

Product datasheet for RC202795

MRPS18B (NM_014046) Human Tagged ORF Clone

TCTG

ACAAGGATGACGACGATAAGGTTTAA

Product data:

OriGene Technologies, Inc.

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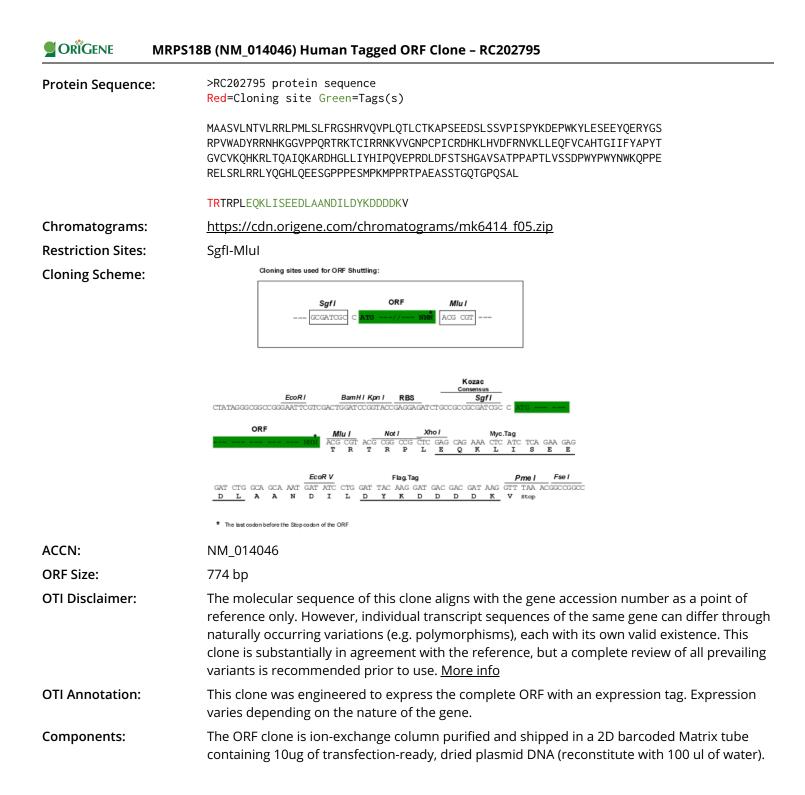
Product Type:	Expression Plasmids
Product Name:	MRPS18B (NM_014046) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MRPS18B
Synonyms:	C6orf14; HSPC183; HumanS18a; MRP-S18-2; MRPS18-2; PTD017; S18amt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC202795 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCGGCGTCTGTATTAAACACCGTGCTGAGGCGGCTTCCTATGCTATCTCTCTC

CGCCCCGTCTGGGCTGACTACCGCCGCAACCACAAGGGTGGTGTACCCCCACAGCGGACTCGGAAGACAT GTATTCGTCGGAATAAAGTTGTTGGGAATCCCTGCCCATCTGTCGAGATCACAAGTTGCATGTTGACTT TAGGAACGTGAAGCTCTTGGAGCAATTTGTCTGCGCCCACACGGGTATCATCTTCTATGCTCCATACACA GGAGTCTGTGTGAAGCAGCACAAGCGGTTGACCCAGGCCATCCAGAAAGCCAGGGATCATGGTCTCCTCA TTTACCACATCCCCCAGGTTGAACCACGGGACCTTGACTTCAGTACCTCTCATGGGGCTGTGAGTGCTAC TCCGCCAGCCCCCACCCTGGTCTCAAGTGACCCCTGGTACCCATGGTACAACTGGAAACAGCCACCGGAG AGAGAACTGTCTCGCCTTCGCCGGCTTTACCAGGGCTATCTCCCAAGAAGAGAGTGGCCCCCCACCTGAGT CCACCCCAAGATGCCCCTAGAACACCAGCGGAAGCCTCCCCCACTGGGCAGACAGGCCCCCCACCTGAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

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Service MRPS18B (NM_014046) Human Tagged ORF Clone – RC202795

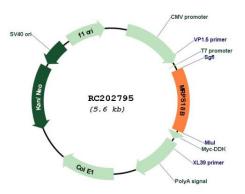
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 014046.4</u>
RefSeq Size:	1536 bp
RefSeq ORF:	777 bp
Locus ID:	28973
UniProt ID:	<u>Q9Y676</u>
Cytogenetics:	6p21.33
Domains:	Ribosomal_S18
MW:	29.4 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

chromosomes 1q and 2q. [provided by RefSeq, Jul 2008]

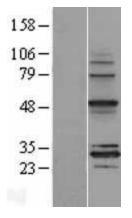
mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 28S subunit protein that belongs to the ribosomal protein S18P family. The encoded protein is one of three that has significant sequence similarity to bacterial S18 proteins. The primary sequences of the three human mitochondrial S18 proteins are no more closely related to each other than they are to the prokaryotic S18 proteins. Pseudogenes corresponding to this gene are found on

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Product images:



Circular map for RC202795



Western blot validation of overexpression lysate (Cat# [LY415507]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202795 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified MRPS18B protein (Cat# [TP302795]). The protein was produced from HEK293T cells transfected with MRPS18B cDNA clone (Cat# RC202795) using MegaTran 2.0 (Cat# [TT210002]).

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