

Product datasheet for **SC308799**

Wilms Tumor Protein (WT1) (NM_024426) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Wilms Tumor Protein (WT1) (NM_024426) Human Untagged Clone
Tag: Tag Free
Symbol: Wilms Tumor Protein
Synonyms: AWT1; GUD; NPHS4; WAGR; WIT-2; WT33
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_024426 edited
 CTGCAGGACCCGGCTTCCACGTGTGTCCCGGAGCCGGCGTCTCAGCACACGCTCCGCTCC
 GGGCCTGGGTGCCTACAGCAGCCAGAGCAGCAGGGAGTCCGGGACCCGGGCGGCATCTGG
 GCCAAGTTAGGCGCCCGGAGGCCAGCGCTGAACGTCTCCAGGGCCGGAGGAGCCGCGGG
 GCGTCCGGGTCTGAGCCGAGCAAATGGGCTCCGACGTGCGGGACCTGAACGCGTGCTG
 CCCGCCGTCCCCTCCCTGGGTGGCGGCGGGCTGTGCCCTGCCTGTGAGCGGCGCGGG
 CAGTGGGCGCCGGTGTGGACTTTGCGCCCCGGGCGCTTCGGCTTACGGGTGTTGGGC
 GGCCCCGCGCCGACCCGGCTCCGCCGCCACCCCGCCGCGCCGCTCACTCCTTCATC
 AAACAGGAGCCGAGCTGGGGCGGCGGGAGCCGACGAGGAGCAGTGCCTGAGCGCCTTC
 ACTGTCCACTTTTCCGGCCAGTTCACTGGCACAGCCGGAGCCTGTGCTACGGGCCCTTC
 GGTCTCTCCGCCAGCCAGGCGTCATCCGGCCAGGCCAGGATGTTTCTAACGCGCCC
 TACCTGCCAGCTGCCTCGAGAGCCAGCCCGCTATTGCAATCAGGGTTACAGCACGGTC
 ACCTTCGACGGGACGCCAGCTACGGTACACGCCCTCGCACCATGCGGGCAGTTCCCC
 AACCACTATTCAAGCATGAGGATCCCATGGGCCAGCAGGGCTCGCTGGGTGAGCAGCAG
 TACTCGGTGCCGCCCCGGTCTATGGGTGCCACACCCACCCGACAGCTGCACGGCAGC
 CAGGCTTTGCTGCTGAGGACGCCCTACAGCAGTGACAATTTATACCAAATGACATCCCAG
 CTTGAATGCATGACCTGGAATCAGATGAACTTAGGAGCCACCTTAAAGGGAGTTGCTGCT
 GGGAGCTCCAGCTCAGTAAAATGGACAGAAGGGCAGAGCAACCACAGCACAGGGTACGAG
 AGCGATAACACACAACGCCCATCCTCTGCGGAGCCCAATACAGAATACACAGCAGCGGT
 GTCTTCAGAGGCATTAGGATGTGCGACGTGTGCCTGGAGTAGCCCGACTCTTGTACGG
 TCGGCATCTGAGACCAGTGAGAAACGCCCTTCATGTGTGCTTACCCAGGCTGCAATAAG
 AGATATTTAAGCTGTCCCACTTACAGATGCACAGCAGGAAGCACACTGGTGAGAAACCA
 TACCAGTGTGACTTCAAGGACTGTGAACGAAGTTTTCTCGTTCAGACCAGCTCAAAAGA
 CACCAAAGGAGACATACAGGTGTGAAACCATTCCAGTGTAAAACCTTGTACAGCGAAAGTTC
 TCCCGGTCCGACCACCTGAAGACCCACACCAGGACTCATACAGGTAAAACAAGTAAAAG
 CCCTTCAGCTGTGGTGGCCAAGTTGTGAGAAAAAGTTTGCCCGTCCAGTGAATTAGTC
 CGCCATACAACATGCATCAGAGAAACATGACCAAACCTCCAGCTGGCGCTTTGA



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Restriction Sites:	Please inquire
ACCN:	NM_024426
Insert Size:	3000 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA
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_024426.3 , NP_077744.3
RefSeq Size:	3029 bp
RefSeq ORF:	1554 bp
Locus ID:	7490
UniProt ID:	P19544
Cytogenetics:	11p13
Domains:	WT1, zf-C2H2
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]

Transcript Variant: This variant (D) represents the longest transcript and encodes the longest isoform (D). It initiates translation from a non-AUG (CUG) site, and also from a downstream, in-frame AUG. **CCDS Note:** The coding region has been updated to start at a non-AUG translation start codon that is supported by a publication and protein conservation.