

Product datasheet for **SC115191**

MRPS18B (NM_014046) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS18B (NM_014046) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPS18B
Synonyms:	C6orf14; HSPC183; HumanS18a; MRP-S18-2; MRPS18-2; PTD017; S18amt
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115191 sequence for NM_014046 edited (data generated by NextGen Sequencing) ATGGCGGCGTCTGTATTAAACACCGTGCTGAGGCGGCTTCTATGCTATCTCTCTCCGA GGTTCTCACAGAGTTCAGGTTCCCTCCAGACTCTTTCACCAAAGCTCCCTCTGAGGAA GATTCTTTGTCCTCAGTTCCTTTCTCCTTATAAGGATGAGCCCTGGAAATATCTGGAA TCAGAAGAATACCAGGAGCGATATGTTCTCGCCCCGTCTGGGCTGACTACCGCCGCAAC CACAAAGGGTGGTGTACCCACACGCGACTCGGAAGACATGTATTCGTCGGAATAAAGTT GTTGGGAATCCCTGCCCCATCTGTCGAGATCACAAAGTTGCATGTTGACTTTAGGAACGTG AAGCTCTTGGAGCAATTTGTCTGCGCCACACGGGTATCATCTTCTATGCTCCATACACA GGAGTCTGTGTGAAGCAGCACAAAGCGTTGACCCAGGCCATCCAGAAAGCCAGGGATCAT GGTCTCCTCATTTACCACATCCCCAGGTTGAACACGGGACCTTGACTTCAGTACCTCT CATGGGGCTGTGAGTGCTACTCCGCCAGCCCCACCCTGGTCTCAGGTGACCCCTGGTAC CCATGGTACAACCTGGAACAGCCACCGGAGAGAGAACTGTCTCGCCTTCGCCGGCTTTAC CAGGGTCATCTCCAAGAAGAGAGTGGCCCCCACCTGAGTCAATGCCAAGATGCCCCCT AGAACACCAGCGGAAGCCTCCTCCACTGGGCAGACAGGCCCTCAGAGTGCTCTGTAG Clone variation with respect to NM_014046.3



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014046 unedited GTAATACGACTCACTATAGGGCGGCNCGGATTCCGGCACGAGGGTCAAGATGGCGGCGTC TGTATTAAACACCGTGCTGAGGCGGCTTCTATGCTATCTCTCTCCGAGGTTCTCACAG AGTTTCAGGTTCCCTCCAGACTCTTTCACCAAAGCTCCCTCTGAGGAAGATTCTTTGTC CTCAGTTCCTATTTCTCCTTATAAGGATGAGCCCTGGAATATCTGGAATCAGAAGAATA CCAGGAGCGATATGGNTCTCGCCCGNCTGGGCTGACTACCGCCGNNCCNNGGGGGG NGNNCCCCNCGCGNCTCGGAAGACATGTATTCGTCGGAATAAAGTTGTTGGGAATCC CTGCCCCATCTGTGAGATCACAAAGTTGCATGTTGACTTTAGGAACGTGAAGCTCTTGA GCAATTTGTCTGCGCCACACGGGTATCATCTTCTATGCTCCATACACAGGAGTCTGTGT GAAGCAGCACAAGCGTTGACCCAGGCCATCCAGAAAGCCAGGGATCATGGTCTCCTCAT TTACCACATCCCCAGGTTGAACCACGGGACCTTGACTTCAGTACCTCTCATGGGCTGT GAGTGCTACTCGCCAGCCCCACCTGGTCTCAGGTGACCCCTGGTACCCATGGTACAA CTGGAACAGCCACGGAGAGAGAACTGTCTCGCCTTCGCCGGCTTTACCAGGGTCATCT CCAAGAAGAGAGTGGCCCCACCTGAGTCAATGCCAAGATGCCCCCTAGAACACCAGC GGNAGCCTCCTCCTGGGCAGACAGGCCCTCAGAGTGCTCTGTNAGAGCTGTAACTGGG AAGAGAGGCCAGCGTGGGCTCACTCTGATCACTTTTGGGGGG
Restriction Sites:	NotI-NotI
ACCN:	NM_014046
Insert Size:	2250 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_014046.2 , NP_054765.1
RefSeq Size:	1439 bp
RefSeq ORF:	777 bp
Locus ID:	28973
UniProt ID:	Q9Y676
Cytogenetics:	6p21.33
Domains:	Ribosomal_S18

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. Pseudogenes corresponding to this gene are found on chromosomes 1q and 2q. [provided by RefSeq, Jul 2008]