

Product datasheet for **RG234100**

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:	TurboGFP
Symbol:	Ferredoxin Reductase
Synonyms:	ADR; ADXR; ANOA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG234100 representing NM_001258016 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGATAAGGACAGAGAGCACCCCCAGGCCACGTGGACATCTACGAGAAACAGCCTGTGCCCTTTG
GCCTGGTGCCTTTGGTGTGGCGCTGATCACCCGAGGTGAAGAATGTCATCAACACATTTACCCAGAC
GGCCATTCTGGCCGCTGTGCCTTCTGGGGCAACGTGGAGGTGGGACGGACGTGACGGTCCGGAGCTG
CGGGAGGCTACCACGCTGTGGTGTGAGTACGGGGCAGAGGACCATCGGGCCCTGAAATTCCTGGT
AGGAGCTGCCAGGTGTGTCTCCGCCCGGCCCTTCGTGGGCTGGTACAACGGGCTTCCTGAGAACCAGGA
GCTGGAGCCAGACCTGAGCTGTGACACAGCCGTGATTCTGGGGCAGGGGAACGTGGCTCTGGACGTGCC
CGCATCCTACTGACCCACCTGAGCACCTGGAGAGAACGGACATCACGAAGGCAGCCCTGGGTGACTGA
GGCAGAGTCGAGTGAAGACAGTGTGGCTAGTGGCCGGCGTGGACCCCTGCAAGTGGCCTTACCATTAA
GGAGCTTCGGGAGATGATTACAGTTACGGGGAGCCCGCCATTTTGGATCCTGTGGATTTCTTGGGTCTC
CAGGACAAGATCAAGGAGGTCCCCGCCCCGAGGAAGCGGCTGACGGAAGTGTGCTTCGAACGGCCACAG
AGAAGCCAGGGCCGGCGGAAGCTGCCCGCCAGGCATCGGCCTCCCGTGCCTGGGGCTCCGCTTTTCCG
AAGCCCCAGCAGGTGCTGCCCTACCAGATGGGCGCGGGCAGCAGGTGTCCGCTAGCAGTCACTAGA
CTGGAGGTGTCGATGAGGCCACCCGTGCAGTGCCACGGGAGACATGGAAGACCTCCCTTGTGGGCTGG
TGCTCAGCAGCATTGGGTATAAGAGCCGCTGTGACCCAAAGCGTGCCTTTGACTCCAAGCTTGGGGT
CATCCCCAATGTGGAGGGCCGGTTATGGATGTGCCAGGCCTCTACTGCAGCGGCTGGGTGAAGAGAGGA
CCTACAGGTGTATAGCCACAACCATGACTGACAGCTTCTCACCAGCCAGATGCTGCTGCAGGACCTGA
AGGCTGGTGTCTCCCTCTGGCCCCAGGCCTGGCTACGCAGCCATCCAGGCCCTGCTCAGCAGCCGAGG
GGTCCGGCCAGTCTTTTCTCAGACTGGGAGAAGCTGGATGCCGAGGAGGTGGCCCGGGCCAGGGCAGC
GGGAAGCCAGGGAGAAGCTGGTGGATCCTCAGGAGATGCTGCGCCTCCTGGGCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG234100 representing NM_001258016
Red=Cloning site Green=Tags(s)

MEDKDREHPQAHVDIYEKQVPVFGVLRFGVAPDHPEVKNVINTFTQTAHSGRCFAFWGNVEVGRDVTVP
 REAYHAVVLSYGAEDHRALEIPGEELPGVCSARAFVWYNGLPENQELEPDLSCDTAVILGQGNVALDVA
 RILLTPPEHLERTDITKAALGVLQRQSRVKTWLVGRRGPLQVAFTIKELREMIQLPGARPILDPVDFLGL
 QDKIKEVPRPRKRLTELLRLTATEKPGPAEAAARQASASRAWGLRFRSPQQVLPSPDGRRAAGVRLAVTR
 LEGVDEATRAVPTGDMEDLPCGLVLSISIGYKSRPVDPSVPFDSKLGVIPNVEGRVMDVPGLYCSGWVKRG
 PTGVIATTMTDSFLTGQMLLQDLKAGLLPSGPRPGYAAIQALLSSRGVPRVPSFSDWEKLDAAEEVARGQGT
 GKPREKLVDPQEMLRLLGH

TRTRPLE - GFP Tag - V

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

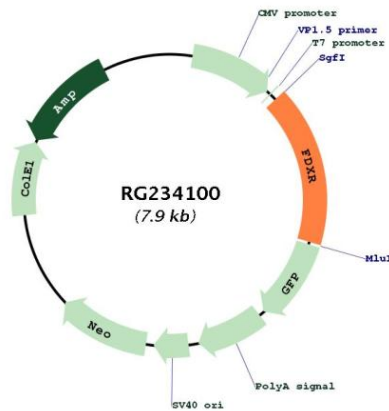
UniProt ID: [P22570](#)

Cytogenetics: 17q25.1

Protein Families: Druggable Genome

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 RG234100