

Product datasheet for **RC238883**

ETFDH (NM_001281738) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ETFDH (NM_001281738) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ETFDH
Synonyms:	ETFQO; MADD
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238883 representing NM_001281738
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGGTTTGCAGAAGAAGCAGATGTTGTAATAGTTGGTGCAGGCCCTGCAGGGCTCTCTCGAGCTG
 TTCGTCTAAAACAGTTGGCTGTGGCACATGAAAAGGACATCCGTGTGTCTAGTGGAGAAAAGCTGCCCA
 GATAGGAGCTCACTCTCTCAGGGCTTGCCTTGATCCAGGTGCTTTTAAAGAAGCTCTCCAGACTGG
 AAAGAGAAGGGGGCTCCACTTAACACTCTGTAACAGAAGACAGATTTGGAATTTAACAGAGAAAATACA
 GAATTCCTGTGCCAATCTTCCAGGGCTTCCAATGAATAATCATGGCAATTACATTGTACGCTTGGGACA
 TTTAGTGAGCTGGATGGGCAACAAGCAGAAGCCCTTGGTGTGAAGTATACCCTGGTTATGCAGCTGCT
 GAGGTCCTTTTCATGATGATGGTAGTGTAAAAGGAATTGCCACTAACGATGTAGGGATACAAAAGGATG
 GTGCACCAAAGGCAACATTTGAGAGAGGACTGGAACACATGCTAAAGTCACAATTTTGCAGAAGTTG
 CCATGGACATCTAGCCAAGCAACTATATAAGAAGTTTGATTTGAGAGCAAATTGTGAACCTCAAACCTAC
 GGGATTGGACTGAAGGAGTTATGGGTTATTGATGAAAAGAAGCTGGAAACCTGGGAGAGTAGATCACACTG
 TTGGTTGGCCCTTGGACAGACATACCTATGGAGGATCTTCTCTATCATTGTAATGAAGGTGAACCCCT
 AGTAGCTCTTGGTCTTGTGGTGGTCTAGACTATCAGAATCCATACCTGAGTCCATTTAGAGAGTTCCAA
 AGGTGGAAACACCATCTAGCATTTCGGCCAACCTTGAAGGTGGAAAAAGGATTGCATACGGAGCCAGAG
 CTCTCAATGAAGGTGGCTTTCAGTCTATACAAAAGCTCACCTTCTGGTGGTTACTAATTGGTTGTAG
 TCCTGGTTTTATGAATGTTCCCAAGATCAAAGTACTCACACAGCAATGAAAAGTGAATTTTAGCAGCA
 GAATCTATTTTAACTCACTAAGTAACTAGTAAAATCTCCAATCAAAGACAATAGGACTCCATGTAACGAAT
 ATGAGGACAATTTGAAGAAGCTCATGGGTATGGAAGAGCTATATCTGTTAGAAAATATAAGACCCPQTY
 CCACGGAGTACTGGGTGATATGGAGGGATGATTTACACTGGAATCTTTTACTGGATATTGAGAGGAATG
 GAGCCGTGGACTCTGAAACATAAAGGTTCTGACTTTGAACGGCTCAAGCCAGCCAAGGATTGCACACCTA
 TTGAGTATCCAAAACCCGATGGACAGATCAGTTTTGACCTCTTGTCTGTGGCTCTGAGTGGTACTAA
 TCATGAACATGACCAGCCGGCACACTTAACCTTAAAGGATGACAGTATACCTGTAATAGAAATCTGTG
 ATATATGATGGGCCCGAGCAGCGATTCTGTCTGCAGGAGTTTATGAATTTGTACCTGTGGAACAAGGTG
 ATGGATTCGGTTACAGATAAATGCTCAGAAGTGTACATTGTAACATGTGATATTAAGATCCAAG
 TCAGAATATTAAGTGGTGGTACCTGAAGGTGGAGGAGGACCTGCTTACAATGGAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238883 representing NM_001281738
 Red=Cloning site Green=Tags(s)

MERFAEEADVIVGAGPAGLSAAVRLKQLAVAHEKDIRVCLVEKAAQIGAHTLSGACLDPGAFKELFPDW
 KEKGAPLNTPVTEDRFGILTEKYRIPVPIPLPGLPMNNHGNYIVRLGHLVSWMGEQAEALGVEVYPGYAAA
 EVLFHDDGSVKGIATNDVGIQKDGAPKATFERGLELHAKVTIFAEGCHGHLAKQLYKKFDLRANCEPQTY
 GIGLKELVWIDEKNWPKGRVDHTVWPLDRHTYGGSFYHLNEGEPLVALGLVVGLDYQNPYLSPFREFQ
 RWKHHPISRPTLEGGKRIAYGARALNEGGFQSIPKLTFFPGLLIGCSPGFMNVPKIKGHTHTAMKSGILAA
 ESIFNQLTSENLSKTIGLHVTEYEDNLKNSWVWKELYSVRNIRPSCHGVLVVYGGMIYTGIFYWILRGM
 EPWTLKHKGSDFERLKPDKDCTPIEYPKPDGQISFDLLSSVALSGTNHEHDQPAHLTLRDDSIPVNRNLS
 IYDGPEQRFCPAGVYEFVPEQGDGFRLLQINAQNCVHCKTCDIKDPSQINWVPEGGGGPAYNGM

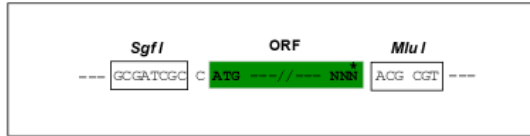
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

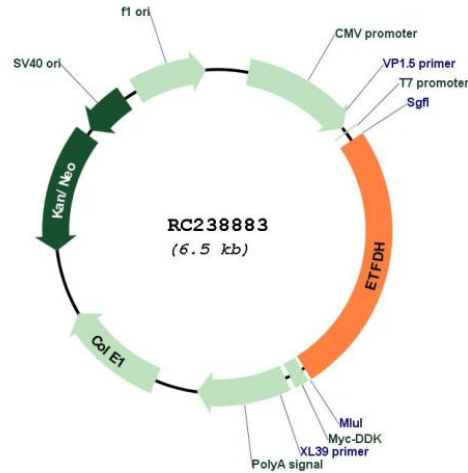
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001281738
ORF Size:	1668 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:	<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_001281738.1 , NP_001268667.1
RefSeq Size:	1952 bp
RefSeq ORF:	1671 bp
Locus ID:	2110
Cytogenetics:	4q32.1
MW:	61.8 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]