

Product datasheet for **MG203874**

Bcdin3d (NM_029236) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bcdin3d (NM_029236) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Bcdin3d
Synonyms: 4930556P03Rik; AV138748
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203874 representing NM_029236
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCGGCAGACGGGACATTGTCAAGAGGGGGCGTTGGAGAGGCCGTGGAGGAAGAGCATCCCGGGGCTC
TGGAAACCGGGGCCGCCCGTTCGGAAATTTCCCTCATTATCCCGCTTCCACCCTCCCGAGCAAAGGCT
CCGCCTTCTGCCCGGAGCTTCTTCGGCAGCTTCCCTCCCGAGGGTCCCGAGAAGAGGCCGATTCTA
GGGCTCGACGTGGGTGTAACCTCCGGGATCTGAGTGTGGCTCTGTACAAACATTTCTTTCCCTCGCG
ATGGGGAGACCTGCTCCGGTGCATCCAGAGAACTCCGCATCCTCTGCTGTGATATAGATCCAGTCCCTTGT
GGAGAGGGCTGAAAGAGACTGTCCCTTCCCTGAGGCTTTGACCTTTATCACCTGGACATCATGGATCAA
GAGAGCAGGAAGGTTCCCTTGAGTTCTTTCTTGAGCCAGTTTGGGCGTTCGGTTTTTGACATGGTCTTCT
GCATGTGAGTAACCATGTGGATTCATCTGAACCACGGGGACCGTGGTCTGTGCGAGTTTCTGGCCACGT
CTCCTCTCTGACAGTACCTCCTCGTGGAGCCACAACCCTGGAAGTGTACCGGGCAGCTGCAAGGCGC
CTGCGCAAGCTGGGACTCCACAGTTTTGATCACTTCCGCTCGCTGGCCATCCGAGGTGACATGGCCAAGC
AGATCGTGGGATCTTGACGCAGGACCAGGGATGGAGTTAGCGTGTCTTTCGCAACACCAGTTGGGA
CCGAAGCCTTCTGCTTTCAGAGCAAAGCACACCCACGAGACTCAGGCAATCCCCGAATCGTCAACAAAA
GAGACACGGACAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203874 representing NM_029236
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MAADGTL SRGGVGEAVEEEHPGALEPGAAPFGNFPHYSRFHPPEQRLRLLPPELLRQLFPPEGPEKRPIL
 GLDVGCNSGDL SVALYKHFLSPRDGETCSGASRELRLCCDIDPVL VERAERDCPFPEALTFITLDIMDQ
 ESRKVPLSSFLSQFGRSVFDMVMFCMSVTMWIHLNHGDRGLCEFLAHVSSLCSYLLVEPQPWKCYRAAARR
 LRKLG LHSFDHFRSLAIRGDMAKQIVRILTQDHGMELACCFGNTSWDRSLLLFRAKHTHE TQAIPESTK
 ETRTD

TRTRPLE - GFP Tag - V

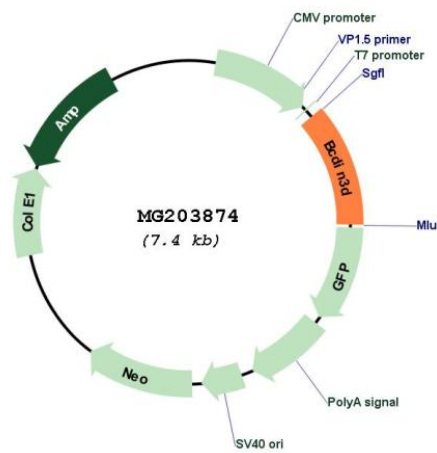
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_029236

ORF Size: 855 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_029236.1 , NP_083512.1
RefSeq Size:	1273 bp
RefSeq ORF:	858 bp
Locus ID:	75284
UniProt ID:	Q91YP1
Cytogenetics:	15 F1
Gene Summary:	O-methyltransferase that specifically monomethylates 5'-monophosphate of cytoplasmic histidyl tRNA, acting as a capping enzyme. Less efficiently, also methylates the 5' monophosphate of pre-miRNAs, acting as a negative regulator of miRNA processing. The 5' monophosphate of pre-miRNAs is recognized by DICER1 and is required for pre-miRNAs processing: methylation at this position reduces the processing of pre-miRNAs by DICER1. Able to mediate methylation of pre-miR-145, as well as other pre-miRNAs. There is some controversy about the methylation of pre-miR-145, since the dimethylation first described as the specific enzymatic activity cannot be reproduced by a more recent work which observes a monomehtylation of pre-miR-145 but two orders weaker than the methylation of cytosolic histidyl tRNA.[UniProtKB/Swiss-Prot Function]