

## Product datasheet for KN206892LP

#### OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

### **STAT4 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: STAT4 Locus ID: 6775

**Components: KN206892G1**, STAT4 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN206892G2, STAT4 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN206892LPD, 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 001243835</u>, <u>NM 003151</u>

UniProt ID: Q14765
Synonyms: SLEB11

**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 is essential for mediating

responses to IL12 in lymphocytes, and regulating the differentiation of T helper cells. Mutations in this gene may be associated with systemic lupus erythematosus and

rheumatoid arthritis. Alternate splicing results in multiple transcript variants that encode the

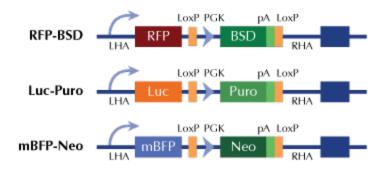
same protein. [provided by RefSeq, Aug 2011]





# **Product images:**

### Donor Vector Edited Chromosome



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