

## **Product datasheet for KN202374BN**

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### **UBP43 (USP18) Human Gene Knockout Kit (CRISPR)**

11274

#### **Product data:**

Locus ID:

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

**Format:** 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

**Donor DNA:** mBFP-Neo

Symbol: UBP43

**Components:** KN202374G1, UBP43 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN202374G2, UBP43 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN202374BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: <u>NM 017414</u>

UniProt ID: Q9UMW8

Synonyms: ISG43; UBP43

Summary: The protein encoded by this gene belongs to the ubiquitin-specific proteases (UBP) family of

enzymes that cleave ubiquitin from ubiquitinated protein substrates. It is highly expressed in liver and thymus, and is localized to the nucleus. This protein efficiently cleaves only ISG15 (a ubiquitin-like protein) fusions, and deletion of this gene in mice results in a massive increase of ISG15 conjugates in tissues, indicating that this protein is a major ISG15-specific protease. Mice lacking this gene are also hypersensitive to interferon, suggesting a function of this protein in downregulating interferon responses, independent of its isopeptidase activity

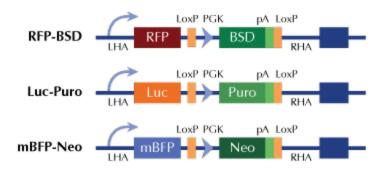
towards ISG15. [provided by RefSeq, Sep 2011]





# **Product images:**

#### Donor Vector Edited Chromosome



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