

Product datasheet for MR203136

Mrps27 (BC049149) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mrps27 (BC049149) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mrps27
Synonyms:	2610028H14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203136 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGCAAGAAGCCTTTGACGTGCCGTCCACCCAGTTTCTCCTCTATGTTTTATACCGTTGCCTAG
CAGAGAAGACGGAGCTCACATGGGAAGAAGAAAGAGACTTTGGGGCGTCCCTCTTGCTTTCTGGCCTGAA
ACAAAGGAACACAGTGGCCTGAGTCCAGCTGTATGGCTATGCACTTCTCGGGAAGGTGGAAGTGCAG
CGTGGGGTGCGGGCTGTATACCACGGCATGCCCTGATGTGGACACCAGGCTACCTCGACAGAGCCCTCC
AAGTGATGGAGAGGGTGGCCTCCTCCCTGAAGACCTCAAGCTGGGTAGAGAAGTGTGCTCGATGTGCTGGA
TGGAGTCCTGAAGGTGGTACGCTCCAGATGTCCAGACTTCAGAGGCACAGCCTCAGGAAGGTGAAGAT
GGCTTGGGCTCAGCAAACCTGGTGGAGCAGCTAGACACTGAGGAACCAGAACAGTCCAAGCTTCCCCGAT
ACCTCGAGCGCTTTCAGGCCTCTCGGTCTAACTGCAGGAGCTGAACAGAGTTGAGTCTGAAAGTCTTTT
GACTCTGACCACCCAGCTTGAAAAGAAAACTCCCCGCTGTGAGGCCGAGGACCTGGCCACCTACGAG
CAGAACTCCGTGAGTGGCACCTGGAGCGGGTGCAGTTGATCCAGAGGGAGCAGGAACAGAGGGAGAAGG
CCAAGCAAGAGTACCAGGCGCTGAGTGCAGCAGAGAAAGCAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203136 protein sequence
Red=Cloning site Green=Tags(s)

MMQEAFDVPSTQFLSLVYLRYCLAEKTEL TWEERDFGASLLLSGLKQRNTVGLSSQLYGYALLGKVELQ
 RGVRAVYHGMPLMWTTPGYLDRALQVMERVASSPEDLKLGREVLDVLDGVLKVVTPDVQTSQAQPQEGED
 GLGSANLVEQLDTEEPQSKLPRYLERFQASRSKLQELNRVESESLTTLTTLVKEKLPACEAEDLATYE
 QKLREWHLERVQLIQREQEQREKAKQEYQALSAAEKAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC049149

ORF Size: 744 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: [BC049149](#), [AAH49149](#)

RefSeq Size: 1833 bp

RefSeq ORF: 746 bp

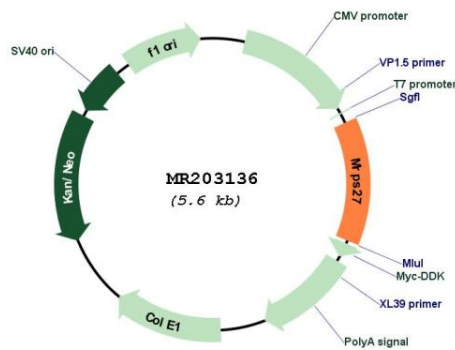
Locus ID: 218506

Cytogenetics: 13 D1

MW: 28.2 kDa

Gene Summary: RNA-binding component of the mitochondrial small ribosomal subunit (mt-SSU) that plays a role in mitochondrial protein synthesis. Stimulates mitochondrial mRNA translation of subunit components of the mitochondrial electron transport chain. Binds to the mitochondrial 12S rRNA (12S mt-rRNA) and tRNA(Glu). Overexpressed in hepatocellular carcinoma tissues compared with adjacent non-tumoral liver tissues.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203136