

## Product datasheet for **RR202491**

### Mrpl16 (NM\_001009647) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mrpl16 (NM\_001009647) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Mrpl16  
**Synonyms:** MGC109535  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR202491 representing NM\_001009647  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGAGGCTACTGACGCGCGCCCGCCGCTCTGGCGGATGCACTTTTCAGATACTGGGCAGCCC  
TCCCACCAGTGTGGTCTGAAGACGCTCCTCCAGTTCCAACCTTTGAAAATGTCTCCATCCCTGAAAG  
ATCCAAACTTAAATTTGTTGAAAGAGTCCCACTTGTGCCAAAAGTAAGGAGAGAACCTAAAAATCTGAAG  
GACATACGAGGGCCTCAGCTGAAGCCACTGACTTCACAGAAGGCAATTTGCAATTTTGGCACTTGGAG  
GTGTTTATCTTCACTGGGGCCATTTTGAATGATGCGCTTGACAATCAATCGATTTATGGATCCCAAGAA  
CATGTTTGCCATATGGCGAGTGCCAGCCCTTTCAAGCCCATCACTCGAAAAGGTGTTGGGCAGCGCATG  
GGGGGAGGTAAAGGTGCCATTGATCACTATGTGACACCTGTGAAGACTGGATGCCTCATAGTAGAGATGG  
GTGGACGCTGTGAATTTGAAGAGGTAAGCGTGTCTGAACCAGGTTGCCACAAGTTGCCCTTTCCAGC  
AAAGGCCGTGAGCCGTAAGACTCTAGAAAAGATGCACAAAATCAAAAAGAAAGAGAAGCTTAATAACCAG  
AATCCCTGGACCTTTGAGCGCATAGCCACTGCGAACATGTTTGGCATACGGAAATTCCTGAGCCCATATG  
ACCTGACTCAGAAAGGGCGATATTGGGGCAAATCTACATGCCCAAGCGCGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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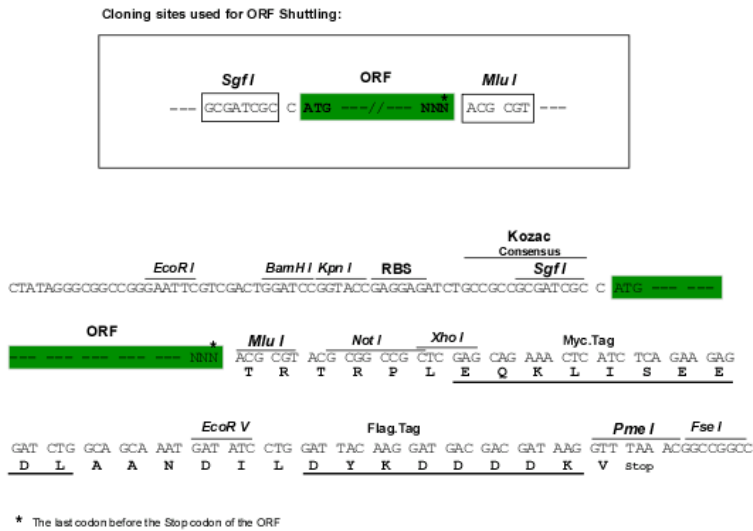
**Protein Sequence:** >RR202491 representing NM\_001009647  
 Red=Cloning site Green=Tags(s)

MWRLLTRAPAPLWRMHFSDTWAALPTSAGLKTLLPVPTFENVSIPEKSLKLFVERVPLVPKVRREPKNLK  
 DIRGPSAEATDFTEGNFAILALGGYLHWGHFEMMRLTINRFMDPKNMF AIWRVPAPFKPI TRKGVGQRM  
 GGGKGAIDHYVTPVKTGCLIVEMGGRCEFEVSRVNLNQVAHKLFPKAVSRKTLKMHQNKERELNMQ  
 NPWTFERIATANMFGIRKFLSPYDLTQKGRYWGKFYMPKRV

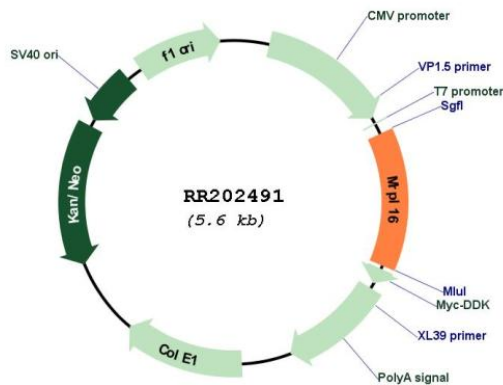
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001009647  
**ORF Size:** 753 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="#">NM_001009647.1</a> , <a href="#">NP_001009647.1</a>
<b>RefSeq Size:</b>	1175 bp
<b>RefSeq ORF:</b>	756 bp
<b>Locus ID:</b>	293754
<b>UniProt ID:</b>	<a href="#">Q5M818</a>
<b>Cytogenetics:</b>	1q43
<b>MW:</b>	28.9 kDa
<b>Gene Summary:</b>	component of 39s subunit of mitochondrial ribosome protein; involved in mitochondrial protein synthesis [RGD, Feb 2006]