

Product datasheet for **RC238932**

ETFDH (NM_001281737) Human Tagged ORF Clone

Product data:

| | |
|--------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ETFDH (NM_001281737) 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 |



[View online »](#)

ORF Nucleotide Sequence:

>RC238932 representing NM_001281737
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGTGCCGCTAGCCAAGCTGTCCTGCCTGGGAGTGAACATGAAAGGTTTGCAGAAGAAGCAGATG
 TTGTAATAGTTGGTGCAGGCCCTGCAGGGCTCTCTGCAGCTGTTCTGCTAAAACAGTTGGCTGTGGCACA
 TGAAGAAGGACATCCGTGTGTCTAGTGAGAAAGCTGCCAGATAGGAGCTCACTCTCAGGGCT
 TGCCTTGATCCAGGTGCTTTAAAGAACTTCCAGACTGAAAAGAGAAGGGGGCTCCACTAACACTC
 CTGTAACAGAAGACAGATTTGGAATTTAACAGAGAAATACAGAATTCCTGTGCCAATCTTCCAGGGCT
 TCCAATGAATAATCATGGCAATTACATTGTACGCTTGGGACATTTAGTGAGCTGGATGGGCGAACAAAGCA
 GAAGCCCTTGGTGTGAAGTATACCCTGGTTATGCAGCTGCTGAGGTCTTTTTCATGATGATGGTAGTG
 TAAAAGGAATTGCCACTAACGATGTAGGATACAAAAGGATGGTGCACCAAGGCAACATTTGAGAGAGG
 ACTGGAACACATGCTAAAGTACAATTTTGCAGAAGTTGCCATGGACATCTAGCCAAGCAACTATAT
 AAGAAGTTTGATTTGAGAGCAAATTTGTGAACCTCAAACCTACGGGATTGGACTGAAGGAGTTATGGGTTA
 TTGATGAAAAGAAGCTGAAAACCTGGGAGAGTAGATCACACTGTTGGTTGGCCCTTGGACAGACATACCTA
 TGGAGGATCTTTCCTCTATCATTGAATGAAGGTGAACCCCTAGTAGCTCTTGGTCTTGTGGTTGGTCTA
 GACTATCAGAATCCATACCTGAGTCCATTTAGAGAGTTCCAAAGGTGAAAACACCATCCTAGCATTCCGC
 CAACCTTGAAGGTGAAAAAGGATTGCATACGGAGCCAGAGCTCTCAATGAAGGTGGCTTTTCAGTCTAT
 ACCAAAACCTCACCTTCTGGTGGTTTACTAATTTGGTTGTAGTCTGGTTTTATGAATGTTCCCAAGATC
 AAAGGTACTCACACAGCAATGAAAAGTGGAAATTTAGCAGCAGAATCTATTTTAACTCACTAACTAGTG
 AAAATCTCCAATCAAAGACAATAGGACTCCATGTAAGTGAATATGAGGACAATTTGAAGAACTCATGGGT
 ATGGAAAAGAGCTATATTCTGTTAGAAATAAAGACCGTCCGCCAGGACTGGGTGTATATGGAGGG
 ATGATTTACTGGAATCTTTTACTGGATATTGAGAGGAATGGAGCCGTGGACTCTGAAACATAAAGGTT
 CTGACTTTGAACGGCTCAAGCCAGCCAAGGATTGCACACCTATTGAGTATCCAAAACCCGATGGACAGAT
 CAGTTTTGACCTTGTGATCTGTGGCTCTGAGTGGTACTAATCATGAACATGACCAGCCGGCACACTTA
 ACCTTAAGGGATGACAGTATACCTGTAATAGAAATCTGTCGATATATGATGGGCCCGAGCAGCGATTCT
 GTCCTGCAGGAGTTTATGAATTTGTACCTGTGGAACAAGGTGATGGATTCGGTTACAGATAAATGCTCA
 GAACTGTGTACATTGTAACATGTGATATTAAGATCCAAGTCAGAATTAACCTGGTGGTACCTGAA
 GGTGGAGGAGGACCTGTTACAATGGAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238932 representing NM_001281737
 Red=Cloning site Green=Tags(s)

MLVPLAKLSCLGVNMERFAEEADVIVGAGPAGLSAAVRLKQLAVAHEKDIRVCLVEKAAQIGAHTLSGA
 CLDPGAFKELFPDWKEKGAPLNPVTEDRFGILTEKYRIPVPIPLPGLPMNNHGNYIVRLGHLVSWMGEQA
 EALGVEVYPGYAAAEVLFHDDGSVKGIATNDVGIQKDGAPKATFERGLELHAKVTIFAEGCHGLAKQLY
 KKFDLRANCEPQTYIGLKLWVDEKNWKPRVDHTVGWPLDRHTYGGSFYLHLEGEPLVALGLVVGL
 DYQNPYLSPFREFQRWKHHPSIRPTLEGGKRIAYGARALNEGGFQSIPLKTFPGLLIGCSPGMNVPKI
 KGHTHTAMKSGILAAESIFNQLTSENLSKTIGLHVTEYEDNLKNSWVKELYSVRNIRPSCHGVLGVYGG
 MIYTGIFYWILRGMEPWLKHKGSDFERLKPDKCTPIEYKPDGQISFDLLSSVALSGTNHEHDQPAHL
 TLRDSSIPVNRNLSIYDGPEQRFCPAGVYEFVPEQGDGFRLLQINAQNCVHCKTCDIKDPSQINWVPE
 GGGGPAYNGM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

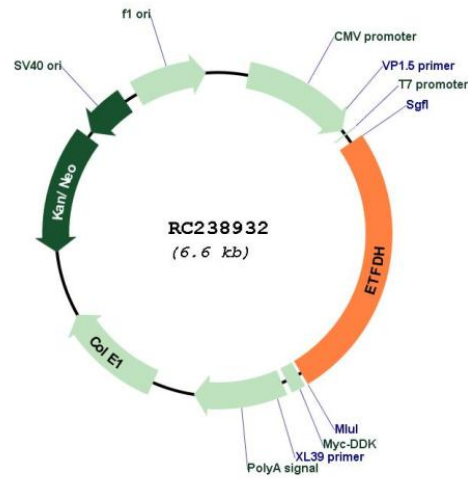
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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). |
| 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_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] |