

Product datasheet for **RG208818**

BCDIN3D (NM_181708) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BCDIN3D (NM_181708) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BCDIN3D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208818 representing NM_181708 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTGCCACGGAAGTGGATGGAGGGAGTGTAAAGGAGACCGCAGCGGAAGAGGAATCGCGAGTTC
TGGCACCTGGCGCCGCCCGTTCGGAAATTTTCCTCATTATTCTCGTTCACCCCTCCGGAGCAACGGCT
CCGCCTCTGCCCCGGAGCTGCTTCGACAGCTTTTCTGAGAGTCCCGAGAACGGGCCGATTCTGGGG
CTCGACGTGGGGTGTAACTCCGGGGATCTGAGTGTGGCTCTATACAAACACTTCTCTCCCTACCTGACG
GGGAAACCTGCTCAGATGCCTCAAGAGAATTCGCTCCTCTGCTGCGACATAGATCCAGTCCCTGGTGAA
GCGAGCCGAAAAAGAATGTCCTTTTCTGATGCCTTGACTTTTATCACCCCTGGACTTCATGAATCAAAGG
ACCCGGAAGTTCCTTGTAGCTCTTTCTTAAGCCAATTTGGACGTTCAAGTTTTGACATTGGCTTCTGCA
TGTCAATAACCATGTGGATTCATCTGAATCATGGAGACCATGGCCTATGGGAGTTCCTGGCCCATCTTTC
CTCCCTCTGCCACTACCTCCTTGTGGAGCCCCAACCCCTGGAAGTGTACCGGGCAGCTGCAAGGCGTCTC
CGAAAGCTGGGACTCCATGATTTTGACCACTTCCACTCCCTTGCCATCCGAGGTGACATGCCAATCAGA
TTGTGCAGATCTTGACCCAGGATCATGGCATGGAATTAATATGTTGCTTTGGCAACACCAGTTGGGACAG
AAGCCTTCTGCTTTCAGGGCAAAACAACCATAGAGACTCATCCAATCCCTGAATCACTGATAGAAAAA
GGGAAAGAAAAGAACAGATTAAGTTTCCAGAAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208818 representing NM_181708
 Red=Cloning site Green=Tags(s)

MAVPTELDGGSVKETAAEEESRVLAPGAAPFGNFPHYSRFHPPEQRLRLLPPELLRQLFPESPENGPILG
 LDVGCNSGDL SVALYKHFLSLPDGETCSDASREFRLLCCDIDPVLVKRAEKECPFPDALTFITLDFMNQR
 TRKVLSSFLSQFGRSVFDIGFCMSITMWIHLNHGDHGLWEFLAHLSSLCHYLLVEPQPWKCYRAAARRL
 RKLGLHDFDHFHSLAIRGDMPNQIVQILTQDHGMELICCFGNTSWDRSLLLFRAKQTIETHPIPESLIEK
 GKEKNRLSFQKQ

TRTRPLE - GFP Tag - V

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: 1495 bp

RefSeq ORF: 879 bp

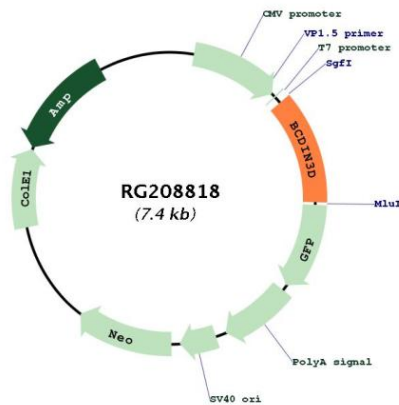
Locus ID: 144233

UniProt ID: [Q7Z5W3](#)

Cytogenetics: 12q13.12

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 RG208818