

## Product datasheet for **RC231130**

### Wilms Tumor Protein (WT1) (NM\_001198552) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wilms Tumor Protein (WT1) (NM_001198552) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wilms Tumor Protein
Synonyms:	AWT1; GUD; NPHS4; WAGR; WIT-2; WT33
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC231130 representing NM_001198552 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGAGAAGGGTTACAGCACGGTCACCTTCGACGGGACGCCAGCTACGGTCACACGCCCTCGCACCATG  
CGGCGCAGTTCCTCAACCACTCATTCAAGCATGAGGATCCCATGGGCCAGCAGGGCTCGTGGGTGAGCA  
GCAGTACTCGGTGCCGCCCGGTCTATGGCTGCCACACCCACCGACAGCTGCACCGGCAGCCAGGCT  
TTGCTGCTGAGGACGCCCTACAGCAGTGACAATTTATACCAAATGACATCCAGCTTGAATGCATGACCT  
GGAATCAGATGAACTTAGGAGCCACCTAAAGGGCCACAGCACAGGGTACGAGAGCGATAACCACACAAC  
GCCCATCCTCTGCGGAGCCAATACAGAATACACACGCACGGTGTCTTCAGAGGCATTAGGATGTGCGA  
CGTGTGCCTGGAGTAGCCCCGACTCTTGTACGGTCGGCATCTGAGACCAGTGAGAAACGCCCTTTCATGT  
GTGCTTACCCAGGCTGCAATAAGAGATATTTAAGCTGTCCCACTTACAGATGCACAGCAGGAAGCACAC  
TGGTGAGAAACCATACAGTGTGACTTCAAGGACTGTGAACGAAGGTTTTCTCGTTCAGACCAGCTCAAA  
AGACACCAAGGAGACATACAGGTGTGAAACATTCCAGTGTAAAACCTTGTGAGGAAAGTTCTCCCGGT  
CCGACCACCTGAAGACCCACACCAGGACTCATACAGGTAACAAGTAAAAGCCCTTCAGCTGTGCGGTG  
GCCAAGTTGTGAGAAAAGTTTGCCCGGTGAGTGAATTAGTCCGCCATCACAAATGCATCAGAGAAAC  
ATGACCAAACCTCAGCTGGCGCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RC231130 representing NM\_001198552  
 Red=Cloning site Green=Tags(s)

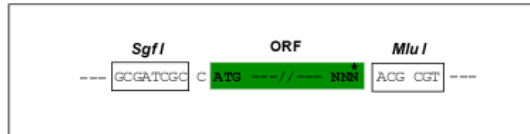
MEKGYSTVTFDGTSPSYGHTPSHAAQFPNHSFKHEDPMGQQGSLGEQQYSVPPPVYGCHTPTDSC TGSQA  
 LLLRTPYSSDNL YQMTSQLCEMTWNQMN LGATLKGHSTGYESDNHTT P ILCGAQYRIHTHG VFRGIQDVR  
 RVPGVAPTLVRSASETSEKRPFMCAYPGCNKRYFKLSHLQMHSRKHTGEKPYQCDFKDCERRF SRSDQLK  
 RHQRRHTGVKPFQCKTCQRKFSRSDHLKTHTRTHTGKTSEKPFSCRWPSCQKKFARSDELVRHHNMHQRN  
 MTKLQLAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001198552

**ORF Size:** 864 bp

**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.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001198552.2](#)

**RefSeq ORF:** 867 bp

**Locus ID:** 7490

**UniProt ID:** [P19544](#)

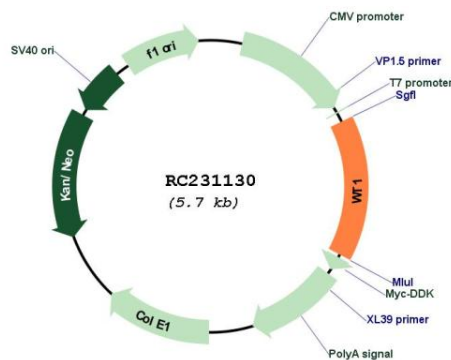
**Cytogenetics:** 11p13

**Protein Families:** Druggable Genome, Transcription Factors

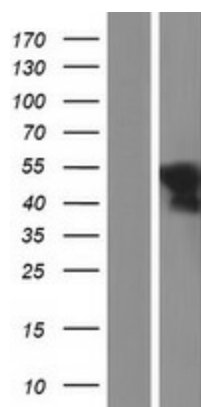
**MW:** 33.5 kDa

**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]

### Product images:



Circular map for RC231130



Western blot validation of overexpression lysate (Cat# [LY434129]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231130 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).