

Product datasheet for **SC114544**

MRPL4 (NM_015956) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL4 (NM_015956) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL4
Synonyms:	CGI-28; L4mt
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114544 sequence for NM_015956 edited (data generated by NextGen Sequencing)

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ATGCTGCAGTTCGTCCGGCCGGGGCGCGGCCTGGCTTCGGCTACCGCAGCCAGGGC
CTGAGTTCCTTGCGGAAGAGGCAGCGCTGCGACCGAGAACCCGGAGCAGGTGGCGAGC
GAGGGTCTCCCGAGCCCGTGTGCGCAAAGTCGAGCTCCCGGTACCCACTCATCGACGC
CCAGTGCAGGCCTGGTTCGAGTCTTGGGGGCTTCGAGCAGGAGCGCTGGCCTGGCC
GACCTGCACCCCGATGTTTTCGCCACCGCGCCAGGCTGGACATACTGCACCAGTTGCT
ATGTGGCAGAAGAACTTCAAGAGAATTAGCTATGCCAAGACCAAGACGAGAGCCGAGGTG
CGGGGCGGTGGCCGGAAGCCTTGGCCGAGAAAGGCACTGGGCGGGCCCGGCATGGCAGC
ATCCGCTCTCCGCTCTGGCGAGGAGGAGGTGTTGCCATGGCCCCGGGGCCCCACAAGT
TACTACTACATGCTGCCATGAAGGTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTC
AAGCTGGCCAGGACGACCTGCACATCATGGACTCCCTAGAGCTGCCACCGGAGACCCA
CAGTACCTGACAGAGCTGGCGCACTACCGCCGCTGGGGGACTCCGTACTCCTCGTGGAC
TTAACACACGAGGAGATGCCACAGAGCATCGTGGAGGCCACCTCTAGGCTTAAGACCTTC
AACTTGATCCCGGCTGTTGGCCTAAATGTGCACAGCATGCTCAAGCACCAGACGCTGGTC
CTGACGCTGCCACCGTTCGCTTCTGGAGGACAAGCTGCTCTGGCAGGACTCACGTTAC
AGACCCCTTACCCCTTACGCTGCCCTACAGCGACTTCCCCGACCCCTACCCACGCT
ACCCAGGGCCAGCGCCACCCGTACCACTGTTGA
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Clone variation with respect to NM_015956.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_015956 unedited TATTTCCCGCCGNTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAA GCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCG CGCGAGGCTCCAGTGGCCTTGACCTCCCGCGGCGTGGGAGGCTGCGCGGCGATGCTGCAG TTCGTCCGGGCCGGGGCGCGGCCTGGCTTCGGCCTACCGGCAGCCAGGGCCTGAGTTCC CTGGCGGAAGAGGCAGCGCTGCGCAAGTCGAGCTCCCGGTACCCACTCATCGACGCCAGTGCAG CCGGAGCCCGTGTGCGCAAAGTCGAGCTCCCGGTACCCACTCATCGACGCCAGTGCAG GCCTGGGTTCGAGTCTTTCGGGGCTTCGAGCAGGAGCGCGTGGCCTGGCCGACCTGCAC CCCGATGTTTTGCCACCGCGCCAGGCTGGACATACTGCACCAGGTTGCTATGTGGCAG AAGAACTCAAGAGAATTAGCTATGCCAAGACCAAGACGAGAGCCGAGGTGCGGGGCGGT GGCCGGAAGCCTTGCCCGCAGAAAGGCACTGGCGGGGCCCGCATGGCAGCATCCGCTCT CCGCTCTGGCGAGGANGTGTGCCATGGCCCCGGGGCCCCACAAGTTACTACTAC ATGCTGNCCATGAAGGTGCGGGCGTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCC CCAGACGACCTGCACATCATGGACTCCCTAGAGCTGCCACCGGAGACCCACAGTACCTG ACAGAGCTTGGCGACTACCGCCGCTGTGGGGACTTCGACTCCTCGTGGCTTTATCCACC GAGAGATGCCAGAGCATCGTGGAGGCCCTCTATGCTTAAGACCTTCACTTGATCCCGG CTGTTGCCCTAATGTGCCAGATGCTTCAGC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_015956 unedited NCGTTTTAGCTATGNNACCGCGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTTA TCCTCCTTGATCAAATAACAATTTATTTAAAAACAAAAGAGGGAATGGATGCAGAAG CCCGTCTGGGCTCTCCGTGGAGTCGCCCTTCCAATGGCGATGGCCGCTCCCTGTGGCC TCAGTTCCTCCGTGGAATGAAGGGTCCAGGTGACACCTTCTCGAAGGGTGGGCGTGG GCCTAAGGCTCCAAGTCGGCCAGGGGCTCGGCCTGGCACAGAAGAGGTGCTTCACATCA ACAGTGGTACGGGTGGCCGCTGGGCCCTGGGTAGCGTGGGGTAGGGTGGGGGAAGTC GCTGTAGGGCAGGCTGAAGGGTAGAGGGTCTGTAACGTGAGTCTGCCAGAGCAGCTT GTCCTCCAGGAAGGCGACGGTGGGCAGCGTCAGGACCAGCGTCTGGTGTGAGCATGCT GTGCACATTTAGGCCAACAGCCGGATCAAGTTGAAGGTCTTAAGCCTAGAGGTGGCCTC CACGATGCTCTGTGGCATCTCCTCGTGTGTTAAGTCCACGAGGAGTACGGAGTCCCCCA GCGGCGGTAGTGCAGCTCTGTGAGTACTGTGGTCTCCGGTGGGCAGCTCTAGGGA GTCCATGATGTCAAGTCTCCTGGGCCAGCTTGACCGTCAGTGCCCTTTGAGACCCAG CGCCCGACCTTCATGGGCAGCATGTAGTAATAACTTGTGGGGGCCCGGGCCATGGGG CACACCTCTTCTTCCAAACCGAAAGCGGATGCTGCCATGCCCGGGCCCCCATGGG CTTTTTGCGGCAAGGTTTCGGGCCCGCCCCCTTGTTCTTGTTTTGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_015956
Insert Size:	1250 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:

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_015956.2](#), [NP_057040.2](#)

RefSeq Size: 1511 bp

RefSeq ORF: 936 bp

Locus ID: 51073

UniProt ID: [Q9BYD3](#)

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 (1) is the predominant transcript and it encodes the same isoform (a) as variant 2.