

Product datasheet for **SC101186**

MRPL4 (NM_146388) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL4 (NM_146388) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL4
Synonyms:	CGI-28; L4mt
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_146388, the custom clone sequence may differ by one or more nucleotides

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ATGCTGCAGTTCGTCCGGCCGGGGCGCGGGCCTGGCTTCGGCCTACCGGCAGCCAGGGCCTGAGTTCCC  
TGGCGGAAGAGGCAGCGCGTGCACCGAGAACCCGGAGCAGGTGGCGAGCGAGGGTCTCCCGAGCCCGT  
GCTGCGCAAAGTCGAGCTCCCGTACCCACTCATCGACGCCAGTGCAGGCCTGGTTCGAGTCTTGCGG  
GGCTTCGAGCAGGAGCGCGTGGCCTGGCCGACCTGCACCCCGATGTTTTCGCCACCGCGCCAGGCTGG  
ACATACTGCACCAGTTGCTATGTGGCAGAAGAACTTCAAGAGAATTAGCTATGCCAAGACCAAGACGAG  
AGCCGAGGTGCGGGCGGTGGCCGGAAGCCTTGGCCGCAGAAAGGCACTGGGCGGGCCCGGCATGGCAGC  
ATCCGCTCTCCGCTCTGGCGAGGAGGAGGTGTTGCCCATGGCCCCGGGGCCCCACAAGTTACTACTACA  
TGCTGCCCATGAAGGTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCCAGGACGACCT  
GCACATCATGGACTCCCTAGAGCTGCCACCGGAGACCCACAGTACCTGACAGAGCTGGCGCACTACCGC  
CGCTGGGGGACTCCGTACTCCTCGTGGACTTAACACACGAGGAGATGCCACAGAGCATCGTGGAGGCCA  
CCTTAGGCTTAAGACCTTCAACTTGATCCCGGCTGTTGGTGAGCAAAGAGCCCAGGCCCTAGAGTGCG  
CATGTGCAGGCTCCGCTGTTAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_146388 unedited NNCCTGTTCAAATTTGTATACGACTCATATAGCGGCCCGCNAATTCGCACCAGCCAAAG TAGCTAGGCCTACGGAAGCTGGGTCTTCTTGCTGTGAGGTCGCGTTCCCCAGTGTACGG AGGGTCCTTGAGGCAGGAGTGAAAATTGGGTCTGGGGTTAGTCTGGGGTGGAGGCTG GGCACGCCGGGTGCGACCCCTCCATCTTCGGTTTTGCACACCCCGCTTCCAGCGCGGA GTCGCGGGGGTAGGGCGGCGTGCCTGCGTGCAGTCATCCAGCGGCGCCTCGGAGGCT CCAGTGGCCTTGACCTCCCGCGGCGTGGGAGGCTGCGCGCGATGCTGCAGTTCGTCCGG GCCGGGGCGCGGCTGGCTTCGGCCTACCGGCAGCCAGGCGCTGAGTTCCTGGCGGAA GAGGCAGCGCGTGCACCGAGAACCCGGAGCAGGTGGCGAGCGAGGGTCTCCCGGAGCCC GTGCTGCGCAAAGTCGAGCTCCCGGTACCCACTCATCGACGCCAGTGCAGGCCTGGGTC GAGTCCTTGCGGGGCTTCGAGCAGGAGCGGTGGGCTGGCCGACCTGCACCCCGATGTT TTCGCCACCGCGCCAGGCTGGACATACTGCACCAGGTTGCTATGTGGCAGAAGAATTC AAGAGAATTAGCTATGCCAAGACCAAGACGAGAGCCGAGGTGCGGNNGCGGTGGCCGAAA GCCTTGCCCGCAGAAAGCACTGGGCGGGCCCGCATGGCAGCATCCGCTTTCGCTCTGG CGAGGANANGTGTGCCCATGGGGCCCCGGGCCCAAGTACTACTACATGCTGC CNNATGAAGTGGGNCGCTGGNTCTCAAAGTGCAGTGCACGTCGCGTCAAGCTGGCCAGGACGAC TGCCATCATGGACTCCCTA
Restriction Sites:	NotI-NotI
ACCN:	NM_146388
Insert Size:	1600 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_146388.1</u> , <u>NP_666500.1</u>
RefSeq Size:	2404 bp
RefSeq ORF:	792 bp
Locus ID:	51073
UniProt ID:	<u>Q9BYD3</u>
Cytogenetics:	19p13.2
Domains:	Ribosomal_L4

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. Sequence analysis identified alternatively spliced variants that encode different protein isoforms. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (3) uses an alternate splice site in the 3' coding region, compared to variant 1, that results in a frameshift. It encodes an isoform (b) which has a shorter and distinct C-terminus compared to isoform a. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.