

Product datasheet for **SC336826**

ETFDH (NM_001281737) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ETFDH (NM_001281737) Human Untagged Clone
Tag:	Tag Free
Symbol:	ETFDH
Synonyms:	ETFQO; MADD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC336826 representing NM_001281737.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGGTGCCGCTAGCCAAGCTGTCCTGCCTGGGAGTGAACATGAAAGGTTTGCAGAAGAAGCAGAT
GTTGTAATAGTTGGTGCAGGCCCTGCAGGCTCTCTGCAGCTGTTTCGTCTAAAACAGTTGGCTGTGGCA
CATGAAAAGGACATCCGTGTGTCTAGTGGAGAAAGCTGCCAGATAGGAGCTCATACTCTCTCAGGG
GCTTGCCTTGATCCAGGTGCTTTTAAAGAACTCTTCCAGACTGGAAAGAGAAGGGGCTCCACTTAAC
ACTCTGTAAACAGAAGACAGATTTGGAATTTTAAACAGAGAAATACAGAATTCCTGTGCCAATTTCCA
GGGCTTCCAATGAATAATCATGGCAATTACATTGTACGCTTGGGACATTTAGTGAGCTGGATGGGCGAA
CAAGCAGAAGCCCTTGGTGTGAAGTATACCCTGGTTATGCAGCTGCTGAGGTCCTTTTTTCATGATGAT
GGTAGTGTAAAAGGAATTGCCACTAACGATGTAGGGATACAAAAGGATGGTGCACCAAAGGCAACATTT
GAGAGAGGACTGGAACACATGCTAAAGTCACAATTTTTGCAGAAGGTTGCCATGGACATCTAGCCAAG
CAACTATAAAGAAGTTTGATTTGAGAGCAAATGTGAACCTCAAACCTACGGGATTGGACTGAAGGAG
TTATGGGTTATTGATGAAAAGAAGTGGAAACCTGGGAGAGTAGATCACACTGTTGGTTGGCCCTTGAC
AGACATACCTATGGAGGATCTTCTCTATCATTGAATGAAGGTGAACCCCTAGTAGCTTTGGTCTT
GTGGTTGGTCTAGACTATCAGAATCCATACCTGAGTCCATTTAGAGAGTCCAAAGGTGAAACACCAT
CCTAGCATTCCGCCAACCTTGAAGGTGAAAAAGGATTGCATACGGAGCCAGAGCTCTCAATGAAGGT
GGCTTTCAGTCTATACCAAACTCACCTTCTGGTGGTTTACTAATTGGTTGTAGTCTGGTTTTATG
AATGTTCCCAAGATCAAAGGTAACACAGCAATGAAAAGTGGAAATTTAGCAGCAGAATCTATTTTT
AATCAACTAAGTGTAAAATCTCCAATCAAAGACAATAGGACTCCATGTAAGTGAATATGAGGACAAT
TTGAAGAAGTCAAGGATGAAAAGAGCTATTTCTGTTAGAAAATAAGACCGTCTGCCACGGAGTA
CTGGGTGTATATGGAGGATGATTTACACTGGAATCTTTTACTGGATATTGAGAGGAATGGAGCCGTGG
ACTCTGAAACATAAAGGTTCTGACTTTGAAACGGCTCAAGCCAGCCAAGGATTGCACACCTATTGAGTAT
CCAAAACCGATGGACAGATCAGTTTTGACCTCTGTGATCTGTGGCTCTGAGTGGTACTAATCATGAA
CATGACCAGCCGGCACACTTAACCTTAAGGGATGACAGTATACCTGTAATAGAAATCTGTGATATAT
GATGGGCCGAGCAGGATTTCTGTCTGCAGGAGTTTATGAATTTGTACCTGTGGAACAAGGTGATGGA
TTTCGGTTACAGATAAATGCTCAGAAGTGTGTACATTGTAAAACATGTGATATTAAGATCCAAGTCAG
AATATTAAGTGGTGGTACCTGAAGGTGGAGGAGACCTGCTTACAATGGAATGTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCGCCGCGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001281737

Insert Size: 1713 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001281737.1](#)

RefSeq Size: 2255 bp

RefSeq ORF: 1713 bp

Locus ID: 2110

UniProt ID: [Q16134](#)

Cytogenetics: 4q32.1

MW: 62.8 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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. The resulting protein (isoform 2) is shorter but has the same N- and C-termini compared to isoform 1.