

Product datasheet for **SC122638**

MRPL12 (NM_002949) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL12 (NM_002949) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL12
Synonyms:	5c5-2; L12mt; MRP-L31/34; MRPL7; MRPL7/L12; RPML12
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_002949 edited

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GCCCGGCAGCCGTGGCGGCTAGAGCGTTCTCCCGAGCTCGAATGCCCGGCGCCGAGGC
GGCTAGAGCGTCGCCTCCTCCCGGGAACCGCGTGTGACCTTCCAGCCCGCGGACCGATG
CTGCCGCGCGCCGCTCGCCCCCTGTGGGGCCTTGCCCTTGGGCTTCGGGCGCGTGCCTTC
CGCCTTGCCAGGCGACAGGTGCCATGTGTCTGTGCCGTGCGACATATGAGGAGCAGCGGC
CATCAGAGGTGTGAGGCCCTCGCTGGTGACCCCTGGATAACGCCCCAAGGAGTACCCC
CCCAAGATACAGCAGCTGGTCCAGGACATCGCCAGCCTCACTCTTGGAAATCTCAGAC
CTCAACGAGCTCCTGAAGAAAACGTTGAAGATCCAGGATGTGGGCTTGTGCCGATGGGT
GGTGTGATGTCTGGGCTGTCCCTGCTGCAGCAGCCAGGAGGCGGTGGAAGAAGATATC
CCCATAGCGAAAGAACGGACACATTTACCGTCCGCTGACCGAGGCGAAGCCCGTGGAC
AAAGTGAAGCTGATCAAGGAAATCAAGAACTACATCCAAGGCATCAACCTCGTCCAGGCA
AAGAAGCTGGTGGAGTCCCTGCCCCAGGAAATCAAAGCCAATGTGCGCAAAGCTGAGGCG
GAGAAGATCAAGGCGGCCCTGGAGGCGGTGGGCGGCACCGTGGTTCTGGAGTAGCCTCCA
GCTCGGAGGACTTGTGTTTCAGGGGTCTGGGCCCCGGGCGAGGTCCCGCCCTCCCGTGGT
CACTGGCTCCGCCCCAGCAGGCGCCAGTGGAGCTGTTGGGAGAAATTGCCTGCGC
CACGCAGCGGGGCCGACAGGCCGACAGACCTACTGTGGCGGGAGGGAGGGGCGGCTGC
TGCTGGTGACGGCACCCGGAGGCCACCAGGACGCGCCACCGGTGAATGTGCCTCTGGT
GGCTGCTGAGAAAAATACACTGTGCAGCTCAGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002949 unedited <pre> TTTTNNNGATGTCAGAATTGTAAACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGG CCCCGCAGCCGTGGCGGCTAGAGCGTTCTCCCCAGCTCGAATGCCCCGGCGGCCGAGGCG GCTAGAGCGTCGCTCCTCCCGGGGAACCGCGTGTGACCTTCAGCCCGCGGACCGATGC TGCCGGCGGCCGCTCGCCCCCTGTGGGGGCTTGCCTTGGGCTTCGGGCCGCTGCGTTCC GCCTTGCCAGGCGACAGGTGCCATGTGTCTGTGCCGTGCGACATATGAGGAGCAGCGGCC ATCAGAGGTGTGAGGCCCTCGCTGGTGCACCCCTGGATAACGCCCCCAAGGAGTACCCCC CCAAGATACAGCAGCTGGTCCAGGACATCGCCAGCCTCACTCTCTTGAAATCTCAGACC TCAACGAGCTCCTGAAGAAAACGTTGAAGATCCAGGATGTCGGGCTTGTGCCGATGGGTG GTGTGATGTCTGGGGCTGTCCCTGCTGCAGCAGCCAGGAGGCGGTGGAAGAAGATATCC CCATAGCGAAAGAACGGACACATTTACCGTCCGCCTGACCGAGGCGAAGCCCGTGGACA AAGTGAAGCTGATCAAGGAAATCAAGAACTACATCCAAGGCATCAACCTCGTCCAGGCAA AGAAGCTGGTGGAGTCCCTGCCCGAGAAATCAAAGCCAATGTCGCCAAGCTGAGGCGG AGAAGATCAAGGCGGCCCTGGAGCCGTGGGCGGCACCGTGGTTCTGGAGTAGCCTCCAG CTCGGNAGACTTGTNGTCAGGGGCTCTGGGCCCGGGCGAGGTCCCGCTCCCGTGGTCA CTGGCTNCGCCCCAGCACCAGCGCCAG </pre>
Restriction Sites:	Please inquire
ACCN:	NM_002949
Insert Size:	1053 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_002949.2 , NP_002940.2
RefSeq Size:	1052 bp
RefSeq ORF:	597 bp
Locus ID:	6182
UniProt ID:	P52815
Cytogenetics:	17q25.3

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 which forms homodimers. In prokaryotic ribosomes, two L7/L12 dimers and one L10 protein form the L8 protein complex. [provided by RefSeq, Jul 2008]