

Product datasheet for RC202166

MRPL40 (NM_003776) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MRPL40 (NM_003776) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: MRPL40
Synonyms: L40mt; MRP-L22; MRP-L40; MRPL22; NLVCF; URIM
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC202166 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACGGCCTCCGTGCTGCGAAGTATCTCGCTAGCCCTGCGCCGACTAGCGGGCTTCTGGGAAGTGGC
 AGACGCAGCTTAGAGAGACTCACCAGCGAGCGTCATTGTTGTCTTTCTGGGAAGTATTCCCATGAGATC
 AGAACCTCTCGAAAAAGAAGAAGGTAGATCCTAAAAAGACCAAGAAGCAAAGGAGCGCTTGAAAAGG
 AAGATCCGAAAAGTGGAAAAGGCTACTCAAGAGCTAATTCCTATTGAAGATTTTATTACCCCTCTAAAGT
 TCTTGGATAAAGCAAGAGAGCGGCTCAGGTGGAGCTCACCTTTGAGGAGACTGAGAGGAGAGCTCTGCT
 TCTGAAGAAGTGGTCTTGTACAAGCAGCAAGAGCGTAAGATGGAGAGGGACACCATCAGGGCTATGCTA
 GAAGCCCAGCAGGAAGCTCTGGAGGAAGTGAAGTCCCGAAGCTCCATGCTGAGGCCATCAAGC
 GGGATCCTAACCTGTTCCCTTTGAGAAGGAAGGGCCACATTACACACCACCGATCCCTAACTACCAACC
 CCTGAAGGCAGGTACAATGACATCACCAAGGTGTACACACAAGTGGAGTTTAAGAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202166 protein sequence
 Red=Cloning site Green=Tags(s)

MTASVLRISLALRPTSGLLGTWQTLRETHQRASLLSFWELIPMRSEPLRKKKVVDPKKDQEKERLKR
 KIRKLEKATQELPIEDFITPLKFLDKARERPVQLTFEETERRALLLKKWSLYKQKERKMERDTRAML
 EAQQEALEELQLESPKLHAEAIKRDPNLFPFEKEGPHYTPPIPNYQPPEGRYNDITKVYTVQVEFKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



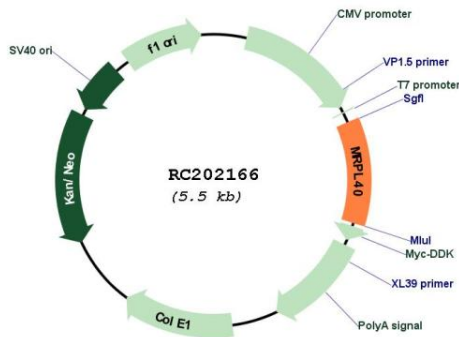
UniProt ID: [Q9NQ50](#)

Cytogenetics: 22q11.21

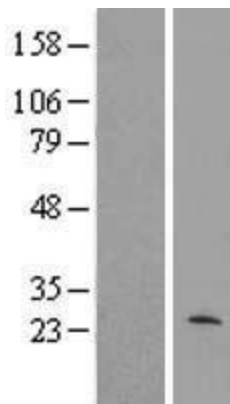
MW: 24.5 kDa

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. Deletions in this gene may contribute to the etiology of velo-cardio-facial syndrome and DiGeorge syndrome. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC202166



Western blot validation of overexpression lysate (Cat# [LY418439]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202166 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).