

Product datasheet for KN310583RB

Myd88 Mouse 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: Myd88 17874 Locus ID:

KN310583G1, Myd88 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN310583G2, Myd88 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN310583RBD, 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.

NM 010851 RefSeq:

UniProt ID: P22366

Adapter protein involved in the Toll-like receptor and IL-1 receptor signaling pathway in the **Summary:**

innate immune response (PubMed:9697844). Acts via IRAK1, IRAK2, IRF7 and TRAF6, leading

to NF-kappa-B activation, cytokine secretion and the inflammatory response

(PubMed:9575168, PubMed:9697844). Increases IL-8 transcription. Involved in IL-18-mediated signaling pathway (PubMed:9697844). Isoform 2 is defective in its ability to induce IRAK

phosphorylation and NF-kappa-B activation and can function as a negative regulator of activation by IL-1 or lipopolysaccharide (LPS) (PubMed:11909531). Activates IRF1 resulting in its rapid migration into the nucleus to mediate an efficient induction of IFN-beta, NOS2/INOS, and IL12A genes (PubMed:17018642). MyD88-mediated signaling in intestinal epithelial cells

is crucial for maintenance of gut homeostasis and controls the expression of the

antimicrobial lectin REG3G in the small intestine (PubMed:17635956, PubMed:21998396).

Mediates leukocyte recruitment at the inflammatory site (PubMed:18941239).

[UniProtKB/Swiss-Prot Function]



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

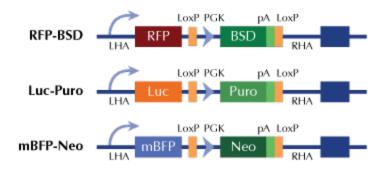
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Product images:

Donor Vector Edited Chromosome



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