

Product datasheet for **SC120360**

MRPL39 (NM_080794) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL39 (NM_080794) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL39
Synonyms:	C21orf92; L5mt; L39mt; MRP-L5; MRPL5; MSTP003; PRED22; PRED66; RPML5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_080794, the custom clone sequence may differ by one or more nucleotides

ATGGAGGCGCTGGCCATGGGTTCCCGGGCGCTGCGGCTCTGGCTGGTCGCACCCGGTGGCGGGATCAAAT
 GGAGATTTATAGCAACATCGCCAGCTTCTCAGCTGTACCGACAGAATTGACAGAAATGCGGAATGATCT
 CTTTAATAAAGAGAAAGCCAGGCAGTTATCATTAACTCCCCGAAGTGAAGATAGAAGTTAAGCATGTT
 GGGAAACTGACCCCGGTACTGTCTTCGTGATGAATAAAACATTTCAACTCCCTACAGTTGTGCCATGC
 ATTTAAGCGAGTGGTATTGCAGGAAGTCCATTCTGGCTCTGGTGGATGGACAGCCTTGGGACATGTATAA
 GCCTTTAACAAGTCTGTGAAATTAATTTCTTACTTTCAAAGATTGTGATCCAGGAGAAGTGAATAAG
 GCATATTGGCGTTCCTGTGCTATGATGATGGGCTGTGTGATAGAGAGGGCATTCAAAGATGAATATATGG
 TCAATTTGGTCAGAGCTCCAGAAGTTCCTGTAATTTCTGGTGCCTTCTGTTATGACGTAGTTTTGGATAG
 CAACTTGATGAGTGGATGCCAACAAAAGAGAAGTACGTTCTTCACAAAAGATGCTCATGCTTTAATT
 TATAAAGATCTTCCATTTGAACTCTGGAAGTTGAAGCAAAAGTGGCATTGGAAATATTTCAACACAGCA
 AGTACAAAGTAGATTTATAGAAGAGAAGGCATCTCAGAACCTGAGAGAATAGTCAAGCTACACAGAAT
 AGGTGACTTCATTGATGTGAGTGAGGGCCCTCTTATTCCAAGACAAGTATTTGTTTCCAGTATGAAGTA
 TCAGCAGTTCACAATCTTCAACCCACCCAGCCAAGTCTCATACGAAGATTCCAGGGCGTGTCTTTACCTG
 TTCCTTAAGAGCACATTTTACAATATGGGATAAGCTATTGGAAGATCTCGGAAATGACTCCATTTC
 CATTCTCCTTCTATTTACTACGCAGTCATTCTTCACTACCTCGCTGAGTCGTACCTCTCCATGGAACA
 GTCTCAGAGTAA


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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_080794 unedited
 CTCACTATAGGCGGCCGGAATTCGCACGGGGTCCCGGGCGCTGCGGCTCTGGCTGGTC
 GCACCCGGTGGCGGGATCAAAATGGAGATTTATAGCAACATCGCCAGCTTCTCAGCTGTCA
 CCGACAGAATTGACAGAAATGCGGAATGATCTCTTTAATAAGAGAAAGCCAGGCAGTTA
 TCATTAACCTCCCGAAGTGAAGATAGAAGTTAAGCATGTTGGGAAAGTGAACCCGGT
 ACTGTCTTCGTGATGAATAAAAAACATTTCAACTCCCTACAGTTGTGCCATGCATTTAAGC
 GAGTGGTATTGCAGGAAGTCCATTCTGGCTCTGGTGGATGGACAGCCTTGGGACATGTAT
 AAGCCTTTAACAAGTCCTGTGAAATTAATTTCTTACTTTCAAAGATTGTGATCCAGGA
 GAAGTGAATAAGGCATATTGGCGTTCCTGTGCTATGATGATGGGCTGTGTGATAGAGAGG
 GCATTCAAAGATGAATATATGGTCAATTTGGTCAGAGCTCCAGAAGTTCCTGTAATTTCT
 GGTGCCTTCTGTTATGACGTAGTTTTGGATAGCAAACTTGATGAGTGGATGCCAACAAAA
 GAGAACTTACGTTCTTCACAAGGATGCTCATGCTTTAATTATAAAGATCTTCCATTGGA
 AACTCTGGAAGTTTGAGCAAAAGTGGCATTGGAATATTTAACACAGCAAGTACAAAGTA
 GATTTATAGAAGAGAAGCATCTCANAACCCTGAGAGATAGTCAAGCTACACAGATAGGTG
 ACTTCTTGATGTGAGTGAAGGCCCTCTTTCCAGGACAGNATTTGTTTTCAGNATGAAAT
 GTCACCATTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_080794 unedited
 NGGAACATTATGTACCGCGCCGATTCTANGATCGGTTTTTTTTTTTTTTTTTATATT
 TAAACATTTATTTTATTATACATATTTAAATTTAGAAAGTTATTAGGTAGATGTACAT
 TCCTCTGTGCTTTACTTTGATCTTCAGTTACCTGTAAAAACATGAATATCTTTACTTTC
 CTAATAAACACTTTCAGTTTTACCCTTCACCCACCATTTTAAATCATTCCACAGCCCTCT
 TATAATGACCCTTTATCTTTCCCTTAAATAGTAGAAAAGAAAGTTAGGTAAGAAGAAAG
 ATTTAAAGGCCAAGTAACCAATATAAATTATCAGGTAAAGAACAATAATTCCATTCAAAA
 ATATAATCTAAGGCATATTATACCTAGGCTTCTCAAGTTGGCCATTTTACTTTTCAGCCG
 TAAACAAAAATCATTAGTGTAAAGAAAAACACCTGAAGTGCTGTAAACAGCTATTTTAA
 TCAGTTTATTTTCTTTGGAGTATAATTCCATTTAGAATAGAACATATTACAGATTTAGT
 CTAAATAGATATCTATGTCCCTATTTCTATTCTGTGCTCACTCAGACTCATCAACAGA
 CATGGCTAAATCTGAATCAACACCCCAAAACCTGTCTACCTGCATCATCTATCTTGGT
 AAAGGGCTCCACCCAGATACCTAAGGACAGCATTCAAGAATTCATCTCTTCTTCTACC
 TGCATATTCCATCAACAGTCTACTAATTACGCTAAGTTAACTCTCACAGTCATTCTCC
 CTATCGCGGCTGAACTTTAGGACCTCATTCTCTTCTATCCCCCTAACAGAACTCTTGGCT
 TAAGTCACAGCTATATCCCATGCTACCCCTAGAATGAGCTTTTTAAACAGAATAGCTGAT
 CAACAAGTC

Restriction Sites:

NotI-NotI

ACCN:

NM_080794

Insert Size:

4700 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_080794.2, NP_542984.2</u>
RefSeq Size:	1171 bp
RefSeq ORF:	1062 bp
Locus ID:	54148
UniProt ID:	<u>Q9NYK5</u>
Cytogenetics:	21q21.3
Domains:	TGS
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. Two transcript variants encoding distinct isoforms have been described. A pseudogene corresponding to this gene is found on chromosome 5q. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (2), also known as MRP-L5V1 or the heart-specific transcript variant, includes an alternate segment, when compared to variant 1, that causes a frameshift. The encoded isoform (b) has a distinct and longer C-terminus, compared to isoform a.