

Product datasheet for **SC128010**

DEP1 (PTPRJ) (NM_002843) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DEP1 (PTPRJ) (NM_002843) Human Untagged Clone
Tag:	Tag Free
Symbol:	DEP1
Synonyms:	CD148; DEP1; HPTPeta; R-PTP-ETA; SCC1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_002843 edited
GGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCATTTAGGTGACTAT
AGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAATTCGGCACGAGGCGGAGGAGG
AGGCGAAGGAGACGGCAGGAGGCGGCGACGACGGTGCCCGGGCTCGGGCGCACGGCGGGG
CCCATTTCGCGCGTCCGGGGCACGTTCCAGGGCGCGGGGCATGAAGCCGGCGGGCGGG
GAGGCGGGCTGCCTCCGCGCTCGCCGGGCTGCGCTGGGCGCTGCCGCTGCTGCTGCTG
CTGCTGCGCCTGGGCCAGATCCTGTGCGCAGGTGGCACCCCTAGTCCAATTCCTGACCC
TCAGTAGCAACTGTTGCCACAGGGGAAAATGGCATAACGCAGATCAGCAGTACAGCAGAA
TCCTTTCATAAACAGAATGGAACGGAACACCTCAGGTGAAAACAAACACCAAGTGAAGAT
GGTGAAGCTCTGGAGCCAACGATAGTTTAAGAACACCTGAACAAGGATCTAATGGGACT
GATGGGGCATCTCAAAAACTCCAGTAGCACTGGGCCAGTCCTGTGTTTGACATTAA
GCTGTTTCCATCAGTCCAACCAATGTGATCTTAACTTGGAAAAGTATGACACAGCTGCT
TCTGAGTACAAGTATGTAGTAAAGCATAAGATGGAAAATGAGAAGACAATTACTGTTGTG
CATCAACCATGGTGAACATCACAGGCTTACGTCCAGCGACTTCATATGTATTCTCCATC
ACTCCAGGAATAGGCAATGAGACTTGGGGAGATCCCAGAGTCATAAAAGTCATCACAGAG
CCGATCCCAGTTTCTGATCTCCGTGTTGCCCTCACGGGTGTGAGGAAGGCTGCTCTCTCC
TGGAGCAATGGCAATGGCACCGCCTCTGCCGGGTTCTTCTTGAAGCATTGGAAGCCAT
GAGGAGTTGACTCAAGACTCAAGACTTCAGGTCAATATCTCGGGCCTGAAGCCAGGGGT
CAATAACAATCAACCCGTATCTTCTACAATCAAATAAGACAAAGGGAGACCCCTTGGGC
ACAGAAGTGGCTTGGATGCCAGCAATACAGAGAGAAGCCGGGCAGGGAGCCCCACCGCC
CCTGTGCATGATGAGTCCCTCGTGGGACCTGTGGACCCATCCTCCGGCCAGCAGTCCCGA
GACACGGAAGTCTGCTTGTGCGGTTAGAGCCTGGCACCCGATACAATGCCACCGTTTAT
TCCCAAGCAGCGAATGGCACAGAAGGACAGCCCCAGGCCATAGAGTTCAGGACAAATGCT
ATTCAGGTTTTTACGTCACCGCTGTGAACATCAGTGCCACAAGCCTGACCCGTGATCTGG
AAAGTCAGCGATAACGAGTCGTATCTAACTATACCTACAAGATACATGTGGCGGGGAG
ACAGATTCTTCCAATCTCAACGTGAGTGCCTCGCGCTGTCATCCCCGGACTCCGCTCC
AGCACCTTCTACAACATCACAGTGTGCTCCTAGGTGACATCGAGGGCACGCCGGGC
TTCCTCCAAGTGCACACCCCCCTGTTCCAGTTTCTGACTTCCGAGTGACAGTGGTCAGC
ACGACGGAGATCGGCTTAGCATGGAGCAGCCATGATGCAGAATCATTTCCAGATGCATATC
ACACAGGAGGGAGCTGGCAATTTCTGGGTAGAAAATAACCACCAACCAAAGTATTATCATT
GGTGGCTTGTCCCTGGAACCAAGTATTGCTTTGAAATAGTTCCAAAAGGACCAAATGGG
ACTGAAGGGGCATCTCGGACAGTTTGCAATAGAACTGGTAAGCAAATAGGCTTTTCTGTT
AAACCATCATGTTTCTTAAAGGAAATCAGTATAATTAATAAACATAATGTTTCAAAAAA
AAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGCGGTGATAGCTGTTTCCGTAAC
AGATCCCGGTGGCATCCCTGTGACCCCTCCCCAGTGCCCTCTCCTGGCCCTGGAAGTTGC
CACTCCAGTGCCACAGCCTTGCTTAATAAAATTAAGTTGCATCATTTTGTCTGACTA
GGTGTCTTCTATAATATAT
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002843 unedited
 ATTTCCCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG
 CAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGC
 GAATTCGGCACGAGGCGGAGGAGGAGGGCAAGGAGACGGCAGGAGGCGGCACGACGGTG
 CCCGGGCTCGGGCGCACGGCGGGGCCGATTTCGCGCGTCCGGGGCACGTTCCAGGGCGCG
 CGGGCATGAAGCCGGCGCGCGGGAGGGCGGGTGCCTCCGCGCTCGCCCGGCTGCGC
 TGGGCGTGCCTGCTGCTGCTGCTGCTGCTGCGCCTGGGCCAGATCCTGTGCGCAGGTGGC
 ACCCCTAGTCCAATTCTGACCCCTTCAGTAGCAACTGTTGCCACAGGGGAAAATGGCATA
 ACGCAGATCAGCAGTACAGCAGAATCCTTTCATAAACAGAAATGGAAGTGGAAACACCTCAG
 GTGAAACAAACACCAAGTGGAGTGGTAAAGCTCTGGAGCCAACGATAGTTTAAGAACA
 CCTGAACAAGGATCTAATGGGACTGATGGGGCATCTCAAAAACCTCCAGTAGCACTGGGC
 CCAGTCTGTGTTTGACATTAAGCTGTTTCCATCAGTCCAACCAATGTGATCTTAACTT
 GGGAAAAGCAATGACACAGCTGCTTCTGAGTACAAGTATGTTAGTAAAGCACTAAGATGG
 GAAATGGAGAAGACAATTACTTGTGTGGATCAACCATGGTGAACATTACAGGCTTACCG
 TCAGCGACCTTATATGGATTCCCTCTTCTCAGGAAATAGCAATGACACCTCGGCNAGA
 ACCCCACAGTCATTAAAAGTCATTACCGGAGCCGATCCCAGCTTCTGATTCTCCGGTGT
 GCCCTCCCGGGTGGGAGGGAAGTTGGCTCCCTCCTGAAGCCATGCCAAAGGGCACCCG
 CCTCTGCCGGTTNTTT

