

Product datasheet for **MG207989**

Pyroxd1 (NM_183165) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pyroxd1 (NM_183165) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pyroxd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207989 representing NM_183165
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGCCCGCGACCGCAGGGACATTCGTGGTGGTAGGAGGTGGCATCGCTGGCGTCACGTGTGCCG
 AGCAGCTGGCTGTCAAGTTCCAGAGGAAGACATTCTCCTAGTCACAGCCTCTCCTGTTATCAAAGCCGT
 TACAAACTTCAGACAGGTTTCTAAAGTACTGGAAGAATTTGATGTTGAAGAACAGCCAGGTATTATGCTG
 GAAAGTCGCTTTCCCAACATTAAGGTCAATCGAATCTGGAGTAAAGCAGTTGAAGAGTGAAGACCATTGCA
 TCTTCACAGAAGACGGTCTGAGTTTGTATATAAGAACTCTGTCTGTGTGCTGGAGCTAAGCCAAAGTT
 AATCTACGAGGAAAATCCACGTGTACTGGGAATCCGTGATACAGACAGTCTCAGGAATTCAGAAAAGAG
 CTTGCAAAAGCCAGGAGGATAATGATTGTCGGGAATGGCGGCATTGCTCTGGAGCTAGCGTATGAAATTG
 AAGGCTGTGAAGTAGTTGGGCCATAAAGGATAACGCCATTGGGAATACATTCCTTGACCGGGTGCAGC
 AGAGTTTCTGACTCCAAGCTCATGTCTGAAAAATCAGAGGCTAAAAGTGCACATAAAAGAACTATATAT
 ACAGTTGAAGAAGCAAAGAAGGAAACCAGAACCAAATCTAAAGCTGATTATGTGGCAGTGCCCTTGGAC
 CAGACTGGCAGGAGGCTTGGCTTTGAAAGGAACTGAAGAGTTTTCTCACAGTGTTCACATTGAAACCAG
 ATGTGAAGTAAAGAAAATCTACCTTGAAGAGGAATTTAAGATTATGAAGAAAAAGTCTTGGCTTTTCCA
 AAGGACCACCAATAAGTCAGTTACAGCTGATAAAGAAATGTGGCCTGTGTATGTGGAAGTACCAATGGGA
 AAATATACGGCTGTGATTTCTTGTGTCAGCGCTACAGGAGTCAACCCAAACGTACACCTTTCTTTCATAG
 AAACAATTTTGTCTAGGAGAAGATGGCGGCCTGAGAGTGGATGACCAGATGCGCAGTCACTTCTGAT
 ATCTATGCTGTGGAGACATCTGCACTGCGTGTGGCAGCCGAGTCCAGTCTGGCAGCAGATGAGATTGT
 GGACACAGGCCCGCAGATGGGGTATTATGCAGCCAAGTGCATGGCCGAGTCCAGTCCAGTCCAGTCCAGT
 TGACATGGATTTTCAGCTTTGAAGTGTGCTCATGTACAAAGTTTTTTAACTATAAGGTTGTATTGCTG
 GGAAAATACAACGCACAAGGCCTGGCGCAGACCATGAGTTGATGCTGAGGTGCACCAGAGGACAAGAGT
 ATGTCAAAGTCGTATGCAGAATGGACGCATGATGGGAGCCGCTTAATTGGTGAACCGACTTAGAGGA
 AACATTTGAAAATTAATCTTAAACCAAATGGACCTTTCATCATACGGGGAGGATCTCCTAGATCCAAAT
 ATCGACATAGAGGATTATTTTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207989 representing NM_183165
 Red=Cloning site Green=Tags(s)

MEAPRPAGTFVVVGGGIAGVTCAEQLAVSFPEEDILLVTASPVIAKAVTNFRQVSKVLEEFDVEEQPGIML
 ESRFPNIKVIESGVKQLKSEDHCIFTEDGREFVYKLLCLCAGAKPKLIYEGNPRVLGIRDTSAQEFQKE
 LAKARRIMIVNGGIALELAYEIEGCEVWAIKDNAIGNTFDAGAAEFLSKLMSEKSEAKTAHKRTIY
 TVEEAKKETRTKSKADYVGSALGPDWHGGLALKGTEEFSHSVHIETRCEVKKIYLEEEFKIMKKKSLAFP
 KDHHKSVTADKEMWPVYVELTNGKIYGCDLVSATGVTPNVHPFLHRNNFALGEDGLRVDQMRTSLPD
 IYAAGDICTACWQPSPVWQMRMLWTQARQMGYYAAKMAAASMGHPIDMDFSFELFAHVTKFFNYKVLL
 GKYNAGLGLGADHELMRCTRQGEYVKVMQNGRMMGAVLIGETDLEETFENLILNQMDLSSYGEDLLDPN
 IDIEDYFD

TRTRPLE - GFP Tag - V

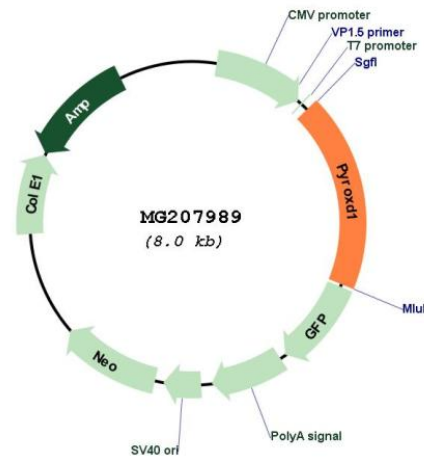
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_183165

ORF Size: 1494 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: 2158 bp

RefSeq ORF: 1497 bp

Locus ID: 232491

UniProt ID: [Q3TMV7](#)

Cytogenetics: 6 G2

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]