

Product datasheet for **MC224532**

Pxdn (NM_181395) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pxdn (NM_181395) Mouse Untagged Clone
Tag: Tag Free
Symbol: Pxdn
Synonyms: 2310075M15Rik; C85409; E330004E07; mKIAA0230; VPO1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224532 representing NM_181395
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCGTGCGCCCCACGCGCCGCTGCCTGCTGGCGCTCCTGCTGTGCTTTGCCTGGTGGCCATGGCGG
TGGTCGCCTCGAAGCAAGGGCAGGCTGTCCAAGCCGCTGCCTGTGTTTCCGTACCACCGTGCCTGCAT
GCATCTGTTGCTGGAGGCGTGCCTGCGCCGCGCAGACCTCCATCCTAGATCTTCGGTTCAACAGA
ATCAGAGAGATCCAACCCGGGGCATTACAGAGGCTGAGGAGCCTGAACACACTGCTTCTTAAACAACAC
AGATCAAGAAGATCCCCAATGGTGCATTTGAGGACCTGGAGAACTTAAAAACCTCTATTTGTACAAGAA
TGAGATCCAATCAATTGACAGGCAAGCATTTAAGGGACTTGCCTCTCTAGAGCAACTGTACCTGCACTTT
AATCAGATAGAAACGCTGGACCTGAATCCTTCCAGCACCTGCCAAAGCTGGAGAGACTGTTTTGCACA
ACAACCGTATCACGCACTTAGTTCCTGGGACGTTAGTCAGTTAGAGTCCATGAAACGGCTGCGATTGGA
CTCGAATGCACTCCACTGTGACTGTGAAATCCTATGGCTAGCGGATCTACTGAAGACCTACGCCCAATCT
GGAAACGCACAAGCAGCAGCTACATGCGAGTATCCAGACGCATCCAAGGACGCTCTGTGGCTACCATCA
CCCCAGAAGAGCTGAACGTGAAAGGCCCGGATTACCTCAGAGCCACAGGATGCAGATGCACCTCAGG
GAACACAGTGTACTTACCTGCAGAGCTGAGGGCAACCCAAACCTGAGATCATCTGGCTTCGAAACAAT
AACGAGTTGAGCATGAAGACGGACTCTCGCTTAAACTTGTGGACGATGGCACGCTGATGATTCAGAACA
CACAGGAGGCGGATGAGGGTGTCTACCAGTGCATGGCGAAAAATGTGGCTGGAGAGGCGAAAAACGAGGA
GGTGACCCTCAGGTACTTGGGGTCTCCAGCCGACCCACTTTTGTAAATCCAGCCGAGAACACAGAGGTA
CTGGTGGGTGAGAGTGTCACTCTGGAGTGCAGTGCCACAGGCCACCCTCTGCCTCAGATCACCTGGACAA
GAGGTGACCGCACACCCTTGCCAATTGACCCTCGAGTGAATATCACTCCCTCTGGAGGACTGTATATACA
GAACGTCGCCCAGAGTGACAGCGCGGAGTACACGTGCTTTGCATCCAATAGTGTGGACAGTATCCATGCC
ACAGCCTTCATCATTGTACAAGCCCTTCTCAGTTCAGTGTGACCCACAGAGCCGAGTGGTCATTGAAG
GGCAGACTGTGGATTTCCAGTGTGCGGCTAAGGGACACCCTCAGCCTGTCATAGCCTGGACCAAGGGAGG
GAGCCAGCTCTCAGTGGACAGGCGGCACCTGGTGTGCTCCTCAGGAACACTCAGGATTTCTGGGGTGGCC
CTGCATGACCAGGGCCAGTATGAGTGCCAGGCCGTCATATCATTGGCTCCCAGAAGGTCGTGGCCACC



