

Product datasheet for RC203424

MRPS22 (NM_020191) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS22 (NM_020191) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MRPS22
Synonyms:	C3orf5; COXPD5; GIBT; GK002; MRP-S22; ODG7; RPMS22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203424 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCCCTCGGAACAACTGTATTGCTGTGGAGCCTTTGAGGAGTTCTCCGGCGTGGAACGGGTCT
GTTTCCGGGCTCGAATCCAGCCCTGGCACGGTGGCTGCTCAACCGCTACCTTGCTTTTCGAGATGGG
GCTGCCACGCCCGGTTCAAGCATACTCACGAAATGACAGGCTTGAAGTGCAGAAGACTTTAAGCCAG
CTATAACAAGAACTGAAGCCACCAACCTATAAGCTAATGACTCAGGCACAGTTGGAAGAGGCTACAAGACA
GGCAGTTGAGGCAGCTAAAGTACGATTAATAATGCCACCAGTTCTGGAAGAGCGAGTACCAATAAATGAT
GTGTTAGCTGAAGATAAGATTTTGAAGGAACAGAAACAACCAAAATATGTGTTTACTGATATATCATATA
GCATACCACACCGGGAGCGTTTTATTGTCGTGAGAGAACCAAGTGGCACACTACGCAAAGCCTCTTGGGA
AGAACGGGACCGAATGATACAAGTTTATTTCCAAAAGAAGTTCGTAATAATTTGACACCAATAATTTTC
AAGGAAGAAAATCTTAGGACTATGTATAGCCAGGACAGGCATGTTGATGTCCTCAATCTCTGCTTTGCC
AGTTTGAAGCAGATTCCACAGAGTATATCAAGTTCATACAAGACCTATGAAGATATAGATAAAGCTGG
AAAATATGACCTTTTACGTTCAACAAGATACTTTGGTGGAAATGGTGTGGTATTTTGTAAATAAAAAAG
ATTGATGGTTTGGCTGATTGACCAGATTGAGAGATTTAATCGATGATGCAACCAACTTGGTCCAGCTGT
ATCACGTGCTCCATCCAGATGGCCAGTCCGCTCAAGGGCCAAGGATCAGGCTGCTGAGGGAATAAATTT
AATCAAGTCTTTGCAAAAACAGAAACAGACAGAAGGGAGCCTATATAGAATAACTGCAGACTTATCAA
GAAGCACTCAGTCGCATTCTGCAGCTTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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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_020191.4](#)

RefSeq Size: 1155 bp

RefSeq ORF: 1083 bp

Locus ID: 56945

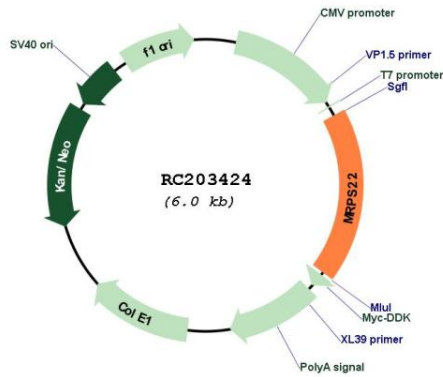
UniProt ID: [P82650](#)

Cytogenetics: 3q23

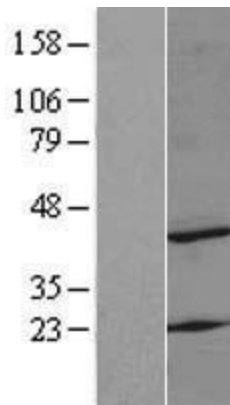
MW: 41.3 kDa

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 28S subunit protein that does not seem to have a counterpart in prokaryotic and fungal-mitochondrial ribosomes. This gene lies telomeric of and is transcribed in the opposite direction from the forkhead box L2 gene. A pseudogene corresponding to this gene is found on chromosome Xq. [provided by RefSeq, Jul 2008]

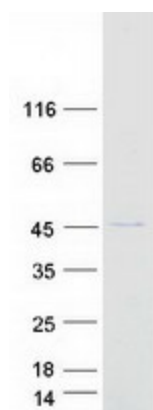
Product images:



Circular map for RC203424



Western blot validation of overexpression lysate (Cat# [LY412613]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203424 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MRPS22 protein (Cat# [TP303424]). The protein was produced from HEK293T cells transfected with MRPS22 cDNA clone (Cat# RC203424) using MegaTran 2.0 (Cat# [TT210002]).