

Product datasheet for **RC203029**

RPL4 (NM_000968) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | RPL4 (NM_000968) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | RPL4 |
| Synonyms: | L4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RC203029 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGTGTGCTCGCCACTGATATCGGTGTA**CTCCGAAAAGGGGAGT**CATCTGGCAAAAATGTCACTT
 TGCTGCTGTATTCAAGGCTCCTATT**CGACCAGATATTGTGA**ACTTTGTT**CACACCAACTT**GCGCAAAAA
 CAACAGACAGCCCTATGCTGTCAGTGAATTAGCAGGTCATCAGACTAGTCTGAGTCTTGGGGTACTGGC
 AGAGCTGTGGCTCGAATCCAGAGTTCGAGGTGGTGGGACTCACCGCTCTGGCCAGGGTCTTTTGAA
 ACATGTGTCGTGGAGGCCGAATGTTGCACCAACCAAAACCTGGCGCCGTTGGCATCGTAGAGTGAACAC
 AACCAAAAACGATACGCCATCTGTTCTGCCCTGGCTGCCTCAGCCCTACCAGCACTGGTCATGTCTAAA
 GGTTCATCGTATTGAGGAAGTTCCTGA**ACTTCTTTGGTAGTTGAAGATAAAGTTGAAGGCTACAAGA**
 CCAAGGAAGCTGTTTCTCCTTAAGAACTTAAAGCCTGGAATGATATCAAAAAGTCTATGCCTCTCA
 GCGAATGAGAGCTGGCAAAGGCAAAATGAGAAACCGTCGCGGATCCAGCGCAGGGGCCCGTGCATCATC
 TATAATGAGGATAATGGTATCATCAAGGCCTTCAGAAACATCCCTGGAATTA**CTCTGCTTAATGTAAGCA**
 AGCTGAACATTTTGAAGCTTGCTCCTGGTGGGCATGTGGGACGTTTCTGCATTTGGACTGAAAGTCTTT
 CCGGAAGTTAGATGAATTGTACGGCACTTGGCGTAAAGCCGCTTCCCTCAAGAGTAACTACAATCTTCCC
 ATGCACAAGATGATTAATACAGATCTTAGCAGAATCTTGA**AAAAGCCCAGAGATCCA**AAAGAGCCCTTCGAG
 CACCACGCAAGAAGATCCATCGCAGAGTCTAAAGAAAGCA**CCACTGAAAACTT**GAGAATCATGTTGAA
 GCTAAACCATATGCAAAGACATGCGCCGGAACCACTTCTTCCAGGCCAGGAATCACAAGCTCCGG
 GTGGATAAGGCAGCTGCTGCAGCAGCGGCACTACAAGCCAATCAGATGAGAAGGCGCGGTTGCAGGCA
 AGAAGCCTGTGGTAGGTAAAGAAAGAAAGAGGCTGCTGTTGGT**GTTAAGAAGCAGAAGAAGCCTCTGGT**
 GGGAAAAAAGGCAGCAGCTACCAAGAAACCGCCCTGAA**AGAAGCCTGCAGAGAAGA**AACTACTACA
 GAGGAGAAGAAGCCTGCTGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203029 protein sequence
 Red=Cloning site Green=Tags(s)

MACARPLISVYSEKGE**SSGKNVTLPAVFKAPIR**PDIVNFVHTNLRKNNRQPYAVSELAGHQ**TS**AESWGTG
 RAVARIPRV**RGGG**THRS**GG**AFGNMCRGGRMFAPTKTWRRW**HRRVNTTQ**KRYA**ICS**ALAA**SAL**PALVMSK
 GHR**IEE**VEPELPLV**VED**KVEGYK**TK**EA**VLLL**KKLKA**W**NDIKK**VYASQ**RM**RAG**KGKMRNRRRIQRRGPCII
 Y**NED**NGI**I**KA**FR**NIPGITLL**NV**SKLNILKLAPGGHVGRFC**I**WTESAFRKLDEL**Y**GTWRKAASLKS**NY**NLP
 M**H**KMINTDL**S**RILKS**PE**IQRAL**R**AP**R**KKI**HRR**V**L**KNPLK**N**LRI**M**LK**NP**YAK**T**MRRNTIL**RQ**ARN**H**KL**R**
 VDKAAAAAAL**Q**AK**S**DEKA**AV**AGK**P**V**V**GK**G**KKAA**V**G**V**KK**Q**K**P**L**V**GK**K**AA**A**T**K**PA**E**KK**P**AE**K**K**P**T
 EE**K**PAA

TRTRPLE**Q**KL**I**SEED**L**A**N**D**I**L**D**Y**K**DDDD**K**V

Chromatograms:

https://cdn.origene.com/chromatograms/mk6076_g10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_000968

ORF Size: 1281 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_000968.4](#)
RefSeq Size: 1458 bp

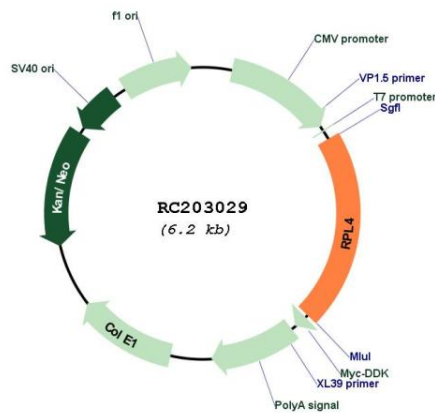
RefSeq ORF: 1284 bp

Locus ID: 6124

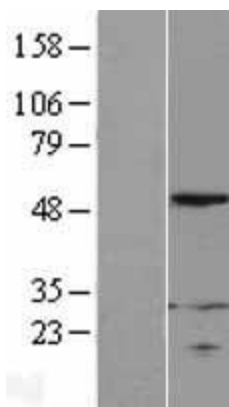
UniProt ID: [P36578](#)
Cytogenetics: 15q22.31

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|--------------------------|--|
| Domains: | Ribosomal_L4 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Ribosome |
| MW: | 47.7 kDa |
| Gene Summary: | Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 60S subunit. The protein belongs to the L4E family of ribosomal proteins. It is located in the cytoplasm. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq, Jul 2008] |

Product images:



Circular map for RC203029



Western blot validation of overexpression lysate (Cat# [LY400351]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203029 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).