

## **Product datasheet for KN209707BN**

#### OriGene Technologies, Inc.

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### Cytokeratin 19 (KRT19) Human Gene Knockout Kit (CRISPR)

#### **Product data:**

**Product Type:** Knockout Kits (CRISPR)

**Format:** 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

**Donor DNA:** mBFP-Neo

**Symbol:** Cytokeratin 19

**Locus ID:** 3880

**Components:** KN209707G1, Cytokeratin 19 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN209707G2**, Cytokeratin 19 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN209707BND**, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

**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:** <u>NM 002276</u>

UniProt ID: P08727

Synonyms: CK19; K1CS; K19

**Summary:** The protein encoded by this gene is a member of the keratin family. The keratins are

intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. Unlike its related family members, this smallest known acidic cytokeratin is not paired with a basic cytokeratin in epithelial cells. It is specifically expressed in the periderm, the transiently superficial layer that envelopes the developing epidermis. The type I cytokeratins are clustered in a region of

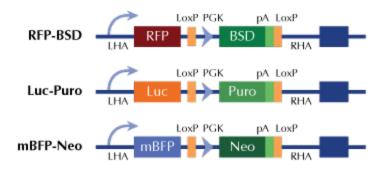
chromosome 17q12-q21. [provided by RefSeq, Jul 2008]





# **Product images:**

### Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter