

Product datasheet for **KN201075BN**

STAT1 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control
Donor DNA:	mBFP-Neo
Symbol:	STAT1
Locus ID:	6772
Components:	KN201075G1 , STAT1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AAAGCTGGTGAACCTGCTCC KN201075G2 , STAT1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCAGCTTGACTCAAATTC KN201075BND , donor DNA containing left and right homologous arms and mBFP-Neo 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: [NM_007315](#), [NM_139266](#)

UniProt ID: [P42224](#)

Synonyms: CANDF7; IMD31A; IMD31B; IMD31C; ISGF-3; STAT91

Summary: The protein encoded by this gene is a member of the STAT protein family. 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. The protein encoded by this gene can be activated by various ligands including interferon-alpha, interferon-gamma, EGF, PDGF and IL6. This protein mediates the expression of a variety of genes, which is thought to be important for cell viability in response to different cell stimuli and pathogens. The protein plays an important role in immune responses to viral, fungal and mycobacterial pathogens. Mutations in this gene are associated with Immunodeficiency 31B, 31A, and 31C. [provided by RefSeq, Jun 2020]



[View online »](#)

Product images:

