

Product datasheet for RC212114

RPL12 (NM 000976) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: RPL12 (NM 000976) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: RPL12

Synonyms: L12

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC212114 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CCAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212114 protein sequence

Red=Cloning site Green=Tags(s)

MPPKFDPNEIKVVYLRCTGGEVGATSALAPKIGPLGLSPKKVGDDIAKATGDWKGLRITVKLTIQNRQAQ IEVVPSASALIIKALKEPPRDRKKOKNIKHSGNITFDEIVNIAROMRHRSLARELSGTIKEILGTAQSVG

CNVDGRHPHDIIDDINSGAVECPAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6453 f04.zip



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Restriction Sites:

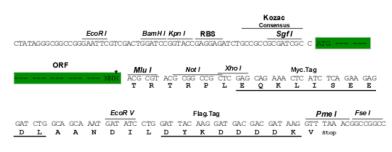
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:

Sgf1 ORF Miu I

--- GCGATCGC C ATG ---//--- NIN ACG CGT ---



^{*} The last codon before the Stop codon of the ORF

ACCN: NM_000976

ORF Size: 495 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: <u>NM 000976.4</u>

RefSeq Size: 674 bp
RefSeq ORF: 498 bp
Locus ID: 6136
UniProt ID: P30050



Cytogenetics: 9q33.3

Domains: Ribosomal_L11

Protein Pathways: Ribosome MW: 17.8 kDa

Gene Summary: Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and

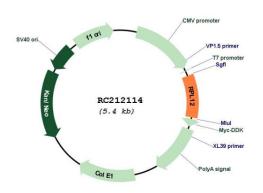
a large 60S subunit. Together these subunits are composed of 4 RNA species and

approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is

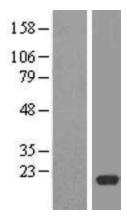
a component of the 60S subunit. The protein belongs to the L11P family of ribosomal proteins. It is located in the cytoplasm. The protein binds directly to the 26S rRNA. This gene is co-transcribed with the U65 snoRNA, which is located in its fourth intron. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene

dispersed through the genome. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC212114



Western blot validation of overexpression lysate (Cat# [LY424422]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212114 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified RPL12 protein (Cat# [TP312114]). The protein was produced from HEK293T cells transfected with RPL12 cDNA clone (Cat# RC212114) using MegaTran 2.0 (Cat# [TT210002]).