

Product datasheet for **SC108410**

MRPL43 (NM_032112) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL43 (NM_032112) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL43
Synonyms:	bMRP36a; L43mt; MRP-L43
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108410 sequence for NM_032112 edited (data generated by NextGen Sequencing) ATGACGGCGCGCGGGACTCCGAGCCGCTTCTTGCCAGCGTTCTCCACAACGGACTGGGT CGCTATGTGCAGCAGCTGCAGCGTCTGAGCTTCAGCGTCAGCCGCGACGGCGCCTCGTCT CGCGGCGCCAGGGAGTTCTGTGGAGCGGGAGGTGATCGACTTCGCCCGACGGAATCCAGGG GTCGTAATATATGTAACTCGCGTCCGTGCTGCGTGCCAGAGTAGTGGCCGAATACCTT AACGGGGCTGTGCGGAGGAGAGCATCCACTGCAAGTCGGTCGAGGAGATCTCGACGCTG GTGCAGAAGCTGGCCGACCAGTCGGGCTTGACGTGATCCGCATCCGCAAGCCCTTCCAC ACCGACAACCCTAGCATCCAGGGCCAGTGGCACCCCTTACCAACAAGCCGACCACGTTC CGCGGGCTACGCCCCGAGAGGTTCAAGATCCTGCCCCAGCCAGGTGCAAGCACAGTGA Clone variation with respect to NM_032112.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032112 unedited
 GTTAGNATTTGTATCCGACTCACTATAGGCGGCCGCAATTTCGCACGAGGCTTAGGCTCC
 GCGGCCTCCAAGCTGTAGCTATGACGGCGCGGGGACTCCGAGCCGCTTCTTGCCAGCG
 TTCTCCACAACGACTGGGTGCTATGTGCAGCAGCTGCAGCGTCTGAGCTTCAGCGTCA
 GCCGCGACGGCGCTCGTCTCGCGGCCAGGGAGTTCGTGGAGCGGGAGGTGATCGACT
 TCGCCCCAGCGAATCCAGGGGTCGTAATATATGTAACCTCGCGTCCGTGCTGCGTCCCCA
 GAGTAGTGGCCGAATACCTTAACGGGGCTGTGCGCGAGGAGAGCATCCACTGCAAGTCGG
 TCGAGGAGATCTCGACGCTGGTGCAGAAGCTGGCCGACCAGTCGGGCTTGACGTGATCC
 GCATCCGCAAGCCCTTCCACACCGACAACCTAGCATCCAGGGCCAGTGCGACCCCTTCA
 CCAACAAGCCGACCACGTTCCGCGGGCTACGCCCCGAGAGGTTCAAGATCCTGCCCCAG
 CCCAGGTGCAAGCACAGTGAAGAGTTGCCCCACCAACTGCAGCCCCAGGCTTTGGACTGT
 TACTCCGGTAAAGGTGGTCTTCCCTTTGGGATTCCAAGCCCAGGCAATGGAACCCAT
 CAATGGGCAAGTTGACAGAGTTCTGCTTGGGATAATGAAGAGCTGCCTGTTTCTTTCCA
 GTGCTGCTTCTGGGGCAGTGACCTTGTGAACCACTCATNTTATGCAAGTGGCATCCC
 TAAACCTGAGATGAGGAGACTTCAAGGGTTTTACGGACCCTTGTTTTAATCCANNATGA
 TATATGATCTCNAACANTGAGAGGTCTGAAGGCTGGCTCTGAGAATCCCTGATGTCTAT
 TGGACACCTGACTACGAAGCTTGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_032112 unedited
 AAAACCAAGAAAAAANNCNCCCNCCCCCNANTTTTGACTTTGANCCGCGGNC
 CGCATNCNAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTGGCCTTGGGTAAGTTTATTA
 CCTGTTTTATAATCTGTATTCACACAGATATAAAGTGCCTAGCCCATCACAGCAGAGCT
 CTCGCTAGCTCAGTGGTTGTTCCAATAAGACATCAGGGATTCTTCAGAAGCCAGCCTTCA
 GACCTCTCACTGTGTTTTGAGATCATTATTATCAATTTGGATTTAAAAACAAGGTCCT
 GTAAAAACCTTGAAGTCTTCTCATCTCAGGTTTTAGGGATGCCACTTGCCATAAAATGA
 GTGGTTCACAAGGTCCTGCCCCAGAAGCAGGCACTGGAAAGAAACAGGCAGCTCTTCA
 TTATCCCAAGCAGAACCTCTGTCAACTTGCCCATTTGATGGGTTCCATTTGCTGGGCTTG
 GAATCCCAAGGGGAAGAACCACCTTTACCGGAGTAACAGCCCAAGCCTGGGGCTGCAG
 TTGGTGGGGCAACTCTTCACTGTGCTTGACCTGGGCTGGGGCAGGATCCTGAACCTCTC
 GGGGGCGTATTCGCGGAACGTGGGCGGCTTGTGGTGAAAGGGTGCCACTGGCCCTGAA
 TGCCTAGGTTGTGCGTGTGGAAGGGCTTGCGGTTGCCGATTACGTTCAACCCTGACTGGT
 CCGCCCTCTTCTCGACAGCTGTCAATACCCCTCGACCGACTCCGCTGGATGCCTCT
 CCCTTGTCCTCCACCCCTCAGGTGTTTCGGCCCTTATTTTGGGTCCCCCTCCGGT
 CTCCAAGTTCATAACTTACCTCCCCCGGGTATCCCTGGGGGAAATCCGACAACCCAC
 CCTCCCAACTTTTTGCTCCACTCACACTAGCCCCCTCCTTG

Restriction Sites:

NotI-NotI

ACCN:

NM_032112

Insert Size:

1000 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:	<u>NM_032112.2, NP_115488.2</u>
RefSeq Size:	1016 bp
RefSeq ORF:	480 bp
Locus ID:	84545
UniProt ID:	<u>Q8N983</u>
Cytogenetics:	10q24.31
Domains:	L51_S25_CI-B8
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. This gene and the gene for a semaphorin class 4 protein (SEMA4G) overlap at map location 10q24.31 and are transcribed in opposite directions. Sequence analysis identified multiple transcript variants encoding at least four different protein isoforms. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) encodes isoform a.