

## Product datasheet for **SC215032**

### **MRPS10 (NM\_018141) Human 3' UTR Clone**

#### **Product data:**

|                       |                       |
|-----------------------|-----------------------|
| <b>Product Type:</b>  | 3' UTR Clones         |
| <b>Symbol:</b>        | MRPS10                |
| <b>Synonyms:</b>      | MRP-S10; PNAS-122     |
| <b>Mammalian Cell</b> | Neomycin              |
| <b>Selection:</b>     |                       |
| <b>Vector:</b>        | pMirTarget (PS100062) |
| <b>ACCN:</b>          | NM_018141             |
| <b>Insert Size:</b>   | 1512 bp               |



**Insert Sequence:**

>SC215032 3'UTR clone of NM\_018141

The sequence shown below is from the reference sequence of NM\_018141. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAGCGATCGCC
TCAGAAAGAAAAGAAGAAAGCAAGTCAAAAGCCTCAGGGAGGCCATTTTGCCTAAATTTGAAATGAG
GGTGGGCCAGATGAGTATGTTTAAAGTGGAGAGTCTTCCAGCTGAGATGATTTGAGTCTGCCTAACTG
CTCCATTGAGTTCTCGTGCCCTCATCAGCTGAGGGCAGGGAATGGAACCTTAATGGAAGAACCACCTTT
ATCTATTCTTTTATTCATTGTTTCAGTTCTGATTTTCAGCAACATGAGCAAAACCACCTTTGACTGAAAG
CAGAAAGAGTGAAAATTTCTATTTTGTACGCTACTGGTGTCAATTATTAGTTTGTACCAATTTTAAAT
TATGTCAAGTTGATGCATCTGAAAATAAGTCTGGAGTGTTCGTACCCCTATTTTTTTTTAAGATTCCT
AGAAGGAATCTTTGGTTAATTCAGATTGAGCAGTTAAAGTTTTTGCTATTTACCTTTGTGCAGGCTGGC
ATATGCTAATTTGGGGTGGTAACCAACCGATTTTATCTCATGTAAGCATTACATTTTGAAGACTGAAT
ATACTTCACAGCAGATCAAAACACATTTATGGCATGCACTGACCTCTTCTGGAGCCCAGAACCTTTATAG
AGTTGCCTACCAGGGTTACTGTAATGGAATTTATGATCTTAAGAAATTACTAGTTGTATTATTTATCCT
ATGATTCATTCAATAAGCTTTTACTGCATAAACTTTACATCCAGCACTGTAGTTAAGTACCCAAA
ATTGAATAGAAATAATGGCTTTTGAATTCGCACAAAGCAGGCCAGGCACGGTGGCTCAGCCTGTAAT
CCCAGCATTTTGGGAGGCCGAGGCAGGCGGATCACGAGGTCAAGAGATCCAGACCATCCTGGCTAACAC
GGTGAAACCCCGTCTCTAATAAAAAATACAAAAATTAGCTGGACATGGTGGCAGCTGCCTGTAATCCAG
CTACTCAGGAGGCTGAGGCAGGAGAATTGCGTGAACCCGGGCCCGTGGAGGCTGCAGTGAGACGAGAT
CGCGCCACTGCACTCCAGCCTGGCGACAGAGCGAGACGCCGTCTCAAAAAAAAAAAGAAATTGTGC
AAAGCATAGGTAAATATTTTCTTTATTAAGCTTCTCACTGAGAAGCCCTCTTTATTTTGGTAAATGTC
ACTCTGTTTGTAGGAGATGTCTGCTTTTCCATGAAATGAAATAGTGGCTAAAGCCCTGAAAGAGGCAA
GACTACAATGGGCTGAAACAGTTGGTATAGCAACCCAGAGAAGTGCTTCATTTTCTTTTATAGTAGA
AGCAGGTCCATGTCTTTGTGGTTTCTGCACATCTTTGGAGTAGTTATGACTTCTCAGTTTTTCCCCC
CTTAAACTGCATTGCCTATTCTTTTCTTGACATGCTATCAGGTATCAGTGTGTTGAATACATACTGC
TTGTGTATCAGACTTACGTTACTGTCATCACCATTAAAGAATTGCAGCTTTGTGCCCCATGA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG
```

**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.

**Note:**

Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:**

NM\_018141.4

**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 28S subunit protein that belongs to the ribosomal protein S10P family. Pseudogenes corresponding to this gene are found on chromosomes 1q, 3p, and 9p. [provided by RefSeq, Jul 2008]

**Locus ID:**

55173

**MW:**

57.8