

Product datasheet for **RG231130**

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:	TurboGFP
Symbol:	WT1
Synonyms:	AWT1; GUD; NPHS4; WAGR; WIT-2; WT33
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG231130 representing NM_001198552 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAGAAGGGTTACAGCACGGTCACCTTCGACGGGACGCCAGCTACGGTCACACGCCCTCGCACCATG
CGGCGCAGTTCCCAACCACTCATTCAAGCATGAGGATCCCATGGGCCAGCAGGGCTCGTGGGTGAGCA
GCAGTACTCGGTGCCGCCCGGTCTATGGCTGCCACACCCACCACAGCTGCACCGGCAGCCAGGCT
TTGCTGCTGAGGACGCCCTACAGCAGTGACAATTTATACCAAATGACATCCAGCTTGAATGCATGACCT
GGAATCAGATGAACTTAGGAGCCACCTAAAGGGCCACAGCACAGGGTACGAGAGCGATAACCACACAAC
GCCCATCCTCTGCGGAGCCAATACAGAATACACACGCACGGTGTCTTCAGAGGCATTAGGATGTGCGA
CGTGTGCCTGGAGTAGCCCCGACTCTTGTACGGTCGGCATCTGAGACCAGTGAGAAACGCCCTTTCATGT
GTGCTTACCCAGGCTGCAATAAGAGATATTTAAGCTGTCCCCTTACAGATGCACAGCAGGAAGCACAC
TGGTGAGAAACCATACCACTGTGACTTCAAGGACTGTGAACGAAGGTTTTCTCGTTCAGACCAGCTCAA
AGACACCAAGGAGACATACAGGTGTGAAACATTCCAGTGTAAAACCTTGTGAGGAAAGTTCTCCCGGT
CCGACCACCTGAAGACCCACACCAGGACTCATACAGGTAACAAGTAAAAGCCCTTACAGTGTGCGGTG
GCCAAGTTGTGAGAAAAGTTTGCCCGTCCAGATGAATTAGTCCGCCATCACAACATGCATCAGAGAAAC
ATGACCAAACCTCAGCTGGCGCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG231130 representing NM_001198552
 Red=Cloning site Green=Tags(s)

MEKGYSTVTFDGTSPSYGHTPSHHAQAQFPNHSFKHEDPMGQQGSLGEQQYSVPPPVYVGCHTPTDSCSTGSQA
 LLLRTPYSSDNL YQMTSQLCEMWNQMNLGATLKGHSTGYESDNHTTPI LCQAQYRIHTHG VFRGIQDVR
 RVPGVAPTLVRSASETSEKRPFMCAYPGCNKRYFKLSHLQMHSRKHTGEKPYQCDFKDCERRF SRSDQLK
 RHQRRHTGVKPFQCKTCQRKFSRSDHLKTHTRHTGKTSEKPFSCRWPSCQKKF ARSDELVRHHNMHQRN
 MTKLQLAL

TRTRPLE - GFP Tag - V

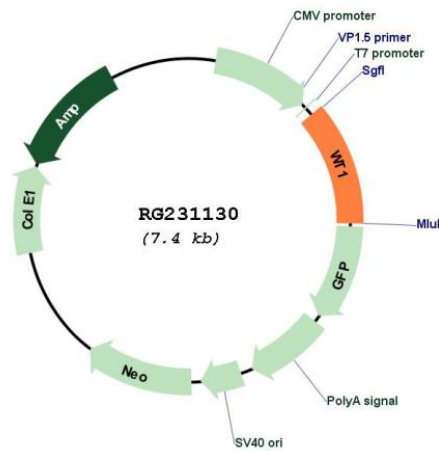
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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:	<ol style="list-style-type: none">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 Size:	2438 bp
RefSeq ORF:	867 bp
Locus ID:	7490
UniProt ID:	P19544
Cytogenetics:	11p13
Protein Families:	Druggable Genome, Transcription Factors
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]