

## Product datasheet for **KN207627**

### XIAP Human Gene Knockout Kit (CRISPR)

#### Product data:

|               |  |
|---------------|--|
| Product Type: | Knockout Kits (CRISPR)   |
| Format:       | 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control   |
| Donor DNA:    | GFP-puro   |
| Symbol:       | XIAP   |
| Locus ID:     | 331  |
| Components:   | <p><b>KN207627G1</b>, XIAP gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCATCAACACTGGCACGAGC</p> <p><b>KN207627G2</b>, XIAP gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TCTTCCTTATTGATGTCTGC</p> <p><b>KN207627D</b>, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p> |

#### Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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 TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

**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\\_001167](#), [NM\\_001204401](#), [NR\\_037916](#)

**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]

Product images:

