

## **Product datasheet for KN203303BN**

## **RHOA 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: RHOA Locus ID: 387

**Components:** KN203303G1, RHOA gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN203303G2**, RHOA gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN203303BND, 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 001313941, NM 001313943, NM 001313944, NM 001313945, NM 001313946,

NM 001313947, NM 001664

UniProt ID: P61586

Synonyms: ARH12; ARHA; RHO12; RHOH12

Summary: This gene encodes a member of the Rho family of small GTPases, which cycle between

inactive GDP-bound and active GTP-bound states and function as molecular switches in signal transduction cascades. Rho proteins promote reorganization of the actin cytoskeleton and regulate cell shape, attachment, and motility. Overexpression of this gene is associated with tumor cell proliferation and metastasis. Multiple alternatively spliced variants have been

identified. [provided by RefSeq, Sep 2015]



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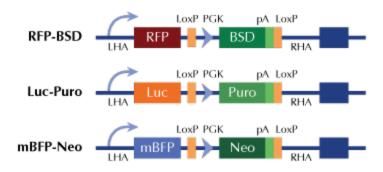
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## **Product images:**

## Donor Vector Edited Chromosome



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