

Product datasheet for **RR212807**

Bdh1 (NM_053995) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bdh1 (NM_053995) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Bdh1
Synonyms: Bdh
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212807 representing NM_053995
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATGCTGGCCGCCGCTCTTTCCAGACCCCTGTCACAGCTCCCAGGAAAAGCTCTAAGTGTCTGTGATA
GAGAAAATGGGACAAGACACACTGTTGTTTTACCCAGCTTCTTTCAGCCCTGACACCCGTCGGACCTA
CACCAGTCAGGCAGATGCGGCTAGTGGCAAAGCTGTCCTGGTTACAGGCTGTGACTCTGGATTTGGGTT
CTTTGGCCAAGCATCTACACTCAAAGGTTTCCTTGTATTTGCTGGATGTTTGTGAAGGACAAAGGCG
ATGCTGGGGTCAGGGAGCTGGACAGCCTGAAGAGTGACCGGCTGAGAACCATCCAGCTCAATGTCTGCAA
CAGTGAGGAGGTGGAGAAAGCGGTGGAGACCGTCCGCTCCGGCCTGAAGGATCCTGAGAAGGGAATGTGG
GGCCTGGTTAACAAACGCAGGCATCTCAACGTTTGGGGAGGTGGAGTTCACTAGCATGGAGACGTATAAGG
AGGTGGCCGAAGTGAACCTCTGGGAACTGTGCGCACAACAAAATCCTTCCTTCCCTTCCGAAGAGC
CAAAGGCCGTGTTGTTAACATCAGCAGCATGCTGGTTCGATGGCCAACCCAGCCCGCTCACCATACTGC
ATCACCAAGTTTGGGGTAGAGGCTTCTCGACTGCCTACGCTATGAGATGCACCCTCTGGGTGTGAAGG
TCAGTGTGGTGGAGCCTGGCAACTTCATAGCTGCCACCAGCCTCTATAGCCCTGAGCGTATCCAGGCCAT
TGCCAAGAAGATGTGGGATGAGCTGCCAGAGGTGTCGCAAGACTATGGCAAGAAGTACTTCGATGAA
AAGATTGCCAAGATGGAGACCTACTGCAACAGCGGTTCCACCGATACGTCCTCCGTCATCAACGCTGTCA
CCCATGCCCTGACTGCTGCCACCCCTTATACCCGCTACCATCCCATGGACTACTACTGGTGGCTGCGGAT
GCAGGTATGACCCATTTCTGGAGCCATCTCTGACAAGATCTACATACAC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR212807 representing NM_053995
 Red=Cloning site Green=Tags(s)

MMLAARLSRPLSQLPGKALSVCDRENGTRHTLLFYPASFSPDTRRITYTSQADAASGKAVLVTGCDSGFGF
 SLAKHLHSGKGLVFAGLLKDKGDAGVRELDLKSRLRTIQLNVCNSEEVEKAVETVRSGLKDPEKGMW
 GLVNNAGISTFGEVEFTSMETYKEVAEVLWGTVRTTKSFLPLLRRAKGRVVNISSMLGRMANPARSPYC
 ITKFGVEAFSDCLRYEMHPLGVKVSVEPEGNFIAATSLYSPERIQAIKKMWDELPEVVRKDYGKKYFDE
 KIAKMETYCNSGSDTSSVINAVTHALTAATPYTRYHPMDYYWLLRMQVMTHFPGAISDKIYIH

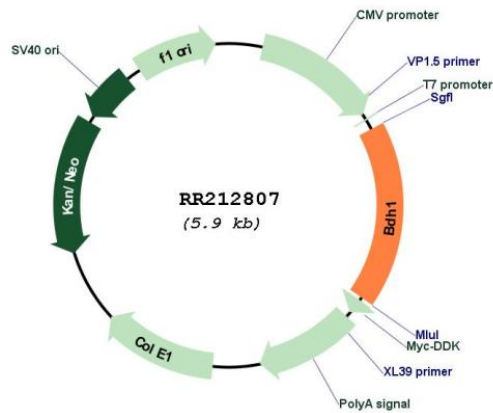
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053995

ORF Size: 1032 bp

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.
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_053995.3 , NP_446447.2
RefSeq Size:	1674 bp
RefSeq ORF:	1035 bp
Locus ID:	117099
UniProt ID:	P29147
Cytogenetics:	11q22
MW:	38.3 kDa
Gene Summary:	mitochondrial membrane enzyme that is dependent on phosphatidylcholine for optimal function [RGD, Feb 2006]