

Product datasheet for **KN206592RB**

IDO1 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	IDO1
Locus ID:	3620
Components:	<p>KN206592G1, IDO1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</p> <p>KN206592G2, IDO1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</p> <p>KN206592RBD, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.</p> <p>GE100003, scramble sequence in pCas-Guide vector</p>
RefSeq:	NM_002164
UniProt ID:	P14902
Synonyms:	IDO; IDO-1; INDO
Summary:	<p>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-hydroxy-tryptophan, 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]</p>



[View online »](#)

Product images:

