

## Product datasheet for **KN202069**

### CXCR4 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:** CXCR4  
**Locus ID:** 7852  
**Components:** **KN202069G1**, CXCR4 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGCTTCTGCCCGCTCGGAGA  
**KN202069G2**, CXCR4 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ATGACAAAGCAGGTTGAAAC  
**KN202069D**, 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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 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\\_001008540](#), [NM\\_003467](#), [NM\\_001348056](#), [NM\\_001348059](#), [NM\\_001348060](#)

**UniProt ID:**

[P61073](#)

**Synonyms:**

CD184; D2S201E; FB22; HM89; HSY3RR; LAP-3; LAP3; LCR1; LESTR; NPY3R; NPYR; NPYRL; NPY3R; WHIM

**Summary:**

This gene encodes a CXC chemokine receptor specific for stromal cell-derived factor-1. The protein has 7 transmembrane regions and is located on the cell surface. It acts with the CD4 protein to support HIV entry into cells and is also highly expressed in breast cancer cells. Mutations in this gene have been associated with WHIM (warts, hypogammaglobulinemia, infections, and myelokathexis) syndrome. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Product images:

