

Product datasheet for **SC101195**

MRPL27 (NM_148571) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL27 (NM_148571) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL27
Synonyms:	L27mt; L27mt, MGC23716; MGC23716; mitochondrial ribosomal protein L27
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_148571, the custom clone sequence may differ by one or more nucleotides

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ATGGCGTCGGTGGTGTGGCGCTGAGGACCCGGACAGCCGTTACATCCTTGCTAAGCCCCACTCCGGCTA  
CAGCTCTTGCTGTGAGATACGCATCCAAGAAGTCGGGTGGTAGCTCCAAAAACCTCGGTGGAAAGTCATC  
AGGCAGACGCCAAGGCATTAAGAAAATGGAAGTCACTATGTTTCATGCTGGGAACATCATTGCAACACAG  
CGCCATTTCCGCTGGCACCCAGGTGCCCATGTGAGTTGCTCCGTTGCTGCCCCCTTTTCTTTCTAG  
GTTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_148571 unedited ACTGACTATGGAGTNNNNNNNNNNNNNAGAGGGTGATCGAAAGCTGGCGTCGGCGGTG TTGGCGCTGAGGACCCGGACAGCCGTTACATCCTTGCTAAGCCCCACTCCGGCTACAGCT CTTGCTGTACAGATACGCATCCAAGAAGTCGGGTGGTAGCTCCAAAAACCTCGGTGGAAAG TCATCAGGCAGACGCCAAGGCATTAAGAAAATGGAAGGTCACTATGTTTCATGCTGGGAAC ATCATTGCAACACAGCGCCATTTCCGCTGGCACCAGGTGCCCATGTGAGTTGCTCCGTT GCTGCCCCCTTTTTCTTTTCTAGGTTGACCTCCTTGCCCCAAGCATGGTAATAAC AGTTGCATGTATTGAGTGCTTACCAAATGGCAAGCATTGTGCTGATTCCCATGCCTACAC GATCTCATTTCTCCTTACCACATCCCTGNAAGTAAGGTGAAATGCCANAGACCTANACG GNGTGGAAAGGAGCAAGTGACTGCTGGGATTTGCACCANGTCTGCCTAACTCCAGATCAC TATGATTTGCCCTGGTGTGCATTGGCCTGGTATTCTTGGGTCTCCTTTCTAACCCCTCAG TTCTTGGAGGACAAGATACCTGGTGATTTAAAATATTATTTTAGTCTGGGAACTAAATTC ATTATTAGTNNTCATATTCTAAGACTCTTNCTTGATACTACTGCAGATGGTGAANGAT ACTTGATTAATGAATAGAATCAGTTGCCAGAGGTAGTTATACCAGTGGGATTCAGTTCAG CAGTTGCATATTTTATGGGANGACAGTTTGTACAACTACGAACTGACTCTCCATATTT AAATATAGTGCTTGNACAGTTTCTCCACCCTTTCATATTTATAGACAAAGGTGATAGA CTGTTTATCAGAGCTATNGATGGAATGTTGATGAGACTTTACTTAACTACATTAAGGGGG TTTACAATATCACTACATTGCTNAGTTTAGCCTTGATGGG
Restriction Sites:	NotI-NotI
ACCN:	NM_148571
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:	<ol style="list-style-type: none"> 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_148571.1</u> , <u>NP_683412.1</u>
RefSeq Size:	2472 bp
RefSeq ORF:	285 bp
Locus ID:	51264
Cytogenetics:	17q21.33

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. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region, compared to variant 1, that results in a frameshift. It encodes isoform b which has a shorter and distinct C-terminus compared to isoform a.