

## Product datasheet for **KN214918**

### KDM5B Human Gene Knockout Kit (CRISPR)

#### Product data:

**Product Type:** Knockout Kits (CRISPR)  
**Format:** 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control  
**Donor DNA:** GFP-puro  
**Symbol:** KDM5B  
**Locus ID:** 10765  
**Components:** **KN214918G1**, KDM5B gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAGGCAGGAAGCTCGCCAGC  
**KN214918G2**, KDM5B gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGCGGGCCCCGGCCCCGAG  
**KN214918D**, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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GGGGATCATG TAACTCGCCT T

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**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:**

[NM\\_006618](#), [NM\\_001314042](#), [NM\\_001347591](#)

**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:

