

Product datasheet for **MC203222**

Bdh2 (NM_027208) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bdh2 (NM_027208) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bdh2
Synonyms:	1810026B04Rik; Dhrr6
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC036998 CCACGCGTCCGGTGACTTCTCCTGCGCAGAGATCTGAAGTTTGTCTCCTGAAGGAATCTGGAGGACTGTG TGGACTACTCTTCTAAAGATCCACTATGGGCCGACTGGACGGCAAAGTTATTGCTCTGACAGCTGCCGC TCAAGGGATTGGACGGGCATCCGCATTAGCTTTTGAAGAGAAGGAGCCAAAGTCATAGCCACAGATATC AACGAGTCCAAACTCCAGGAGCTGGAAAGTTACCGAGGTATTCAAACCTCGAGTCCTTGATGTCACAAAGA AGAGACAGATTGATCAGTTTGCCTCAGAAATCGAGAGAATTGATGTTCTCTTTAATGTTGCTGGTTTTGT CCACCACGGAACCATCCTGGATTGCGAGGAAAAAGACTGGGACTTCTCAATGAATCTCAACGTCCGCAGC ATGTTCTGATGATCAAAGCATTCTTCCCAAAATGCTTGCTCAGAAGTCAGGCAACATTATCAACATGT CGTCTGTGGCCTCCAGCATCAAAGGGTGGAGAACAGATGTGTGTACAGTGCTACCAAGGCGCTGTGAT CGGTCTCACCAAGTCCGTGGCTGCAGACTTCATCCAACAGGCATCAGATGCAACTGTGTGTGCCAGGA ACGGTTGACACCCCATCTCTGCAAGAAAGAATAACAAGCCAGAGACAATCCCAAAGAGGCACTGAAAACCT TCCTAAACAGACAAAAGACGGGAAGTTTTGCGTGGCCGAAGAGGTCGCTCTGCTGCGTATACCTGGC CTCGGACGAGTACGCCTATGTAACCTGGCAACCCTGTCATCATTGATGGGGCTGGAGCCTGTGACCGCA GGATCCCTGCTGGGAAGACAGGCCCTTCTAGCCACGGAGCAAAGCAAGCTGCCTGGGTGATCATCTCTT CTGAGAGTGACATTATGAAAATAAGCCCTTTAGTGATTGTTCCCGAGAGTGTGACTCTTTAATAGTCTC TCGTCTCTTGAAGCTGTGGTAAATAAATAAATAAATGTATTGATTTGTGGCAAAAAAAAAAAAAA A
Restriction Sites:	RsrII-NotI
ACCN:	NM_027208
Insert Size:	738 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).



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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>BC036998</u> , <u>AAH36998</u>
RefSeq Size:	1051 bp
RefSeq ORF:	738 bp
Locus ID:	69772
UniProt ID:	<u>Q8JZV9</u>
Cytogenetics:	3 G3
Gene Summary:	<p>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 (PubMed:20550936, PubMed:24863067). Plays a role in susceptibility to bacterial infection by providing an assimilable source of iron that is exploited by pathogenic bacteria (PubMed:24863067). Also acts as a 3-hydroxybutyrate dehydrogenase (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>