

Product datasheet for RC213944

PTPRD (NM_130392) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPRD (NM_130392) 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:	>RC213944 representing NM_130392 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGACAGTAGCCAGGCTGCTGCTGCTCCTCACTTTCTTCTCCGCACGGATGCTGAGACACCTC
CAAGGTTTACACGAACACCCGTTGATCAGACAGGGGTCTCTGGCGGAGTTGCCTCTTTCATCTGCCAAGC
TACGGGAGACCAAGACCTAAAATTGTCTGGAACAAAAAGGAAAGAAAGTCAGCAATCAGAGATTTGAG
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GAGTACCAGGGCAGCCACTAAACTTCAAAGCAGAACCTGAGTCTGAAACAAGTATTTTGCTCTCTTGAC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC213944 representing NM_130392
 Red=Cloning site Green=Tags(s)

MVHVARLLLLLLTFFLRDTAETPPRFTRTPVDQTVSGGVASFICQATGDPRPKI VWNKKGKKVSNQRFE
 VIEFDDGSGSVLRIQPLRTPRDEAIYECVASNNVGEISVSTRLTVLREDQIPRGFPTIDMGPQLKVVERT
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 PRDVQARMLSSTTILVQWKEPEEPNGQIQGYRYYTMDPTQHVNNWMKHNVADSQITITGNLVPQKTYSV
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 RITIEPGTSYRLQGLKPNLSYFRLAARSPQGLGASTAEISARTMQSMFAKNFHVKAVMKTSVLLSWEIP
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 YGREVELKPYIAAHFDVLPTEFTLGD DKHYGGFTNKQLQSGQYVFFVLAVMEHAESKMYATSPYSDPVV
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 DPVELRRLNFQTPGMASHPPPILELADHIERLKANDNLKFSQEYESIDPGQQFTWEHSNLEVNPKPNRY
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 HPTPFLAFLRRVKTCNPPDAGPMVVHCSAGVGR TGCFIVIDAMLERIKHEKTVDIYGHVTLMRAQRNYMV
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 PCNKFKNRLVNIMPYESTRVCLQPIRGVEGSDYINASFIDGYRQQKAYIATQGLAETTEDFWRMLWEHN
 STIVVMLTKLREMGREKCHQYWP AERSARYQYFVVDPM AEYNMPQYILREFKVT DARDGQSRTVRQFQFT
 DWPEQGVPKSGEGFIDFIGVHKTKEQFGQDGPISVHCSAGVGR TGVFITLSIVLERMRMYEGVVDIFQTV
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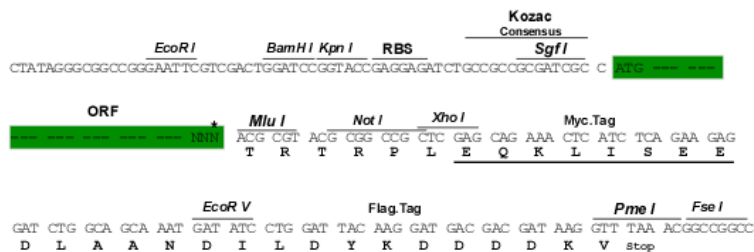
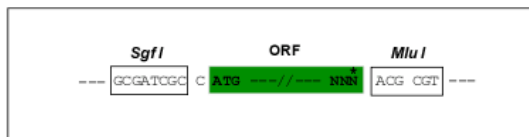
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

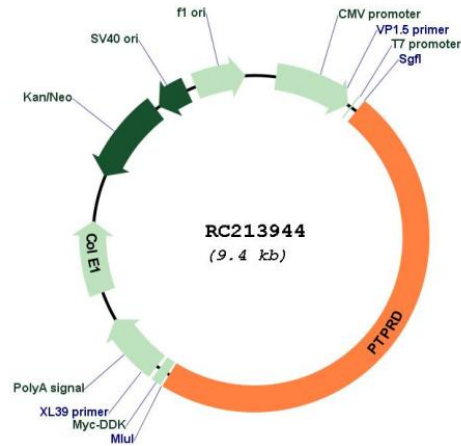
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_130392

ORF Size: 4518 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_130392.3 , NP_569076.2
RefSeq Size:	8269 bp
RefSeq ORF:	4521 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
MW:	169.7 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>