

Product datasheet for **MR218598**

Mrpl47 (NM_029017) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mrpl47 (NM_029017) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mrpl47
Synonyms:	4833424P18Rik; CGI-20; CGI-204; Gm9859; L47mt; MRP-L47; MTF/L47; NCM; NCM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR218598 representing NM_029017 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGCGACCACTCTAGTGGGTATTTGTAGAAGAGCCTCAGCGTTCCTGAAGGCAGCTTGTTCCCTAG
 TAAATCCCAAGGACGCTGCTCACTCGGGTTCAGGTCTTCTCTTAGTTTGTACATAAGAACACACCACA
 TGTACATCTTTCTCCAGTGTAATTACTTCATACCAGTTGTCAAGGAAAGGACTGGAAGAATTTTTT
 GATGACCCAAAGAATTGGGGGAAGAAAAAGTCAAATCTGGAGCTTCATGGACCTGCCAGCAGCTGAGGA
 AAAAAAGTAACGAAGACTTACATAAGCTTTGGTATGTCCTTCTGAAGGAAAGAAACATGCTTCTAACTCT
 GGAGCAGGAGGCCAAGCGACAGAGGTTGCCAATGCCAAGTCCGGAGCGCTTAGAAAAGGTCGTTGATTCC
 ATGGATAACGTAGATAAAGTTGTCCAGGAGAGGGAAGATGCTCTAAGGCTTCTTCAGACCGGTCAAGAAA
 AGCCCAGACCCGGTGCTTGGAGAAGGGACATCTTTGGACGAATTGTCTGGCACAATTCAAGCAGTGGCC
 TATACCTTGGTACCTAAATAAAGATACAACAGGAGGCGGTTCTTCGCAATGCCTTATGTGGATCGCTTT
 ATCAGACTAAGAATTGAGAAACACGCCGCATTGAAGCAAGAAAGAGAAGTTTACAGAAAAAGAAAGAAA
 AAATTCTCCATGCAAAGTCCCACATCTCTCAAGAACGGAAATCAAGTAGTGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR218598 representing NM_029017
 Red=Cloning site Green=Tags(s)

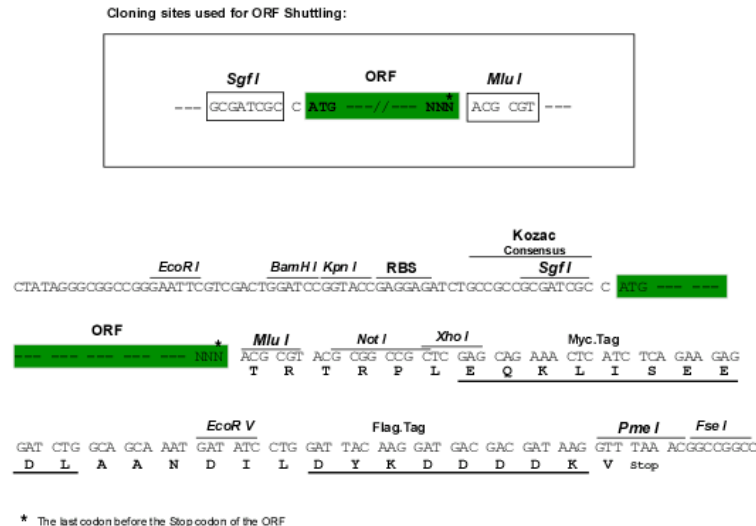
MAATSLVGICRRASAFLLKAACSLVNPKDAAHSGCRSSLSLLHKNTPHVTSFLQCKLLHTLSRKGLEEFF
 DDPKNWGEEKVKSASWTQQLRNKSNEDLHKLWYVLLKERNMLLTLEQAKRQRLPMPSPERLEKVVDS
 MDNVDKVVQEREDALRLLTGTQEKPRPGAWRRDIFGRIVVHKFKQWPIPWYLNKRYNRRRFFAMPYVDRF
 IRLRIEKHARIEARKRSLQKKKEKILHAKFPHLSQERKSSSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9079_d12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029017

ORF Size: 756 bp

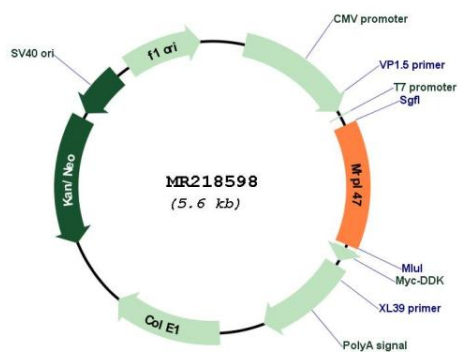
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none"> 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_029017.2, NP_083293.1</u>
RefSeq Size:	899 bp
RefSeq ORF:	759 bp
Locus ID:	74600
UniProt ID:	<u>Q8K2Y7</u>
Cytogenetics:	3 A3
MW:	29.7 kDa
Gene Summary:	<p>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 39S subunit protein. This gene is immediately adjacent to the gene for BRG1/brm-associated factor 53A (also known as BAF complex 53 kDa subunit protein A in humans) in a tail-to-tail orientation. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for MR218598