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CN: techsupport@origene.cn

Product datasheet for SC109675

PTPRD (NM_130393) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPRD (NM_130393) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPRD
Synonyms:	HPTP; HPTPD; HPTPDELTA; PTPD; R-PTP-delta; RPTPDELTA
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF sequence for NM_130393 edited
GGTCTGAAAACACCGACGGTGGCTAACTCAAGGGAGACGTCTGGTGAACACCCGTGGGAT
CTAAAGAACAAGCTCTGAAAGTGTTCCAGCTGAAATTTCAGATCGGACAGACTCGCTGCG
GCTCCGGAGGCAGTGATTCCAAGCTGCTCGCGCACGCTGCTGCCAAGCTGCAGGATGGTG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_130393 unedited
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GCGCACGCTGCTGCCAAGCTGCAGGATGGTGCACGTAGCCAGGCTGCTGCTGCTGCTCCT
CACTTTCTTCCTCCGCACGGATGCTGAGACACCTCCAAGGTTTACACGAACACCCGTTGA
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CTTCAGATTGANCAGAGTGAAGAGTCTGACAGGAAAATATGAGTGTGGTTGCCACAACAG
CGCGGCACTCGCTATTCCGCTCTGGCAATTATATGTCAGAGACTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_130393 unedited
AGCTTGAACCGCGGCCGCATCTANAGTCGGTTTTTTTTTTTTTTTTTTAAAATTCACTT
TATCGAATGATACATTTTGTTAAAAAAAATTTACACAGTTAGAAATGAAGCACAGGTCAG
CAGTATCTTTACAATACTAAAAAACTAAATCAAGGACTTTCTTTTTAAACATTCCCTCCC
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TCCGTTTCATTGTGAGAAGCCACACCAGCACATATCTTGTGCTGAACTGCAGCATTCTGG
CAATTTCTCCTTGCACCTTTCAAGCAATCCTGAATAAGATGGTGGTTCTTTGCTGCGATT
TCTTCTTCCCTTGATTTTGAATCCTTGAGGTATCTGTAAATAAAATCCTTCAGATGCCTC
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CATCTCAAAGTTAACAAGGACTTCTCAAGTGCCCCTGCTGGCTCACAAGACACTCACGGC
CATTGAAGGGCCCGGCGCAAACTCCAAACGGCAAGGGCCCCCACACGCCACCCGGGCAAA
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GTGGCCCGCGCCACTTCACATTGTTCCCAGCGCAAAAATTGTGTCCTGCGTTACCGCCGT
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GAACAGGGCCCCACTCCACCCTCCTCCCTCCCCCTCGCGGCTACTTCGCAACCCACACTC
TTCGCCCCCGTTATTTCCCACCCACAGT

Restriction Sites: NotI-NotI

ACCN: NM_130393

Insert Size: 5270 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_130393.1, NP_569077.1
RefSeq Size:	5030 bp
RefSeq ORF:	4506 bp
Locus ID:	5789
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 (4) has multiple differences in the coding region, compared to variant 1, resulting in an isoform (4) 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.