

Product datasheet for **RR215689**

Etfdh (NM_198742) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Etfdh (NM_198742) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Etfdh
Synonyms:	MGC93785
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR215689 representing NM_198742
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTGGTGCAGCTAACCAAGCTGCTCCTGCCCTGCATATCAGTGGTTTCATGCCTTAAAAATTTAAAAAGT
 GCCTACCTCTGTGTGCTCCAAGATGCTCTTCAACCTCTGCTGTACCTCAGATTACCACTCACTACACTAT
 TCATCCCCGGGAAAAAGACAAAAGATGGGAAGGAGTGAATATGGAGAGATTTGCAGAAGAAGCAGATGTG
 GTAATAGTTGGTCCCGGCCAGCAGGGCTCTGCAGCTATTCGGCTAAAGCAGCTGGCTGCTGAACAGG
 AAAAGGACATCCGTGTGTCTGGTGGAGAAAGCTGCTCAGATAGGAGCTCATACGCTCTCAGGGGCTTG
 CCTTGATCCAGCTGCTTTAAAGAGCTTCCCAGACTGGAAGGAGAAGGGGGCTCCACTAACACTCCT
 GTAACAGAAGACAGGTTTGCATTTAACAGAGAAACACAGAATTCCTGTGCCAATCTCCAGGTCTTC
 CGATGAACAATCATGGCAATTACATCGTACGCCTCGGACACCTTGTGAGCTGGATGGGAGAACAGGCAGA
 GGCTCTGGGAGTTGAAGTGTACCCTGGATATGCTGCTGCTGAGGTCTTTATCATGAAGATGGTAGTGTG
 AAAGGAATCGCCACTAACGATGTGGGAATACAGAAGGATGGCGCACCAAGACAACATTTGAGAGAGGCC
 TGGAGTTGCATGCCAAAGTCACAATCTTTGCAGAAGGCTGCCATGGACACCTAGCCAAGCAGCTTTATAA
 AAAGTTTGATTTGAGGGCCAGCTGTGATGCCAGACTTACGGAATTGGTTTGAAGGAGTTATGGTTATT
 GATGAGAAGAAGTGGAAACCTGGGAGAGTAGATCACACTGTTGGCTGGCCCTTGGACAGACATACTTATG
 GAGGCTCTTCTCTATCACTTAAATGAAGGTGAACCTCTAGTAGCTGTTGGTTTTGTGGTTGGCCTGGA
 CTATCAGAATCCATACCTGAGTCCATTCAGAGAGTTCAGAGGTGGAAGCATCACCCAGCATCCGACCA
 ACCCTGGAAGGTGGGAAAAGGATAGCCTATGGAGCCCGAGCTCAATGAAGGTGGCTTGCAGTCCATAC
 CAAAACCTCACTTTCTGGTGGCTTACTAATTGGTTGCAGTCTGGATTATGAATGTTCCCAAGATCAA
 AGGTACCCACACAGCAATGAAAAGTGGAAAGCTTGGCAGCAGAAGCAATTTTAAAGCAACTAACTAGTGAA
 AATCTCCAATCAAAGACAGCAGGACTCCACGTAAGTATGAGGACAATTTGAAGCAATCCTGGGTGT
 GGAAAGAGCTACATGCTGTGAGAAATATAAGGCCATCCTGCCACGGGATCCTGGGGGTATATGGAGGGAT
 GATTTACTGGAATATTTACTGGATATTGAGAGGAATGGAGCCATGGACTCTAAAACATAAAGGCTCA
 GACTCTGAACAGCTCAAACCAGCAAGGACTGTACCCATTGAGTATCCAAAACCTGACGGACAGATCA
 GTTTTGACCTCTATCCTCTGTGGCTCTGAGTGGTACTAATCATGAACATGACCAGCCAGCACATTTAAC
 CTTGAAGGATGACAGCATACCTGTTAATAGAAATCTGTCAATATATGATGGCCCTGAGCAGCGATTCTGC
 CCTGCAGGAGTTTATGAATTTGTTCTCTGGAACAAGGTGATGGATTTTCGGTTACAGATAAATGCTCAGA
 ACTGTGTGCATTGTAACATGTGATATCAAAGACCCAAGTCAAATATTAAGTGGTGGTCCAGAAAG
 TGGAGGAGGACCTGCTTACAATGGCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR215689 representing NM_198742
 Red=Cloning site Green=Tags(s)

MLVRLTKLSCPAYQWFHALKIKKCLPLCAPRCSSTSAVPQITTHYTIHPREKDKRWEVNMERFAEEADV
 VIVGAGPAGLSAAIRLKLAAEQEKDIRVCLVEKAAQIGAHTLSGACLDPAAFKELFPDWKEKGAPLNT
 VTEDRFAILTEKHRIPVPIPLPGLPMNNHGNYIVRLGHLVSWMGEQAEALGVEVYPGYAAAEVLYHEDGSV
 KGIATNDVGIQKDGAPKTTFERGLELHAKVTIFAEGCHGHLAKQLYKFFDLRASCDAQTYGIGLKELWVI
 DEKKWKPRVDHTVGWPLDRHTYGGSFLYHLNEGEPLVAVGFVGLDYQNPYLSPFREFQRWKHHPISIRP
 TLEGGKRIAYGARALNEGGLQSIPKLTFFPGLLIGCSPGFMNVPKIKGHTAMKSGSLAAEAIKQLTSE
 NLQSKTAGLHVTEYEDNLKQSWWKELHAVRNIRPSCHGILGVYGGMIYTGIFYWILRGMPEWTLKHKGS
 DSEQLKPAKDCTPIEYKPDGQISFDLLSSVALSGTNHEHDQPAHLTLKDDSIQVNRNLSIYDGPQRFC
 PAGVYEFVPLEQGDGFRLLQINAQNCVHCKTCDIKDPSQININWVPEGGGGPAYNGM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198742

ORF Size: 1848 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:

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_198742.2](#), [NP_942037.2](#)

RefSeq Size: 2242 bp

RefSeq ORF: 1851 bp

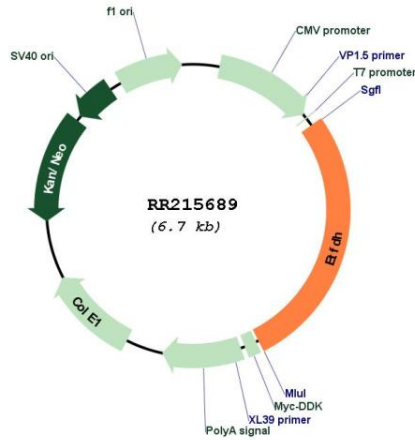
Locus ID: 295143

Cytogenetics: 2q33

MW: 68.2 kDa

Gene Summary: human homolog is an iron-sulphur flavoprotein involved in the mitochondrial electron-transfer system; accepts electrons from electron-transfer flavoprotein and in turn reduces ubiquinone [RGD, Feb 2006]

Product images:



Circular map for RR215689