

Product datasheet for KN214918RB

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KDM5B 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-BSDSymbol:KDM5BLocus ID:10765

Components: KN214918G1, KDM5B gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN214918G2, KDM5B gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN214918RBD, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

Disclaimer: These products are manufactured and supplied by OriGene under license from ERS. The kit is

designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the

experimental process.

RefSeq: <u>NM 006618, NM 001314042, NM 001347591</u>

UniProt ID: Q9UGL1

Synonyms: CT31; JARID1B; PLU-1; PLU1; PPP1R98; PUT1; RBBP2H1A

Summary: This gene encodes a lysine-specific histone demethylase that belongs to the jumonji/ARID

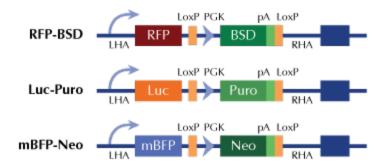
domain-containing family of histone demethylases. The encoded protein is capable of

demethylating tri-, di- and monomethylated lysine 4 of histone H3. This protein plays a role in the transcriptional repression or certain tumor suppressor genes and is upregulated in certain cancer cells. This protein may also play a role in genome stability and DNA repair. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Nov 2016]



Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter