

Product datasheet for **SC103729**

MRPL32 (AK090551) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL32 (AK090551) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL32
Synonyms:	bMRP-59b; HSPC283; L32mt; MRP-L32
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AK090551, the custom clone sequence may differ by one or more nucleotides

ATGGCGCTGGCCATGCTGGTCTTGGTGGTTTCGCCGTGGTCTGCGGCCCGGGGAGTGCTTCGAACTACT
GGGAGCGACTGCTACGGAAGCTTCCGCAGAGCCGGCCGGGCTTTCCAGTCCTCCGTGGGGACCAGCATT
AGCAGTACAGGGCCAGCCATGTTTACAGAGCCAGCAAATGATACCAGTGGAAAGTAAAGAGAATTCCAGC
CTTTTGGACAGTATCTTTTGGATGGCAGCTCCCAAAATAGACGCACCATTGAAGTTAACCGGTGTAGGA
GAAGAAATCCGCAGAAGCTTATTAAGTTAAGGTAATGCATTGA



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5' Read Nucleotide Sequence:

>OriGene 5' read for AK090551 unedited
 GGGGTGCACCATATGTAATACGACTCACTTATAGGGCGGCCGCGATTCCGGCAGCAGGCC
 GGGGCGGTCTTCCGCAGGAAAAGCGCTGGCCATGCTGGTCTTGGTGGTTTCGCCGTGGT
 CTGCGGCCCGGGAGTGCTTCGAACTACTGGGAGCGACTGCTACGGAAGCTTCCGCAGA
 GCCGGCCGGGCTTTCCAGTCTCCGTGGGACCAGCATTAGCAGTACAGGGCCAGCCA
 TGTTTACAGAGCCAGCAAATGATACCAAGTGAAGTAAAGAGAATTCCAGCCTTTTGGACA
 GTATCTTTTGGATGGCAGCTCCCAAAAATAGACGCACCATTTGAAGTTAACCGGTGTAGGA
 GAAGAAATCCGCAGAAGCTTATTAAGTTAAGGTAATGCATTGATTTTTGTGGGTGTGCT
 TTCTCTCAAGTCTCCATTGAATAAGCTCATGGTAGATTCTATAGCCTAGGAATAAATT
 ATTCTCAGATTATATGTGTCTACTTTCTCTGGCCTAAATGAAATACAGTATTCTCATT
 TATACATAATGAGAAGGCTAGAGCCTGCTGCTCTAGCCTGAGTATTAGAAACAGATC
 AAGGAAGGAGTGAGTTTGGAGACTGGGCAAGGAACGAGGCTGTGAGGTGCCTACATGACT
 TCTGAATTGTGAGCTGTGTCAGTCTTGAGCTGTGTGAGTTTGAACACAGATGAGTAA
 CATNCTAACTATGGCAGAGCCTAGAATAAAGCTAGAAGCAGTANGTATACTGAATCTTGG
 GGTTTACAAGCCNTTACATATTTGTTTATTTTTTATCATTTTCCACANAATACCATGA
 AAGGAAAACCTNAGATAAGTNATATTATTAGCTAACAACCAATTAAGTGTCTATGATGT
 ATCTNCAANGCCCTNATGTTTATTATATCTCATCATC

3' Read Nucleotide Sequence:

>OriGene 3' read for AK090551 unedited
 NNNNCCGTTTCAGCATGNNACCGCGCCGCATNCTAGNGATCGGTTTTTTTTTTTTTTTT
 TTTCAAACCTATATCTAGGAATAAGTTGATAAATCTTTTAAATATAAAATAGAAACATTA
 TAACCTCTAAAAGATTTATCACTTATTCTAGATATAGGTTTGAAAGAAAATACAAAGAA
 AAATACTAAACAGGATCATTAAAGAAGCTTTAAACAGTTGATAAGATTATATACTAACA
 TTTGTGAGGCAGATAACAAAAGATTTCTTTTCTGAAAGGAAGAAAGAGGCTTGTATAT
 TACTTGCCTAACCATATTCTCATTTTGCTCCACTACTGGAACCTGGATTGCATGCACAAC
 TGAAGGTATGAAGACACCCACAGTCAGCTGGTCTTCTTTCGTGATCAAAGTACCAACA
 TAACACACTATATACCGTATGTAAACAGAAAATAATTCAAGGAAGAAAATAAATGCACAGG
 ATAAGAATAATCCCTCAGAATAAATGCGATCAGGGAAGTCACATAATAGATCAGTGCAA
 GATCTCATTTCTAAAATCTTACGTCCTCTTGAGCAAATTTATGAATTACTGTAAGTCTTA
 AGTAATAAAGTGTTCAGTTCTACATTTAAGTTCAGCCCCAACCATCACTCAATAATA
 CTTTCTGGCTTAAGTTCTAAGGTTTTGCTTAACAGAATGTGGATGCTTATGAAAGTCAGC
 TTTCTGTTCTCGAGTTTCATCTGTATGGTGTGCTGTTGTGGAACGCCATGAAGTAAACA
 GTAAGTGAATCCTAAGTGTAAACCCCTACATGAACAGATCAGAGGTAATACACACTGG
 TAATTTTTCTTTACTAGATCAATGAAAACC

Restriction Sites:

NotI-NotI

ACCN:

AK090551

Insert Size:

1970 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>AK090551.1</u> , <u>BAG52183.1</u>
RefSeq Size:	2734 bp
RefSeq ORF:	324 bp
Locus ID:	64983
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]