

## **Product datasheet for RC201647**

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## Adrenodoxin (FDX1) (NM\_004109) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: Adrenodoxin (FDX1) (NM\_004109) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: Adrenodoxin

Synonyms: ADX; FDX; LOH11CR1D

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC201647 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC201647 protein sequence

Red=Cloning site Green=Tags(s)

 ${\tt MAAAGGARLLRAASAVLGGPAGRWLHHAGSRAGSSGLLRNRGPGGSAEASRSLSVSARARSSSEDKITVHFINRDGETLTTKGKVGDSLLDVVVENNLDIDGFGACEGTLACSTCHLIFEDHIYEKLDAITDEENDMLDL}$ 

AYGLTDRSRLGCQICLTKSMDNMTVRVPETVADARQSIDVGKTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk6032">https://cdn.origene.com/chromatograms/mk6032</a> d01.zip





**Restriction Sites:** 

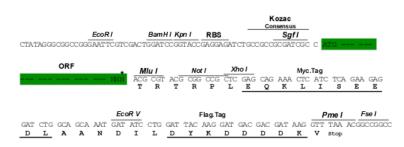
Sgfl-Mlul

**Cloning Scheme:** 

Cloning sites used for ORF Shuttling:

Sgf I ORF Miu I

--- GCGATCGC C ATG ---//--- NIX ACG CGT ---



<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_004109

ORF Size: 552 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

**RefSeq:** <u>NM 004109.5</u>

**RefSeq Size:** 3155 bp **RefSeq ORF:** 555 bp



MW:

**Locus ID:** 2230

UniProt ID: P10109

Cytogenetics: 11q22.3

19.4 kDa

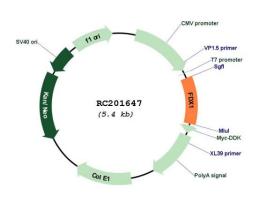
Domains: fer2

Gene Summary: This gene encodes a small iron-sulfur protein that transfers electrons from NADPH through

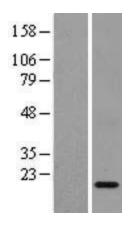
ferredoxin reductase to mitochondrial cytochrome P450, involved in steroid, vitamin D, and bile acid metabolism. Pseudogenes of this functional gene are found on chromosomes 20

and 21. [provided by RefSeq, Aug 2011]

## **Product images:**

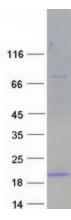


Circular map for RC201647



Western blot validation of overexpression lysate (Cat# [LY401330]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201647 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified FDX1 protein (Cat# [TP301647]). The protein was produced from HEK293T cells transfected with FDX1 cDNA clone (Cat# RC201647) using MegaTran 2.0 (Cat# [TT210002]).