

## **Product datasheet for KN202245BN**

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### **COX2 (PTGS2) 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: COX2 Locus ID: 5743

**Components:** KN202245G1, COX2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN202245G2, COX2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN202245BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

**RefSeq:** <u>NM 000963</u>

UniProt ID: <u>P35354</u>

Synonyms: COX-2; COX2; GRIPGHS; hCox-2; PGG/HS; PGHS-2; PHS-2

**Summary:** Prostaglandin-endoperoxide synthase (PTGS), also known as cyclooxygenase, is the key

enzyme in prostaglandin biosynthesis, and acts both as a dioxygenase and as a peroxidase. There are two isozymes of PTGS: a constitutive PTGS1 and an inducible PTGS2, which differ in

their regulation of expression and tissue distribution. This gene encodes the inducible

isozyme. It is regulated by specific stimulatory events, suggesting that it is responsible for the prostanoid biosynthesis involved in inflammation and mitogenesis. [provided by RefSeq, Feb

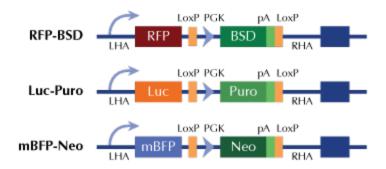
2009]





# **Product images:**

### Donor Vector Edited Chromosome



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