

Product datasheet for **RC234369**

Ferredoxin Reductase (FDXR) (NM_001258012) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ferredoxin Reductase (FDXR) (NM_001258012) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ferredoxin Reductase
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:

>RC234369 representing NM_001258012
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTCGCGCTGCTGGCGCTGGTGGGGCTGGTGGCGTGGCCTCGGACCCGGCTGCCTCCCGCCGGGA
 GCACCCCGAGCTTCTGCCACCATTCTCCACACAGGAGAAGACCCCCAGATCTGTGTGGTGGGCGAGTGG
 CCCAGCTGGCTTCTACACGGCCCAACACCTGCTAAAGAGGGTGAAGCCTTGTGTCTCAGCCCAGGGTCT
 CTGAACCTCCTGCTCTGTCTGGGAAGGGGAGGACCTGGGGCGTCCCAGCCTCTCTCTCGACCCCA
 CCAGCTGCCACCCTGTTCCCGCAGCAGCCCCAGGCCACGTGGACATCTACGAGAAACAGCCTGTGCC
 CTTTGGCCTGGTGCCTTTGGTGTGGCGCTGATACCCCGAGGTGAAGAATGTCATCAACACATTTACC
 CAGACGGCCATTCTGGCCGCTGTGCCTTCTGGGGCAACGTGGAGGTGGGAGGGACGTGACGGTCCGG
 AGCTGCGGGAGGCTACACGCTGTGGTGTGAGCTACGGGGCAGAGGACCATCGGGCCCTGGAAATTC
 TGGTGAGGAGCTGCCAGGTGTGCTCCGCCCGGCCCTTCGTGGGCTGGTACAACGGGCTTCTGAGAAC
 CAGGAGCTGGAGCCAGACCTGAGCTGTGACACAGCCGTGATTCTGGGGCAGGGGAACGTGGCTCTGGACG
 TGGCCCGCATCCTACTGACCCACCTGAGCACCTGGAGAGAACGGACATCACGAAGGCAGCCCTGGGTGT
 ACTGAGGCAGAGTCGAGTGAAGACAGTGTGGCTAGTGGGCCGGCTGGACCCCTGCAAGTGGCCTTACC
 ATTAAGGAGCTTCGGGAGATGATTCAGTTACCGGGAGCCCGGCCATTTTGGATCCTGTGGATTTCTTGG
 GTCTCCAGGACAAGATCAAGGAGGTCCCGCCCGGAGGAAGCGGCTGACGGAAGTGTGCTTGAACGGC
 CACAGAGAAGCCAGGGCCGGCGGAAGCTGCCCGCCAGGCATCGGCCTCCCGTGCCTGGGGCTCCGCTTT
 TCCGAAGCCCCAGCAGGTGCTGCCCTACCAGATGGGCGCGGGCAGCAGGTGTCCGCTAGCAGTCA
 CTAGACTGGAGGGTGTGATGAGGCCACCCGTGCAGTGGCCACGGGAGACATGGAAGACCTCCCTGTGG
 GCTGGTGTCTCAGCAGCATTGGGTATAAGAGCCCGCCTGTGACCCAAGCGTGCCTTTGACTCCAAGCTT
 GGGGTATCCCCAATGTGGAGGGCCGGTTATGGATGTGCCAGGCCTCTACTGCAGCGGCTGGGTGAAGA
 GAGGACCTACAGGTGTATAGCCACAACCATGACTGACAGCTTCTCACCAGCCAGATGTGCTGCAGGA
 CCTGAAGGCTGGTTGCTCCCTCTGGCCCCAGGCCTGGCTACGCAGCCATCCAGGCCCTGCTCAGCAGC
 CGAGGGTCCGGCCAGTCTTTTCTCAGACTGGGAGAAGCTGGATGCCGAGGAGGTGGCCCCGGGCCAGG
 GCACGGGAAGCCAGGGAGAAGCTGGTGGATCCTCAGGAGATGCTGCGCCTCTGGGCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234369 representing NM_001258012
 Red=Cloning site Green=Tags(s)

MASRCRWWGWSAWPRTRLPPAGSTPSFCHHFSTQEKPQICVVGSGPAGFYTAQHLLKRVEALCSQPRV
 LNSPALSGEGEDLGASQPLSLDPTSCHVPVQHPQAHVDIYEKQVPVFLVRFVAPDHPEVKNVINTFT
 QTAHSGRCAFWGNVEVGRDVTVPPELREAYHAVVLSYGAEDHRALEIPGEELPGVCSARAFVWYNGLPEN
 QELEPDLSCDTAVILGQGNVALDVARILLTPPEHLERTDITKAALGVLQRQSRVKTIVLVGRRGPLQVAF
 IKELREMIQLPGARPILDVDFLGLQDKIKEVPRPRKRLTELLLRATEKPGPAEAAARQASASRAWGLRF
 FRSPQQVLPSPDGRRAAGVRLAVTRLEGVDEATRAVPTGDMEDLPCGLVLSISIGYKSRPVDPSVPFDSKL
 GVIPNVEGRVMDVPLYCSGWVVRGPTGVIATMTDSFLTQMLLQDLKAGLLPSGPRPGYAAIQALLSS
 RGVRPVSFSDWEKLDAAEVARGQGTGKPREKLVDPQEMLRLLGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001258012

ORF Size: 1602 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.

RefSeq: [NM_001258012.2](#), [NP_001244941.1](#)

RefSeq Size: 2029 bp

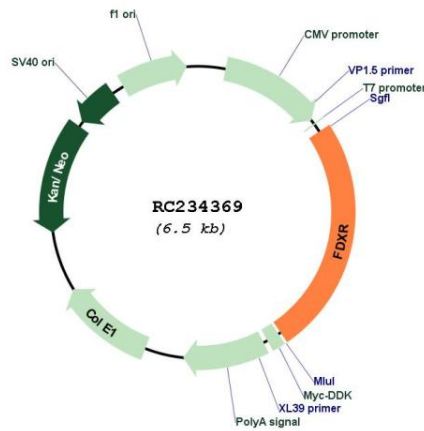
RefSeq ORF: 1605 bp

Locus ID: 2232

UniProt ID: [P22570](#)

Cytogenetics: 17q25.1
Protein Families: Druggable Genome
MW: 58.8 kDa
Gene Summary: 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:



Circular map for RC234369