

Product datasheet for **RG234233**

Ferredoxin Reductase (FDXR) (NM_001258014) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ferredoxin Reductase (FDXR) (NM_001258014) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG234233 representing NM_001258014
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTCGCGCTGCTGGCGCTGGTGGGGCTGGTGGCGTGGCCTCGGACCCGGCTGCCTCCCGCCGGGA
 GCACCCCGAGCTTCTGCCACATTTCTCCACACAGGAGAAGACCCCCAGATCTGTGTGGTGGGCAGTGG
 CCCAGCTGGCTTCTACACGGCCCAACACCTGCTAAAGCACCCCAAGGCCACGTGGACATCTACGAGAAA
 CAGCCTGTGCCCTTGGCCTGGTGGCCTTGGTGTGGCGCTGATCACCCGAGGTGAAGACGGCCATT
 CTGGCCGCTGTGCCTTCTGGGGCAACGTGGAGGTGGCAGGGACGTGACGGTCCCGGAGCTGCGGGAGGC
 CTACCACGCTGTGGTGTGAGCTACGGGGCAGAGGACATCGGGCCCTGGAAATTCCTGGTGAAGGAGCTG
 CCAGGTGTGTGCTCCGCCGGCCCTTCGTGGGCTGGTACAACGGGCTTCTGAGAACCAGGAGCTGGAGC
 CAGACCTGAGCTGTGACACAGCCGTGATTCGGGGCAGGGGAACGTGGCTCTGGACGTGGCCCGCATCCT
 ACTGACCCACCTGAGCACCTGGAGAGAACGGACATCACGAAGGCAGCCCTGGGTGTACTGAGGCAGAGT
 CGAGTGAAGACAGTGTGGCTAGTGGGCCGGCGTGGACCCCTGCAAGTGGCCTTACCATTAAAGGAGCTTC
 GGGAGATGATTAGTTACCGGGAGCCCGGCCATTTTGGATCCTGTGGATTTCTGGGTCTCCAGGACAA
 GATCAAGGAGGTCCCGGCCCGAGGAAGCGGTGACGGAAGTGTGCTTTCGAACGGCCACAGAGAAGCCA
 GGGCCGGCGGAAGCTGCCCGCCAGGCATCGGCCTCCCGTGCCTGGGGCTCCCGCTTTTCCGAAGCCCC
 AGCAGGTGCTGCCTCACCAGATGGGGCGGGCAGCAGGTGTCCGCCTAGCAGTCACTAGACTGGAGGG
 TGTGATGAGGCCACCCGTGAGTGGCCACGGGAGACATGGAAGACCTCCCTTGTGGGCTGGTGTGCTCAGC
 AGCATTGGGTATAAGAGCCGCCCTGTGACCCAAAGCGTGCCTTTGACTCCAAGCTTGGGGTCAATCCCA
 ATGTGGAGGGCCGGGTTATGGATGTGCCAGGCCCTACTGACGGGCTGGGTGAAGAGAGGACCTACAGG
 TGTGATAGCCACAACCATGACTGACAGCTTCTCACCGGCCAGATGCTGCTGCAGGACCTGAAGGCTGGG
 TTGCTCCCTCTGGCCCAAGCCTGGCTACGCAGCCATCCAGGCCCTGCTCAGCAGCCGAGGGGTCCGGC
 CAGTCTCTTCTCAGACTGGGAGAAGCTGGATGCCAGGAGGTGGCCCGGGCCAGGGCACGGGGAAGCC
 CAGGGAGAAGCTGGTGGATCCTCAGGAGATGCTGCGCCTCCTGGGCCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234233 representing NM_001258014
 Red=Cloning site Green=Tags(s)

MASRCRWWGWSAWPRTRLPPAGSTPSFCHHFSTQEKTPQICVVGSGPAGFYTAQHLLKHPQAHVDIYEK
 QPVPFGLVRFVAPDHPVEKTAHSGRCAFVGNVEVGRDVTPELREAYHAVVLSYGAEDHRALEIPGEEL
 PGVCSARAFVWYNGLPENQLEPDLSCDTAVILGQGNVALDVARILLTPPEHLERTDITKAALGVLRS
 RVKTVWLVGRRGPLQVAFTIKELREMIQLPGARPILDPVDFLGLQDKIKEVPRPRKRLTELLLRATEKP
 GPAAEARQASASRAWGLRFFRSPQVLPSPDGRRAAGVRLAVTRLEGVDEATRAVPTGDMEDLPCGLVLS
 SIGYKSRVPDPSVPFDSKLGVIPNVEGRVMDVPLGYSWVWKRPTGVIATTMTDSFLTGMQLLQDLKAG
 LLPSPRPGYAAIQALLSSRGVPRVPSFSDWEKLDAAEEVARQGKTGKPREKLVDPQEMLRLLGH

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001258014

ORF Size: 1449 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_001258014.2](#), [NP_001244943.1](#)

RefSeq Size: 1876 bp

RefSeq ORF: 1452 bp

Locus ID: 2232

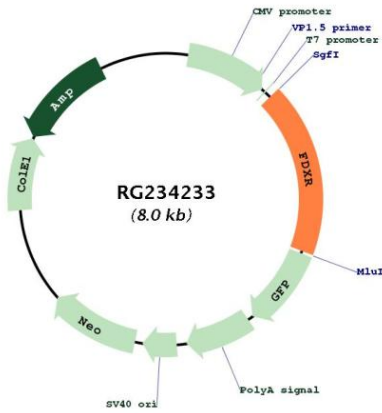
UniProt ID: [P22570](#)

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 RG234233