

## **Product datasheet for KN210243RB**

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# NANOG Human Gene Knockout Kit (CRISPR)

## **Product data:**

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

**Format:** 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA:RFP-BSDSymbol:NANOGLocus ID:79923

**Components: KN210243G1**, NANOG gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN210243G2**, NANOG gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN210243RBD, donor DNA containing left and right homologous arms and RFP-BSD

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:** NM 001297698, NM 024865

UniProt ID: 09H9S0

Summary: The protein encoded by this gene is a DNA binding homeobox transcription factor involved in

embryonic stem (ES) cell proliferation, renewal, and pluripotency. The encoded protein can block ES cell differentiation and can also autorepress its own expression in differentiating cells. Two transcript variants encoding different isoforms have been found for this gene.

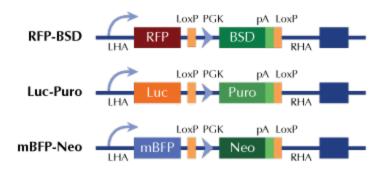
[provided by RefSeq, Sep 2015]





# **Product images:**

## Donor Vector Edited Chromosome



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