

Product datasheet for KN206892LP

OriGene Technologies, Inc.

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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

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

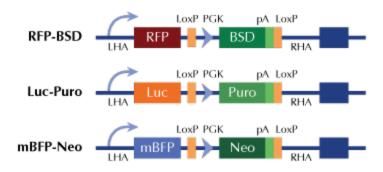
rheumatoid arthritis. Alternate splicing results in multiple transcript variants that encode the

same protein. [provided by RefSeq, Aug 2011]



Product images:

Donor Vector Edited Chromosome



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