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Product datasheet for TR511339

Nelfb Mouse shRNA Plasmid (Locus ID 58202)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Nelfb Mouse shRNA Plasmid (Locus ID 58202)
Locus ID:	58202
Synonyms:	A730008L03Rik; AB041607; AI663983; Cob; Cobra1; Nelf-b
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Nelfb - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector (Gene ID = 58202). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC004762, NM_021393, NM_021393.1, NM_021393.2, NM_021393.3
UniProt ID:	Q8C4Y3
Summary:	This gene encodes subunit B of a metazoan-specific, four-subunit protein complex that regulates promoter-proximal pausing of RNA polymerase II. RNA polymerase II pausing is thought to be important for coordination of gene transcription during embryonic development and stress responses. Consistently, disruption of this gene in mouse causes inner cell mass deficiency and embryonic lethality. In addition, this gene is required for maintenance of mouse embryonic stem cells by preventing expression of developmental genes. In adult mice, conditional deletion of this gene results in cardiomyopathy and impaired response to cardiac stress. Multiple protein isoforms are encoded through the use of a non-AUG (CUG) initiation codon and an alternative downstream AUG initiation codon. In addition, alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]
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.

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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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).