

# Product datasheet for KN210065LP

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## **STAT6 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: STAT6 Locus ID: 6778

**Components:** KN210065G1, STAT6 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN210065G2, STAT6 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN210065LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

functional cassette.

**GE100003**, scramble sequence in pCas-Guide vector

RefSeq: NM 001178078, NM 001178079, NM 001178080, NM 001178081, NM 003153, NR 033659

UniProt ID: P42226

Synonyms: D12S1644; IL-4-STAT; STAT6B; STAT6C

**Summary:** The protein encoded by this gene is a member of the STAT family of transcription factors. In

response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein plays a central role in

exerting IL4 mediated biological responses. It is found to induce the expression of

BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. Knockout studies in mice suggested the roles of this gene in differentiation of T helper 2 (Th2) cells, expression of cell surface markers, and class switch of immunoglobulins. Alternative splicing results in

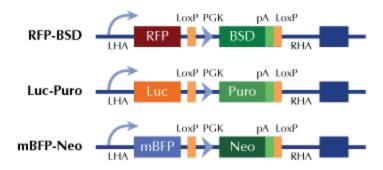
multiple transcript variants.[provided by RefSeq, May 2010]





# **Product images:**

### Donor Vector Edited Chromosome



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