

Product datasheet for **SC126866**

MRPL20 (AB049644) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL20 (AB049644) 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:	>NCBI ORF sequence for AB049644, the custom clone sequence may differ by one or more nucleotides

ATGGTCTTCCTACCGCGCAGCTCTGGCTGCGGAATCGCGTCACCGACCGCTACTTTCGGATCCAGGAGG
TGCTGAAGCACGCCAGGCACTTCCGGGGAAGGAAAAATCGCTGCTACAGGTTGGCGGTGAGAACCGTGAT
TCGAGCCTTTGTGAAATGCACCAAAGCCCGATACCTGAAGAAAAAGAACATGAGGACCCTCTGGATTAAT
CGAATTACAGCTGCTAGCCAGGAACATGGACTGAAGTATCCAGCGCTCATTGGGAATTTAGTTAAGTGCC
AGGTGGAGCTCAACAGGAAAGTCTAGCGGATCTGGCCATCTACGAGCCAAAGACTTTCAAATCTTTGGC
TGCCTTGGCCAGTAGGAGGCGACACGAAGGATTTGCTGCTGCCTTGGGGATGGGAAGGAACCTGAAGGC
ATTTTTCCAGAGTGGTGCAGTACCACTGA



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5' Read Nucleotide Sequence:	>OriGene 5' read for AB049644 unedited <pre> GTCACAATTGTATACGACNACTATAGGCGGCACGCGAATTCGCACCAGGCAATATGGCAG CGGCGCTGCGCGTTCGTTGAGTGTTTCGGGACGCGCGCTGCAGGCGCCATGGTCTTC CTCACCAGCGCAGCTCTGGCTGCGGAATCGCGTCACCGACCGCTACTTTCGGATCCAGGAG GTGCTGAAGCACGCCAGGCACTTCCGGGAAGGAAAAATCGCTGCTACAGGTTGGCGGTC AGAACCGTGATTGAGCCTTTGTGAAATGCACCAAGCCGATACCTGAAGAAAAAGAAC ATGAGGACCCCTCTGGATTAATCGAATTACAGCTGCTAGCCAGGAACATGGACTGAAGTAT CCAGCGCTCATTGGGAATTTAGTTAAGTGCCAGGTGGAGCTCAACAGGAAAGTCCTAGCG GATCTGGCCATCTACGAGCCAAAGACTTTCAAATCTTTGGCTGCCCTGGCCAGTAAGATG CGACACGAAAGATTTGCTGCTGCCTTGGGGGATGGGAAGGAACCTGAAGGCATTTTTTCC AGAGTGGTGCAGTACCACTGAAGACTGTTGCTGTATTGATTAAGAAAAGAGACAGAGTAA TTTGCACTTAGTTAGATTATACTTTTGTATCTACAACCAATAACAGACATGATGGA TGGCCCTGTCTCTCTGGACAGAGCCTCACAGATGATGCCATGTTTTGAGTGAATGAAA CTCAAACACTCTCANNNNNNAAAAANNNNNNNNNAANNAANNAANNAANNAANNAANNA AACCTCGACTCTAGATGGCGGCCGCGTCATAGCTGTTTCTGAAAGATCCCCGGTGGA TCCTGTGACCCCTCCCATGCCTCTCCTGGCCTTGGATGTGCCCTCCAGTGCCNCCAGC CTTGCCATAAAATTAAGTGCATATCTGGCGACTAGAGCCTTATAATTATAGGAGAGGGG A </pre>
Restriction Sites:	NotI-NotI
ACCN:	AB049644
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:	AB049644.1 , BAB40849.1
RefSeq Size:	641 bp
RefSeq ORF:	450 bp
Locus ID:	55052
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]