

Product datasheet for RC221259

PTPRU (NM_005704) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPRU (NM_005704) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTPRU
Synonyms:	FMI; hPTP-J; PCP-2; PTP; PTP-J; PTP-PI; PTP-RO; PTPPSI; PTPRO; PTPU2; R-PTP-PSI; R-PTP-U
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221259 representing NM_005704 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RC221259 representing NM_005704
 Red=Cloning site Green=Tags(s)

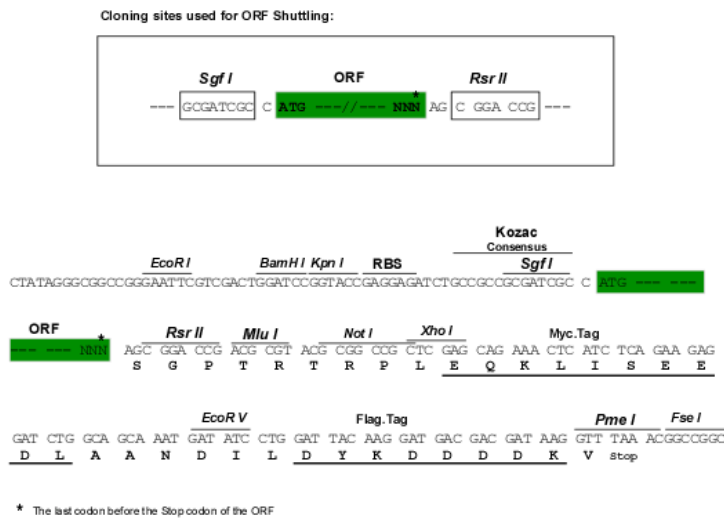
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SGP TRTRRLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8008_d03.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:

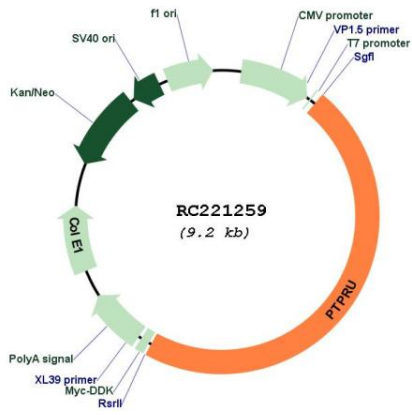


ACCN: NM_005704

ORF Size: 4338 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_005704.5
RefSeq Size:	5637 bp
RefSeq ORF:	4341 bp
Locus ID:	10076
UniProt ID:	Q92729
Cytogenetics:	1p35.3
Protein Families:	Transmembrane
MW:	162.42 kDa
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 possesses an extracellular region, a single transmembrane region, and two tandem intracellular catalytic domains, and thus represents a receptor-type PTP. The extracellular region contains a meprin-A5 antigen-PTP (MAM) domain, Ig-like and fibronectin type III-like repeats. This PTP was thought to play roles in cell-cell recognition and adhesion. Studies of the similar gene in mice suggested the role of this PTP in early neural development. The expression of this gene was reported to be regulated by phorbol myristate acetate (PMA) or calcium ionophore in Jurkat T lymphoma cells. Alternatively spliced transcript variants have been reported. [provided by RefSeq, Aug 2010]

Product images:



Circular map for RC221259