

Product datasheet for SC126679

MRPL20 (NM_017971) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL20 (NM_017971) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL20
Synonyms:	L20mt; MRP-L20
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC126679 sequence for NM_017971 edited (data generated by NextGen Sequencing)

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ATGGTCTTCCTCACCGCGCAGCTCTGGCTGCGGAATCGCGTCACCGACCGCTACTTTCGG
ATCCAGGAGGTGCTGAAGCACGCGCAGGCACTTCCGGGAAGGAAAAATCGCTGCTACAGG
TTGGCGGTCAGAACCGTGATTGAGCCTTTGTGAAATGCACCAAAGCCCGATACCTGAAG
AAAAAGAACATGAGGACCCTCTGGATTAATCGAATTACAGCTGCTAGCCAGGAACATGGA
CTGAAGTATCCAGCGCTCATTGGGAATTTAGTTAAGTGCCAGGTGGAGCTCAACAGGAAA
GTCCTAGCGGATCTGGCCATCTACGAGCCAAAGACTTTCAAATCTTTGGCTGCCTTGGCC
AGTAGGAGGCGACACGAAGGATTTGCTGCTGCCTTGGGGGATGGGAAGGAACCTGAAGGC
ATTTTTTCCAGAGTGGTGCAGTACCACTGA
  
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Clone variation with respect to NM_017971.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_017971 unedited
GACCCGAATTCGGCAGGAGCGGCGCTGCGCGTGCTTTGTTGAGTGTTCCGGACGCGGG
CCTGCAGGCGCCATGGTCTTCTCACCGCGCAGCTCTGGCTGCGGAATCGCGTCACCGAC
CGCTACTTTCGGATCCAGGAGGTGCTGAAGCACGCCAGGCACTTCCGGGAAGGAAAAAT
CGCTGCTACAGGTTGGCGGTCAGAACCGTGATTGAGCCTTTGTGAAATGCACCAAAGCC
CGATACCTGAAGAAAAAGAACATGAGGACCCTCTGGATTAATCGAATTACAGCTGCTAGC
CAGGAACATGGACTGAAGTATCCAGCGCTCATTGGGAATTTAGTTAAGTGCCAGGTGGAG
CTCAACAGGAAAGTCTAGCGGATCTGGCCATCTACGAGCCAAAGACTTTCAAATCTTTG
GCTGCCTTGGCCAGTAGGAGGCGACACGAAGGATTTGCTGCTGCCTTGGGGGATGGGAAG
GAACCTGAAGGCATTTTTTCCAGAGTGGTGCAGTACCACTGAGGACTGTTGCTGTATTGA
TTAGGAAAAGAGACAGAGTAATTTGCAGTTTGTGTTGATTTATACTTTTGTATCTACAA
CCCAATAACAGACATGAGGGATGGCCCTGTCTCTCTGGGACAGAGCCTCAAAGATGATGT
CCATGTTTTTGTGTAATGAACTCAAACTCTTCAAAAAAAAAA
  
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_017971 unedited <pre>GCTATGGACCCGCGGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTGAAAAGGGTTTGAGTTTCATTACACAAAACATGGACATCATCTTTGAGGC TCTGTCCCAAAAAGACAGGGCCATCCCTCATGTCTGTTATTGGGTTGTAGATAAACAAAA GTATAAATCAAACAACTGCAAATTAATCTGTCTCTTTTCCTAATCAATACAGCAACAGT CCTCAGTGGTACTGCACCACTCTGGAATAATGCCTTCAGGTTCTTCCCATCCCCAAG GCAGCAGCAAATCCTTCGTGTGCGCTCCTACTGGCCAAGGCAGCCAAAGATTTGAAAGTC TTTGGCTCGTAAATGGCCAAATCCGCTAGGACTTTCCTGTTGAGCTCCACCTGGCACTTA ACTAAATTCCTAATGAGCGCTGGATACTTCAGTCCATGTTCTGCTAGCAGCTGTAATT CGATTAATCCAGAGGGTCTCATGTTCTTTTCTTCAGGTATCGGGCTTTGGTGCATTTT ACAAAGGCTCGAATCACGGTTCTGACCGCCAACCTGTAGCAGCGATTTTCTTCCCCGG AAGTGCCTGGCGTGCTTCAGCACCTCCTGGATCCGAAAGTAGCGGTGGTGACGCGATT CGCAGCCAGAGCTGCGCGGTGAGGAAGACCATGGCGCTGCAGGCCCCGCGTCCGACACT TAACAACGCACGCGCAGCGCGTCTCTGTCGCAATTCGCGGCCGCCCTATAGTGAGTCG TATTACAAATTCGACGGTTCACTAAACGAGCTCTGCTATATAGACCTNCCACCGTAACG CCTACCGGCCATTTCGTCACGGGGCCGNGGTATTACGACATTNTTGAAGTCCCNCGT GATTTTGGTGCCAAANACACTTCCCATGACGTCATGGGTGGAGACTGGGAATCCCCGGA GTCAACGNTTCCC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_017971
Insert Size:	800 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_017971.2</u> , <u>NP_060441.2</u>
RefSeq Size:	705 bp
RefSeq ORF:	450 bp
Locus ID:	55052
UniProt ID:	<u>Q9BYC9</u>
Cytogenetics:	1p36.33
Domains:	Ribosomal_L20

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. A pseudogene corresponding to this gene is found on chromosome 21q. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2016]

Transcript Variant: This variant (1) encodes the longer isoform (1).