

Product datasheet for RC219950

ECHDC1 (NM_018479) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ECHDC1 (NM_018479) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ECHDC1
Synonyms: dj351K20.2; HEL-S-76; MMCD
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC219950 representing NM_018479
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGAAAAGTCTTTTGAAGACAGCCTCTCTGTCTGGAAGGACAAAATTGCTACATCAACAGGATTGT
CACTTTATAGTACATCCCATGGATTTTATGAGGAAGAAGTAAAAAACACTTCAGCAGTTTCCTGGTGG
ATCCATTGACCTCAGAAGGAAGACAATGGCATTGGCATTCTTACTCTGAACAATCCAAGTAGAATGAAT
GCCTTTTCAGGTGTTATGATGCTACAACCTCTGGAAAAAGTAATTGAATTGGAAAATTGGACAGAGGGGA
AAGGCCTCATTGTCCGTGGGGCAAAAAAATACTTTCTCTTCAGGATCTGATCTGAATGCTGTGAAATCACT
AGGAACTCCAGAGACTTCCTTTAATAAGTGTTGCGCTGGTTCAAGGTTGGGCATTGGGTGGAGGAGCAGA
ATTTACTACAGCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219950 representing NM_018479
Red=Cloning site Green=Tags(s)
MAKSLKLTASLSGRKLLHQGLSLYSTSHGFYEEVKKTLQFPGGSIDLQKEDNGIGILTLNPNP
AFSGVMMLQLLEKVIENWTEGKGLIVRGAKNTFSSGSDLNAVKSLGTPETSFNKCCAGSRLGIGWRSR
IYYSM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

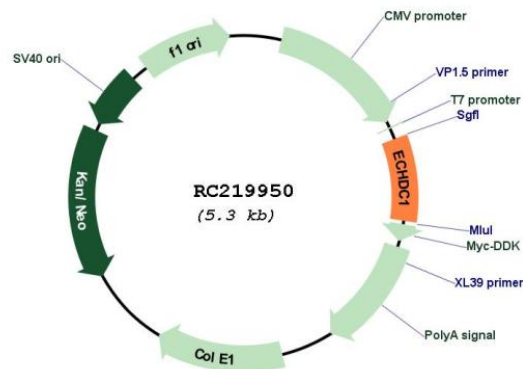


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Cloning Scheme:



Plasmid Map:



ACCN: NM_018479

ORF Size: 435 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:	<u>NM_018479.3</u>
RefSeq Size:	2271 bp
RefSeq ORF:	438 bp
Locus ID:	55862
UniProt ID:	<u>Q9NTX5</u>
Cytogenetics:	6q22.33
Domains:	ECH
MW:	15.7 kDa
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]