

Product datasheet for KN207615RB

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

GPNMB Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: RFP-BSD
Symbol: GPNMB
Locus ID: 10457

Components: KN207615G1, GPNMB gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN207615G2, GPNMB gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN207615RBD, donor DNA containing left and right homologous arms and RFP-BSD

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: <u>NM 001005340</u>, <u>NM 002510</u>

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

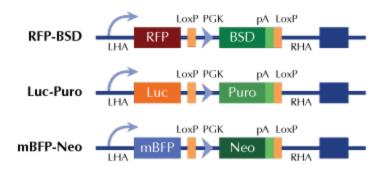
been found for this gene. [provided by RefSeq, Jul 2008]





Product images:

Donor Vector Edited Chromosome



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