

Product datasheet for **TR500461**

Ctsl Mouse shRNA Plasmid (Locus ID 13039)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Ctsl Mouse shRNA Plasmid (Locus ID 13039)
Locus ID:	13039
Synonyms:	1190035F06Rik; CatL; Ctsl1; fs; ME; MEP; nkt
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Ctsl - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 13039). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC068163 , NM_009984 , NM_009984.1 , NM_009984.2 , NM_009984.3 , NM_009984.4
UniProt ID:	P06797
Summary:	This gene encodes a member of the peptidase C1 (papain) family of cysteine proteases. The encoded preproprotein is proteolytically processed to generate multiple protein products. These products include the activation peptide and the cathepsin L1 heavy and light chains. The mature enzyme appears to be important in embryonic development through its processing of histone H3 and may play a role in disease progression in a model of kidney disease. Homozygous knockout mice for this gene exhibit hair loss, skin thickening, bone and heart defects, and enhanced susceptibility to bacterial infection. A pseudogene of this gene has been identified in the genome. [provided by RefSeq, Aug 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 techsupport@origene.com . If you need a special design or shRNA sequence, please utilize our custom shRNA service .



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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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).