

Product datasheet for **KN214956**

Protein Kinase D2 (PRKD2) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)
Format: 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA: GFP-puro
Symbol: Protein Kinase D2
Locus ID: 25865
Components: **KN214956G1**, Protein Kinase D2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ACCGCCCTCTTATCCCCG
KN214956G2, Protein Kinase D2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ACTGCAGCTCTAGGCCCG
KN214956D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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TGGGGGATCA TGTAACCTCG CTT

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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_001079880](#), [NM_001079881](#), [NM_001079882](#), [NM_016457](#)

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:

