

Product datasheet for **SC114858**

MRPL19 (NM_014763) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL19 (NM_014763) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL19
Synonyms:	L19mt; MRP-L15; MRP-L19; MRPL15; RLX1; RPML15
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014763, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCTGCATTGCAGCGGGGCACTGGGCTGCAATGGGCTAGGCCGGAGTTTCCAAGCCGCCAGGA  
CTCTGCTCCCCCGCCGGCCTCTATCGCCTGCAGGGTCCACGCGGGGCTGTCCGGCAGCAGAGCACTGG  
GCCTTCCGAGCCCGGTGCGTTCCAACCGCCGCCAAAACCGGTATCGTGGACAAGCACCGCCCGTGGAA  
CCGGAACGCAGGTTCTTGAGTCTGAATTCATTCTCGAAGGGGAAGAACAGATCCTCTGAAATTTCAA  
TAGAAAGAAAAGATATGTTAGAAAGGAGAAAAGTACTCCACATTCAGAGTTCTATGTTGGAAGTATTCT  
TCGTGTTACTACAGCTGACCCATATGCCAGTGGAAAAATCAGCCAGTTTCTGGGGATTTGCATTCAGAGA  
TCAGGAAGAGGACTTGGAGCTACTTTCATCCTTAGGAATGTTATCGAAGGACAAGGTGTCGAGATTTGCT  
TTGAACTTTATAATCCTCGGGTCCAGGAGATTCAGGTGGTCAAATTAGAGAAAACGGCTGGATGATAGCTT  
GCTATACTTACGAGATGCCCTTCTGAATATAGCACTTTTGTATGTGAATATGAAGCCAGTAGTACAAGAG  
CCTAACCAAAAAGTTCTGTAAATGAGCTGAAAGTAAAAATGAAGCCTAAGCCCTGGTCTAAACGCTGGG  
AACGTCCAAATTTAATATTAAGGAATCAGATTTGATCTTTGTTAACTGAACAGCAAATGAAAGAAGC  
TCAGAAGTGGAATCAGCCATGGCTTGAATTTGATATGATGAGGGAATATGATACTTCAAAAATTGAAGCT  
GCAATATGGAAGGAAATTGAAGCGTCGAAAAGGTCTTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014763 unedited
 GTCAGAATTTGTATACGACTCATATAGGGCGGCCGCAATTCGCACGAGGGGGCACTGGG
 CTGCAATGGGCTAGGCCGGAGTTTCCAAGCCGCCAGGACTCTGCTCCCCCGCCGGCCT
 CTATCGCCTGCAGGGTCCACGCGGGGCTGTCCGGCAGCAGAGCACTGGGCTTCCGAGC
 CCGGTGCGTTCCAACCGCCGCGAAACCGGTATCGTGGACAAGCACCGCCCGTGGAAAC
 CGGAACGCAGGAAGTATTCTTCGTGTTACTACAGCTGACCCATATGCCAGTGGAAAAATC
 AGCCAGTTTCTGGGATTTGCATTACAGATCAGGAAGAGGACTTGGAGCTACTTTCATC
 CTTAGGAATGTTATCGAAGGACAAGTAAGTTTTATTTTCATTTTCATTGTCTAGAAA
 ATGTTATCTCAGGATTCCTTTTTGTTTCTGCATCCTGGGATAAGAAATCTGAAATTTGAA
 AGTAAAAGGAGACTCTGAGGGAAGATGTGGAGCCTGTGGCTTTAGAATGGATTGAGATTT
 GAAGTTAATGATTAATATGGTTGATGGACTTCTTCTTGAAGGCTTCTTATGTTATT
 GGAACAACAGTCATTAGAAGTAGACTTTGCAAACCATGGCAACATCAAAGAGGGGAATAA
 ATTACTATAAAGCAGTATGGGGATTTGTTTTAGGAGCAAATAACCCATGAGTAAACT
 TTAAGACAAACCTTTAATGTCTTCATGAATTACTTGCTCCTAAAATGAATACCCACATTT
 TACTNTATGTTATGACACANAACANATTACACTGTCTTATATGACTTGGGAGGAATTTT
 AAAAAGGCAAAATGTGTTTATATACTATGCCTAAATAGAGGACAAGGAGTAAAACCTAG
 CCAGNATATTAATTAANATGGCAGGACCATT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014763 unedited
 TGGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCAGTTTTCCAAAATAAAATTTTGG
 TAAAAAATATTTGTGGTGGGCAGTAACTAAAAAATGCAGGGGAAATATTTACCAAG
 CCAAAATGATTTTCTTTTAAAGGGAAAAAATCCATTGGCAAATTTCCGGGAGTCTT
 CTGAAACCCTATAAAAGGTTTTATTTCTAACATTCTACATATAAAAAAAGTTCTTTT
 TCTTACCCTGATAGGGGGCCATAAATGTTTATTATTCTGAAAATCATATGGGGCTTATA
 AATTGTTCCCAATTAATAAAAAAATTCTCCCCCTTTCCCTTTGCTCAGTCCCATG
 CCCATTA AAAACCATTCGGGGGATGCTCTGACTCTTTTGAACCTTTGCCCCAATAACC
 AAAGGGACATTGGCCCTTTGGGCATGGGAAATCTTTTTTAAAGAAGAAAACGGGGGTC
 CAAGTTTTTTTTTAAAAAAAAGTTTTAATAAACCAAGGAAGGCTTAGCCCACTTAATTC
 CTATGTCCTTATAAAGGAAATAAAATGGGCCTCAAAATATATCCTCTTAAACCAATGTA
 TCTTCTGCAACTAACCAATTCATTCTCAAAATCAAACCTTTTGGACCCTTAAATTTCC
 TTCCTATGGCAGCTTCAATTTTGAAGTATCATAATTCCTCATCATATCAAATCCAGCCC
 ATGGCTGATTCCACTTCTGACCTTCTTTCTTTTGTGTCAATTAACCAAAGATCATATCT
 GATCCTTTAATTTAAAATTGAACGTTCCACCGTTTAAACAGGCCATAGCTTCTTTTTAC
 TTTCNCTAAGGAGATTAATAAAAAAAAAAAAAACC

Restriction Sites:

NotI-NotI

ACCN:

NM_014763

Insert Size:

3870 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_014763.2](#), [NP_055578.1](#)

RefSeq Size: 7827 bp

RefSeq ORF: 7827 bp

Locus ID: 9801

UniProt ID: [P49406](#)

Cytogenetics: 2p12

Domains: Ribosomal_L19

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]