

## Product datasheet for SC124818

### PTPRD (NM\_130392) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PTPRD (NM_130392) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPRD
Synonyms:	HPTP; HPTPD; HPTPDELTA; PTPD; R-PTP-delta; RPTPDELTA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC124818 sequence for NM_130392 edited (data generated by NextGen Sequencing)

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ATGGTGACGTAGCCAGGCTGCTGCTGCTCCTCATTCTTCTCCGCACGGATGCT
GAGACACCTCCAAGGTTTACACGAACACCCGTTGATCAGACAGGGTCTCTGGCGGAGTT
GCCTCTTTCATCTGCCAAGCTACGGGAGACCCAAGACCTAAAATTGTCTGGAACAAAAA
GGAAAGAAAGTCAGCAATCAGAGATTTGAGGTAATAGAGTTTGACGATGGGTCTGGATCA
GTTCTCAGAATACAACCTTACGGACTCCGAGGGATGAGGCCATTTATGAATGTGTGGCC
TCAAATAATGTGGGAGAAATAAGTGTATCCACCAGACTCACAGTTTTGCGGGAAGATCAA
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GGTCCCTTTCAAGTGACATACAAGTCATCACTCAGACAGGAGTACCAGGGCAGCCACTA  
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 TTCAAGGTCACAGATGCCAGGGACGGCCAGTCCCGAACAGTAAGGCAGTTCAGTTCCT  
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 GAAGGAGTTGTAGATATCTTCCAGACTGTCAAATGTTAAGAACAACAGCAGCTATG  
 GTACAGACAGAGGATCAATATCAGTTTTCTATCGTGCCGCACTAGAGTACCTGGGCAGC  
 TTTGACCACTATGCAACGTAG

Clone variation with respect to NM\_130392.3  
 2643 c=>n;2644 a=>n;2645 g=>n;3036 g=>c

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_130392 unedited  
 NTAAGTCAGGATTTGTAAACGACTCACTATAGGGCGGCCGCCGAATCCCACCAGGAAAA  
 GCAAGCAGTTCCTGNCCCTNAGATTGATGGGGAGGGGTCTNACTAACACATGTTGGCA  
 CCGAGGGAAGCGATGGGCTTCCGCTCCAGGTTTCTGTGCTGAGACCACAGCAGAATGTGC  
 CTTGGGCAAAGGCTTGGGCTCCTTGATCTTCTGGGGACTTCAAAAATCTGGTCTCAGGGG  
 GGGGAGGGGGGTGTTCCAATTCCTAACCTGTGAGCTTACCATGATGGGGCCTGTGCAT  
 TAACTGAACAACGTGGTTTTGAACTTCTTGAGGCCAGGGACTGTGTCTGAAAACACCGA  
 CCGGGGTAACCAAGGGAGACGTCTGGTGAACACCCGTGGGATCTAAAGAACAAGCTCT  
 GAAAGTGTCCAGCTGAAATTTCAAATCCGACAGACTCGCTGCGGCTCCGGAGGCANTGA  
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 TGCTGTGCTCCTCACTTTCTTCTCCGGACGATGCTGAGACACCTCCAAGGTTACACCA  
 ACACCCGTTNATCANACAGGGGTCTCTGGCGGAGTTGCCTTTTTCATCTGCCAAGCGTAC  
 GGAGACCAAGACCTAAAATTGTGCTGGAGCAAAAAAGAGAGAAAAGTCGCAATCAGAG  
 ATTTGAGGGAATAAAGTTNACCATGGGGCCTGGATCACTTCTCAAAAATACAACCCTTAC  
 CGACTCTAGGGGAGGAGGCCATTTATGAAAGTGGGGCCTCAAATATGTGGGAGAAATAA  
 ATGTATCCACCACACTCACCGTTTTTCGCGGAAATCAAAATCCCAGGGGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_130392 unedited  
 TTCAGCTATGNNACCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTGTG  
 GTAAACAGATAATGCTTTAATAGAAAAGTAACAGATACGAACAGTGAATGGAAATACGAAC  
 CAAAAGCTAAAAAGAAATGCTATTAATAAGGCATCAATTATAAGGCACTCTAAATGCAA  
 AACTAAAACAAAACGAAACAAAGTACAGCACTCCCAGGAATGCTGTATGCCACAAAAT  
 GTTTCTGACTGAACAGAGTAACATGAATTTGGCTTTGCCCTGTACGTATCATAAATGC  
 AAATTTATAGCACATACTATAGACAATATACGATTGAATACACTTTTTTTTAAACAAC  
 GATAGCCTGATTATTACACCTTCTCCCCTCTAAAGGAAATCCCTGGACCTTTCCCAT  
 GCCCCCTTTTACCTTTAAAAAAAATTTATGGCCAAAAGGTAATAAATTTAACTTT  
 GGTGAAACCTGTGTTAAAAAAAATTTGGAATAAATTTGGAAGGGGGG  
 GAAATTATGGGGAAAAAAGGGGGGGGGGTTCCACAAAAACCGGGGGGGGGTTC  
 CTTTTTCTTTTAAAAAACCCCTGTTGAAAAAATAAAAAAGGGGGGGGGGG  
 GGGTGTCCANGTTTTTTTTTTCTTTAAAAAAAATTTGTTGAAAAAACCCGC  
 GGNNNNCTTTTTTTTTTTTTTTGGGGGGGGCCCCCTTTTTTAATTA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_130392

**Insert Size:**

8000 bp

**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).

**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\\_130392.1](#), [NP\\_569076.1](#)

**RefSeq Size:** 6236 bp

**RefSeq ORF:** 5712 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:** 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 (3) has multiple differences in the coding region, compared to variant 1, resulting in an isoform (3) 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.