

Product datasheet for **RG221383**

PTPRD (NM_130391) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPRD (NM_130391) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTPRD
Synonyms:	HPTP; HPTPD; HPTPDELTA; PTPD; R-PTP-delta; RPTPDELTA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221383 representing NM_130391 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGCACGTAGCCAGGCTGCTGCTGCTCCTCACTTTCTTCTCCGCACGGATGCTGAGACACCTC
CAAGGTTTACACGAACACCCGTTGATCAGACAGGGTCTCTGGCGGAGTTGCCTCTTTCATCTGCCAAGC
TACGGGAGACCAAGACCTAAAATTGTCTGGAACAAAAAGAAAGAAAGTCAGCAATCAGAGATTTGAG
GTAATAGAGTTTGACGATGGGTCTGGATCAGTTCTCAGAATACAACCCTTACGGACTCCGAGGGATGAGG
CCATTTATGAATGTGTGGCCTCAAATAATGTGGGAGAAATAAGTGTATCCACCAGACTCACAGTTTTGCG
GGAAGATCAAATCCCAGGGCTTCCCTACCATTGACATGGGCCACAGTTGAAGGTGGTTGAGCGTACT
CGCACGGCCACCATGCTTTGTGCAGCCAGTGGTAAATCCGGATCCAGAAATCACTTGGTTTAAAGATTTCT
TACCTGTGGACACAAGCAACAACATGGTCGTATTAAGCAGTTACGATCAGAATCTATTGGTGGTACACC
AATAAGAGGAGCCCTTCAGATTGAGCAGAGTGAAGAGTCTGACCAAGGAAAAATAGAGTGTGTTGCCACC
AACAGCGCGGGCACTCGCTATCCGCTCCTGCCAATTTATATGTCAGAGAGCTGCGAGAAGTTCCGCCGTG
TCCCACCAAGATTCTCTATCCCACCCACTAATCATGAAATCATGCCAGGCGGAAGCGTTAATACACCTG
TGTGGCCGTGGGTACCAATGCCTTATGTAAGTGGATGTTGGGGCAGAAGATCTGACACCTGAAGAT
GATATGCCAATAGGAAGAAATGTGCTAGAATGAATGATGTAAGACAGTCAGCAAATACACCTGTGTTG
CTATGTCAACACTGGGTGTCATTGAAGCAATAGCACAGATCACTGTCAAAGCCTTACCCAAACCTCCAGG
AACTCCTGTAGTGACCGAGAGCAGCTACAAGCATCACACTGACGTGGGACTCTGGGAACCTGAGCCT
GTTTCTTATTACATAATTCAGCATAAACCTAAAACTCTGAGGAACCTTACAAAGAAATGATGGGTGG
CGACCACAGCTACAGTGTGCTGGACTAAGTCCCTACTCGGATTATGAATTCAGGGTGTGCTGTCAA
TAACATTGGGCGGGGCTCCAGCGAACCTGTGCTAACACAAACCTCAGAGCAAGCACCATCCAGTGCC
CCGAGGGATGTCCAGGCAGAAATGTTGAGTTCGACCACCATTTTGGTACAGTGAAGGAACCTGAAGAGC
CAAATGGACAGATCCAAGGATATAGAGTTTATTATACAATGGATCCCACTCAACATGTCAACAACCTGGAT
GAAACACAATGTAGCTGACAGCCAAATCACTACTATTGGCAACTTAGTGGCCAGAAAACATATTCTGTC



[View online >](#)

