

## Product datasheet for **RG212896**

### PCPTP1 (PTPRR) (NM\_002849) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCPTP1 (PTPRR) (NM_002849) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTPRR
Synonyms:	EC-PTP; PCPTP1; PTP-SL; PTPBR7; PTPRQ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG212896 representing NM\_002849  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGGAGAGCAGTCTGCTTCCCTGCGCTGTGCCTGCTCCTTAATCTTCACGCTGCAGGGTGCTTTTCAG  
 GAAACAATGATCATTTTTTGGCAATTAATCAGAAGAAGAGTGGGAAGCCGGTATTCATTTATAAGCATT  
 ACAAGACATTGAGAAGAGCCTGGATATAGCCCCACAAAAATCTACAGACATAGCTACCATTCTCTTCC  
 GAAGCTCAAGTAAGCAAACGCCACCAGATTGTCAATTCAGCATTTCCTAGACCCGCATATGACCCGTCTC  
 TCAATCTGCTGGCCATGGATGGTCAAGATCTTGAAGTGGAAAACTCCCAATCCCAGCAGCAAATGTAAT  
 TGTGGTGACACTGCAAATGGATGTAACAAGCTGAACATAACCTTGCTTCGGATCTTCGCCAAGGAGTG  
 GCTGCAGCTTTAGGACTTTACCCAGCAAGTGCACATCAATCGCCTCATTGGAAAGAAGAACAGTATTG  
 AACTGTTTGTGTCTCCATAAACCGAAAAACAGGAATTTCTGATGCTCTGCCCTCTGAGGAAGTTCTTCG  
 TTCACTTAATATCAATGTTTTGCATCAAAGTTTATCCAGTTTGGAAATACAGAAGTCTCTCCTGAGAAA  
 AATGTTTTACAAGGGCAGCATGAAGCGGACAAAATCTGGAGCAAAGAAGGATTTTATGCTGTTGCAATT  
 TTCTCAGCATCTTTGTTATTATAGTAACGTGTTTGATGATTCTTTACAGATTAAGAAAGATTTAGCT  
 TTCTTAAAGACAAGACAAGAGAAAAACCAGGAGATCCACCTATCGCCATCACATTACAGCCAGCACTG  
 TCCGAGGCAAAGACAGTCCACAGCATGGTCCAACCTGAGCAGGCCCAAAGGTAAGTGTGTCGTGG  
 ACCCTCAAGGCCGAGGTGCTCCTGAGATCAGAGCTACCACCGCTACCTCTGTTTGCCTTCTCCTTTCAA  
 AATGAAGCCCATAGGACTTCAAGAGAGAAGAGGGTCCAACGTATCTTTACATTGGACATGAGTAGCTTG  
 GGAACATTGAACCTTTGTGTCTATACCAACACCACGGGAGAAGGTAGCAATGGAGTATCTGCAGTCAG  
 CCAGCCGAATTCACAAGGTCTCAGCTGAGGGACGTCGTGGCAAGTTCACATTTACTCCAAAGTGAAT  
 CATGGAATACCAATGAACCTTTGTGGATCCCAAAGAAATGATATTCCGGCTCATGGAACATAAAAAATCGC  
 TATAAGACCATTTTACCAATCCCTCAGCAGAGTGTGTTAAGACCAAAAAATGTAACCGATTCAATTGA  
 GCACCTACATTAATGCTAATTATATTAGGGCTACAGTGGCAAGGAGAAAGCCTTCATTGCCACGCAGGG  
 CCCCATGATCAACACCGTGGATGATTTCTGGCAGATGGTTTGGCAGGAAGACAGCCCTGTGATTGTTATG  
 ATCACAAAACCTCAAAGAAAAAATGAGAAATGTGTGCTATACTGGCCGAAAAGAGAGGGATATATGGAA  
 AAGTTGAGTTCTGGTTATCAGTGTAAATGAATGTGATAACTACACCATTGAAACCTTGTCTTAAAGCA  
 AGGAAGCCACACCAACATGTGAAGCATTACTGGTACACCTCATGGCCTGATCACAAGACTCCAGACAGT  
 GCCAGCCCTCCTACAGCTCATGCTGGATGTAGAAGAAGACAGACTTGCTTCCAGGGCCGAGGGCCTG  
 TGGTTGTCCACTGCAGTGCAGGAATAGGTAGAACAGGGTGTATTGCTACATCCATTGGCTGTCAACA  
 GCTGAAAGAAGAAGGAGTTGTGGATGACTAAGCATTGTCTGCCAGCTTCGTATGGATAGAGGTGGAATG  
 GTGCAAACAGTGAGCAGTATGAATTTGTGCACCATGCTCTGTGCCTGTATGAGAGCAGACTTTCAGCAG  
 AGACTGTCCAG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG212896 representing NM\_002849  
 Red=Cloning site Green=Tags(s)

