

## Product datasheet for **RG200671**

### PPP2R4 (PTPA) (NM\_178000) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R4 (PTPA) (NM_178000) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP2R4
Synonyms:	PP2A; PPP2R4; PR53
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200671 representing NM_178000 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGAGGGCGAGCGGCAGCCGCCAGATTCTTCAGAGGAGGCCCTCCAGCCACTCAGAACTTCA  
TCATTCCAAAAAGGAGATCCACACAGTTCAGACATGGGCAAATGGAAGCGTTCTCAGGCATACGCTGA  
CTACATCGGATTCATCCTTACCCTCAACGAAGGTGTGAAGGGGAAGAAGCTGACCTTCGAGTACAGAGTC  
TCCGAGGCCATTGAGAACTAGTCGCTCTTCTCAACACGCTGGACAGGTGGATTGATGAGACTCCTCCAG  
TGGACCAGCCCTCTCGGTTTGGGAATAAGGCATACAGGACCTGGTATGCCAAACTTGATGAGGAAGCAGA  
AACTTGGTGGCCACAGTGGTCCCTACCCATCTGGCAGCTGCTGTGCCTGAGGTGGCTGTTACCTAAAG  
GAGTCAGTGGGGAATCCACGCGCATTGACTACGGCACAGGCATGAGGCAGCCTTCGCTGCTTTCCTCT  
GCTGTCTCTGCAAGATTGGGGTCTCCGGTGGATGACCAAATAGCTATTGTCTTCAAGGTGTTCAATCG  
GTACCTTGAGGTTATGCGGAAACTCCAGAAAACATACAGGATGGAGCCAGCCGGCAGCCAGGGAGTGTGG  
GGTCTGGATGACTTCCAGTTTCTGCCCTCATCTGGGCGAGTTCGCAGCTGATAGACCACCCATACCTGG  
AGCCCAGACACTTGTGGATGAGAAGGCCGTGAATGAGAACCACAAGGACTACATGTTCTGGAGTGTAT  
CCTGTTTATTACCGAGATGAAGACTGGCCATTTGCAGAGCACTCAACCAGCTGTGGAACATCAGCGCC  
GTCCCTTCTGGTCCAAAGTGAACCAGGGTCTCATCCGATGTATAAGGCCGAGTGCCTGGAGAAGTTCC  
CTGTGATCCAGCACTTCAAGTTCGGGAGCCTGCTGCCATCCATCCTGTACAGTCGGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200671 representing NM\_178000  
Red=Cloning site Green=Tags(s)

MAEGERQPPPDSSSEEAPPATQNFIIIPKKEIHTVPMGKWKRSQAYADYIGFILTLNEGKVKGKLTFEYRV  
 SEATIEKLVALLNTLDRWIDETPPVDQPSRFGNKAYRTWYAKLDEEAENLVATVVPHTLAAAVPEVAVYLK  
 ESVGNSTRIDYGTGHEAAFAAFLCCLCKIGVLRVDDQIAIVFKVFNRYLEVMRKLRKQTYRMEPAGSQGVW  
 GLDDDFQLPFIWGSQQLIDHPYLEPRHFVDEKAVNENHKDYMFLECILFITEMKTGPF AEHSNQLWNISA  
 VPSWSKVNQGLIRMYKAECKLEKFPVIQHFKF GSLLPIHPVTSG

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_178000

**ORF Size:** 969 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\\_178000.3](#)

**RefSeq Size:** 2736 bp

**RefSeq ORF:** 972 bp

**Locus ID:** 5524

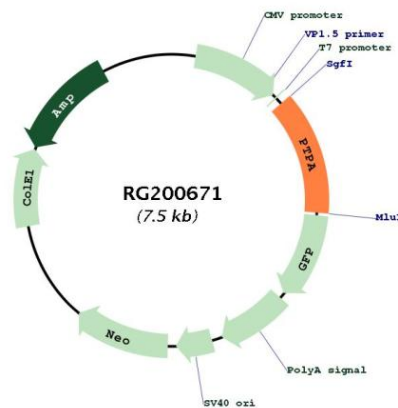
**UniProt ID:** [Q15257](#)

**Cytogenetics:** 9q34.11

**Protein Families:** Druggable Genome, Phosphatase

**Gene Summary:** Protein phosphatase 2A is one of the four major Ser/Thr phosphatases and is implicated in the negative control of cell growth and division. Protein phosphatase 2A holoenzymes are heterotrimeric proteins composed of a structural subunit A, a catalytic subunit C, and a regulatory subunit B. The regulatory subunit is encoded by a diverse set of genes that have been grouped into the B/PR55, B'/PR61, and B''/PR72 families. These different regulatory subunits confer distinct enzymatic specificities and intracellular localizations to the holoenzyme. The product of this gene belongs to the B' family. This gene encodes a specific phosphotyrosyl phosphatase activator of the dimeric form of protein phosphatase 2A. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG200671