

Product datasheet for **SC117365**

ETFDH (NM_004453) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ETFDH (NM_004453) Human Untagged Clone
Tag:	Tag Free
Symbol:	ETFDH
Synonyms:	ETFQO; MADD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_004453, the custom clone sequence may differ by one or more nucleotides

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ATGCTGGTGCCGCTAGCCAAGCTGTCCTGCCTGGCATATCAGTGCCTTTCATGCCTTAAAAATTAAGAAAA
ATTATCTACCTCTATGTGCTACAAGATGGTCTTCAACTTCTACTGTGCCTCGAATTACTACCCATTATAC
TATTTATCCCCGGGATAAGGACAAGAGATGGGAAGGAGTGAACATGGAAAGGTTTGCAGAAGAAGCAGAT
GTTGTAATAGTTGGTGCAGGCCCTGCAGGGCTCTCTGCAGCTGTTTCGTCTAAAACAGTTGGCTGTGGCAC
ATGAAAAGGACATCCGTGTGTCTAGTGGAGAAAGCTGCCAGATAGGAGCTCATACTCTCTCAGGGGC
TTGCCTTGATCCAGGTGCTTTTAAAGAACTCTCCAGACTGGAAAGAGAAGGGGCTCCACTTAACACT
CCTGTAACAGAAGACAGATTTGGAATTTAACAGAGAAAACAGAATTCCTGTGCCAATTCCTCAGGGC
TTCCAATGAATAATCATGGCAATTACATTGTACGCTTGGGACATTTAGTGAGCTGGATGGGCGAACAAGC
AGAAGCCCTTGGTGTGAAGTATACCCTGGTTATGCAGCTGCTGAGGTCCTTTTTCATGATGATGGTAGT
GTAAAAGGAATTGCCACTAACGATGTAGGGATACAAAAGGATGGTGCACCAAAGGCAACATTTGAGAGAG
GACTGGAACACATGCTAAAGTCACAATTTTTGCAGAAGGTTGCCATGGACATCTAGCCAAGCAACTATA
TAAGAAGTTTGATTTGAGAGCAAATTTGGAACCTCAAACCTACGGGATTGGACTGAAGGAGTTATGGGTT
ATTGATGAAAAGAACTGGAACCTGGGAGAGTAGATCACACTGTTGGTTGGCCCTTGACAGACATACCT
ATGGAGGATCTTCTCTATCATTTGAATGAAGGTGAACCCCTAGTAGCTCTTGGTCTTGTGGTTGGTCT
AGACTATCAGAATCCATACCTGAGTCCATTTAGAGAGTCCAAAGGTGGAAACACCATCCTAGCATTGCG
CCAACCTTGAAGGTGGAAAAGGATTGCATACGGAGCCAGAGCTCTCAATGAAGGTGGCTTTCAGTCTA
TACCAAACTCACCTTCTCTGGTGGTTACTAATTGGTTGTAGTCTGGTTTTATGAATGTTCCCAAGAT
CAAAGTACTCACACAGCAATGAAAAGTGAATTTTAGCAGCAGAATCTATTTTTAATCAACTAAGT
GAAAACTCCAATCAAAGACAATAGGACTCCATGTAATGAATATGAGGACAATTTGAAGAACTCATGGG
TATGGAAAAGAGCTATATTCTGTTAGAAAATATAAGACCGTCTGCCACGGAGTACTGGGTGTATATGGAGG
GATGATTTACTGGAATCTTTTACTGGATATTGAGAGGAATGGAGCCGTGGACTCTGAAACATAAAGGT
TCTGACTTTGAACGGCTCAAGCCAGCCAAGGATTGCACACCTATTGAGTATCCAAAACCCGATGGACAGA
TCAGTTTTGACCTCTTGTCTGTGGCTCTGAGTGGTACTAATCATGAACATGACCAGCCGGCACACTT
AACCTTAAGGGATGACAGTATACCTGTAATAGAAATCTGTGATATATGATGGGCCGAGCAGCGATTCT
TGTCTGCAGGAGTTTATGAATTTGTACCTGTGGAACAAGGTGATGGATTTGCGTTACAGATAAATGCTC
AGAAGTGTGTACATTGTAACATGTGATATTAAGATCCAAGTCAGAATTAATACTGGGTGGTACCTGA
AGGTGGAGGAGGACCTGCTTACAATGGAATGTAA
    
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5' Read Nucleotide Sequence: >OriGene 5' read for NM_004453 unedited

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GCACGAGGGCAGCCTGGGTGACAGAGTGAGACTTTGTCTCNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNAAAAAAAAAGATGATGATAAAGAAGATGATACTGCCTTAAAAACCTGACCATAAAAC
AAAGTTTGTGCTTAAAGCCATTGACCTAACACGGTGATTATACTACTCCATATTACTCTC
AAAGTGTTCAGCTTTCATGACTAATCCATAGTTAAGCCTGACATGAGCTAAATTGAATAA
ATTTGCTTATTAGTTTTAAATATTTAAGATTTGAAAACATTGCTTTATGAGAAAAGCT
ATTCAAAGTGTTACCTAGGAAAGATTATAGTATATTTCACTATACTCATTGAGTATAGT
CATTCACTTATATTTTTTTCAGTCTACTGAGGAAAATAATTTTAAAGGAAGATAATAATTT
TCGTAATTTTTGTGCACATATCAGTGTCTTTCATGCCTTAAAAATTAAGAAAAATTATCTA
CCTCTATGTGATAAGATGGTCTTCAACTTCTACTGTGCCTCGAATTACTACCCATTATA
CTATTTATCCCCGATAAGGA
    
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Restriction Sites: NotI-NotI
ACCN: NM_004453
Insert Size: 2440 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:	<ol style="list-style-type: none">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_004453.1 , NP_004444.1
RefSeq Size:	2396 bp
RefSeq ORF:	1854 bp
Locus ID:	2110
UniProt ID:	Q16134
Cytogenetics:	4q32.1
Domains:	ETFD
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest protein (isoform 1).</p>