

Product datasheet for **SC204453**

MRPS12 (NM_021107) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones
Product Name: MRPS12 (NM_021107) Human 3' UTR Clone
Vector: pMirTarget (PS100062)
Symbol: MRPS12
Synonyms: MPR-S12; MT-RPS12; RPMS12; RPS12; RPSM12
ACCN: NM_021107
Insert Size: 366 bp
Insert Sequence: >SC204453 3'UTR clone of NM_021107

The sequence shown below is from the reference sequence of NM_021107. 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
TACGACTGTGGCCACGTGCAGAAGAAGTGA CGGCTGGGGGCACAGTGGGCTGGGCGCCCTGCAGAACA
TGAACCTCCGCTCCTGGCTGCCACAGGGTCTCCGATGCTGGCCTTTGCGCCTAGAGGCAGCCACT
CATGGATTCAAGTCTGGCTCCGCCTCTCCATCAGGACCACTATTAAGCCATAGGAGTCTGGGGGTG
CAAAGGGTGCCCTCTGTCAACACCCTTGCTCCTGTGTTTAGAGGGGTGGCCTGAAGGACCTTTTCTG
CTGGGACAAGACTGTACTGCCCTCTGCTGGGAAGGGGTTTTAATAACAGACCCTGGCGCTTGTGAT
GTAAAAAAAAAAAAAAAAAAAA
ACGCGTAAGCGGCCGCGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
```

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_021107.1](#)



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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 belongs to the ribosomal protein S12P family. The encoded protein is a key component of the ribosomal small subunit and controls the decoding fidelity and susceptibility to aminoglycoside antibiotics. The gene for mitochondrial seryl-tRNA synthetase is located upstream and adjacent to this gene, and both genes are possible candidates for the autosomal dominant deafness gene (DFNA4). Splice variants that differ in the 5' UTR have been found for this gene; all three variants encode the same protein. [provided by RefSeq, Jul 2008]

Locus ID:

6183

MW:

13.7