

Product datasheet for KN209482RB

OriGene Technologies, Inc.

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Hexokinase II (HK2) 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: Hexokinase II

Locus ID: 3099

Components: KN209482G1, Hexokinase II gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN209482G2, Hexokinase II gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN209482RBD**, donor DNA containing left and right homologous arms and RFP-BSD

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: <u>NM 000189</u>

UniProt ID: P52789

Synonyms: HKII; HXK2

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

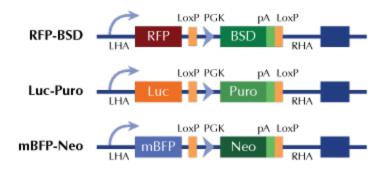
glucose metabolism pathways. This gene encodes hexokinase 2, the predominant form found in skeletal muscle. It localizes to the outer membrane of mitochondria. Expression of this gene is insulin-responsive, and studies in rat suggest that it is involved in the increased rate

of glycolysis seen in rapidly growing cancer cells. [provided by RefSeq, Apr 2009]



Product images:

Donor Vector Edited Chromosome



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