

## Product datasheet for **RC238173**

### MRPS27 (NM\_001286748) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS27 (NM_001286748) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MRPS27
Synonyms:	MRP-S27; S27mt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC238173 representing NM\_001286748  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGCCTCCATAGTGCGGCGGGGATGCTCCTGGCGGGCAAGTGGTTCTTCTCAGCTCTCTCCTG  
 CAGGTAAGATACCTGCTTTCTCAGCCTATGTAGACAGCCACAAATGGGAAGCAAGAGAAAAAGAACA  
 TTAAGTCTTGTGATCTTGCATCTTTAATGGATAAAACATTTGAGAGAAAGTTGCCTGTTAGTTCTTTA  
 ACAATATCACGGCTTATAGACAACATTTCTCTCGGGAAGAGATAGATCATGCAGAGTATTACCTTTACA  
 AAAAGGGAGAATGCTCATCCAGCAATCCACAGAATTATCCAGGTTTCGACACAGCCCCAACTGCTGGTA  
 CCTGAGAACTGGACTATCCACACCTGGATTAGGCAGTGTCTAAAATATGATGCACAAGACAAAGCCCTA  
 TATACCCTGTAAATAAGGTTCAATATGGAATTTTCCAGATAACTTTACATTCAATTTACTGATGGATT  
 CTTTCATAAAGAAAGAAAATTACAAAGATGCTTTATCTGTGGTTTTGAGGTCATGATGCAAGAAGCCTT  
 TGAAGTGCCTCCACCAACTTCTCCTCTATGTTTTATTTTCATTGCCTGGCAAGAAGACAGACTTC  
 AGTTGGGAAGAGGAGAGAACTTTGGTGCATCCCTTTTGCTTCCAGGCCTAAAACAAAAGAACTCAGTGG  
 GTTTCAGTCCCAGTTGTATGGCTATGCACTTCTTGGGAAGTGGAGTTCGACGAAGGGCTACGGGCTGT  
 GTACCACAATGCCTCTGATATGGAAACCAGGCTACCTTGACAGAGCCCTTCAAGTGTGGAGAAAGTG  
 GCTGCCTCCCCAGAAGACATAAAGCTGTGTAGAGAAGCGCTCGATGTGCTGGGTGCAGTGTGAAGGCTC  
 TGACTTCAGTGTATGGGCTTCAGAGGAGCAGTCCCAAATGATGAAGACAACCAGGGGTGAGAAAACT  
 GGTGGAGCAGTTAGACATCGAGGAAACAGAGCAGTCCAAGCTTCTCAATACCTGGAACGATTTAAGGCC  
 TTAATTTAAGCTTCAAGCTCTGGGCAAAATGAGTCAGAAGTCTTTAAGTCTGACCACCCAGCTTG  
 TCAAGGAAAACTCTCCACCTGTGAAGCAGAGGACATCGCCACCTATGAGCAGAATCTGCAGCAGTGGCA  
 TCTAGACCTTGTACAGTTGATCCAGAGAACAGCAACAGAGGGAGCAAGCGAAGCAGGAGTACCAGGCT  
 CAGAAAGCAGCAAGGCATCTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238173 representing NM\_001286748  
 Red=Cloning site Green=Tags(s)

MAASIVRRGMLLARQVVLPLSPAGKRYLLSSAYVDSHKWEAREKEHYCLADLASLMDKTFERKLPVSSL  
 TISRLIDNISSREEIDHAEYYLYKKGECSSSNPQNSRFRHSPNCWYLRNWTIHTWIRQCLKYDAQDKAL  
 YTLVNVQYGIFFDNFTFNLLMDSFIKKENYKDALSVVFEVMMQEAFFVSTQLLSLYVLFHCLAKKDF  
 SWEEERNFGASLLPLGLKQKNSVGFSSQLYGYALLGKVELQQGLRAVYHNMPLIWKPGYLDRALQVMEKV  
 AASPEDIKLCREALDVLGAVLKALTSADGASEEQSQNDEDNQSEKLVQLDIEETEQSKLPQYLERFKA  
 LHSKLQALGKIESEGLLSLTTQLVKEKLSLSTCEAEDIATYEQNLQQWHLDLVQLIQREQQREQAKQEYQA  
 QKAAKASA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001286748

**ORF Size:** 1284 bp

**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. [More info](#)
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001286748.2](#)
**RefSeq Size:** 2839 bp

**RefSeq ORF:** 1287 bp

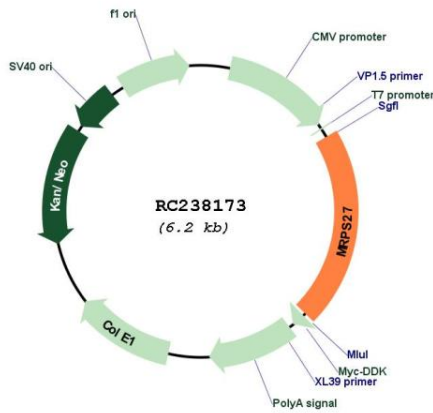
**Locus ID:** 23107

**UniProt ID:** [Q92552](#)
**Cytogenetics:** 5q13.2

**MW:** 49.6 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]

**Product images:**



Circular map for RC238173