OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TR502528

Oas1b Mouse shRNA Plasmid (Locus ID 23961)

Product data:

Product Type:	shRNA Plasmids
Locus ID:	23961
Synonyms:	F; Flv; L; L1; Mmu-L; Mmu-L1; O; Oas1; Oi; Oias-2; Oias2; W; Wnv
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Oas1b - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 23961). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC012877, NM_001083925, NM_011853, NR_003507, NM_001083925.1, BC012877.1
UniProt ID:	Q60856
Summary:	This gene is a member of the 2'-5' oligoA synthetase family, which are clustered on chromosome 5. The encoded protein functions in the interferon-regulated OAS/RNase L system, which mediates RNA decay as part of the innate antiviral immunity pathway. The protein binds double-stranded RNA and oligomerizes ATP, which activate the single-stranded RNA cleavage enzyme RNase L. This protein mediates resistance to flaviviruses such as West Nile virus. The majority of wild mouse strains produce a functional protein and are resistant to flavivirus infection, whereas some inbred mouse strains including the strain of the reference genome, C57BL/6J, contain a premature stop codon that inactivates this gene product. [provided by RefSeq, Jul 2008]
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 techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

View online »

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).