

Product datasheet for **RG209478**

MRPS27 (NM_015084) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS27 (NM_015084) 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:	>RG209478 representing NM_015084 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCCTCCATAGTGCGGCGGGATGCTCCTGGCGCGGCAAGTGGTTCTTCCTCAGCTCTCTCCTG
CAGGTAAGATACTGCTTTCTCAGCCTATGTAGACAGCCACAAATGGGAAGCAAGAGAAAAAGAACA
TTACTGTCTTGCTGATCTTGCATCTTTAATGGATAAAACATTTGAGAGAAAGTTGCCTGTTAGTTCTTTA
ACAATATCACGGCTTATAGACAACATTTCTCCTCGGGAAGAGATAGATCATGCAGAGTATTACCTTTACA
AGTTTCGACACAGCCCAACTGCTGGTACCTGAGAACTGGACTATCCACACCTGGATTAGCAGTGTCT
AAAATATGATGCACAAGACAAAGCCCTATATACCTTGTAAATAAGGTTCAATATGGAATTTTTCCAGAT
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TTTTTGAGGTCATGATGCAAGAAGCCTTTGAAGTGCCTCCACCAACTTCTCTCCCTCTATGTTTTATT
TCATTGCCTGGCAAGAAGACAGACTTCAGTTGGGAAGAGGAGAGAACTTTGGTGCATCCCTTTTGCTT
CCAGGCCATAAACAAGAACTCAGTGGGTTTCAGTCCAGTTGTATGGCTATGCATCTTTGGGAAGG
TGGAGTGCAGCAAGGGCTACGGGCTGTGTACCACAACATGCCTCTGATATGAAACCAGGCTACCTTGA
CAGAGCCCTTCAAGTGTGAGAAAGTGGCTGCCTCCCCAGAAGACATAAAGCTGTGTAGAGAAGCGCTC
GATGTGCTGGGTGCAGTCTGAAGGCTCTGACTTCAGCTGATGGGGCTTCAGAGGAGCAGTCCCAAAATG
ATGAAGACAACCAGGGTTCAGAAAACTGGTGGAGCAGTTAGACATCGAGGAAACAGAGCAGTCCAAGCT
TCCTCAATACCTGGAACGATTTAAGGCCTTACATTCTAAGCTTCAAGCTCTGGGCAAAATTGAGTCAGAA
GGTCTTTAAGTCTGACCACCCAGCTTGTCAAGGAAAACTCTCCACCTGTGAAGCAGAGGACATCGCCA
CCTATGAGCAGAACTGCAGCAGTGGCATCTAGACCTTGTACAGTTGATCCAGAGAGAACAGCAACAGAG
GGAGCAAGCGAAGCAGGAGTACCAGGCTCAGAAAGCAGCAAGGCATCTGCC

ACGGTACGGCGCCGCTCGAG - GFP Tag - GTTTAA



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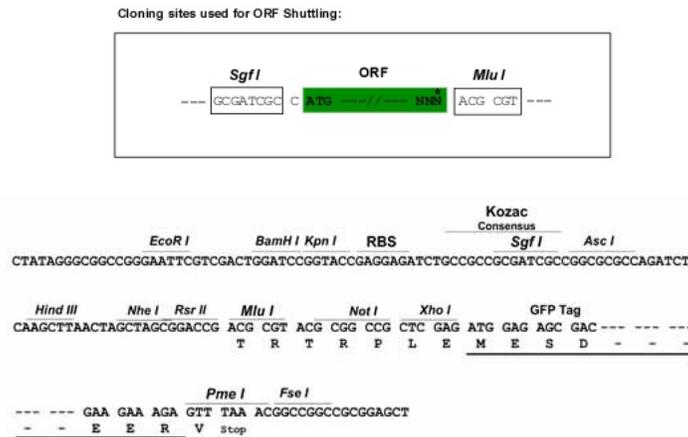
Protein Sequence: >RG209478 representing NM_015084
 Red=Cloning site Green=Tags(s)

MAASIVRRGMLLARQVVLPQLSPAGKRYLLSSAYVDSHKWEAREKEHYCLADLASLMDKTFERKLPVSSL
 TISRLIDNISSREEIDHAEYYL YKFRHSPNCWYLRNWTIHTWIRQCLKYDAQDKALYTLVNVQYGFDP
 NFTFNLLMDSFIKKENYKDALSVVFEVMMQEA FEVPSTQLLSL YVLFHCLAKKTD FSWEEERNFGASLLL
 PGLKQKNSVGFSSQLYGYALLGKVELQQGLRAVYHNMP LIWKPGYLDRALQVMEKVAASPEDIKLCREAL
 DVLGAVLKALTSADGASEEQSQNDEDNQSEKLV EQLDIEETE QSKLPQYLERFKALHSLKQALGKIESE
 GLLSLTTQLVKEKLTCEAEDIATYEQNLQQWHLDLVQLIQREQQREQAKQEYQAQKAAKASA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015084

ORF Size: 1242 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_015084.3](#)

RefSeq Size: 2631 bp

RefSeq ORF: 1245 bp

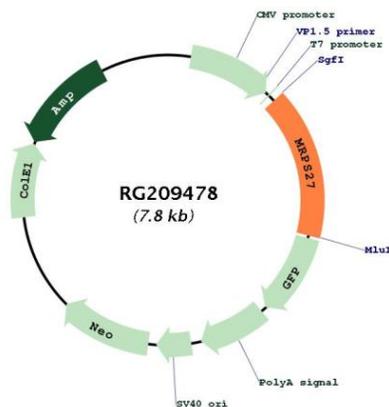
Locus ID: 23107

UniProt ID: [Q92552](#)

Cytogenetics: 5q13.2

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 RG209478