

## Product datasheet for **TR500026**

### Acta2 Mouse shRNA Plasmid (Locus ID 11475)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Acta2 Mouse shRNA Plasmid (Locus ID 11475)
Locus ID:	11475
Synonyms:	0610041G09Rik; a-; a-SMA; Ac; Actvs; al; alphaSMA; SM; SMAalpha; SMalphaA
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Acta2 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 11475). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">BC064800</a> , <a href="#">NM_007392</a> , <a href="#">NM_007392.1</a> , <a href="#">NM_007392.2</a> , <a href="#">NM_007392.3</a>
UniProt ID:	<a href="#">P62737</a>
Summary:	The protein encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in smooth muscle. [provided by RefSeq, Feb 2021]
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).