

Product datasheet for **MR207989**

Pyroxd1 (NM_183165) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pyroxd1 (NM_183165) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pyroxd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207989 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGCCCGCGACCGCAGGGACATTCGTGGTGGTAGGAGGTGGCATCGCTGGCGTCACGTGTGCCG
 AGCAGCTGGCTGTCAAGTTCCAGAGGAAGACATTCTCCTAGTCACAGCCTCTCCTGTTATCAAAGCCGT
 TACAAACTTCAGACAGGTTTCTAAAGTACTGGAAGAATTTGATGTTGAAGAACAGCCAGGTATTATGCTG
 GAAAGTCGCTTTCCCAACATTAAGGTGATCGAATCTGGAGTAAAGCAGTTGAAGAGTGAAGACCATTGCA
 TCTTCACAGAAGACGGTCGTGAGTTTGTATATAAGAACTCTGTCTGTGTGCTGGAGCTAAGCCAAAGTT
 AATCTACGAGGAAATCCACGTGACTGGGAATCCGTGATACAGACAGTCTCAGGAATTCAGAAAAGAG
 CTTGCAAAAGCCAGGAGGATAATGATTGTCGGGAATGGCGCATTGCTCTGGAGCTAGCGTATGAAATTG
 AAGGCTGTGAAGTAGTTGGGCCATAAAGGATAACGCCATTGGGAATACATTCCTTGACGCGGGTGCAGC
 AGAGTTTCTGACTCCAAGCTCATGTCTGAAAAATCAGAGGCTAAAAGTGCACATAAAAGAACTATATAT
 ACAGTTGAAGAAGCAAAGAAGGAAACCAGAACCAATCTAAAGCTGATTATGTGGCAGTGCCCTTGGAC
 CAGACTGGCAGGAGGCTTGGCTTTGAAAGGAACTGAAGAGTTTTCTCACAGTGTTCACATTGAAACCAG
 ATGTGAAGTAAAGAAAATCTACCTTGAAGAGGAATTTAAGATTATGAAGAAAAAGTCTTGGCTTTTCCA
 AAGGACCACCAATAAGTCAGTTACAGCTGATAAAGAAATGTGGCCTGTGTATGTGGAATGACCAATGGGA
 AAATATACGGCTGTGATTTCTTGTGACGCTACAGGAGTCAACCCAAACGTACACCTTTCTTCCATAG
 AAACAATTTGCTCTAGGAGAAGATGGCGGCTGAGAGTGGATGACCAGATGCGCAGTCACTTCTGAT
 ATCTATGCTGTGGAGACATCTGCACTGCGTGTGGCAGCCGAGTCCAGTCTGGCAGCAGATGAGATTGT
 GGACACAGGCCCGCAGATGGGTATTATGCAGCCAAGTGCATGGCCGAGTCCAGTCTGGCAGCAGATCCTAT
 TGACATGGATTTTCAAGCTTTGAACTGTTTGGCTCATGTACAAAGTTTTTTAACTATAAGGTTGTATTGCTG
 GGAAAATACAACGCACAAGGCTGGGCGCAGACCATGAGTTGATGCTGAGGTGCCAGAGGACAAGAGT
 ATGTCAAAGTCGTATGCAGAATGGACGCATGATGGGAGCCGCTTAATTGGTGAACGGACTTAGAGGA
 AACATTTGAAAATTAATCTTAAACCAATGGACCTTTCATCATACGGGGAGGATCTCCTAGATCCAAAT
 ATCGACATAGAGGATTATTTTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207989 protein sequence
 Red=Cloning site Green=Tags(s)

MEAPRPAGTFVVVGGGIAGVTCAEQLAVSFPEEDILLVTASPVIAKAVTNFRQVSKVLEEFDVEEQPGIML
 ESRFPNIKVIESGVKQLKSEDFHIFTEDGREFVYKKLCLCAGAKPKLIYEGNPRVLGIRDTDSAQEFQKE
 LAKARRIMIVNGGIALELAYEIEGCEVVWAIKDNAIGNTFDAGAAEFLTSKLMSEKSEAKTAHKRTIY
 TVEEAKKETRTRKSKADYVGSALGPDWHGLALKGTEEFSHSVHIETRCEVKKIYLEEEFKIMKKKSLAFP
 KDHHSVTDKEMWPVYVELTNGKIYGCDFLVSATGVTNPVHPFLHRNPFALGEDGLRVDDQMRTSLPD
 IYAAGDICTACWQPSPVWQMLWTQARQMGYYAAKCAAASMGHPIDMDFSFELFAHVTKFFNYKVVLL
 GKYNAGLGLADHEMLRCTRQGEYVKVVMQNGRMMGAFLIGETDLEETFENLILNQMDLSSYGEDLLDPN
 IDIEDYFD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_183165

ORF Size: 1497 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_183165.1](#)
RefSeq Size: 2155 bp

RefSeq ORF: 1497 bp

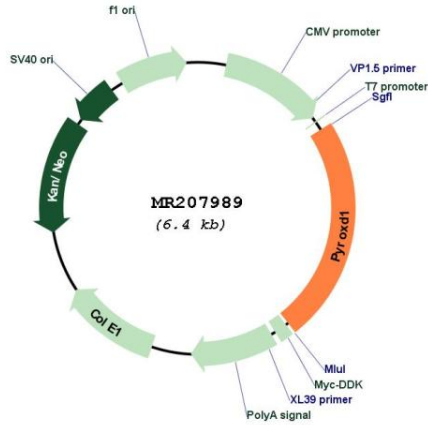
Locus ID: 232491

UniProt ID: [Q3TMV7](#)
Cytogenetics: 6 G2

MW: 55.6 kDa

Gene Summary: Probable FAD-dependent oxidoreductase; involved in the cellular oxidative stress response (By similarity). Required for normal sarcomere structure and muscle fiber integrity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207989