AAAGTCCTGGCTTTTACCTCAATTGGAGATGGTCCCCTTTCAAGTGACATACAAGTCATCACTCAGACAG
 GAGTACCAGGGCAGCCACTAAACTTCAAAGCAGAACCTGAGTCTGAAACAAGTATTTTGCTCTCTGGAC
 ACCTCCACGTTTACAGATACCATTGCCAATATGAACTGGTCTACAAAGATGGGGAGCATGGAGAGGAGCAA
 CGAATTACCATTGAGCCAGGGACATCATATAGGCTGCAAGGACTGAAACCAAACAGCTTATACTATTTCC
 GTCTGGCTGCACGCTCCCTCAAGGCTGGGTGCTTCTACTGCAGAAATATCAGCTAGAACCATGCAGTC
 AATGTTTGCAAAAAATTTTCATGTCAAAGCAGTAATGAAGACTCCGTGTTGCTGTCTGGGAGATTCCA
 GAGAATTATAACTCCGCCATGCCTTTCAAATTTCTTTATGATGATGGGAAAATGGTAGAAGAAGTGGATG
 GCCGAGCCACACAGAAGTTAATTGTCAACCTGAAGCCTGAGAAAATCATATTCATTTGTGCTGACAAATCG
 TGGAAACAGTGCTGGTGGGCTGCAGCACAGGGTACGGCAAAGACTGCACCAGATGTATTACGTACCAAG
 CCTGCCTTATTGGGAAGACCAACTTGGATGGCATGATTACTGTGCAACTGCCTGAAGTACCTGCAAATG
 AGAATATAAAAAGTTACTACATAATAATTGTGCCTTTGAAGAAATCTCGCGGGAAATTTATCAAGCCATG
 GGAGAGTCCAGATGAAATGGAATTAGATGAGCTGCTTAAGGAGATATCTAGGAAGCGCAGAAGCATCCGT
 TATGGGAGAGAAGTTGAATTAAGCCATATATTGCCGCTCACTTTGATGTCCTTCCCCTGAGTTCACCC
 TGGGGGATGACAAGCATTATGGTGGATTACAACAAGCAACTCCAAAGTGGTCAAGAATATGCTTCTT
 TGTGTTAGCAGTAATGGAACATGCAGAGTCTAAGATGTATGCAACCAGCCCTTACTCCGACCCCGTGGTG
 TCAATGGATCTGGATCCGCAGCCAAATCAGGATGAAGAAGAAGGCTTGATCTGGGTTGTAGGTCCTGTCC
 TTGCAGTGGTCTTTATCATCTGCATTGTCAATTGCTATTCTTTATAAAAAGTAAACCCGACAGGAAGAG
 GGCAGAGTCCGACTCTAGAAAAAGCAGCATACCGAAACAATAAGGAGATCCCTTACACCACCCAACAGAC
 CCTGTAGAAGTGAAGGCGCCTTAACCTTCAAACACCGGGTATGGCTAGCCATCCTCCAATACCCATCTTGG
 AACTTGCAGACCACATTGAAAGATTGAAAGCAAATGACAACTTGAAGTTTTCCAGGAATATGAGTCAAT
 TGACCTGGCCAGCAGTTCATTGGGAACATTCAACTTGAAGTAAACAAACCAAGAATAGATACGCG
 AATGTAATCGCATATGATCATTCCCGGGTCTCCTATCAGCTATAGAAGGGATCCAGGAAGTGCATG
 TGAATGCCAACTACATAGATGGGTATAGGAAGCAAAAATGCCTATATTGCAACACAGGGATCTCCCCGA
 AACATTTGGGGACTTTTGGAGAATGATATGGGAACAACGGAGTGCCACAGTTGTCATGATGACAAAATA
 GAAGAAAGATCAAGGGTGAAGTGTGACCAGTATTGGCCTAGCAGAGGCACAGAAACCCACGGACTCGTTC
 AAGTAACGCTGCTTGATACTGTGGAGCTGGCCACATATTGTGTTGCAACATTTGCACTTTACAAGAATGG
 TTCAAGTGAAGAGAGAAGTGAGACAATTCAGTTTACCAGCCTGGCCTGATCATGGTGTCCAGAACAC
 CCTACACCTTTTCTAGCTTTTCTACGTAGAGTCAAACCTGTAACCCTCCCGATGCTGGTCCGATGGTTG
 TGCAGTGCAGTGCAGGAGTTGGCCGACTGGTTGCTTTCATCGTCATAGATGCCATGTTAGAAGAATAAA
 GCATGAAAAAAGTGTAGATATTTATGGCCATGTAACCTTAAATGAGAGCCCAGAGGAATATATGGTTCAA
 ACAGAAGACCAATACATCTTTATCCATGATGCACTGTTAGAAGCAGTGACTTGTGGAATACCGAAGTGC
 CAGCTAGAAACTTGTATGCCTACATTGAGAAGCTGACACAAATAGAAACGGGAGAGAATGTCACAGGAAT
 GGAGCTCGAATTTAAGCGTCTAGCCAGCTCAAAAGCTCACACCTCAAGGTTTATCAGTGCCAATCTTCCA
 TGTAATAAATTTAAAAATCGCCTTGTTAATATTATGCCATATGAATCCACAAGGGTATGCCTGCAGCCTA
 TCCGTGGAGTAGAAGGATCTGATTACATCAATGCCAGTTTTATTGATGGATACAGACAACAGAAAGCCTA
 CATCGCTACCCAGGGGCCCTTGGCAGAGACCACTGAAGACTTCTGGCGGATGCTCTGGGAACACAATTCC
 ACCATAGTTGTGATGCTACCAAGCTGCGTGAATGGGCAGAGAGAAATGTCACCAACTGCGCCAGCAG
 AACGGTCTGCAAGATACCAGTACTTTGTTGTAGATCCCATGGCTGAGTACAACATGCCACAGTATATCCT
 AAGGGAATTCAGGTACAGATGCCAGGGACGGCCAGTCCCGAACAGTAAGGCAGTCCAGTTCAGTTCAGT
 TGCCAGAGCAAGGAGTGCCAAAGTCCGGAGAAGGATTTATTGACTTTCATCGGCCAAGTCCATAAAACAA
 AAGAACAGTTTGGCCAAGATGGACCCATTTAGTCCATTGACAGCGGGGCTTGGAGAAGTGGAGTCTT
 CATAACGCTAAGCATTGTTTTGGAAAGAATGAGATATGAAGGAGTTGTAGATATCTTCCAGACTGTCAA
 ATGTTAAGAACAACGACCAGCTATGGTACAGACAGAGGATCAATATCAGTTTTCTATCGTGCCGCAC
 TAGAGTACCTGGCAGCTTTGACCACTATGCAACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG221383 representing NM_130391
 Red=Cloning site Green=Tags(s)

