

Product datasheet for **RG226894**

ECHDC1 (NM_001139510) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ECHDC1
Synonyms:	dJ351K20.2; HEL-S-76; MMCD
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG226894 representing NM_001139510
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCATTGAAACAGGAAATGGCGAAAAGTCTTTGAAGACAGCCTCTCTGTCTGGAAGGACAAAATTGC
TACATCAAACAGGATTGCACTTTATAGTACATCCCATGGATTTATGAGGAAGAAGTGAAAAACACT
TCAGCAGTTTCCTGGTGGATCCATTGACCTTCAGAAGGAAGACAATGGCATTGGCATTCTTACTCTGAAC
AATCCAAGTAGAATGAATGCCTTTTCAGGTGTTATGATGCTACAACCTCTGGAAAAAGTAATTGAATTGG
AAAATTGGACAGAGGGGAAAGGCCTCATTGTCCGTGGGGCAAAAAATACTTTCTCTTCAGGATCTGATCT
GAATGCTGTGAAATCACTAGGAACTCCAGAGGATGGAATGGCCGTATGCATGTTTCATGCAAAACACCTTA
ACAAGATTTATGAGACTTCCTTTAATAAGTGTTGCGCTGGTTCAAGGTTGGGCATTGGGTGGAGGAGCAG
AATTTACTACAGCATGTGATTTTCAGGTTAATGACTCCAGAGAGTAAGATCAGATTCGTCCACAAAGAGAT
GGGCATAATACCAAGCTGGGTGGCACCACCGGCTAGTTGAAATAATCGGAAGTAGACAAGCTCTCAAA
GTGTTGAGTGGGGCCCTTAACTGGATTCAAAAAATGCTCTAAACATAGGAATGGTTGAAGAGGTCTTGC
AGTCTTCAGATGAACTAAATCTCTAGAAGAGGCACAAGAATGGCTAAAGCAATTCATCCAAGGGCCACC
GGAAGTAATTAGAGCTTTGAAAAATCTGTTTGTTCAGGCAGAGAGCTATTTTGGAGGAAGCATTACAG
AACGAAAGAGATCTTTAGGAACAGTTTGGGTGGGCCTGCAAAATTTAGAGGCTATTGCTAAGAAAGGAA
AATTTAATAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG226894 representing NM_001139510
 Red=Cloning site Green=Tags(s)

MALKQEMAKSLLKTASLSGRTKLLHQTLGLSLYSTSHGFYEEEVKKTLLQQFPGGSIDLQKEDNGIGILTNL
 NPSRMNAFSGVMMLQLLEKVIENWTEGKGLIVRGAKNTFSSGSDLNAYKSLGTPEDGMVCMFMQNTL
 TRFMRLPLISVALVQGWALGGAEFTTACDFRLMTPESKIRFVHKEMGIIPSWGTTTRLVEIIGSRQALK
 VLSGALKLDSKNALNIGMVEEVLQSSDETKSLEEAQEWLQKFIQGPPEVIRALKKSVCSGRELYLEEALQ
 NERDLLGTWGGPANLEAIAKKGKFNK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCGCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCGGAGCT

- - E E R V Stop

ACCN: NM_001139510

ORF Size: 921 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001139510.1](#), [NP_001132982.1](#)

RefSeq Size: 2131 bp

RefSeq ORF: 924 bp

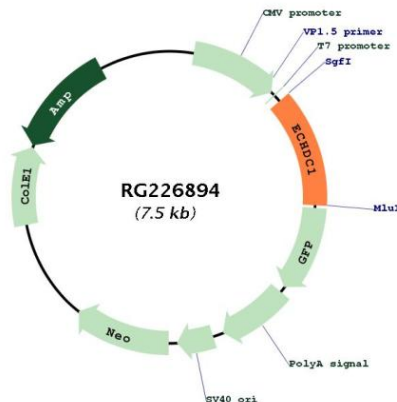
Locus ID: 55862

UniProt ID: [Q9NTX5](#)

Cytogenetics: 6q22.33

Gene Summary: Decarboxylases ethylmalonyl-CoA decarboxylase, a potentially toxic metabolite, to form butyryl-CoA, suggesting it might be involved in metabolite proofreading. Also has methylmalonyl-CoA decarboxylase activity at lower level.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG226894