

Product datasheet for KN200464LP

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 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro 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)

KN200464LPD, 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 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

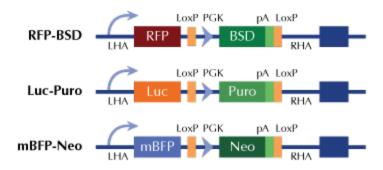
are tissue-specific. [provided by RefSeq, Apr 2016]





Product images:

Donor Vector Edited Chromosome



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