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Product datasheet for KN310966BN

Ngly1 Mouse 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:	Ngly1
Locus ID:	59007
Components:	**KN310966G1**, Ngly1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **KN310966G2**, Ngly1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN310966BND**, donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. **GE100003**, scramble sequence in pCas-Guide vector
Disclaimer:	These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.
RefSeq:	NM_021504, NM_001362432, NM_001362433
UniProt ID:	Q9JI78
Synonyms:	1110002C09Rik; Png1; PNGase
Summary:	Specifically deglycosylates the denatured form of N-linked glycoproteins in the cytoplasm and assists their proteasome-mediated degradation. Cleaves the beta-aspartyl-glucosamine (GlcNAc) of the glycan and the amide side chain of Asn, converting Asn to Asp. Prefers proteins containing high-mannose over those bearing complex type oligosaccharides. Can recognize misfolded proteins in the endoplasmic reticulum that are exported to the cytosol to be destroyed and deglycosylate them, while it has no activity toward native proteins. Deglycosylation is a prerequisite for subsequent proteasome-mediated degradation of some, but not all, misfolded glycoproteins.[UniProtKB/Swiss-Prot Function]

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This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
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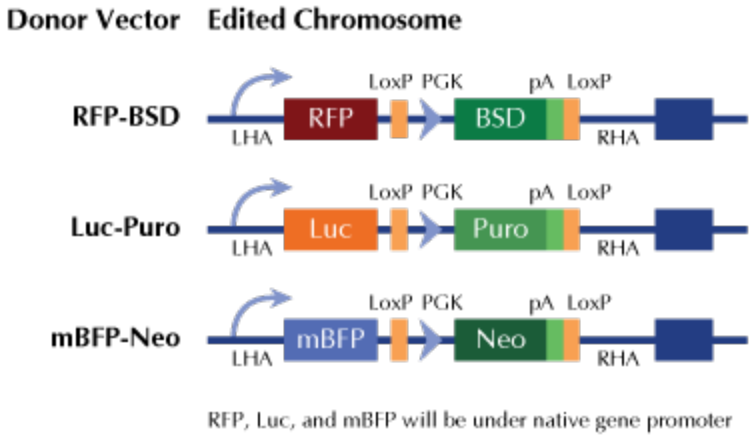
Product images:



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

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