

## Product datasheet for **SC117033**

### MRPL49 (NM\_004927) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL49 (NM_004927) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL49
Synonyms:	C11orf4; L49mt; MRP-L49; NOF; NOF1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_004927 edited ATGGCAGCTACCATGTTCCGGGCTACGCTGCGGGGATGGAGAACCGGTGTCCAGCGGGGC TGCGGGCTACGGCTGTTGAGCCAGACCCAGGGCCCTCCAGATTACCCAGGTTTGTGGAG TCTGTGGATGAATATCAGTTTGTGGAGCGCCTGTTACCGGCTACCAGGATCCCAGATCCC CCAAAGCATGAACATTATCCTACCCCTAGTGGCTGGCAGCCTCCCAGAGACCCCCACCC AACCTGCCTTACTTTGTACGACGCTCTCGGATGCACAACATCCCCGTCTACAAGGACATC ACGCATGGCAACCGGCAGATGACTGTGATCCGAAAGTGAAGGGGACATCTGGGCCCTG CAGAAAGACGTGGAAGATTTTCTGAGCCCCTGCTGGGAAGACACCTGTCACCCAGGTC AATGAGGTGACAGGTACCCTACGGATCAAGGGCTACTTTGACCAGGAGCTTAAAGCCTGG CTCTTGGAGAAAGGCTTCTGA



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_004927 unedited</p> <pre>GGCATATTTGTNAATACGCACTCACTATAGGNNCGGCCGCAATTCGGCACGAGGGTA AAGATGGCAGCTACCATGTTCCGGGCTACGCTGCGGGGATGGAGAACCGGTGCCAGCGG GGCTGCGGGCTACGGCTGTTGAGCCAGACCCAGGGCCCTCCAGATTACCCAGGTTTGTG GAGTCTGTGGATGAATATCAGTTTGTGGAGCGCTGTACCGGTACCAGGATCCCAGAT CCCCAAAGCATGAACATTATCTACCCCTAGTGGCTGGCAGCCTCCCAGAGACCCCCCA CCCAACCTGCCTTACTTTGTACGACGCTCTCGGATGCACAACATCCCCGTCTACAAGGAC ATCACGCATGGCAACCGGCAGATGACTGTGATCCGAAAAGTGAAGGGGACATCTGGGCC CTGCAGAAAGACGTGGAAGATTTCTGAGCCCGCTGCTGGGGAAGACACCTGTACCCAG GTCAATGAGGTGACAGGTACCCTACGGATCAAGGGCTACTTTGACCAGGAGCTTAAAGCC TGGCTCTTGGAGAAAGGCTTCTGAGGCCAGCCGAGCAGCCTGCATGTCAGCATGCCCTG TGGATCAAGTCTAGGGGGCTCANGAGGAGGGAGGTGGTGTGGAGCCCTGAGACAGG GGATACAGAACTAGGGCTAAAGGACTTTGGGTGAGCCTTGTGCATAAAGGAGAAA ACAACCTATGTACATGTNGGGGAGAGTGCTAATGTGGGAGACCAAATANGGATCACC ACGCTAATGGGGGCGTCAACAGCTTCTCTCCCTCTATCTTGGCCTGTTCTTTTTTTG TTTTTGAGACNGAGTCTCACTCTGTTGCCACGGTTGGAGTGCCATGGCATGATCTTGGC TCACTGCACCTTACCTTTGGGATAAGGGATTCTCTGCCTCACCTTTTGGTAGCTGGTAT ACAGCCCCCA</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_004927 unedited</p> <pre>ACCGCGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTCAGATGATTATTTAATT TGTAATATTGTACAAATTTAATAGCTTAAATGTATATACAGCCAAATAAAAACCTTG ATTAACAATTGGTGGGTTTGTGTCACAGAATCGATCAAATCAGTGTGGGCTCCTTGCT GTGGCTGTACACTGAAAATGGAATGGAATCTCCAGGAGTGAGGGTTTCCATGGAAGCCA GCACTATCCTTGGGGACACCACTGACCATTAACAGATTAGGAAGATGTGCCATTTTACA CACAGAGAAGCAGCCAGAGTTCAGTGCCTGCTTCAGGGCAGAGACCAAGTTGGGGAGT CAGGAAGTGAAGCTGTCTTAGCCAGTTTGGGGCAGGGTGGGGTCTCAGGCCTTTGGCC CCTGTGACTCCAAGTATAAGGCATATATGAAGGCTAGTGAGCTGGGGTGGGATGGGATG GCAGGGTGAAGGTCAGCATATTCCTGCCTGCAAACCCCTCCCCAGCCTTGATTGCAGGT CAGAAGGCTGCAGGGGATGTCCCTATGCTGGCTGTGAGTCCCAGCCACTCCCTTGTGG TCAGGCCAGCAAGTCTGGTCTGCAATGGAACAGTGACCAAGAACGTGCCTCCTACCTCTC TATCAGACCCCGGCTAACGTGGGCACTCTGTGCCCCAGTGCCAGCACTGACTTTGAAAC AGAAGATCTCAAGACCCATGCCCGAGTCATCTGTGTTCTCCATCACCTGCACCAAACAA GATCTGGCCTATAGCAAAGGCTTGGNGGTATTTGCAACAGTGAGCTTTGGAGCCAAAGA ACCAAATGCCAGTGGCTTTGCCCTGGCTACCTCCCTTAACTGGGTGGCCACTGTTCCA CCATAACACTAAATTTGATTGCTGAGCCCAGGGAAAAAAT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004927
<b>Insert Size:</b>	1960 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\\_004927.2](#), [NP\\_004918.1](#)

**RefSeq Size:** 2107 bp

**RefSeq ORF:** 501 bp

**Locus ID:** 740

**UniProt ID:** [Q13405](#)

**Cytogenetics:** 11q13.1

**Domains:** lmg2

**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. Pseudogenes corresponding to this gene are found on chromosomes 5q and 8p. [provided by RefSeq, May 2011]  
Transcript Variant: This variant (1) is the predominant transcript and it encodes the functional protein.