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Product datasheet for KN209440BN

TIM 3 (HAVCR2) 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: TIM 3

Locus ID: 84868

Components: **KN209440G1**, TIM 3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)
KN209440G2, TIM 3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)
KN209440BND, donor DNA containing left and right homologous arms and mBFP-Neo functional cassette.
Homologous arm and mBFP-Neo sequences:

pUC vector backbone in gray; Left arm sequence in blue; mBFP-Neo in green; Right arm in violet

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GTATGGCTTC ATTCAGCTCC GGTTCCCAAC GATC

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.

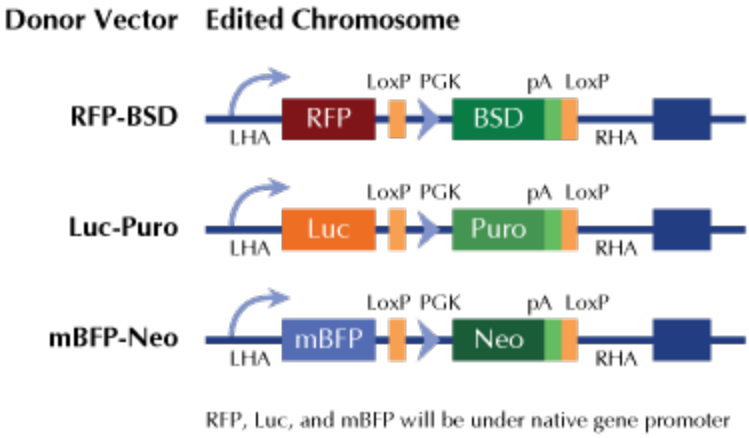
RefSeq: NM_032782

UniProt ID: Q8TDQ0

Synonyms: CD366; HAVcr-2; KIM-3; Tim-3; TIM3; TIMD-3; TIMD3

Summary: The protein encoded by this gene belongs to the immunoglobulin superfamily, and TIM family of proteins. CD4-positive T helper lymphocytes can be divided into types 1 (Th1) and 2 (Th2) on the basis of their cytokine secretion patterns. Th1 cells are involved in cell-mediated immunity to intracellular pathogens and delayed-type hypersensitivity reactions, whereas, Th2 cells are involved in the control of extracellular helminthic infections and the promotion of atopic and allergic diseases. This protein is a Th1-specific cell surface protein that regulates macrophage activation, and inhibits Th1-mediated auto- and alloimmune responses, and promotes immunological tolerance. [provided by RefSeq, Sep 2011]

Product images:



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