

## Product datasheet for **TR510620**

### Scap Mouse shRNA Plasmid (Locus ID 235623)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Scap Mouse shRNA Plasmid (Locus ID 235623)
Locus ID:	235623
Synonyms:	9530044G19; mKIAA0199
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Scap - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 235623). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">BC070437</a> , <a href="#">BC072633</a> , <a href="#">NM_001001144</a> , <a href="#">NM_001103162</a> , <a href="#">NM_001001144.1</a> , <a href="#">NM_001001144.2</a> , <a href="#">NM_001001144.3</a> , <a href="#">NM_001103162.1</a> , <a href="#">NM_001103162.2</a> , <a href="#">BC039638</a> , <a href="#">BC051066</a> , <a href="#">BC055472</a> , <a href="#">BC069955</a> , <a href="#">BM250223</a>
UniProt ID:	<a href="#">Q6GQT6</a>
Summary:	Escort protein required for cholesterol as well as lipid homeostasis. Regulates export of the SCAP/SREBF complex from the ER upon low cholesterol. Formation of a ternary complex with INSIG at high sterol concentrations leads to masking of an ER-export signal in SCAP and retention of the complex in the ER. Low sterol concentrations trigger release of INSIG, a conformational change in the SSC domain of SCAP, unmasking of the ER export signal, recruitment into COPII-coated vesicles, transport to the Golgi complex, proteolytic cleavage of SREBF in the Golgi, release of the transcription factor fragment of SREBF from the membrane, its import into the nucleus and up-regulation of LDLR, INSIG1 and the mevalonate pathway. [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> .



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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).