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Product datasheet for KN211132BN

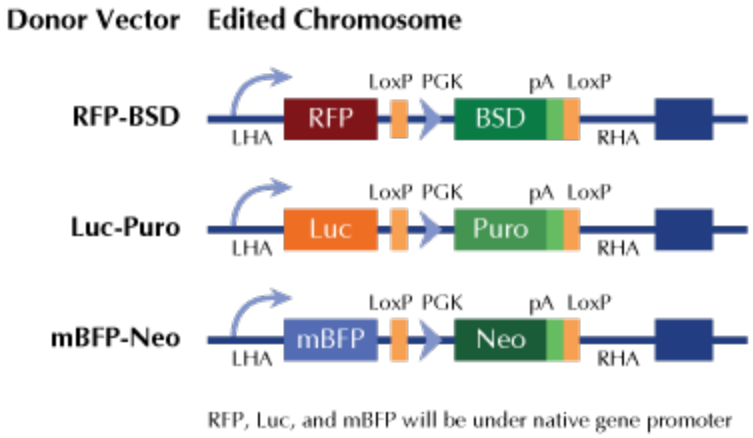
GLUD1 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control
Donor DNA:	mBFP-Neo
Symbol:	GLUD1
Locus ID:	2746
Components:	**KN211132G1**, GLUD1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **KN211132G2**, GLUD1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN211132BND**, donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. **GE100003**, scramble sequence in pCas-Guide vector
RefSeq:	NM_001318900, NM_001318901, NM_001318902, NM_001318904, NM_001318905, NM_001318906, NM_005271
UniProt ID:	P00367
Synonyms:	GDH; GDH1; GLUD
Summary:	This gene encodes glutamate dehydrogenase, which is a mitochondrial matrix enzyme that catalyzes the oxidative deamination of glutamate to alpha-ketoglutarate and ammonia. This enzyme has an important role in regulating amino acid-induced insulin secretion. It is allosterically activated by ADP and inhibited by GTP and ATP. Activating mutations in this gene are a common cause of congenital hyperinsulinism. Alternative splicing of this gene results in multiple transcript variants. The related glutamate dehydrogenase 2 gene on the human X-chromosome originated from this gene via retrotransposition and encodes a soluble form of glutamate dehydrogenase. Related pseudogenes have been identified on chromosomes 10, 18 and X. [provided by RefSeq, Jan 2016]

View online »

Product images:



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