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Product datasheet for KN211013RB

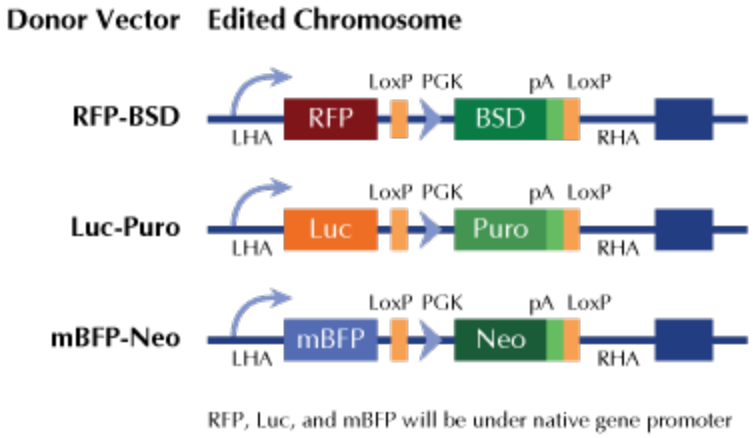
B Raf (BRAF) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	B Raf
Locus ID:	673
Components:	**KN211013G1**, B Raf gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **KN211013G2**, B Raf gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN211013RBD**, donor DNA containing left and right homologous arms and RFP-BSD functional cassette. **GE100003**, scramble sequence in pCas-Guide vector
RefSeq:	NM_004333, NM_001354609, NR_148928
UniProt ID:	P15056
Synonyms:	B-raf; B-RAF1; BRAF1; NS7; RAFB1
Summary:	This gene encodes a protein belonging to the RAF family of serine/threonine protein kinases. This protein plays a role in regulating the MAP kinase/ERK signaling pathway, which affects cell division, differentiation, and secretion. Mutations in this gene, most commonly the V600E mutation, are the most frequently identified cancer-causing mutations in melanoma, and have been identified in various other cancers as well, including non-Hodgkin lymphoma, colorectal cancer, thyroid carcinoma, non-small cell lung carcinoma, hairy cell leukemia and adenocarcinoma of lung. Mutations in this gene are also associated with cardiofaciocutaneous, Noonan, and Costello syndromes, which exhibit overlapping phenotypes. A pseudogene of this gene has been identified on the X chromosome. [provided by RefSeq, Aug 2017]

View online »

Product images:



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