

Product datasheet for KN206436BN

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OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

PTGS1 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

PTGS1 Symbol: Locus ID: 5742

KN206436G1, PTGS1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN206436G2, PTGS1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN206436BND, 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 000962, NM 001271164, NM 001271165, NM 001271166, NM 001271367,

NM 001271368, NM 080591

UniProt ID: P23219

COX1; COX3; PCOX1; PES-1; PGG/HS; PGHS-1; PGHS1; PHS1; PTGHS Synonyms:

Summary: This is one of two genes encoding similar enzymes that catalyze the conversion of

> arachinodate to prostaglandin. The encoded protein regulates angiogenesis in endothelial cells, and is inhibited by nonsteroidal anti-inflammatory drugs such as aspirin. Based on its ability to function as both a cyclooxygenase and as a peroxidase, the encoded protein has been identified as a moonlighting protein. The protein may promote cell proliferation during tumor progression. Alternative splicing results in multiple transcript variants. [provided by

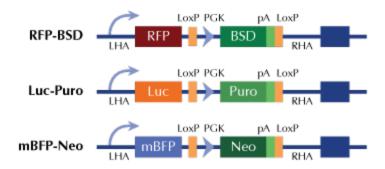
RefSeg, Jan 2014]





Product images:

Donor Vector Edited Chromosome



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