

## Product datasheet for **MG203136**

### Mrps27 (BC049149) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mrps27 (BC049149) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mrps27
Synonyms:	2610028H14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203136 representing BC049149 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGCAAGAAGCCTTTGACGTGCCGTCCACCCAGTTTCTCTCCCTCTATGTTTTATACCGTTGCCTAG  
CAGAGAAGACGGAGCTCACATGGGAAGAAGAAAGAGACTTTGGGGCGTCCCTCTTGCTTTCTGGCCTGAA  
ACAAAGGAACACAGTGGCCTGAGTCCAGCTGTATGGCTATGCACTTCTCGGAAGGTGGAAGTGCAG  
CGTGGGGTGGGGCTGTATACCACGGCATGCCCTCTGATGTGGACACCAGGCTACCTCGACAGAGCCCTCC  
AAGTGATGGAGAGGGTGGCCTCCTCCCTGAAGACCTCAAGCTGGGTAGAGAAGTCTCGATGTGCTGGA  
TGGAGTCCCTGAAGGTGGTACGTCTCCAGATGTCCAGACTTCCAGAGCACAGCCTCAGGAAGGTGAAGAT  
GGCTTGGGCTCAGCAAACCTGGTGGAGCAGCTAGACACTGAGGAACCAGAACAGTCCAAGCTTCCCCGAT  
ACCTCGAGCGCTTTCAGGCCTCTCGGTCTAAACTGCAGGAGCTGAACAGAGTTGAGTCTGAAAGTCTTTT  
GACTCTGACCACCCAGCTTGAAAAGAAAACTCCCCGCCTGTGAGGCCGAGGACCTGGCCACCTACGAG  
CAGAACTCCGTGAGTGGCACCTGGAGCGGGTGCAGTTGATCCAGAGGGAGCAGGAACAGAGGGAGAAGG  
CCAAGCAAGAGTACCAGGCGCTGAGTGCGGCAGAGAAAGCAGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203136 representing BC049149  
 Red=Cloning site Green=Tags(s)

MMQEAFDVPSTQFLSLVLYRCLAEKTEL TWEERDFGASLLL SGLKQRNTVGLSSQLYGYALLGKVELQ  
 RGVRAVYHGMPLMWTTPGYLDRALQVMERVASSPEDLKL GREVLDVLDGVLKVVTSPDVQTSEAQPQEGED  
 GLGSANLVEQLDTEEPQSKLPRYLERFQASRSKLQELNRVESESLTTLTQLVKEKLPACEAEDLATYE  
 QKLREWHLERVQLIQREQEQREKAKQEYQALSAAEKAA

TRTRPLE - GFP Tag - V

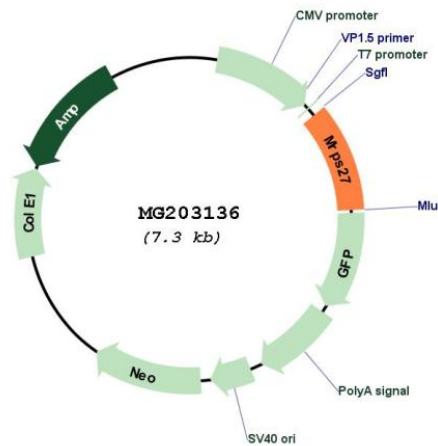
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC049149

ORF Size: 746 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC049149</a> , <a href="#">AAH49149</a>
<b>RefSeq Size:</b>	1833 bp
<b>RefSeq ORF:</b>	746 bp
<b>Locus ID:</b>	218506
<b>Cytogenetics:</b>	13 D1
<b>Gene Summary:</b>	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]