

Product datasheet for **SC114526**

MRPS16 (NM_016065) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS16 (NM_016065) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPS16
Synonyms:	CGI-132; COXPD2; MRP-S16; RPMS16
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_016065, the custom clone sequence may differ by one or more nucleotides

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ATGGTCCACCTCACTACTCTCCTCTGCAAGGCCTACCGTGGGGGCCACTTAACCATCCGCCTTGCCCTGG  
GTGGCTGCACCAATCGGCCGTTCTACCGCATTGTGGCTGCTCACAACAAGTGCCAGGGATGGCCGTTT  
CGTAGAGCAGCTGGGCTCCTATGATCCATTGCCAACAGTCATGGAGAAAACTCGTTGCCCTCAACCTA  
GACAGGATCCGTCATTGGATTGGCTGCGGGGCCACCTCTCTAAGCCTATGGAAAAGCTTCTGGGTCTTG  
CTGGCTTTTTCCCTCTGCATCCTATGATGATCACAAATGCTGAGAGACTGCGAAGGAAACGGGCACGTGA  
AGTCCTGTAGCTTCTCAGAAAACAGATGCAGAAGCTACAGATACAGAGGCTACAGAAACATAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_016065 unedited</p> <pre> NGTTCCACCATTTGTATACGACTCACTATAGGCGGCCGCGATTCCGGCACGAGGCGAGGTTT TCGGGCTTGTACCGCTTGGCGGTGCGGCCTGGTGTGCGCTTGCAGGTTCTTTCTGTGTTT GTTCTCTGCCCTGCCAAGGCCGTAGAGCTGGTGCCTGCGGGTAGCGGGGCTCTCCGAGGA GCCGCACGCCGGCGGCACCATGGTCCACCTCACTACTCTCTCTGCAAGGCCTACCGTGG GGGCCACTTAACCATCCGCTTGGCCTGGGTGGCTGCACCAATCGGCCGTTCTACCGCAT TGTGGCTGCTCACAACAAGTGTCCAGGGATGGCCGTTTTCGTAGAGCAGCTGGGCTCCTA TGATCCATTGCCAACAGTCATGGAGAAAACTCGTTGCCCTCAACCTAGACAGGATCCG TCATTGGATTGGCTGCGGGGCCACCTCTCTAAGCCTATGGAAAAGCTTCTGGGTCTTGC TGGCTTTTTCCCTCTGCATCCTATGATGATCACAATGCTGAGAGACTGCGAAGGAAAACG GGCACGTGAAGTCTGTAGCTTCTCAGAAAACAGATGCAGAAGCTACAGATACAGAGGC TACAGAAAATAAATGAGCTGACTTTAGTGAGCATAGCAGTGGGAACAAGGTCAGGTCC TTTTGAAACACTGCAGCGATCTTAATTTTGTAGATTTGGAGTTCAATAAATGGAGTATC CTGAGTTGCCCTTGTCTTCTGGCCTGCCTGCACAGGGCCACGGAGAGATTGTTCTTG TGTGACTTAAAGCTGGGTGTGGTACTAATTAGCTTTTTTCGACTTTGTCTTGGGGTAAA CAGTGGCTAGGGGAGGATGGGACTTTTGAGTGGGCCTCTGGGCCTTGGACACCTCCA ATTAC </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_016065 unedited</p> <pre> CTTGAAAATATCCCTTTTGTATGCGAACTGCAAATTTTCAAAAACCAGNAAAAGCAAAT TATTATGCTCTAGCCAAATTATGTAATGTTTTCTTTTCTTTTCTCTGTACCCAGGCTG GACTGTAGTGGAAACAATCACAGTTCAGTGCAGCATCGGCCTCTGGGCTCAAGTATCTT ACTGCCTCAGCTTCCCGAGTAGCTGGAAGTATGGGTGAGCAACACCACAGCCAGTAATT TTTTAAGTTTTTTGAGAGACGGGTCTTGTGTGTGCACAGGCTGGTCTCAAACCTCGG CTTCAAGTGATCCTTCCACCTCAGCCTCCCAAAGTGTGAGATTACAGGTGTGAGCCACT GCCCAATGGTATCTTTATATTATTTTTCTTACAAGTACTTCAAATCTTGATGTTGA ATTTCACTCACTGACTTCAGGCTTTTAAAACACATGGGAATACTTGAGACCTAAGAATG GTTGTGAGTCAAATAAAAAAGAAGAACTAAAGTATACTGAAGTTATTCAAATACATTCAA ACTATAAAGATCCCTTATAGATTACTGGCATCAAGGTAGGAAGGAAAAGATAACAAGAAG TAAATGCACCACTCATTACAGGTTGTCAACATTATTGGTATACAGTTTATCCTAACACA GAGCAGCTTCTTAACCTGCTCCATAAAATACCACCAAGAAAGAAAGTCCAAGATAACGT CACAGCTGAATTGGCTTGGTGTCTTAATTCCTATTCAGTATTCTCAGAGGATCCCATCTT GAATATGCAAAATCACAGCCATTTGAATGGTTCAATCTGATTATACTGAACTCCTTAAG ACCACCAGCTCCCATCTTAAAAGGGGGCTATTAAGCCCCAACCAATTTACACAAAACCA CCCTGATATTTAAATCCCTCACGCTGGAGGGCGGCCCCCAACCCACCTTTGGAG GCCAGGGGCATATCCAGCCAATGGACCCCTGCCACGGGGAACCCCCC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_016065
Insert Size:	2930 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_016065.3](#), [NP_057149.1](#)

RefSeq Size: 2651 bp

RefSeq ORF: 414 bp

Locus ID: 51021

UniProt ID: [Q9Y3D3](#)

Cytogenetics: 10q22.2

Domains: Ribosomal_S16

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 S16P family. The encoded protein is one of the most highly conserved ribosomal proteins between mammalian and yeast mitochondria. Three pseudogenes (located at 8q21.3, 20q13.32, 22q12-q13.1) for this gene have been described. [provided by RefSeq, Jul 2008]