

## Product datasheet for **SC115172**

### MRPL13 (NM\_014078) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL13 (NM_014078) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL13
Synonyms:	L13; L13A; L13mt; RPL13; RPML13
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115172 sequence for NM_014078 edited (data generated by NextGen Sequencing)

```
ATGTCGAGTTTCTCTAGGGCGCCCAGCAATGGGCCACTTTTGTAGAATATGGTATCTC
TTAGATGGGAAAATGCAGCCACCTGGCAAACCTTGCTGCTATGGCATCTATAAGACTTCAG
GGATTACATAAACCTGTGTACCATGCACTGAGTGACTGTGGGATCATGTTGTTATAATG
AACACAAGACACATTGCATTTTCTGAAACAAATGGGAACAAAAAGTATACTCTTCGCAT
ACTGGCTACCCAGGTGGATTTAGACAAGTAACAGCTGCTCAGCTTACCTGAGGGATCCA
GTGGCAATTGTAAACTAGCTATTTATGGCATGCTGCCAAAAACCTTACAGAAGAACA
ATGATGGAAGGTTGCATCTTTTCCAGATGAGTATATTCCAGAAGATATTCTTAAGAAT
TTAGTAGAGGAGCTTCTCAACCAGAAAAATACCTAAACGTCTAGATGAGTACACACAA
GAAGAAATAGACGCCTTCCAAGATTGTGGACTCCACCTGAAGATTATCGGCTATAA
```

Clone variation with respect to NM\_014078.5



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_014078 unedited  
 TTTGTCTACGTTCTATAGGCGGCCCGGATTCCGGCACGAGGGAAGGACGTACGGTCCTG  
 CTAGTAGAGGAATATGTCGAGTTTCTCTAGGGCGCCCCAGCAATGGGCCACTTTTGTCTAG  
 AATATGGTATCTCTTAGATGGGAAAATGCAGCCACCTGGCAAACCTTGCTGCTATGGCATC  
 TATAAGACTTCAGGGATTACATAAACCTGTGTACCATGCACTGAGTGACTGTGGGGATCA  
 TGTTGTTATAATGAACACAAGACACATTGCATTTTCTGGAACAAATGGGAACAAAAAGT  
 ATACTCTTCGCATACTGGCTACCCAGGTGGATTTAGACAAGTAACAGCTGCTCAGCTTCA  
 CCTGAGGGATCCAGTGGCAATTGTAAAACCTAGCTATTTATGGCATGCTGCCAAAAAACCT  
 TCACAGAAGAACAATGATGGAAAGGTTGCATCTTTTTCCAGATGAGTATATTCCAGAAGA  
 TATTCTTAAGAATTTAGTAGAGGAGCTTCTCAACCACGAAAAATACCTAAACGTCTAGA  
 TGAGTACACACAAGAAGAAATAGACGCCTTCCCAAGATTGTGGACTCCACCTGAAGATTA  
 TCGGCTATAAGAGAATAAGAATTGCAGAAAATAACAGTGAAGTGATTGAAACTTTCTTCT  
 GATGAGTTTCTTAACCTACAGGATGGAGTAAAACAACCTGCTACAGTTCCAGCACCTGTTT  
 TATGTGCCGAATCACTGTGGGAAAGGTCAAGAAGGTGTAGTCCCTCAATAGGAAATTTGT  
 ATAAAAATATAATCTTATAGCACCATNNTTATGTATCTGATTGATGTTATAGTTGATA  
 ATATAAAATCACTTACTTGGTTGAAAAAAAAAAAAAAAAAAGTCTGACTCTAGATAGNGNCCG  
 CGTTCATAGCTGGTTCCTGAACGACTCCGGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_014078 unedited  
 TATGGACCGCGGCACGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTCAACCAAGTAA  
 GTGATTTTATTATTCAACTATAACATTCAAATCAGATTACATAAAAAATGGTCTATAA  
 AATTATATTTAATTACAATTTCTATTGAAGGACTACACCTTCTGACCTTTCCCACA  
 GTGATTCGGCACATAAAACAGGTGCTGAACTGTAGCAGTTGTTTTACTCCATCCTGTAGG  
 TTAGAGAAACTCATCAGAAGAAAGTTTCAATCACTTCACTGTTATTTTCTGCAATCTTA  
 TTCTCTTATAGCCGATAATCTTCAGGTGGAGTCCACAATCTTGGGAAGGCGTCTATTTCT  
 TCTTGTGTGACTCATCTAAACGTTTAGGTATTTTTCTGTTGAGGAAGCTCCTCTACT  
 AAATCTTAAGAAATCTTCTGGAATATACTCATCTGGAAAAAGATGCAACCTTTCCATC  
 ATTGTTCTTCTGTGAAGTTTTTTGGCAGCATGCCATAAATAGCTAGTTTTACAATTGCC  
 ACTGGATCCCTCAGGTGAAGCTGAGCAGCTGTTACTTGTCTAAATCCACCTGGGTAGCCA  
 GTATGCCAAGAGTATACTTTTTGTTCCCATTTGTTCCAGAAAATGCAATGTGTCTTGTG  
 TTCATTATAACAACATGATCCCCACAGTCCCTCAGTGCATGGAACACAAGTTTATGTAAC  
 CCCGTGAGTCTTATAGATGCCATAAACACCAAGTTTGCCAGGTGGCTGCATTTTCCCATC  
 TAAGAAAACCCTAATTCTAACAAAAGGGGCCATTGCTGGGGCCCCCAATAAAAACTCG  
 ACATATCTCTTTTCTAACAGGACCGTCCGTCCTTCCCTTGTGCCCGATTGCGCCCCCT  
 TATAGGAGTCGGATTACAAAATCTGGCGTTTCTTAAACAAGCCTTGGTTTATTAGACAC  
 CCCACCCGTACCCCTACCGTCTCATTGTTCAACGGGGCGGGGTTTA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_014078

**Insert Size:**

870 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\\_014078.4](#), [NP\\_054797.2](#)

**RefSeq Size:** 1113 bp

**RefSeq ORF:** 537 bp

**Locus ID:** 28998

**UniProt ID:** [Q9BYD1](#)

**Cytogenetics:** 8q24.12

**Domains:** Ribosomal\_L13

**Protein Pathways:** Ribosome

**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]