

Product datasheet for **SC120198**

MRPS33 (NM_053035) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MRPS33 (NM_053035) Human Untagged Clone
Tag: Tag Free
Symbol: MRPS33
Synonyms: CGI-139; MRP-S33; PTD003; S33mt
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_053035 edited
 ATGTCCTCCCTTTCAGAATATGCCTTCCGCATGTCTCGTCTCAGTGCCCGGCTATTTGGT
 GAAGTCACCAGGCCTACTAATTCCAAGTCTATGAAAGTGGTAAAAGTGTGAACTGTTTAGTGAAGT
 CCCTTGGCCAAGAAGAAGGAGACTTATGATTGGTATCCAAATCACCACACTTACGCTGAA
 CTCATGCAGACGCTCCGATTTCTTGGACTCTACAGAGATGAGCATCAGGATTTTATGGAT
 GAGCAAAAACGACTAAAGAAGCTTCGTGGAAAAGGAGAAACCAAAGAAAGGAGAAGGGAAA
 AGAGCAGCAAAAAGGAAATAG

5' Read Nucleotide Sequence: >OriGene 5' read for NM_053035 unedited
 GTTCAAATTTGTATACGACTCACTATAGCGGCCGCGAATTCGCACGAGGGCGGCCTTC
 CGGGACGAGGGCGCTGGGTGAGGAAGGTCAGGTCTAGGAACTCTAACTCCTTGCCACTC
 AAGAAATGTCCTCCCTTTCAGAATATGCCTTCCGCATGTCTCGTCTCAGTGCCCGGCTAT
 TTGGTGAAGTCACCAGGCCTACTAATTCCAAGTCTATGAAAGTGGTAAAAGTGTGAACTGTTTAGT
 AACTGCCCTTGGCCAAGAAGAAGGAGACTTATGATTGGTATCCAAATCACCACACTTACG
 CTGAACTCATGCAGACGCTCCGATTTCTTGGACTCTACAGAGATGAGCATCAGGATTTTA
 TGGATGAGCAAAAACGACTAAAGAAGCTTCGTGGAAAAGGAGAAACCAAAGAAAGGAGAAG
 GAAAAAGAGCAGCAAAAAGGAAATAGTGTGGTCCCTCAAGAGGGAGACTTTCTTCTCA
 GTGGCGGAGAGAAGAAAGTGCATTTATTGTCTTCCACATATTGGAGGAATGTCATCTTC
 CTAATGAAGTTTATTTGGAGGAACACAGTCATCTCCTTGGTGAATCTAATCCGTTAC
 ATTGTGGCTGGTTTCTTGAACACATTCTAACTGTGCAAAATTATCTTGGCCTTGGCCGTG
 TAATGTGAGGTTTACCTGATTCTCTAATGAAATAAATACCTAAGTTATTAANAANAANA
 AAAAAANAANAANAACCTCAACTTTAAATGGCGGCCGCGGCATATCTGGTTCTGGACA
 AAACCCGGTGGCATTCTGGGACCTCTCCCATGGCCTTTCTGGGCTTGAAGTTGCCCTC
 CAGGGCCACAGCTTGGTCTATAAAAATAAAGTGGCTCATTTTGCCGAATAGGGGCCCT
 TCTATATATATGGGGTGAGGG



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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_053035 unedited TGGACGCGCCGCTTTCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAA ACTTAGGTATTTATTTTCATTAACAAAACAGGTAAACCTCACATTACACGGCCCAAGGCCCA AAATAATTTTGCACAGTTAAATGTGTTCAAAAAACCAGCCACAATGTAACCGGATTA TTTACCAAGGGAGATGACTGGGTTCTCCAAATAAACTTCATTTAGGAAAATGACATTC CTCCAATATGTGAAAAGACAATAAATGCACACTTTTTTTTTTCCGCCACTGAGGAAAAAAGT CTCCCTTTTGAGGGACCAACACTATTTCTTTTTGCTGCTTTTTTCCCTTCTCCTTTCTT TGGTTTCTCCTTTCCACAAGCTTTTTTAGTCGTTTTTGTCTCATCCATAAAATCCTGATG CTCATCTCTGTAAAGTCCAAAAATCGGAGCGTTTGCATGAGTTCAGCGTAAGTGTGGGG ATTTGGATACCAATCATAAGTCTCCTTTTTCTTGGCCAAGGGCAGTTCATAACAGTTT CACCACCTTCATAAACTTGAATTAGTAGGCCTGGTGACTTCACCAAAATAGCCGGGCACT GAGACGAGACATGCGGAAGGCATATTCTGAAAGGGAGGACATTTCTTGAGTGGCAAGGAG TTAGAGTTCCTAACCTGACTTTCTTACCCACGCGCCCTGGTCCCGGAAGCCCCGCCCC TCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAAATTTGAGTTCTACTA AACAACTGCTTATATAGACTCTCCACGGTCACGCTTACCGCCAATTTGCGTTAAGGGG CGGGTTATACCCACTTTTGAAAAGTCCCGTTGATTTTGGTGCAAAACAATTCCTTGAC GTAATGGGGTGGAAAT
Restriction Sites:	NotI-NotI
ACCN:	NM_053035
Insert Size:	730 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:	<ol style="list-style-type: none"> 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_053035.1</u> , <u>NP_444263.1</u>
RefSeq Size:	653 bp
RefSeq ORF:	321 bp
Locus ID:	51650
UniProt ID:	<u>Q9Y291</u>
Cytogenetics:	7q34

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. The 28S subunit of the mammalian mitoribosome may play a crucial and characteristic role in translation initiation. This gene encodes a 28S subunit protein that is one of the more highly conserved mitochondrial ribosomal proteins among mammals, *Drosophila* and *C. elegans*. Splice variants that differ in the 5' UTR have been found for this gene; all variants encode the same protein. Pseudogenes corresponding to this gene are found on chromosomes 1q, 4p, 4q, and 20q [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) uses a different segment for its 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein.