

Product datasheet for **TR300442**

Wilms Tumor Protein (WT1) Human shRNA Plasmid Kit (Locus ID 7490)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Wilms Tumor Protein (WT1) Human shRNA Plasmid Kit (Locus ID 7490)
Locus ID:	7490
Synonyms:	AWT1; GUD; NPHS4; WAGR; WIT-2; WT33
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	WT1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 7490). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_000378 , NM_001198551 , NM_001198552 , NM_024424 , NM_024425 , NM_024426 , NM_000378.1 , NM_000378.2 , NM_000378.3 , NM_000378.4 , NM_024426.1 , NM_024426.2 , NM_024426.3 , NM_024426.4 , NM_024424.1 , NM_024424.3 , NM_024425.1 , NM_024425.2 , NM_001198551.1 , NM_001198552.1 , BC032861 , BC046461 , NM_001367854 , NR_160306 , NM_001198552.2 , NM_000378.6 , NM_024426.5 , NM_024424.5
UniProt ID:	P19544
Summary:	This gene encodes a transcription factor that contains four zinc-finger motifs at the C-terminus and a proline/glutamine-rich DNA-binding domain at the N-terminus. It has an essential role in the normal development of the urogenital system, and it is mutated in a small subset of patients with Wilms tumor. This gene exhibits complex tissue-specific and polymorphic imprinting pattern, with biallelic, and monoallelic expression from the maternal and paternal alleles in different tissues. Multiple transcript variants have been described. In several variants, there is evidence for the use of a non-AUG (CUG) translation initiation codon upstream of, and in-frame with the first AUG. Authors of PMID:7926762 also provide evidence that WT1 mRNA undergoes RNA editing in human and rat, and that this process is tissue-restricted and developmentally regulated. [provided by RefSeq, Mar 2015]



[View online »](#)

- 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](#).
- 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).