

Product datasheet for SC308117

BDH1 (NM_203314) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BDH1 (NM_203314) Human Untagged Clone
Tag:	Tag Free
Symbol:	BDH1
Synonyms:	BDH; SDR9C1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC308117 representing NM_203314. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGGCCACCCGCTCTCCAGACCCCTGTCACGGCTCCAGGAAAAACCCTAAGTGCCTGTGATAGA
GAAAATGGAGCAAGACGCCCACTATTGCTTGGTTCTACTTCCCTTATCCCGATTGGCCGTCGGACTTAT
GCCAGTGGCGGAGCCGGTTGGCAGCAAAGCTGTCTGGTCACAGGCTGTGACTCTGGATTGGGTTTC
TCATTGGCCAAGCATCTGCATTCAAAAGGCTTCCCTTGTGTTTGGTGGCTGCTTGATGAAGACAAAGGC
CATGATGGGTCAAGGAGCTGGACAGCCTAAACAGTGACCGATTGAGAACCGTCCAGCTCAATGTCTGC
AGCAGCGAAGAGGTGGAGAAAGTGGTGGAGATTGTCGGCTCGAGCCTGAAGGACCCTGAGAAAGGCATG
TGGGGCCTCGTTAACAAATGCCGGCATCTCAACGTTCCGGGAGGTGGAGTTCACCAGCCTGGAGACCTAC
AAGCAGGTGGCAGAAGTGAACCTTTGGGGCACAGTGCCGATGACGAAATCCTTTCTCCCCCTCATCCGA
AGGGCCAAAGGCCGCGTCGTCAATATCAGCAGCATGCTGGGCCGATGGCCAACCCGGCCCGCTCCCCG
TACTGCATCACCAAGTTCGGGGTAGAGGCTTTCTCGGACTGCCTGCGCTATGAGATGTACCCCTGGGC
GTGAAGGTCAGCGTGGTGGAGCCCGCACTTCATCGCTGCCACCAGCCTTTACAGCCCTGAGAGCATT
CAGGCCATCGCCAAGAAGATGTGGGAGGAGCTGCCTGAGGTCGTGCGCAAGGACTACGGCAAGAAGTAC
TTTGATGAAAAGATCGCCAAGATGGAGACCTACTGCAGCAGTGGCTCCACAGACAGTCCCCTGTATC
GATGCTGTACACACGCCCTGACCGCCACCACCCCTACACCCGCTACCACCCATGGACTACTACTGG
TGGCTGCGAATGCAGATCATGACCCACTTGCTGGAGCCATCTCCGACATGATCTACATCCGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
Plasmid Map:	<input type="checkbox"/>
ACCN:	NM_203314



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Insert Size:	1032 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).
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:	<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:	<u>NM_203314.2</u>
RefSeq Size:	3546 bp
RefSeq ORF:	1032 bp
Locus ID:	622
UniProt ID:	<u>Q02338</u>
Cytogenetics:	3q29
Protein Families:	Druggable Genome
Protein Pathways:	Butanoate metabolism, Metabolic pathways, Synthesis and degradation of ketone bodies
MW:	38.2 kDa
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 (3) includes an additional exon in the 5' UTR compared to variant 1. Variants 1, 2, and 3 encode the same protein.</p>