

## Product datasheet for **KN308968**

### Kras Mouse 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:	Kras
Locus ID:	16653
Components:	<p><b>KN308968G1</b>, Kras gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTGAATTAGCTGTATCGTCA</p> <p><b>KN308968G2</b>, Kras gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAGTATAAACTTGTGGTGGT</p> <p><b>KN308968D</b>, 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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 ACTGCGGCCA ACTTACTTCT GACAACGATC GGAGGACCGA AGGAGCTAAC CGCTTTTTTG CACAACATGG  
 GGGATCATGT AACTCGCCTT

**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\\_021284](#)

**UniProt ID:**

[P32883](#)

**Synonyms:**

A1929937; c-K-ras; c-Ki-ras; K-Ras; K-ras; Ki-ras; Kras-2; Kras2; p21B; ras

**Summary:**

Ras proteins bind GDP/GTP and possess intrinsic GTPase activity (By similarity). Plays an important role in the regulation of cell proliferation (PubMed:6474169, PubMed:1352876). Plays a role in promoting oncogenic events by inducing transcriptional silencing of tumor suppressor genes (TSGs) in colorectal cancer (CRC) cells in a ZNF304-dependent manner (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:

