

## Product datasheet for RC201630

### MRPL3 (NM\_007208) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | MRPL3 (NM_007208) Human Tagged ORF Clone                          |
| Tag:                      | Myc-DDK   |
| Symbol:                   | MRPL3   |
| Synonyms:                 | COXPD9; MRL3; RPML3   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >RC201630 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGGTTGGAGGCTGCTGACGCAGGTCGGCGCCAGGTGCTGGGTCGACTCGGGACGGCCTGGGTG  
CTGCCCTGGGCCGGGAAACAGAACACACATCTGGCTTTTGTAGAGGCTTTCATGAAAGAGTGGTAC  
ATGGTGGATGAGCATCTTTCTGAAGAAAATGCCATTCATTAAGCAGTTGGTCTCTGATGAAGATAAA  
GCCCAATTAGCAAGTAACTGTCTCTGAAAGATGAACCATGGCTATACATCCTTGGGAACAGGTT  
CCTTTAGAGTTGGTCTTATTGCCTTGAAGCTGGGCATGATGCCTTATGGACCAAGGATGGTCAAAAGCA  
TGTGGTCACATTACTTCAGGTACAAGACTGTCTGCTTAAAATATACGTCAAAGGAAAACGTAAATGGA  
AAAATGGCAACCTGTCTGTAGGAGGAAAAACTGTATCACGTTTTTCGTAAGCTACATCCATTTGGAAT  
TTTACCGGAACTTGGATTGCCGCCGAAACAGACAGTTAAAATCTTAAATAACAGATAATGCTGCAAT  
TAAACCAGGCACTCCTCTTATGCTGCTCACTTTCGTCCAGGACAGTATGTGGATGTACAGCCAAAAC  
ATTGGTAAAGTTTTCAAGGTGTCATGAAAAGATGGGGATTTAAAGGCCAGCCTGCTACGCATGGTCAA  
CGAAAACCCACAGGAGACCTGGAGCTGTTGCAACTGGTGATATTGGCAGAGTCTGGCCTGGAACTAAAAT  
GCCTGGAAAAATGGGAAACATATACAGGACAGAATATGGACTGAAAGTGTGGAGAATAAACACAAAGCAC  
AACATAATCTATGTAATGGCTGTACCTGGACATAAAAATTGCTTAGTAAAGTCAAAGATTCTAAAC  
TGCTGCATATAAGGATCTCGGTAAAAATCTACCATTCCCTACATATTTTCTGATGGAGATGAAGAGGA  
ACTGCCAGAAGATTTGTATGATGAAAACGTGTGTACGCCGGTGCCTTCTATTACATTTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC201630 protein sequence  
Red=Cloning site Green=Tags(s)

MPGWRLLTQVGAQVLGRLGDGLGAALGPGNRTHIWL FVRGLHGKSGTWWDEHLSEENVPF IKQLVSDDEK  
 AQLASKLCPLKDEPWPIHPWEPGSFRVGLIALKLGMMPLWTKDGGQKHVVTL LQVQDCHVLKYTSKENCNG  
 KMATLSVGGKTVSRFRKATSILEFYRELGLPPKQTVKIFNITDAAAIKPGTPLYAAHFRPGQYVDVTAKT  
 IGKGFQGVMKRWGFKGQPATHGQTKTHRRPGAVATGDI GRVWPGTKMPPGKMGNIYRTEYGLKVRINTKH  
 NIIYVNGSVPGHKNCLVKYKDSKLPAYKDLGKNLPFPPTYFPDGDDEEELPEDLYDENVCQPGAP SITFA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6299\\_e05.zip](https://cdn.origene.com/chromatograms/mk6299_e05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007208

**ORF Size:** 1044 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\\_007208.4](#)

**RefSeq Size:** 1781 bp

**RefSeq ORF:** 1047 bp

**Locus ID:** 11222

**UniProt ID:** [P09001](#)

**Cytogenetics:** 3q22.1

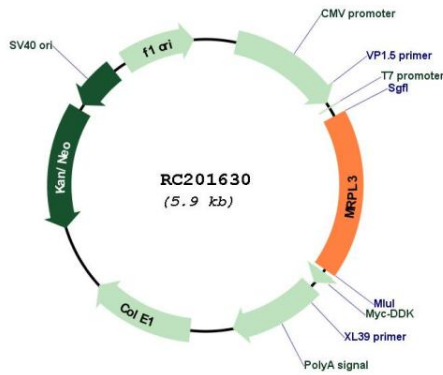
**Domains:** Ribosomal\_L3

**Protein Families:** Druggable Genome

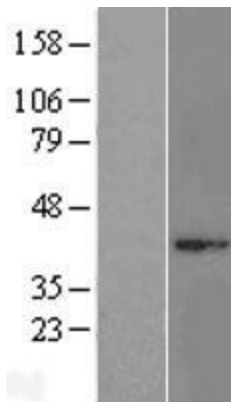
**MW:** 38.6 kDa

**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 that belongs to the L3P ribosomal protein family. A pseudogene corresponding to this gene is found on chromosome 13q. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC201630



Western blot validation of overexpression lysate (Cat# [LY416123]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201630 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).