

Product datasheet for **RG238835**

PCPTP1 (PTPRR) (NM_001207015) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCPTP1 (PTPRR) (NM_001207015) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCPTP1
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:

>RG238835 representing NM_001207015.
Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGCAGTCAATTTCCAAACAGACACTGCAATGGATGTAACAAGCTGAACATAACCTTGCTTCGGATC
TTCCGCCAAGGAGTGGCTGCAGCTTTAGGACTTTACCCAGCAAGTGCACATCAATCGCCTCATTGGA
AAGAAGAACAGTATTGAACTGTTTGTGTCTCCATAAACCGAAAAACAGGAATTTCTGATGCTCTGCC
TCTGAGGAAGTTCTTCGTTCACTTAATATCAATGTTTTCATCAAAGTTTATCCAGTTTGAATTACA
GAAGTCTCTCCTGAGAAAAATGTTTACAAGGGCAGCATGAAGCGGACAAAATCTGGAGCAAAGAAGGA
TTTTATGCTGTTGTCATTTTCTCAGCATCTTTGTTATTATAGTAACGTGTTTGATGATTCTTTACAGA
TTAAAAGAAAGATTTAGCTTTCTTAAGACAAGACAAAGAGAAAAACCAGGAGATCCACCTATCGCCC
ATCACATTACAGCCAGCACTGTCCGAGGCAAAGACAGTCCACAGCATGGTCCAACCTGAGCAGGCCCA
AAGGTACTGAATGTTGCTGGACCTCAAGGCCGAGGTGCTCCTGAGATCAAAGCTACCACCGCTACC
TCTGTTTGCCTTCTCCTTTCAAATGAAGCCCATAGGACTTCAAGAGAGAAGAGGTCCAACGTATCT
CTTACATTGGACATGAGTAGCTTGGGGAACATTGAACCTTTGTGTCTATACCAACACCACGGGAGAAG
GTAGCAATGGAGTATCTGCAGTCAGCCAGCCGAATTCACAAGGTCTCAGCTGAGGGACGTCGTGGCA
AGTTCACATTTACTCAAAGTGAATTCATGGAATACCAATGAACCTTTGTGGATCCCAAAGAAATGAT
ATTCCGCGTCATGGAACATAAAATCGCTATAAGACCATTTTACCAATCCCTCAGCAGAGTGTGTTTA
AGACAAAAAATGTAACCGATTCATTGAGCACCTACATTAATGCTAATTATATTAGGGGTACAGTGGC
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TGGCAGGAAGACAGCCCTGTGATTGTTATGATCACAAACTCAAAGAAAAAATGAGAAATGTGTGCTA
TACTGGCCGAAAAAGAGAGGGATATATGAAAAAGTTGAGGTTCTGTTTATCAGTGAAATGAATGTGAT
AACTACACCATTGAAACCTTGTCTTAAAGCAAGGAAGCCACACCAACATGTGAAGCATTACTGGTAC
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GAAGACAGACTTGCTTCCAGGGCCGAGGGCCTGTGTTGTCCACTGCAGTGCAGGAATAGGTAGAACA
GGGTGTTTTATTGCTACATCCATTGGCTGTCAACAGCTGAAAGAAGAAGGAGTTGTGGATGCACTAAGC
ATTGCTGCCAGCTTCGTATGGATAGAGGTGGAATGGTGCAAACAGTGAGCAGTATGAATTTGTGCAC
CATGCTCTGTGCCTGTATGAGAGCAGACTTTCAGCAGAGACTGTCCAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence:

>Peptide sequence encoded by RG238835
Blue=ORF Red=Cloning site Green=Tag(s)

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MQSISKQTLQMDVKNLITLLRIFRQGVAAALGLLPQVHINRLIGKKNISIELFVSPINRKTGISDALP
SEEVLRSLNINVLHQSLSQFGITEVSPEKNVLQGQHEADKIWSKEGFYAVVIFLSIFVIIIVTCLMILYR
LKERFQLSLRQDKEKNQEIHLSPITLQPALSEAKTVHSMVQPEQAPKVLNVVDPQGRGAPEIKATTAT
SVCPSPFKMKPIGLQERRGSNVSLTDMSSLGNIEPFVSIPTPREKVAMEYLSASRILTRSQRDVVA
SSHLLQSEFMEIPMNFVDPKEIDIPRHGTKNRYKTILPNPLSRVCLRPKNVTDLSLYINANYIRGYS
KEKAFIATQGPMINTVDDFWQMVWQEDSPVIVMITKLKEKNEKCVLYWPEKRGYKVEVLVISVNECD
NYTIRNLVLKQGSHTQHVKHYYTSPDHKTPDSAQPLLQLMLDVEEDRLASQGRGPVVVHCSAGIGRT
GCFIATSIGCQQLKEEGVVDALSIVCQLRMDRGMVQTSEQYEFVHALCLYESRLSAETVQ
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites:

Sgfl-MluI

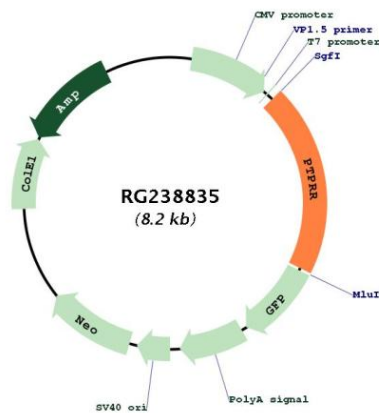
Cloning Scheme:


ACCN:	NM_001207015
ORF Size:	1659 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).
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001207015.2
RefSeq Size:	2860 bp
RefSeq ORF:	1638 bp
Locus ID:	5801
UniProt ID:	Q15256
Cytogenetics:	12q15
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
Protein Pathways:	MAPK signaling pathway
MW:	61.9 kDa

Gene Summary:

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]

Product images:



Circular map for RG238835