

## Product datasheet for **SC124456**

### MRPL24 (NM\_145729) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL24 (NM_145729) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPL24
Synonyms:	L24mt; MRP-L18; MRP-L24
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_145729, the custom clone sequence may differ by one or more nucleotides

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ATGCGTCTTTCTGCCCTGCTGGCCTTGGCATCCAAGGTCCTCTGCCCCCCATTACCGCTATGGGATGA
GCCCCCAGGCTCTGTTGCAGACAAGAGGAAGAACCCCCCATGGATCAGGCGGCGCCAGTGGTTGTGGA
ACCCATCTCTGATGAAGACTGGTATCTGTTCTGTGGGACACGGTGGAGATCCTAGAAGGCAAGGATGCC
GGGAAGCAGGGCAAAGTGGTTCAAGTTATCCGGCAGCGAAACTGGGTGGTCGTGGGAGGGCTGAACACAC
ATTACCGTACATTGGCAAGACCATGGATTACCGGGAACCATGATCCCTAGTGAAGCCCTTGTCTCCA
CCGCCAGGTCAAACCTGTGGATCCTATGGACAGGAAACCCACTGAGATCGAGTGGAGATTTACTGAAGCA
GGAGAGCGGGTACGAGTCTCCACACGATCAGGGAGAATTATCCCTAAACCCGAATTTCCAGAGCTGATG
GCATCGTCCCTGAAACGTGGATTGATGGCCCCAAGACACATCAGTGGAAGATGCTTTAGAAAGAACCTA
TGTGCCCTGTCTAAAGACTGCAGGAGGAGGTGATGGAGGCCATGGGGATCAAGGAGACCCGGAATAC
AAGAAGTCTATTGGTATTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_145729 unedited TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTGAAAATCCGAAGTGC CGCGGAAAGTGGAGAGCTGACAAGGAAGTTTCGAGCGTTTTGCTGGCAAAGGGATTTCT TACAACCTCCAGGCATGCGTCTTTCTGCCCTGCTGGCCTTGGCATCCAAGTCACTCTGC CCCCCATTACCCTATGGGATGAGCCCCCAGGCTCTGTTGCAGACAAGAGGAAGAACC CCCCATGGATCAGGCGGCGCCAGTGGTTGTGGAACCCATCTCTGATGAAGACTGGTATC TGTTCTGTGGGGACACGGTGGAGATCCTAGAAGCAAGGATGCCGGGAAGCAGGGCAAAG TGTTCAAGTTATCCGGCAGCGAAACTGGGTGGTGGTGGGAGGGCTGAACACACATTACC GCTACATTGGCAAGACCATGGATTACCGGGGAACCATGATCCCTAGTGAAGCCCCCTTGC TCCACCGCCAGGTCAAACCTGTGGATCCTATGGACAGGAAACCCACTGAGATCGAGTGG GATTTACTGAAGCAGGAGAGCGGGTACGAGTCTCCACACGATCAGGGAGAATTATCCCTA AACCCGAATTTCCAGAGCTGATGGCATCGTCCCTGAAACGTGGATTGATGGCCCCAAAG ACACATCAGTGAAGATGCTNTAGAAAGAACCTATGTGCCCTGTCTAAAGACTGNCAG ANGANGTGATGGANGCCATGGNGATCAAGGAGACCCGNAATACAAGAAGTCTATTGGTAT TGAGCCTGGGGCAGAGCAGCTCCTCCCCACTTCTGTCCCAGCCTTGAGGGCTGAGCACTT CTTNTCAGATGCATAAAGAGCCTTTATGAGTCAAAAAAAAAAAAAAACTCACTCTGATG CNGGCGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_145729
<b>Insert Size:</b>	1000 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_145729.1</a> , <a href="#">NP_663781.1</a>
<b>RefSeq Size:</b>	956 bp
<b>RefSeq ORF:</b>	651 bp
<b>Locus ID:</b>	79590
<b>UniProt ID:</b>	<a href="#">Q96A35</a>
<b>Cytogenetics:</b>	1q23.1
<b>Domains:</b>	KOW

**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 which is more than twice the size of its E.coli counterpart (EcoL24). Sequence analysis identified two transcript variants that encode the same protein. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) is the longer transcript and it encodes the same protein as variant 2.