

## Product datasheet for **RG207007**

### **C7orf16 (PPP1R17) (NM\_006658) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** C7orf16 (PPP1R17) (NM\_006658) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** C7orf16  
**Synonyms:** C7orf16; GSBS  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG207007 representing NM\_006658  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGTCCACTGAGCAAATGCAGCCACTGGAAGTCTCAGAAGACAGACTGGACAAGCTAGACCCTCGTT  
GCAGCCACTTAGATGATCTTTAGACCAGTTTCATTAAGGACTGTGATCTCAAAAAGAAGCCTAGAAAAGG  
AAAAATGTACAGGCCACCCTGAATGTTGAGTCAGACCAAAAAAACAAGGAGGAAAGATACACCGCG  
CTGCACATCCCACCTTTCATACCAGGTGTGTTTTCAGAACATTTAATTAAGATACGATGTTCAAGAGA  
GACATCCAAAGGGCAAAATGATCCCTGTTCTTCAACTGACCTGGAACAGAAAAAGCCAAGGAGAAA  
AGACACACCTGCCCTGCACATGTCCCCCTTGCAGCAGGTGTGACATTGCTCAGGGATGAGAGACCCAAA  
GCAATCGTGGAAGATGACGAAAAGGATGGTGACAAGATAGCTATT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG207007 representing NM\_006658  
Red=Cloning site Green=Tags(s)

MMSTEQMQPLEVSEDRDLKLDPRCSHLDDLSDQFIKDCDLKKKPRKGKNVQATLNVEDSQKPRRKDTPA  
LHIPPFIIPGVFSEHLIKRYDVQERHPKGMIPVLHNTDLEQKPRRKDTPALHMSFPAAGVTLRLRDERPK  
AIVEDDEKDGDKIAI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_006658

**ORF Size:** 465 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\\_006658.2](#), [NP\\_006649.1](#)

**RefSeq Size:** 1824 bp

**RefSeq ORF:** 468 bp

**Locus ID:** 10842

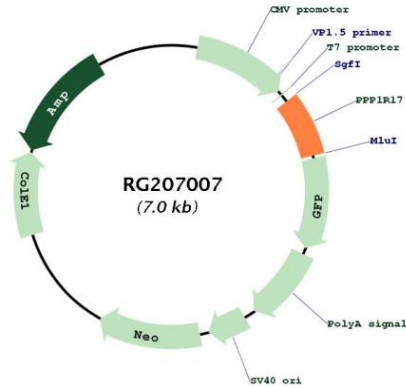
**UniProt ID:** [O96001](#)

**Cytogenetics:** 7p14.3

**Protein Pathways:** Long-term depression

**Gene Summary:** The protein encoded by this gene is found primarily in cerebellar Purkinje cells, where it functions as a protein phosphatase inhibitor. The encoded protein is a substrate for cGMP-dependent protein kinase. An allele of this gene was discovered that increases susceptibility to hypercholesterolemia. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2010]

**Product images:**



Circular map for RG207007