

Product datasheet for **RG214397**

PPP2R4 (PTPA) (NM_178003) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R4 (PTPA) (NM_178003) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTPA
Synonyms:	PP2A; PPP2R4; PR53
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214397 representing NM_178003 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGAGGGCGAGCGGCAGCCGCCAGATTCTTCAGAGGAGGCCCTCCAGCCACTCAGAACTTCA
TCATTCCAAAAAGGAGATCCACACAGTTCAGACATGGGCAAATGGAAGCGTTCTCAGGCATACGCTGA
CTACATCGGATTCATCCTTACCCTCAACGAAGGTGTGAAGGGGAAGAAGCTGACCTTCGAGTACAGAGTC
TCCGAGGAAGCAGAAAACCTTGGTGGCCACAGTGGTCCCTACCCATCTGGCAGCTGCTGTGCCTGAGGTGG
CTGTTTACCTAAAGGAGTCAGTGGGAACTCCACGCGCATTGACTACGGCACAGGGCATGAGGCAGCCTT
CGCTGCTTTCCTCTGCTCTCTGCAAGATTGGGGTGTCCGGGTGGATGACCAAATAGCTATTGTCTTC
AAGGTGTTCAATCGGTACCTTGAGGTTATGCGGAACTCCAGAAAACATACAGGATGGAGCCAGCCGGCA
GCCAGGGAGTGTGGGTCTGGATGACTTCCAGTTTCTGCCCTTCTGCGGCAGTTCGCAGCTGATAGA
CCACCCATACCTGGAGCCAGACACTTTGTGGATGAGAAGGCCGTGAATGAGAACCACAAGGACTACATG
TTCCTGGAGTGTATCCTGTTTATTACCGAGATGAAGACTGGCCATTTGCAGAGCACTCCAACAGCTGT
GGAACATCAGCGCCGTCCTTCTGGTCCAAAGTGAACCAGGGTCTCATCCGCATGTATAAGGCCGAGTG
CCTGGAGAAGTTCCTGTGATCCAGCACTTCAAGTTCGGGAGCCTGCTGCCATCCATCCTGTACAGTCG
GGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214397 representing NM_178003
 Red=Cloning site Green=Tags(s)

MAEGERQPPPDSSSEEAPPATQNFIIIPKKEIHTVPMGKWKRSQAYADYIGFILTNEGVKGKLTFEYRV
 SEEAENLVATVVPHTLAAAVPEVAVYLKESVGNSTRIDYGTGHEAAFAFLCCLCKIGVLRVDDQIAIVF
 KVFNRYLEVMRKLQKTYRMEPAGSQGVWGLDDFQFLPFIWGSSQLIDHPYLEPRHFVDEKAVNENHKDYM
 FLECILFITEMKTGPFAEHSNQLWNI SAVPSWSKVNQGLIRMYKAECLEKFPVIQHFKFGSLLPIHPVTS
 G

TRTRPLE - GFP Tag - V

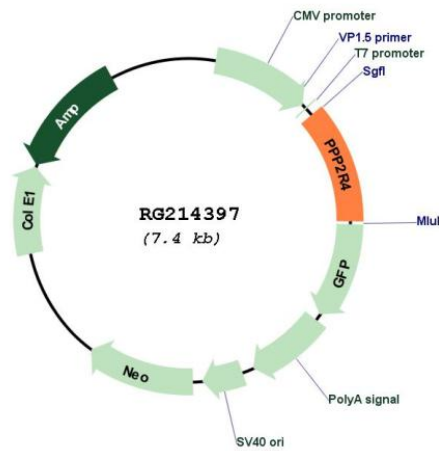
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_178003

ORF Size: 843 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:	<ol style="list-style-type: none">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_178003.3
RefSeq Size:	2610 bp
RefSeq ORF:	846 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]