

Product datasheet for KN211582LP

OriGene Technologies, Inc.

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BTK Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro

Symbol: BTK Locus ID: 695

Components: KN211582G1, BTK gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN211582G2, BTK gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN211582LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

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 000061, NM 001287344, NM 001287345</u>

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

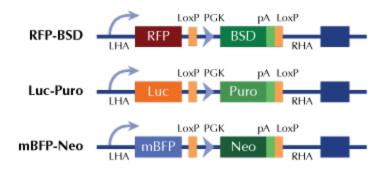
encoding different isoforms. [provided by RefSeq, Dec 2013]





Product images:

Donor Vector Edited Chromosome



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