

## Product datasheet for **SC123700**

### OGDH (BC009580) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OGDH (BC009580) Human Untagged Clone
Tag:	Tag Free
Symbol:	OGDH
Synonyms:	2-oxoglutarate dehydrogenase; AKGDH; E1k; H_DJ0691F11_gi16307008.sp_cds.1; OGDC; oxoglutarate (alpha-ketoglutarate) dehydrogenase (lip; oxoglutarate decarboxylase'; oxoglutarate dehydrogenase (lipoamide); oxoglutarate dehydrogenase (succinyl-transferring)
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 BC009580 edited  
 CCGAGAGTTTGGAGCCCCGGAGTGGGGTGTGCGCGCCTCATTGCGGTGGAGCTGAGCCGG  
 AGACAGGCAGTTGTGAAAACTTCAGGACAAAAATGTTTCATTTAAGGACTTGTGCTGCT  
 AAGTTGAGGCCATTGACGGCTTCCCAGACTGTTAAGACATTTTCACAAAACAGACCAGCA  
 GCAGCTAGGACATTTCAACAGATTCCGGTCTATTCTGCACCTGTTGCTGCTGAGCCCTTT  
 CTCAGTGGGACTAGTTCGAACTATGTGGAGGAGATGACTGTGCTTGGCTGGAAAACCCC  
 AAAAGTGTACATAAGTCATGGGACATTTTTTTTCGCAACACGAATGCCGGAGCCCCACCG  
 GGCAGCTGCCACAGAGTCCCCTTCCCCTGAGCCGAGGCTCCCTGGCTGCTGTGGCCCAT  
 GCACAGTCCCTGGTAGAAGCACAGCCCAACGTGGACAAGCTCGTGGAGGACCACCTGGCA  
 GTGCAGTCGCTCATCAGGGCATATCAGATACGAGGGCACCATGTAGCACAGCTGGACCCC  
 CTGGGGATTTTGGATGCTGATCTGGACTCCTCCGTGCCCGCTGACATTATCTCATCCACA  
 GACAACTTGGGTTCTATGGCCTGGATGAGTCTGACCTCGACAAGGTCTTCCACTTGCCC  
 ACCACCACTTTCATCGGGGGACAGGAATCAGCACTTCTCTGCGGGAGATCATCCGTCGG  
 CTGGAGATGGCCTACTGCCAGCATATTGGGGTGGAGTTCATGTTCAATGACCTGGAG  
 CAGTGCCAGTGGATCCGGCAGAAGTTTGAGACCCCTGGGATCATGCAGTTCACAAATGAG  
 GAGAAACGGACCCCTGCTGGCCAGGCTTGTGCGGTCCACCAGGTTTGAGGAGTTCCACAG  
 CGGAAGTGGTCCCTGAGAAAGCGCTTTGGTCTAGAAGGCTGCGAGGTAAGTATCCCTGCC  
 CTCAAGACCATCATTGACAAGTCTAGTGAGAATGGCGTGGACTACGTGATCATGGGCATG  
 CCACACAGAGGGCGGCTGAACGTGCTTGCAAAATGTCATCAGGAAGGAGCTGGAACAGATC  
 TTCTGTCAATTCGATTCAAAGCTGGAGGCAGCTGATGAGGGTCCGGAGATGTGAAGTAC  
 CACCTGGGCATGTATCACCGCAGGATCAATCGTGTACCGACAGGAACATTACCTTGTC  
 TTGGTGGCCAACCCTTCCCACCTTGAGGCCGCTGACCCCGTGGTATGGGCAAGACAAA  
 GCCGAACAGTTTTACTGTGGCAGCACTGAAGGGAAAAAGTAAAGGCCAGAGAGAGGCGCT  
 GCAAGGCAGATCGTCAAGGCCCATGTTCCAGCATGGAGTTCGGTCAACCAACATAACCC  
 AGAGCCCTGGGTGCATCTAGACTTTAAAAAATATTTAAAGTTCGCGCCGGGCGCAGTGTCT  
 CACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCAGTACCTGAGTTCGGGAG  
 TTGGAGACCAGCCTGACCAACATGGAGAACTCCATCTCTACTAAAAATACAAAATTAGC  
 TGGGCGTGGTGGCGCGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCG  
 CTTGAACCCGGGAGGTGGAGTTGCAGTGAAGGAGATTACGCCATTGCACTCCAGCCTG  
 GGCCAACAAGAGCGAAACTCTGTCTCAAAGAAAAAATAAATAAATAAAAAATATATGTA  
 TATGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for BC009580 unedited  
 NNCCAGACACATTTGTATACGACTCCTATAGGCGGCCCGGAATTCGCCATTACGGCCGG  
 GGCCGAGAGTTTGGAGCCCCGGAGTGGGGTGTGCGCGCCTCATTGCGGTGGAGCTGAGCC  
 GGAGACAGGCAGTTGTGAAAACTTCAGGACAAAAATGTTTCATTTAAGACTTGTGCTG  
 CTAAGTTGAGGCCATTGACGGCTTCCCAGACTGTTAAGACATTTTCACAAAACAGACCAG  
 CAGCAGCTAGGACATTTCAACAGATTCCGGTCTATTCTGCACCTGTTGCTGCTGAGCCCT  
 TTCTCAGTGGGACTAGTTCGAACTATGTGGAGGAGATGACTGTGCTTGGCTGGAAAACC  
 CCAAAAGTGTACATAAGTCATGGGACATTTTTTTTCGCAACACGAATGCCGGAGCCCCAC  
 CGGGCACTGCCTACCAGAGTCCCCTTCCCCTGAGCCGAGGCTCCCTGGCTGCTGTGGCCC  
 ATGCACAGTCCCTGGTAGAAGCACAGCCCAACGTGGACAAGCTCGTGGAGGACCACCTGG  
 CAGTGCAGTCGCTCATCAGGGCATATCAGATACGAGGGCACCATGTAGCACAGCTGGACC  
 CCCTGAGGATTTTGGATGCTGATCTGGACTCCTCCGTGCCCGCTGACATTATCTCATCCA  
 CAGACAACTTGAATTTCTATGGCCTGGATGAGTCTGACCTCGACAGGTCTTCCACTTGCC  
 CACCACCACTTTCATCGGGGGACAGGAATCAGCACTTCTCTGCGGNAGATCATCCGTCG  
 GCTGGAGATGGCTACTGCCAGCATATTGAGGGTGGAGTTCATGTTNCATCATGACCCTN  
 AGCANTGCCATTGGATCCGGCAGAAGTTTGAGACCCCTGGGATCATGCAGTTCACN

**Restriction Sites:** Please inquire

**ACCN:** BC009580

**Insert Size:** 1775 bp

<b>OTI Disclaimer:</b>	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>	<a href="#">BC009580.1</a> , <a href="#">AAH09580.1</a>
<b>RefSeq Size:</b>	1775 bp
<b>Locus ID:</b>	4967
<b>Cytogenetics:</b>	7p13
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Citrate cycle (TCA cycle), Lysine degradation, Metabolic pathways, Tryptophan metabolism
<b>Gene Summary:</b>	This gene encodes one subunit of the 2-oxoglutarate dehydrogenase complex. This complex catalyzes the overall conversion of 2-oxoglutarate (alpha-ketoglutarate) to succinyl-CoA and CO <sub>2</sub> during the Krebs cycle. The protein is located in the mitochondrial matrix and uses thiamine pyrophosphate as a cofactor. A congenital deficiency in 2-oxoglutarate dehydrogenase activity is believed to lead to hypotonia, metabolic acidosis, and hyperlactatemia. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Sep 2009]