

Product datasheet for **KN214878**

JMJD1C 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: JMJD1C
Locus ID: 221037
Components: **KN214878G1**, JMJD1C gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ACGAGGCACGTTCCGGAGCGC
KN214878G2, JMJD1C gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGTCGCCGACCGCCACACAC
KN214878D, 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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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_001282948](#), [NM_001318153](#), [NM_001318154](#), [NM_004241](#), [NM_032776](#), [NR_134512](#), [NM_001322252](#), [NM_001322254](#), [NM_001322258](#)

UniProt ID:

[Q15652](#)

Synonyms:

TRIP8

Summary:

The protein encoded by this gene interacts with thyroid hormone receptors and contains a jumonji domain. It is a candidate histone demethylase and is thought to be a coactivator for key transcription factors. It plays a role in the DNA-damage response pathway by demethylating the mediator of DNA damage checkpoint 1 (MDC1) protein, and is required for the survival of acute myeloid leukemia. Mutations in this gene are associated with Rett syndrome and intellectual disability. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]

