

## Product datasheet for **KN221327**

### **Snf1lk2 (SIK2) 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:** Snf1lk2  
**Locus ID:** 23235  
**Components:** **KN221327G1**, Snf1lk2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTGGGGTTCTACGACATCGA  
**KN221327G2**, Snf1lk2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCACCGGATCACCAAGACGG  
**KN221327D**, 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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 CTCCGGTTCC CAACGATC

**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\\_015191](#)

**UniProt ID:**

[Q9H0K1](#)

**Synonyms:**

LOH11CR1I; QIK; SIK-2; SNF1LK2

**Summary:**

Phosphorylates 'Ser-794' of IRS1 in insulin-stimulated adipocytes, potentially modulating the efficiency of insulin signal transduction. Inhibits CREB activity by phosphorylating and repressing TORCs, the CREB-specific coactivators.[UniProtKB/Swiss-Prot Function]

**Product images:**