MRAVCFPALCLLLNLHAAGCFSGNNDHFLAINQKKSGKPVFIYKHSQDIEKSLDIAPQKIYRHSYHSS  
 EAQVSKRHQIVNSAFPRPAYDPSLNLAMDGDLEVENLPIPAANVIVVTLQMDVNKLNITLLRIFRQGV  
 AAALGLLPQQVHINRLIGKKNSELVSPINRKTGISDALPSEEVLRLSLNINVLHQSLSQFGITEVSPEK  
 NVLQGGHEADKIWSKEGFYAVVIFLSIFVVIIVTCLMILYRLKERFQLSLRQDKEKNQEIHLSPIITLQPAL  
 SEAKTVHSMVQPEQAPKVLNVVDPQGRGAPEIRATTATSVCPSPFKMKPIGLQERRGSNVSLTLDMSL  
 GNIEPFVSIPTPREKVAMEYLQASRILTRSQRDQVASSHLLQSEFMEIPMNFVDPKEIDIPRHGKTR  
 YKTILPNPLSRVCLRPKNVTDLSLTYINANYIRGYSKKEKAFIATQGPMINTVDDFWQMVWQEDSPVIVM  
 ITKLKEKNEKCVLYWPEKRGYKVEVLVISVNECDNYTIRNLVLKQGSHTQHVVKHYWYTSWPDHKTPDS  
 AQPLLQLMLDVEEDRLASQGRPVVHCSAGIGRTGCFIATSIGCQQLKEEGVVDALSIVCQLRMDRGGM  
 VQTSEQYEFVHHALCLYESRLSAETVQ

TRTRPLE - GFP Tag - V

Restriction Sites:

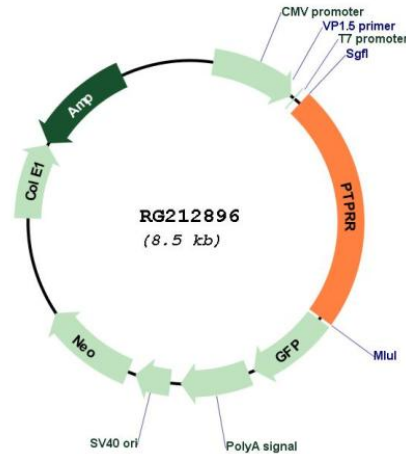
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



## Plasmid Map:



ACCN: NM\_002849

ORF Size: 1971 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\\_002849.2](#), [NP\\_002840.1](#)

RefSeq Size:	3492 bp
RefSeq ORF:	1974 bp
Locus ID:	5801
UniProt ID:	<a href="#">Q15256</a>
Cytogenetics:	12q15
Domains:	Y_phosphatase, PTPc_motif
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
Protein Pathways:	MAPK signaling pathway
Gene Summary:	<p>The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP possesses an extracellular region, a single transmembrane region, and a single intracellular catalytic domain, and thus represents a receptor-type PTP. Silencing of this gene has been associated with colorectal cancer. Multiple transcript variants encoding different isoforms have been found for this gene. This gene shares a symbol (PTPRQ) with another gene, protein tyrosine phosphatase, receptor type, Q (GeneID 374462), which is also located on chromosome 12. [provided by RefSeq, May 2011]</p>