

Product datasheet for RC230722

PTPRD (NM_001171025) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPRD (NM_001171025) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTPRD
Synonyms:	HPTP; HPTPD; HPTPDELTA; PTPD; R-PTP-delta; RPTPDELTA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC230722 representing NM_001171025 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGACGCTAGCCAGGCTGCTGCTGCTCCTCACTTTCTTCTCCGCACGGATGCTGAGACACCTC
CAAGGTTTACACGAACACCCGTTGATCAGACAGGGGTCTCTGGCGGAGTTGCCTTTTCATCTGCCAAGC
TACGGGAGACCAAGACCTAAAATTGTCTGGAACAAAAAGGAAAGAAAGTCAGCAATCAGAGATTTGAG
GTAAATAGAGTTTGACGATGGGTCTGGATCAGTTCTCAGAATACAACCTTACGGACTCCGAGGGATGAGG
CCATTTATGAATGTGTGGCCTCAAATAATGTGGGAGAAATAAGTGTATCCACCAGACTCACAGTTTTGCG
GGAAGATCAAATCCCAGGGGCTTCCCTACCATTGACATGGGCCACAGTTGAAGGTGGTTGAGCGTACT
CGCACGGCCACCATGCTTTGTGCAGCCAGTGGTAATCCGGATCCAGAAATCACTTGGTTAAAGATTTCT
TACCTGTGGACACAAGCAACAACAATGGTCGTATTAAGCAGTTACGATCAGAATCTATTGGAGCCCTTCA
GATTGAGCAGAGTGAAGAGTCTGACCAAGGAAAATATGAGTGTGTTGCCACCAACAGCGCGGGCACTCGC
TATTCGGCTCCTGCCAATTTATATGTCAGAGTTCGCCGTGCCACCAAGATTCTATCCCACTCACTA
ATCATGAAATCATGCCAGGCGGAAGCGTTAATATCACCTGTGTGGCCGTGGGGTCACTCAATGCCTTATGT
AAAGTGGATGTTGGGGCAGAAGATCTGACACCTGAAGATGATAGCCAATAGGAAGAAATGTGCTAGAA
CTGAATGATGTAAGACAGTCAGCAAATTACACCTGTGTTGCTATGTCAACACTGGGTGTCATTGAAGCAA
TAGCACAGATCACTGTCAAAGCCTTACCAAACTCCAGGAACCTCCTGTAGTGACCGAGAGCACAGCTAC
AAGCATCACACTGACGTGGGACTCTGGGAACCTGAGCCTGTTTCTTATTACATAATTACAGATAAACT
AAAACTCTGAGGAACCTTACAAGAAATTGATGGGGTGGCGACCACACGCTACAGTGTCTGCTGGACTAA
GTCCCTACTCGGATTATGAATTCAGGGTGTGCTGTCAATAACATTGGCGGGGCTCCAGCGAACC
TGTGCTAACACAACTCAGAGCAAGCACCATCCAGTGCCTGAGGGATGTCCAGGCACGAATGTTGAGT
TCGACCACCATTTTGGTACAGTGAAGGAACCTGAAGAGCCAAATGGACAGATCCAAGGATATAGAGTTT
ATTATACAATGGATCCCACTCAACATGTCAAACTGGATGAAACACAATGTAGCTGACAGCCAAATCAC
TACTATTGGCAACTTAGTGCCCCAGAAAACATATTCTGTCAAAGTCTGGCTTTTACCTCAATTGGAGAT
GGTCCCCTTTCAAGTGACATACAAGTCATCACTCAGACAGGAGTACCAGGGCAGCCACTAACTTCAAAG



[View online »](#)

