

### Product datasheet for KN210150LP

# **CTLA4 Human Gene Knockout Kit (CRISPR)**

**Product data:** 

**Product Type: Knockout Kits (CRISPR)** 

2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control Format:

**Donor DNA:** Luciferase-Puro

CTLA4 Symbol: Locus ID: 1493

**KN210150G1**, CTLA4 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

**KN210150G2**, CTLA4 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN210150LPD, 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: NM 001037631, NM 005214

**UniProt ID:** P16410

Synonyms: ALPS5; CD; CD152; CELIAC3; CTLA-4; GRD4; GSE; IDDM12

Summary: This gene is a member of the immunoglobulin superfamily and encodes a protein which

> transmits an inhibitory signal to T cells. The protein contains a V domain, a transmembrane domain, and a cytoplasmic tail. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. The membrane-bound isoform functions as a homodimer

interconnected by a disulfide bond, while the soluble isoform functions as a monomer.

Mutations in this gene have been associated with insulin-dependent diabetes mellitus, Graves

disease, Hashimoto thyroiditis, celiac disease, systemic lupus erythematosus, thyroidassociated orbitopathy, and other autoimmune diseases. [provided by RefSeq, Jul 2008]



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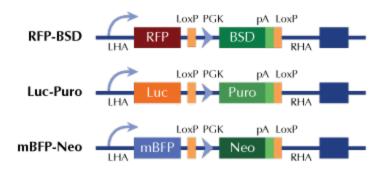
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## **Product images:**

### Donor Vector Edited Chromosome



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