

### Product datasheet for KN204694BN

## PAH 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

PAH Symbol: 5053 Locus ID:

**KN204694G1**, PAH gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

**KN204694G2**, PAH gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN204694BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: NM 000277, NM 001354304

**UniProt ID:** P00439

Synonyms: PH; PKU; PKU1

**Summary:** This gene encodes a member of the biopterin-dependent aromatic amino acid hydroxylase

> protein family. The encoded phenylalanine hydroxylase enzyme hydroxylates phenylalanine to tyrosine and is the rate-limiting step in phenylalanine catabolism. Deficiency of this enzyme activity results in the autosomal recessive disorder phenylketonuria. [provided by

RefSeq, Aug 2017]



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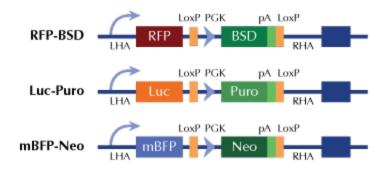
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# **Product images:**

#### Donor Vector Edited Chromosome



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