

## Product datasheet for **SC113890**

### MRPL16 (NM\_017840) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL16 (NM_017840) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL16
Synonyms:	L16mt; MRP-L16; PNAS-111
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113890 sequence for NM_017840 edited (data generated by NextGen Sequencing)

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ATGTGGAGGCTGCTGGCTCGCGTAGTGCGCCGCTCCTGCGGGTGCCTTGTGAGATTCC
TGGGCACTCCTCCCGCCAGTGCTGGCGTAAAGACACTGCTCCAGTACCAAGTTTTGAA
GATGTTTTCCATTCTGAAAAACCAAGCTTAGATTTATTGAAAGGGCACCACTTGTGCCA
AAAGTAAGAAGAGAACCTAAAAATTTAAGTGACATACGGGGACCTTCCACTGAAGCTACG
GAGTTTACAGAAGGCAATTTTGAATCTTGGCATTGGGTGGTGGCTACCTGCATTGGGGC
CACTTTGAAATGATGCGCCTGACAATCAACCGCTCTATGGACCCCAAGAACATGTTTGCC
ATATGGCGAGTACCAGCCCCTTTCAAGCCCATCACTCGCAAAAGTGTGGGCATCGCATG
GGGGGAGGCAAAGGTGCTATTGACCACTACGTGACACCTGTGAAGGCTGGCCGCCTGTT
GTAGAGATGGGTGGCGTTGTGAATTTGAAGAAGTGAAGGTTTCCTTGACCAGGTTGCC
CACAAGTTGCCCTTCGCAGCAAAGGCTGTGAGCCGCGGGACTCTAGAGAAGATGCGAAAA
GATCAAGAGGAAAAGAGAACGTAACAACCAAGAACCCCTGGACATTTGAGCGAATAGCCACT
GCCAACATGCTGGGCATACGAAAGTACTGAGCCCATATGACTTGACCCACAAGGGGAAA
TACTGGGGCAAGTTCTACATGCCCAAACGTGTGTAG
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Clone variation with respect to NM\_017840.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_017840 unedited</p> <pre>GGTTANGATTTGTATACGACTCCTATAGGCGGCCGCGCAATTGGCACGAGGGGCCGATTA CAGCTAGGTAGTGGAGCGCCGCTGCTTACCTGGGTGCAGGAGACAGCCGGAGTCGCTGGG GGAGCTCCGCGCCCGGACGCCCGTGACCATGTGGAGGCTGCTGGCTCGCGCTAGTGCG CCGCTCCTGCGGGTGCCCTTGTGAGATTCTGGGCACTCCTCCCCGCCAGTGCTGGCGTA AAGACACTGCTCCAGTACCAAGTTTTGAAGATGTTCCATTCTGAAAAACCAAGCT AGATTTATTGAAAGGGCACCCTTGTGCCAAAAGTAAGAAGAGAACCTAAAAATTTAAGT GACATACGGGGACCTTCCACTGAAGCTACGGAGTTTACAGAAGGCAATTTTGCAATCTTG GCATTGGGTGGTACTGCTGATTGGGGCCACTTTGAAATGATGCGCCTGACAATCAAC CGCTCTATGGACCCCAAGAACATGTTTGCCATATGGCGAGTACCAGCCCTTTCAAGCCC ATCACTCGAAAAGTGTGGGCATCGCATGGGGGGAGGCAAAGGTGCTATTGACCACTAC GTGACACCTGTGAAGGCTGGCCGCTTGTGTAGAGATGGGTGGGCGTTGTGAATTTGAA GAAGTGAAGGTTTCTTGACCAGGTTGCCACAAGTTGCCCTTCGCAGCAAAGGCTGTG AGCCGCGGGACTCTAGAGAAGATGCGAAAAGATCAAGAGGAAAGAGAACGTAACAACCAG AACCCCTGGACATTTGAGCGAATAGCCACTGCCAACATGCTGGGCATACGAAAGTACTG AGCCCATATGACTTGACCCACAAGNGAATACTGGGCCAGTTCTACAGCCCAACCTGTGT AGTGAGGGTAGGAAT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_017840 unedited</p> <pre>CGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTGAA GGGATGTTTAAATTTTATTTAATAAAAAACAGTTTTTTTTTTTAAATCAACAAATAACAT TGTTTTTCAAAAATCTACTCAAATGCTGCTCCTTAGTTATGGCTTAAAAGCTACCCAAAG ACTTCAGTGGGTAGGCTGAGGGGAATAAAAATGCAAAAATCCTTTTTTTCAGTACCCTATAT ACAGTTATCTCTACACTCACTACACACGTTTGGGCATGTAAAACCTTGCCCCAGTTTTTC CCCTTGTTGGGTCAAGTCATATGGGCTCAGTACTTTCCGTATGCCAGCATGTTGGCAGTG GCTATTCCTCAAATGTCCAGGGGTTCTGGTTGTTACGTTCTCTTTCTCTTGATCTTTT CGCATCTTCTTTAAAGTCCCAGGCTCACAGCCTTTGCTGCGAAGGGCAACTTGTGGGCA ACCTGGTCAAGGAAACCTTGCACTTCTTCAAATCACAAACGCCCAACCCATCTNTACAACA AGGCGGCCAGCCTTCACAGGTGTACGTAGTGGTCAATAGCACCTTGCCTCCCCCATG CGATGCCAACACTTTTGAAGTATGGCCTTGAAGGGGCTCGTACTCGCCATATGGCA AACATGTTCTTGGGGCCATAGAGCGTTTGATTGCAGGCCATCATTTAAAGTCCCCCA TGCAGTAGCCCCCCCCAAGCCAAGATGGAATAATGCTTCTTGAACCCGAACTTCATG AAAGGCCCGTTTTGCCCTAAAATTTAGTCTCTTCTTACTTTGCCAAGTGGGCCTTTAATA AACTAACTGGGTTTTAGAAAGGACCTCTTAAACTTGTCTGGACAGGTTTTACCCCTGG GGGGAGATCCCAAATTTACAGCCCCGGGACGCCCTTACTAACCACCCCAAGTACGG CGTC</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_017840
<b>Insert Size:</b>	1050 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_017840.2</a> , <a href="#">NP_060310.1</a>
<b>RefSeq Size:</b>	1217 bp
<b>RefSeq ORF:</b>	756 bp
<b>Locus ID:</b>	54948
<b>UniProt ID:</b>	<a href="#">Q9NX20</a>
<b>Cytogenetics:</b>	11q12.1
<b>Domains:</b>	Ribosomal_L16
<b>Gene Summary:</b>	<p>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]</p>