

## Product datasheet for **RC222707L2V**

### DEP1 (PTPRJ) (NM\_002843) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	DEP1 (PTPRJ) (NM_002843) Human Tagged ORF Clone Lentiviral Particle
Symbol:	DEP1
Synonyms:	CD148; DEP1; HPTPeta; R-PTP-ETA; SCC1
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_002843
ORF Size:	4011 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC222707).
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. <a href="#">More info</a>
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:	<a href="#">NM_002843.2</a> , <a href="#">NP_002834.2</a>
RefSeq Size:	5119 bp
RefSeq ORF:	4014 bp
Locus ID:	5795
UniProt ID:	<a href="#">Q12913</a>
Cytogenetics:	11p11.2
Domains:	Y_phosphatase, PTPc_motif, FN3
Protein Families:	Druggable Genome, Phosphatase, Transmembrane


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**Protein Pathways:** Adherens junction

**MW:** 145.9 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 containing five fibronectin type III repeats, a single transmembrane region, and a single intracytoplasmic catalytic domain, and thus represents a receptor-type PTP. This protein is present in all hematopoietic lineages, and was shown to negatively regulate T cell receptor signaling possibly through interfering with the phosphorylation of Phospholipase C Gamma 1 and Linker for Activation of T Cells. This protein can also dephosphorylate the PDGF beta receptor, and may be involved in UV-induced signal transduction. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]