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Product datasheet for KN200620RB

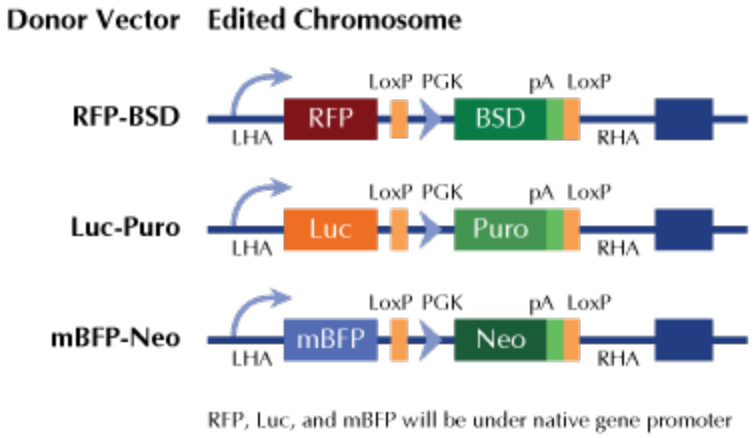
NQO1 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	NQO1
Locus ID:	1728
Components:	**KN200620G1**, NQO1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **KN200620G2**, NQO1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN200620RBD**, donor DNA containing left and right homologous arms and RFP-BSD 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_000903, NM_001025433, NM_001025434, NM_001286137
UniProt ID:	P15559
Synonyms:	DHQU; DIA4; DTD; NMOR1; NMORI; QR1
Summary:	This gene is a member of the NAD(P)H dehydrogenase (quinone) family and encodes a cytoplasmic 2-electron reductase. This FAD-binding protein forms homodimers and reduces quinones to hydroquinones. This protein's enzymatic activity prevents the one electron reduction of quinones that results in the production of radical species. Mutations in this gene have been associated with tardive dyskinesia (TD), an increased risk of hematotoxicity after exposure to benzene, and susceptibility to various forms of cancer. Altered expression of this protein has been seen in many tumors and is also associated with Alzheimer's disease (AD). Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

View online »

Product images:



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