

# **Product datasheet for KN204160RB**

#### OriGene Technologies, Inc.

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## Prostaglandin dehydrogenase 1 (HPGD) 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: Prostaglandin dehydrogenase 1

**Locus ID:** 3248

Components: KN204160G1, Prostaglandin dehydrogenase 1 gRNA vector 1 in pCas-Guide CRISPR vector

(GE100002)

KN204160G2, Prostaglandin dehydrogenase 1 gRNA vector 2 in pCas-Guide CRISPR vector

(GE100002)

KN204160RBD, 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: NM 000860, NM 001145816, NM 001256301, NM 001256305, NM 001256306,

NM 001256307, NR 027332, NM 001363574

UniProt ID: P15428

Synonyms: 15-PGDH; PGDH; PGDH1; PHOAR1; SDR36C1

**Summary:** This gene encodes a member of the short-chain nonmetalloenzyme alcohol dehydrogenase

protein family. The encoded enzyme is responsible for the metabolism of prostaglandins, which function in a variety of physiologic and cellular processes such as inflammation. Mutations in this gene result in primary autosomal recessive hypertrophic osteoarthropathy and cranioosteoarthropathy. Multiple transcript variants encoding different isoforms have

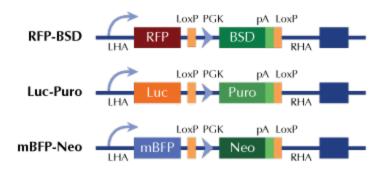
been found for this gene. [provided by RefSeq, Mar 2009]





## **Product images:**

### Donor Vector Edited Chromosome



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