

Product datasheet for **RC224790**

MRPL39 (NM_080794) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	MRPL39
Synonyms:	C21orf92; L5mt; L39mt; MRP-L5; MRPL5; MSTP003; PRED22; PRED66; RPML5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC224790 representing NM_080794
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGCGCTGGCCATGGGTTCCCGGGCGCTGCGGCTCTGGCTGGTCGACCCGGTGGCGGGATCAAAT
GGAGATTTATAGCAACATCGCCAGCTTCTCAGCTGTCACCGACAGAATTGACAGAAATGCGGAATGATCT
CTTTAATAAAGAGAAAGCCAGGCAGTTATCATTAACTCCCCGAAGTGAAGATAGAAGTTAAGCATGTT
GGGAAACTGACCCCGTACTGTCTTCGTGATGAATAAAACATTTCAACTCCCTACAGTTGTGCCATGC
ATTTAAGCGAGTGGTATTGCAGGAAGTCCATTCTGGCTCTGGTGGATGGACAGCCTTGGGACATGTATAA
GCCTTTAACAAAGTCTGTGAAATTAATTTCTTACTTTCAAAGATTGTGATCCAGGAGAAGTGAATAAG
GCATATTGGCGTTCCTGTGCTATGATGATGGGCTGTGTGATAGAGAGGGCATTCAAAGATGAATATATGG
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CAAAGTGTGAGTGGATGCCAACAAAGAGAACTTACGTTCTTCAAAAAGATGCTCATGCTTTAATT
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AGTACAAAGTAGATTTATAGAAGAGAAGGCATCTCAGAACCCTGAGAGAATAGTCAAGCTACACAGAAT
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TCAGCAGTTCACAATCTTCAACCCACCCAGCCAAGTCTCATACGAAGATTCAGGGCGTGTCTTTACCTG
TTCCTTAAGAGCACATTTTACAATATGGGATAAGCTATTGAAAGATCTCGGAAAATGACTCCATTTCC
CATTCTCCTTCTATTTACTACGCAGTCATTCTTCACTACCTCGCCTGAGTCGTACCTCCTCCATGGAACA
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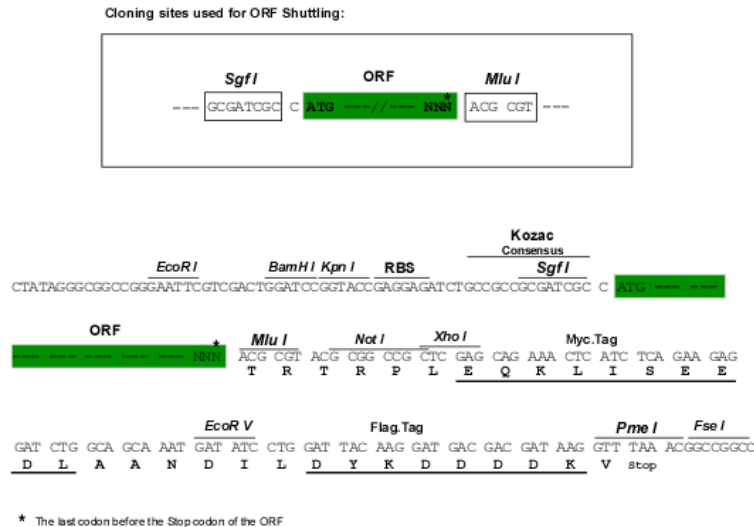
Protein Sequence: >RC224790 representing NM_080794
Red=Cloning site Green=Tags(s)

MEALAMGSRALRLWL VAPGGGIKWRFIATSPASQLSPTELTEMNDLFNKEKARQLSLTPRTEKIEVKHV
GKTDPGTVFVMKNISTPYS CAMHLS EWYCRKSILALVDGQPWDMYKPLTKSCEIKFLTFKDCDPGEV NK
AYWRSCAMMMGCVIERAFKDEYMNVLVRAPEVPVISGAF CYDVVLDSKLDWMPTKENLRSFTKDAHALI
YKDLPFETLEVEAKVALEIFQHSKYKVDFIEEKASQNP ERIVKLHRIGDFIDVSEGPLIPRTSICFQYEV
SAVHNLQPTQPSLIRRFQGVSLPVHLRAHFTIWDKLLERSRKMTFPPI LLLFTTQSFFTTSPESYLLHGT
VSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080794

ORF Size: 1059 bp

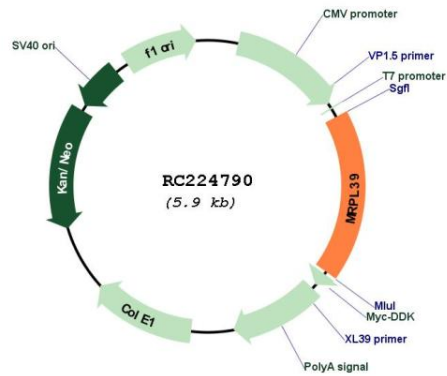
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_080794.3, NP_542984.2</u>
RefSeq Size:	1171 bp
RefSeq ORF:	1062 bp
Locus ID:	54148
UniProt ID:	<u>Q9NYK5</u>
Cytogenetics:	21q21.3
Domains:	TGS
MW:	40.5 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 39S subunit protein. Two transcript variants encoding distinct isoforms have been described. A pseudogene corresponding to this gene is found on chromosome 5q. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC224790