

Product datasheet for **TR514620**

Usp15 Mouse shRNA Plasmid (Locus ID 14479)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Usp15 Mouse shRNA Plasmid (Locus ID 14479)
Locus ID:	14479
Synonyms:	4921514G19Rik; AI327321; E430033I05Rik; Gcap; Gcap18
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Usp15 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 14479). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC050042 , NM_001301628 , NM_027604 , NM_027604.2 , NM_027604.3 , NM_027604.4 , NM_001301628.1 , BC003978
UniProt ID:	Q8R5H1
Summary:	The protein encoded by this gene is a member of the large ubiquitin specific protease (Usp) family of proteins. These proteins are known to cleave ubiquitin, and contain a conserved cysteine residue (Cys box) and two conserved histidine residues (His box) that are thought to form part of the active site of the protease. This protein has been shown to cleave both the ubiquitin-proline and the ubiquitin-methionine bonds in vitro. This protein is thought to regulate many cellular processes through its deubiquitination activity, including the transforming growth factor beta (TGF-beta) pathway. Cardiac-specific overexpression of the human ortholog of this gene in mice causes enlargement of the heart that is more pronounced in the atrium than in the ventricle. This gene has two pseudogenes on chromosome 14. Alternative splicing results in multiple transcript variants that encode multiple protein isoforms.[provided by RefSeq, Aug 2014]
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).