

Product datasheet for KN200468BN

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

GSK3 beta (**GSK3B**) 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: GSK3 beta

Locus ID: 2932

Components: KN200468G1, GSK3 beta gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN200468G2, GSK3 beta gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN200468BND, donor DNA containing left and right homologous arms and mBFP-Neo

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 001146156, NM 002093, NM 001354596</u>

UniProt ID: P49841

Synonyms: glycogen synthase kinase-3 beta; glycogen synthase kinase 3 beta; GSK3beta isoform

Summary: The protein encoded by this gene is a serine-threonine kinase belonging to the glycogen

synthase kinase subfamily. It is a negative regulator of glucose homeostasis and is involved in

energy metabolism, inflammation, ER-stress, mitochondrial dysfunction, and apoptotic pathways. Defects in this gene have been associated with Parkinson disease and Alzheimer

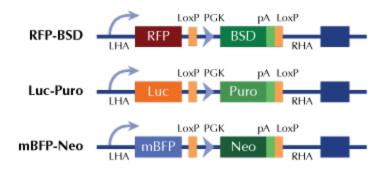
disease. [provided by RefSeq, Aug 2017]





Product images:

Donor Vector Edited Chromosome



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