

Product datasheet for MR203874

Bcdin3d (NM_029236) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bcdin3d (NM_029236) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bcdin3d
Synonyms:	4930556P03Rik; AV138748
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203874 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCGGCAGACGGGACATTGTCAAGAGGGGGCGTTGGAGAGGCCGTGGAGGAAGAGCATCCCGGGGCTC
TGGAAACCGGGGCGCCCGTTCGAAATTTCCCTCATTATCCCGTTCACCCTCCCGAGCAAAGGCT
CCGCCTTCTGCCCGGAGCTTCTTCGGCAGCTTCCCTCCCGAGGGTCCCGAGAAGAGGCCGATTCTA
GGGCTCGACGTGGGTGTAACCTCCGGGATCTGAGTGTGGCTCTGTACAAACATTTCTTTCCCTCGCG
ATGGGGAGACCTGCTCCGGTGCATCCAGAGAACTCCGCATCCTCTGCTGTGATATAGATCCAGTCCCTTGT
GGAGAGGGCTGAAAGAGACTGTCCCTTCCCTGAGGCTTTGACCTTTATCACCTGGACATCATGGATCAA
GAGAGCAGGAAGGTTCCCTTGAGTTCTTTCTTGAGCCAGTTTGGGCGTTCGGTTTTGACATGGTCTTCT
GCATGTGAGTAACCATGTGGATTCATCTGAACCACGGGGACCGTGGTCTGTGCGAGTTTCTGGCCACGT
CTCCTCTCTGAGCTACCTCCTCGTGGAGCCACAACCCTGGAAGTGTACCGGGCAGCTGCAAGGCGC
CTGCGCAAGCTGGGACTCCACAGTTTGTGATCACTCCGCTCGCTGGCCATCCGAGGTGACATGGCCAAGC
AGATCGTGGGATCTTGACGCAGGACCAGGGATGGAGTTAGCGTGTCTTTCGCAACACCAGTTGGGA
CCGAAGCCTTCTGCTCTCAGAGCAAAGCACACCCACGAGACTCAGGCAATCCCCGAATCGTCAACAAAA
GAGACACGGACAGAT

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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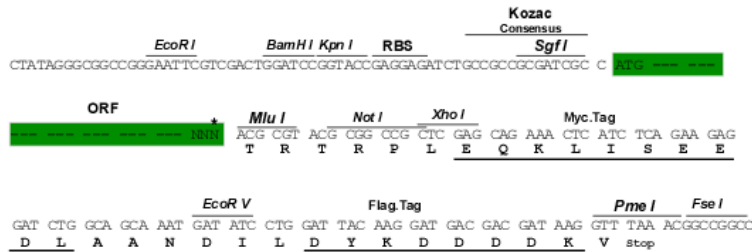
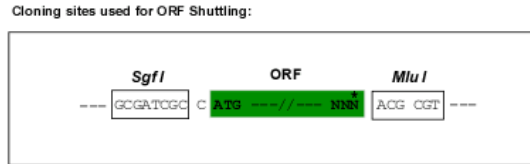
Protein Sequence: >MR203874 protein sequence
 Red=Cloning site Green=Tags(s)

MAADGTLRGGVGEAVEEEHPGALEPGAAPFGNFPHYSRFHPPEQRLRLLPPELLRQLFPPEGPEKRPIL
 GLDVGCNSGDL SVALYKHFLSPRDGETCSGASRELRLCCDIDPVLVERAERDCPFPEALTFITLDIMDQ
 ESRKVPLSSFLSQFGRSVFDMVFCMSVTMWIHLNHGDRGLCEFLAHVSSLC SYLLVEPQPWKCYRAAARR
 LRKLGHSFDHFRSLAIRGDMAKQIVRILTQDHGMELACCFGNTSWDRSLLLFRAKHTHETQAIPESTK
 ETRTD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_029236

ORF Size: 858 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:

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_029236.2](#)

RefSeq Size: 1271 bp

RefSeq ORF: 858 bp

Locus ID: 75284

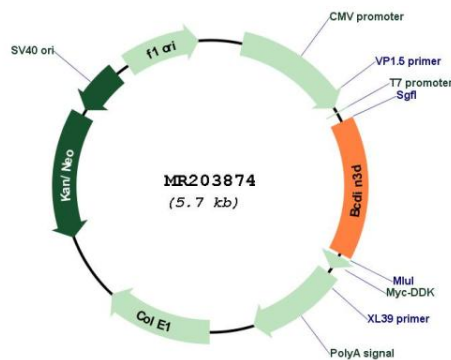
UniProt ID: [Q91YP1](#)

Cytogenetics: 15 F1

MW: 32 kDa

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]

Product images:



Circular map for MR203874