

Product datasheet for **SC319301**

MRPL4 (NM_146387) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MRPL4 (NM_146387) Human Untagged Clone
Tag: Tag Free
Symbol: MRPL4
Synonyms: CGI-28; L4mt
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_146387.1
GACCTCCCGCGGCGTGGGAGGCTGCGCGGCGATGCTGCAGTTCGTCGGGCCGGGGCGCG
GGCCTGGCTTCGGCCTACCGGCAGCCAGGGCCTGAGTTCCTGGCGGAAGAGGCAGCGCG
TGCACCGAGAAACCCGGAGCAGGTGGCGAGCGAGGGTCTCCCGAGCCCGTGCTGCGCAA
AGTCGAGCTCCCGGTACCCACTCATCGACGCCAGTGCAGGCCTGGGTCGAGTCCTTGCG
GGGCTTCGAGCAGGAGCGGTGGCCTGGCCGACCTGCACCCCGATGTTTTCGCCACCGC
GCCAGGCTGGACATACTGCACCAGTTGCTATGTGGCAGAAGAACTTCAAGAGAATTAG
CTATGCCAAGACCAAGACGAGAGCCGAGGTGCGGGCGGTGGCCGAAGCCTTGGCCGCA
GAAAGGCACTGGGCGGGCCCGGCATGGCAGCATCCGCTCTCCGCTCTGGCGAGGAGGAGG
TGTTGCCATGGCCCCGGGGCCCCACAAGTTACTACTACATGCTGCCCATGAAGGTGCG
GGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCAGGACGACCTGCACATCAT
GGACTCCCTAGAGCTGCCACCGGAGACCCACAGTACCTGACAGAGCTGGCGCACTACCG
CCGCTGGGGGACTCCGTACTCCTCGTGGACTTAACACACGAGGAGATGCCACAGAGCAT
CGTGGAGGCCACCTCTAGGCTTAAGACCTTCAACTTGATCCCGGCTGTTGGCCTAAATGT
GCACAGCATGCTCAAGCACCAGACGCTGGTCTGACGCTGCCACCGTCGCCTTCTGGA
GGACAAGCTGCTCTGGCAGGACTCACGTTACAGACCCCTTACCCCTTACGCTGCCCTA
CAGCGACTTCCCCGACCCTACCCACGCTACCCAGGGCCAGCGGCCACCCCGTACCA
CTGTTGATGTGAAGCACCTTTCTGAGCCAGGCCGAGCCCTGGCCGACTTGGGAGCCTC
AGGCCACGCCACCCTTCGAGGAAGGTGTACCTGGACCCCTTATTCCACGGAGGAAG
CTGAGGCCACAGGAGCGGCCATCGCCATTGGGAAGGGGCGACTCCACGAAAGCCAGA
CGGGCTTCTGCATCCATTCCCTCTTTTTGTTTTTAAAAATAAATTGTATTTTTGAATCAAA
AA

Restriction Sites: Please inquire
ACCN: NM_146387



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_146387.1 , NP_666499.1
RefSeq Size:	1375 bp
RefSeq ORF:	936 bp
Locus ID:	51073
UniProt ID:	Q9BYD3
Cytogenetics:	19p13.2
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform (a).</p>