

Product datasheet for **RC234100**

Ferredoxin Reductase (FDXR) (NM_001258016) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ferredoxin Reductase (FDXR) (NM_001258016) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC234100 representing NM_001258016
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAAGATAAGGACAGAGACACCCCCAGGCCACGTGGACATCTACGAGAAACAGCCTGTGCCCTTTG
 GCCTGGTGCCTTTGGTGTGGCGCTGATCACCCGAGGTGAAGAATGTCATCAACACATTTACCCAGAC
 GGCCATTCTGGCCGCTGTGCCTTCTGGGGCAACGTGGAGGTGGGAGGACGTGACGGTCCCGGAGCTG
 CGGGAGGCTACACGCTGTGGTGTGAGCTACGGGGCAGAGGACCATCGGGCCCTGAAATTCCTGGTG
 AGGAGCTGCCAGGTGTGTCTCCGCCGGGCTTCGTGGGCTGGTACAACGGGCTTCTGAGAACCAGGA
 GCTGGAGCCAGACCTGAGCTGTGACACAGCCGTGATTCTGGGGCAGGGGAACGTGGCTCTGGACGTGCC
 CGCATCTACTGACCCACCTGAGCACCTGGAGAGAACGGACATCACGAAGGCAGCCCTGGGTGTACTGA
 GGCAGAGTCGAGTGAAGACAGTGTGGCTAGTGGCCGGCGTGGACCCCTGCAAGTGGCCTTACCATTAA
 GGAGCTTCGGGAGATGATTCAGTTACCGGGAGCCCGGCCATTTGGATCCTGTGGATTTCTTGGGTCTC
 CAGGACAAGATCAAGGAGTCCCCCGCCGAGGAAGCGGCTGACGGAACCTGCTGCTCGAACGGCCACAG
 AGAAGCCAGGGCCGGCGGAAGCTGCCCGCCAGGCATCGGCCTCCCGTGCCTGGGGCTCCGCTTTTTCCG
 AAGCCCCAGCAGGTGCTGCCCTACCAGATGGGCGGGCGGACAGGTGTCCGCCTAGCAGTACTAGA
 CTGGAGGGTGTGATGAGGCCACCCGTGACGTGCCACGGGAGACATGGAAGACCTCCCTTGTGGGTGG
 TGCTCAGCAGCATTGGGTATAAGAGCCGCCCTGTGACCCAAGCGTGCCTTTGACTCCAAGCTTGGGGT
 CATCCCCAATGTGGAGGGCCGGTTATGGATGTGCCAGGCCTCTACTGCAGCGGCTGGGTGAAGAGAGGA
 CCTACAGGTGTCATAGCCACAACCATGACTGACAGCTTCTCACCGCCAGATGCTGTGACAGACCTGA
 AGGCTGGGTTGCTCCCTCTGGCCCAGGCCTGGCTACGCAGCCATCCAGGCCCTGCTCAGCAGCCGAGG
 GGTCCGGCCAGTCTCTTCTCAGACTGGGAGAAGCTGGATGCCGAGGAGGTGGCCCGGGGCCAGGGCACG
 GGAAGCCAGGGAGAAGCTGGTGGATCCTCAGGAGATGCTGCGCCTCCTGGGCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234100 representing NM_001258016
 Red=Cloning site Green=Tags(s)

MEDKDREHPQAHVDIYEKQPVFGLVRFVAPDHPEVKNVINTFTQTAHSGRCAFVGNVEVGRDVTVPEL
 REAYHAVVL SYGAEDHRALEIPGEELPGVCSARAFVWYNGLPENQELEPDLSCDTAVILGQGNVALDVA
 RILLTPPEHLERTDITKAALGVLRSRVKTVWL VRRGPLQVAFTIKELREMIQLPGARPILDPVDFLGL
 QDKIKEVPRPRKRLTELLLRATEKPGPAEAARQASASRAWGLRFRSPQQVLPSPDGRRAAGVRLAVTR
 LEGVDEATRAVPTGDMEDLPCGLVLSISIGYKSRVPDPSVPFDSKLGVIPNVEGRVMDVPGLYCSGWVKRG
 PTGVIATTMTDSFLTGMQLLQDLKAGLLPSGPRPGYAAIQALLSSRGVPRVPSFSDWEKLDAAEVARGQGT
 GKPREKLVDPQEMLRLLGH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001258016

ORF Size: 1317 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_001258016.2](#), [NP_001244945.1](#)

RefSeq Size: 1845 bp

RefSeq ORF: 1320 bp

Locus ID: 2232

UniProt ID: [P22570](#)

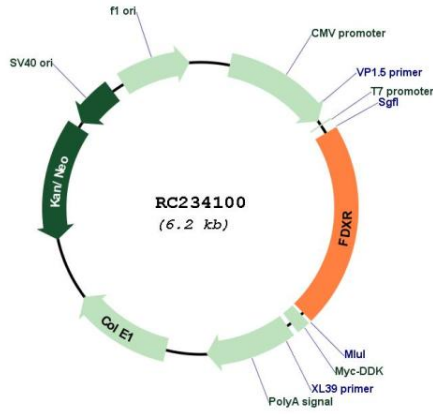
Cytogenetics: 17q25.1

Protein Families: Druggable Genome

MW: 48.5 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 RC234100