CAGAACCTGAGTCTGAAACAAGTATTTTCTCTCTGGACACCTCCACGTTCCAGATACCATTGCCAACTA
TGAAGTGGTCTACAAAGATGGGGAGCATGGAGAGGAGCAACGAATTACCATTGAGCCAGGGACATCATAT
AGGCTGCAAGGACTGAAACCAACAGCTTATACTATTTCCGTCTGGCTGCACGCTCCCCTCAAGGCTGG
GTGCTTCTACTGCAGAAATATCAGCTAGAACCATGCAGTCAATGTTTGCAAAAAATTTTCATGTCAAAGC
AGTAATGAAGACTTCCGTGTTGCTGTCTGGGAGATTCCAGAGAATTATAACTCCGCCATGCCTTTCAA
ATTCCTTATGATGATGGGAAAATGGTAGAAGAAGTGGATGGCCGAGCCACACAGAAGTTAATTGTCAACC
TGAAGCCTGAGAAATCATATTCATTTGTGCTGACAAATCGTGAAACAGTGTGGTGGCTGCAGCACAG
GGTCACGGCAAAGACTGCACCAGATGTATTACGTACCAAGCCTGCCTTCATTGGGAAGACCAACTTGGAT
GGCATGATTACTGTGCAACTGCCTGAAAGTACCTGCAAAATGAGAATATAAAAGTTACTACATAAATTTG
TGCTTTGAAGAAATCTCGCGGAAATTTATCAAGCCATGGGAGAGTCCAGATGAAATGGAATTAGATGA
GCTGCTTAAGGAGATATCTAGGAAGCGCAGAAGCATCCGTTATGGGAGAGAAGTTGAATTAAGCCATAT
ATTGCCGCTCACTTTGATGCTCTCCACTGAGTTCACCCTGGGGATGACAAGCATTATGGTGGATTTA
CAAACAAGCAACTCAAAGTGGTCAAGAATATGTCTTCTTTGTGTAGCAGTAATGGAACATGCAGAGTC
TAAGATGTATGCAACCAGCCCTTACTCCGACCCCGTGGTGTCAATGGATCTGGATCCGCAGCCAATCAG
GATGAAGAAGAAGCTTGATCTGGTGTAGGTCCTGTCTTGCAGTGGTCTTTATCATCTGCATTGTCA
TTGCTATTTCTTTTATAAAAGGAAGAGGGCAGAGTCCGACTCTAGAAAAAGCAGCATACCGAACATAA
GGAGATCCCTTACACCACCAACAGACCTGTAGAAGTGAAGGCGCTTAACTTTCAAACACCGGTTCA
GATGATCCGGTTACCCTGGTAACCTTCATTCTCAAGTATGGCTAGCCATCCTCCAATACCCATCTTGG
AACTTGCAGACCACATTGAAAGATTGAAAGCAAATGACAAGTGAAGTTTTCCAGGAATATGAGTCAAT
TGACCCTGGCCAGCAGTTCATTGGGAACATTCAAACTTGAAGTAAACAAACCAAGAATAGATACGCG
AATGTAATCGCATATGATCATTCCCGGTTCTCCTATCAGCTATAGAAGGGATCCAGGAAGTACTATG
TGAATGCCAATACATAGATGGGTATAGGAAGCAAAATGCCTATATTGCAACACAGGGATCTCCCCGA
AACATTTGGGGACTTTTGGAGAATGATATGGGAACAACGGAGTGCCACAGTTGTATGACAAAACTA
GAAGAAAAGATCAAGGGTGAAGTGTGACCAGTATTGGCCTAGCAGAGGCACAGAAAACCCAGGACTCGTTC
AAGTAACGCTGCTTGATCTGTGGAGCTGGCCACATATTGTGTTGAAACATTTGCACTTTACAAGATGG
TTCAAGTGAAGAGAGAAGTGAAGACAATTCAGTTCACCGCCTGGCCTGATCATGGTGTCCAGAACAC
CCTACACCTTTTCTAGCTTTTCTACGTAGAGTCAAAACCTGTAACCCTCCCGATGCTGGTCCGATGGTTG
TGCAGTGCAGTGCAGGAGTTGGCCGACTGTTGCTTCATCGTCATAGATGCCATGTTAGAAAGAATAAA
GCATGAAAAAAGTGTAGATATTTATGGCCATGTAACCTTAAATGAGAGCCAGAGGAATATATGGTTCAA
ACAGAAGACCAATACATCTTTATCCATGATGCACTGTTAGAAGCAGTGACTTGTGGAATACCGAAGTGC
CAGCTAGAAACTTGTATGCCTACATTGAGAAGCTGACACAAATAGAAACGGGAGAGAATGTCACAGGAAT
GGAGCTCGAATTTAAGCGTCTAGCCAGCTCAAAAGCTCACACCTCAAGGTTTATCAGTGCCAATCTCCA
TGTAATAAATTCAAAAATCGCCTTGTTAATATTATGCCATATGAATCCACAAGGGTATGCCTGCAGCCTA
