

## Product datasheet for **TL517342**

### Proc Mouse shRNA Plasmid (Locus ID 19123)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Proc Mouse shRNA Plasmid (Locus ID 19123)
Locus ID:	19123
Synonyms:	P; PC
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Proc - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 19123). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<u><a href="#">BC013896</a></u> , <u><a href="#">NM_001042767</a></u> , <u><a href="#">NM_001042768</a></u> , <u><a href="#">NM_008934</a></u> , <u><a href="#">NR_045173</a></u> , <u><a href="#">NM_001042768.1</a></u> , <u><a href="#">NM_001042768.2</a></u> , <u><a href="#">NM_001042768.3</a></u> , <u><a href="#">NM_008934.1</a></u> , <u><a href="#">NM_008934.2</a></u> , <u><a href="#">NM_008934.3</a></u> , <u><a href="#">NM_008934.4</a></u> , <u><a href="#">NM_001042767.1</a></u> , <u><a href="#">NM_001042767.3</a></u>
UniProt ID:	<u><a href="#">P33587</a></u>
Summary:	This gene encodes the vitamin K-dependent protein C, which plays a vital role in the anticoagulation pathway. The encoded protein undergoes proteolytic processing including activation by thrombin-thrombomodulin complex to form the anticoagulant serine protease that degrades activated coagulation factors. A complete lack of the encoded protein in mice results in severe perinatal consumptive coagulopathy in the brain and liver, resulting in death within 24 hours after birth. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate the mature protein. [provided by RefSeq, Sep 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 <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).