

## Product datasheet for **SC335590**

### MRPS27 (NM\_001286751) Human Untagged Clone

#### Product data:

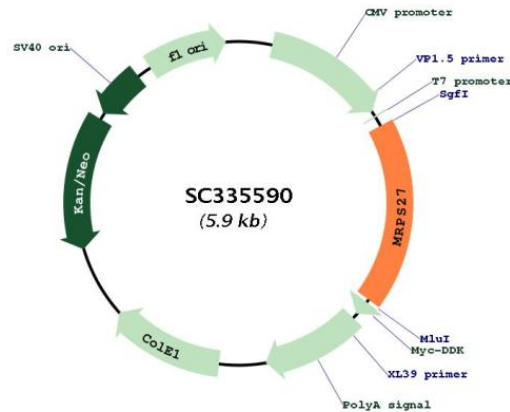
Product Type:	Expression Plasmids
Product Name:	MRPS27 (NM_001286751) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPS27
Synonyms:	MRP-S27; S27mt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335590 representing NM_001286751. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATAAAACATTTGAGAGAAAGTTGCCTGTTAGTTCCTTAACAATATCACGGCTTATAGACAACATT
TCCTCTCGGGAAGAGATAGATCATGCAGAGTATTACCTTTACAAGTTTCGACACAGCCCCAACTGCTGG
TACCTGAGAACTGGACTATCCACACCTGGATTAGGCAGTGTCTAAAATATGATGCACAAGACAAAGCC
CTATATACCTTGTAAATAAGGTTCAATATGGAATTTTCCAGATAACTTTACATTCAATTTACTGATG
GATTCTTTCATAAAGAAAGAAAATTACAAAGATGCTTTATCTGTGGTTTTGAGGTCATGATGCAAGAA
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GACTTCAGTTGGGAAGAGAGAGAACTTTGGTGCATCCCTTTGCTCCAGGCCAAAACAAAAGAAC
TCAGTGGGTTTCAGTTCCAGTTGTATGGCTATGCACTTCTTGGGAAGGTGGAGTTGCAGCAAGGGCTA
CGGGCTGTGTACCACAACATGCCTCTGATATGGAACCAGGCTACCTTGACAGAGCCCTTCAAGTGATG
GAGAAAGTGGCTGCCTCCCAGAAGACATAAAGCTGTGTAGAGAAGCGCTCGATGTGCTGGGTGCAGTG
CTGAAGGCTCTGACTTCAGCTGATGGGGCTTCCAGAGGAGCAGTCCAAAATGATGAAGACAACAGGGG
TCAGAAAACTGGTGGAGCAGTTAGACATCGAGGAAACAGAGCAGTCCAAGCTTCTCAATACCTGGAA
CGATTTAAGGCCTTACATTCTAAGCTTCAAGCTCTGGGCAAAATTGAGTCAGAAGGTCTTTAAGTCTG
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CTGCAGCAGTGGCATCTAGACCTTGTACAGTTGATCCAGAGAGAACAGCAACAGAGGGGAGCAAGCGAAG
CAGGAGTACCAGGCTCAGAAAGCAGCAAAGGCATCTGCCTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001286751

**Insert Size:** 1077 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001286751.1](#)

**RefSeq Size:** 2765 bp

**RefSeq ORF:** 1077 bp

**Locus ID:** 23107

**Cytogenetics:** 5q13.2

**MW:** 41.3 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 may be a functional partner of the death associated protein 3 (DAP3). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Nov 2013]

Transcript Variant: This variant (3) differs in the 5' UTR and has multiple coding region differences, compared to variant 1. These differences cause translation initiation at a downstream AUG and result in an isoform (3) with a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.