

Product datasheet for KN200464BN

OriGene Technologies, Inc.

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Hexokinase 1 (HK1) 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 Symbol: Hexokinase 1

Locus ID: 3098

Components: KN200464G1, Hexokinase 1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN200464G2, Hexokinase 1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN200464BND**, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: NM 000188, NM 001322364, NM 001322365, NM 001322366, NM 001322367, NM 033496,

NM 033497, NM 033498, NM 033500, NM 001358263

UniProt ID: P19367

Synonyms: hexokinase; HK; HK1-ta; HK1-tb; HK1-tc; HKD; HKI; HMSNR; HXK1

Summary: Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most

glucose metabolism pathways. This gene encodes a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria. Mutations in this gene have been

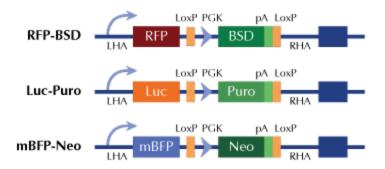
associated with hemolytic anemia due to hexokinase deficiency. Alternative splicing of this gene results in several transcript variants which encode different isoforms, some of which

are tissue-specific. [provided by RefSeq, Apr 2016]



Product images:

Donor Vector Edited Chromosome



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