

## Product datasheet for **SC101403**

### MRPS36 (NM\_033281) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS36 (NM_033281) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPS36
Synonyms:	DC47; MRP-S36
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_033281, the custom clone sequence may differ by one or more nucleotides

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ATGATGGGCAGCAAGATGGCGTCTGCTAGTAGGGTCGTT CAGGTAGTCAAACCACACTCCATTAATAA  
GGTTTCCTGACAGAAGAGACAATCCTAAACCAATGTATCAGAAGCTTTGAGATCAGCAGGGCTACCATC  
TCACTCTTCTGTAATTTCAACATTCTAAAGGAAGTAAATCACCAGATTTGCTGATGTATCAGGGTCCA  
CCAGACTGCAGAAATAATAAAACATTACCTCAGAAATACAGAAGGAACTTGTGTCTCAAGAAGAAA  
TGAATTTATCCAACGTGGAGGTCCTGAATAA
```



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_033281 unedited</p> <p>TCACTATATTTGTNATCACGAACTTCACTCTNAGGGNCCGCGCAATTTCGGCAGAG  GCAAGATGGCGTCTGCTAGTAGGGTCGTTCAAGTATCAGAAGCTTTGAGATCAGCAGGGCT  ACCATCTCACTCTTCTGTAATTTACAACATTCTAAAGGAAGTAAATCACCAGATTTGCT  GATGTATCAGGGTCCACCAGACTGCAGAAATAATAAAACATTACCTCAGAAATACAG  AAGGAAACTTGTGTCTCAAGAAGAAATGGAATTTATCCAACGTGGAGGTCCTGAATAACC  ATGGTGGCTGCTGTTTGTATCAGACAATAGAATTGCTTTTACAATAAAGGACTTCCAAA  ATGACAGATGAGAACTGTATATTAACACCTTTAATAAATATTATGAAAAAAAAAAAA  AAAAACTCGACTCTAGATTGCGGCCGCGTCATAGCTGTTTCTGAACAGATCCCGGGTG  GCATCCCTGTGACCCCTCCCGAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTGCC  CACCAGCCTTGTCTAATAAAATTAAGTTGCATCATTTTGTCTGACTAGGTGTCTTCTA  TAATATTATGGGGTGGAGGGGGTGGTATGGAGCAAGGGGCAAGTTGGGAAGACAACCTG  TAAGGCCTGCGGTGTCTATTGGGAACCAAGCTGGAGTGCAGTGGCACAATCTTGCTCAC  TGCAATCTCCGCCTTCTGGTTCAAGCGATTTCTCTGCCTTAGCCTCCCGAGTTGTGGG  ATTCCACGCATGCATGACCAGGCTCAACTAATTTTGTTTTTTTGGTAGAGACCGGGTTA  CCATATTGCCAGCTGGGCTCAACTCCTATCTAAGGTGACCTACCACCTTGCCTTCCAAT  TGCTGGAATACAGCGTGAACCACGCTCCCTTCCCTGTCTTTTATTAAAACTTCCAC  CCGG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_033281 unedited</p> <p>TTTTNNNNNNNNNTTTTACTCTGNCCCCGCGNCCGCATACNANGATCGAGTTTTTTTT  TTTTTTTTTTCATAATTTTATTAAGGTGTTTAAATACAGTTTCTCATCTGTCATTTT  GGAAGTCTTTATTGTAAGACAATTCTATTGTCTGATGACAAACAGCAGCCACCATGGT  TATTCAGGACCTCCACGTTGGATAAATCCATTTCTTCTTGAGACACAAGTTTCCTTCTG  TATTTCTGAGGTAATGTTTTTATTTTCTGCAGTGTCTGGTGGACCCTGATACATCAGC  AAATCTGGGTGATTTACTTCTTTAGAATGTTGTGAAATTACAGAAGAGTGAGATGGTAG  CCCTGCTGATCTCAAAGCTTCTGATACTGAACGACCCCTACTAGCAGACGCCATCTTGCT  CGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGATTACAAAATTTCTGACGGTTCACTA  AACGAGCTCTGCTATATAGACCTCCCACCGTACACGCCTACCGNCCATNTGCGTCAACG  GGGCGGNGTTATACGACATTTTGAAGTCCCNGTGATTTTGGTGCCAAACAACTCCC  ATTGAGTCAATGGGGTGAAGTGGAAATCCCCTGAGTCAAACCGCTACCACGCCCAT  GGNTGTACTGCCAAACGCATCACCATGGGAATAGCGATGACTAATCCGTAAATGACTGC  CCAGTAGAAAGTCCCGTAAGTCATGACTGGGCATATGCCAGCGGGCCATTACCNCAT  TGACCTCATAGGGGCCGNCCTGGCCTTTGAACCCCTGGAAGCACGCCAATGGGCCTTTAC  CGAAATCCTCACCATGACCCAATGGAAAGCCCTTTGGGCTTCTTGGGAACTACCATT  TTGCCCAAGGGCCGGGCTTGGCGGGACACGGGCCTTTCCCA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_033281
<b>Insert Size:</b>	410 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_033281.5](#), [NP\\_150597.1](#)

**RefSeq Size:** 1329 bp

**RefSeq ORF:** 312 bp

**Locus ID:** 92259

**UniProt ID:** [P82909](#)

**Cytogenetics:** 5q13.2

**Gene Summary:** Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. The mitochondrial ribosome (mitoribosome) consists 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. Pseudogenes corresponding to this gene are found on chromosomes 3p, 4q, 8p, 11q, 12q, and 20p. [provided by RefSeq, Jul 2008]