

Product datasheet for **SC102447**

MRPS21 (NM_018997) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS21 (NM_018997) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPS21
Synonyms:	MDS016; MRP-S21; RPMS21
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_018997, the custom clone sequence may differ by one or more nucleotides

ATGGCAAAACATCTGAAGTTCATCGCCAGGACTGTGATGGTACAGGAAGGGAACGTGGAAAGCGCATACA
GGACCCTAAACAGAATCCTCACTATGGATGGGCTCATTGAGGACATTAAGCATCGGCGGTATTATGAGAA
GCCATGCCGCCGCGACAGAGGGAAGCTATGAAAGGTGCCGCGGATCTACAACATGGAATGGCTCG
AAGATCAACTTCTTGATGCGAAAGAATCGGGCAGATCCGTGGCAGGGCTGCTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018997 unedited
TCGGCACGAGGCGAGGCTCTACAGAGTGAAGGTTTAAATCCAAGGTCATGGCAAAACATC
TGAAGTTCATCGCCAGGACTGTGATGGTACAGGAAGGGAACGTGGAAAGCGCATACAGGA
CCCTAAACAGAATCCTCACTATGGATGGGCTCATTGAGGACATTAAGCATCGGCGGTATT
ATGAGAAGCCATGCCGCCGCGACAGAGGGAAGCTATGAAAGGTGCCGCGGATCTACA
ACATGGAATGGCTCGCAAGATCAACTTCTTGATGCGAAAGAATCGGGCAGATCCGTGGC
AGGGCTGCTGAGGCCTGTGGTGGGACACCCAGTGCAGAACCCCTCATCCAGTTTTCTCTC
CATCTCTTTTCTTGTACAATCCATTTCTATTACCATCTCTGCAATAAACTCAAATC
ANCATGTCTGCAAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGCGGTGATA
GCTTGTTTCTGAAACAGATCCCCGGGTGGCATCCCTGTGACCCCTCCCCAGTGCCTCTCC
TTGCCCTGGGAGTTGCCACTCCAGTGCCACACANNCTTGTCTAAAAAATTTAAGTGAT
CATTTTGTGAAAGGGGGCTCATAATATGGGGGGGGGGGGGNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNGGGGGGCGGGGGGGGNNGGGGACCCGGGGGGGGGGGGG
GNANNGGGGGTCCCGGNCCCCGCCGGGGGNNANGGAGCTCCCGCCCC



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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018997 unedited <pre> TTTTTATCTTGNACCCGCGCCGAATCTAGNGATCGGTTTTTTTTTTTTTTTTTTT CAGACATGTGATTGAGTTTATTGCAGCAGATGGTAATAGGAAATGGGATTGTACAAAGA AAAGAGATGGAGAGAAAACCTGGATGAGGGTTTCGCACTGGGTGTCCACCCACAGGCCTC AGCAGCCCTGCCACGGATCTGCCCATTCTTCGCATCAAGAAGTTGATCTTGCGAGCCA TTTCCATGTTGTACATCCGCCGGCACCTTTCATAGCTTTCCTCTGTCCCGGCGGCATG GCTTCTCATAATACCGCCGATGCTTAATGTCCTCACTGATCCCCCTCCCTCCTGTGATCT TGCTACCGTCCGTGTTTGTCTTCCCGTTCCCTTTCTCCCACTTACTGTCTTGTCCC CTCTCCCCCATGTCTTCTCCACCCCTCGATTCTCACCCTTCTCCCCCCCCACCTCTT CCCCTTCTCCCTTTCTCCTTCTTCCCTTCTTCTCCATACTCCATCCCCCACCTCC CTCCTCAGCCTTACCCCTCTTCTCCTCCCTCTCCTCCTTGACCACTGCCCTCCTCTC CTCTCTACCCCCCTCTCCGCTCTCCCTCCACACTCCCTCCCTCCCCCTCTCCCCCA TCCTTCTCCTTCCCTCCTCTACCTCTCCTCCCCCTCCCCCTCTCCTTCCCGCTCC CACCTCCACCCCTCCCTTCTGCTCCCTCTCATTTCTCAATCTCCCTCTCCTTCCCTG ATCTTCTCTCATCTTGCCCCCTCCACCCACCCACCGTGTCTCCTTCTTCTCCTCCCTC TCCCCCCCCCTTCCCCCCCCACATGTGACTTCTGCTCCGCTCCTATTATCCACGCCACC CATCACCTATACAGTCTCGACTCACCAACTGCATCTCTT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_018997
Insert Size:	420 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:	<u>NM_018997.1</u> , <u>NP_061870.1</u>
RefSeq Size:	939 bp
RefSeq ORF:	264 bp
Locus ID:	54460
UniProt ID:	<u>P82921</u>
Cytogenetics:	1q21.2

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 S21P family. Pseudogenes corresponding to this gene are found on chromosomes 1p, 1q, 9p, 10p, 10q, 16q, and 17q. Available sequence data analyses identified splice variants that differ in the 5' UTR; both transcripts encode the same protein. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 both encode the same protein. 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.