3' Read Nucleotide Sequence:

>OriGene 3' genomic read for NM_002843 unedited
 NAAAATTTACTGTGNACCGCGGCCGCTTTCGANGATCGAGTTTTTTTTTTTTTTTTTTTA
 ATGCATTGACATTTTTTATATTTGGTATTTGTAAGTCTTTAAAAAAGTTTTTCAGGCCA
 TTTTTTCTTAAAAAAGCAACCAACAGCAATACTCTGTACAAGTATAACAAA
 CATTAGAAATATGCATCATTCCAAAATAGTTACAGGAAAAATTACAGTTTAGAGTCCACA
 TCAACACATCCTATTTGTATGTGCCCAAGGGAGAAAAAGCTACAGTATGTTAAACACA
 CAGCTGTACACAGTAGTCTGAAAACCCAGGACTTAAAACCTTTGAGGCAAAATCAACAAC
 AGTCACCAAGACTTGTAGCTCAATAAGTACAATCAAGCATTTCAAAGAGAACCAGGC
 TTTTTCATCCCAGATGAAAAACACACGTGATGGGCTGCATAGCTGACCCCGCCCTCGA
 TCCCAACCCCGGAGCCTCTGACTCAACAGAGCACAAATCCAGTGGAGTCAATTAGGC
 GGAAGCTGGCTGGAGGTCACAGTATGGCTGCAAGTGGCAGACACCAAAATGTCATTTCT
 GCTGGTGTGATCATCACTAGATCCAACCTTTGGAGGCAAAAAGTCGTTGTTCTGGGAGA
 TGCTATCAATGGCCAAATCCCCCAAACAGCTGGCCACCAAGTCTTTGGCCCTTTCATTG
 ACACCCAAACCCATACCAGCTGCTTTTCTGTATGCAATTGTCAAAGACTGAACAGGGGCG
 CTCACACCATCCCCCGATTCCACTGGACTCTTCCATTNNGAGCTCATGNTCCTGGGAGG
 GGGTGAAGCTCANAGCACCTNCTCTGGCTCTGACCAACCCAGCTGTGTGTCCTTTT
 ATATTAACATT

Restriction Sites:

NotI-NotI

ACCN:

NM_002843

Insert Size:

9000 bp

OTI Disclaimer: 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.

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](#)

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:

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_002843.2](#), [NP_002834.2](#)

RefSeq Size: 5119 bp

RefSeq ORF: 4014 bp

Locus ID: 5795

UniProt ID: [Q12913](#)

Cytogenetics: 11p11.2

Domains: Y_phosphatase, PTPc_motif, FN3

Protein Families: Druggable Genome, Phosphatase, Transmembrane

Protein Pathways: Adherens junction

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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.