

Product datasheet for TR513406

OriGene Technologies, Inc.

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Vimp Mouse shRNA Plasmid (Locus ID 109815)

Product data:

Product Type: shRNA Plasmids

Product Name: Vimp Mouse shRNA Plasmid (Locus ID 109815)

Locus ID: 109815

Synonyms: 1500011E07Rik; C78786; H-4; H-47; H4; H47; Se; Sels; Seps1; V; Vimp

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

Components: Selenos - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector (Gene ID =

109815). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

RefSeq: <u>BC011091</u>, <u>NM 024439</u>, <u>NM 024439.1</u>, <u>NM 024439.2</u>, <u>NM 024439.3</u>, <u>BC096566</u>

UniProt ID: Q9BCZ4

Summary: This gene encodes a transmembrane protein that is localized in the endoplasmic reticulum

(ER). It is involved in the degradation process of misfolded proteins in the ER, and may also have a role in inflammation control. This protein is a selenoprotein, containing the rare amino acid selenocysteine (Sec). Sec is encoded by the UGA codon, which normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, designated the Sec insertion sequence (SECIS) element, that is necessary for the

recognition of UGA as a Sec codon, rather than as a stop signal. Two additional

phylogenetically conserved stem-loop structures (Stem-loop 1 and Stem-loop 2) in the 3' UTR of this mRNA have been shown to function as modulators of Sec insertion (PMID:23614019). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq,

Jul 2017]

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).