

## Product datasheet for KN200332LP

#### OriGene Technologies, Inc.

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## **RHOC Human Gene Knockout Kit (CRISPR)**

#### **Product data:**

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

**Format:** 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

**Donor DNA:** Luciferase-Puro

Symbol: RHOC Locus ID: 389

**Components:** KN200332G1, RHOC gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN200332G2, RHOC gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN200332LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

functional cassette.

**GE100003**, scramble sequence in pCas-Guide vector

RefSeq: <u>NM 001042678, NM 001042679, NM 175744</u>

UniProt ID: P08134

**Synonyms:** ARH9; ARHC; H9; RHOH9

**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. The protein encoded by this gene is prenylated at its C-terminus, and localizes to the cytoplasm and plasma membrane. It is thought to be important in cell locomotion. Overexpression of this gene is associated with tumor cell proliferation and metastasis. Multiple alternatively spliced variants, encoding the same

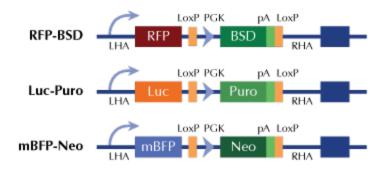
protein, have been identified. [provided by RefSeq, Jul 2008]





# **Product images:**

### Donor Vector Edited Chromosome



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