

Product datasheet for **KN208818RB**

BCDIN3D Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	BCDIN3D
Locus ID:	144233
Components:	KN208818G1 , BCDIN3D gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) KN208818G2 , BCDIN3D gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN208818RBD , donor DNA containing left and right homologous arms and RFP-BSD functional cassette. GE100003 , scramble sequence in pCas-Guide vector
RefSeq:	<u>NM_181708</u>
UniProt ID:	<u>Q7Z5W3</u>
Synonyms:	BCDIN3 domain containing
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]



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Product images:

