

## Product datasheet for **MG218888**

### Pxdn (NM\_181395) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pxdn (NM_181395) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pxdn
Synonyms:	2310075M15Rik; C85409; E330004E07; mKIAA0230; VPO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218888 representing NM_181395 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGTGCGCCCCATGCGCCGCTGCCTGCTGGCGCTCGTGCTGTGCTTTGCCTGGTGGGCCATGGCGG  
TGGTCGCCTCGAAGCAAGGGGCAGGCTGTCCAAGCCGCTGCCTGTGTTCCCGTACCACTGTGCGCTGCAT  
GCATCTGTTGCTGGAGGCCGTGCCGCCGTGGCGCCGAGACCTCCATCCTAGATCTTCGGTTCAACAGA  
ATCAGAGAGATCCAACCCGGGGCATTGAGGAGCTGAGGAGCCTGAACACACTGCTTCTTAAACAACAACC  
AGATCAAGAAGATCCCCAATGGTGCATTTGAGGACCTGGAGAACTTAAAATACCTCTATTTGTACAAGAA  
TGAGATCCAATCAATTGACAGGCAAGCATTTAAGGGACTTGCCTCTCTAGAGCAACTGTACCTGCACTTT  
AATCAGATAGAAAACGCTGGACCTGAATCCTTCCAGCACCTGCCAAAGCTGGAGAGACTGTTTTTGCACA  
ACAACCGTATCACGCACTTAGTTCCTGGGACGTTGAGTGCATGAAACGGCTGCGATTGGA  
CTCGAATGCACTCCACTGTGACTGTGAAATCCTATGGCTAGCGGATCTACTGAAGACCTACGCCAATCT  
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CCCCAGAAGAGCTGAAGTGTGAAAGGCCCGGATTACCTCAGAGCCACAGGATGCAGATGCACCTCAGG  
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GGTGACCTCAGGTACTTGGGGTCTCCAGCCCGACCCACTTTTGTAAATCCAGCCGAGAACAACAGAGGTA  
CTGGTGGGTGAGAGTGTCACTCTGGAGTGCAGTGCCACAGGCCACCCTCTGCCTCAGATCACCTGGACAA  
GAGGTGACCGCACACCCTTGCCAATTGACCCTCGAGTGAATATCACTCCCTCTGGAGGACTGTATATACA  
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CTGCATGACCAGGGCCAGTATGAGTGCCAGGCCGTC AATATCATTGGTCCCAGAAGTCGTGGCCACC  
TGACAGTACAGCCTAGAGTACCCCGGTATTTGCCAGCATTCCCAGTGACATGACTGTAGAGGTGGGCAC  
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CCCACACAGTGGCCCTGGACCTGGCTGCCATCAATATCCAGCGAGGCCGGGACCATGGCATCCCACCCTA  
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AGCTTGGAGTCTCGGCTCAGCACACAGAATGTGGATGACAGCGGTGAATCTCACGGCGCAACACAA  
AGTGGAAAAAAGACCCATGCACAGTTTGTGAGTGCAAAAATGGCCAGATCACCTGCTTTGTGGAAGCTTG  
CCAGCCTGCAGCCTGCCCCAGCCTGTGAAAGTGGAAAGCGCTTGCTGTCCCGTCTGCTTAAAGAACACT  
GCAGAGGAAAAGCCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG218888 representing NM\_181395  
 Red=Cloning site Green=Tags(s)

MAVRPMRRCLLALVLCFAWAMAVVASKQGAGCPSRCLCFRTTVRCMHLLEAVPAVAPQTSILDRLFNR  
 IREIQPGAFRRRLSLNTLLNNQIKKIPNGAFEDLENLKYLYLKYNEIQSIDRQAFKGLASLEQLYLHF  
 NQIETLDPEFQHLPKLERLFLHNNRITHLVPGTF SQLESMKRLRLDSNALHCDCEILWLADLLKTYAQS  
 GNAQAAATCEYPRRIQGRSVATITPEELNCRPRITSEPQDADVTSGNTVYFTCRAEGNPKPEIWLNRNN  
 NELSMKTD SRLNLLDDGTLMIQNTQE ADEGVYQCMAKNVAGEAKTQEVTLYRGLGSPARPTFVIQPQNT  
 EVLVGESVTLCSATGHPLPQITWTRGDRTPLPIDPRVNITPSGGLYIQNVAQSDSGEYTCFASNSVDSIHA  
 TAFIIVQALPQFTVTPQSRVIEGQTVDFQCAAKGHPQPIAWTKGGSQSVDRRHVLVSSGTLRISGVA  
 LHDQGGYECQAVNIIGSQKVVVAHLTVQPRVTPVFAVIPSDMTVEVGTNVQLPCSSQGEPEPAITWNKDG  
 VQVTESGKFHISPEGFLTINDVGTADAGRYECVARNTIGYASVSMVLSVNVDPVSRNGDPYVATSIVEAIA  
 TVDRAINSTRTHLFDSRPRSPNDLLALFRYPRDPYTVGQARAGEIFERTLQLIQEHVQHGLMVDLNGTSY  
 HYNDLVSPQYLSLIANLSGCTAHRRVNNCSDMCFHQKYRTHDGTNNLQHPMWGASLTA FERLLKAVYEN  
 GFNTPRGINSQRQYNGHVLPMRPLVSTTLIGTEVITPDEQFTHMLMQWQGFLDHDL DSTVVALSQARFSD  
 GQHCSSVCSNDPPCF SVMIPPNDPRVRSARGCMFFVRSSPVCGSGMTSLLMNSVYPREQINQLTSYIDAS  
 NYVGSTDHEARSIRDLASHRGLLRQGI VQRSGKPLL PFATGPPTECMRDENESIPCFLAGDHRANEQLG  
 LTSMHTLWFREHNRIAAELLKLNPHWDGDTVYHETRKIVGAEIQHITYRHWP KILGEVGMKMLGEYRGY  
 DPSVNAGIFNAFATAAFRFGHTLINPLL YRLDENFEPIPGHVP LHKAFSPFRI VNEGGIDPLL RGLFG  
 VAGKMRIPSQLLNTELT ERLFSMAHTVALDLAAINIQRGRDHGIPYHYDYRVCNL SAAYTFEDLKNEIK  
 SPVIREKLQRLYGSTLNIDLFPALMVEDLVPGSRLGPTLMCLLSTQFRRLRDGDLWYENPGVFS PAQLT  
 QLKQTSLARILCDNSDNI TRVQQDVFRVAEFP HGYSSCEDIPRVDLRVWQDCCEDCRTRGQFNAFSYHFR  
 GRRSLEFSYEDDKPTKRARWRKALSVKHGKHL SNATSATHEHLEGPATNDLKEFVLEMQKIITDLRKQIN  
 SLESRLSTTECVDDSGESHGGNTKWKKDPC T VCECKNGQITCFVEACQPAACPQPVKVEGACCPVCLKNT  
 AEEKP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

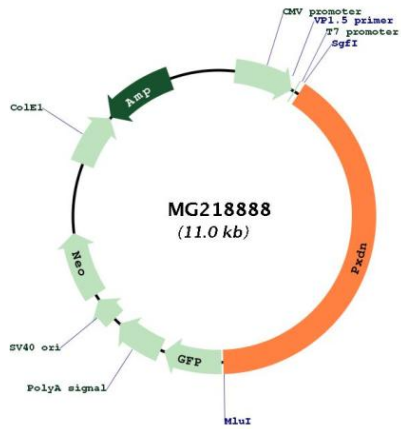


ACCN: NM\_181395

ORF Size: 4425 bp

<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_181395.2</a> , <a href="#">NP_852060.2</a>
<b>RefSeq Size:</b>	6632 bp
<b>RefSeq ORF:</b>	4428 bp
<b>Locus ID:</b>	69675
<b>UniProt ID:</b>	<a href="#">Q3UQ28</a>
<b>Cytogenetics:</b>	12 A2
<b>Gene Summary:</b>	Displays low peroxidase activity and is likely to participate in H <sub>2</sub> O <sub>2</sub> metabolism and peroxidative reactions in the cardiovascular system (By similarity). Plays a role in extracellular matrix formation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG218888