

Product datasheet for **SC110781**

MRPL10 (NM_145255) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL10 (NM_145255) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL10
Synonyms:	L10MT; MRP-L8; MRP-L10; MRPL8; RPML8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110781 sequence for NM_145255 edited (data generated by NextGen Sequencing) <pre> ATGGCTGCGGCCGTGGCGGGGATGCTGCGAGGGGGTCTCCTGCCCCAGGCGGGCCGGCTG CCTACCCCTCCAGACTGTCCGCTATGGCTCCAAGGCTGTTACCCGCCACCGTCGTGTGATG CACTTTTCAGCGGCAGAAGCTGATGGCTGTGACTGAATATATCCCCCGAAACCAGCCATC CACCCATCATGCCTGCCATCTCCTCCCAGCCCCCACAGGAGGAGATAGGCCTCATCAGG CTTCTCCGCCGGGAGATAGCAGCAGTTTTCCAGGACAACCGAATGATAGCCGTCTGCCAG AATGTGGCTCTGAGTGCAGAGGACAAGCTTCTTATGCGACACCAGCTGCGGAAACACAAG ATCCTGATGAAGGTCTTCCCAACCAGGTCCTGAAGCCCTTCTGGAGGATTCCAAGTAC CAAAATCTGCTGCCCCTTTTGTGGGGCACAACATGCTGCTGGTCAGTGAAGAGCCCAAG GTCAAGGAGATGGTACGGATCTTAAGGACTGTGCCATTCTGCCGCTGCTAGGTGGCTGC ATTGATGACCATCCTCAGCAGGCAAGGCTTTATCAACTACTCCAAGCTCCCCAGCCTG CCCCTGGTGCAGGGGGAGCTTGTAGGAGGCCTCACCTGCCTCACAGCCCAGACCCACTCC CTGCTCCAGCACCAGCCCTCCAGCTGACCACCCTGTTGGACCAGTACATCAGAGAGCAA CGCGAGAAGGATTCTGTCATGTCGGCCAATGGGAAGCCAGATCCTGACACTGTTCCGGAC TCGTAG </pre>

Clone variation with respect to NM_145255.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_145255 unedited <pre> NGTGTTACAATTGTATACGACTCACTATAGGCGGCCGGAATTCGCACCAGGTCCATTCT TCCGGTGGAGATGGCTGCGGCCGTGGCGGGGATGCTGCGAGGGGGTCTCCTGCCCCAGGC GGGCCGGCTGCCTACCTCCAGACTGTCCGCTATGGCTCCAAGGCTGTTACCCGCCACCG TCGTGTGATGCACTTTCAGCGGCAGAAGCTGATGGCTGTGACTGAATATATCCCCCGAA ACCAGCCATCCACCATCATGCCTGCCATCTCCTCCCAGCCCCCACAGGAGGAGATAGG CCTCATCAGGCTTCTCCGCCGGGAGATAGCAGCAGTTTTCCAGGACAACCGAATGATAGC CGTCTGCCAGAATGTGGCTCTGAGTGCAGAGGACAAGCTTCTTATGCGACACCAGCTGCG GAAACACAAGATCCTGATGAAGGTCTTCCCAACCAGGTCTGAAGCCCTTCTGGAGGA TTCCAAGTACCAAAATCTGCTGCCCTTTTGTGGGGCACAACATGCTGCTGGTCAGTGA AGAGCCCAAGGTCAAGGAGATGGTACGGATCTTAAGGACTGTGCCATTCTGCCGCTGCT AGGTGGCTGCATTGATGACACCATCCTCAGCAGGCAGGGCTTTATCACTACTCCAAGCT CCCCAGCTGCCCTGGTGCAGGGGGAGCTTGTAGGAGGCCTCACCTGCCTCACAGCCCA GACCCACTCCCTGCTNCAGCACCAGCCCTCCAGCTGACCACCCTGTTGGACCAATACAT CAGAGAGCAACGCGAGAAGGATTCTGTATGTCNGCCAATGGGAAGCCAGATCCTGACAC TGNTTCGGAATCGTAGCCAGCCTGTNTAGCCAGCCCTGCGCATAAATACACTCTGCGTAT GGNCTGTGCTCTCCTCATGGGACATGTGG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_145255
Insert Size:	1700 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_145255.2 , NP_660298.2
RefSeq Size:	1750 bp
RefSeq ORF:	786 bp
Locus ID:	124995
UniProt ID:	Q7Z7H8
Cytogenetics:	17q21.32

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. Sequence analysis identified three transcript variants that encode two different isoforms. A pseudogene corresponding to this gene is found on chromosome 5q. [provided by RefSeq, Nov 2010]

Transcript Variant: This variant (1) is the predominant transcript.