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Product datasheet for SC311131

PTPRD (NM_001040712) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: PTPRD (NM_001040712) Human Untagged Clone

Tag: Tag Free

Symbol: PTPRD

Synonyms: HPTP; HPTPD; HPTPDELTA; PTPD; R-PTP-delta; RPTPDELTA

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001040712, the custom clone sequence may differ by one or more nucleotides

ATGGTGCACGTAGCCAGGCTGCTGCTGCTCCTCACTTTCTTCCTCCGCACGGATGCT
GAGACACCTCCAAGGTTTACACGAACACCCGTTGATCAGACAGGGGTCTCTGGCGGAGTT
GCCTCTTTCATCTGCCAAGCTACGGGAGACCCAAGACCTAAAATTGTCTGGAACAAAAAA
GGAAAGAAAGTCAGCAATCAGAGATTTGAGGTAATAGAGTTTGACGATGGGTCTGGATCA
GTTCTCAGAATACAACCCTTACGGACTCCGAGGGATGAGGCCATTTATGAATGTGTGGCC
TCAAATAATGTGGGAGAAATAAGTGTATCCACCAGACTCACAGTTTTGCGGGAAGATCAA
ATTCCCAGGGGCTTCCCTACCATTGACATGGGCCCACAGTTGAAGGTGGTTGAGCGTACT
CGCACGGCCACCATGCTTTGTGCAGCCAGTGGTAATCCGGATCCAGAAATCACTTGGTTT
AAAGATTTCTTACCTGTGGACACAAGCAACAACAATGGTCGTATTAAGCAGTTACGATCA
GGTGGTACACCAATAAGAGGAGCCCTTCAGATTGAGCAGAGTGAAGAGTCTGACCAAGGA
AAATATGAGTGTGTTGCCACCAACAGCGCGGGCACTCGCTATTCCGCTCCTGCCAATTTA
TATGTCAGAGAGCTGCGAGAAGTTCGCCGTGTCCCACCAAGATTCTCTATCCCACCCACT
AATCATGAAATCATGCCAGGCGGAAGCGTTAATATCACCTGTGTGGCCGTGGGGTCACCA
ATGCCTTATGTAAAGTGGATGTTGGGGGCAGAAGATCTGACACCTGAAGATGATATGCCA
ATAGGAAGAAATGTGCTAGAACTGAATGATGTAAGACAGTCAGCAAATTACACCTGTGTT
GCTATGTCAACACTGGGTGTCATTGAAGCAATAGCACAGATCACTGTCAAAGCCTTACCC
AAACCTCCAGGAACTCCTGTAGTGACCGAGAGCACAGCTACAAGCATCACACTGACGTGG
GACTCTGGGAACCCTGAGCCTGTTTCTTATTACATAATTCAGCATAAACCTAAAAACTCT
GAGGAACTTTACAAAGAAATTGATGGGGTGGCGACCACACGCTACAGTGTCGCTGGACTA
AGTCCCTACTCGGATTATGAATTCAGGGTTGTTGCTGTCAATAACATTGGGCGGGGGCCT
CCCAGCGAACCTGTGCTAACACAAACCTCAGAGCAAGCACCATCCAGTGCCCCGAGGGAT
GTCCAGGCACGAATGTTGAGTTCGACCACCATTTTGGTACAGTGGAAGGAACCTGAAGAG
CCAAATGGACAGATCCAAGGATATAGAGTTTATTATACAATGGATCCCACTCAACATGTC
AACAACTGGATGAAACACAATGTAGCTGACAGCCAAATCACTACTATTGGCAACTTAGTG
CCCCAGAAAACATATTCTGTCAAAGTCCTGGCTTTTACCTCAATTGGAGATGGTCCCCTT
TCAAGTGACATACAAGTCATCACTCAGACAGGAGTACCAGGGCAGCCACTAAACTTCAAA
GCAGAACCTGAGTCTGAAACAAGTATTTTGCTCTCTTGGACACCTCCACGTTCAGATACC
ATTGCCAACTATGAACTGGTCTACAAAGATGGGGAGCATGGAGAGGAGCAACGAATTACC
ATTGAGCCAGGGACATCATATAGGCTGCAAGGACTGAAACCAAACAGCTTATACTATTTC

