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Product datasheet for KN208384RB

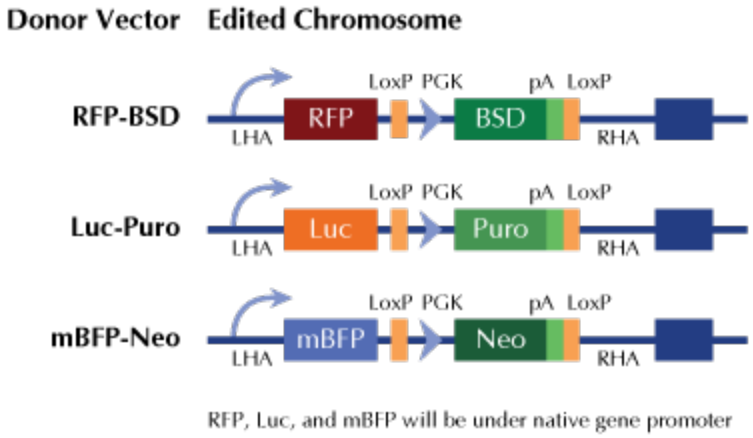
NFKB1 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	NFKB1
Locus ID:	4790
Components:	**KN208384G1**, NFKB1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **KN208384G2**, NFKB1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN208384RBD**, donor DNA containing left and right homologous arms and RFP-BSD functional cassette. **GE100003**, scramble sequence in pCas-Guide vector
RefSeq:	NM_001165412, NM_001319226, NM_003998
UniProt ID:	P19838
Synonyms:	CVID12; EBP-1; KBF1; NF-kappa-B; NF-kappaB; NF-kB1; NFkappaB; NFKB-p50; NFKB-p105; p50; p105
Summary:	This gene encodes a 105 kD protein which can undergo cotranslational processing by the 26S proteasome to produce a 50 kD protein. The 105 kD protein is a Rel protein-specific transcription inhibitor and the 50 kD protein is a DNA binding subunit of the NF-kappa-B (NFKB) protein complex. NFKB is a transcription regulator that is activated by various intra- and extra-cellular stimuli such as cytokines, oxidant-free radicals, ultraviolet irradiation, and bacterial or viral products. Activated NFKB translocates into the nucleus and stimulates the expression of genes involved in a wide variety of biological functions. Inappropriate activation of NFKB has been associated with a number of inflammatory diseases while persistent inhibition of NFKB leads to inappropriate immune cell development or delayed cell growth. NFKB is a critical regulator of the immediate-early response to viral infection. Alternative splicing results in multiple transcript variants encoding different isoforms, at least one of which is proteolytically processed. [provided by RefSeq, Aug 2020]

View online »

Product images:



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