

## Product datasheet for **RC200363**

### Ferredoxin Reductase (FDXR) (NM\_024417) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ferredoxin Reductase (FDXR) (NM_024417) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FDXR
Synonyms:	ADR; ADXR; ANOA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC200363 representing NM\_024417  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTTCGCGCTGCTGGCGCTGGTGGGGCTGGTGGCGTGGCCTCGGACCCGGCTGCCTCCCGCCGGGA  
 GCACCCCGAGCTTCTGCCACATTTCTCCACACAGGAGAAGACCCCCAGATCTGTGTGGTGGGCAGTGG  
 CCCAGCTGGCTTCTACACGGCCAAACACCTGCTAAAGCACCCCAAGGCCACGTGGACATCTACGAGAAA  
 CAGCCTGTGCCCTTTGGCCTGGTGCCTTTGGTGTGGCGCTGATCACCCGAGGTGAAGAATGTATCA  
 ACACATTTACCCAGACGGCCATTCTGGCCGCTGTGCCTTCTGGGCAACGTGGAGGTGGGCAGGGACGT  
 GACGGTCCGGAGCTGCGGGAGGCTACCACGCTGTGGTGTGAGCTACGGGGCAGAGGACCATCGGGCC  
 CTGGAAATTCCTGGTGAAGGCTGCCAGGTGTGTCTCCGCCGGCCTTCGTGGCTGGTACAACGGGC  
 TTCTGAGAACAGGAGCTGGAGCCAGACTGAGCTGTGACACAGCCGTGATTCTGGGGCAGGGAACTGT  
 GGCTCTGGACGTGGCCGCATCCTACTGACCCACCTGAGCACCTGGAGAGAACGGACATCACGAAGGCA  
 GCCTGGGTGACTGAGGCAGAGTCGAGTGAAGACAGTGTGGCTAGTGGCCGGCGTGGACCCCTGCAAG  
 TGGCCTTACCATTAAAGGAGCTTCGGGAGATGATTGATTACCGGGAGCCCGGCCCATTTTGGATCCTGT  
 GGATTTCTTGGTCTCCAGGACAAGATCAAGGAGTCCCCGCCCGAGGAAGCGGCTGACGGAAGTCTGT  
 CTTGCAACGGCCACAGAGAAGCCAGGGCCGGCGGAAGTGCCTCCGAGGATCGGCTCCCGTGCCTGGG  
 GCCTCCGCTTTTCCGAAGCCCCAGCAGGTGTGCCCTCACCAGATGGCGGGCGGGCAGCAGGTGTCCG  
 CCTAGCAGTCACTAGACTGGAGGTGTGATGAGGCCACCCGTGCAGTGGCCACGGGAGACATGGAAGAC  
 CTCCCTTGTGGGCTGGTGTGCTCAGCAGCATTGGGTATAAGAGCCGCCCTGTCGACCAAGCGTGCCTTTG  
 ACTCCAAGCTTGGGGTCACTCCCAATGTGGAGGGCCGGTTATGGATGTGCCAGGCTCTACTGACCGG  
 CTGGGTGAAGAGAGGACCTACAGGTGTCATAGCCACAACCATGACTGACAGCTTCCCTACCGGCCAGATG  
 CTGCTGACAGGACCTGAAGGCTGGTTGCTCCCCTCTGGCCCCAGGCTGGCTACGACGACATCCAGGCC  
 TGCTCAGCAGCCGAGGGTCCGGCCAGTCTTTTCTCAGACTGGGAGAAGCTGGATGCCAGGAGGTGGC  
 CCGGGGCCAGGGCACGGGAAGCCAGGGAGAAGTGGTGGATCCTCAGGAGATGCTGCGCTCCTGGGC  
 CAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC200363 representing NM\_024417  
 Red=Cloning site Green=Tags(s)

MASRCWRWWGSAWPRTRLPPAGSTPSFCHHFSTQEKTPQICVVGSGPAGFYTAQHLLKHPQAHVDIYEK  
 QPVPFGLVRFVAPDHPEVKNVINTFTQTAHSGRCAFVGNVEVGRDVTVPELREAYHAVVLSYGAEDHRA  
 LEIPGEELPGVCSARAFVWYNGLPENQLEPDLSCDTAVILGQGNVALDVARILLTPPEHLERTDITKA  
 ALGVLRSRVKTVLWVRRGRLQVAFTIKELREMIQLPGARPIILDPVDFLGLQDKIKEVPRPRKRLTELL  
 LRTATEKPGPAEAAARQASASRAWGLRFRSPQQLPSPDGRRAAGVRLAVTRLEGVDEATRAVPTGDMED  
 LPCGLVLSIGYKSRPVDPSVPFDSKLGVIPNVEGRVMDVPGLYCSGWVKRGPTGVIATTMTDSFLTGQM  
 LLQDLKAGLLPSGPRPGYAAIQALLSSRGVRPVSFSDWEKLDAAEVARGQGTGKPREKLVDPQEMLRLLG  
 H

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg2642\\_h08.zip](https://cdn.origene.com/chromatograms/mg2642_h08.zip)

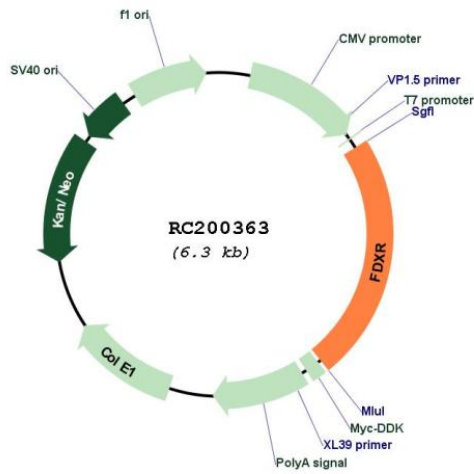
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:

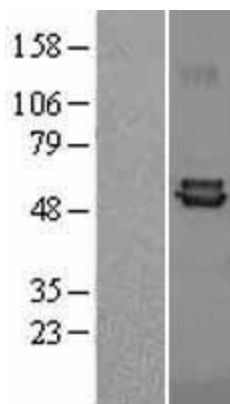


ACCN:

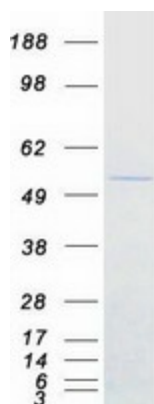
NM\_024417

<b>ORF Size:</b>	1473 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_024417.3</a>
<b>RefSeq Size:</b>	1918 bp
<b>RefSeq ORF:</b>	1476 bp
<b>Locus ID:</b>	2232
<b>UniProt ID:</b>	<a href="#">P22570</a>
<b>Cytogenetics:</b>	17q25.1
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	49.9 kDa
<b>Gene Summary:</b>	This gene encodes a mitochondrial flavoprotein that initiates electron transport for cytochromes P450 receiving electrons from NADPH. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Apr 2012]

## Product images:



Western blot validation of overexpression lysate (Cat# [LY402986]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200363 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FDXR protein (Cat# [TP300363]). The protein was produced from HEK293T cells transfected with FDXR cDNA clone (Cat# RC200363) using MegaTran 2.0 (Cat# [TT210002]).