

Product datasheet for **RG234349**

Ferredoxin Reductase (FDXR) (NM_001258013) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ferredoxin Reductase (FDXR) (NM_001258013) 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)



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ORF Nucleotide Sequence:

>RG234349 representing NM_001258013
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTCGCGCTGCTGGCGCTGGTGGGGCTGGTGGCGTGGCCTCGGACCCGGCTGCCTCCCGCCGGGA
 GCACCCCGACCTTTGGGGTTCAGATGAAGTAAGAGACCCTGCAAATGCCAAAGCCTTGAGGAACAAGAG
 AAGGAGGATGCAGGTGAGGGTGAAGCTTGGGAAGTCCAGCTTCTGTTGGATATTCAGGAGAAGACCCCC
 CAGATCTGTGTGGTGGGAGTGGCCAGCTGGCTTCTACACGGCCCAACACCTGTAAAGACCCCCAGG
 CCCACGTGGACATCTACGAGAAACAGCCTGTGCCCTTTGGCTGGTGGCCTTTGGTGTGGCGCTGATCA
 CCCCAGGTGAAGAATGTCATCAACACATTTACCCAGACGGCCATTCTGGCCGCTGTGCCTTCTGGGGC
 AACGTGGAGGTGGGACGGACGTGACGGTGGCGGAGCTGCGGGAGGCCTACCACGCTGTGGTGTGAGCT
 ACGGGGCAGAGGACCATCGGGCCCTGAAATTCCTGGTGAAGAGCTGCCAGGTGTGTCTCCGCCGGGC
 CTTCTGGGCTGGTACAACGGGCTTCTGAGAACCAGGAGCTGGAGCCAGACCTGAGCTGTGACACAGCC
 GTGATTCTGGGGCAGGGAACGTGGCTCTGGACGTGGCCCGCATCTACTGACCCACCTGAGCACCTGG
 AGAGAACGGACATCACGAAGGCAGCCCTGGGTGTACTGAGGCAGAGTCGAGTGAAGACAGTGTGGCTAGT
 GGGCCGGCGTGGACCCCTGCAAGTGGCCTTACCATTAAAGGAGCTTCGGGAGATGATTAGTTACCGGGA
 GCCCGGCCATTTTGGATCCTGTGGATTTCTTGGGTCTCCAGGACAAGATCAAGGAGGTCCCCCGCCGA
 GGAAGCGGCTGACGGAATGCTGCTTCAACCGCCACAGAGAAGCCAGGGCCGGCGGAAGCTGCCCGCCA
 GGCATCGGCTCCCGTGCCTGGGGCCTCCGCTTTTCCGAAGCCCCAGCAGGTGCTGCCCTCACCAGAT
 GGGCGGGCGGACAGGTGTCCGCTAGCAGTCACTAGACTGGAGGTGTCGATGAGGCCACCCGTCAG
 TGCCACGGGAGACATGGAAGACCTCCCTTGTGGGTGGTGTCTCAGCAGCATTGGGTATAAGAGCCGCC
 TGTGACCCCAAGCGTGCCCTTTGACTCCAAGCTTGGGGTTCATCCCAATGTGGAGGGCCGGTTATGGAT
 GTGCCAGGCTCTACTGCAGCGGCTGGGTGAAGAGAGGACCTACAGGTGTATAGCCACAACCATGACTG
 ACAGCTTCTCACCAGCCAGATGCTGCTGCAGGACCTGAAGGCTGGGTGCTCCCTCTGGCCCCAGGCC
 TGGCTACGCAGCCATCCAGGCCCTGCTCAGCAGCCGAGGGGTCCGGCCAGTCTCTTCTCAGACTGGGAG
 AAGCTGGATGCCAGGAGGTGGCCCGGGCCAGGGCACGGGAAGCCAGGGAGAAGCTGGTGGATCCTC
 AGGAGATGCTGCGCTCCTGGCCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234349 representing NM_001258013
 Red=Cloning site Green=Tags(s)

MASRCRWWGWSAWPRTRLPAGSTPTFGGSDEVDRPANAKALRNKRRRMQVRVKLGKFLQLLDIQEKTP
 QICVVGSGPAGFYTAQHLLKHPQAHVDIYEKQPVPFGLVRFVAPDHPEVKNVINTFTQTAHSGRCFAFWG
 NVEVGRDVTVPRELREAYHAVVLSYGAEDHRALEIPGEELPGVCSARAFVWYNGLPENQELEPDLSCDTA
 YILGQGNVALDVARILLTPPEHLERTDITKAALGVLQRQSRVKTWVWVGRRGLQVAFTIKELREMIQLPG
 ARPILDVDFLGLQDKIKEVPRPRKRLTELLLRATEKPGPAEAARQASASRAWGLRFRSPQQVLPSPD
 GRRRAAGVRLAVTRLEGVDEATRAVPTGDMEDLPCGLVLSISIGYKSRVPDPSVFPFDSKLGVIPNVEGRVMD
 VPGLYCSGWVWRGPTGVIATTMTDSFLTGQMLLQDLKAGLLPSGPRPGYAAIQALLSSRGVVRVPSFSDWE
 KLDAEEVARGQGTGKPREKLVDPQEMLRLLGH

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001258013

ORF Size: 1566 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_001258013.2](#), [NP_001244942.1](#)

RefSeq Size: 1993 bp

RefSeq ORF: 1569 bp

Locus ID: 2232

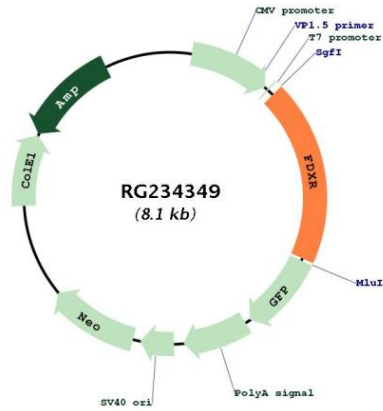
UniProt ID: [P22570](#)

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 RG234349