

Product datasheet for MR217795

Pdxd (NM_020271) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdxd (NM_020271) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pdxd
Synonyms:	1600027H05Rik; AB041662; PLPP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217795 representing NM_020271 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGCTGCGAGCGGCTGCGCGCGCGGCCCTGCGCGACGTGCTGGGCCAGGCGCAGGGAGTCTGT
TCGACTGCGACGGAGTGTGTGGAACGGCGAACGCATCGTGCCGGGCGCCCTGAGCTGCTGCAGCGGT
GGCGGGGCGGCAAGAACACGCTGTTCGTGAGCAACAACAGCCGGCGCGCGGCCCGAGCTGGCGCTG
CGCTTCGCCCGCCTGGGCTTCGCGGGGCTGCGCGCGGAGCAGCTTTCAGCTCCGCGCTGTGTGCCGCG
GCCTCCTGCGCCAGCGGCTGTCCGGGCCCGCCGACGCATCGGGCGCAGTGTTCGTGCTGGGAGGCGAGGG
GCTGCGCGCTGAGCTGCGCGCCGCGGGGCTGCGCCTGGCGGGGACCCCGGCGAGGACCCGCGCGTGC
GCCGTGCTCGTAGGCTACGACGAGCAGTTTCTCTCCAGTTGACCGAGGCGTGCAGCACCTGCGCG
ACCCGACTGCCTGCTCGTGCCACCGATCGCGACCCCTTGGCACCCGCTCAGCGACGGAAGCCGGACCC
CGGACTGGAAGCCTGGCTGCCGCGGTGGAGACAGCCTCGGGACGCCAGGCCCTGGTGGTGGGCAAGCC
AGCCCTTACATGTTCCAGTGCATCACAGAAGACTTCAGCGTGGACCCCGCCGACGCTGATGGTGGGG
ACCGCTGGAGACGACATACTTTGGCCACCGCTGCGGCATGACCACCGTGTCTACGCTACGGGCGT
CTCCAGCCTCGAAGAAGCCAGGCCTACCTGACGGCTGGCCAGCGTGACCTTGTGCCTACTACTATGTG
GAGAGCATTGCGGACTTGATGGAGGGGCTGGAGGAC

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217795 representing NM_020271
Red=Cloning site Green=Tags(s)

MARCERLRGAALRDVLGQAQGVLFDCDGVLWNGERIVPGAPPELLQRLARAGKNTLFVSNNSRRARPELAL
 RFARLGFAGLRAEQLFSSALCAARLLRQRLSGPPDASGAVFVLGGEGRLAELRAAGLRLAGDPGEDPRVR
 AVLVGDEQFVSRLTEACAPHLRDPDCLLVATDRDPWHPLSDGSRTPGTGSLAAAVETASGRQALVVGKPK
 SPYMFQCITEDFSVDPARTLMVGDRLTDILFGHRCGMMTVLTLTGVSSLEEAQAYLTAGQRDLVPHYYY
 ESIADLMEGLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9089_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020271

ORF Size: 876 bp

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.

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_020271.3](#), [NP_064667.2](#)

RefSeq Size: 2018 bp

RefSeq ORF: 879 bp

Locus ID: 57028

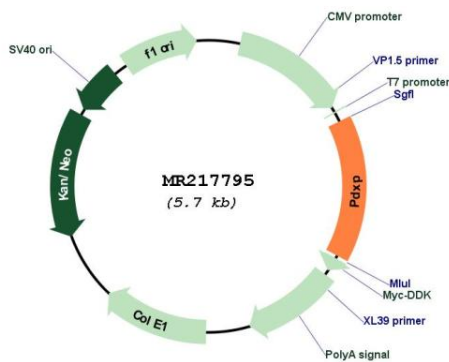
UniProt ID: [P60487](#)

Cytogenetics: 15 E1

MW: 31.5 kDa

Gene Summary: Protein serine phosphatase that dephosphorylates 'Ser-3' in cofilin and probably also dephosphorylates phospho-serine residues in DSTN. Regulates cofilin-dependent actin cytoskeleton reorganization. Required for normal progress through mitosis and normal cytokinesis. Does not dephosphorylate phospho-threonines in LIMK1. Does not dephosphorylate peptides containing phospho-tyrosine (By similarity). Pyridoxal phosphate (PLP) phosphatase, which also catalyzes the dephosphorylation of pyridoxine 5'-phosphate (PNP) and pyridoxamine 5'-phosphate (PMP), with order of substrate preference PLP > PNP > PMP (By similarity) (PubMed:24338473, PubMed:24338687).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217795