

### Product datasheet for KN207627RB

## Product datasneet for kinzu/62/kg

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

**Product data:** 

Locus ID:

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

331

**Format:** 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

**Donor DNA:** RFP-BSD

Symbol: XIAP

**Components:** KN207627G1, XIAP gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN207627G2, XIAP gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN207627RBD, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: <u>NM 001167, NM 001204401, NR 037916</u>

UniProt ID: P98170

Synonyms: API3; BIRC4; hIAP-3; hIAP3; IAP-3; ILP1; MIHA; XLP2

**Summary:** This gene encodes a protein that belongs to a family of apoptotic suppressor proteins.

Members of this family share a conserved motif termed, baculovirus IAP repeat, which is necessary for their anti-apoptotic function. This protein functions through binding to tumor necrosis factor receptor-associated factors TRAF1 and TRAF2 and inhibits apoptosis induced by menadione, a potent inducer of free radicals, and interleukin 1-beta converting enzyme. This protein also inhibits at least two members of the caspase family of cell-death proteases, caspase-3 and caspase-7. Mutations in this gene are the cause of X-linked lymphoproliferative syndrome. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene

are found on chromosomes 2 and 11.[provided by RefSeq, Feb 2011]



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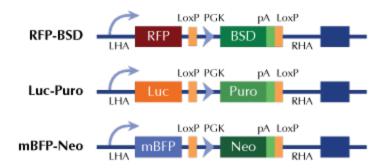
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# **Product images:**

#### Donor Vector Edited Chromosome



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