

## Product datasheet for **RG205263**

### Protein phosphatase inhibitor 1 (PPP1R1A) (NM\_006741) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Protein phosphatase inhibitor 1 (PPP1R1A) (NM\_006741) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Protein phosphatase inhibitor 1  
**Synonyms:** I1; IPP1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG205263 representing NM\_006741  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGCAAGACAACAGCCCCAAAAGATCCAGTTCACGGTCCCCTGCTGGAGCCGCACCTTGACCCCG  
 AGGCGGCGGAGCAGATTCGGAGGCGCCGCCACCCTGCCACCCTCGTCTGACCAGTGACCAGTCATC  
 CCCAGAGATAGATGAAGACCGGATCCCCAACCCACATCTCAAGTCCACTTTGGCAATGTCTCCACGGCAA  
 CGGAAGAAGATGACAAGGATCACACCCACAATGAAAGAGCTCCAGATGATGGTTGAACATCACCTGGGGC  
 AACAGCAGCAAGGAGAGAACCTGAGGGGGCCGCTGAGAGCACAGGAACCCAGGAGTCCCGCCACCTGG  
 GATCCCAGACACAGAAGTGGAGTCAAGGCTGGGCACCTCTGGGACAGCAAAAAAAGTGCAGAATGCATC  
 CCTAAAACCTCACGAAAGAGGCGAGTAAGGAACCCAGCACAAAAGAACCTCAACCCATATACCACCACTGG  
 ATTCCAAGGGAGCCAACCTCGGTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG205263 representing NM\_006741  
 Red=Cloning site Green=Tags(s)

MEQDNSPQKIQFTVPLLEPHLDPEAAEQIRRRRPTATLVLTSDQSSPEIDEDRIPNPHLKSTLAMSPRQ  
 RKKMTRITPTMKELQMMVEHHLGQQQQGEEPEGAAESTGTQESRPPGIPDTEVESRLGTSGTAKKTAECI  
 PKTHERGSKEPSTKEPSTHIPPPLDSKGANSV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_006741

**ORF Size:** 513 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\\_006741.2](#), [NP\\_006732.2](#)

**RefSeq Size:** 1839 bp

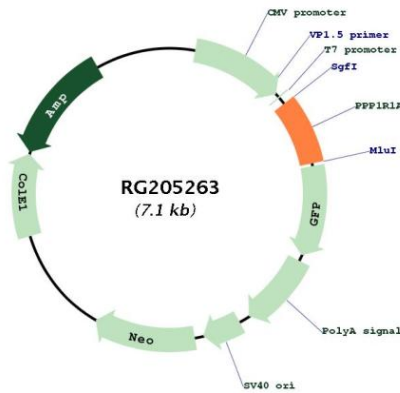
**RefSeq ORF:** 516 bp

**Locus ID:** 5502

**UniProt ID:** [Q13522](#)

**Cytogenetics:** 12q13.2  
**Protein Families:** Druggable Genome  
**Protein Pathways:** Long-term potentiation  
**Gene Summary:** Inhibitor of protein-phosphatase 1. This protein may be important in hormonal control of glycogen metabolism. Hormones that elevate intracellular cAMP increase I-1 activity in many tissues. I-1 activation may impose cAMP control over proteins that are not directly phosphorylated by PKA. Following a rise in intracellular calcium, I-1 is inactivated by calcineurin (or PP2B). Does not inhibit type-2 phosphatases.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG205263