

Product datasheet for **SC112323**

MRP63 (MRPL57) (NM_024026) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRP63 (MRPL57) (NM_024026) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRP63
Synonyms:	bMRP63; MRP63
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_024026, the custom clone sequence may differ by one or more nucleotides

ATGTTCTGACTGCGCTCCTCTGGCGCGGCCGCATTCCCGGCCGTCAGTGGATCGGGAAGCACCGGCGGC
 CGCGGTTTCGTGTCGTTGCGGCCAAGCAGAACATGATCCGCCGCTGGAGATCGAGGCGGAGAACCATTA
 CTGGCTGAGCATGCCCTACATGACCCGGGAGCAGGAGCGCGGCCACGCCGCGGTGCGCAGGAGGGAGGCC
 TTCGAGGCCATAAAGGCGGCCCACTTCCAAGTTCCCCCGCATAGATTATTGCGGACCAGCTCGACC
 ATCTCAATGTCACCAAGAAATGGTCCTAA


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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024026 unedited
 GCTGATTTTGTAAATACGACTTCACTATAGGGCGGCCGCGATTTCGGCACGAGGCAGCGCGG
 CAGGCACCATGTTCTGACTGCGCTCCTCTGGCGCGGCCGCGATTCCCGGCCGTCAGTGGA
 TCGGGAAGCACCAGCGGCCGCGGTTCTGTGCTGTGCGCGCCAAGCAGAACATGATCCGCC
 GCCTGGAGATCGAGGCGGAGAACCTTACTGGCTGAGCATGCCCTACATGACCCGGGAGC
 AGGAGCGCGGCCACGCCGCGGTGCGCAGGAGGGAGGCCTTCGAGGCCATAAAGCGGCCG
 CCACCTTCCAAGTCCCCCGCATAGATTCACTGCGGACCAGCTCGACCATCTCAATGTCA
 CCAAGAAATGGTCTTAATCCTGAGTCGTACCCTTGGATTTTATGGATCACGGAGCTGAC
 CATCTTTACCTGGTCTTGAAGTGAAGAACTGTAGCTTGTGTGAAATGAGCCTTTGGAC
 CAGTCTTTATTAACAAACAAACATGAGTAGTCTGCATATCGAATATCTAGAGCTCTAA
 ACCCCCCAATACTTAAAGTCTAATTGCTGCTCCTGTGGTTTCATTACTCTGATAGGAAGA
 TAGGGGATTTCTCAGTCACAGATGATATTTTGAAGGACAAGCTGGCATTAAAGCCCCAT
 GATTTGAGGTCTTTGCTTAAGTTTGAAGTACTTATGAGGGGGCTTTATCATGCCACATT
 AATTTGCCTTACCTAACAAATGCCCAAAATGAAAGAAATTTGACCTTTTATTTAAACA
 TACCTCTATACACTTTCCCGGATTTACTACTTAAATTGGCCATTTAAGCGAAGTAAAG
 AGCCGGTGCCTGTTTACCCCTCTGTATCCAACCTTTTGTGTTCCCTGCCGTGTTTCC
 CATTCTTTCTTAGTCCCCACCACCCATCCCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024026 unedited
 TTTTNNNNNNNNNTTTTGAAGTGAACCGCGNCCGCATNCTANGATCGAGTTTTTTTTT
 TTTTTTTTTGAGAGCAGTCTCCAGCTGGAGTGCAGCGGCATGCTCTCGGCTCACTGCAA
 CCTCCGCTTCATTGCAACCTCTGCCTCTGAGGTTGAGCGATCCTCCACCTCAGCGTCC
 CAAGTAGCTGGGATTGCAAGCCTGCACCAACATACCCAGCTAATTTTTTTGTATTAGTA
 GAGACGGGTTTTATCACCTTGGCCAAGCTGGTCTTGAAGTCTGACCTCAAGTATCCGC
 CCGCCTTGGACTCCTAAAGTGTGGGATTACAGGCGTGAGCCACCGCACCCGGCCTCTTT
 TACTTCGCTTAAATGTCAATTTTAGTAGTAAATCCCGGAAATGTTTTTAGGAGTATG
 TTTAAGTGAAGCTCATATTTCTTTTCAATTTTGGGCAATCTTAAGGTAAGCAAACTA
 AATGTGCATGATAAAGCCCCATCAAGTATCTCATACTTAAAGCAAGACCTCAAATCATT
 GTGGCTTTATTGCAGCTTTCCTTCAAATATCATCTGTGACTGAGGAAATCCCTATCTTCC
 TATCAGACTTATGAACCAAGACAGGCATTAAGTCTTTAGTTTTGGGGGTTTAAAGCTC
 TGAAATTCAAATGCAGCTACTCATGTTGGGTGGTTAAAAAAGACTGGTCCAAGCCTCATT
 TCCACAAGCTACAATTTTCAATTTCCACGACCGGTAAAAAAGGCCACCCCGGACCTTAA
 ATCCAGGGGGACAACCCGGATTGGACCTTCTTGGGAACATTAGAAGGCCAACTGGCCCC
 AATAATCTTCCGGGGGACCTTGAAGGGGGCCCTTTATGGCCAAAGGCCCTTCGCC
 ACCGGGGGGGCCGCCCTCTTCCCGTAATGAAGGCTTCCAAC

Restriction Sites:

NotI-NotI

ACCN:

NM_024026

Insert Size:

870 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_024026.4](#), [NP_076931.1](#)

RefSeq Size: 2671 bp

RefSeq ORF: 309 bp

Locus ID: 78988

UniProt ID: [Q9BQC6](#)

Cytogenetics: 13q12.11

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 which belongs to an undetermined ribosomal subunit and which seems to be specific to animal mitoribosomes. Pseudogenes corresponding to this gene are found on chromosomes 1p, 1q, 3p, 5q, 8q, 14q, and Y. [provided by RefSeq, Jul 2008]