

## Product datasheet for **KN211582**

### BTK 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:	BTK
Locus ID:	695
Components:	<p><b>KN211582G1</b>, BTK gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAGAGGTACAGTAATCTAAT</p> <p><b>KN211582G2</b>, BTK gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CATTGTGTAATGGACCAAC</p> <p><b>KN211582D</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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AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
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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\\_000061](#), [NM\\_001287344](#), [NM\\_001287345](#)

**UniProt ID:**

[Q06187](#)

**Synonyms:**

AGMX1; AT; ATK; BPK; IMD1; PSCTK1; XLA

**Summary:**

The protein encoded by this gene plays a crucial role in B-cell development. Mutations in this gene cause X-linked agammaglobulinemia type 1, which is an immunodeficiency characterized by the failure to produce mature B lymphocytes, and associated with a failure of Ig heavy chain rearrangement. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2013]

Product images:

