

## Product datasheet for **SC214574**

### MRPL42 (NM\_172178) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	MRPL42 (NM_172178) Human 3' UTR Clone
Symbol:	MRPL42
Synonyms:	HSPC204; MRP-L31; MRPL31; MRPS32; PTD007; RPML31
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_172178
Insert Size:	1465 bp



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**Insert Sequence:** >SC214574 3'UTR clone of NM\_172178  
 The sequence shown below is from the reference sequence of NM\_172178. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
AAGAATCTGAATCCTCCAAAAGACAGATGATGCGGAGTTCTGGGGAATCAAAGAGAAATGTGCCTC
ATTTGCCATTTGAGAAAATGCAGTCTGGTGTATTAGTAATATATAGTAAAGTAATAATGATAAAATAT
CTTTTCATATATTAGAATGTGTACTTTTATATAAGTAATTCTGGATTTGACATTCTCATTTAGAGAAA
CCTATTTTCTTTTTCTTTTTCTATTTTAGTGTTCATTTATGTGCGGTCTCCAATTTAGGACTTTTCC
ATAGTGCCAAAGCCATACATATTCAGTAGAACATCAATAAATTACATCAGAAATCAACACTTTATTAT
AAAACGGGCTTCGTGTTAGATAATTTTGTAAACAGTAGGCTACTGTAAGTGTCTGAGCATATTTAAG
ACAGGCTAGCATTTTCAATTTACAATATTTTCAACTGATAGTAGGTTTATTGGGATGTAACCCTATGAT
AAGTTGAGAAACATCTCTTTTTGTGTCTACTGTGATTTAAGTATTTTAAATCATCAGCCAAGCATTG
TTAGTAGTATAAATATGATTAATAAAAAATGTGCATGGCTTTCCTGAAGGAGATTTTTTAATTGCCTTTG
AGAATAAACTCATAAGGTCTACCAAGAAAATAAATGTTATGATGTTTCAGTTGGCTTCTAGGAAATAAT
TAAATTAGTGATATTTTAAATCAGGTTTTACTATCTGCTAGGCCCTTCCATCAATTTTATTAATTTCT
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GAGAGCCAGGAGCCAAATATCAGGCTCCAAAGCTTTTTTTTAGTGATCACAATGACAAAGGGTGGT
TTTCTTTACCCAAGAATGTGCTTTCCTGGAAATTTTCTAGATAGAATATTATGTAATTTGTTTTGAA
GGTTTTTTTTCTGACTGTCTTAAAGATTATGCTAGCTTTAGAACACATGCAAACAGCTGCAGCTCTGT
GATTAATAATGTTAAGGTCACTAGAATAGTGTAGGAAAATGTTAATAGATAATTTGCTGCCTCTATTA
GCTTATGTATGATCCTTAATAGCATTGCTTCCCTTCAGTTTCTATTTAGGAGGTGAAGAATCTTTTAA
TAAGGTAGAAAAGTTGCTTTATTTAAATTTGACTGTAGAATGTTTGTGATACAGTATTTGTAATTTGA
TATGAAAATAATTTCTCAAAGTCTATTGTTGATCTAGTTATTTTAAATAAAGGAACTCTAGAAGTTTC
AAGTGCCAGTGAAGTGTGAGGAATAGAGAGTAAAGGAAATAATTAATAATGGTGACCCTCTGTTAAGT
GGTTTACTTTTTCCATTAATATAAATTTTCAATTTGGAAAGATTAATAAACAAGTTTGATTGAACTTGAT
AAATCAGAAATATTTA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTGATTCACCGCCGCTTCTATGAAAGG
  
```

**Restriction Sites:** SgfI-MluI

**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 µg dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_172178.2](#)

**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:**

57.8