

Product datasheet for **RG200861**

MRPL4 (NM_146388) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPL4 (NM_146388) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MRPL4
Synonyms:	CGI-28; L4mt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200861 representing NM_146388 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGCTGCAGTTTCGTCCGGCCGGGGCGCGGGCCTGGCTTCGGCCTACCGGCAGCCAGGGCCTGAGTTCCC
TGGCGGAAGAGGCAGCGCGTGCACCGAGAACCCGGAGCAGGTGGCGAGCGAGGGTCTCCCGAGCCCGT
GCTGCGCAAAGTCGAGCTCCCGGTACCCACTCATCGACGCCAGTGCAGGCCTGGTTCGAGTCTTGCGG
GGCTTCGAGCAGGAGCGCGTGGCCTGGCCGACCTGCACCCGATGTTTTCGCCACCGCGCCAGGCTGG
ACATACTGCACCAGTTGCTATGTGGCAGAAGAACTTCAAGAGAATTAGCTATGCCAAGACCAAGACGAG
AGCCGAGGTGCGGGCGGTGGCCGGAAGCCTTGGCCGCAGAAAGGCACTGGGCGGGCCCGGCATGGCAGC
ATCCGCTCTCCGCTCTGGCGAGGAGGAGGTGTTGCCCATGGCCCCGGGGCCCCACAAGTTACTACTACA
TGCTGCCCATGAAGGTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCCAGGACGACCT
GCACATCATGGACTCCCTAGAGCTGCCACCGGAGACCCACAGTACCTGACAGAGCTGGCGCACTACCGC
CGCTGGGGGACTCCGTACTCCTCGTGGACTTAACACACGAGGAGATGCCACAGAGCATCGTGGAGGCCA
CCTTAGGCTTAAGACCTCAACTTGATCCCGCTGTTGGTGAGCAAAGAGCCCAGGCCCTAGAGTGCG
CATGTGCAGGCTCCGCTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200861 representing NM_146388
 Red=Cloning site Green=Tags(s)

MLQFVRAGARAWLRPTGSQGLSSLAEAAARATENPEQVASEGLPEPVLRKVELPVPTHRRPVQAWVESLR
 GFEQERVGLADLHPDVFATAPRLDILHQVAMWQKNFKRISYAKTKTRAEVRGGGRKPWPQKGTGRARHGS
 IRSPLWRGGGVAHGPRGPTSYYYMLPMKVRALGLKVALTVKLAQDDLHIMDSLELPTGDPQYLTELAHYR
 RWGDSVLLVDLTHEEMPQSIVEATSRLKTFNLIPAVGEQRAQAPRVRMCLRLRC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_146388

ORF Size: 789 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_146388.2](#)

RefSeq Size: 2404 bp

RefSeq ORF: 792 bp

Locus ID: 51073

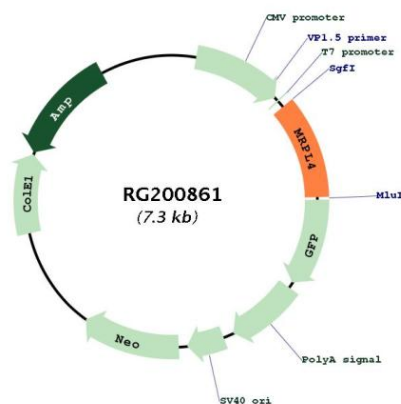
UniProt ID: [Q9BYD3](#)

Cytogenetics: 19p13.2

Domains: Ribosomal_L4

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. Sequence analysis identified alternatively spliced variants that encode different protein isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200861