

## Product datasheet for **RC204595**

### RPS5 (NM\_001009) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RPS5 (NM\_001009) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** RPS5  
**Synonyms:** S5  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC204595 representing NM\_001009  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACCGAGTGGGAGACAGCAGCACCAGCGGTGGCAGAGACCCAGACATCAAGCTCTTTGGGAAGTGGA  
 GCACCGATGATGTGCAGATCAATGACATTTCCCTGCAGGATTACATTGCAGTGAAGGAGAAGTATGCCAA  
 GTACCTGCCTCACAGTGCAGGGCGGTATGCCGCCAACCGCTTCGCAAAGCTCAGTGTCCATTGTGGAG  
 CGCCTCACTAACTCCATGATGATGCACGGCCGCAACAACGGCAAGAAGCTCATGACTGTGCGCATCGTCA  
 AGCATGCCTTCGAGATCATAACCTGCTCACAGGCGAGAACCCTCTGCAGTCTGGTGAACGCCATCAT  
 CAACAGTGGTCCCGGGAGGACTCCACACGCATTGGGCGCGCCGGACTGTGAGACGACAGGCTGTGGAT  
 GTGTCCCCCTGCGCCGTGTGAACCAGGCCATCTGGCTGCTGTGCACAGGCGCTCGTGAGGCTGCCTTCC  
 GGAACATTAAGACCATTGCTGAGTGCCTGGCAGATGAGCTCATCAATGCTGCCAAGGGCTCCTCGAACTC  
 CTATGCCATTAAGAAGAAGGACGAGCTGGAGCGTGTGGCCAAGTCCAACCCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC204595 representing NM\_001009  
 Red=Cloning site Green=Tags(s)

MTEWETAAPAVAETPDIKLFGKSTDDVQINDISLQDYIAVKEKYAKYLPHSAGRYAAKFRFRKAQCPIVE  
 RL TNSMMMHRNNGKLM TVRIVKHAF EIIHLL TGENPLQVL VNAI INSGPREDSTRIGRAGTVRRQAVD  
 VSPLRRVNQAIWLLCTGAREAAFRNIKTIAECLADELINAAGSSNSYAIKKKDELERVAKSNR

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**



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**Chromatograms:** [https://cdn.origene.com/chromatograms/mg3943\\_h05.zip](https://cdn.origene.com/chromatograms/mg3943_h05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001009

**ORF Size:** 612 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\\_001009.4](#)

**RefSeq Size:** 755 bp

**RefSeq ORF:** 615 bp

**Locus ID:** 6193

UniProt ID: [P46782](#)

Cytogenetics: 19q13.43

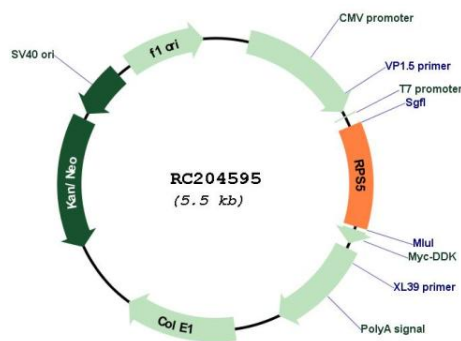
Domains: Ribosomal\_S7

Protein Pathways: Ribosome

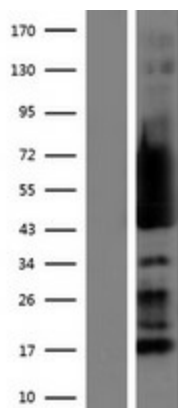
MW: 22.7 kDa

**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 S7P family of ribosomal proteins. It is located in the cytoplasm. Variable expression of this gene in colorectal cancers compared to adjacent normal tissues has been observed, although no correlation between the level of expression and the severity of the disease has been found. 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]

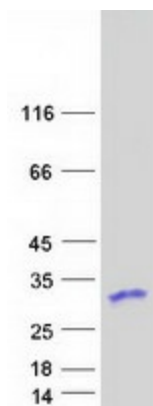
### Product images:



Circular map for RC204595



Western blot validation of overexpression lysate (Cat# [LY422902]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204595 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RPS5 protein (Cat# [TP304595]). The protein was produced from HEK293T cells transfected with RPS5 cDNA clone (Cat# RC204595) using MegaTran 2.0 (Cat# [TT210002]).