

## Product datasheet for **RG201631**

### RPL15 (NM\_002948) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RPL15 (NM\_002948) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RPL15  
**Synonyms:** DBA12; EC45; L15; RPL10; RPLY10; RPYL10  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG201631 representing NM\_002948  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGTGCATACAAGTACATCCAGGAGCTATGGAGAAAGAAGCAGTCTGATGTCATGCGCTTTCTTCTGA  
GGGTCCGCTGCTGGCAGTACCGCCAGCTCTCTGCTCTCCACAGGGCTCCCCGCCCCACCCGGCCTGATAA  
AGCGCGCCGACTGGGCTACAAGGCCAAGCAAGGTTACGTTATATATAGGATTCGTGTTCCCGTGGTGGC  
CGAAAACGCCAGTTCCTAAGGGTGCAACTACGGCAAGCCTGTCCATCATGGTGTAAACCAGCTAAAGT  
TTGCTCGAAGCCTTCAGTCCGTTGCAGAGGAGCGAGCTGGACGCCACTGTGGGGCTCTGAGAGTCCTGAA  
TTCTTACTGGGTTGGTGAAGATTCCACATACAAATTTTTTGGAGTTATCCTCATTGATCCATTCCATAAA  
GCTATCAGAAGAAATCCTGACACCCAGTGGATCACCAAACAGTCCACAAGCACAGGGAGATGCGTGGGC  
TGACATCTGCAGGCCGAAAGAGCCGTGGCCTTGAAAAGGGCCACAAGTCCCACCACACTATTGGTGGCTC  
TCGCCGGGCGAGCTTGAGAAAGGCCAATACTCTCCAGTCCACCGTTACCGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG201631 representing NM\_002948  
Red=Cloning site Green=Tags(s)

MGAYKYIQELWRKKQSDVMRFLLRVRCWQYRQLSALHRAPRPRTRPKARRLGYKAKQGYVIYRIRVRRGG  
RKRVPVKGATYGKPVHHGVNQLKFARSLQSVAEERAGRHCALRVLNSYWVGEDSTYKFFEVIILIDPFHK  
AIRRNPDQWITKPVHKHREMRGLTSAGRKSRGLGKHKSHHTIGGSRAAWRRRNTLQLHRYR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**


**ACCN:** NM\_002948

**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\\_002948.2](#), [NP\\_002939.2](#)

**RefSeq Size:** 2018 bp

**RefSeq ORF:** 615 bp

**Locus ID:** 6138

**UniProt ID:** [P61313](#)

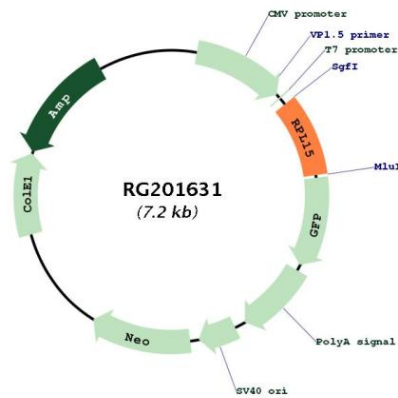
**Cytogenetics:** 3p24.2

**Domains:** Ribosomal\_L15e

**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 four RNA species and approximately 80 structurally distinct proteins. This gene encodes a member of the L15E family of ribosomal proteins and a component of the 60S subunit. This gene shares sequence similarity with the yeast ribosomal protein YL10 gene. Elevated expression of this gene has been observed in esophageal tumors and gastric cancer tissues, and deletion of this gene has been observed in a Diamond-Blackfan anemia (DBA) patient. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq, Mar 2017]

**Product images:**



Circular map for RG201631