

Product datasheet for **SC103002**

BDH1 (NM_004051) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: BDH1 (NM_004051) Human Untagged Clone
Tag: Tag Free
Symbol: BDH1
Synonyms: BDH; SDR9C1
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_004051 edited
ATGCTGGCCACCCGCTCTCCAGACCCCTGTACGGCTCCCAGGAAAAACCTAAGTGCC
TGTGATAGAGAAAAATGGAGCAAGACGCCCACTATTGCTTGGTTCTACTTCCTTTATCCCG
ATTGGCCGTCGGACTTATGCCAGTGC GGCGGAGCCGGTTGGCAGCAAAGCTGTCCCTGGTC
ACAGGCTGTGACTCTGGATTTGGTTCTCATTGGCCAAGCATCTGCATTCAAAGGCTTC
CTTGTGTTTGTGGCTGCTTGTGAAGGACAAAGGCCATGATGGGGTCAAGGAGCTGGAC
AGCCTAAACAGTGACCGATTGAGAACCGTCCAGCTCAATGTCTGCAGCAGCGAAGAGGTG
GAGAAAGTGGTGGAGATTGTCCGCTCGAGCCTGAAGGACCCTGAGAAAGGCATGTGGGGC
CTCGTTAAACAATGCCGGCATCTCAACGTTCCGGGAGGTGGAGTTCACCAGCCTGGAGACC
TACAAGCAGGTGGCAGAAGTGAACCTTTGGGGCACAGTGGGATGACGAAATCCTTTCTC
CCCCTCATCCGAAGGGCCAAAGGCCGCTCGTCAATATCAGCAGCATGCTGGGCCGATG
GCCAACCCGGCCCGCTCCCCGACTGCATCACCAAGTTCGGGGTAGAGGCTTTCTCGGAC
TGCTTGCCTATGAGATGTACCCCTGGGCGTGAAGGTACAGCGTGGTGGAGCCCGCAAC
TTCATCGTGCACCAGCCTTTACAGCCCTGAGAGCATTAGGCCATCGCCAAGAAGATG
TGGGAGGAGCTGCCTGAGGTCGTGCGCAAGGACTACGGCAAGAAGTACTTTGATGAAAAG
ATCGCCAAGATGGAGACCTACTGCAGCAGTGGCTCCACAGACACGTCCCCTGTATCGAT
GCTGTACACACGCCCTGACCGCCACCACCCCTACACCCGCTACCACCCCATGGACTAC
TACTGGTGGCTGCGAATGCAGATCATGACCCACTTGCCTGGAGCCATCTCCGACATGATC
TACATCCGCTGA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004051 unedited</p> <pre>CCCTTTTGTATACGACTCACTATAGGGGCGGCCGGAATTCGCACGAGGGGCGGAGGCCG CAGGCCGAGGAGTGCTGGTGGAGGGCTTCCAGAAAGACCTGCGGCAGCGCCCCCT CGGCTCTCCCCGAGGAGAGCGGGCACCTGCGCGGCGCCGGTGAAGGCGAGAGCCTCGG CGAGCCCTCTGCAGCGGAGCCCCCTGCCATTTGGTTTTGGCCAGTCAGCCTGAAATCT GCCTGTAGTCAGTGATGCAGAGTCACCCTGCAGTTCCTACTTTGAGGGTTGCAGAAGC ACATATTTCACTATGGAGGGCCGCTGCAGGCCCTCGCGTGCAGGATCTTTTGTGACGC TGCAAATGTCCTGAACCACCGGAGGAACTGGGCCATTCTAACACCCGTTGCTACCATGC TGCCACCCGCTCTCCAGACCCCTGTACGGCTCCAGGAAAAACCCTAAGTGCCTGTG ATAGAGAAAAATGGAGCAAGACGCCCACTATTGCTTGGTTCTACTTCTTTATCCCGATTG GCCGTCGGACTTATGCCAGTGGCGGAGCCGGTTGGCAGCAAAGCTGCTCTGGTACAG GCTGTGACTCTGGATTTGGTTCTCATTGGCCAAGCATCTGCATTCAAAGGCTTCTTG CGTTTGTGGCTGCTCGATGAACGACAACAGGCCATGATGGTGTCAAGGAGCTGGACAGC CTAACAGTGACCCGATGAGAACCGTCCAGCTCAATGTCTGCAGCACCGAAGAAGTGGAG AAAGTGGTGGAGATTGTCGCTCGAGCTGAAGACCCTGAGAAAGCATGTGGGGCCCTGN