

## Product datasheet for **TP322707L**

### DEP1 (PTPRJ) (NM\_002843) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein tyrosine phosphatase, receptor type, J (PTPRJ), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>Peptide sequence encoded by RC222707 Blue=ORF Red=Cloning site Green=Tag(s)

MKPAAREARLPPRSPGLRWALPLLLLLLRLGQILCAGGTPSPIPDPSVATVATGENGITQISSTAESFH  
KQNGTGTPQVETNTSEDESSGANDSLRTPEQGSNGTDGASQKTPSSTGSPVFDIKAVSISPTNVILT  
WKSNDTAASEYKYVVKHKMENEKTTIVVHQWCNITGLRPATSYVFSITPGIGNETWGDPRVIKVITEP  
IPVSDLRVALTGVRKAALSWSNGNGTASCRVLESIGSHEELTQDSRLQVNISGLKPGVQYNINPYLLQ  
SNKTKGDPLGTEGGLDASNTERSRAGSPTAPVHDESLVGPVDPSSGQQRDTEVLLVGLPGTRYNATV  
YSQAANGTEGQPQAIIEFRNTAIQVFDVTAVNISATSLTLIWKVSDNESSNYTYKIHVAGETDSSNLNV  
SEPRAVIPGLRSSTFYNTVCPVLGDIETGPGFLQVHTPPVPVSDFRVTWVSTTEIGLAWSSHDAESFQ  
MHITQEGAGNSRVEITTNQSIIGGLFPGTKYCFEIVPKGPNGTGASRTVCNRTVPSAVFDIHVVYVT  
TTEMWLDWKSPDGASEYVYHLVIESKHGSNHTSTYDKAITLQGLIPGTYLITISPEVDHWWGDPNSTA  
QYTRPSNVSNDVSTNTTAATLSWQNFDDASPTYSYCLLIEKAGNSSNATQVVDIGITDATVTEIPG  
SSYTVEIFAQVGDGKISLEPGRKSFCTDPASMASFDCEVVPKEPALVLKWTCPGANAGFELEVSSGAW  
NNATHLESCSENGTEYRTEVYLNFSYSINISITTVSCGKMAAPTRNTCTTGITDPPPPDGSPNITSV  
SHNSVKVKGFEASHGPIKAYAVILTTGEAGHPSADVLKYTYDDFKKGASDTYVYLRTEEKGRSQS  
LSEVLKYEIDVGNSTTLGYNKGLEPLGSYRACVAGFTNITFHPQNKGLIDGAESYVSFSRYSDAVSL  
PQDPGVICGAVFGCIFGALVIVTVGGFIFWRKKRDKANNNEVSFSQIKPKKSKLIRVENFEAYFKKQQA  
DSNCGFAEEYEDLKLVGISQPKYAAELAENRGKNRYNNVLPYDISRVKLSVQTHSTDDYINANYMPGYH  
SKKDFIATQGPLPNTLKDFWRMVWEKNVYAIIMLTKCVEQGRTKCEEYWPSKQAQDYGDITVAMTSEIV  
LPEWTIRDFTVKNIQTSESHPLRQFHFTSWPDHGVPTDLDLLINFRYLVRDYMKSPPESPILVHCSAG  
VGRGTGFIAIDRLIYQIENENTVDVYGVYDLRMRPLMVQTEDQYVFLNQCVLDIRSQKDSKVDLIY  
QNTTAMTIYENLAPVTTFGKTNGYIA  
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

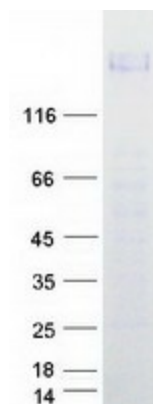
Recombinant protein using RC222707 also available, [TP322707M](#)

Tag: C-Myc/DDK



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<b>Predicted MW:</b>	142 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_002834</a>
<b>Locus ID:</b>	5795
<b>UniProt ID:</b>	<a href="#">Q12913</a> , <a href="#">Q9NPR5</a>
<b>RefSeq Size:</b>	5119
<b>Cytogenetics:</b>	11p11.2
<b>RefSeq ORF:</b>	4011
<b>Synonyms:</b>	CD148; DEP1; HPTPeta; R-PTP-ETA; SCC1
<b>Summary:</b>	<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 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]</p>
<b>Protein Families:</b>	Druggable Genome, Phosphatase, Transmembrane
<b>Protein Pathways:</b>	Adherens junction

**Product images:**

Coomassie blue staining of purified PTPRJ protein (Cat# [TP322707]). The protein was produced from HEK293T cells transfected with PTPRJ cDNA clone (Cat# [RC222707]) using MegaTran 2.0 (Cat# [TT210002]).