

Product datasheet for **RG238932**

ETFDH (NM_001281737) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ETFDH (NM_001281737) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ETFDH
Synonyms:	ETFQO; MADD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238932 representing NM_001281737.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCTGGTGCCGCTAGCCAAGCTGCTCGCTGGGAGTGAACATGGAAGGTTTGCAGAAGAAGCAGAT
GTTGTAATAGTTGGTGCAGGCCCTGCAGGGCTCTCGAGCTGTTTCGTCTAAAACAGTTGGCTGTGGCA
CATGAAAAGGACATCCGTGTGTCTAGTGGAGAAAGCTGCCAGATAGGAGCTCATACTCTCAGGG
GCTTGCCTTGATCCAGGTGCTTTTAAAGAACTCTTCCAGACTGGAAAGAGAAGGGGCTCCACTTAAC
ACTCCTGTAACAGAAGACAGATTTGGAATTTTAAACAGAGAAATACAGAATTCCTGTGCCAATTTCCA
GGGCTTCCAATGAATAATCATGGCAATTACATTGTACGCTTTGGACATTTAGTGAGCTGGATGGCGGAA
CAAGCAGAAGCCCTTGGTGTGAAGTATACCCTGGTTATGCAGCTGCTGAGGTCTTTTTTTCATGATGAT
GGTAGTGTAAAAGGAATTGCCACTAACGATGTAGGGATACAAAAGGATGGTGACCAAAGGCAACATTT
GAGAGAGGACTGGAACACATGCTAAAGTCACAATTTTTGCAGAAGTTGCCATGGACATCTAGCCAAG
CAACTATAAAGAAGTTTGATTTGAGAGCAAATTTGAACTCAAACCTACGGGATTGGACTGAAGGAG
TTATGGGTTATTGATGAAAAGAAGCTGAAAACCTGGGAGAGTAGATCACACTGTTGGTTGGCCCTTGAC
AGACATACCTATGGAGGATCTTCTCTATCATTGAATGAAGGTGAACCCCTAGTAGCTTTGGTCTT
GTGGTTGGTCTAGACTATCAGAAATCCATACCTGAGTCCATTTAGAGAGTTCCAAAGGTGGAACACCAT
CCTAGCATTTCGGCCAACCTTGAAGGTGAAAAAGGATTGCATACGGAGCCAGAGCTCTCAATGAAGGT
GGCTTTCAGTCTATACAAAACCTCACCTTCTGGTGGTTACTAATGGTTGTAGTCTGGTTTTATG
AATGTTCCCAAGTCAAAGGTAACACAGCAATGAAAAGTGAATTTTAGCAGCAGAATCTATTTTT
AATCAACTAACTAGTAAAACTCCAATCAAAGACAATAGGACTCCATGTAAGTGAATATGAGGACAAT
TTGAAGAACTCATGGGTATGAAAAGGACTATATCTGTTAGAAATATAAGACCGTCTGCCACGGGATA
CTGGGTGTATATGGAGGATGATTTACACTGGAATCTTTTACTGGATATTGAGAGGAATGGAGCCGTGG
ACTCTGAAACATAAAGGTTCTGACTTTGAAACGGCTCAAGCCAGCCAAGGATTGCACACCTATTGAGTAT
CCAAAACCCGATGGACAGATCAGTTTTGACCTCTTGTCTCTGTGGCTCTGAGTGGTACTAATCATGAA
CATGACCAGCCGGCACACTTAACCTTAAGGGATGACAGTATACCTGTAATAGAAATCTGTGATATAT
GATGGGCCGAGCAGGATTCTGTCTGCAGGAGTTTATGAATTTGTACCTGTGGAACAAGGTGATGGA
TTTCGGTTACAGATAAATGCTCAGAAGTGTGTACATTGTAACATGTGATATTAAGATCCAAGTCAG
AATATTAAGTGGTGGTACCTGAAGGTGGAGGAGACCTGCTTACAATGGAATG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238932
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MLVPLAKLSCLGVNMERFAEEADVIVGAGPAGLSAAVRLKQLAVAHEKDIRVCLVEKAAQIGAHTLSG
ACLDPGAFKELFPDWKEKGAPLNPVTEDRFGILTEKYRIPVPILPGLPMNNHGNYIVRLGHLVSWMGE
QAEALGVEVYPGYAAAEVLFHDDGSVKGIATNDVGIQKDGAPKATFERGLELHAKVTIFAEAGCHGLAK
QLYKFKDLRANCEPQTYGIGLWVIDEKNWKPGRVDHTVGVPLDRHTYGGSFYLHNEGEPLVALGL
VVGLDYQNPYLSPFREFQRWKHHPISIRPTLEGGKRIAYGARALNEGPFQSIKLTFFPGLLIGCSPGFM
NVPKIKGTHAMKSGILAAESIFNQLTSENLSKTIQLHVTEYEDNLKNSWVKELYSVRNIRPSCHGV
LGVYGGMIYTGIFYWILRGMPEWTLKHKGSDFERLKPDKDCTPIEYKPDGQISFDLLSSVALSGTNHE
HDQPAHLTLRDDSIPVNRNLSIYDGPQRFCPAGVYFVPEVQDGFRLQINAQNCVHCKTCDIKDPSQ
NINWVPEGGGPPAYNGM
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDMHFKSAIHPISILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001281737

ORF Size: 1710 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).

RefSeq: [NM_001281737.1](#), [NP_001268666.1](#)

RefSeq Size: 2255 bp

RefSeq ORF: 1713 bp

Locus ID: 2110

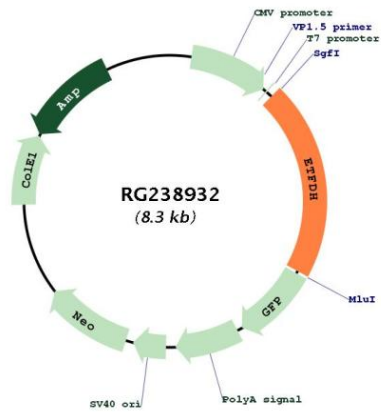
UniProt ID: [Q16134](#)

Cytogenetics: 4q32.1

MW: 63.3 kDa

Gene Summary: This gene encodes a component of the electron-transfer system in mitochondria and is essential for electron transfer from a number of mitochondrial flavin-containing dehydrogenases to the main respiratory chain. Mutations in this gene are associated with glutaric acidemia. Alternatively spliced transcript variants that encode distinct isoforms have been observed. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RG238932