

## Product datasheet for **TR517081**

### Deaf1 Mouse shRNA Plasmid (Locus ID 54006)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Deaf1 Mouse shRNA Plasmid (Locus ID 54006)
Locus ID:	54006
Synonyms:	AU042387; C230009B13Rik; NUDR
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Deaf1 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 54006). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">BC046399</a> , <a href="#">NM_001282072</a> , <a href="#">NM_001282073</a> , <a href="#">NM_001282076</a> , <a href="#">NM_016874</a> , <a href="#">NR_027769</a> , <a href="#">NR_027770</a> , <a href="#">NM_016874.1</a> , <a href="#">NM_016874.2</a> , <a href="#">NM_016874.3</a> , <a href="#">NM_001282076.1</a> , <a href="#">NM_001282072.1</a> , <a href="#">NM_001282073.1</a>
UniProt ID:	<a href="#">Q9Z1T5</a>
Summary:	Transcription factor that binds to sequence with multiple copies of 5'-TTC[CG]G-3' present in its own promoter and that of the HNRPA2B1 gene. Down-regulates transcription of these genes. Binds to the retinoic acid response element (RARE) 5'-AGGGTTCACCGAAAGTTCA-3'. Activates the proenkephalin gene independently of promoter binding, probably through protein-protein interaction (By similarity). Regulates epithelial cell proliferation and side-branching in the mammary gland. Required for neural tube closure and skeletal patterning. Controls the expression of peripheral tissue antigens in pancreatic lymph nodes. Isoform 1 displays greater transcriptional activity than isoform 2. Isoform 2 may inhibit transcriptional activity of isoform 1 by interacting with it and retaining it in the cytoplasm. Transcriptional activator of EIF4G3 (By similarity). May also involved in behavior (PubMed:24726472). [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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .



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**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](mailto: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).