

## Product datasheet for SC200229

### MRPL21 (NM\_181514) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	MRPL21 (NM_181514) Human 3' UTR Clone
Symbol:	MRPL21
Synonyms:	L21mt; MRP-L21
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_181514
Insert Size:	83 bp
Insert Sequence:	<p>&gt;SC200229 3'UTR clone of NM_181514</p> <p>The sequence shown below is from the reference sequence of NM_181514. The complete sequence of this clone may contain minor differences, such as SNPs.</p> <p>Blue=Stop Codon Red=Cloning site</p> <p>GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGCGGAAAGATCGCCGTG            TAACAATTGGCAGAGCTCAGAATTCAA<b>CGATCGCC</b>            AGCATTGAGATTGCTCCGTGTTTGTG<b>TGA</b>TTACCGAGTTAATACTTACAAAAGGATAAAAATAAACTC            CTGCTTCCCAAGGA  <b>ACGCGT</b>AAGCGGCCGCGGCATCTAGATTCAAGAAAAATGACCGACCAAGCGACGCCAACCTGCCATCA            CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG</p>
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 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u><a href="#">NM_181514.2</a></u>


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**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. Multiple transcript variants encoding different isoforms were identified through sequence analysis although some may be subject to nonsense-mediated decay (NMD). [provided by RefSeq, Jul 2008]

**Locus ID:**

219927

**MW:**

3.1