

Product datasheet for **KN202428**

SUV39H1 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:	SUV39H1
Locus ID:	6839
Components:	<p>KN202428G1, SUV39H1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCTGCAGGACCTGTGCCGCC</p> <p>KN202428G2, SUV39H1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGTCCTCTTAGAGATACCG</p> <p>KN202428D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

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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GCTTGATGTC CCCTGGCCAC GCTGGGGGTG TTAGGTGATG TATGGGATAT CCTAGAACTA GTCTTGTA  
ATCCAAAAA TTTTGAATTC CAAAACACAT CTGGCCAGG AGTTTGAGAT AAGGGATTAA AGACCACTCT  
TTCCAGTTAC GCCTTTGTTT GGTGCCCTGG AGGTTTTAAT CTTGTCCTCC CATCCGCCCC ACCTCGGGG  
ACTGCATCCT ACTGAGATGG GGGGTTGTTC TCTTTCTTTT GCAAAGTGGA GAGAGGGGTG ATCAGGTCCT  
GAACCCAAAG CAGGTTTGCA GGCAGTTTTA GGAATGACAT GGAGTTTGAA GCTCTGGAAA TAGATTCCTT  
TAGGACAATT CATGTTGCAA ACCCCGCTTA GAGGTCTGCT GCTCCAGGGG CAGCTTTGGG CAGTGAGTAT  
TGGGGTTCAA AGCACATTTC TGTGTAGAA CAGTCTCAGC ACTGGGGAAG GCCTGTGGAT TAAATTTCCC  
TGA CTCTTAG TCAGTCTTTG GGATGTCCA GGGAGGATTT GGGGTCCCCT TTGACTCCTG GCCTAGTCAG  
GCTGCCAGT AATAGTTCTT TCTGCCCGC TTGATCCAGG TCGAGTACCT GTGCGATTAC AAGAAGATCC  
GCGTGAGTCT GGGGTGACCA TGCTCTGGGA GGGGACAGT CACAAGGAAG TTAGTGTCTT GCCCTTTGT  
CCCCAACTGC CCACATCTGT TTCAAAGGG AATTTTCTCC TTTGACCCTG AAAACACAGG ATGAATAGAC  
CCTTTTATCC CTATGTTACA GATAGGGAAA CTAAGTAGCT TTCTGGGCG GAGCCGGAAT GAATCCCAA  
ATAAATCTCT TCCCATCTCC CTAGGAATAC AAAGTAATTG CAGAGATTGA GATGCTGAAC CCTGGAGTGG  
AAATGTCAAT AGCTAATGGC TATTGAGCAC TTTCAGTGTG CCAGGCGTTT CCTCTCGGAA ACTCATTAA  
TCCCTAACA ACTGAAATGG GGATAGTTAT TGCCAGAAGG GGGAGTGGCA GGATGTTAG GAGAACAAC  
TGGAGTCAGC ATGCTTGGGT TCCAGTCTG GTTGTGTAC CCCAGGCTAC CTACCCAAAC CTTCAGTACT  
TCATTTTCTT TGTCGTA AAA GAGGGATAAC TAGGAGCATC TACCTCATGT GGGGTTGTGA GGATTAAGTT  
AGTTAATAAT
```

GE100003, scramble sequence in pCas-Guide vector



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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]

Product images:

