

## Product datasheet for **KN200589**

### Calumenin (CALU) 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:** Calumenin  
**Locus ID:** 813  
**Components:** **KN200589G1**, Calumenin gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGCACATAAGAACTGTCGC  
**KN200589G2**, Calumenin gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCTGAGGCTCATGATGTACA  
**KN200589D**, 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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 AAAAAACCGC CCTTAACATG GCCCGC

**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\\_001130674](#), [NM\\_001199671](#), [NM\\_001199672](#), [NM\\_001199673](#), [NM\\_001199674](#),  
[NM\\_001219](#), [NR\\_074086](#)

**UniProt ID:**

[O43852](#)

**Synonyms:**

FLJ90608

**Summary:**

The product of this gene is a calcium-binding protein localized in the endoplasmic reticulum (ER) and it is involved in such ER functions as protein folding and sorting. This protein belongs to a family of multiple EF-hand proteins (CERC) that include reticulocalbin, ERC-55, and Cab45 and the product of this gene. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Oct 2008]

**Product images:**