TNACCATGCCCGATTTCAACGTTCCGGGAGGTGGAGTTCACACGCTGGAACCTACAAG CACGTGCCATAATGAACCTTTGGGGCCAGTGGGATGACCAAATCCTTTTTCCCGTTAT ACAAAGGCCAAAGACGNCGTN</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004051 unedited</p> <pre>AAGGATGTTTTTCTTAACAATCTCTGTAAGAGAATTATCTCCGGTAGAGAAGATTCACCA TGTTTGCCTGAGCTTTAGAGGCCATGCCTGCCACTCCACACCCTGTTTGTGAAGGCC AAGTCACTCACTATGCAAAGAATCATTCCCTCTAGTTAGTGTTAAAACAGTTATGGGT CTTCTGGCTTGGTGGATAATCCACACCTGGATAATCAAGAGTTGACTATATGGGTCTCT CCATTGCCTCCGTTCCACCAGGGATCCCTGACAGAGGCCACATTGAGACTCTTCCACGG ATGTATATCATGTGAGAGATGGCTCCATGCAAGTGGGTGATGATCTGCATTGCGAGCCTC CAATACTAGTCCATGGGGTGGTAACGAGTGTATGGGGTGGTGGCGGTTACGGCGTGTGT GACAGCATCCATGACCTGGGACCTGTCTGTGGAGCCACTGCTGAAGTAGGTCTCCATCTT GCACATCTTTTCAAAAGTACTTCTTGGCGTGGTCTTGGGCGCAGACCTCGGTGCTC CGTACACGTCTTCTTAGCTATGGCCTGAATGCTCTCACGGGTGTAAGGCTGGTGGCAGC GATTGAAGTAGGAGGATACATCAAACCTGCCTTGGCCCATGGGGTGGTCTCATTCAG CAGGCTGTCCTAGAAAGGCTCTGACACAAACTTGGTATTCTCTACAGCGAACCGCCCA GTTTGGCCATGCTGAACCACAATGCTGGTGTGTTGATGAAAACCCCTTTCGCCCTTCGG AATTAGGGGAAGAAGGATATTGATCTTCCACTGAGCTCCCAACGTTACTTTTGAACCT GGTTTATGTTCTCCGGCAGGGGAAACCCCTCCCCCAATTTTATAACCGGCTTGTAAAT AAACCAATGAAGTTCAGGATT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_004051
Insert Size:	1700 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).

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:	NM_004051.3 , NP_004042.1
RefSeq Size:	1621 bp
RefSeq ORF:	1032 bp
Locus ID:	622
UniProt ID:	Q02338
Cytogenetics:	3q29
Domains:	adh_short
Protein Families:	Druggable Genome
Protein Pathways:	Butanoate metabolism, Metabolic pathways, Synthesis and degradation of ketone bodies
Gene Summary:	<p>This gene encodes a member of the short-chain dehydrogenase/reductase gene family. The encoded protein forms a homotetrameric lipid-requiring enzyme of the mitochondrial membrane and has a specific requirement for phosphatidylcholine for optimal enzymatic activity. The encoded protein catalyzes the interconversion of acetoacetate and (R)-3-hydroxybutyrate, the two major ketone bodies produced during fatty acid catabolism. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript. Variants 1, 2, and 3 encode the same protein.</p>