

## Product datasheet for **SC214575**

### MRPL42 (NM\_172177) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	MRPL42 (NM_172177) Human 3' UTR Clone
Symbol:	MRPL42
Synonyms:	HSPC204; L31MT; L42MT; MRP-L31; MRP-L42; MRP-S32; MRPL31; MRPS32; PTD007; RPML31; S32MT
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_172177
Insert Size:	2000 bp



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**Insert Sequence:**

>SC214575 3'UTR clone of NM\_172177

The sequence shown below is from the reference sequence of NM\_172177. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
AAGAATCTGAATCCTCCAAAAGACAGATGATGCGGAGTTCTGGGGAATCAAAGAGAAATGTGCCTC
ATTTGCCATTTGAGAAAATGCAGTCTGGTGTATTAGTAATATATAGTAAAGTAATAATGATAAAATAT
CTTTTCATATATTAGAATGTGTACTTTTATATAAGTAATTCTGGATTTGACATTCTCATTTAGAGAAA
CCTATTTTCTTTTTCTTTTTCTATTTTAGTGTTCATTATGTGCGGTCTCCAATTTAGGACTTTTCC
ATAGTGCCAAAGCCATACATATTCAGTAGAACATCAATAAATTACATCAGAAATCAACACTTTATTAT
AAAACGGGCTTCGTGTTAGATAATTTTGTAAACAGTAGGCTACTGTAAGTGTCTGAGCATATTTAAG
ACAGGCTAGCATTTTCAATTTACAATATTTTCAACTGATAGTAGGTTTATTGGGATGTAACCCTATGAT
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TTAGTAGTATAAATATGATTAATAAAAAATGTGCATGGCTTTCCTGAAGGAGATTTTTTAATTGCCTTTG
AGAATAAACTCATAAGGTCTACCAAGAAAATAAATGTTATGATGTTTCAGTTGGCTTCTAGGAAATAAT
TAAATTAGTGATATTTTAAATCAGGTTTTACTATCTGCTAGGCCCTTCCATCAATTTTATTAATTTCT
CAAAAATACTTTGAAAAGGGAGTATAATTACATTTTACAGTGAAGTTCGAACCTTACCCAAAAGTGG
GAGAGCCAGGAGCCAAATATCAGGCTCCAAAGCTTTTTTTTAGTGATCACAATGACAAAAGGGTGGT
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GCTTATGTATGATCCTTAATAGCATTGCTTCCCCTTCAGTTTCTATTTAGGAGGTGAAGAATCTTTTAA
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TATGAAAATAATTTCTCAAAGTCTATTGTTGATCTAGTTATTTAATAAAGGAACTCTAGAAGTTTC
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GGTTTACTTTTTCCATTAATATAAATTTTCAATTTGGAAAGATTAACAAAACAGTTTGATTGAACTTGAT
AAATCAGAAATATTTACCAGCTTTGTCGATGGTGTATTCTTGAAAATGTTTGGTTTTCTTTCAGGTTG
ACTTATATCCAAAATTTACAAAATTTCTAGCTATGTTATAAATGTAGAAAAGTGAATAATCAAAAATA
TGATTATGAAGATTTTCTCTCTCCGAGTACAAAGCTCTGCTAAATAAGGATTTACCCAAGATGCCCA
CATCCACATACTTATGTGTCAGTCTTTGGAGAATTAACCTTGGACTTTATTCTACTGGAAGTATAGATT
AACACTGTGCTTTCTGGGATTTTCTTTTCATGGGTTGCTGATTTTAAATTTTGCTAAATAAGCACATA
GTCCGTGATCACCAGCATCACCTGCCCTCTGTTCTCCCCCGTCCCCAGGGATAAGAACCTGTTATCC
ACCATCAGTAACATTTTATGAAAGATCTACTTATTTGTCTGTTTTGCAGACATTTTAAAATTCGTAAG
TGGGATGCTTCTTTAATTTAAATACATTTAGCTTCATGAAAACACTACTACACAGTTCTTGTTC AAGC
ACGCGT AAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCACCGCCGCCTTCTATGAAAGG
    
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**Restriction Sites:**

Sgfl-Mlul

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:**

The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:**

[NM\\_172177.5](#)

**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 protein identified as belonging to both the 28S and the 39S subunits. Alternative splicing results in multiple transcript variants. Pseudogenes corresponding to this gene are found on chromosomes 4q, 6p, 6q, 7p, and 15q. [provided by RefSeq, May 2011]

**Locus ID:**

28977

**MW:**

78.5