

Product datasheet for **RC210650**

RPL23 (NM_000978) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPL23 (NM_000978) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RPL23
Synonyms:	L23; rpL17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210650 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGAAGCGAGGACGTGGTGGGTCTCTGGTGCGAAATTCGGATTCCTTGGGTCTCCGGTAGGAG
CTGTAATCAATTGTGCTGACAACACAGGAGCCAAAAACCTGTATATCATCTCCGTGAAGGGGATCAAGGG
ACGGCTGAACAGACTTCCCGCTGCTGGTGTGGGTGACATGGTGATGGCCACAGTCAAGAAAGGCAAACCA
GAGCTCAGAAAAAAGGTACATCCAGCAGTGGTCATTGACAACGAAAGTCATACCGTAGAAAAGATGGCG
TGTTTCTTTATTTGAAGATAATGCAGGAGTCATAGTGAACAATAAAGGCGAGATGAAAGGTTCTGCCAT
TACAGGACCAGTAGCAAAGGAGTGTGCAGACTTGTGGCCCGGATTGCATCCAATGCTGGCAGCATTGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC210650 protein sequence Red=Cloning site Green=Tags(s)
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MSKRGRGGSSGAKFRISLGLPVGAVINCADNTGAKNLYIISVKGIKGRNLRLPAAGVGDMMATVKKGKP
ELRKKVHPAVVIRQRKSYRRKDGVFLYFEDNAGVIVNNKGEMKGSAITGPVAKCADLWPRIASNAGSIA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/mk6555_f06.zip
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Restriction Sites:	SgfI-MluI
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Cloning Scheme:


ACCN: NM_000978

ORF Size: 420 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_000978.4](#)

RefSeq Size: 594 bp

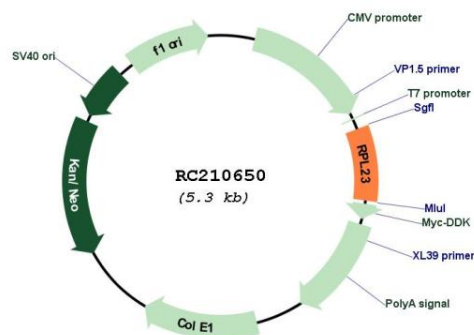
RefSeq ORF: 423 bp

Locus ID: 9349
 UniProt ID: [P62829](#)
 Cytogenetics: 17q12

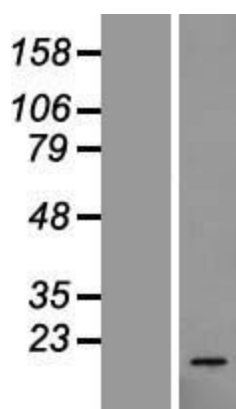
Domains: Ribosomal_L14
 Protein Pathways: Ribosome
 MW: 14.9 kDa

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 L14P family of ribosomal proteins. It is located in the cytoplasm. This gene has been referred to as rpl17 because the encoded protein shares amino acid identity with ribosomal protein L17 from *Saccharomyces cerevisiae*; however, its official symbol is RPL23. 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 RC210650



Western blot validation of overexpression lysate (Cat# [LY424424]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210650 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).