

Product datasheet for **RC200834**

MRPS34 (NM_023936) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS34 (NM_023936) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MRPS34
Synonyms:	COXPD32; MRP-S12; MRP-S34; MRPS12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200834 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGGAAGAAGGTGCGTCCGCGGCTGATCGCGGAGCTGGCCCGCGCTGCGCGCCCTGCGGGAGC
AACTGAACAGGCCGCGGACTCCAGCTCTACGCGGTGGACTACGAGACCTTGACGCGGCCGTTCTCTGG
ACGCCGGTCCCGTCCGGCCCTGGGCCGACGTGCGCCGCGAGAGCCGCTCTTGACGCTGCTCGGCCG
CTCCCGCTCTTCGGCCTGGGCCGCTGGTCACGCGCAAGTCTGGCTGTGGCAGCAGCAGACGACCGGTGCT
ACTGGCGCCTCACGCGGTGCGGCCGACTACACGGCGCAGAACTGGACCACGGAAGGCCTGGGGCAT
CCTGACCTCAAAGGGAAGACTGAGAGCGAGGCGCGGAGATCGAACACGTCATGTACCATGACTGGCGG
CTGGTGCCCAAGCACGAGGAGGAGGCTTACC CGGTTACGCGCGCGCCGGAAGACAGCCTGGCCTCCG
TGCCGTACCCGCTCTCCTCCGGCCATGATTATCGCAGAACGACAGAAAAATGGAGACACAAGCACCGA
GGAGCCCATGCTGAATGTGCAGAGGATACGCATGGAACCTGGGATTACCCTGCAAAACAGGAAGACAAA
GGAAGGGCCAAGGGCACCCCGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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_023936.2](#)

RefSeq Size: 1020 bp

RefSeq ORF: 657 bp

Locus ID: 65993

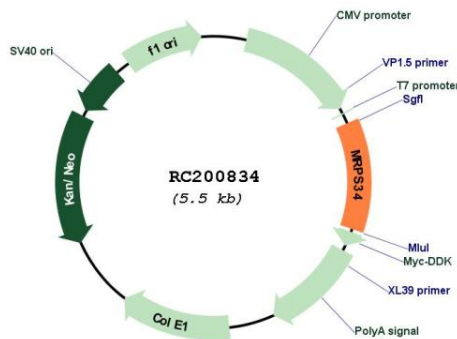
UniProt ID: [P82930](#)

Cytogenetics: 16p13.3

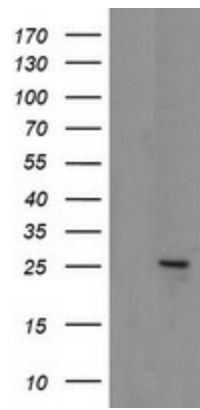
MW: 25.7 kDa

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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

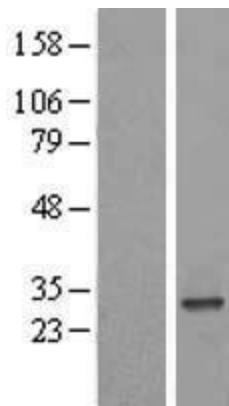
Product images:



Circular map for RC200834



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MRPS34 (Cat# RC200834, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MRPS34 (Cat# [TA505229]). Positive lysates [LY411441] (100ug) and [LC411441] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY411441]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200834 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MRPS34 protein (Cat# [TP300834]). The protein was produced from HEK293T cells transfected with MRPS34 cDNA clone (Cat# RC200834) using MegaTran 2.0 (Cat# [TT210002]).