

Product datasheet for **RC221847L4V**

Wilms Tumor Protein (WT1) (NM_024425) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Wilms Tumor Protein (WT1) (NM_024425) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Wilms Tumor Protein
Synonyms:	AWT1; GUD; WAGR; Wilms tumor 1; WIT-2; WT33
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_024425
ORF Size:	1500 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC221847).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_024425.2 , NP_077743.2
RefSeq Size:	2978 bp
RefSeq ORF:	1502 bp
Locus ID:	7490
Cytogenetics:	11p13
Protein Families:	Druggable Genome, Transcription Factors
MW:	54.4 kDa



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Gene 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]