

# Product datasheet for KN216439BN

## KAT3A / CBP (CREBBP) Human Gene Knockout Kit (CRISPR)

# **Product data:**

#### **Product Type:** Knockout Kits (CRISPR) 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control Format: Donor DNA: mBFP-Neo KAT3A / CBP Symbol: 1387 Locus ID: KN216439G1, KAT3A / CBP gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **Components:** KN216439G2, KAT3A / CBP gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN216439BND, 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:** NM 001079846, NM 004380 **UniProt ID:** Q92793 Synonyms: CBP; KAT3A; RSTS



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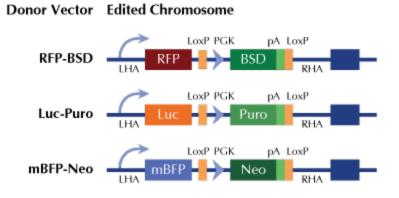
### OriGene Technologies, Inc.

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### STILL CRISERE KAT3A / CBP (CREBBP) Human Gene Knockout Kit (CRISPR) – KN216439BN

Summary: This gene is ubiquitously expressed and is involved in the transcriptional coactivation of many different transcription factors. First isolated as a nuclear protein that binds to cAMPresponse element binding protein (CREB), this gene is now known to play critical roles in embryonic development, growth control, and homeostasis by coupling chromatin remodeling to transcription factor recognition. The protein encoded by this gene has intrinsic histone acetyltransferase activity and also acts as a scaffold to stabilize additional protein interactions with the transcription complex. This protein acetylates both histone and nonhistone proteins. This protein shares regions of very high sequence similarity with protein p300 in its bromodomain, cysteine-histidine-rich regions, and histone acetyltransferase domain. Mutations in this gene cause Rubinstein-Taybi syndrome (RTS). Chromosomal translocations involving this gene have been associated with acute myeloid leukemia. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Feb 2009]

### **Product images:**



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

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