

Product datasheet for SC309020

PTPRD (NM_002839) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPRD (NM_002839) 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 sequence for NM_002839 edited
 ATGGTGCACGTAGCCAGGCTGCTGCTCCTCACTTTCTTCTCCGCACGGATGCT
 GAGACACCTCCAAGTTTACACGAACACCCGTTGATCAGACAGGGTCTCTGGCGGAGTT
 GCCTCTTTCATCTGCCAAGCTACGGGAGACCCAAGACCTAAAATTGTCTGGAACAAAAA
 GGAAAGAAAGTCAGCAATCAGAGATTTGAGGTAATAGAGTTTGACGATGGTCTGGATCA
 GTTCTCAGAATACAACCTTACGGACTCCGAGGGATGAGGCCATTTATGAATGTGTGGCC
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 GAATCTATTGGTGTACACCAATAAGAGGAGCCCTTCAAGATTGAGCAGAGTGAAGAGTCT
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AACTTCAAAGCAGAACCTGAGTCTGAAACAAGTATTTTGCTCTCTTGGACACCTCCACGT
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ACACAACGACCAGCTATGGTACAGACAGAGGATCAATATCAGTTTTCTATCGTGCCGCA
CTAGAGTACCTGGGCAGCTTTGACCACTATGCAACGTAG
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_002839
- Insert Size:** 7000 bp
- OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
- 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 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_002839.1](#), [NP_002830.1](#)

RefSeq Size: 6263 bp

RefSeq ORF: 5739 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 (1) represents the longest transcript and encodes the longest isoform (1). 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.