

Product datasheet for **KN314182**

Ptgs1 Mouse Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	Ptgs1
Locus ID:	19224
Components:	KN314182G1 , Ptgs1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TCGGTCCTGCTCGCAGATCC KN314182G2 , Ptgs1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCTGCTGCCGCCGACACCCT KN314182D , donor DNA containing left and right homologous arms and GFP-puro functional cassette.

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
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TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

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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_008969](#)

UniProt ID:

[P22437](#)

Synonyms:

Cox-1; Cox-3; COX1; PGHS-1; Pghs1; PHS 1

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. [provided by RefSeq, Jan 2014]

Product images:

