

## Product datasheet for **SC113451**

### **ECHDC1 (NM\_018479) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ECHDC1 (NM_018479) Human Untagged Clone
Tag:	Tag Free
Symbol:	ECHDC1
Synonyms:	dj351K20.2; HEL-S-76; MMCD
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_018479, the custom clone sequence may differ by one or more nucleotides

```
ATGGCGAAAAGTCTTTTGAAGACAGCCTCTCTGTCTGGAAGGACAAAATTGCTACATCAAACAGGATTGT  
CACTTTATAGTACATCCCATGGATTTTATGAGGAAGAAGTGAAAAAACACTTCAGCAGTTTCCTGGTGG  
ATCCATTGACCTCAGAAGGAAGACAATGGCATTGGCATTCTTACTCTGAACAATCCAAGTAGAATGAAT  
GCCTTTTCAGGTGTTATGATGCTACAACCTCTGAAAAAGTAATTGAATTGAAAAATTGGACAGAGGGGA  
AAGGCCTCATTGTCCGTGGGGCAAAAAATACTTTCTTTCAGGATCTGATCTGAATGCTGTGAAATCACT  
AGGAACTCCAGAGACTTCCTTTAATAAGTGTTCGCTGGTTCAAGGTTGGGCATTGGGTGGAGGAGCAGA  
ATTACTACAGCATGTGA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_018479 unedited  
 GGT CAGAATTTGTATACGACTCATATAGGCGGCCGNAATTCGCACGAGGATAAAGTTC  
 CTGGGAGAAAAGGAAAGGAGAGCGTGGGATAGTAAAAGAGAAGACGCGGAGAAGAGGAGAG  
 GACCTACAAGAACGGAGGACAGGGGCGCACGATGGTCCCGGGGGAGCGGAAACAAAGGC  
 ACGCAAAACGGAAAAGCGTGTGTAGGGGAGCGGAAAAGGAAGTCAACCACGTGGCCTGCG  
 ACGAAAATGGCGAAAAGTCTTTGAAGACAGCCTCTGTCTGGAAGGACAAAATTGCTAC  
 ATCAAACAGGATTGTCACTTTATAGTACATCCCATGGATTTTATGAGGAAGAAGTGAAAA  
 AAACACTTCAGCAGTTTCCTGGTGGATCCATTGACCTTCAGAAGGAAGACAATGGCATTG  
 GCATTCTTACTCTGAACAATCCAAGTAGAATGAATGCCTTTTCAGGTGTTATGATGCTAC  
 AACTTCTGAAAAAGTAATTGAATTGAAAAATTGGACAGAGGGGAAAGGCCTCATTGTCC  
 GTGGGGCAAAAAATACTTTCTTTCAGGATCTGATCTGAATGCTGTGAAATCACTAGGAA  
 CTCCAGAGGATGGAATGGCCGTATGCATGTTTCATGCAAAACACCTTAACAAGATTTATGA  
 GACTTCCTTTAATAAGTGTTCGCTGGTCAAGGTTGGGCATTGGGTGGAGGAGCAGAAT  
 TTAACACAGCATGTGATTTCAAGTAACTCCAGAGAGTAAGATCAGATTCGTCACACA  
 NAGAGATGGGCATAATACCAAGCTGGNGTGGCACCACCCGGCTAGTTGAAATAAATCGAA  
 GTAGACAAGCTCTCAAAGTGTGAGTGGNGCCCTTAAACTGGATTCAAAAATGCTCTAAC  
 ATAGAATGGGTGA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_018479 unedited  
 CGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTAGACCACAAAATCCACTTT  
 TATTTGGTAGTTTTTACATCTATGGCCAAATAGTATTGGGTTGACACAGTAATCTAGAGT  
 TTACCTCTGAAAAAAGTAATGTGAGTCTGTCTAACCATATTTTCCTAACTCAACAGTAG  
 GATCATGATGGTAAGGCAAAATACAAGTTATTTTTACCATGATTCTCAAATGTGAATTGAA  
 TGTTACAGTAGCAAAATACTTTTGACCTCTGTGATGAGTCAGAACTAGAATTAATTCTT  
 TGACTTTCACATTTTTTAAAAAGTGTATTGCTGGGATCATAAACATTTTTATGTTGTGCAT  
 TTTTATTACATTTACTTTTGAAGATAGTTGTTAGAAGGTTAGTTGTTTTTCAGGAAAAA  
 AAAGAAATCTGATGTAAAATGCAATTTATGTTGCAGGATGCTTCATGAGTCCCTTCAA  
 GTGGTTTTAAAACATCAACAGTAGTTGTTTATTACTAGTTGGAAATCCAGGGCACAC  
 AAATGAATGTCCAATTGTAGAATCAGTTGACTTTCCATGTCATGGCTACCACTGTTTAGT  
 AGGTAATTTACAATAGAAAATAATTATTGAAAAGAACAAGTTCCAAATTTGTAGTGGG  
 TAGTGAGGTACATCTTTNTTAAATGAAGGGCCATTTCCCATGAATNTACTCCAGCTGT  
 TTGGAGCAGAAGAAAATGATTGATCATACCCTTCTTGTTCCTGNTCCTGAACCTNCCA  
 CTTTTGTTCTTAGCAGCACACTCATTATTTGGGTAATATTNCCAGTAAACAGACAAAAA  
 TGTATGAAAAGTACCGCAGGAAATAGTTTGTATAAAGCTCTCCTTTAAACCTCTCTTTGG  
 TATAGCTAGAAATATATGAATGACGCATATTTTAGCAAAGGAATTTACTAAGTCCAATAC  
 CG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_018479

**Insert Size:**

2260 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_018479.2</a> , <a href="#">NP_060949.2</a>
<b>RefSeq Size:</b>	2271 bp
<b>RefSeq ORF:</b>	438 bp
<b>Locus ID:</b>	55862
<b>UniProt ID:</b>	<a href="#">Q9NTX5</a>
<b>Cytogenetics:</b>	6q22.33
<b>Domains:</b>	ECH
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate exon compared to variant 1, that causes a frameshift. The resulting isoform (2) has a shorter and distinct C-terminus compared to isoform 1.</p>