

## Product datasheet for **RG214086**

### PPP2R2C (NM\_181876) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R2C (NM_181876) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP2R2C
Synonyms:	B55-GAMMA; B55gamma; IMYPNO; IMYPNO1; PR52; PR55G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214086 representing NM\_181876  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGGCTGTCTTTTTCTCAAACACTTGCCCATCCAGGAAGGCCAGCCCTGGGCATTGAAGACTCCAG  
 CTGACATCATCTTACCCTTGTAGTTCAACCACACGGGAGAGCTGCTGGCCACAGGTGACAAGGGCGGCCG  
 GGTCTGTCATCTTCCAGCGGGAACAGAGAGTAAAAATGCGCCACAGCCAGGGCGAATACGACGTGTAC  
 AGCACTTCCAGAGCCACGAGCCGAGTTTACTATCTCAAGAGCCTGGAGATAGAGGAGAAGATCAACA  
 AGATCAAGTGGCTCCACAGCAGAACGCCGCCACTACTCTGTCCACCAACGATAAACTATCAAATT  
 ATGGAAGATTACCGAACGAGATAAAGGCCCGAAGGATACAACCTGAAGGATGAAGAGGGGAACTAAG  
 GACCTGTCCAGGTGACGTCCTGCAGGTGCCAGTGTGAAGCCATGGATCTGATGGTGGAGGTGAGCC  
 CTCGGAGGATCTTGCCAATGGCCACACCTACCACATCAACTCCATCTCCGTCAACAGTGACTGCGAGAC  
 CTACATGTGGCGGATGACCTGCGCATCAACCTCTGGCACCTGGCCATCACCGACAGGAGCTTCAACATC  
 GTGGACATCAAGCCGGCCAAACATGGAGGACCTTACGGAGGTGATCACAGCATCTGAGTTCATCCGCACC  
 ACTGCAACCTCTTCGTCTACAGCAGCAGCAAGGGCTCCCTGCGGCTCTGCGACATGCGGGCAGCTGCCCT  
 GTGTGACAAGCATTCCAAGCTCTTTGAAGAGCCTGAGGACCCAGTAACCGCTCATTCTTCTCGAAATC  
 ATCTCCTCCGTGTCCGACGTGAAGTTCAGCCACAGCGCCGCTACATGCTCACCCGGGACTACCTTACAG  
 TCAAGGTCTGGGACCTGAACATGGAGGCAAGACCCATAGAGACCTACCAGGTCCATGACTACCTTCGGAG  
 CAAGCTCTGTTCCCTGTACGAGAAGCAGTGCATTTTCGACAAGTTTGAATGTGCCTGGAACGGGAGCGAC  
 AGCGTCATCATGACCGGGCCTACAACAACCTTCTCCGCATGTTGATCGGAACACCAAGCGGGACGTGA  
 CCCTGGAGGCTCGAGGAAAGCAGCAAGCCCGGGCTGTGCTCAAGCCACGGCGCGTGTGCGTGGGGGG  
 CAAGCGCCGGCGTATGACATCAGTGTGGACAGCTTGGACTTACCAAGAAGATCCTGCACACGGCCTGG  
 CACCCGGCTGAGAACATCATTGCCATCGCCGCCACCAACACCTGTACATCTTCCAGGACAAGGTAACCT  
 CTGACATGCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG214086 representing NM\_181876  
 Red=Cloning site Green=Tags(s)

MGLSFFSKHLPIEQGPWALKTPADIISTVEFNHTGELLATGDKGGRVIFQREPESKNAPHSQGEYDVY  
 STFQSHEPEFDYLSLEIEEKINKIKWLPQNAHSLSTNDKTIKLWKITERDKRPEGYNLKDEEGKLLK  
 DLSTVTSLQVPVLKPMMLMVEVSPRRIFANGHTYHINSISVNSDCETYMSADDLRINLWHLAITDRSFNI  
 VDIKPANMEDL TEVITASEFPHHCNLFVYSSSKGSLRLCDMRAAALCDKHSKLFEEPEDPSNRSFFSEI  
 ISSVSDVKF SHSGRYMLTRDYLTVKVWDLNMEARPIETYQVHDYLRSLKCSLYENDCIFDKFECAWNGSD  
 SVIMTGAYNNFFRMRDNTKRDVTLASRESSKPRAVLKPRRVCVGGKRRRDDISVDSLDFTKKILHTAW  
 HPAENIIAIAATNNLYIFQDKVNSDMH

**TRTRPLE** - GFP Tag - V

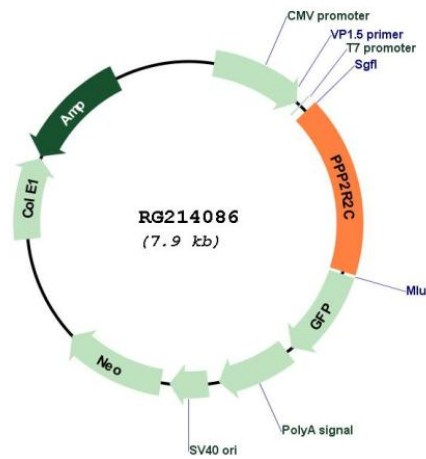
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_181876

ORF Size: 1341 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.

<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_181876.3</a>
<b>RefSeq Size:</b>	4087 bp
<b>RefSeq ORF:</b>	1344 bp
<b>Locus ID:</b>	5522
<b>UniProt ID:</b>	<a href="#">Q9Y2T4</a>
<b>Cytogenetics:</b>	4p16.1
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>Protein Pathways:</b>	Tight junction
<b>Gene Summary:</b>	The product of this gene belongs to the phosphatase 2 regulatory subunit B family. Protein phosphatase 2 is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The B regulatory subunit might modulate substrate selectivity and catalytic activity. This gene encodes a gamma isoform of the regulatory subunit B55 subfamily. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]