TCCGTGGAGTAGAAGGATCTGATTACATCAATGCCAGTTTTATTGATGGATACAGACAACAGAAAGCCTA
CATCGCTACCCAGGGCCCTTGGCAGAGACCACTGAAGACTTCTGGCGGATGCTCTGGGAACACAATTC
ACCATAGTTGTGATGCTACCAAGCTGCGTGAAATGGGCAGAGAGAAATGTCACCAATACTGGCCAGCAG
AACGGTCTGCAAGATACCAGTACTTTGTTGTAGATCCCATGGCTGAGTACAACATGCCACAGTATATCCT
AAGGGAATTCAGGTACAGATGCCAGGGACGGCCAGTCCCGAACAGTAAGGCAGTTCAGTTCACTGAC
TGGCCAGAGCAAGGAGTGCCAAAGTCCGGAGAAGGATTTATTGACTTCATCGGCAAGTCCATAAAACAA
AAGAACAGTTTGGCCAAGATGGACCCATTTGAGTCCATTGCAGCGCGGGGTTGGAAGAAGTGGAGTCTT
CATAACGTAAGCATTGTTTTGGAAGAATGAGATATGAAGGAGTTGTAGATATCTCCAGACTGTCAAA
ATGTTAAGAACAACGACCAGCTATGGTACAGACAGAGGATCAATATCAGTTTTCTATCGTGCCGCAC
TAGAGTACCTGGGAGCTTTGACCACTATGCAACG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230722 representing NM_001171025
 Red=Cloning site Green=Tags(s)

```

MVHVARLLLLL TFFLR TDAETPPRFTRTPVDQTVSGGVASFICQATGDPRPKI VWNKKGKKVSNQRFE
VIEFDDGSGSVLR IQPLRTPRDEAIYECVASNNVGEISVSTRLTVLREDQIPRGFPTIDMGPQLKVVERT
RTATMLCAASGNPDPEITWFKDFLPVDTSNNGRIKQLRSESIGALQIEQSEESDQKGKYECVATNSAGTR
YSAPANLYVRVRVPPRF SIPP TNHEIMP GGSVNITCVAVGSPMPYVKWMLGAEDLTPEDDMP IGRNVLE
LNDVRQSANYTCVAMSTLGVIEAIAQITVKALPKPPGTPVTESTATSITL TWDSGNPEPVSYIIQHKP
KNSEELYKEIDGVATTRY SVAGLSPYSYDFR VAVNNIGR GPPSEPVL TQTSEQAPSSAPRDVQARMLS
STTILVQWKEPEEPNGQIQGYRYYTMDPTQHVNMMKHNVADSQIT TIGNLVQKTYSVKVLAF T SIGD
GPLSSDIQVITQTGVPGQPLNFKAEPESETSILLSWTPPRS DTIANYELVYKDGEHGEEQRITIEPGTSY
RLQGLKPNLSYFRLAARSPQGLGASTAEISARTMQSMFAKNFHVKA VMKTSVLLSWEIPENYNSAMPFK
ILYDDGKMVEEVDGRATQKLI VNLKPEKSYSFVLTNRGNSAGGLQHRVTAKTAPDVLRTKPAF IGKTNLD
GMITVQLPEVPANENIKGYYIIIVPLKKS RGF IKPWESPDEME LDELLEISRKRRSIRYGREVELKPY
IAAHFDVLPTEFTLGD DKHYGGFTNKQLQSGQEVVFFVLAVMEHAESKMYATSPYSDPVVSM DLPQIPIT
DEEEGLI WVVG PVLAVVFIICIVIAILLYKRKRAESDSRKSSIPNNKEIPSHHPTDPVELRRLNFQTPGS
DDSGYPGNLHSSSMASHPP IPIELADHIERLKANDNLKFSQYYESIDPGQOFTWEHSNLEVNKPKNRYA
NVIAYDHSRVLLSAIEGIPGSDYVNANYIDGYRKQNAIATQGS LPETFGDFWRMIWEQRSATVMMTKL
EERSRVKCDQYWP SRGTE THGLVQVTL LDTVELATYCVRTFALYKNGSSEKREVRQFQFTAWPDHGVP EH
PTPFLAFLRRVKT CNPPDAGPMVVHCSAGVGR TGCFIVIDAMLERIKHEKTVDIYGHV TLMRAQRNYMVQ
TEDQYIF IHDALLEAVTCGNTEVPARNL YAYIQKLQIETGENVTGMELEFKRLASKAHTSRFISANLP
CNKFKNRLVNI MPYESTRVCLQPIRGVEGSDYINASFIDGYRQQKAYIATQGLAETTEDFWRMLWEHNS
TIVVMLTKLREMGREKCHQY WPAERSARYQYFVVDPM AEYNMPQYILREFKVTDARDGQSRTV RQFQFTD
WPEQGVPKSGEGFIDF IGQVHKTEQFGQDGPISVHCSAGVGR TG VFITLSIVLERMRYEGVVDIFQTVK
MLRTQRPAMVQTEDQYQFSYRAALEYLG SFDHYAT
  
