

Product datasheet for **RC208899**

MRPS9 (NM_182640) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS9 (NM_182640) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MRPS9
Synonyms:	MRP-S9; RPMS9; S9mt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208899 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCGGCGCCCTGTGTCTCTACGGCGGAGCAGTTTCGTACCGGCTTCTCTCTGGGGTAGGGGTAGCC
TCGCCCCGAAGCAAGGCCTCTGGAACCGCGGCCCTGAGTTGCAAACAAATGTCAGATCCCAGATATT
AAGGCTAAGACATACTGCATTTGTAATACCAAAGAAAAACGTTCTACCTCAAACGTGAACTTACACA
GAGGATTTTATAAAAAGCAGATTGAAGAGTTCAACATAGGAAAGAGACATTTAGCCAACATGATGGGAG
AAGATCCAGAACTTTCACTCAAGAAGATATTGACAGAGCTATTGCTTACCTTTCCCAAGTGGTTTGT
TGAGAAACGAGCCAGGCCAGTAATGAAGCATCCTGAACAGATTTTCCAAGACAAAGAGCAATCCAGTGG
GGAGAAGATGGCGTCCATTTCACTATCTTCTATACTGGCAAACAGTCATACTATTCTTAATGCATG
ATGTATATGGAATGTTACTCAATTTAGAAAAACATCAAAGTCACTTGCAAGCCAAAAGTCTGCTCCAGA
AAAACTGTAACCAGAGACGTGATTGGCAGCAGATGGCTGATTAAGGAGGAAGTAGAAGAAATGTTAGTG
GAAAACTGTCAGATCTAGATTATGCAGTTCATTCGGCTGCTAGAAAAGTTATTGACATCGCAGTGTG
GTGCTGCTGAGGAAGAATTTGTGCAGAGGTTTCGAAGAAGTGAACCTTGAATCAAAAAACAGCTGAT
TGAACCTGTACAGTATGATGAGCAAGGAATGGCCTTTAGCAAAAGTGAAGGTAAGAAAGAGCTGCAAAA
GCAGAAGCAATTGTTTATAAACATGGAAGTGAAGAATAAAAGTAAATGGAATTGATTACCAGCTTTACT
TCCCGATCACACAGGACAGAGAACAGCTGATGTTCCCTTTCCACTTTGTTGACCGGCTGGGAAAGCACGA
CGTGACCTGCACAGTCTCAGGGGCGGGAGGTCAGCGCAGGCTGGAGCAATACGACTGGCAATGGCAAAA
GCCTTGTGCAGCTTTGTACCGAGGACGAGGTCGAGTGGATGAGACAAGCTGGACTACTTACTACTGATC
CACGTGTGAGGGAACGGAAGAAGCCAGGCCAAGAGGGAGCCCGCAGAAAGTTTACGTGGAAGAAACGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208899 protein sequence
 Red=Cloning site Green=Tags(s)

MAAPCVSYGGAVSYRLLWGRGSLARKQGLWKTAAPELQTNVRSQILRLRHTAFVIPKKNVPTSKRETYT
 EDFIKQIEEFNIGKRHLANMMGEDPETFTQEDIDRAIAYLFPSGLFEKRARPVMKHPEQIFPRQRAIQW
 GEDGRPFHYLFYTGKQSYSLMHDVYGMLLNLEKHQSHLQAKSLLPEKTVTRDVIGSRWLKEELEEMLV
 EKLSDLDMQFIRLLEKLLTSQCGAAEEEFVQRFRRSVTLESKKQLIEPVQYDEQGMASFSEKGRKTAK
 AEAIVYKHGSGRIKVNIGIDYQLYFPITQDREQLMFPFHFVDRLGKHDTVCTVSGGGRSAQAGAIRLAMAK
 ALCSFVTEDEVEMRQAGLLTTDPRVRERKKPGQEGARRKFTWKKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6781_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182640

ORF Size: 1188 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_182640.3](#)

RefSeq Size: 1473 bp

RefSeq ORF: 1191 bp

Locus ID: 64965

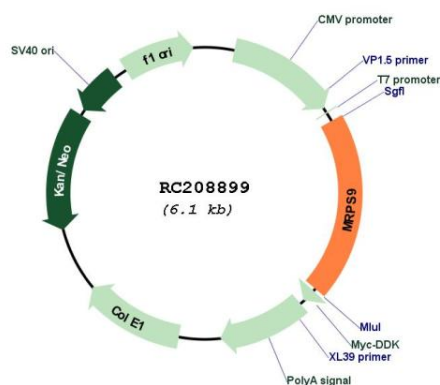
UniProt ID: [P82933](#)

Cytogenetics: 2q12.1

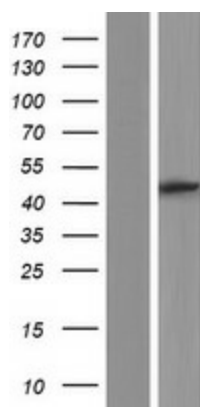
MW: 45.8 kDa

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 28S subunit protein. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC208899



Western blot validation of overexpression lysate (Cat# [LY405409]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208899 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).