

## Product datasheet for **RG201650**

### PP5 (PPP5C) (NM\_006247) Human Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                            |
| Product Name:             | PP5 (PPP5C) (NM_006247) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                       |
| Symbol:                   | PP5  |
| Synonyms:                 | PP5; PPP5; PPT                                 |
| Mammalian Cell Selection: | Neomycin                                       |
| Vector:                   | pCMV6-AC-GFP (PS100010)                        |
| E. coli Selection:        | Ampicillin (100 ug/mL)                         |



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**ORF Nucleotide Sequence:**

>RG201650 representing NM\_006247  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGATGGCGGAGGGCGAGAGGACTGAGTGTGCTGAGCCCCCGGGACGAACCCCGGCTGATGGAG  
 CTCTGAAGCGGGCAGAGGAGCTCAAGACTCAGGCCAATGACTACTTCAAAGCCAAGGACTACGAGAACGC  
 CATCAAGTTCTACAGCCAGGCCATCGAGCTGAACCCAGCAATGCCATCTACTATGGCAACCGCAGCCTG  
 GCCTACCTGCGCACTGAGTGCTATGGTACGCGCTGGGAGACGCCACGCGGGCCATTGAGCTGGACAAGA  
 AGTACATCAAGGGTTATTACCGCCGGGCTGCCAGCAACATGGCACTGGGCAAGTTCGGGGCCGCGTGGC  
 AGACTACGAGACGGTGGTCAAGGTGAAGCCCCATGACAAGGATGCCAAAATGAAATACCAGGAGTGAAC  
 AAGATCGTGAAGCAGAAGGCCTTTGAGCGGGCCATCGCGGGCAGCAGCACAAGCGCTCCGTGGTGGACT  
 CGCTGGACATCGAGAGCATGACCATTGAGGATGAGTACAGCGACCCAAGCTTGAAGACGGCAAAGTGAC  
 AATCAGTTTCATGAAGGAGCTCATGCAAGTGTACAAGGACCAGAAGAACTGCACCGGAAATGTGCCTAC  
 CAGATTCTGGTACAGGTCAAAGAGGTCCTCCTCAAGCTGAGCACGCTCGTGGAAACCACACTCAAAGAGA  
 CAGAGAAGATTACAGTATGTGGGACACCCATGGCCAGTTCTATGACCTCCTCAACATATTCGAGCTCAA  
 CGGTTTACCCTCGGAGACCAACCCTATATATTTAATGGTACTTTGTGGACCGAGGCTCCTTCTCTGTA  
 GAAGTGATCCTCACCTTTTCGGCTTCAAGCTCCTGTACCCAGATCACTTTCACCTCCTTCGAGGCAACC  
 ACGAGACAGACAACATGAACCAGATCTACGGTTTCGAGGGTGAGGTGAAGCCAAGTACACAGCCAGAT  
 GTACGAGCTCTTTAGCGAGGTGTTTCAGTGGCTCCCGTTGGCCAGTGCATCAACGGCAAAGTGTGATC  
 ATGCACGGAGGCTGTTCAAGTGAAGACGGTGTACCCCTGGATGACATCCGAAAAATTGAGCGGAATCGAC  
 AACCCCCAGATTCAGGGCCATGTGTGACCTGCTGGTACAGTCCACAGCCACAGAAGCGGCGCTCGAT  
 CAGCAAGCGGGCGTGAGCTGTACGTTTGGGCTGAGCTCAGCAAGGCCTTCTTGGAAAGAGAACAACCTG  
 GACTATATCATCCGACGCCAAGTCAAGGCCGAGGGCTACGAGGTGGCTCACGAGGCGCTGTGTCA  
 CCGTCTTCTGCCCCAACTACTGCGACCAGATGGGGAACAAAGCCTCCTACATCCACCTCCAGGGCTC  
 TGACCTACGGCTCAGTTCACCAGTTCACAGCAGTGCCTCATCCCAACGTCAAGCCATGGCCTATGCC  
 AACACGCTGCTGCAGCTAGGAATGATG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG201650 representing NM\_006247  
 Red=Cloning site Green=Tags(s)

MMAAEGERTECAEPPRDEPPADGALKRAEELKTQANDYFKAKDYENAIKFYSQAIELNPSNAIYYGNRSL  
 AYLRTECYGALGDATRAIELDKKYIKGYRRAASNALGKFRAALRDYETVVVKVPHDKDAKMKYQECN  
 KIVKQKAFERAIAGDEHKRSVVDSLDIESMTIEDEYSGPKLEDGKVTISFMKELMQWYKDKLHRKCA  
 QILVQVKEVLSKSTLVETTLKETEKITVCGDTHGQFYDLLNIFELNGLPSETNPYIFNGDFVDRGSFV  
 EVILTLFGFKLLYPDFHLLRGNHETDNMNQIYGFEGEVKAKYTAQMYELFSEVFEWLPLAQCINGKVL  
 MHGGLFSEDGVTLDLDIRKIERNRQPPDSGPMCDLLWSDPQPQNGRSISKRGVSCQFDPDVTKAFLENNL  
 DYIIRSHEVKAEGYEVAHGGRCVTVFSAPNYCDQMGNKASYIHLQGSDLRPQFHQFTAVPHPNVKPMAY  
 NTLLQLGMM

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_006247

**ORF Size:** 1497 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\\_006247.4](#)

**RefSeq Size:** 2075 bp

**RefSeq ORF:** 1500 bp

**Locus ID:** 5536

**UniProt ID:** [P53041](#)

**Cytogenetics:** 19q13.32

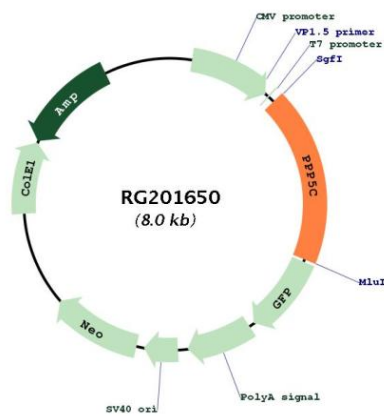
**Domains:** TPR, Metallophos

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** MAPK signaling pathway

**Gene Summary:** This gene encodes a serine/threonine phosphatase which is a member of the protein phosphatase catalytic subunit family. Proteins in this family participate in pathways regulated by reversible phosphorylation at serine and threonine residues; many of these pathways are involved in the regulation of cell growth and differentiation. The product of this gene has been shown to participate in signaling pathways in response to hormones or cellular stress, and elevated levels of this protein may be associated with breast cancer development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2011]

**Product images:**



Circular map for RG201650