

## Product datasheet for **TR500234**

### C3 Mouse shRNA Plasmid (Locus ID 12266)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	C3 Mouse shRNA Plasmid (Locus ID 12266)
Locus ID:	12266
Synonyms:	AI255234; ASP; HSE-MSF; Plp
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	C3 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 12266). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">BC043338</a> , <a href="#">NM_009778</a> , <a href="#">NM_009778.1</a> , <a href="#">NM_009778.2</a> , <a href="#">NM_009778.3</a> , <a href="#">BC029976</a>
UniProt ID:	<a href="#">P01027</a>
Summary:	This gene encodes complement protein C3 which plays a central role in the classical, alternative and lectin activation pathways of the complement system. The encoded preproprotein undergoes a multi-step processing to generate various functional peptides. Mice deficient in the encoded protein fail to clear bacteria from the blood stream upon infection, display diminished airway hyperresponsiveness and lung eosinophilia upon allergen-induced pulmonary allergy, and develop severe lung injury after deposition of IgG immune complexes. Deficiency of the homolog of the encoded protein in humans was found to be associated with increased susceptibility to infections, age-related macular degeneration, and atypical hemolytic uremic syndrome. [provided by RefSeq, Mar 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).