

Product datasheet for **SC110399**

MRPL42 (NM_014050) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL42 (NM_014050) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL42
Synonyms:	HSPC204; L31MT; L42MT; MRP-L31; MRP-L42; MRP-S32; MRPL31; MRPS32; PTD007; RPML31; S32MT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110399 sequence for NM_014050 edited (data generated by NextGen Sequencing)

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ATGGCTGCTAGCTGCAGTAAAATGGGTGATGTCAAAGAGAACTATCTTGAAACATTTATTT  
CCAGTCCAAAATGGAGCTTTATATTGTGTTTGCATAAATCTACGTATTCTCCTCTACCA  
GATGACTATAATTGCAACGTAGAGCTTGCTCTGACTTCTGATGGCAGGACAATAGTATGC  
TACCACCTTCTGTGGACATTCATATGAACACACAAAACCTATCCCTCGGCCAGATCCT  
GTGCATAATAATGAAGAAACACATGATCAAGTGCTGAAAACCAGATTGGAAGAAAAAGTT  
GAACACCTTGAGGAAGGACCTATGATAGAACAAGTTAGCAAAATGTTCTTTACTACTAAG  
CACCGTTGGTATCCTCATGGACGGTATCACAGATGTCGTAAGAATCTGAATCCTCCAAA  
GACAGATGA
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Clone variation with respect to NM_014050.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014050 unedited
 GTTACGATTATGTNATACGACTTCACTATAGGGCGGNCGCGCAATTCGCACGAGGGTGAG
 AAGCCGTCAAGGAGTAGAAATGGTATGCTTACAAGCAGATTCTAAAAGCAGTTTCTCTT
 CAGAACATCTTTTTTTCATACCACCTTGATAAGCATCTTGAAACACCATGGCTGTAGCTGCA
 GTAAAATGGGTGATGTCAAAGAGAACTATCTTGAAACATTTATTTCCAGTCCAAAATGGA
 GCTTTATATTGTGTTTGTCAATAATCTACGTATTCTCCTCTACCAGATGACTATAAATTTG
 CAACGTAGAGCTTGCTCTGACTTCTGATGGCAGGACAATAGTATGCTACCACCTTCTGT
 GGACATTCATATGAACACACAAAACCTATCCCTCGGCCAGATCCTGTGCATAAATAATGA
 AGAAACACATGATCAAGTCTGAAAACAGATTGGAAGAAAAAGTTGAACACCTTGAGGA
 AGGACCTATGATAGAACAACCTTAGCAAAATGTTCTTTACTACTAAGCACCGTTGGTATCC
 TCATGGACGGTATCACAGATGTCGTAAGAATCTGAATCCTCCAAAAGACAGATGATGCGG
 AGGTTCTGGGGAAATCAAAGAGAAATGTGCCTCATTGGCCATTTGAGAAAATGCAGTCT
 GGTGTATTCAGTAATATATAGTAAAGTAATAATGATAAAATATCTTTTCATATATTAGAA
 TGTGTACTTTTATATAAAGTAATTCTGGATTTGACATTCTCATTAGAAGAACCTATTTT
 CCTTTTTCTTTTCTATTTTAGGNTTCATTTATGTGCCGCTCCCAATTAGACTTTTCC
 ATAGTGCCAAGCCCTACATATCAGTACAACCTCTATAAATACATCAGAAATTCACACTCTA
 TTATTAACGGCCCTTGTGCTAGATA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014050 unedited
 GGACCGGGGAGCGNNTCATAAAGTCGAGAGACGTCTTTTTTTTTTTTTTTTTTTTTTTTT
 TCAGGAAAGCCATGCACATTTTTATTAATCATATTTATACTACTAACAATGCTTGCTGTA
 TGATTAATAAATACTTAAATCACAGTAAACACACAAAAAGAGATGTTTCTCAACTATCAT
 AGGGTTACTTCCCAATAAACCTACTATCAGTTGAAAATATTGTAATGAAAATGCTACC
 CTGTCTTAAATATGCTCAAAACACTTACAGTAGCCTACTGTTTAGCAAAATTATCTAACA
 CGAAGCCCGTTTTATAATAAAGCGTTGAATTTCTGAGGTAATTAATTGATGCCCTACTGA
 ATATGTATGGCTCTGGCACTATGGAAAACGCCTAACTTGGACACCGCCATAACTGAACC
 CCTCTTATCCACTACGAAAACACACAATAGGTTTCTCTAAATGAAAAGGTCAACACCAGA
 ATTCTTTTATTTAAAAGTCCACCTTCTCATCCATGAAAACCTAATTTTATCCTTATCACTT
 CACTATACTTCACCGAATACACCATACTGCTTTTCTCCAATGGCACAGAGGCACATTTT
 TCTTTAATCCCCACAACACCCTACAAACTATCTGTCTTTTGGAGGATTCAAATCTTACA
 ACATCTGAGAAACCGCCATAAGGAATACAAATGGCCGCTTAAAAATAACAAAATTTAG
 CCAAAGCCGTTCTATCTTACGCCCTTCTCAAGGGGCAATTTCTACTCCCAACTGGTTT
 CCAACCTGTTAATTGTTCTCTTTTATATCCCACCAATCGGCCCAAGAAAGCCTCCCG
 TGTAACTATGACTCTACCACAAGGGGACAACACTCTTGTCTCACCTTACTTATCACAC
 CGCTCCCG

Restriction Sites:

NotI-NotI

ACCN:

NM_014050

Insert Size:

1180 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_014050.2](#), [NP_054769.1](#)

RefSeq Size: 2070 bp

RefSeq ORF: 429 bp

Locus ID: 28977

UniProt ID: [Q9Y6G3](#)

Cytogenetics: 12q22

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 protein identified as belonging to both the 28S and the 39S subunits. Alternative splicing results in multiple transcript variants. Pseudogenes corresponding to this gene are found on chromosomes 4q, 6p, 6q, 7p, and 15q. [provided by RefSeq, May 2011]

Transcript Variant: This variant (1) encodes the supported protein. Both variants 1 and 2 encode the same protein.