

## **Product datasheet for KN204048BN**

# OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200 Rockville MD 20850 US

Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

## **Ku70 (XRCC6) 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: Ku70 Locus ID: 2547

**Components: KN204048G1**, Ku70 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN204048G2, Ku70 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN204048BND, 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: <u>NM 001288976, NM 001288977, NM 001288978, NM 001469</u>

UniProt ID: P12956

Synonyms: CTC75; CTCBF; G22P1; KU70; ML8; TLAA

**Summary:** The p70/p80 autoantigen is a nuclear complex consisting of two subunits with molecular

masses of approximately 70 and 80 kDa. The complex functions as a single-stranded DNA-

dependent ATP-dependent helicase. The complex may be involved in the repair of nonhomologous DNA ends such as that required for double-strand break repair,

transposition, and V(D)J recombination. High levels of autoantibodies to p70 and p80 have been found in some patients with systemic lupus erythematosus. [provided by RefSeq, Jul

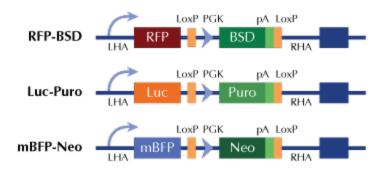
2008]





# **Product images:**

### Donor Vector Edited Chromosome



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