

Product datasheet for KN214956RB

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

Protein Kinase D2 (PRKD2) 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: Protein Kinase D2

Locus ID: 25865

Components: KN214956G1, Protein Kinase D2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN214956G2, Protein Kinase D2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN214956RBD**, 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 001079880, NM 001079881, NM 001079882, NM 016457</u>

UniProt ID: Q9BZL6

Synonyms: HSPC187; nPKC-D2; PKD2

Summary: The protein encoded by this gene belongs to the protein kinase D (PKD) family of

serine/threonine protein kinases. This kinase can be activated by phorbol esters as well as by

gastrin via the cholecystokinin B receptor (CCKBR) in gastric cancer cells. It can bind to diacylglycerol (DAG) in the trans-Golgi network (TGN) and may regulate basolateral

membrane protein exit from TGN. Alternative splicing results in multiple transcript variants

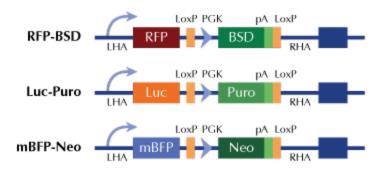
encoding different isoforms. [provided by RefSeq, Jul 2008]





Product images:

Donor Vector Edited Chromosome



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