

Product datasheet for KN202405BN

OriGene Technologies, Inc.

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Prostaglandin E Synthase (PTGES) 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: Prostaglandin E Synthase

Locus ID: 9536

Components: KN202405G1, Prostaglandin E Synthase gRNA vector 1 in pCas-Guide CRISPR vector

(GE100002)

KN202405G2, Prostaglandin E Synthase gRNA vector 2 in pCas-Guide CRISPR vector

(GE100002)

KN202405BND, 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.

RefSeg: NM 004878, NM 198797

UniProt ID: 014684

Synonyms: MGST-IV; MGST1-L1; MGST1L1; MPGES; mPGES-1; PGES; PIG12; PP102; PP1294; TP53I12

Summary: The protein encoded by this gene is a glutathione-dependent prostaglandin E synthase. The

expression of this gene has been shown to be induced by proinflammatory cytokine interleukin 1 beta (IL1B). Its expression can also be induced by tumor suppressor protein TP53, and may be involved in TP53 induced apoptosis. Knockout studies in mice suggest that this gene may contribute to the pathogenesis of collagen-induced arthritis and mediate acute

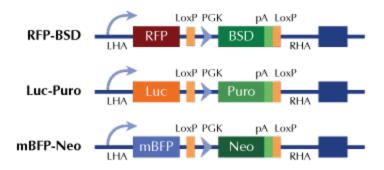
pain during inflammatory responses. [provided by RefSeq, Jul 2008]





Product images:

Donor Vector Edited Chromosome



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