

Product datasheet for **RG221571**

Ferredoxin Reductase (FDXR) (NM_004110) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ferredoxin Reductase (FDXR) (NM_004110) 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:

>RG221571 representing NM_004110
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTTCGCGCTGCTGGCGCTGGTGGGCTGGTGGCGTGGCCTCGGACCCGGCTGCCTCCCGCCGGGA
 GCACCCGAGCTTCTGCCACATTTCTCCACACAGGAGAAGACCCCCAGATCTGTGTGGTGGGAGTGG
 CCCAGCTGGCTTCTACACGGCCAAACACCTGCTAAAGCACCCACAGGCCACGTGGACATCTACGAGAAA
 CAGCCTGTGCCCTTTGGCCTGGTGGCCTTTGGTGTGGCGCTGATCACCCGAGGTGAAGAATGTCATCA
 ACACATTTACCCAGACGGCCATTCTGGCCGCTGTGCCTTCTGGGCAACGTGGAGGTGGCAGGGACGT
 GACGGTCCGGAGCTGCAGGAGGCTACCACGCTGTGGTGTGAGCTACGGGCAGAGGACCATCGGGCC
 CTGGAAATTCCTGGTGGAGACTGCCAGGTGTGTCTCCGCCGGCCTTCGTGGCTGGTACAACGGGC
 TTCTGAGAACAGGAGCTGGAGCCAGACTGAGCTGTGACACAGCCGTGATTCTGGGGCAGGGAACTG
 GGCTCTGGACGTGGCCGCATCCTACTGACCCACCTGAGCACCTGGAGGCCCTCTTTTGTGCCAGAGA
 ACGGACATCACGAAGGCAGCCCTGGGTGTACTGAGGCAGAGTTCGAGTGAAGACAGTGTGGCTAGTGGCC
 GCGTGGACCCCTGCAAGTGGCCTTACCATTAAAGGAGCTTCGGGAGATGATTACGTTACCGGGAGCCCG
 GCCATTTTGGATCCTGTGGATTTCTGGGTCTCCAGGACAAGATCAAGGAGGTCCCCCGCCGAGGAAG
 CGGCTGACGGAAGTGTGCTTCGAACGGCCACAGAGAAGCCAGGGCCGGCGGAAGCTGCCCGCCAGGCAT
 CGGCCTCCCGTGCCTGGGGCCTCCGCTTTTCCGAAGCCCCAGCAGGTGCTGCCTCACCAGATGGGCG
 GCGGGCAGCAGGTGTCCGCTAGCAGTCACTAGACTGGAGGTGTCGATGAGGCCACCCGTGCAGTGCC
 ACGGGAGACATGGAAGACCTCCCTTGTGGGTGGTGTGCTCAGCAGCATTGGGATAAGAGCCGCCCTGTCG
 AGGCCTCTACTGCAGCGCTGGGTGAAGAGAGGACCTACAGGTGTCATAGCCACAACCATGACTGACAGC
 TTCTCACCAGCCAGATGCTGCTGCAGGACCTGAAGGCTGGGTTGCTCCCTCTGGCCCCAGGCCTGGCT
 ACGCAGCCATCCAGGCCCTGCTCAGCAGCCGAGGGTCCGGCCAGTCTCTTTCTCAGACTGGGAGAAGCT
 GGATGCCGAGGAGGTGGCCGGGCCAGGGCACGGGAAGCCAGGGAGAAGCTGGTGGATCCTCAGGAG
 ATGCTGCGCTCCTGGGCCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG221571 representing NM_004110
 Red=Cloning site Green=Tags(s)

MASRCRWWGWSAWPRTRLPPAGSTPSFCHHFSTQEKTPQICVVGSGPAGFYTAQHLLKHPQAHVDIYEK
 QPVVFGLVRFVAPDHPVEVKNVINTFFTQTAHSGRCAFVGNVEVGRDVTVPQLQEAAYHAVVLSYGAEDHRA
 LEIPGEELPGVCSARAFVWYNGLPENQLEPDLSCDTAVILGQGNVALDVARILLTPPEHLEALLLCQR
 TDITKAALGVLRSRVKTVWLVGRRGPLQVAFTIKELREMIQLPGARPILDVDFLGLQDKIKEVPRPRK
 RLTELLLRATEKPGPAEAARQASASRAWGLRFFRSPQQVLPSPDGRRAAGVRLAVTRLEGVDEATRAVP
 TGDMEDLPCGLVLSIGYKSRPVDSVPFDSKLGVIPNVEGRVMDVPGLYCSGWVKRPTGVIATMTDS
 FLTQMLLQDLKAGLLPSGPRPGYAAIQALLSSRGVPRVPSFSDWEKLDAAEEVARGQGTGKPREKLVDPQE
 MLRLLGH

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_004110

ORF Size: 1491 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_004110.6](#)

RefSeq Size: 1838 bp

RefSeq ORF: 1494 bp

Locus ID: 2232

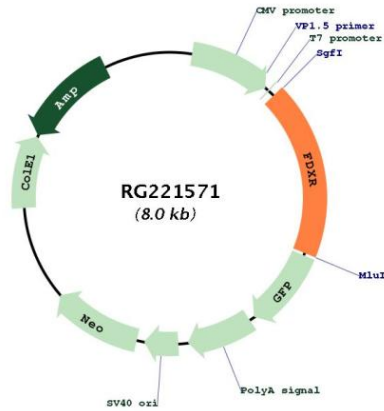
UniProt ID: [P22570](#)

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 RG221571