

Product datasheet for **RC220032L4V**

PTPD1 (PTPN21) (NM_007039) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	PTPD1 (PTPN21) (NM_007039) Human Tagged ORF Clone Lentiviral Particle
Symbol:	PTPD1
Synonyms:	PTPD1; PTPRL10
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_007039
ORF Size:	3522 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC220032).
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.
RefSeq:	NM_007039.2
RefSeq Size:	4234 bp
RefSeq ORF:	3525 bp
Locus ID:	11099
UniProt ID:	Q16825
Cytogenetics:	14q31.3
Domains:	Y_phosphatase, B41, PTPc_motif
Protein Families:	Druggable Genome, Phosphatase



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MW: 133.1 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 contains an N-terminal domain, similar to cytoskeletal-associated proteins including band 4.1, ezrin, merlin, and radixin. This PTP was shown to specially interact with BMX/ETK, a member of Tec tyrosine kinase family characterized by a multimodular structures including PH, SH3, and SH2 domains. The interaction of this PTP with BMX kinase was found to increase the activation of STAT3, but not STAT2 kinase. Studies of the similar gene in mice suggested the possible roles of this PTP in liver regeneration and spermatogenesis. [provided by RefSeq, Jul 2008]