

OriGene Technologies, Inc.

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Product datasheet for RC202911L4V

MRPS12 (NM_033362) Human Tagged ORF Clone Lentiviral Particle

Product data:

| Product Type: | Lentiviral Particles |
|------------------------------|---|
| Product Name: | MRPS12 (NM_033362) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | MRPS12 |
| Synonyms: | MPR-S12; MT-RPS12; RPMS12; RPS12; RPSM12 |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| Tag: | mGFP |
| ACCN: | NM_033362 |
| ORF Size: | 414 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC202911). |
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u> |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| RefSeq: | <u>NM 033362.2</u> |
| RefSeq Size: | 1116 bp |
| RefSeq ORF: | 417 bp |
| Locus ID: | 6183 |
| UniProt ID: | <u>015235</u> |
| Cytogenetics: | 19q13.2 |
| Domains: | Ribosomal_S12 |
| Protein Families: | Druggable Genome, Stem cell - Pluripotency |



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| | MRPS12 (NM_033362) Human Tagged ORF Clone Lentiviral Particle – RC202911L4V |
|---------------|--|
| MW: | 15.2 kDa |
| Gene 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] |

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