

## Product datasheet for **RG234139**

### Ferredoxin Reductase (FDXR) (NM\_001258015) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ferredoxin Reductase (FDXR) (NM_001258015) 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:**

>RG234139 representing NM\_001258015  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTTCGCGCTGCTGGCGCTGGTGGGCTGGTGGCGTGGCCTCGGACCCGGCTGCCTCCCGCCGGGA  
 GCACCCGAGCTTCTGCCACATTTCTCCACACAGGAGAAGACCCCCAGATCTGTGTGGTGGGAGTGG  
 CCCAGCTGGCTTCTACACGGCCCAACACCTGCTAAAGCAGCACCCCCAGGCCACGTGGACATCTACGAG  
 AAACAGCCTGTGCCCTTTGGCCTGGTGCCTTTGGTGTGGCGCCTGATCACCCGAGGTGAAGAGCTACG  
 GGGCAGAGGACCATCGGGCCCTGGAAATTCCTGGTGAAGAGTGCAGGTGTGTGCTCCGCCGGGCCTT  
 CGTGGGCTGGTACAACGGGCTTCTGAGAACCAGGAGCTGGAGCCAGACCTGAGCTGTGACACAGCCGTG  
 ATTCTGGGGCAGGGAACGTGGCTCTGGACGTGGCCGCATCCTACTGACCCACCTGAGCACCTGGAGA  
 GAACGGACATCACGAAGGCAGCCCTGGGTGTACTGAGGCAGAGTCGAGTGAAGACAGTGTGGCTAGTGGG  
 CCGGCGTGGACCCCTGCAAGTGGCCTTACCATTAAAGGAGCTTCGGGAGATGATTCAAGTACCGGGAGCC  
 CGGCCATTTTGGATCCTGTGGATTTCTTGGGTCTCCAGGACAAGATCAAGGAGGTCCCCCGCCGAGGA  
 AGCGGCTGACGGAAGTGTGCTTGAACGGCCACAGAGAAGCCAGGGCCGGCGGAAGCTGCCCGCCAGGC  
 ATCGGCCTCCCGTGCCTGGGGCCTCCGCTTTTTCCGAAGCCCCAGCAGGTGCTGCCCTCACCAGATGGG  
 CGGCGGGCAGCAGGTGTCCGCTAGCAGTCACTAGACTGGAGGTGTGATGAGGCCACCCGTGCAGTGC  
 CCACGGGAGACATGGAAGACCTCCCTTGTGGGCTGGTGTCTCAGCAGCATTGGGTATAAGAGCCGCCCTGT  
 CGACCAAGCGTGCCTTTGACTCCAAGCTTGGGTCAATCCCAATGTGGAGGGCCGGGTATGGATGTG  
 CCAGGCCTCTACTGCAGCGGCTGGTGAAGAGAGGACCTACAGGTGTATAGCCACAACCATGACTGACA  
 GCTTCTCACCGCCAGATGCTGCTGCAGGACCTGAAGGCTGGTGTGCTCCCTCTGGCCCCAGGCCTGG  
 CTACGCAGCCATCCAGGCCCTGCTCAGCAGCCGAGGGGTCCGGCCAGTCTCTTCTCAGACTGGGAGAAG  
 CTGGATGCCGAGGAGGTGGCCCGGGCCAGGCCAGGGGAAGCCAGGGAGAAGCTGGTGGATCCTCAGG  
 AGATGCTGCGCTCCTGGCCAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234139 representing NM\_001258015  
 Red=Cloning site Green=Tags(s)

MASRCRWWGWSAWPRTRLPPAGSTPSFCHHFSTQEKPQICVVGSGPAGFYTAQHLLKQHPQAHVDIYE  
 KQPVPFGLVRFVGVADHPEVKSYGAEDHRALEIPGEELPGVCSARAFVWYNGLPENQELEPDLSCDTAV  
 ILGQGNVALDVARILLTPPEHLERTDITKAALGVLRSRVKTVWLVGRRGPLQVAFTIKELREMIQLPGA  
 RPILDPVDFLGLQDKIKEVPRPRKRLTELLLRATEKPGPAEAAARQASASRAWGLRFFRSPQQVLPSPDG  
 RRAAGVRLAVTRLEGVDEATRAVPTGDMEDLPCGLVLSISIGYKSRPVDPSPVFDKSLGVIPNVEGRVMDV  
 PGLYCSGWVYKRGPTGVIATTMTDSFLTQMLLQDLKAGLLPSGPRPGYAAIQALLSSRGVPRPVVSDWEK  
 LDAEEVARGQGTGKPREKLVDPQEMLRLLGH

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001258015

**ORF Size:** 1353 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\\_001258015.3](#)

**RefSeq Size:** 1780 bp

**RefSeq ORF:** 1356 bp

**Locus ID:** 2232

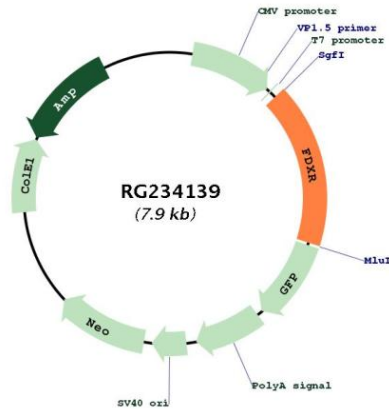
**UniProt ID:** [P22570](#)

**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 RG234139