

Product datasheet for **RC200424**

RPL34 (NM_000995) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RPL34 (NM_000995) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RPL34
Synonyms: L34
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200424 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCCAGCGTTTGACATACCGACGTAGGCTTTCCTACAATACAGCCTCTAACAAAAGTGGCTGTCCC
GAACCCCTGGTAATAGAATTGTTACCTTTATACCAAGAAGGTTGGGAAAGCACCAAAATCTGCATGTGG
TGTGTGCCAGGCAGACTTCGAGGGTTCGTGCTGTAAGACCTAAAGTCTTATGAGATTGTCCAAAACA
AAGAAACATGTCAGCAGGCCTATGGTGGTCCATGTGTGCTAAATGTGTCGTGACAGGATCAAGCGTG
CTTTCCTATCGAGGAGCAGAAAATCGTTGTGAAAGTGTGAAGGCACAAGCACAGAGTCAGAAAAGCTAA
A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200424 protein sequence
Red=Cloning site Green=Tags(s)

MVQRLTYRRRLSYNTASNKTRLRTPGNRIVYLYTKKVGKAPKSACGVCPGRLRGVRAVRPKVLMRLSKT
KKHVSRAYGGSMCAKCVDRDIKRAFLIEEQKIVVKVLKAQAQSQKAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6388_f06.zip

Restriction Sites: Sgfl-Mlul



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Cloning Scheme:


ACCN: NM_000995

ORF Size: 351 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_000995.4](#)

RefSeq Size: 918 bp

RefSeq ORF: 354 bp

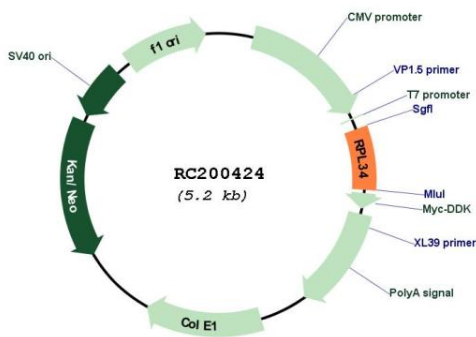
Locus ID: 6164

UniProt ID: [P49207](#)

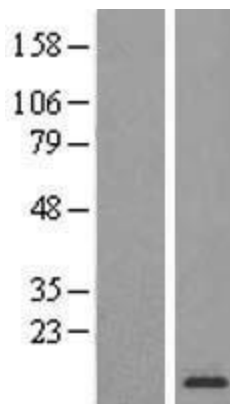
Cytogenetics: 4q25
Domains: Ribosomal_L34e
Protein Pathways: Ribosome
MW: 13.3 kDa

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 L34E family of ribosomal proteins. It is located in the cytoplasm. This gene originally was thought to be located at 17q21, but it has been mapped to 4q. Overexpression of this gene has been observed in some cancer cells. Alternative splicing results in multiple transcript variants, all encoding the same isoform. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RC200424



Western blot validation of overexpression lysate (Cat# [LY424407]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200424 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).