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Product datasheet for KN201208LP

APE1 (APEX1) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control
Donor DNA:	Luciferase-Puro
Symbol:	APE1
Locus ID:	328
Components:	**KN201208G1**, APE1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **KN201208G2**, APE1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN201208LPD**, donor DNA containing left and right homologous arms and Luciferase-Puro 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_001244249, NM_001641, NM_080648, NM_080649
UniProt ID:	P27695
Synonyms:	APE; APE1; APEN; APEX; APX; HAP1; REF1
Summary:	The APEX gene encodes the major AP endonuclease in human cells. It encodes the APEX endonuclease, a DNA repair enzyme with apurinic/apyrimidinic (AP) activity. Such AP activity sites occur frequently in DNA molecules by spontaneous hydrolysis, by DNA damaging agents or by DNA glycosylases that remove specific abnormal bases. The AP sites are the most frequent pre-mutagenic lesions that can prevent normal DNA replication. Splice variants have been found for this gene; all encode the same protein. Disruptions in the biological functions related to APEX are associated with many various malignancies and neurodegenerative diseases.[provided by RefSeq, Dec 2019]

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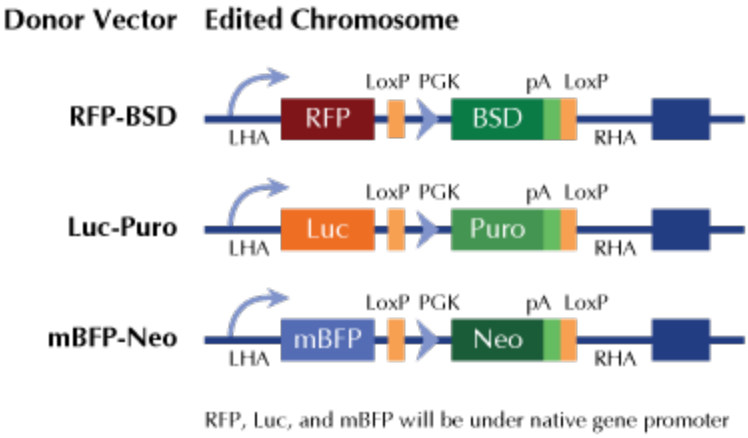
Product images:



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