

Product datasheet for **SC113190**

BDH2 (NM_020139) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BDH2 (NM_020139) Human Untagged Clone
Tag:	Tag Free
Symbol:	BDH2
Synonyms:	DHRS6; EFA6R; PRO20933; SDR15C1; UCPA-OR; UNQ6308
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113190 sequence for NM_020139 edited (data generated by NextGen Sequencing)

```
ATGGGTCGACTTGATGGGAAAGTCATCATCCTGACGGCCGCTGCTCAGGGGATTGGCCAA
GCAGCTGCCTTAGCTTTTGCAAGAGAAGGTGCCAAAGTCATAGCCACAGACATTAATGAG
TCCAAACTTCAGGAACTGAAAAAGTACCCGGGATTCAAACCTCGTGCTTGTATGTCACA
AAGAAGAAACAAATTGATCAGTTTGCCAATGAAGTTGAGAGACTTGATGTTCTCTTTAAT
GTTGCTGGTTTTGTCCATCATGGAAGTGCCTGGATTGTGAGGAGAAAGACTGGGACTTC
TCGATGAATCTCAATGTGCGCAGCATGTACCTGATGATCAAGGCATTCTTCTAAAATG
CTTGCTCAGAACTCTGGCAATATTATCAACATGTCTTCTGTGGCTTCCAGCGTCAAAGGA
GTTGTGAACAGATGTGTGTACAGCACAACCAAGGCAGCCGTGATTGGCCTCACAAATCT
GTGGCTGCAGATTCATCCAGCAGGGCATCAGGTGCAACTGTGTGTGCCAGGAACAGTT
GATACGCCATCTCTACAAGAAAGAATACAAGCCAGAGGAAATCCTGAAGAGGCACGGAAT
GATTTCTGAAGAGACAAAAGACGGGAAGATTCGCAACTGCAGAAGAAATAGCCATGCTC
TGCGTGTATTTGGCTTCTGATGAATCTGCTTATGTAAGTGGTAACCCTGTCATCATTGAT
GGAGGCTGGAGCTTGTGA
```

Clone variation with respect to NM_020139.3



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020139 unedited
 CCCCATTTATGTATACGACTCACTATAGGGCGGCCGNAATTCGCACGAGGGTTCTGGA
 GAACGCCATCAGCTCGCTGCTTAAAAATTAACACAGGTTCCATTATGGGTGACTTGAT
 GGGAAAGTCATCATCCTGACGGCCGCTGCTCAGGGGATTGGCCAAGCAGCTGCCTTAGCT
 TTTGCAAGAGAAGGTGCCAAAGTCATAGCCACAGACATTAATGAGTCCAACTTCAGGAA
 CTGGAAAAGTACCCGGTATTCAAACCTCGTGCCTTGATGTCACAAAGAAGAAAACAATT
 GATCAGTTTGCCAATGAAGTTGAGAGACTTGATGTTCTCTTTAATGTTGCTGGTTTTGTC
 CATCATGGAAGTCTCTGGATTGTGAGGAGAAAGACTGGGACTTCTCGATGAATCTCAAT
 GTGCGCAGCATGTACCTGATGATCAAGGCATTCCTTCTAAAATGCTTGCTCAGAAATCT
 GGCAATATTATCAACATGCTTCTGTGGCTTCCAGCGTCAAAGGTGGGTCTGTCTCCTTC
 CGAGGACTGCGATGCTCATACACGCACATCATTAAAGAGCTCTGCGTTTGGGAACAGGCAT
 AGCAGAGATTATAATTTCAAGTATTGAAATGATTTCAAACCTGCTTTTTTCAAATTTGGT
 ATTAAGTTCCTTAACACAGATCTTTTGTCTCGATGTGAGCCAGTGGTAAAATTAATT
 AAAATGTGGGGTATTTTTGCCCTCCCTTTATTCTTTCTAATGGACATGGAATGAACAT
 CAAACTGGGAGAAAGAAACCATTACATTTAATTAATTTAAAATAGTGTATTGAGCACCG
 GTATGTGCTCTGGCCATAAAGAATCACAGTCCAACTAGGAGCAGGCAGCAACATCANTT
 CTCATGTGATGAATAAACAGAGTTGTCAAGCGCTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_020139 unedited
 CCGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGAGTTCAATATTTTTATT
 TCTTTACAATGATTTTCAAGAGATTACAAAGAGATTAATACTTAAAGAATCAGACTC
 TTGCAAACAGTGACATCATAAAAAGAGCTTATTTTCATTAACATGTGATTAACAGGAAG
 GAGATGATTGGTGAGTTTTCTTCGTAACCAGGTTCACTGTGGATAGGAAGGCCTGCCTT
 CCTTCCCACCATGGAGATCCTAAAATCACAAAGCTCCAGCCTCCATCAATGATGACAGGGT
 TACCAGTTACATAAGCAGATTCATCAGAAGCCAAATACACGCAGAGCATGGCTATTTCTT
 CTGCAGTTGCGAATCTTCCCGTCTTTTGTCTTTCAGGAAATCATTCCGTGCCTCTTCAG
 GATTTCTCTGGCTTGATTTCTTCTTGTAGAGATGGCGTATCAACTGTTCTGGGCACA
 CACAGTTGCACCTGATGCCCTGTGGATGAAATCTGCAGCCACAGATTTTGTGAGGCCAA
 TCACGGCTGCCTTGGTTGTGCTGTACACACATCTGTTCAACTCCTGAGGGTGGAGGAA
 AGGTTCAACCATTGAAGGAATAAAAAATGATTTTCTTCAGGAAAGGTACACAAATAAG
 TTTTCCCAGTAGCCATTTTCATGCTTTTCTCCACATTCCTCCCTTTTAAAAGATTGAA
 TCAGATTTTTTCTTCATAGAGTCAGTCTCTGATCTAGGAAAAATATCAGTATAGCACAC
 TTATTGAGACTTAATGAATGCTGAACTACTTAAATGGGAGCCTTAGTTCTATCATCAGTG
 CCTACTCTTAGCCGATTCAAGGAAATGAGATTTTACCAACCAACTAACCGGAGGCTAG
 CCCTTCTACTTCTCTGGGAGGAGAAAGGGAACC

Restriction Sites:

NotI-NotI

ACCN:

NM_020139

Insert Size:

2000 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_020139.3 , NP_064524.3
RefSeq Size:	2936 bp
RefSeq ORF:	738 bp
Locus ID:	56898
UniProt ID:	Q9BUT1
Cytogenetics:	4q24
Domains:	adh_short
Protein Families:	Druggable Genome
Protein Pathways:	Butanoate metabolism, Metabolic pathways, Synthesis and degradation of ketone bodies
Gene Summary:	Dehydrogenase that mediates the formation of 2,5-dihydroxybenzoic acid (2,5-DHBA), a siderophore that shares structural similarities with bacterial enterobactin and associates with LCN2, thereby playing a key role in iron assimilation and homeostasis. Plays a role in susceptibility to bacterial infection by providing an assimilable source of iron that is exploited by pathogenic bacteria (By similarity). Also acts as a 3-hydroxybutyrate dehydrogenase (PubMed:16380372).[UniProtKB/Swiss-Prot Function]