

Product datasheet for **KN224760**

SETD2 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: SETD2
Locus ID: 29072
Components: **KN224760G1**, SETD2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GATGGGGGATTTCTACGACC
KN224760G2, SETD2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGCGGAGCTGATACTTACTC
KN224760D, 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_012271](#), [NM_014159](#), [NM_001349370](#), [NR_146158](#)

UniProt ID:

[Q9BYW2](#)

Synonyms:

FLJ16420; FLJ22472; FLJ45883; HIF1; KIAA1732

Summary:

Huntington's disease (HD), a neurodegenerative disorder characterized by loss of striatal neurons, is caused by an expansion of a polyglutamine tract in the HD protein huntingtin. This gene encodes a protein belonging to a class of huntingtin interacting proteins characterized by WW motifs. This protein is a histone methyltransferase that is specific for lysine-36 of histone H3, and methylation of this residue is associated with active chromatin. This protein also contains a novel transcriptional activation domain and has been found associated with hyperphosphorylated RNA polymerase II. [provided by RefSeq, Aug 2008]

Product images:

