

Product datasheet for KN206592RB

IDO1 Human Gene Knockout Kit (CRISPR)

Product data:

Locus ID:

Product Type: Knockout Kits (CRISPR)

3620

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: IDO1 Symbol:

KN206592G1, IDO1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN206592G2, IDO1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN206592RBD, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: NM 002164

UniProt ID: P14902

Synonyms: IDO; IDO-1; INDO

Summary: This gene encodes indoleamine 2,3-dioxygenase (IDO) - a heme enzyme that catalyzes the

> first and rate-limiting step in tryptophan catabolism to N-formyl-kynurenine. This enzyme acts on multiple tryptophan substrates including D-tryptophan, L-tryptophan, 5-hydroxytryptophan, tryptamine, and serotonin. This enzyme is thought to play a role in a variety of pathophysiological processes such as antimicrobial and antitumor defense, neuropathology,

immunoregulation, and antioxidant activity. Through its expression in dendritic cells, monocytes, and macrophages this enzyme modulates T-cell behavior by its peri-cellular catabolization of the essential amino acid tryptophan. [provided by RefSeq, Feb 2011]



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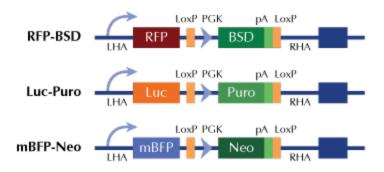
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Product images:

Donor Vector Edited Chromosome



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