

#### **Product datasheet for TL511230**

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### Myd88 Mouse shRNA Plasmid (Locus ID 17874)

#### **Product data:**

**Product Type:** shRNA Plasmids

Product Name: Myd88 Mouse shRNA Plasmid (Locus ID 17874)

**Locus ID:** 17874

**Vector:** pGFP-C-shLenti (TR30023)

E. coli Selection: Chloramphenicol (34 ug/ml)

Mammalian Cell

Selection:

Puromycin

Format: Lentiviral plasmids

**Components:** Myd88 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 17874).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.

RefSeq: BC005591, BC058787, NM 010851, NM 010851.1, NM 010851.2, BC051075, NM 010851.3

UniProt ID: P22366

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

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]

shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To

be certain that your variant of interest is targeted, please contact <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.





## Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).