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Product datasheet for SC124959

MRPL43 (NM_176794) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	MRPL43
Synonyms:	bMRP36a; L43mt; MRP-L43
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_176794, the custom clone sequence may differ by one or more nucleotides

ATGACGGCGCGCGGGACTCCGAGCCGCTTCTTGGCCAGCGTTCTCCACAACGGACTGGGTCGCTATGTGC
AGCAGCTGCAGCGTCTGAGCTTCAGCGTCAGCCGCGACGGCGCCTCGTCTCGCGGCGCCAGGGAGTTCGT
GGAGCGGGAGGTGATCGACTTCGCCCGACGGAATCCAGGGGTCGTAATATATGTAAACTCGCGTCCGTGC
TGCGTGCCCAGAGTAGTGGCCGAATACCTTAACGGGGCTGTGCGCGAGGAGAGCATCCACTGCAAGTCGG
TCGAGGAGATCTCGACGCTGGTGCAGAAGCTGGCCGACCAGTCGGGCTTGGACGTGATCCGCATCCGCAA
GCCCTTCCACACCGACAACCCTAGCATCCAGGGCCAGTGGCACCCCTTCACCAACAAGCCGACCACGTTC
CGCGGGCTACGCCCCCGAGAGGTTCAGGATCCTGCCCCAGCCCAGGATGCGGCTGAGTTCCTCGGCGAAG
GAGCAGGGCCCTGCTGGTACTCCATTGTTGCTCTGCCTCAGAAGCACATAGCTATTGCCATTCATCCTCC
GCAGCCGGCTGGGCAGTGCCACCAAGCCATTGGACACTGGCCTGAGACTGTCTGCAGTTGCACCGCAGAT
CCTCCTGCCCGGCTGGCCCGACCCAATATCAGTTCAGTCATCCGATCTTCCTTGGGGAAATACCCATTAC
CGTCCTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_176794 unedited
GTTTTGTATACGACTCACTATAGGCGGCCGCGACATTCGCACGAGGTCCCGCCCCCCTCT
CCTCGCTGCTTAGGCTCCGCGGCCTCCAAGCTGTAGCTATGACGGCGCGCGGGACTCCGA
GCCGCTTCTTGGCCAGCGTTCTCCACAACGGACTGGGTCGCTATGTGCAGCAGCTGCAGC
GTCTGAGCTTCAGCGTCAGCCGCGACGGCGCCTCGTCTCGCGGCGCCAGGGAGTTCGTGG
AGCGGGAGGTGATCGACTTCGCCCGACGGAATCCAGGGGTCGTAATATATGTAAACTCGC
GTCCGTGCTGCGTGCCCAGAGTAGTGGCCGAATACCTTAACGGGGCTGTGCGCGAGGAGA
GCATCCACTGCAAGTCGGTCGAGGAGATCTCGACGCTGGTGCAGAAGCTGGCCGACCAGT
CGGGCTTGGACGTGATCCGCATCCGCAAGCCCTTCCACACCGACAACCCTAGCATCCAGG
GCCAGTGGCACCCCTTCACCAACAAGCCGACCACGNNNCCCGCGGGCTACCCCCGGAAAG
GGGTCCAGGATCCTGCCCCAGCCCAGGACACTGGCCTGAGACTGGCTGCAGTTGCACCGC
AGATCCTCCTGCCCCGGCTGGCCCGACCAATATCAANTTCAGTCATCCGATCTTTCTTTG
GGNGAAATACCCATTACCGTCCTGAACCCTTGTCATCCACTACTTGCCTATAGCTNCCAG
AAGTGACAAGACACTTCAATCTNAAAATATGTTTCCTAGTNTATATTCATTGGGCAGTAA
AGGGGTTGTTGAGCACTTAAAAAAAAAAAAAAACTCACTCTANATGGGGCCGCGTCATTA
CTGTTTCTGACAAATCCCCGGGGGGGAATCCCTGGGACCCTTCCCAGGCCTTCTGGCCCC
GGGGAAGTTGCCCTCCATGCCCACAGGCTTGCTATAAAAATTAGTGATCAA

Restriction Sites: NotI-NotI

ACCN: NM_176794

Insert Size: 700 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_176794.1, NP_789764.1

RefSeq Size: 894 bp

RefSeq ORF: 708 bp

Locus ID: 84545

UniProt ID: Q8N983

Cytogenetics: 10q24.31

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 (4) differs in the 3' UTR and has multiple coding region differences, compared to variant 1. This results in a longer isoform (d) with a distinct C-terminus compared to isoform a. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.