

Product datasheet for **TR321396**

TYW1B Human shRNA Plasmid Kit (Locus ID 441250)

Product data:

Product Type:	shRNA Plasmids
Product Name:	TYW1B Human shRNA Plasmid Kit (Locus ID 441250)
Locus ID:	441250
Synonyms:	LINC00069; NCRNA00069; RSAFD2
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	TYW1B - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 441250). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001145440 , NM_001145441 , NM_001145440.1 , NM_001145440.2 , NM_001145441.1 , BC068520 , BC106019 , NR_027031
UniProt ID:	Q6NUM6
Summary:	Wybutosine is a hypermodified guanosine found in phenylalanine tRNA. Wybutosine functions to stabilize codon-anticodon interactions during ribosome decoding and therefore supports the maintenance of the reading frame. In yeast, the homolog of this gene is essential for the synthesis of wybutosine. The human genome contains two closely related genes that putatively function in wybutosine synthesis. The open reading frame of this locus is disrupted in some individuals. Thus, this locus appears to be an evolving pseudogene, but may still be functional in some members of the population. [provided by RefSeq, Apr 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).