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TGACAGTACAGCCTAGAGTCACCCCGTATTTGCCAGCATTCCCAGTGACATGACTGTAGAGGTGGGCAC
 CAACGTGCAGCTGCCTTGTAGCTCCCAGGGAGAACCAGAGCCAGCCATCACCTGGAACAAGGATGGTGT
 CAGGTAACAGAAAAGTGGAAAATTTACATCAGCCCCGAAGGATTCTTGACCATCAATGATGTTGGCACTG
 CCGATGCAGGTCGCTATGAGTGTGTAGCTCGGAACACAATTGGATATGCCTCTGTGAGCATGGTACTCAG
 TGTGAATGTTCTGATGTAAGTCGGAATGGGGATCCCTATGTTGCTACCTCTATTGTTGAAGCCATTGCA
 ACTGTTGACAGAGCCATCAACTCTACAAGGACACACTTGTGTTGACAGCCGTCCTCGTTCTCCAAATGACC
 TGCTCGCTGTTCGGTACCCACGGGATCCATACACAGTGGGACAAGCCAGGGCAGGAGAGATATTCGA
 GCGGACCCTGCAGCTGATCCAGGAGCATGTTACGATGGCTTGATGGTGGACTTGAATGGAACAAGTTAC
 CACTACAATGATCTGGTGTCCCCGAGTACCTGAGCCTCATCGCCAACCTGTCAGGCTGCACTGCACACC
 GCCCGTGAACAACCTGCTCAGACATGTGCTTCCACCAGAAGTATAGGACGCACGATGGCAGTGAACAA
 TCTACAGCACCCGATGTGGGTGCCTCACTGACCGCCTTTGAGCGCTGTTGAAGGCTGTGTATGAGAAT
 GGGTTCAACACACCCCGGGCATTAAATCCAGCGTCAGTACAATGGGCATGACTACCCATGCCCGCC
 TGGTGTCCACCACACTGATTGGGACAGAGGTGATCACCCCGATGAGCAGTTTACACACATGCTGATGCA
 ATGGGGCCAGTTCCTTGACCATGACCTAGACTCTACAGTGGTAGCCCTGAGCCAGGCCCGCTTCTCTGAC
 GGGCAGCATTGCAGCTCTGTGTGACGAATGACCTCCCTGTTTCTCGGTGATGATCCCCCAATGATC
 CCGGGTGCAGGAGTGGCGCCGATGCATGTTCTTCGTGCGATCGAGCCCGTGTGTGGCAGCGGCATGAC
 GTCCTGCTCATGAACTCTGTGTACCCTCGAGAGCAGATCAACCAGCTCACCTCCTACATCGATGCCTCC
 AATGTGTACGGCAGCACAGACCAGAAGCCCGCAGCATCCGGGACCTGGCCAGCCACCGTGGCCTGCTGC
 GTCAGGGCATTGTGCAGAGGTCTGGCAAGCCCTGCTTCCCTTTGCCACCGGGCCACCCACTGAGTGCAT
 GCGCGATGAGAACGAGAGCCGATACCATGCTTCTGGCCGGCAGCCACCGTGCACACGAGCAGCTTGGC
 CTGACCAGCATGCATACGCTGTGGTCCGGGAGCACAACCGCATTGCAGCAGAGCTGTTGAAGCTAAACC
 CGCACTGGGATGGGACACTGTCTACCATGAGACCCGCAAGATAGTCGGGCAGAGATACAGCACATCAC
 CTACCCGCACTGGCTGCCAAGATCCTGGGGAGGTGGGCATGAAGATGCTCGGTGAGTACCGGGGCTAC
 GACCCCGTGTCAATGCTGGCATCTTTAATGCCTTTGCCACTGCAGCCTTCAGGTTGCGTACACTCTGA
 TCAACCCTCTGCTCTACCGGCTGGATGAGAATTTGAGCCATCCCTCAGGGCCATGTGCCCTCCACAA
 AGCCTTCTTCTCGCCTTCCGGATTGTCAACGAGGGGGGCATCGACCCACTTCTCCGAGGGCTGTTTGA
 GTGGCAGGGAAGATGCGCATTCCCTCTCAATTGCTGAACACAGAGCTCACGGAGAGGCTGTTCTCCATGG
 CCCACACAGTGGCCCTGGACCTGGCTGCCATCAATATCCAGCGAGGCCGGGACCATGGCATCCCACCCTA
 CCATGACTACAGAGTCTACTGCAACTTGTGGCTGCTTACACCTTTGAGGACCTGAAAAATGAGATCAAG
 AGCCCTGTGATCCGGGAGAACTGCAGAGGCTGTATGGCTCGACTCTCAACATTGATCTGTTCCCAGCCC
 TCATGGTAGAAGACCTAGTACCTGGCAGCCGCTTGGGGCCACACTCATGTGCTGCTCAGCACACAGTT
 CCGACGCCTGCGGGATGGAGACAGGTTGTGGTATGAGAACCAGGCGTGTCTCCCCGCCAGCTGACT
 CAGCTCAAGCAGACGTCCCTGGCGAGGATCCTTTGTGACAACCTAGACAACATCACCCGTGTGCAGCAGG
 ATGTGTTCAAGGTGGCAGAGTTCACCCACGGTTATAGCAGCTGTGAGGACATCCCCAGGGTGGACCTGCG
 AGTGTGGCAGGACTGTTGTGAAGATTGTAGGACCAGGGGACAATTCAATGCTTTCTCCTACCATTCCGG
 GGAAGACGGTCTCTAGAATTTAGCTATGAGGACGATAAGCCACAAAGAGAGCCAGGTGGCGAAAGCAC
 TAAGTGTAAAGCATGGCAACATCTTAGCAATGCCACATCAGCCACCCACGAGCACTTGAAGGGCCAGC
 AACTAATGATCTCAAGGAATTTGTTCTGGAAATGCAAAAGATCATCACAGACCTCAGAAAACAGATAAAC
 AGCTTGGAGTCTCGGCTCAGCACACAGAATGTGTGGATGACAGCGGTGAATCTCACGGCGGCAACACAA
 AGTGGAAAAAAGACCCATGCACAGTTTGTGAGTGCAAAAATGGCCAGATCACCTGCTTTGTGGAAGCTTG
 CAGCCTGCAGCCTGCCCCAGCCTGTGAAAGTGAAGGCGCTTGTGTCCCGTCTGCTTAAAGAACACT
 GCAGAGGAAAAGCCTTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_181395
 Insert Size: 4428 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_181395.2](#), [NP_852060.2](#)

RefSeq Size: 6632 bp

RefSeq ORF: 4428 bp

Locus ID: 69675

UniProt ID: [Q3UQ28](#)

Cytogenetics: 12 A2

Gene Summary: Displays low peroxidase activity and is likely to participate in H₂O₂ metabolism and peroxidative reactions in the cardiovascular system (By similarity). Plays a role in extracellular matrix formation.[UniProtKB/Swiss-Prot Function]