

## **Product datasheet for KN203597RB**

### Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com

**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

EU: info-de@origene.com CN: techsupport@origene.cn

## **RUNX3 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-BSD Symbol: RUNX3 Locus ID: 864

**Components: KN203597G1**, RUNX3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN203597G2**, RUNX3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN203597RBD, 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: <u>NM 001031680, NM 001320672, NM 004350</u>

UniProt ID: Q13761

**Synonyms:** AML2; CBFA3; PEBP2aC

**Summary:** This gene encodes a member of the runt domain-containing family of transcription factors. A

heterodimer of this protein and a beta subunit forms a complex that binds to the core DNA sequence 5'-PYGPYGGT-3' found in a number of enhancers and promoters, and can either activate or suppress transcription. It also interacts with other transcription factors. It functions as a tumor suppressor, and the gene is frequently deleted or transcriptionally silenced in cancer. Alternative splicing results in multiple transcript variants. [provided by

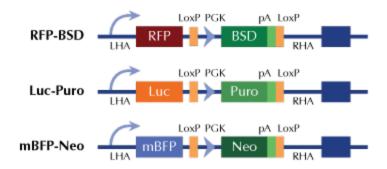
RefSeq, Mar 2016]





# **Product images:**

#### Donor Vector Edited Chromosome



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