

# Product datasheet for KN221711BN

# PC1/3 (PCSK1) Human Gene Knockout Kit (CRISPR)

## **Product data:**

#### **Product Type:** Knockout Kits (CRISPR) 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control Format: Donor DNA: mBFP-Neo PC1/3 Symbol: Locus ID: 5122 **KN221711G1**, PC1/3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **Components:** KN221711G2, PC1/3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN221711BND, 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:** NM 000439, NM 001177875, NM 001177876 **UniProt ID:** P29120 Synonyms: BMIQ12; NEC1; PC1; PC3; SPC3



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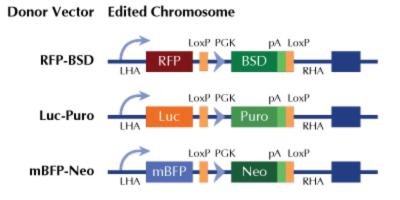
### OriGene Technologies, Inc.

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### CRIGENE PC1/3 (PCSK1) Human Gene Knockout Kit (CRISPR) – KN221711BN

Summary: This gene encodes a member of the subtilisin-like proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. The encoded protein undergoes an initial autocatalytic processing event in the ER to generate a heterodimer which exits the ER and sorts to subcellular compartments where a second autocatalytic even takes place and the catalytic activity is acquired. The protease is packaged into and activated in dense core secretory granules and expressed in the neuroendocrine system and brain. This gene encodes one of the seven basic amino acid-specific members which cleave their substrates at single or paired basic residues. It functions in the proteolytic activation of polypeptide hormones and neuropeptides precursors. Mutations in this gene have been associated with susceptibility to obesity and proprotein convertase 1/3 deficiency. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene [provided by RefSeq, Jan 2014]

### **Product images:**



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

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