

## Product datasheet for **TL518863V**

### Spdya Mouse shRNA Lentiviral Particle (Locus ID 70891)

#### Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	Spdya Mouse shRNA Lentiviral Particle (Locus ID 70891)
Locus ID:	70891
Synonyms:	4921517J08Rik; 4930548B21Rik; GS4; MLZ-465; Spdy1
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	Spdya - Mouse shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10 <sup>7</sup> TU/ml.
RefSeq:	<a href="#">NM_001142631</a> , <a href="#">NM_029254</a> , <a href="#">NM_029254.1</a> , <a href="#">NM_001142631.1</a> , <a href="#">BC147706</a> , <a href="#">BC147719</a>
UniProt ID:	<a href="#">Q5IBH7</a>
Summary:	Regulates the G1/S phase transition of the cell cycle by binding and activating CDK1 and CDK2 (PubMed:15611625). Contributes to CDK2 activation without promoting CDK2 phosphorylation, by inducing a conformation change of the CDK2 T-loop that obstructs the substrate-binding cleft prior to kinase activation. Interferes with CDKN1B-mediated inhibition of CDK2. Mediates cell survival during the DNA damage process through activation of CDK2 (By similarity).[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> .



[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](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).