

Product datasheet for **RG203475**

RPS16 (NM_001020) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RPS16 (NM_001020) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RPS16
Synonyms: S16
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203475 representing NM_001020
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGTCCAAGGGCCCGCTGCAGTCTGTGCAGGTCTTCGGACGCAAGAAGACAGCGACAGCTGTGGCGC
ACTGCAAACGCGGCAATGGTCTCATCAAGGTGAACGGCGGCCCTGGAGATGATTGAGCCGCGCACGCT
ACAGTACAAGCTGCTGGAGCCAGTTCTGCTTTCGGCAAGGAGCGATTTGCTGGTGTAGACATCCGTGTC
CGTGTAAGGGTGGTGGTCACGTGGCCAGATTTATGCTATCCGTCAGTCCATCTCAAAGCCCTGGTGG
CCTATTACCAGAAATATGTGGATGAGGCTTCCAAGAAGGAGATCAAAGACATCCTCATCCAGTATGACCG
GACCCTGCTGGTAGCTGACCCTCGCTGCGAGTCCAAAAGTTTGGAGGTCTGGTGCCCGCGCTCGC
TACCAGAAATCCTACCGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203475 representing NM_001020
 Red=Cloning site Green=Tags(s)

MPSKGPLQSVQVFRKKTATAVAHCKRGNLIKVNGRPLEMIEPRTLQYKLLLEPVLLLGKERFAGVDIRV
RYKGGGHVAQIYAIRQSISKALVAYYQKYVDEASKKEIKDILIQYDRLLVADPRRCESKFGGPGARAR
YQKSYR

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:



ACCN: NM_001020

ORF Size: 438 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001020.4](#), [NP_001011.1](#)

RefSeq Size: 603 bp

RefSeq ORF: 441 bp

Locus ID: 6217

UniProt ID: [P62249](#)

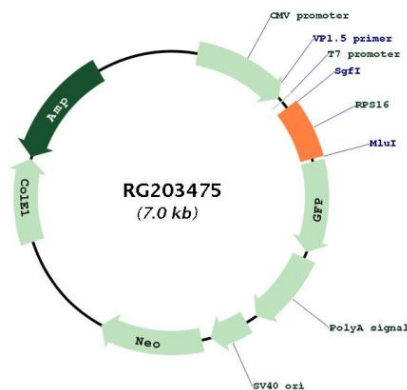
Cytogenetics: 19q13.2

Domains: Ribosomal_S9

Protein Pathways: Ribosome

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 S9P family of ribosomal proteins. It is located in the cytoplasm. 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 RG203475