

Product datasheet for **MG203075**

Bdh2 (NM_027208) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Bdh2 (NM_027208) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Bdh2 |
| Synonyms: | 1810026B04Rik; Dhrr6 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG203075 representing NM_027208 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCCGACTGGACGGCAAAGTTATTGTCTGACAGCTGCCGCTCAAGGGATTGGACGGGCATCCGCAT
TAGCTTTTGCAAGAGAAGGAGCCAAAGTCATAGCCACAGATATCAACGAGTCCAACTCCAGGAGCTGGA
AAGTTACCGAGGTATTCAAACGAGTCTTGTGTCACAAAGAAGAGACAGATTGATCAGTTTGCCTCA
GAAATCGAGAGAATTGATGTTCTTTAATGTTGCTGGTTTTGTCCACCACGGAACCATCCTGGATTGCC
AGGAAAAAGACTGGGACTTCTCAATGAATCTCAACGTCAGCATGTTCTGATGATCAAAGCATTCTCT
TCCAAAATGCTTGTCTCAGAAGTCAGGCAACATTATCAACATGTCGTCTGTGGCCTCCAGCATCAAAGGG
GTGGAGAACAGATGTGTGTACAGTGCTACCAAGGCGGCTGTGATCGGTCTCACCAGTCCGTGGCTGCAG
ACTTCATCCAACAGGGCATCAGATGCAACTGTGTGTCCAGGAACGGTTGACACCCCATCTCTGCAAGA
AAGAATACAAGCCAGAGACAATCCCAAAGGCACTGAAAACCTTCTAAACAGACAAAAGACGGGAAGG
TTTGCCTCGGCCGAGAGGTGCTCTGCTCTGCGTATACCTGGCCTCGGACGAGTCAGCCTATGTAACCTG
GCAACCTGTATCATTGATGGGGCTGGAGCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203075 representing NM_027208
 Red=Cloning site Green=Tags(s)

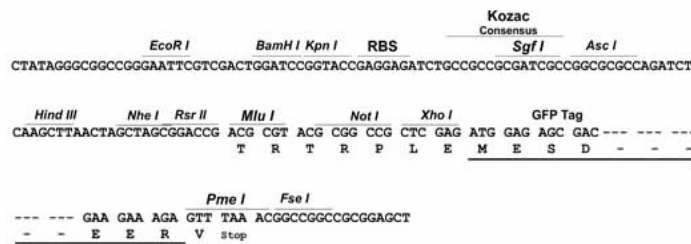
MGRLDGKVIVL TAAAQGIGRASALAFAREGAKVIATDINESKLQELESYRGIQTRVLDVTKKRQIDQFAS
 EI ERIDVLFNVAGFVHHGTILDCEEKDWDFSMNLNVRSMFLMIKAF LPKMLAQKSGNIINMSSVASSIKG
 VENRCVYSATKAAVIGLTKSVAADFIQQGIRNCVCPTVDTPSLQERI QARDNPKEALKTF LNRQKTGR
 FASAEVALLCVYLASDESAYVTGNPVIIDGGWSL

TRTRPLE - GFP Tag - V

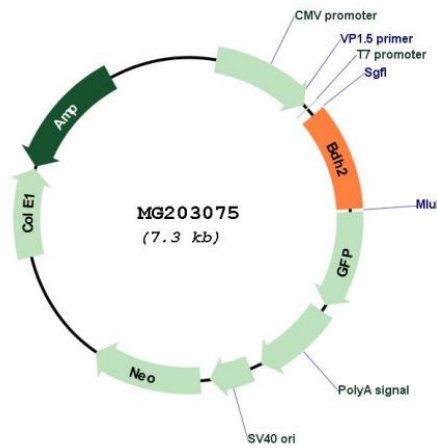
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_027208

ORF Size: 735 bp

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| 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_027208.2 |
| RefSeq Size: | 1051 bp |
| RefSeq ORF: | 738 bp |
| Locus ID: | 69772 |
| UniProt ID: | Q8JZV9 |
| Cytogenetics: | 3 G3 |
| 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 (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] |