat# [TP301448]). The protein was produced from HEK293T cells transfected with MRPL38 cDNA clone (Cat# RC201448) using MegaTran 2.0 (Cat# [TT210002]).