

Product datasheet for RC217987

RPL3 (NM_001033853) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPL3 (NM_001033853) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RPL3
Synonyms:	ASC-1; L3; TARBP-B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217987 representing NM_001033853 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCTCACAGAAAGTTCTCCGCTCCCAGACATGGGTCCCTCGGCTTCTGCCTCGGAAGCGCAGCAGCA
GGCATCGTGGGAAGGTGAAGAGCTTCCCTAAGGATGACCCGTCCAAGCCGGTCCACCTCACAGCCTTCT
GGGATACAAGGCTGGCATGACTCACATCGTGCGGGAAGTCGACAGGCCGGATCCAAGGTGAACAAGAAG
GAGGTGGTGGAGGCTGTGACCATTGTAGAGACACCACCCATGGTGGTGTGGGCATTGTGGGCTACGTGG
AAACCCCTCGAGGCTCCGGACCTCAAGACTGTCTTTGCTGAGCACATCAGTGATGAATGCAAGAGGCG
TTTCTATAAGAATTGGCATAAATCTAAGAAGAAGGCCACCTGATGGAGATCCAGGTGAACGGAGGCACT
GTGGCCGAGAAGCTGGACTGGGCCCGCAGAGGCTTGAGCAGCAGGTACCTGTGAACCAAGTGTTTGGGC
AGGATGAGATGATCGACGTCATCGGGGTGACCAAGGGCAAAGGCTACAAAGGGGTCAACAGTCGTTGGCA
CACCAAGAAGCTGCCCGCAAGACCCACCGAGGCTGCGCAAGGTGGCCTGTATTGGGGCATGGCATCCT
GCTCGTGTAGCCTTCTCTGTGGCACGCGCTGGGCAGAAAGGCTACCATCACCGCACTGAGATCAACAAGA
AGATTTATAAGATTGGCCAGGGCTACCTTATCAAGGACGGCAAGCTGATCAAGAACAATGCCTCCACTGA
CTATGACCTATCTGACAAGAGCATCAACCTCTGGGTGGCTTTGTCCACTATGGTGAAGTGACCAATGAC
TTTGTCTGCTGAAAGGCTGTGTGGTGGGAACCAAGAAGCGGGTGCTCACCTCCGCAAGTCCTTGGCTGG
TGCAGACGAAGCGCGGGCTCTGGAGAAGATTGACCTTAAGTTCAATTGACACCACCTCCAAGTTTGCCCA
TGGCCGCTTCCAGACCATGGAGGAGAAGAAAGCATTTCATGGGACCACTGAAGAAAGACCGAATTGCAAAAG
GAAGAAGGAGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC217987 representing NM_001033853
Red=Cloning site Green=Tags(s)

MSHRKFSAPRHGSLGFLPRKRSSRHGKVKVSPFKDDPSKPVHLTAFLGYKAGMTHIVREVDPRGSKVNKK
 EVVEAVTIVETPPMVVVGIVGYVETPRGLRTFKTVFAEHSDECKRRFYKNWHKSKKKAHLMEIQVNGGT
 VAEKLDWARERLEQQVPVNVQVFGQDEMIDVIGVTKGKGYKGVTSRWHTKKLPRKTHRGLRKYVACIGAWHP
 ARVAFSVARAGQKGYHHRTEINKKIYKIGQGYLIKDGKLIKNNASTDYDLSDK SINPLGGFVHYGEVTND
 FVMLKGCVVGTKKRVLTLRKSLLVQTKRRALEKIDLKFIDTTSKFGHGRFQTMEEKAKAFMGPLKKDRIAK
 EEGA

TRTRPLEQKLISEEDLAANDILDYKDDDDKVV

Chromatograms: https://cdn.origene.com/chromatograms/mk8054_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001033853

ORF Size: 1062 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_001033853.2](#)

RefSeq Size: 1201 bp

RefSeq ORF: 1065 bp

Locus ID: 6122

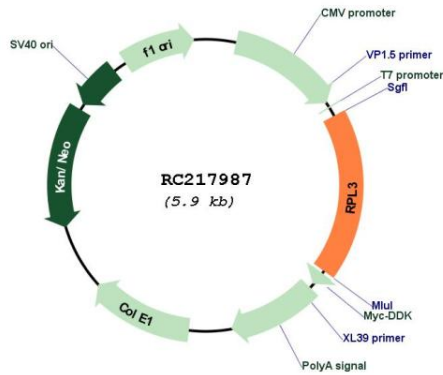
Cytogenetics: 22q13.1

Protein Pathways: Ribosome

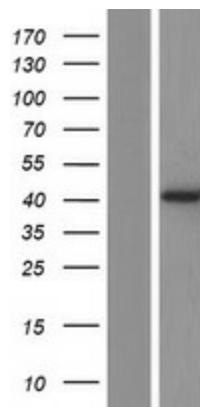
MW: 40 kDa

Gene Summary: Ribosomes, the complexes 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 L3P family of ribosomal proteins and it is located in the cytoplasm. The protein can bind to the HIV-1 TAR mRNA, and it has been suggested that the protein contributes to tat-mediated transactivation. This gene is co-transcribed with several small nucleolar RNA genes, which are located in several of this gene's introns. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. 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 RC217987



Western blot validation of overexpression lysate (Cat# [LY422420]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217987 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).