

## Product datasheet for **RG238173**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS27 (NM_001286748) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MRPS27
Synonyms:	MRP-S27; S27mt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238173 representing NM_001286748. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGCCTCCATAGTGCGGCGCGGGATGCTCCTGGCGCGCAAGTGGTTCTTCTCAGCTCTCTCCT
GCAGGTAAGAGATACCTGCTTTCTCAGCCTATGTAGACAGCCACAAATGGGAAGCAAGAGAAAAAGAA
CATTACTGTCTTGTGATCTTGCATCTTAAATGGATAAAACATTTGAGAGAAAGTTGCCTGTTAGTTCT
TTAAACAATATCACGGCTTATAGACAACATTTCTCTCGGGAAGAGATAGATCATGCAGAGTATTACCTT
TACAAAAAGGGAGAATGCTCATCCAGCAATCCACAGAATTATTCCAGTTTCGACACAGCCCAACTGC
TGGTACCTGAGAACTGGACTATCCACACCTGGATTAGGCAGTGTCTAAAATATGATGCACAAGACAAA
GCCCTATATACCTTGTAAATAAGTTCAATATGGAAATTTTCCAGATAACTTTACATTTCAATTTACTG
ATGGATTCTTTCATAAAGAAAGAAAATTACAAAGATGCTTTATCTGTGGTTTTTGAGGTCATGATGCAA
GAAGCCTTTGAAGTGCCTTCCACCCAATTCTCTCCCTCTATGTTTTATTTTCATTGCCTGGCAAAGAAG
ACAGACTTCAGTTGGGAAGAGGAGAGGAACTTTGGTGCATCCCTTTTGTCCAGGCCTAAAAACAAAAG
AACTCAGTGGGTTTCAGTCCCAGTTGTATGGCTATGCACTTCTTGGGAAGGTGGAGTTGCAGCAAGGG
CTACGGGCTGTGTACCACAACATGCCTCTGATATGGAAACCAGGCTACCTTGACAGAGCCCTTCAAGTG
ATGGAGAAAGTGGCTGCCTCCCCAGAAGACATAAAGCTGTGTAGAGAAGCGCTCGATGTGCTGGGTGCA
GTGCTGAAGGCTCTGACTTCAGTTCAGTGTGGGCTTCAGAGGAGCAGTCCAAAAATGATGAAGCAACCAAG
GGGTGAGAAAAACTGGTGGAGCAGTTAGACATCGAGGAAACAGAGCAGTCCAAGCTTCTCAATACCTG
GAACGATTTAAGGCCTTACATTCTAAGCTTCAAGCTCTGGGCAAAATTGAGTCAGAAGGTCTTTTAAAGT
CTGACCACCCAGCTTGTCAAGGAAAACTCTCCACCTGTGAAGCAGAGGACATCGCCACCTATGAGCAG
AATCTGCAGCAGTGGCATCTAGACCTTGTACAGTTGATCCAGAGAGAACAGCAACAGAGGGAGCAAGCG
AAGCAGGAGTACCAGGCTCAGAAAGCAGCAAAGGCATCTGCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG238173  
 Blue=ORF Red=Cloning site Green=Tag(s)

MAASIVRRGMLLARQVVLPLQLSPAGKRYLLSSAYVDSHKWEAREKEHYCLADLASLMDKTFERKLPVSS  
 LTISRLIDNISSREEIDHAEYLYKKGECSSSNPQNYSRFRHSPNCWYLRNWTIHTWIRQLKYDAQDK  
 ALYTLVNVKQYGIFFDNFTFNLLMDSFIKKENYKDALSVEVEMMQEAFVSTQLLSLVLFHCLAKK  
 TDFSWEEERNFGASLLPLGLKQKNSVGFSSQLYGYALLGKVELQQGLRAVYHNMPLIWKPGYLDRALQV  
 MEKVAASPEDIKLCREALDVLGAVLKALTSADGASEEQSQNDEDNQSEKLVQLDIEETEQSKLPQYL  
 ERFKALHSKLQALGKIESEGLLSLTTQLVKEKLSTCEAEDIATYEQNLQQWHLDLVQLIQREQQQREQA  
 KQEYQAQKAAKASA  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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.

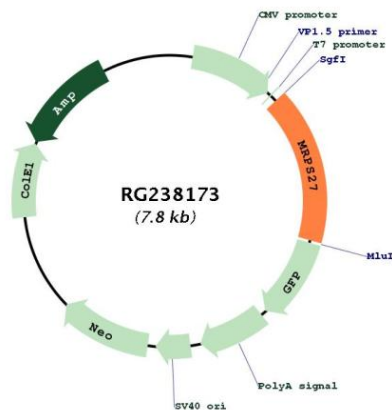
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**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 RG238173