

## Product datasheet for **RR206088L4V**

### **Bcdin3d (NM\_001108751) Rat Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Bcdin3d (NM_001108751) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Bcdin3d
Synonyms:	RGD1306433
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001108751
ORF Size:	855 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR206088).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_001108751.1</a> , <a href="#">NP_001102221.1</a>
RefSeq Size:	1254 bp
RefSeq ORF:	858 bp
Locus ID:	363001
UniProt ID:	<a href="#">D4ABH7</a>
Cytogenetics:	7q36



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**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]