

Product datasheet for SC107191

MRPL32 (NM_031903) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL32 (NM_031903) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL32
Synonyms:	bMRP-59b; HSPC283; L32mt; MRP-L32
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107191 sequence for NM_031903 edited (data generated by NextGen Sequencing) ATGGCGCTGGCCATGCTGGTCTTGGTGGTTTCGCCGTGGTCTGCGGCCCGGGAGTGCTT CGAAACTACTGGGAGCGACTGCTACGGAAGCTTCCGCAGAGCCGCGGGCTTTCCAGT CCTCCGTGGGGACCAGCATTAGCAGTACAGGGCCAGCCATGTTTACAGAGCCAGCAAAT GATACCACTGGAAGTAAAGAGAATTCAGCCTTTTGGACAGTATCTTTGGATGGCAGCT CCCAAAAATAGACGCACCATTGAAGTTAACCGGTGTAGGAGAAGAAATCCGCAGAAGCTT ATTAAAGTTAANAACAACATAGACGTTTGTCTGAATGTGGTCACCTGAAACAGAAACAT GTCCTTTGTGCCTACTGCTATGAAAAGGTGTGCAAGGAGACTGCAGAAATCAGACGACAG ATAGGGAAGCAAGAAGGGGGCCCTTTTAAGGCTCCCACCATAGAGACTGTGGTGCTGTAC ACAGGAGAGACACCGTCTGAACAAGATCAGGGCAAGAGGATCATTGAACGAGACAGAAAG CGACCATCCTGGTTCACCCAGAATTGA Clone variation with respect to NM_031903.2 312 g=>n;483 g=>a


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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_031903 unedited
AATTAAAAATTGAACACGACTCATATAGCGGACGCGAATTGGACGAGGGGAAAAGGCGC
TGGCCATGCTGGTCTTGGTGGTTTCGCCGTGGTCTGCGGCCCGGGAGTGCTTCGAACTA
CTGGGAGCGACTGCTACGGAAGCTTCCGAGAGCCGCGGGCTTTCCAGTCTCCCGTG
GGGACCAGCATTAGCAGTACAGGGCCAGCCATGTTTACAGAGCCAGCAAATGATACCAG
TAGACGCACCATTTGAAGTTAACCGGCGTAGGAGAAGAAATCCGAGAGCCTTATTAAG
TTAAGGTAATGCATTGATTTTTGTGGGTGTGCTTTTCTCTAAGTCTCCATTGAATAAGC
TCATGGTCCCCTATAGCCTAGGAATAAATTACTTCTCAGACTATATGTGCCTACTTT
CCTCTGGCCTAAATGAAATACCAGTATTCTCATTTATATACATAATGAGAAGGCTAGAGC
CTGCTGTCTTTAGCCTGAGTATTAGAAACACAGCCAGGAAGGAGTGAGCTTGGAGACT
GGGACCGGAACAGGCTGTGAAGTGCCTACATGACTTTACGAAGTGAAGCTGGGTCAAC
TTTGAGCTGTGTGAGGCTGAAGTACCGAAGAGATACCCTACCTATTGCACAACCTT
AAAATTAAGGGCTTGAAGCCGTAGGCTATCCTGAAACCTTTCGGTTTCCACACCCCTTC
CCACCACCGGTCTAATTTGTTTAGCATTTTCTACACAAACACCATGTAAGTAGACCTCTT
ACACTAGTCCCTCTATTGCTTAACACTCAATACAGGGTCAAAAAGGGAAACTACAGGCGC
CTATGGGTAGATAAACCACACCATAGCCTATAAGCCTCCCCAGCAAAAAAACA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_031903 unedited
CCCAAATCTTGNCCGCGGCCGCAATCTACGAGCCGCTTTTTTTTTTTTTTTTGCTATG
AATTTTAAATTTTTATTTTTGTTCTGGAAATTTATGTTTACTTAAACCTTGATATA
ATAGAAACATAATCCATTGAGCCTTTGGATAAACAAAATTTTCGGAGTTTACTCATAATA
TATTCTTCAAATTATCCACACAAAACCTGCTTAGAAAGAATGTGTTAACTATACTGATG
ATTTAAAAACAAGCACAACAACGTAAAGAATCTTCCTCTATTTACAGGAGAAATGATTAC
TGTGAAGTTATCCTTTTAAATCTTTGGTGTCAATTCTGGGTGAACAGGATGGTCGCTT
TCTGTCTCGTTCAATGATCCTCTTGCCCTGATCTTGTTTACAGCGGTGCTCTCCTGTGTA
CAGCACACAGTCTCTATGGTGGGAGCCTTAAAGGGCCCCCTTCTTGCTTCCCTATCTG
TCGTCTGAATTTGCAGTCTCCTTGACACCTTTTCATAGCAGTAGGCACAAAGGACATG
TTTCTGTTTCAGGTGACCACATTCAGGACAAACGTCTATGTTGTTCTTTAAACAATAAA
CAAAAACGTATTTTAAATGAGGCAATATAACGAACAAATAACCACTGACAGGAGCAATG
CTTACATTTTAACTTTCTTAGGATGTTTACAGGCTACATGAGGTATCATACACCATCCAGT
TTCACCTCACTTTTAAACAGGAAGACTGAAGACCAGCACACTGTGTTTGAATTAGAGAAAAC
TAGTACTAGAATCCGCCAACCTGAATCTGGTATCTTTATTAACACAGCGCTGTGTTAT
GTAAAAAGAAAAAGAAAACCTTTTCCCTACTCCCAACTAAAATCACAAAGGAAATT
GCCACCTAAGG

Restriction Sites:

NotI-NotI

ACCN:

NM_031903

Insert Size:

3110 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_031903.1](#), [NP_114109.1](#)

RefSeq Size: 903 bp

RefSeq ORF: 567 bp

Locus ID: 64983

UniProt ID: [Q9BYC8](#)

Cytogenetics: 7p14.1

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 that belongs to the L32 ribosomal protein family. A pseudogene corresponding to this gene is found on chromosome Xp. [provided by RefSeq, Jul 2008]