

Product datasheet for **SC200159**

MRPS22 (NM_020191) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones
Product Name: MRPS22 (NM_020191) Human 3' UTR Clone
Symbol: MRPS22
Synonyms: C3orf5; COXPD5; GIBT; GK002; MRP-S22; ODG7; RPMS22
Mammalian Cell Selection: Neomycin
Vector: pMirTarget (PS100062)
ACCN: NM_020191
Insert Size: 145 bp
Insert Sequence: >SC200159 3'UTR clone of NM_020191
 The sequence shown below is from the reference sequence of NM_020191. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAACGATCGCC
GCACTCAGTCGCCATTCTGCAGTTCTCTAAAATATTTTAAAAATACATTTATTTTACTAAATACTGAC
TACATTTCTCTGTTAATATTGAGCTAAATGTTAAAAAATGGCCAGATTAAGATATCAATTTGTAGTT
CTCCCTA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
```

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: [NM_020191.4](#)


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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 28S subunit protein that does not seem to have a counterpart in prokaryotic and fungal-mitochondrial ribosomes. This gene lies telomeric of and is transcribed in the opposite direction from the forkhead box L2 gene. A pseudogene corresponding to this gene is found on chromosome Xq. [provided by RefSeq, Jul 2008]

Locus ID:

56945

MW:

5.6