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# Product datasheet for RC219591L3V

## BDH1 (NM_004051) Human Tagged ORF Clone Lentiviral Particle

### Product data:

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|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | BDH1 (NM_004051) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | BDH1 |
| **Synonyms:** | BDH; SDR9C1 |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| **Tag:** | Myc-DDK |
| **ACCN:** | NM_004051 |
| **ORF Size:** | 1029 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(RC219591). |
| **OTI Disclaimer:** | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info |
| **OTI Annotation:** | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| **RefSeq:** | NM_004051.3 |
| **RefSeq Size:** | 1621 bp |
| **RefSeq ORF:** | 1032 bp |
| **Locus ID:** | 622 |
| **UniProt ID:** | Q02338 |
| **Cytogenetics:** | 3q29 |
| **Domains:** | adh_short |
| **Protein Families:** | Druggable Genome |

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| | |
|---|---|
| **Protein Pathways:** | Butanoate metabolism, Metabolic pathways, Synthesis and degradation of ketone bodies |
| **MW:** | 38.19 kDa |
| **Gene Summary:** | 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] |