

Product datasheet for **RN205362**

Pyroxd1 (NM_001004234) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pyroxd1 (NM_001004234) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pyroxd1
Synonyms:	MGC94881
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN205362 representing NM_001004234
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGCCGCGCGACCGCAGGGACATTCGTGGTGGTGGGAGGCGGCATCGCTGGCGTCACGTGTGCCG
AGCAGCTGGCTATTAATTTCCCGCAGAAGACATTCTCCTGGTCACAGCCTCTCCTGTTATCAAAGCAGT
TACAAACTTCAAACAGGTGTCTAAAGTACTGGAAGAATTTGATGTTGAAGAACAGCCAAGCACCATGCTG
GAAATCGCTTTCCCAACATTAAGGTACATAGAATCTGGAGTAAAGCAGCTGAAGAGTGACAAGCACTGCA
TCTTCACAGAAGATGGCCGTGAGTATGTGTATAAGAACTCTGCCTGTGTGCTGGAGCTAAGCCAAAGTT
AATCTGCGAGGGAAATCCCTATGTACTGGGATCCGTGATACAGACAGTCTCAGGAATTCAGAAAACAG
CTTACAAAAGCCAGGAGAATAATGATTGTCGGGAATGGTGGCATTGCTCTGGAGCTGGCGTATGAAGTCG
AAGTCTGTGAAGTGATTTGGGCCATAAAGGATAAAGCCATTGGAATACATTCCTTTGATGCGGGCGCAGC
AGAGTTTTGACTTCCAGGCTCCTGTCTGAAAAATCGGAGGCTAAACTTGCACACAAAAGAACGATCTAC
ACAGTCAAGAAGCAAAAAGGAAACCAGTACCAAATCTAAAGCCGATTATGTGGCAGTGCCCTTGGAC
CAGACTGGCATGGAGGCTTGGCTTTGAAAGGAACAGAGGAGTTTTCTCACAGTATTCACATTGAAACCAA
ATGTGAAGTAAAGAAAATCTACCTTCAAGAGGAGTTAAGATTATGAAGAAAAATCCTTGGCTTTTCCA
AAGGATACCCATAAGTCAGTTACAGTTGATAAAGAAATGTGGCCTGTGTATGTGGAATGACGAACGGCA
GCATATACGGCTGTGATTTCTTGTGACGCTACAGGAGTACCCCAATGTGCAGCCGTTTCTCCATGG
AAACGATTTTGACCTAGGAGAAGATGGCGGCTGAGAGTAGATGAGCAGATGCGCACGTCACCTTCTGAT
ATCTATGCTGCTGGAGACATCTGACTGCATGCTGGCCGCAAGCCAGTCTGGCAGCAGATGAGACTGT
GGACGCAGGCACGGCAGATGGGGTCTATGCAGCCAAGTGCATGGCTGCAGCTACTATGGGGCATCCTAT
TGACATGGACTTCAGCTTTGAACTGTTTGCTCATGTCACTAAATTTTTAACTATAAGGTTGTGCTGCTA
GGCAAATACAACGCACAAGGCTGGGTGTGGACCAGGTTAATGCTGAGGTGCCACAGGGGACAGGAGT
ACATCAAAGTCGTATGCACAACGGACGCATGATGGGAGCTGTCTTAATTGGTAAAAGTACTTGGAGGA
GACATTTGAAAATTAATTTTAAACCAATGGACCTTTCATCATACGGGGAGGATCTGCTAAATCCAGAT
ATCGATATAGAGGATTATTTGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001004234

Insert Size: 1497 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001004234.1](#), [NP_001004234.1](#)

RefSeq Size: 1781 bp

RefSeq ORF: 1497 bp

Locus ID: 297708

UniProt ID: [Q68FS6](#)

Cytogenetics: 4q44

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]