

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:	<p>KN201208G1, APE1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</p> <p>KN201208G2, APE1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</p> <p>KN201208LPD, donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette.</p> <p>GE100003, scramble sequence in pCas-Guide vector</p>
RefSeq:	NM_001244249 , NM_001641 , NM_080648 , NM_080649
UniProt ID:	P27695
Synonyms:	APE; APE1; APEN; APEX; APX; HAP1; REF1
Summary:	<p>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]</p>



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Product images:

