

Product datasheet for **SC313834**

D2HGDH (BC036604) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	D2HGDH (BC036604) Human Untagged Clone
Tag:	Tag Free
Symbol:	D2HGDH
Synonyms:	D-2-hydroxyglutarate dehydrogenase; D2HGD; FLJ42195; MGC25181
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for BC036604, the custom clone sequence may differ by one or more nucleotides <pre> ATGCTGCCCCGTGCGCCTCTGGCGTGGCCCGCTGGCTGTTGCGGGGTGCTCCGGGAGCC GCGGGTCTTGGGGTCGGCCGTTGGCCCCCTGGCCCGCAGAGGCTGCTGCTCCGCCCG GGGACCCCGAGGTGCCGCTGACCCGGGAGCGCTACCCCGTGCAGCGCTTGCCGTCTCC ACGGTGTCTAAGCAGGACCTGGCCGCTTTGAGCGCATCGTGCCCGGGGGGTGCTCAGC GACCCGGAAGCGCTGCAGGCTCCCAACGTGGACTGGTTGCGGACGCTGCGAGGCTGTAGC AAGGTGCTGCTGAGGCCACGGACGTCGGAGGAGGTGTCCACATCCTCAGGCACTGCCAC GAGAGGAACCTGGCCGTGAACCCACAGGGGGGCAACACAGGCATGGTGGGTGGCAGCGTC CCCGTCTTTGACGAGATCATCTCTCCACTGCCCGCATGAACCGGTCTCTCAGCTTCCAC AGCGTGTCTGGAATTCTGTTTGGCAGGCGGGTGCCTCTGGAGGAGCTGAGCCGGTAT GTGGAGGAACGGGACTTCATCATGCCGCTGGACTTAGGAGCCAAGGGCAGCTGCCACATC GGGGGAACAGTGGCAACCAACGCTGGAGGCTGCGGTTTCTTCGATATGGCTCACTGCAT GGGACTGTCTGGGCTGGAAGTGGTGTGGCCGACGGCACTGTCTGGACTGCCTGACC TCCCTGAGGAAGGACAACACGGGCTATGACCTGAAGCAGCTGTTTCATCGGTCGGAGGGC ACTTTGGGGATCATCACCACGGTGTCCATCTTGTGTCCACCAAGCCAGGGCTGTGAAC GTGGCTTTCTCGGCTGCCCAGGCTTTGCTGAGGTTCTGCAGACCTTCAGCACCTGCAAG GGGATGCTGGGTGAGATCCTGTCTGCATTGAGTTTCATGGATGCTGTGTGCATGCAGCTG GTCGGGCGCCATCTCCACTGGCCAGCCGGTGCAAGAGAGTCCGTTTTACGTCTCATC GAGACTTCAGGCTCCAACGCAGGCCATGACGCTGAGAAGCTGGGCCACTTCTGGAGCAC GCGCTGGGCTCCGGCCTGGTGACCGATGGGACCATGGCCACCGACCAGAGGAAAGTCAAG ATGCTGTGGGCCCTGAGGAAAGGATCACAGAGGCGCTGAGCCGGGATGGCTACGTGTAC AAGTACGACCTCTCCCTCCCTGTGGAGCGGCTCTACGACATCGTACTGACCTGCGCGCC CGCCTCGGCCCGCACGCAAGCACGTGGTGGGCTATGGCCACCTTGAGATGGTAACCTG CACCTCAATGTGACGGCGGAGGCTTCAGCCCCCTCGCTCCTGGCTGCCCTGGAGCCCCAC GTGTACGAGTGGACGGCCGGGCAGCAGGCGAGCTCAGCGCGGAGCACGAGTGGGCTTC AGGAAGAGGGACGTCTGGGCTACAGCAAGCCACCGGGGGCCCTGCAGCTCATGCAGCAG CTCAAGGCCCTGCTGGACCCCAAGGGCATCTCAACCCCTACAAGACGCTGCCAGCCAG GCC </pre>
Restriction Sites:	Please inquire



[View online »](#)

ACCN:	BC036604
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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.
RefSeq:	BC036604.2 , AAH36604.2
RefSeq Size:	2570 bp
RefSeq ORF:	1566 bp
Locus ID:	728294
Cytogenetics:	2q37.3
Domains:	FAD-oxidase_C, FAD_binding_4
Gene Summary:	This gene encodes D-2hydroxyglutarate dehydrogenase, a mitochondrial enzyme belonging to the FAD-binding oxidoreductase/transferase type 4 family. This enzyme, which is most active in liver and kidney but also active in heart and brain, converts D-2-hydroxyglutarate to 2-ketoglutarate. Mutations in this gene are present in D-2-hydroxyglutaric aciduria, a rare recessive neurometabolic disorder causing developmental delay, epilepsy, hypotonia, and dysmorphic features. [provided by RefSeq, Jul 2008]