

## Product datasheet for **RG203153**

### PPP1R3C (NM\_005398) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP1R3C (NM_005398) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP1R3C
Synonyms:	PPP1R5; PTG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203153 representing NM_005398 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCTGCACCAGAATGATCCAGGTTTTAGATCCACGTCCTTTGACAAGTTCGGTCATGCCCGTGGATG  
TGGCCATGAGGCTTTGCTTGGCACATTCACCACCTGTGAAGAGTTTCTGGGCCCGTACGATGAATTTCA  
ACGACGACATTTGTGAATAAATTAAGCCCTGAAATCATGTCTCAATATAAACACAAAGCCAAATCA  
CAGAATGACTGGAAGTGCTCACACAACCAAGCCAAGAAGCGCTTGTGTTTCTGACTCCAAGGGCCTCT  
CTCTCACTGCGATCCATGTCTTCTCCGACCTCCCAGAAGAACCAGCGTGGGATCTGCAGTTTGATCTCTT  
GGACCTTAATGATATCTCTCTGCCTTAAACACCACGAGGAGAAAACTTGATTTTAGATTTCCCTCAG  
CCTTCAACCGATTACTTAAGTTTCCGGAGCCACTTTCAGAAGAAGCTTTGTCTGTCTGGAGAAGTGCAT  
TGCAAGAGCGAACAGTGACAGGGACTGTTAAAGTCAAAAATGTGAGTTTTGAGAAGAAAGTTCAGATCCG  
TATCACTTTTCGATTTTGGAAAACTACACTGACGTAGACTGTGTCTATATGAAAAATGTGTATGGTGGC  
ACAGATAGTGATACTTCTCATTGGCATTGACTTACCCCTGTCACTCCAAGTGCAGAAAAATGAGT  
TCTGCATTTCTTACCATGCTAATGGGCAAGTCTTTGGGACAACAATGATGGTCAGAATTATAGAATTGT  
TCATGTTCAATGGAAGCCTGATGGGGTGCAGACACAGATGGCACCCAGGACTGTGCATTCCACCAGACG  
TCTCCTAAGACAGAGTTAGAGTCAACAATCTTTGGCAGTCCGAGGCTGGCTAGTGGGCTCTCCAGAGT  
GGCAGAGCTGGGGAGAATGGAGAACTTGGCCCTTATCGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG203153 representing NM\_005398  
 Red=Cloning site Green=Tags(s)

MSCTRMIQVLDPRLTSSVMPVDVAMRLCLAHSPVKSFLGPYDEFQRRHFVNKLKPLKSLNKHKAKS  
 QNDWKCShnQAKKRvVfADSKGLSLTAIHVfSDLPEEPAWDLQFDLLDLNDISSALKHHEEKNLILDFPQ  
 PSTDYLsFRSHfQKNfVCLenCSLQERTVTGTvKVKNVsfEKKVQIRITfDSWKNYTDVDCVYMKNVYGG  
 TDSDTFsFAIDLPPVIPTeQKIEfCISYHANGQVfWdNNDGQNYRIVHVQWkPDGVQTMAPQDCAfHQ  
 SPKTELESTIFGSPRLASGLfPEWQSwGRMENLASyR

TRTRPLE - GFP Tag - V

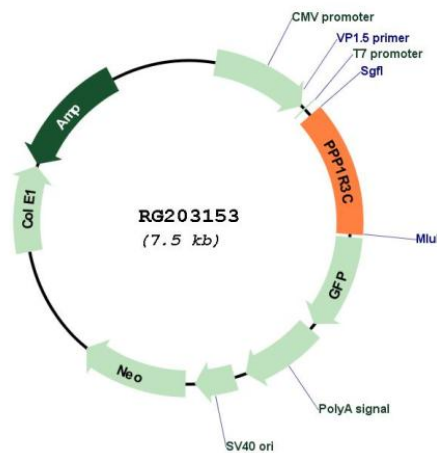
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_005398

ORF Size: 951 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005398.2</a>
<b>RefSeq Size:</b>	2647 bp
<b>RefSeq ORF:</b>	954 bp
<b>Locus ID:</b>	5507
<b>UniProt ID:</b>	<a href="#">Q9UQK1</a>
<b>Cytogenetics:</b>	10q23.32
<b>Domains:</b>	CBM_21
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Insulin signaling pathway
<b>Gene Summary:</b>	This gene encodes a carbohydrate binding protein that is a subunit of the protein phosphatase 1 (PP1) complex. PP1 catalyzes reversible protein phosphorylation, which is important in a wide range of cellular activities. The encoded protein affects glycogen biosynthesis by activating glycogen synthase and limiting glycogen breakdown by reducing glycogen phosphorylase activity. DNA hypermethylation of this gene has been found in colorectal cancer patients. The encoded protein also interacts with the laforin protein, which is a protein tyrosine phosphatase implicated in Lafora disease. [provided by RefSeq, Sep 2016]