

## Product datasheet for **KN202428RB**

### SUV39H1 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:	SUV39H1
Locus ID:	6839
Components:	<b>KN202428G1</b> , SUV39H1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN202428G2</b> , SUV39H1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN202428RBD</b> , donor DNA containing left and right homologous arms and RFP-BSD functional cassette. <b>GE100003</b> , 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\\_001282166](#), [NM\\_003173](#)

**UniProt ID:** [O43463](#)

**Synonyms:** H3-K9-HMTase 1; KMT1A; MG44; SUV39H

**Summary:** This gene encodes an evolutionarily-conserved protein containing an N-terminal chromodomain and a C-terminal SET domain. The encoded protein is a histone methyltransferase that trimethylates lysine 9 of histone H3, which results in transcriptional gene silencing. Loss of function of this gene disrupts heterochromatin formation and may cause chromosome instability. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]



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## Product images:

