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Product datasheet for RC208818

BCDIN3D (NM_181708) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BCDIN3D (NM_181708) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BCDIN3D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208818 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGTGCCCACGGAACTGGATGGAGGGAGTGTTAAGGAGACCGCAGCGGAAGAGGAATCGCGAGTTC
TGGCACCTGGCGCCGCCCCGTTCGGAAATTTTCCTCATTATTCTCGCTTCCACCCTCCGGAGCAACGGCT
CCGCCTCCTGCCCCCGGAGCTGCTTCGACAGCTCTTTCCTGAGAGTCCCGAGAACGGGCCGATTCTGGGG
CTCGACGTGGGGTGTAACTCCGGGGATCTGAGTGTGGCTCTATACAAACACTTCCTCTCCCTACCTGACG
GGGAAACCTGCTCAGATGCCTCAAGAGAATTCCGTCTCCTCTGCTGCGACATAGATCCAGTCCTGGTGAA
GCGAGCCGAAAAAGAATGTCCTTTTCCTGATGCCTTGACTTTTATCACCCTGGACTTCATGAATCAAAGG
ACCCGGAAGGTTCTCTTGAGCTCTTTCTTAAGCCAATTTGGACGTTCAGTTTTTGACATTGGCTTCTGCA
TGTCAATAACCATGTGGATTCATCTGAATCATGGAGACCATGGCCTATGGGAGTTCCTGGCCCATCTTTC
CTCCCTCTGCCACTACCTCCTTGTGGAGCCCCAACCCTGGAAGTGTTACCGGGCAGCTGCAAGGCGTCTC
CGAAAGCTGGGACTCCATGATTTTGACCACTTCCACTCCCTTGCCATCCGAGGTGACATGCCCAATCAGA
TTGTGCAGATCTTGACCCAGGATCATGGCATGGAATTAATATGTTGCTTTGGCAACACCAGTTGGGACAG
AAGCCTTCTGCTCTTCAGGGCAAAACAAACCATAGAGACTCATCCAATCCCTGAATCACTGATAGAAAAA
GGGAAAGAAAAGAACAGATTAAGTTTCCAGAAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC208818 protein sequence
Red=Cloning site Green=Tags(s)

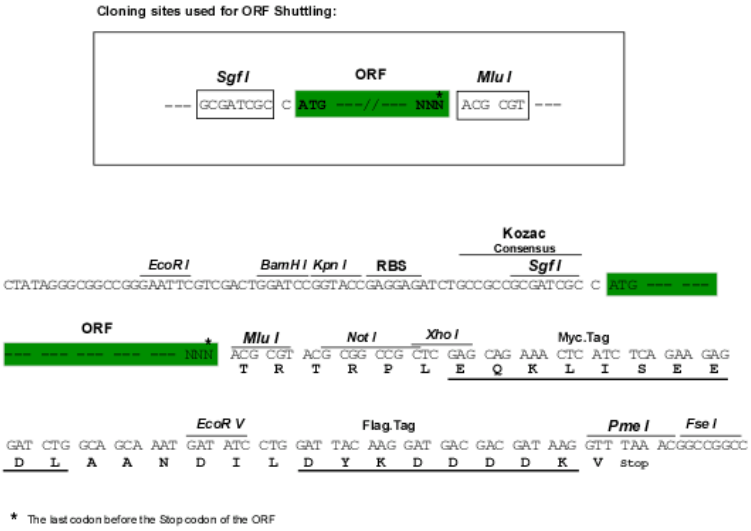
MAVPTELDGGSVKETAAEEESRVLAPGAAPFGNFPHYSRFHPPEQRLRLLPPELLRQLFPESPENGPILG
LDVGCNSGDLSVALYKHFLSLPDGETCSDASREFRLLCCDIDPVLVKRAEKECPFPDALTFITLDFMNQR
TRKVLLSSFLSQFGRSVFDIGFCMSITMWIHLNHGDHGLWEFLAHLSSLCHYLLVEPQPWKCYRAAARRL
RKLGLHDFDHFHSLAIRGDMPNQIVQILTQDHGMELICCFGNTSWDRSLLLFRAKQTIETHPIPESLIEK
GKEKNRLSFQKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6353_h06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181708

ORF Size: 876 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_181708.3

RefSeq Size: 3266 bp

RefSeq ORF: 879 bp

Locus ID: 144233

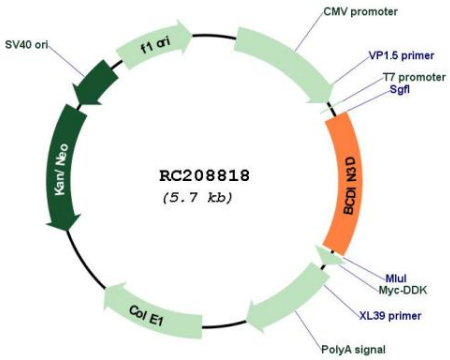
UniProt ID: Q7Z5W3

Cytogenetics: 12q13.12

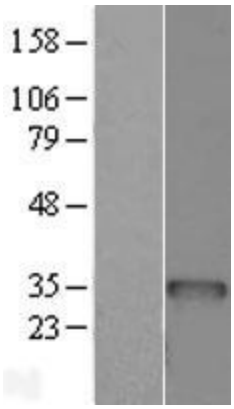
MW: 33.2 kDa

Gene Summary: This gene encodes an RNA methyltransferase which belongs to the rossmann fold methyltransferase family, and serves as a 5'-methylphosphate capping enzyme that is specific for cytoplasmic histidyl tRNA. The encoded protein contains an S-adenosylmethionine binding domain and uses the methyl group donor, S-adenosylmethionine. This gene is overexpressed in breast cancer cells, and is related to the tumorigenic phenotype and poor prognosis of breast cancer. The encoded protein is thought to promote the cellular invasion of breast cancer cells, by downregulating the expression of tumor suppressor miRNAs through the dimethylation of the 5-monophosphate of the corresponding precursor miRNAs. [provided by RefSeq, Apr 2017]

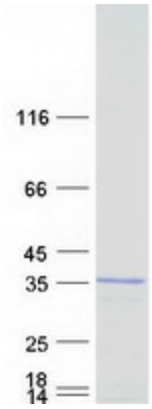
Product images:



Circular map for RC208818



Western blot validation of overexpression lysate (Cat# [LY405655]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208818 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BCDIN3D protein (Cat# [TP308818]). The protein was produced from HEK293T cells transfected with BCDIN3D cDNA clone (Cat# RC208818) using MegaTran 2.0 (Cat# [TT210002]).