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Product datasheet for SC111958

PYROXD1 (NM_024854) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PYROXD1 (NM_024854) Human Untagged Clone
Tag:	Tag Free
Symbol:	PYROXD1
Synonyms:	MFM8
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC111958 sequence for NM_024854 edited (data generated by NextGen Sequencing)

ATGGAGGCAGCGCGCCCTCCCCCGACGGCAGGGAAGTTCGTGGTGGTCGGCGGCGGCATC
GCGGGCGTCACTTGTGCGGAGCAGTTGGCTACTCACTTTCCATCGGAAGATATTCTCTTG
GTAACAGCTTCTCCTGTTATTAAAGCAGTTACAAATTTCAAGCAGATTTCTAAAATATTG
GAAGAATTCGATGTTGAAGAACAATCAAGTACCATGTTAGGAAAACGCTTTCCCAACATT
AAGGTTATAGAATCTGGCGTAAAGCAACTGAAGAGTGAAGAACACTGCATTGTAACAGAA
GATGGCAATCAGCACGTATATAAGAAACTCTGTCTGTGTGCTGGAGCTAAACCAAAGTTG
ATATGTGAAGGAAATCCTTATGTATTAGGAATCCGTGATACAGACAGTGCTCAGGAATTT
CAGAAACAGCTTACTAAAGCTAAAAGAATAATGATCATAGGGAACGGTGGTATTGCACTT
GAGTTAGTGTATGAAATTGAAGGCTGTGAAGTGATTTGGGCCATTAAAGATAAAGCTATA
GGGAATACTTTCTTCGATGCAGGAGCAGCTGAATTCTTGACTTCAAAGCTCATTGCTGAA
AAATCAGAGGCTAAAATTGCACATAAAAGAACCAGATATACAACTGAAGGAAGGAAAAAG
GAAGCTAGAAGCAAATCTAAAGCAGATAATGTAGGAAGTGCATTGGGACCAGATTGGCAT
GAAGGCTTGAATCTTAAAGGAACAAAAGAGTTTTCTCATAAGATTCACCTTGAAACTATG
TGTGAAGTAAAGAAAATCTACCTTCAGGATGAGTTTAGAATTTTGAAGAAAAAGTCCTTC
ACTTTTCCAAGAGACCATAAGTCAGTTACAGCTGATACAGAGATGTGGCCTGTCTATGTG
GAATTGACCAATGAAAAGATATATGGCTGCGATTTCATTGTCAGTGCTACAGGAGTTACA
CCAAATGTAGAACCTTTTCTCCATGGTAACAGTTTTGATCTAGGAGAAGATGGTGGCCTG
AAAGTGGATGATCATATGCACACATCCCTTCCTGATATCTATGCTGCCGGTGACATCTGT
ACTACATCCTGGCAGCTGAGCCCAGTCTGGCAGCAGATGAGGCTGTGGACCCAGGCTAGA
CAGATGGGATGGTATGCAGCAAAGTGCATGGCTGCAGCGAGTTCAGGAGACTCTATTGAC
ATGGATTTCAGCTTTGAACTGTTTGCTCATGTGACAAAATTTTTTAACTATAAGGTTGTA
CTGCTGGGAAAATACAATGCACAGGGCTTAGGTTCAGATCATGAATTAATGCTGAGATGT
ACCAAAGGACGAGAATACATCAAAGTCGTCATGCAAAATGGACGAATGATGGGAGCTGTC
TTAATTGGTGAAACCGATTTAGAAGAAACATTTGAAAACCTAATCTTAAACCAAATGAAT
CTTTCATCATATGGAGAAGATCTGCTAGATCCAAATATTGATATAGAAGATTATTTTGAC
TAA

Clone variation with respect to NM_024854.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024854 unedited