MVHVARLLLLLLTFFLRDTAETPPRFTRTPVDQTVSGGVASFICQATGDPRPKIVWNKKGKKVSNQRFE
 VIEFDDGSGSVLRIQPLRTPRDEAIYECVASNNVGEISVSTRLTVLREDQIPRGFPTIDMGPLKVVVERT
 RTATMLCAASGNPDPEITWFKDFLPVDTSNNGRIKQLRSESIGGTPIRGALQIEQSEESDQKYEVCVAT
 NSAGTRYSAPANLYVRELREVRVPPRFSSIPPTNHEIMPGGSVNICVAVGSPMPYVWMLGAEDLTPED
 DMPIGRNVLELNDVRQSANYTCVAMSTLGVIEIAQITVKALPKPPGTPVVTESTATSITLTWDSGNPEP
 VSYIYIQHKPKNSEELYKEIDGVATTRYVAVGLSPYSDYEFVAVVANNIGRGPSEPVLQTQSEQAPSSA
 PRDQVQARMLSSITILVQWKEPEEPNGQIQGYRVYYTMDPTQHVNNWVKHNVADSQITITGNLVPQKTYSV
 KVLAFSTIGDGLSSDIQVITQTGVPGQPLNFKAPESETSILLSWTPPRSDTIANYELVYKDGEGEEQ
 RITIEPGTSYRLQGLKPNLSYFRLAARSPQGLGASTAEISARTMQSMFAKNFHVKAVMKTSVLLSWEIP
 ENYNSAMPFKILYDDGKMVEEVDGRATQKLIIVNLKPEKSYFVLNTRGNSAGGLQHRVTAKTAPDVLRTK
 PAFIGKTNLDGMITVQLPEVPANENIKGYYIIIVPLKKSARGKFIKPWESPDEMEDELLEKISRKRRSIR
 YGREVELKPYIAAHFDVLPTEFTLGDGKHGGFTNKQLQSGQYVFFVLAVMEHAESKMYATSPYSDPVV
 SMDLDPQIPITDEEGLIIVVGPVLA VVFIICIVIAILLYKSKPDRKRAESDSRKSSSIPNNKEIPSHHPTD
 PVELRRLNFQTPGMASHPPPIPIELADHIERLKANDNLKFSQYYESIDPGQQFTWEHSNLEVNKPKNRYA
 NVIAYDHSRVLLSAIEGIPGSDYVNANYIDGYRKQNAIATQGSLPETFGDFWRMIWEQRSATVMMTKL
 EERSRVKCDQYWP SRGTEHGLVQVTLTDTVELATYCVRTFALYKNGSSEKREVRQFQFTAWPDHGVPEH
 PTPFLAFLRRVKT CNPPDAGPMVVHCSAGVGRGTGCFIVIDAMLERIKHEKTVDIYGHVTLMRAQRNVMVQ
 TEDQYIF IHDALLEAVTCGNTEVPARNLYAYIQKLTQIETGENVTGMELEFKRLASKAHTSRFISANLP
 CNKFKNRLVNIIMPYESTRVCLQPIRGVEGSDYINASFIDGYRQQKAYIATQGPLAETTEDFWRMLWEHNS
 TIVVMLTKLREMGREKCHQYWP AERSARYQYFVVDPMAEYNMPQYILREFKVTDARDGQSRTVRFQFTD
 WPEQGVPKSGEGFIDF IGQVHKTKEQFGQDGPISVHCSAGVGRGTGVFITLSIVLERMRYEGVVDIFQTVK
 MLRTQRPAMVQTEDQYQFSYRAALEYLGSGFDHYAT

