

Product datasheet for **RG222707**

DEP1 (PTPRJ) (NM_002843) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DEP1 (PTPRJ) (NM_002843) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTPRJ
Synonyms:	CD148; DEP1; HPTPeta; R-PTP-ETA; SCC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG222707 representing NM_002843
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGCCGGCGCGCGGGAGGCGGGCTGCCTCCGCGCTCGCCCGGGCTGCGCTGGGCGTGCCGCTGC
 TGCTGCTGCTGCTGCGCCTGGGCCAGATCCTGTGCGCAGGTGGCACCCCTAGTCCAATTCCTGACCCCTC
 AGTAGCAACTGTTGCCACAGGGAAAAATGGCATAACGCAGATCAGCAGTACAGCAGAATCCTTTATAAAA
 CAGAATGGAACCTGGAACACCTCAGGTGGAACAACACCAGTGAGGATGGTAAAAGCTCTGGAGCCAACG
 ATAGTTTAAAGAACACCTGAACAAGGATCTAATGGGACTGATGGGCATCTCAAAAACTCCAGTAGCAC
 TGGGCCAGTCTGTGTTTGACATTAAGCTGTTCCATCAGTCCAACCAATGTGATCTTAACTTGAAAA
 AGTAATGACACAGCTGCTTCTGAGTACAAGTATGTAGTAAAGCATAAGATGAAAAATGAGAAGACAATTA
 CTGTTGTGCATCAACCATGGTGAACATCACAGGCTTACGTCCAGCGACTTCATATGTATTCTCCATCAC
 TCCAGGAATAGGCAATGAGACTTGGGGAGATCCCAGAGTCATAAAAGTCATCACAGAGCCGATCCCAGTT
 TCTGATCTCCGTGTTGCCCTCACGGGTGTGAGGAAGGCTGCTCTCTCCTGGAGCAATGGCAATGGCACCC
 CCTCTGCCGGTCTTCTTGAAGCATTGGAAGCCATGAGGAGTTGACTCAAGACTCAAGACTTCAAGT
 CAATATCTCGGGCCTGAAGCCAGGGGTTCAATACAACATCAACCCGTATCTTCTACAATCAATAAGACA
 AAGGGAGACCCCTTGGGCACAGAAGGTGGCTTGGATGCCAGCAATACAGAGAGAAGCCGGGCAGGGAGCC
 CCACCGCCCTGTGCATGATGAGTCCCTCGTGGGACCTGTGGACCCATCTCCGGCCAGCAGTCCCGAGA
 CACGGAAGTCTGCTTGTGCGGTAGAGCCTGGCACCCGATAACAATGCCACCGTTTATCCCAAGCAGCG
 AATGGCACAGAAGGACAGCCCCAGGCCATAGAGTTTCAAGACAAATGCTATTCAGGTTTTTGACGTACCCG
 CTGTGAACATCAGTCCACAAGCCTGACCCTGATCTGGAAGCTCAGCGATAACGAGTCGCATCTAACTA
 TACCTACAAGATACATGTGGCGGGGAGACAGATTCTTCCAATCTCAACGTCAGTGAGCCTCGCGCTGTC
 ATCCCCGACTCCGCTCCAGCACCTTCTACAACATCACAGTGTGCTCCTGTCTAGGTGACATCGAGGGCA
 CGCCGGGCTTCTCCAAGTGACACACCCCTGTTCCAGTTTCTGACTTCCGAGTGACAGTGGTCAGCAC
 GACGGAGATCGGCTTAGCATGGAGCAGCCATGATGCAGAATCATTTAGATGCATATCACACAGGAGGGA
 GCTGGCAATTCTCGGTTAGAAATAACCACCAACCAAGTATTATCATTGGTGGCTTGTCCCTGGAACCA
 AGTATTGCTTTGAAATAGTTCCAAAAGGACCAATGGGACTGAAGGGGCATCTCGGACAGTTTGAATAG
 AACTGGTAAGCAATAGGCTTTTCTGTTAAACCATCATGTTTCTTAAAGGAAATCAGTATAATTAATAAA
 CATAATGTTTCAAAAAAAAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGGTGCATAGCTGTT
 TCCTGAACAGATCCCGGTGGCATCCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG222707 representing NM_002843
 Red=Cloning site Green=Tags(s)

MKPAAREARLPPRSPGLRWALPLLLLLLRLQILCAGGTPSPIPDPSVATVATGENGITQISSTAESFHK
 QNGTGTPQVETNTSEDGESSGANDSLRTPEQSNGTDGASQKTPSSTGPSVFDIKAVSISPTNVILTWK
 SNDTAASEYKYVVKHKMENEKTIIVVHQPCNITGLRPATSYVFSITPGIGNETWGDPRVIVKITEPIPV
 SDLRVALTGVKRAALSWNSNGTASCRVLLLESIGSHEELTQDSRLQVNIISGLKPGVQYININPYLLQSNKT
 KGDPLGTEGLDASNTSRAGSPTAPVHDESLVGPVDPSSGQQSRDTEVLLVGLPEGTRYNATVYSQAA
 NGTEGQPQAIIEFRNIAIQVFDVAVNISATSLTLIWKVSDNESSNYTYKIHVAGETDSSNLNVSEPRAV
 IPGLRSSTFYNITVCPVLGDIETPGFLQVHTPPVPVSDFRVTVVSTTEIGLAWSSHDAESFQMHIQTQEG
 AGNSRVEITTNQSIIGLFPGTKYCFEIVPKGPNGTEGASRTVCNRTGKQIGFSVKPSCFLKEISINK
 HNVSKKKKKKKNSTLDCGRGHSCFLNRSRVASL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_002843.2, NP_002834.2</p>
RefSeq Size:	<p>5119 bp</p>
RefSeq ORF:	<p>4014 bp</p>
Locus ID:	<p>5795</p>
UniProt ID:	<p>Q12913</p>
Cytogenetics:	<p>11p11.2</p>
Domains:	<p>Y_phosphatase, PTPc_motif, FN3</p>
Protein Families:	<p>Druggable Genome, Phosphatase, Transmembrane</p>
Protein Pathways:	<p>Adherens junction</p>

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]