

Product datasheet for **TL512832**

Usp3 Mouse shRNA Plasmid (Locus ID 235441)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Usp3 Mouse shRNA Plasmid (Locus ID 235441)
Locus ID:	235441
Synonyms:	AA409661; BC017156
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Usp3 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 235441). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	BC017156 , NM_001302116 , NM_001302122 , NM_144937 , NM_144937.1 , NM_144937.2 , NM_144937.3 , NM_144937.4 , NM_001302122.1 , NM_001302116.1 , BC053974 , BM206502
UniProt ID:	Q91W36
Summary:	The protein encoded by this gene is a chromatin-associated histone 2A and 2B deubiquitinating enzyme that negatively regulates the DNA damage response. Mice deficient for this enzyme have reduced hematopoietic stem cell reserves, demonstrating a requirement in hematopoietic stem cell homeostasis. In addition, knock down of protein levels results in spontaneous tumor development and shortened lifespan, consistent with a function in preserving chromosomal integrity. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 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).