

Product datasheet for **SC113696**

MRPS18A (NM_018135) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS18A (NM_018135) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPS18A
Synonyms:	HumanS18b; MRP-S18-3; MRP-S18-a; MRPS18-3; S18bmt; S18mt-a
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113696 sequence for NM_018135 edited (data generated by NextGen Sequencing) ATGGCGGCCCTCAAGGCTCTGGTGTCCGGCTGTGGGCGGCTTCTCCGTGGGCTACTAGCG GGCCCGGCAGCGACCGAGCTGGTCTCGGCTTCCAGCTCGCGGTTTCAGGGAAGTGGTGGAG ACCCAAGAAGGGAAGACAATAATTGAAGGCCGTATCACAGCGACTCCCAAGGAGAGT CCAAATCCTCCTAACCCCTCTGGCCAGTGCCCATCTGCCGTTGGAACCTGAAGCACAAG TATAACTATGACGATGTTCTGCTGCTTAGCCAGTTCATCCGGCCTCATGGAGGCATGCTG CCCCGAAAGATCACAGGCCTATGCCAGGAAGAACACCGCAAGATCGAGGAGTGTGTGAAG ATGGCCCAACGAGCAGGTCTATTACCAAATCACAGGCCTCGGCTTCTGAAGGAGTTGTT CCGAAGAGCAAACCCCACTCAACCGGTACCTGACGCGCTGGGCTCCTGGCTCCGTCAG CCCATCTACAAAAAAGGCCCGCTGGAACAGGGTGCGCATGCCGTGGGGTCACCCCTT CTGAGGGACAATGTCTGCTACTCAAGAACACCTTGAAGCTGTATCACTGA Clone variation with respect to NM_018135.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018135 unedited
AATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGAAGAGGCGGCCCTCAAGGCTC
TGGTGTCCGGCTGTGGGCGGCTTCTCCGTGGGCTACTAGCGGGCCCGGCAGCGACCAGCT
GGTCTCGGCTTCCAGCTCGCGGGTTTCAGGGAAGTGGTGGAGACCAAGAAGGGAAGACAA
CTATAATTGAAGGCCGTATCACAGCGACTCCCAAGGAGAGTCCAAATCCTCCTAACCCCT
CTGGCCAGTGCCCATCTGCCGTTGGAACCTGAAGCACAAGTATAACTATGACGATGTTT
TGCTGCTTAGCCAGTTTCATCCGGCCTCATGGAGGCATGCTGCCCCGAAAGATCACAGGCC
TATGCCAGGAAGAACACCGCAAGATCGAGGAGTGTGTGAAGATGGCCACCGAGCAGGTC
TATTACCAAAATCACAGGCCTCGGCTTCTGAAGGAGTTGTTCCGAAGAGCAAACCCCAAC
TCAACCGGTACCTGACGCGCTGGGCTCCTGGCTCCGTCAAGCCCATCTACAAAAAGGCC
CCCCTGGAACAGGGTGCATGCCGTTGGGTCACCCCTTCTGAGGGACANTGTCTGCT
ACTCAAGAACACCTTGAAGCTGTATCACTGACAGAGAGCAGTGTTCAGAGTTCCTTC
TGCACCTGTGCTGGGAGTANGAGGCCACTCANCAGCCCTTTGGCCACACTATACTCCT
GTCCACCCACACGATGGCCTGGTCCCTCCACATGCATGGACAGNGACAGTGGGACTA
ACTTCAGTACCCTTGGCTGCACAGTANNCATGCTGGGAGCTANAGGCANGCAGGNCANN
TGGNGTCCCTTNGCCAGCTGCTATGGGGCTTANGCCATGCTCAGTGCTGGGGACAAGGAN
TTTTGCCCNACGAGTGTCTATAAAGTGGGTCTATGGGNTACCCATNGGNTGTGCCTAC
TGCTNGGAAGTGCGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018135 unedited
GGTTGAAAGGCGCCGTANATGATTATCGAGTAGCCNNNNNNNNNNANANNAATTTTTTT
TTATATTTTTTTTTTTTTATCTGTTTTTGTGTTTTTTTTCTTTTTTGAAGATGGGA
CCTGTTTGGCCCATGAATTCAATTGACTCATTGGCCCCATCAAAAAAACATGACTCAA
TGGTTAACACCAACTGGGAATTTTCCAAACCCCTGGACTTTCCAAGGGGGAGGGC
CCCCCAATGGGTAAACCCCTAAACCCCGTTTTTACCCTGGGGTGGGGAATAATCCTTT
CCCCAGCACTGAAATGGGCTAAACCCCAAAAAGCTGGGAAGGGAACCAATGGCCTGG
CCGGCTTTAACTCCCAACATTGTTTCTTGGCCGGCCAAGGTCCTGAAATTAATCCACT
GTCCCCTGTTTCATGCCTGTTTGAAGGACACACCTTTTGGTGGGGGGGACAGGAGTAT
ATTTTTGACCAAGGCTTTGTAGTGGGCCCCCTCTCCCACAAGGTGCCGGAATAAC
CTTGAAACCTGCTTTTTGTTTCGAAATACAAATTCCAAGGTTTTTTAGAAGAGAAATTT
TTCCTTAAAAAGGGGAACCTACGGGATTTCCCCCTTTTCTAAGGGGGGCTTTTTTT
TAAAGTGGTTTTATGGAACCAAAACCCATAGCACAAAGAACTGGTGGGTGTGGTTTTAT
TCTTACAACACCTTTCAAAAACCCCGTCTGATTTGTGAAAAATAAACTGGATGGGG
GGCAATTTCAACACACCGTGATATTTATGGGTCTCTCGTGAAGCCTGAGATCTTTTT
GGAAGAACTTCATGTAGCACGGTAAACGGTTTACTCTCAACACGCCTTATGTAAATTG
CGCTCGGGCACCAGTGAGAAGGGCGCAT

Restriction Sites:

NotI-NotI

ACCN:

NM_018135

Insert Size:

1080 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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.

RefSeq: [NM_018135.2](#), [NP_060605.1](#)

RefSeq Size: 1060 bp

RefSeq ORF: 591 bp

Locus ID: 55168

UniProt ID: [Q9NVS2](#)

Cytogenetics: 6p21.1

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 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. A pseudogene corresponding to this gene is found on chromosome 3p. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jul 2010]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer protein (isoform 1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.