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Product datasheet for RC205836

MRPL2 (NM_015950) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL2 (NM_015950) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MRPL2
Synonyms:	CGI-22; MRP-L14; RPML14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC205836 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCTGTGCGCACTGACCCGCGCTCTGCGCTCTCTGAACCTGGCGCCCCCGACCGTCGCCGCCCCTG
CCCCGAGTCTGTTCCCCGCCGCCCAGATGATGAACAATGGCCTCCTCCAACAGCCCTCTGCCTTGATGTT
GCTCCCCTGCCGCCCAGTTCTTACTTCTGTGGCCCTTAATGCCAACTTTGTGTCCTGGAAGAGTCGTACC
AAGTACACCATTACACCAGTGAAGATGAGGAAGTCTGGGGGCCGAGACCACACAGGCCGAATCCGGGTGC
ATGGTATTGGCGGGGGCCACAAGCAACGTTATCGAATGATTGACTTTCTGCGTTTCCGGCCTGAGGAGAC
CAAGTCAGGACCCTTTGAGGAGAAGGTTATCCAAGTCCGCTATGATCCCTGTAGGTCAGCAGACATAGCT
CTGGTTGCTGGGGGCAGCCGGAAACGCTGGATCATCGCCACAGAAAACATGCAGGCTGGAGATACAATCT
TGAACTCTAACCACATAGGCCGAATGGCAGTTGCTGCTCGGGAAGGGGATGCGCATCCTCTTGGGGCTCT
GCCTGTGGGGACCCTCATCAACAACGTGGAAAGTGAGCCAGGCCGGGGTGCCCAATATATCCGAGCTGCA
GGGACGTGTGGTGTGCTACTGCGGAAGGTGAATGGCACAGCCATTATCCAGCTGCCCTCTAAGAGGCAGA
TGCAGGTGCTGGAAACGTGCGTAGCAACAGTAGGCCGAGTATCCAACGTTGATCATAACAAACGGGTCAT
TGGCAAGGCAGGTCGCAACCGCTGGCTGGGCAAGAGGCCTAACAGTGGGCGGTGGCACCGCAAGGGGGGC
TGGGCTGGCCGAAAGATTCGGCCACTACCCCCCATGAAGAGTTACGTGAAGCTGCCTTCTGCTTCTGCCC
AAAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC205836 protein sequence
Red=Cloning site Green=Tags(s)

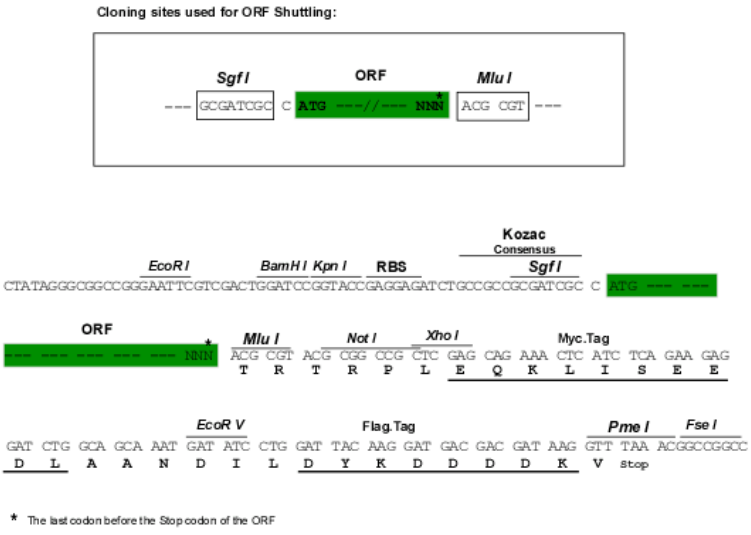
MALCALTRALRSLNLAPPTVAAPAPSLFPAAQMMNNGLLQQPSALMLLPCRPVLTSVALNANFVSWKSRT
KYTITPVKMRKSGGRDHTGRIRVHGIGGGHKQRYRMIDFLRFRPEETKSGPFEEKVIQVRYDPCRSADIA
LVAGGSRKRWIIATENMQAGDTILNSNHIGRMAVAAREGDAHPLGALPVGTLINNVESEPGRGAQYIRAA
GTCGVLLRKVNGTAIIQLPSKRQMQVLETCVATVGRVSNVDHNKRVIGKAGRNRWLGKRPNSGRWHRKGG
WAGRKIRPLPPMKSYVKLPSASAQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6420_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015950

ORF Size: 915 bp

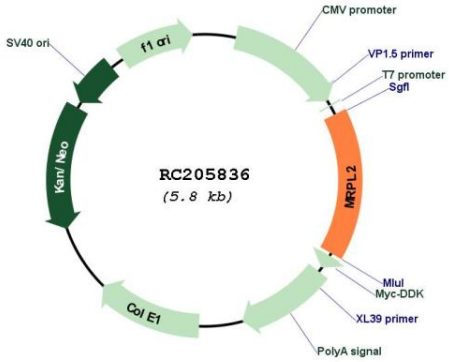
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

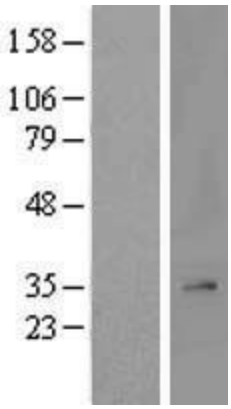
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	NM_015950.5
RefSeq Size:	1333 bp
RefSeq ORF:	918 bp
Locus ID:	51069
UniProt ID:	Q5T653
Cytogenetics:	6p21.1
MW:	33.3 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 EcoL2 ribosomal protein family. A pseudogene corresponding to this gene is found on chromosome 12q. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2014]

Product images:



Circular map for RC205836



Western blot validation of overexpression lysate (Cat# [LY414303]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205836 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).