

## **Product datasheet for KN210945LP**

# OriGene Technologies, Inc.

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### **GATA4** 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: GATA4 Locus ID: 2626

**Components: KN210945G1**, GATA4 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN210945G2**, GATA4 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN210945LPD, 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 001308093, NM 001308094, NM 002052</u>

UniProt ID: P43694

**Synonyms:** ASD2; TACHD; TOF; VSD1

Summary: This gene encodes a member of the GATA family of zinc-finger transcription factors. Members

of this family recognize the GATA motif which is present in the promoters of many genes. This

protein is thought to regulate genes involved in embryogenesis and in myocardial

differentiation and function, and is necessary for normal testicular development. Mutations in this gene have been associated with cardiac septal defects. Additionally, alterations in gene expression have been associated with several cancer types. Alternative splicing results in

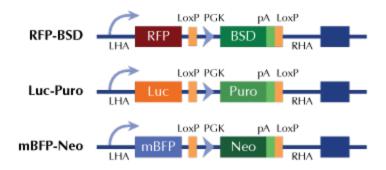
multiple transcript variants. [provided by RefSeq, Apr 2015]





## **Product images:**

#### Donor Vector Edited Chromosome



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