

### Product datasheet for KN204351LP

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

OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

## **TYK2 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

TYK2 Symbol: 7297 Locus ID:

**KN204351G1**, TYK2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

**KN204351G2**, TYK2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN204351LPD, 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.

NM 003331 RefSeq:

**UniProt ID:** P29597

Synonyms: IMD35; JTK1

Summary: This gene encodes a member of the tyrosine kinase and, more specifically, the Janus kinases

> (JAKs) protein families. This protein associates with the cytoplasmic domain of type I and type II cytokine receptors and promulgate cytokine signals by phosphorylating receptor subunits. It is also a component of both the type I and type III interferon signaling pathways. As such, it may play a role in anti-viral immunity. A mutation in this gene has been associated with

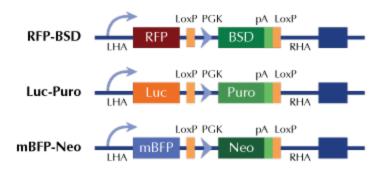
Immunodeficiency 35. [provided by RefSeq, Sep 2020]





# **Product images:**

### Donor Vector Edited Chromosome



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