

Product datasheet for KN202667RB

OriGene Technologies, Inc.

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Kallikrein 2 (KLK2) 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: Kallikrein 2

Locus ID: 3817

Components: KN202667G1, Kallikrein 2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN202667G2, Kallikrein 2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN202667RBD**, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: NM 001002231, NM 001002232, NM 001256080, NM 005551, NR 045762, NR 045763

UniProt ID: <u>P20151</u>

Synonyms: hGK-1; hK2; KLK2A2

Summary: This gene encodes a member of the grandular kallikrein protein family. Kallikreins are a

subgroup of serine proteases that are clustered on chromosome 19. Members of this family are involved in a diverse array of biological functions. The protein encoded by this gene is a highly active trypsin-like serine protease that selectively cleaves at arginine residues. This protein is primarily expressed in prostatic tissue and is responsible for cleaving pro-prostate-specific antigen into its enzymatically active form. This gene is highly expressed in prostate tumor cells and may be a prognostic maker for prostate cancer risk. Alternate splicing results

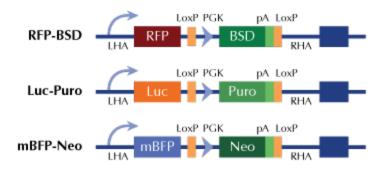
in both coding and non-coding transcript variants. [provided by RefSeq, Jan 2012]





Product images:

Donor Vector Edited Chromosome



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