

## Product datasheet for **KN202245BN**

### 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:	<b>KN202245G1</b> , COX2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN202245G2</b> , COX2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN202245BND</b> , donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. <b>GE100003</b> , 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:	<a href="#">NM_000963</a>
UniProt ID:	<a href="#">P35354</a>
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]



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## Product images:

