

Product datasheet for **SC117082**

MRPL33 (NM_004891) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | MRPL33 (NM_004891) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | MRPL33 |
| Synonyms: | C2orf1; L33mt; MRP-L33; RPL33L |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_004891, the custom clone sequence may differ by one or more nucleotides |

[ATGTTCTCTCCGCGTCTTCTTTGCCAAGAGCAAGTCAAAAAACATTCTGGTGAGAATGGTGAGCGAAGCTGGGACAGGTTTCTGCTTCAACACCAAGAGAAACCGACTGCGGGAAAACTGACTCTTTTGCAATTATGATCCAGTTGTAAACAAAGAGTCTCTTCGTGGAAAAGAAAAAATACGCTCCCTTTAA](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004891 unedited
TTGTATACGACTCACTATAGGGCGCGCGATTGCGCACGAGGCGGAGACTGCCAGGTG
TGGTCACCATGTTCTCTCCGCGTCTTCTTTGCCAAGAGCAAGTCAAATGAAACAAAGA
GTCCTCTTCGTGGAAAAGAAAAAATACGCTCCCTTTAAACGGTGGATTGAAAATGACTT
TGATTTATAAAGAGAAGACTGAGGGCGGGGATACTGATTCAGAAATCCTGTAGCGTGAA
TAAAAGAAGAGGAAATGGCATGGAATCACTGCCTCCTGTGATTTGAAGGCCATTGTGAAG
GAAAACAATGCAGTGAAGAAAGTTCTTCATATTAGGACAGATATCATTGCATCACATTT
ATTTATCTTTCTGGGTATTTTTATAGCCCTTAATAAAAAATATTAATAAAAAAAAAA
AAAAAACTCGACTCTAGATTGCGGCCGCGGTATAGCTGTTTCTGAACAGATCCCGGG
TGGCATCCCTGTGACCCCTCCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTG
CCCACCAGCCTTGTCTAAAAAATTAAGTTGCATCATTTTGTCTGACTAGGTGTCCTTCT
ATAATATTATGGGGAGGGGNGGGGNNANTGGGCCAAAGGGCCAATTTGGGAAAACCAC
CTGGTAGGCTGGCGGGTCCATTGGGAACAGCCTGGAAGGCAGGGGCACAATCTGGGCT
ACTGCAATCTCCGCTNNTTGGTTCAAGCGATTCTCTGCCTCGCTCCCGGGTGGTTG
GAATCCAGGGCTGCTGACCGGTAGCTAATTTTTGTTTTTTGGAAAAACGGGGTTTTA
CCATTATGGCCAGTTGGGCTTCCACTCTATCTTAGGTGATCCACCACCTTGGCTCCAAT
GTTGGGTTTACAGCGTGACCACTGTCCTTCTGGCTTTGGATT



[View online »](#)

| | |
|-------------------------------------|---|
| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_004891 unedited TGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTATTTAATATTTTT ATTAAGGGCTATAAAAATACCCAGAAAGATAAATAAATGTGATGCAATGATATCTGTCT AATATGAAGAACCTTTCTTCACTGCATTGTTTTCTTCCACAATGGCCTTCAAATCACAGG AGGCAGTGATTCCATGCCATTTCTCTTTTATTACACGCTACAGGATTTCTGAATCA GTATCCCCGCCCTCAGTCTTCTTTATAAATCAAAGTCATTTTCAATCCACCGTTTAA GGGAGCGTATTTTTTTCTTTTCCACGAAGAGGACTCTTTGTTTCATTTGACTTGCTCTTG GCAAAGAAGACCGCGGAGAGGAACATGGTGACCACCTGGGCAGTCTCCGCCTCGTGCC GAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAAATTCTGACGGTTCACTAAACGAG CTCTGCTTATATAGACCTCCCACCGTACACGCCTACCGCCATTGCGTCAACGGGGCGG GGTTATTACGACATTTTGGAAAGTCCCCTTGATTTTGGTGCCAAAACAACTCCCATTGA CGTCAATGGGGTGGAGACTTGGAAATCCCCGTGAGTCAAACCGCTATCCACGCCATTGG TGTACTGCCAAAACCGCATCACCATGGTAATAGCGATGACTAATACGTAGATGTACTGCC AAGTANGAAAGTCCCGTAAGTCAATGTACTGGGCATAATGCCANGCGGGCCCTTTACCGT CATTGACGTCAATAGGGGGCCGGACTGGGCCTATGATACACTTGATGTACTGCCAAGTGG CCAGTTTACCGTAAATACTCCCCCATTGCCGCCATGGAAAGTCCCTATTGCGGTTCTTT GGG |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_004891 |
| Insert Size: | 370 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: | NM_004891.2 , NP_004882.1 |
| RefSeq Size: | 528 bp |
| RefSeq ORF: | 528 bp |
| Locus ID: | 9553 |
| UniProt ID: | O75394 |
| Cytogenetics: | 2p23.2 |

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 39S subunit protein. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) encodes the longer isoform (a).