

## Product datasheet for **RC204329**

### MRPL19 (NM\_014763) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL19 (NM_014763) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MRPL19
Synonyms:	L19mt; MRP-L15; MRP-L19; MRPL15; RLX1; RPML15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204329 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGGCTGCATTGCAGCGGGGCACTGGGCTGCAATGGGCTAGGCCGGAGTTTCCAAGCCGCCAGGA  
CTCTGCTCCCCCGCCGGCCTCTATCGCCTGCAGGGTCCACGCGGGGCTGTCCGGCAGCAGAGCACTGG  
GCCTTCCGAGCCCGGTGCGTTCCAACCGCCGCCAAACCGGTCATCGTGGACAAGCACCGCCCGTGAA  
CCGGAACGCAGGTTCTTGAGTCTGAATTCATTCCTCGAAGGGGAAGAACAGATCCTCTGAAATTTCAA  
TAGAAAGAAAAGATATGTTAGAAAGGAGAAAAGTACTCCACATTCAGAGTTCTATGTTGGAAGTATTCT  
TCGTGTTACTACAGCTGACCCATATGCCAGTGGAAAAATCAGCCAGTTTCTGGGGATTTGCATTCAGAGA  
TCAGGAAGAGGACTTGGAGCTACTTTCATCCTTAGGAATGTTATCGAAGGACAAGGTGTCGAGATTTGCT  
TTGAACTTTATAATCCTCGGGTCCAGGAGATTCAGGTGGTCAAATTAGAGAAACGGCTGGATGATAGCTT  
GCTATACTTACGAGATGCCCTTCTGAATATAGCACTTTTGATGTGAATATGAAGCCAGTAGTACAAGAG  
CCTAACCAAAAAGTTCTGTAAATGAGCTGAAAGTAAAAATGAAGCCTAAGCCCTGGTCTAAACGCTGGG  
AACGTCCAAATTTAATATTAAGGAATCAGATTTGATCTTTGTTAACTGAACAGCAAAATGAAAGAAGC  
TCAGAAGTGGAATCAGCCATGGCTTGAATTTGATATGATGAGGGAATATGATACTTCAAAAATTTGAAGCT  
GCAATATGGAAGGAAATGAAGCGTCGAAAAGGTCT

**ACGCGT**ACGCGGCGCCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC204329 protein sequence  
Red=Cloning site Green=Tags(s)

MAACIAAGHWAAMGLGRSFQAARTLLPPPASIACRVHAGPVRQQSTGPSEPGAFQPPPKPVIVDKHRPVE  
 PERRFLSPEFIPRRGRDPLKQIERKDMLERRKVLHIPEFYVGSILRVTTADPYASGKISQFLGICIQR  
 SGRGLGATFILRNVIEGQVEICFELYNPRVQEIQVVKLEKRLDSSLYLRLDALPEYSTFDVNMKPVVQE  
 PNQKVPVNELKVKMKPKPWSKRWERPNFNIGIRFDLCLTEQQMKEAQKWNQPWLEFDMMREYDTSKIEA  
 AIWKEIEASKRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6171\\_a01.zip](https://cdn.origene.com/chromatograms/mk6171_a01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014763

**ORF Size:** 876 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:** [NM\\_014763.4](#)

**RefSeq Size:** 7827 bp

**RefSeq ORF:** 879 bp

**Locus ID:** 9801

**UniProt ID:** [P49406](#)

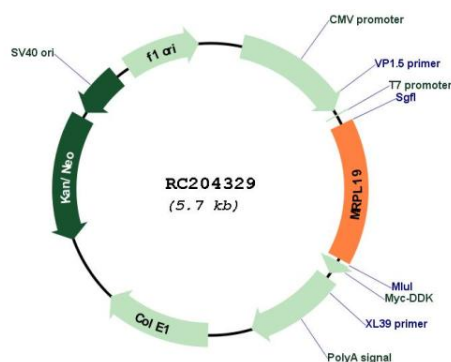
**Cytogenetics:** 2p12

**Domains:** Ribosomal\_L19

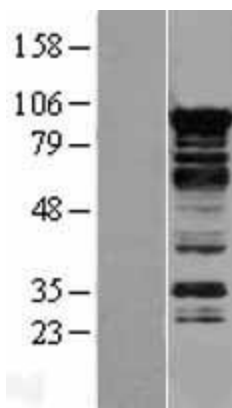
**MW:** 33.5 kDa

**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. [provided by RefSeq, Jul 2008]

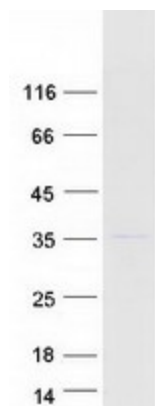
## Product images:



Circular map for RC204329



Western blot validation of overexpression lysate (Cat# [LY402374]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204329 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MRPL19 protein (Cat# [TP304329]). The protein was produced from HEK293T cells transfected with MRPL19 cDNA clone (Cat# RC204329) using MegaTran 2.0 (Cat# [TT210002]).