

Product datasheet for **KN206013**

SAMHD1 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:	SAMHD1
Locus ID:	25939
Components:	<p>KN206013G1, SAMHD1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTCGGGCTGTCATCGCAACG</p> <p>KN206013G2, SAMHD1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CATCCCGACTACAAGACATG</p> <p>KN206013D, 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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GATCGTTGGG AACCGGAGCT GAATGAAGCC ATACCAAACG ACGAGCGTGA CACCACGATG CCTGTAGCAA
TGGCAACAAC GTTGCACAAA CTATTAACCTG GCGAACTACT TACTCTAGCT TCCCAGCAAC AATTAATAGA
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TCTCGCCACG TTCGCCGCT TTTCCCGTCA AGCTCTAAAT CGGGGGCTCC CTTTAGGGTT CCGATTAGT
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ACTGCGGCA ACTTACTTCT GACAACGATC GGAGGACCGA AGGAGCTAAC CGCTTTTTTG CACAACATGG
GGGATCATGT AACTCGCCTT

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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_015474](#), [NM_001363729](#), [NM_001363733](#)

UniProt ID:

[Q9Y3Z3](#)

Synonyms:

CHBL2; DCIP; HDDC1; MOP-5; SBB188

Summary:

This gene may play a role in regulation of the innate immune response. The encoded protein is upregulated in response to viral infection and may be involved in mediation of tumor necrosis factor-alpha proinflammatory responses. Mutations in this gene have been associated with Aicardi-Goutieres syndrome. [provided by RefSeq, Mar 2010]

Product images:

