

## Product datasheet for **RC220079L1V**

### Wilms Tumor Protein (WT1) (NM\_000378) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Wilms Tumor Protein (WT1) (NM_000378) Human Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | Wilms Tumor Protein  |
| Synonyms:                 | AWT1; GUD; NPHS4; WAGR; WIT-2; WT33  |
| Mammalian Cell Selection: | None   |
| Vector:                   | pLenti-C-Myc-DDK (PS100064)  |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_000378  |
| ORF Size:                 | 1491 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC220079).   |
| 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. <a href="#">More info</a> |
| 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:                   | <a href="#">NM_000378.3</a>  |
| RefSeq Size:              | 2977 bp  |
| RefSeq ORF:               | 1509 bp  |
| Locus ID:                 | 7490   |
| UniProt ID:               | <a href="#">P19544</a>   |
| Cytogenetics:             | 11p13  |
| Protein Families:         | Druggable Genome, Transcription Factors  |
| MW:                       | 54.3 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]