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CGTCTGGCTGCACGCTCCCCTCAAGGCCTGGGTGCTTCTACTGCAGAAATATCAGCTAGA
ACCATGCAGTCAATGTTTGCAAAAAATTTTCATGTCAAAGCAGTAATGAAGACTTCCGTG
TTGCTGTCTTGGGAGATTCCAGAGAATTATAACTCCGCCATGCCTTTCAAAATTCTTTAT
GATGATGGGAAAATGGTAGAAGAAGTGGATGGCCGAGCCACACAGAAGTTAATTGTCAAC
CTGAAGCCTGAGAAATCATATTCATTTGTGCTGACAAATCGTGGAAACAGTGCTGGTGGG
CTGCAGCACAGGGTCACGGCAAAGACTGCACCAGATGTATTACGTACCAAGCCTGCCTTC
ATTGGGAAGACCAACTTGGATGGCATGATTACTGTGCAACTGCCTGAAGTACCTGCAAAT
GAGAATATAAAAGGTTACTACATAATAATTGTGCCTTTGAAGAAATCTCGCGGGAAATTT
ATCAAGCCATGGGAGAGTCCAGATGAAATGGAATTAGATGAGCTGCTTAAGGAGATATCT
AGGAAGCGCAGAAGCATCCGTTATGGGAGAGAAGTTGAATTAAAGCCATATATTGCCGCT
CACTTTGATGTCCTTCCCACTGAGTTCACCCTGGGGGATGACAAGCATTATGGTGGATTT
ACAAACAAGCAACTCCAAAGTGGTCAAGAATATGTCTTCTTTGTGTTAGCAGTAATGGAA
CATGCAGAGTCTAAGATGTATGCAACCAGCCCTTACTCCGACCCCGTGGTGTCAATGGAT
CTGGATCCGCAGCCAATCACGGATGAAGAAGAAGGCTTGATCTGGGTTGTAGGTCCTGTC
CTTGCAGTGGTCTTTATCATCTGCATTGTCATTGCTATTCTTCTTTATAAAAGTAAACCC
GACAGGAAGAGGGCAGAGTCCGACTCTAGAAAAAGCAGCATACCGAACAATAAGGAGATC
CCTTCACACCACCCAACAGACCCTGTAGAACTGAGGCGCCTTAACTTTCAAACACCGGGT
ATGGCTAGCCATCCTCCAATACCCATCTTGGAACTTGCAGACCACATTGAAAGATTGAAA
GCAAATGACAACTTGAAGTTTTCCCAGGAATATGAGTCAATTGACCCTGGCCAGCAGTTC
ACTTGGGAACATTCAAACTTGGAAGTAAACAAACCAAAGAATAGATACGCGAATGTAATC
GCATATGATCATTCCCGGGTTCTCCTATCAGCTATAGAAGGGATCCCAGGAAGTGACTAT
GTGAATGCCAACTACATAGATGGGTATAGGAAGCAAAATGCCTATATTGCAACACAGGGA
TCTCTCCCCGAAACATTTGGGGACTTTTGGAGAATGATATGGGAACAACGGAGTGCCACA
GTTGTCATGATGACAAAACTAGAAGAAAGATCAAGGGTGAAGTGTGACCAGTATTGGCCT
AGCAGAGGCACAGAAACCCACGGACTCGTTCAAGTAACGCTGCTTGATACTGTGGAGCTG
GCCACATATTGTGTTCGAACATTTGCACTTTACAAGAATGGTTCAAGTGAGAAGAGAGAA
GTGAGACAATTCCAGTTCACCGCCTGGCCTGATCATGGTGTTCCAGAACACCCTACACCT
TTTCTAGCTTTCTTACGTAGAGTCAAAACCTGTAACCCTCCCGATGCTGGTCCGATGGTT
GTGCACTGCAGTGCGGGAGTTGGCCGGACTGGTTGCTTCATCGTCATAGATGCCATGTTA
GAAAGAATAAAGCATGAAAAAACTGTAGATATTTATGGCCATGTAACTTTAATGAGAGCC
CAGAGGAACTATATGGTTCAAACAGAAGACCAATACATCTTTATCCATGATGCACTGTTA
GAAGCAGTGACTTGTGGAAATACCGAAGTGCCAGCTAGAAACTTGTATGCCTACATTCAG
AAGCTGACACAAATAGAAACGGGAGAGAATGTCACAGGAATGGAGCTCGAATTTAAGCGT
CTAGCCAGCTCAAAAGCTCACACCTCAAGGTTTATCAGTGCCAATCTTCCATGTAATAAA
TTCAAAAATCGCCTTGTTAATATTATGCCATATGAATCCACAAGGGTATGCCTGCAGCCT
ATCCGTGGAGTAGAAGGATCTGATTACATCAATGCCAGTTTTATTGATGGATACAGACAA
CAGAAAGCCTACATCGCTACCCAGGGGCCCTTGGCAGAGACCACTGAAGACTTCTGGCGG
ATGCTCTGGGAACACAATTCCACCATAGTTGTGATGCTCACCAAGCTGCGTGAAATGGGC
AGAGAGAAATGTCACCAATACTGGCCAGCAGAACGGTCTGCAAGATACCAGTACTTTGTT
GTAGATCCCATGGCTGAGTACAACATGCCACAGTATATCCTAAGGGAATTCAAGGTCACA
GATGCCAGGGACGGCCAGTCCCGAACAGTAAGGCAGTTCCAGTTCACTGACTGGCCAGAG
CAAGGAGTGCCAAAGTCCGGAGAAGGATTTATTGACTTCATCGGCCAAGTCCATAAAACA
AAAGAACAGTTTGGCCAAGATGGACCCATTTCAGTCCATTGCAGCGCGGGCGTTGGAAGA
ACTGGAGTCTTCATAACGCTAAGCATTGTTTTGGAAAGAATGAGATATGAAGGAGTTGTA
GATATCTTCCAGACTGTCAAAATGTTAAGAACACAACGACCAGCTATGGTACAGACAGAG
GATCAATATCAGTTTTCCTATCGTGCCGCACTAGAGTACCTGGGCAGCTTTGACCACTAT
GCAACGTAG

Restriction Sites: Please inquire

ACCN: NM_001040712

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001040712.1, NP_001035802.1
RefSeq Size:	8848 bp
RefSeq ORF:	4509 bp
Locus ID:	5789
Cytogenetics:	9p24.1-p23
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
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 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] Transcript Variant: This variant (5) has multiple differences in the coding region, compared to variant 1, resulting in an isoform (5) that is shorter than isoform 1. The 5' UTR of this variant is incomplete because no 5' complete transcripts representing this variant exist, and there are alternate splicing choices in the upstream region. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.