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Product datasheet for TR503421

Rbm8a Mouse shRNA Plasmid (Locus ID 60365)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Rbm8a Mouse shRNA Plasmid (Locus ID 60365)
Locus ID:	60365
Synonyms:	2310057C03Rik; AA673428; Rbm8
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Rbm8a - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 60365). 5µg purified plasmid DNA per construct Non-effective 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC020086, BC058376, NM_001102407, NM_025875, NM_001102407.1, NM_025875.1, NM_025875.2, BC094944
UniProt ID:	Q9CWZ3
Summary:	Required for pre-mRNA splicing as component of the spliceosome (By similarity). Core component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junctions on mRNAs. The EJC is a dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. The EJC marks the position of the exon-exon junction in the mature mRNA for the gene expression machinery and the core components remain bound to spliced mRNAs throughout all stages of mRNA metabolism thereby influencing downstream processes including nuclear mRNA export, subcellular mRNA localization, translation efficiency and nonsense-mediated mRNA decay (NMD). Its removal from cytoplasmic mRNAs requires translation initiation from EJC-bearing spliced mRNAs. Associates preferentially with mRNAs produced by splicing. Does not interact with pre-mRNAs, introns, or mRNAs produced from intronless cDNAs. Associates with both nuclear mRNAs and newly exported cytoplasmic mRNAs (By similarity). [UniProtKB/Swiss-Prot Function]

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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.

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).