

Product datasheet for **KN207615**

GPNMB 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:	GPNMB
Locus ID:	10457
Components:	<p>KN207615G1, GPNMB gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AATTAAGGGTTACTCACGTT</p> <p>KN207615G2, GPNMB gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CAAGTGGCAATCTTGCAGCC</p> <p>KN207615D, 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 TGGCCGCAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
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 AACCAGCCAG CCGGAAGGGC CGAGCGCAGA AGTGGTCTG CAACTTTATC GGCCTCCATC CAGTCTATTA
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 AGGCATCGTG GTGTCACGCT CGTCGTTTGG TATGGCTTCA TTCAGCTCCG GTTCCCAACG ATC

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_001005340](#), [NM_002510](#)

UniProt ID:

[Q14956](#)

Synonyms:

HGFIN; NMB

Summary:

The protein encoded by this gene is a type I transmembrane glycoprotein which shows homology to the pMEL17 precursor, a melanocyte-specific protein. GPNMB shows expression in the lowly metastatic human melanoma cell lines and xenografts but does not show expression in the highly metastatic cell lines. GPNMB may be involved in growth delay and reduction of metastatic potential. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:

