OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC210457

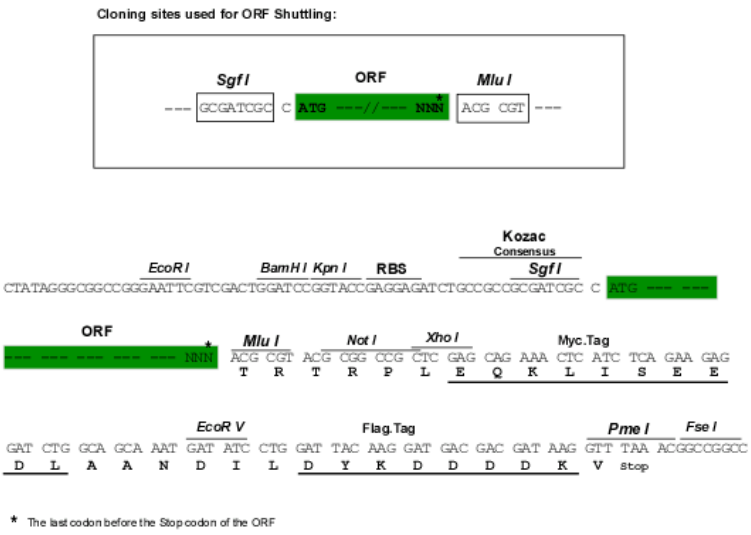
MRPL36 (NM_032479) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL36 (NM_032479) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MRPL36
Synonyms:	BRIP1; L36mt; MRP-L36; PRPL36; RPMJ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210457 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCAAATCTTTTTATAAGGAAAATGGTGAACCCTCTGCTCTATCTCAGTCGTCACACGGTGAAGCCTC GAGCCCTCTCCACATTTCTATTTGGATCCATTCGAGGTGCAGCCCCCGTGGCTGTGGAACCCGGGGCAGC AGTGCGCTCACTTCTCTCACCCGGCCTCCTGCCCCATCTGCTGCCTGCGCTGGGGTTCAAAAACAAGACT GTCCTTAAGAAGCGCTGCAAGGACTGTTACCTGGTGAAGAGGCGGGGTCGGTGGTACGTCTACTGTAAAA CCCATCCGAGGCACAAGCAGAGACAGATG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC210457 protein sequence Red=Cloning site Green=Tags(s) MANLFIRKMVNPLLYLSRHTVKPRALSTFLFGSIRGAAPVAVEPGAAVRSLLSPGLLPHLLPALGFKNKT VLKKRCKDCYLVKRRGRWYVYCKTHPRHKQRQM TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6555_g01.zip
Restriction Sites:	SgfI-MluI

View online »

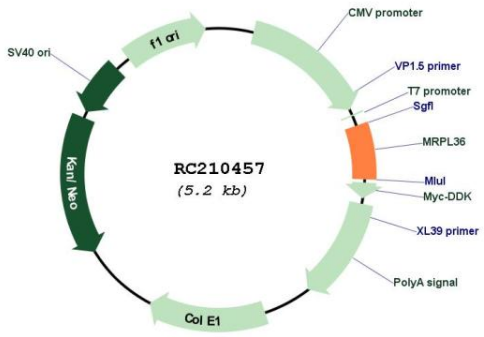
Cloning Scheme:



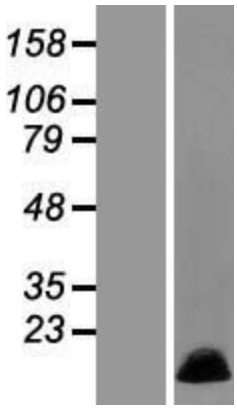
ACCN:	NM_032479
ORF Size:	309 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_032479.4
RefSeq Size:	626 bp
RefSeq ORF:	312 bp

Locus ID:	64979
UniProt ID:	Q9P0J6
Cytogenetics:	5p15.33
Domains:	Ribosomal_L36
MW:	11.8 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. A pseudogene corresponding to this gene is found on chromosome 2p. [provided by RefSeq, Jul 2008]

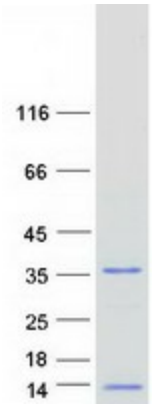
Product images:



Circular map for RC210457



Western blot validation of overexpression lysate (Cat# [LY410108]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210457 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MRPL36 protein (Cat# [TP310457]). The protein was produced from HEK293T cells transfected with MRPL36 cDNA clone (Cat# RC210457) using MegaTran 2.0 (Cat# [TT210002]).