

Product datasheet for **RN213039**

Bdh2 (NM_001106473) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bdh2 (NM_001106473) Rat Untagged Clone
Tag: Tag Free
Symbol: Bdh2
Synonyms: Dhhrs6
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN213039 representing NM_001106473
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTTTGGATTGCACTGCAGGATCCACCATGGGCCCTGGAAGGGAAAGTCATCGTCCTGACAGCTG
CCGCTCAAGGGATCGGCCGGCTTCTGCTTTAGCTTTGCAAGAGAAGGAGCCAAAGTCATAGCCACAGA
TATCAACGAGGCCAACTCCAGGAGCTGGAAAATTACCCAGGTATTCAAACCTCGAGTCCTTGATGTCACA
AAGAAGAGACAAATTGATCAGTTCGCCTCAGAAATTGAGAAGATTGATGTTCTCTTTAACGTTGCTGGTT
TTGTCCACCACGGAACCATCCTGGATTGCGAGGAAAAAGACTGGGACTTCTCCATGAATCTCAACGTCCG
CAGCATGTACCTGATGATCAAGGCATTCCTGCCAAAAATGCTTGCTCAGAAATCTGGCAACATTATCAAC
ATGTCTTCCGTGGCTCCAGCATCAAAGGGTGGAGAACAGATGTGTGTACAGTGCAACCAAGGCAGCTG
TGATCGGCCTACCAAGTCCGTGGCTGCAGACTTCATCCAGCAGGGCATCAGATGCAACTGTGTGTGCC
AGGAACGGTTGACACCCATCTCTGCAAGAAAGAATAACAAGCCAGAGATGATCCCAAAGAGGCACTGAAA
GCTTTCTAAACAGACAGAAGACCGGAAGTTTGCATCTGCAGAAGAGGTCGCCCTGCTCTGCGTATACT
TGGCCTCAGATGAGTCAGCCTATGTGACTGGCACCCCTGTCGTCATCGATGGCGGTTGGAGTCTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001106473
Insert Size: 768 bp



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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_001106473.1 , NP_001099943.1
RefSeq Size:	1156 bp
RefSeq ORF:	768 bp
Locus ID:	295458
UniProt ID:	D4A1J4
Cytogenetics:	2q43
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 (By similarity).[UniProtKB/Swiss-Prot Function]