

Product datasheet for **RG237696**

MRPS27 (NM_001286751) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS27 (NM_001286751) 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:	>RG237696 representing NM_001286751. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATAAAACATTTGAGAGAAAGTTGCCTGTTAGTTCCTTAACAATATCACGGCTTATAGACAACATT
TCCTCTCGGGAAGAGATAGATCATGCAGAGTATTACCTTTACAAGTTTCGACACAGCCCCAACTGCTGG
TACCTGAGAACTGGACTATCCACACCTGGATTAGGCAGTGTCTAAAATATGATGCACAAGACAAAGCC
CTATATACCCTTGTAATAAGGTTCAATATGGAATTTTCCAGATAACTTTACATTCAATTTACTGATG
GATTCTTTCATAAAGAAAGAAAATTACAAAGATGCTTTATCTGTGGTTTTGAGGTCATGATGCAAGAA
GCCTTTGAAGTGCCTTCCACCAACTTCTCCTCTATGTTTTATTTTCATTGCCTGGCAAAGAAGACA
GACTTCAGTTGGGAAGAGAGAGAACTTTGGTGCATCCCTTTGCTTCCAGGCCAAAACAAAAGAAC
TCAGTGGGTTTCCAGTTCCAGTTGTATGGCTATGCACTTCTTGGGAAGGTGGAGTTGCAGCAAGGGCTA
CGGGCTGTGTACCACAACATGCCTCTGATATGGAACCAGGCTACCTTGACAGAGCCCTTCAAGTGATG
GAGAAAGTGGCTGCCTCCCAGAAGACATAAAGCTGTGTAGAGAAGCGCTCGATGTGCTGGGTGCAGTG
CTGAAGGCTCTGACTTCAGCTGATGGGGCTTCCAGAGGAGCAGTCCAAAATGATGAAGACAACAGGGG
TCAGAAAACTGGTGGAGCAGTTAGACATCGAGGAAACAGAGCAGTCCAAGCTTCTCAATACCTGGAA
CGATTTAAGGCCTTACATTCTAAGCTTCAAGCTCTGGGCAAAATTGAGTCAGAAGGTCTTTAAGTCTG
ACCACCCAGCTTGTCAAGGAAAACTCTCCACCTGTGAAGCAGAGGACATCGCCACCTATGAGCAGAAT
CTGCAGCAGTGGCATCTAGACCTTGTACAGTTGATCCAGAGAGAACAGCAACAGAGGGAGCAAGCGAAG
CAGGAGTACCAGGCTCAGAAAGCAGCAAAGGCATCTGCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237696
 Blue=ORF Red=Cloning site Green=Tag(s)

MDKTFERKLPVSSLTISRLLIDNISSREEIDHAEYLYKFRHSPNCWYLRNWTIHTWIRQCLKYDAQDKA
 LYTLVNVKQYGIKFPDNFTFNLLMDSFIKKENYKDALSVVFEVMMQEAPEVPTQLLSLYLVFHLAKKT
 DFSWEEERNFGASLLPLGLKQKNSVGFSSQLYGYALLGKVELQQGLRAVYHNMPLIWKPGYLDLALQVM
 EKVAASPEDIKLCREALDVLGAVLKALTSADGASEEQSQNDEDNQSEKLVQLDIEETEQLPQYLE
 RFKALHSLKQALGKIESEGLLSLTTQLVKEKLSACEADIATYEQNLQQWHLDLVQLIQREQQREQAK
 QEYQAQKAAKASA
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001286751

ORF Size: 1074 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).

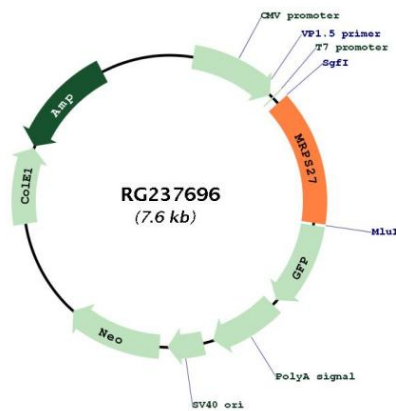
RefSeq: [NM_001286751.2](#)

RefSeq Size: 2765 bp

RefSeq ORF: 1077 bp
 Locus ID: 23107
 Cytogenetics: 5q13.2
 MW: 41.8 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 RG237696