

Product datasheet for TL517419

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Bmp8b Mouse shRNA Plasmid (Locus ID 12164)

Product data:

Product Type: shRNA Plasmids

Product Name: Bmp8b Mouse shRNA Plasmid (Locus ID 12164)

Locus ID: 12164 **Synonyms:** 0; Op3

Vector:pGFP-C-shLenti (TR30023)E. coli Selection:Chloramphenicol (34 ug/ml)

Mammalian Cell

Selection:

Puromycin

Format: Lentiviral plasmids

Components: Bmp8b - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 12164).

5µg purified plasmid DNA per construct

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

RefSeq: NM 007559, NM 007559.1, NM 007559.2, NM 007559.3, NM 007559.4, NM 007559.5,

BC137890

UniProt ID: P55105

Summary: This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta)

superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to

recruitment and activation of SMAD family transcription factors that regulate gene

expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. The encoded protein may play a role in the generation of primordial germ cells, and has been shown to stimulate thermogenesis in brown adipose tissue. Male mice lacking a functional copy of this gene exhibit variable degrees of germ-cell deficiency. Homozygous knockout mice of both sexes exhibit impaired thermogenesis and reduced metabolic rate, resulting in weight gain. This gene may have arose from a gene duplication event and its gene duplicate is also present on chromosome 4. [provided by

RefSeq, Jul 2016]

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).