

Product datasheet for RC237696

MRPS27 (NM_001286751) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPS27 (NM_001286751) 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)
ORF Nucleotide Sequence:	>RC237696 representing NM_001286751 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATAAAACATTTGAGAGAAAGTTGCCTGTTAGTTCCTTAACAATATCACGGCTTATAGACAACATTT
CCTCTCGGAAGAGATAGATCATGCAGAGTATTACCTTTACAAGTTTCGACACAGCCCCAACTGCTGGTA
CCTGAGAACTGGACTATCCACACCTGGATTAGGCAGTGTCTAAAATATGATGCACAAGACAAAGCCCTA
TATACCCTTGAAATAAGGTTCAATATGGAATTTTTCCAGATAACTTTACATTCAATTTACTGATGGATT
CTTTCATAAAGAAAGAAAATTACAAAGATGCTTTATCTGTGGTTTTGAGGTCATGATGCAAGAAGCCTT
TGAAGTGCCTTCCACCAACTTCTCCCTCTATGTTTTATTTCAATTGCCTGGCAAAGAAGACAGACTTC
AGTTGGGAAGAGGAGAGGAACCTTGGTGCATCCCTTTTGCTTCCAGGCCTAAAACAAAAGAACTCAGTGG
GTTTCAGTCCCAGTTGTATGGCTATGCACTTCTTGGGAAGGTGGAGTTGCAGCAAGGGCTACGGGCTGT
GTACCACAATGCTCTGATATGGAAACCAGGCTACCTTGACAGAGCCCTTCAAGTGTGGAGAAAGTG
GCTGCCTCCCAGAAGACATAAAGCTGTGTAGAGAAGCGCTCGATGTGCTGGGTGCAGTGTGAAGGCTC
TGACTTCAGCTGATGGGGCTTCCAGAGGAGCAGTCCAAAATGATGAAGACAACCAGGGGTGAGAAAACT
GGTGGAGCAGTTAGACATCGAGGAAACAGAGCAGTCCAAGCTTCTCAATACCTGGAACGATTTAAGGCC
TTACATTCAAGCTTCAAGCTCTGGGCAAAATTGAGTCAGAAGGTCTTTAAGTCTGACCACCCAGCTTG
TCAAGGAAAAACTCTCCACCTGTGAAGCAGAGGACATCGCCACCTATGAGCAGAATCTGCAGCAGTGGCA
TCTAGACCTTGTACAGTTGATCCAGAGAGAACAGCAACAGAGGGGCAAGCGAAGCAGGAGTACCAGGCT
CAGAAAGCAGCAAAGGCATCTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC237696 representing NM_001286751
 Red=Cloning site Green=Tags(s)

MDKTFERKLPVSSLTISRLLIDNISSREEIDHAEYYLYKFRHSPNCWYLRNWTIHTWIRQCLKYDAQDKAL
 YTLVNVKQYGIKPNFTFNLLMDSFIKKENYKDALSVVFEVMMQEAFAEVPSTQLLSLYVLFHCLAKKTD
 SWEEERNFGASLLLPGLKQKNSVGFSSQLYGYALLGKVELQQGLRAVYHNMPLIWKPGYLDRALQVMEKV
 AASPEDIKLCREALDVLGAVLKALTSADGASEEQSQNDEDNQGSEKLVQQLDIEETEQQSKLPQYLERFKA
 LHSKLQALGKIESEGLLSLTTQLVKEKLSSTCEAEDIATYEQNLQQWHLDLVQLIQREQQREQAQEQEYQA
 QKAAKASA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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).

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_001286751.2](#)

RefSeq Size: 2765 bp

RefSeq ORF: 1077 bp

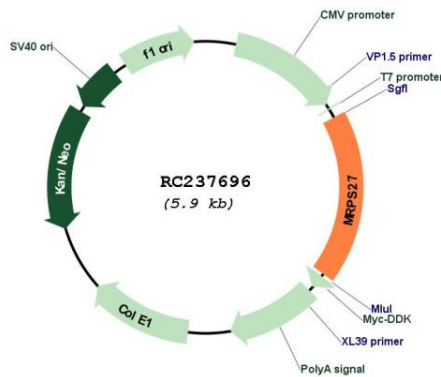
Locus ID: 23107

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 RC237696