

## Product datasheet for **RG210075**

### RPS8 (NM\_001012) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RPS8 (NM\_001012) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RPS8  
**Synonyms:** S8  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG210075 representing NM\_001012  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCATCTCTCGGGACAACACTGGCACAAGCGCCGCAAAACCGGGGGCAAGAGAAAGCCCTACCACAAGA  
AGCGGAAGTATGAGTTGGGGCGCCAGCTGCCAACACCAAGATTGGCCCCGCGCATCCACACAGTCCG  
TGTGCGGGGAGGTAACAAGAAATACCGTGCCCTGAGGTTGGACGTGGGAATTTCTCTGGGGCTCAGAG  
TGTTGTACTCGTAAAACAAGGATCATCGATGTTGTCTACAATGCATCTAATAACGAGCTGGTTCGTACCA  
AGACCCTGGTGAAGAATTGCATCGTCTCATCGACAGCACACCGTACCGACAGTGTACGAGTCCCCTACTA  
TGCCTGCCCCCTGGGCCCAAGAAGGGAGCCAAGCTGACTCCTGAGGAAGAAGAGATTTAAACAAAAA  
CGATCTAAAAAATTCAGAAGAAATATGATGAAAGGAAAAAGAATGCCAAAATCAGCAGTCTCCTGGAGG  
AGCAGTTCAGCAGGGCAAGCTTCTTGCCTGCATCGCTTCAAGGCCGGGACAGTGTGGCCGAGCAGATGG  
CTATGTGCTAGAGGGCAAGAGTTGGAGTTCTATCTTAGGAAAATCAAGGCCCGCAAGGCCAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG210075 representing NM\_001012  
Red=Cloning site Green=Tags(s)

MGISRDNWHKRRKTGGKRKPYHKKRKYELGRPAANTKIGPRRIHTVVRVGGNKKYRALRLDVGNFVSWGSE  
CCTRKTRIIDVVYNASNELVRKTLVKNCIVLIDSTPYRQWYESHYALPLGRKKGAKLTPEEEEILNKK  
RSKKIQKKYDERKKNAKISSLLEEQFQQGKLLACIASRPGQCGRADGYVLEGGKELEFYLRKIKARKGK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI

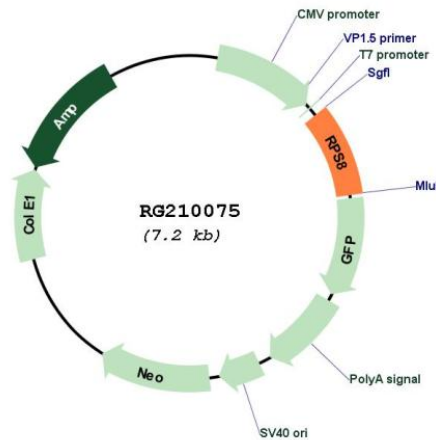


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001012

ORF Size: 624 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\\_001012.2](#)

**RefSeq Size:** 705 bp

**RefSeq ORF:** 627 bp

**Locus ID:** 6202

**UniProt ID:** [P62241](#)

**Cytogenetics:** 1p34.1

**Domains:** Ribosomal\_S8e

**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 S8E family of ribosomal proteins. It is located in the cytoplasm. Increased expression of this gene in colorectal tumors and colon polyps compared to matched normal colonic mucosa has been observed. This gene is co-transcribed with the small nucleolar RNA genes U38A, U38B, U39, and U40, which are located in its fourth, fifth, first, and second introns, respectively. 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]