

Product datasheet for **KN201229**

Prohibitin (PHB) Human 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:	Prohibitin
Locus ID:	5245
Components:	<p>KN201229G1, Prohibitin gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCATGCCTCACCATTATATA</p> <p>KN201229G2, Prohibitin gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTGAACTCTGCCTTATATAA</p> <p>KN201229D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

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

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_001281496](#), [NM_001281497](#), [NM_001281715](#), [NM_002634](#)

UniProt ID:

[P35232](#)

Synonyms:

HEL-215; HEL-S-54e; PHB1

Summary:

This gene is evolutionarily conserved, and its product is proposed to play a role in human cellular senescence and tumor suppression. Antiproliferative activity is reported to be localized to the 3' UTR, which is proposed to function as a trans-acting regulatory RNA. Several pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

