

Product datasheet for **TR713695**

Tmub1 Rat shRNA Plasmid (Locus ID 362301)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Tmub1 Rat shRNA Plasmid (Locus ID 362301)
Locus ID:	362301
Synonyms:	Hops
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Tmub1 - Rat, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 362301). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001080153 , NM_198781 , NM_198781.1 , NM_198781.2 , NM_198781.3 , NM_001080153.1 , NM_001080153.2 , BC059162
UniProt ID:	Q53AQ4
Summary:	The protein encoded by this gene belongs to a group of integral ubiquitin-like domain containing proteins that are involved in a range of cellular processes. In mouse, the protein exists in uncleaved transmembrane forms as well as a cleaved form that shuttles between the nucleus and cytoplasm. During liver regeneration in rat, it has been shown that the protein shuttles from the cytoplasm to the nucleus to inhibit hepatocyte proliferation. Homozygous null mutant mice display normal development and physiology but exhibit a strong increase in locomoter activity during the dark phase of the light:dark cycle, indicating a function in behavioral regulation. Alternative splicing results in multiple transcript variants. [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 techsupport@origene.com . If you need a special design or shRNA sequence, please utilize our custom shRNA service .



[View online »](#)

**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).