CAGTCAGATTTGTACTCGATCATATGGGCGGCCGCTGAATCGGCACGAGGCCTCGTGCCG
AATTCGGCACGAGGCAGTAAACCACTGGGAGTCCGGCAGCATGGAGGCAGCGCGCCCTCC
CCCGACGGCAGGGAAGTTCGTGGTGGTCGGCGGCGGCATCGCGGGCGTCACTTGTGCGGA
GCAGTTGGCTACTCACTTTCCATCGGAAGAGATTCTCTTGGTAACAGCTTCTCCTGTTAT
TAAAGCAGTTACAAATTTCAAGCAGATTTCTAAAATATTGGAAGAATTCGATGTTGAAGA
ACAATCAAGTACCATGTTAGGAAAACGCTTTCCCAACATTAAGGTTATAGAATCTGGCGT
AAAGCAACTGAAGAGTGAAGAACACTGCATTGTAACAGAAGATGGCAATCAGCACGTATA
TAAGAAACTCTGTCTGTGTGCTGGAGCTAAACCAAAGTTGATATGTGAAGGAAATCCTTA
TGTATTAGGAATCCGTGATACAGACAGTGCTCAGGAATTTCAGAAACAGCTTACTAAAGC
TAAAAGAATAATGATCATAGGGAACGGTGGTATTGCACTTGAGTTAGTGTATGAAATTGA
AGGCTGTGAAGTGATTTGGGCCATTAAAGATAAAGCTATAGGGAATACTTTCTTCGATGC
AGGAGCAGCTGACATCTTGACTTCAAAGCTCATTGCTGAAAAATCAGAGGCTAAAATTGC
ACATAAAAGAACCTGATATACTACTGAAGGCAGGGACAAAGGAAGCTAGTACGCANATCT
AAAGCAGATAATGTAGGACGTGCATTTGGACCGCACTGCATGACGGCTTGATCTTACAGA
ACTAAAGAGTTCTCATACGATCACTTTGAACTTGTGTGAGTAAAGAGATCTACCTCNNGA
TGAGTTAGATTTGAGAGCAGCCTCCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024854 unedited
NCTTTCTATGNNACCGCGGCCGCATTTCTANGATCGAGTTTTTTTTTTTTTTTTTTGTAG
GCTGAATCGTCTCAAACTTGTCATTCTGAACAAGGTGATAAAAAGATGGAGGAAAAAAAT
CAGGCAACTTCCAGAAGAAGGCTGCAAACATGCTTCAGCAATCTGGTTCTAAGAATACAG
GAGCTAAGAAAAGAAAAATCGATGATGCCTGATATGAATGTTACTAAATTTTCTAATTAA
AGATGGTTTATGCATGTATATGCCATTATTTTTGTAGTTAGACAATAGTTTTTAAAAGAA
TTTCATAGATATTTTATATGTATGGATCTATATTTTCAGAGCTTATCTCTGAAGATCTAA
ACTTTTGAGAATGTTTGAAAATTAGAGATCATGAATTATATAATTTTCCAGTATAAAACA
AGGGAAAAATTTTTATGTAAAACCCTTTAAATGTAAAATATTTGAGAATAAGTTCATACA
ATCGTCTTAAGTTTTTTATGCCTTTATATACTTAGCTATATTTTTTCTTTTGACATAACT
ATCTTTTTGAAAGCAATATTATACTGACAGAGGCTCACTGAGTGATACTTTAAGTTAAAT
ATGTAGATCAAGGATGTCCAATCTTTTGGCTTCCCTGAGCCACATTGGAAGAAGAATTGT
CTTGGGCCGCACATAAAATATGCTAACACTGATGATAGCTGATGAGCTTAAAAAAAAAAT
TGCAAGAAAAATCTCATGTTTTAAGAAAGTTTACAAAAAATGTAAATATTTGAGAAATAG
TTCATGTAAATTGTCCTAAGTTTTTTATGCCTTTATATACTTAGCTATATTTNTTTCTTT
TGACATAACCCATCTTTTTGAAAGCAATATTATACTGACAGAGGGTCACTGAGTGATACT
TTAAGTAAATATGTAGATAGGGATGTCCAATCTTTTGGCTTCCTGAGCCCCATGGNAGAA
GAATGTCTTGGCCC

Restriction Sites: NotI-NotI

ACCN: NM_024854

Insert Size: 3490 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_024854.2, NP_079130.2

RefSeq Size: 3171 bp

RefSeq ORF: 1503 bp

Locus ID: 79912

UniProt ID: Q8WU10

Cytogenetics: 12p12.1

Domains: pyr_redox

Protein Families: Druggable Genome

Gene Summary: This gene encodes a nuclear-cytoplasmic pyridine nucleotide-disulphide reductase (PNDR). PNDRs are flavoproteins that catalyze the pyridine nucleotide-dependent reduction of thiol residues in other proteins. The encoded protein belongs to the class I pyridine nucleotide-disulphide oxidoreductase family but lacks the C-terminal dimerization domain found in other family members and instead has a C-terminal nitrile reductase domain. It localizes to the nucleus and to striated sarcomeric compartments. Naturally occurring mutations in this gene cause early-onset myopathy with internalized nuclei and myofibrillar disorganization. A pseudogene of this gene has been defined on chromosome 11. [provided by RefSeq, Apr 2017]
Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.