

## Product datasheet for **SC122385**

### L2HGDH (BC006117) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	L2HGDH (BC006117) Human Untagged Clone
Tag:	Tag Free
Symbol:	L2HGDH
Synonyms:	2-hydroxyglutarate dehydrogenase; alpha-hydroxyglutarate oxidoreductase; alpha-ketoglutarate reductase; C14orf160; DURANIN; FLJ12618; L-2-hydroxyglutarate dehydrogenase; L-alpha-hydroxyglutarate dehydrogenase
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for BC006117 edited  
 AATTTCGACACGAGGGGGAGCGTGCAGTGGGATGGTGCCAGCGCTGCCTATTTGGTTG  
 GTGCTGCGGACGGGCCCGGGCGTTTCGCCGGTGGCTCCCCTGGGGCGTGCGGGTTCCG  
 CGTCTGGGAGGCCAAGACCGCTGTGTGGAGGTAGCCGACGCGCCAGCACCAGCTCATTTG  
 ATATAGTCATTGTTGGTGGCGGAATTGTGGGGCTTGCCTCTGCCAGAGCACTCATCTGC  
 GACATCCATCACTTTCTATTGGTGTCTGAAAAAGGAGAAAGATTTAGCTGTTCAACCAGA  
 CTGGACATAACAGTGGTGCATACATAGTGAATTTATTATAAACCTGAGTCTCTGAAAG  
 CCAAATTATGTGTACAAGGTGCAGCCCTCTCTATGAGTACTGTGAGCAAAAGGGAATTT  
 CCTACAAGCAGTGTGGCAAGCTTATAGTGTGTTGAACAAGAAGAAATCCCAGACTTC  
 AGGCCCTATATGAGAAAGGCTCCAGAATGGTGTCCCGGGCTGAGGCTGATCCAGCAGG  
 AGGATATAAAAAAGAAGGAGCCATATTGTAGGGTCTAATGGCTATTGATTGTCCACATA  
 CTGGCATTGTGGACTATCGGCAGGTGGCTTTGTCATTTGCCAGGATTTCCAAGAAGCAG  
 GTGGCTCTGTCTTGACCAATTTTGAAGTAAAAGGTATTGAAATGGCTAAAGAAAGTCCTT  
 CAAGAAGTATAGATGGAATGCAATATCCAATTGTTATAAAGAATACAAAGGGAGAGGAAA  
 TTCGATGTCAGTATGTTGTGACATGTGCAGGACTTTACTCAGACCGTATTTGAGATTGA  
 GTGGCTGCACTCCTGATCCTCGAATTGTACCATTCCGGGGAGATTACCTGCTTTTGAAGC  
 CAGAAAAATGTTATCTTGTAAAAGGAAATATTTATCCGGTCCCAGATAGCCGGTTTCCTT  
 TCCTAGGAGTTCACTTCACCAAGGATGGATGGCAGTATTTGGCTAGGGCCTAATGCAG  
 TTCTTGCCTTTAAACGAGAGGGTTACAGACCCTTTGACTTCAGTGCCACAGATGTTATGG  
 ATATAATTATCAATAGTGGCTTGATTAACCTGGCATCCCAGAATTTTTCATGAGGTTA  
 CTGAAATGTATAAAGCATGTTTTCTTGGTGAACAGTGAAGTATCTTCAAAAATTCATCC  
 CTGAAATTAATCACTGATATACTTAGGCAGGTGGCTGTGAGAGGACCGAGCTGGCTAT  
 GGCAGCAACCCATGAAAGTGAAGTATAACAACATTTATTGTTTCTGTGGCGTTGCTTTG  
 CTTTGCTATTGACTGGTAGCACTGTAGCTTTAAATAAATTTGAGGAAGTATGAGAGAGTA  
 AATGGAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for BC006117 unedited  
 NNNAAATAGCGGACAGAATTTGTATACGACTCACTATAGGCGGCCGCGATTTCGACACAGGG  
 GGGAGCGTGCCTAGGGGATGGTGCCAGCGCTGCCTTATTTGGTTGGCTGCGGACGGG  
 CCCGCGGGCGTTTCGCCGGTGGCTCCCCTGGGGCGTGCGGGTTTCGCGTCTGGGAGGCCAA  
 GACCGCTGTGTGGAGGTAGCCGACGCGCCAGCACCAGCTCATTTGATATAGTCATTGTTG  
 GTGGCGGAATTTGGGGCTTGCCTCTGCCAGAGCACTATCCTGCGACATCCATCACTTT  
 CTATTGGTGTCTGAAAAAGGAGAAAGATTTAGCTGTTCAACCAGACTGGACATAACAGTG  
 GTGTCATACATAGTGAATTTATTATAAACCTGAGTCTCTGAAAGCCAAATTTATGTGTAC  
 AAGGTGCAGCCCTCCTCTATGACTGTGAGCAAAAGGGAATTTCTACAAGCAGTGTG  
 GCAAGCTTATAGTGTGTTGAACAAGAAGAAATCCCAGACTTCAGGCCCTATATGAGA  
 AAGGCTCCAGAATGGTGTCCCGGGCTGAGGCTGATCCAGCAGGAGGATATAAAAAAGA  
 AGGAGCCATATTGTAGGGTCTAATGGCTATTGATTGTCCACATACTGGCATTGTGGACT  
 ATCGGCAGGTGGCTTTGTCATTTGCCAGGATTTCCAAGAAGCAGGTGGCTCTGTCTTGA  
 CCAATTTTGAAGTAAAAGGTATTGAAATGGCTAAAGAAAGTCCTTCAAGAAGTATAGATG  
 GAATGCAATATCCAATTGTTATAAAGAATACAAAGGGAGAGGAAATTCGATGTCAGTATG  
 TTGTGACATGTGCAGGACTTTACTCAGACCGTATTTGAGATTTGAGTGGCTGCCTCC

**Restriction Sites:** Please inquire

**ACCN:** BC006117

**Insert Size:** 1400 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).

<b>Components:</b>	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>	<u><a href="#">BC006117.1</a></u> , <u><a href="#">AAH06117.1</a></u>
<b>RefSeq Size:</b>	1404 bp
<b>Locus ID:</b>	79944
<b>Cytogenetics:</b>	14q21.3
<b>Protein Pathways:</b>	Butanoate metabolism
<b>Gene Summary:</b>	This gene encodes L-2-hydroxyglutarate dehydrogenase, a FAD-dependent enzyme that oxidizes L-2-hydroxyglutarate to alpha-ketoglutarate in a variety of mammalian tissues. Mutations in this gene cause L-2-hydroxyglutaric aciduria, a rare autosomal recessive neurometabolic disorder resulting in moderate to severe cognitive disability. [provided by RefSeq, Jul 2008]