```

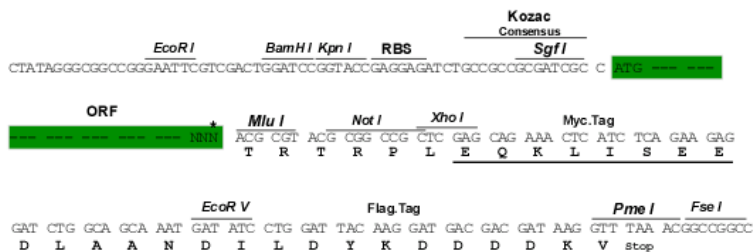
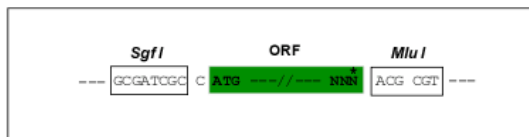
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

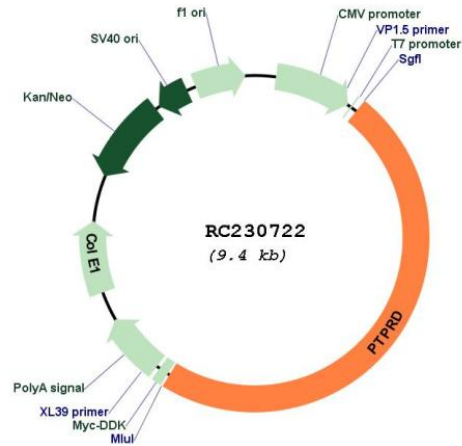
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001171025

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_001171025.2
RefSeq ORF:	4518 bp
Locus ID:	5789
UniProt ID:	P23468
Cytogenetics:	9p24.1-p23
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
MW:	169.9 kDa
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>