

## Product datasheet for RC217512

### RPS21 (NM\_001024) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RPS21 (NM\_001024) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** RPS21  
**Synonyms:** HLDF; S21  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC217512 representing NM\_001024  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGAACGACGCCGGCGAGTTCGTGGACCTGTACGTGCCGCGGAAATGCTCCGCTAGCAATCGCATCA  
TCGGTGCCAAGGACCACGCATCCATCCAGATGAACGTGGCCGAGGTTGACAAGGTCACAGGCAGGTTTAA  
TGGCCAGTTTAAACTTATGCTATCTGCGGGGCCATTCGTAGGATGGGTGAGTCAGATGATTCCATTCTC  
CGATTGGCCAAGGCCGATGGCATCGTCTCAAAGAACTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC217512 representing NM\_001024  
Red=Cloning site Green=Tags(s)  
MQNDAGEFVDLYVPRKCSASNRIIGAKDHASIQMNVAEVDKVTGRFNGQFKTYAICGAIRRMGESDDSSIL  
RLAKADGIVSKNF

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg4103\\_f01.zip](https://cdn.origene.com/chromatograms/mg4103_f01.zip)

**Restriction Sites:** Sgfl-Mlul



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**Cloning Scheme:**


**ACCN:** NM\_001024

**ORF Size:** 249 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\\_001024.4](#)

**RefSeq Size:** 418 bp

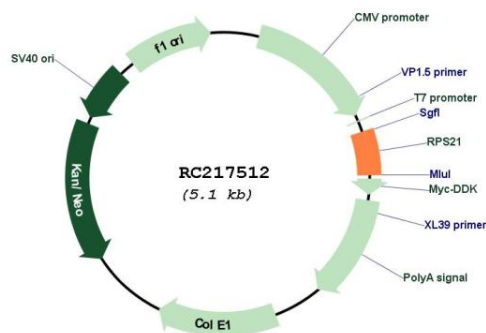
**RefSeq ORF:** 252 bp

**Locus ID:** 6227

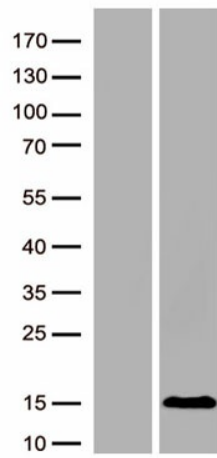
**UniProt ID:** [P63220](#)  
**Cytogenetics:** 20q13.33  
**Domains:** Ribosomal\_S21e  
**Protein Pathways:** Ribosome  
**MW:** 8.9 kDa

**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 40S subunit. The protein belongs to the S21E family of ribosomal proteins. It is located in the cytoplasm. Alternative splice variants that encode different protein isoforms have been described, but their existence has not been verified. 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 RC217512



Western blot validation of overexpression lysate using anti-DDK antibody (Cat# [TA180144]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217512 using transfection reagent PEI.