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Product datasheet for SC108419

Adrenodoxin (FDX1) (NM_004109) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adrenodoxin (FDX1) (NM_004109) Human Untagged Clone
Tag:	Tag Free
Symbol:	Adrenodoxin
Synonyms:	ADX; FDX; LOH11CR1D
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC108419 sequence for NM_004109 edited (data generated by NextGen Sequencing)

```
ATGGCTGCCGCTGGGGGCGCCCGGCTGCTGCGCGCCGCTTCTGCTGTCCTCGGCGGCCCG
GCCGGCCGGTGGCTGCACCACGCTGGGTCCCGCGCTGGATCCAGCGGCCTGCTGAGGAAC
CGGGGGCCGGGCGGGAGCGCGGAGGCGAGCCGGTCGCTGAGCGTGTCGGCGCGGGCCCGG
AGCAGCTCAGAAGATAAAATAACAGTCCACTTTATAAACCGTGATGGTGAAACATTAACA
ACCAAAGGAAAAGTTGGTGATTCTCTGCTAGATGTTGTGGTTGAAAATAATCTAGATATT
GATGGCTTTGGTGCATGTGAGGGAACCCTGGCTTGTTCAACCTGTCACCTCATCTTTGAA
GATCACATATATGAGAAGTTAGATGCAATCACTGATGAGGAGAATGACATGCTCGATCTG
GCATATGGACTAACAGACAGATCACGGTTGGGCTGCCAAATCTGTTTGACAAAATCTATG
GACAATATGACTGTTCGAGTGCCTGAAACAGTGGCTGATGCCAGACAATCCATTGATGTG
GGCAAGACCTCCTGA

Clone variation with respect to NM_004109.4
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5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_004109 unedited
GCACGAGGGGTGCTTCCAGCAGGTCTCTCCGCCACTCCAGCCCCGCGCCCCTCGCCGCGG
CCCTCGGGCGTCTGCGCCGCAGCTGCCGCCCCCGCCTCTTTGGAGTCTCTCGCGGCCTCA
AAGCGCGGCCTGCGTCGCTTCCGGCAGTTCCCGACCGCGGGCGATGGCTGCCGCTGGGGG
CGCCCGGCTGCTGCGCGCCGCTTCTGCTGTCCTCGGCGGCCCGGCCGGCCGGTGGCTGCA
CCACGCTGGGTCCCGCGCTGGATCCAGCGGCCTGCTGAGGAACCGGGGGCCGGGCGGGAG
CGCGGAGGCGAGCCGGTCGCTGAGCGTGTCGGCGCGGGCCCGGAGCAGCTCAGAAGATAA
AATAACAGTCCACTTTATAAACCGTGATGGTGAAACATTAACAACCAAAGGAAAAGTTGG
TGATTCTCTGCTAGATGTTGTGGTTGAAAATAATCTAGATATTGATGGCTTTGGTGCATG
TGAGGGAACCCTGGCTTGTTCAACCTGTCACCTCATCTTTGAAGATCACATATATGAGAA
GTTAGAT
```

View online »

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004109 unedited
GCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAACTTTTATGAATTTATTTAT
AGTAAAGATAAGAGTACGAATGTCTTCCACACATACGTGGTAATCTGTGGTGCTTGCCAC
TCCCTCACTCCTGGGACTGACACACTGCAGCCCACGCTGCTCACCCTGCAGCCCCATCCT
TGCGTGAGAGAATGGCGCCACCTGGGGCTGTGCAACGTGTCAGCCTGCTCATTCCCTTCT
CCAGCTCAGGACAGAGAAACACAATTCATTCATAAGGTTTCCATTCTGTTATAGGCAGAG
ATTTATAAATCAGCATTATTTTTCAAAGAGTACAAAGTTAAACCATTCTGCTTAGAAAAG
AATAAACACATCCAATCATTTTTCCTCTAGTTTAGTCAAAACAGAGATCAAACTTCTTTG
ATAGCATTATAATGTCTACGTCCAGACTTAGTCTTCCGAATCAAAATTTTGAAATATTTA
TTTATAAGGTCAATAACTATCTTTGAAGTTAAGCAGTTTACTGAGCAATTAAATATTTTT
GTCCATACACATTCAGATTTAACTACTACTATAAATAAAATAGTCATAATTTCTCCAGTT
TCAGTCTGAACACATAGCTTATAGGAATAAGACACAGGTTCTAGCACAGATTTTCTAATT
AGTGGTATGGCCCTAAACAAGCCAGGTTAGATCTCTGCCTTCACCCCATCAAACAGGAAA
TATANTATATTTCCTTAACCTATCTCCTAGGTAACAGATGAGATTATATGAAACATTTTG
CTAAAGTCGCTAACCAACCTCAGAAAAAATTTGGAGGTTTTTCTATACATTACTATTTTT
ATATTTGATGACATTTTGTATATACCAAATAAAATGCTACTTCAGATGACAATTCAGAGC
TTCGCAGGGATTAAAAGGAAGCTGTCCTATTGAGTCCATCATCTG

Restriction Sites: NotI-NotI

ACCN: NM_004109

Insert Size: 1730 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_004109.3, NP_004100.1

RefSeq Size: 3236 bp

RefSeq ORF: 555 bp

Locus ID: 2230

UniProt ID: P10109

Cytogenetics: 11q22.3

Domains: fer2

Gene Summary: This gene encodes a small iron-sulfur protein that transfers electrons from NADPH through ferredoxin reductase to mitochondrial cytochrome P450, involved in steroid, vitamin D, and bile acid metabolism. Pseudogenes of this functional gene are found on chromosomes 20 and 21. [provided by RefSeq, Aug 2011]