TRTRPLE - GFP Tag - V

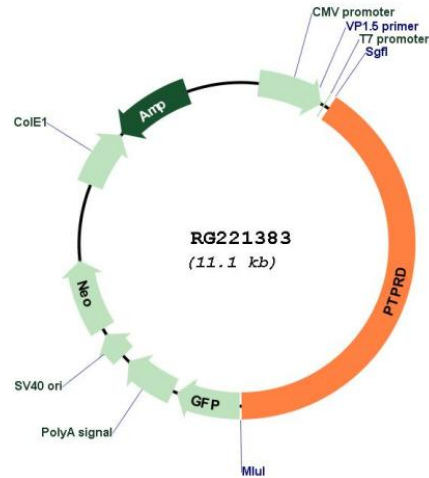
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_130391

ORF Size: 4515 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_130391.4
RefSeq Size:	8266 bp
RefSeq ORF:	4518 bp
Locus ID:	5789
UniProt ID:	P23468
Cytogenetics:	9p24.1-p23
Domains:	Y_phosphatase, ig, PTPc_motif, IGc2, IG, FN3
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
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 contains an extracellular region, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region of this protein is composed of three Ig-like and eight fibronectin type III-like domains. Studies of the similar genes in chicken and fly suggest the role of this PTP is in promoting neurite growth, and regulating neurons axon guidance. Multiple alternatively spliced transcript variants of this gene have been reported. A related pseudogene has been identified on chromosome 5. [provided by RefSeq, Jan 2010]</p>