

Product datasheet for **RC403482**

Wilms Tumor Protein (WT1) (NM_024426) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	Wilms Tumor Protein (WT1) (NM_024426) Human Mutant ORF Clone
Mutation Description:	F460L
Affected Codon#:	460
Affected NT#:	1380
Nucleotide Mutation:	WT1 Mutant (F460L), Myc-DDK-tagged ORF clone of Homo sapiens Wilms tumor 1 (WT1), transcript variant D as transfection-ready DNA
Effect:	Focal segmental glomerulosclerosis
Symbol:	WT1
Synonyms:	AWT1; GUD; NPHS4; WAGR; WIT-2; WT33
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_024426
ORF Size:	1551 bp
Restriction Sites:	Sgfi-MluI



[View online »](#)

ORF Nucleotide Sequence:

>RC403482 representing NM_024426
 Red=Cloning site Blue=ORF Green=Tags(s)
 TTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGGACCCGGCTTCCACGTGTGTCCCGGAGCCGGCTCTCAGCACACGCTCCGCTCCGGGCCTGGGT
 GCCTACAGCAGCCAGAGCAGCAGGGAGTCCGGGACCCGGCGGCATCTGGGCCAAGTTAGCGCCGCCGA
 GGCCAGCGCTGAACGTCTCCAGGGCCGAGGAGCCGCGGGCGTCCGGGTCTGAGCCGACGAAATGGGC
 TCCGACGTGCGGGACCTGAACGCGCTGTGCCCGCCGTCCTCCCTGGGTGGCGGCGCGGCTGTGCC
 TGCCTGTGAGCGGCGCGCAGTGGCGCCGGTGTGGACTTTGCGCCCCGGGCGCTTCGGCTTACGG
 GTCGTTGGGCGGCCCCGCGCCGCCACCGGCTCCGCCGCCACCCCGCGCGCGCCCTACTCCTTCATC
 AAACAGGAGCCGAGCTGGGGCGGCGGAGCCGCACGAGGAGCAGTGCCTGAGCGCCTTACTGTCCACT
 TTTCCGGCCAGTTCACTGGCACAGCCGAGCCTGTGCTACGGGCCCTTCGGTCTCTCCGCCAGCCA
 GCGTCTATCCGGCCAGGCCAGGATGTTTCTAACGCGCCCTACCTGCCAGCTGCCTCGAGAGCCAGCCC
 GCTATTCGCAATCAGGGTTACAGCACGGTCACCTTCGACGGGACGCCAGCTACGGTACACGCCCTCGC
 ACCATGCGGCGCAGTTCCCAACCACTATTCAAGCATGAGGATCCCATGGGCCAGCAGGGCTCGCTGGG
 TGAGCAGCAGTACTCGGTGCCGCCCGGCTATGGTGCCACACCCCAACCGACAGCTGCACCGGCAGC
 CAGGCTTTGCTGCTGAGGACGCCCTACAGCAGTGAACAATTTATACCAATGACATCCCAGCTTGAATGCA
 TGACCTGGAATCAGATGAACTTAGGAGCCACCTAAAGGGAGTTGCTGCTGGGAGCTCCAGCTCAGTGAA
 ATGGACAGAAGGGCAGAGCAACCACAGCACAGGATACGAGAGCGATAACCACACAACGCCCATCTCTGC
 GGAGCCCAATACAGAATACACACGCACGGTGTCTTACAGGGCATTACAGGATGTGCGACGTGTGCC
 TAGCCCCGACTTTGTACGGTCCGCATCTGAGACCAGTGAAGAACGCCCTTTCATGTGCTTACCCAGG
 CTGCAATAAGAGATATTTTAAGCTGTCCCACTTACAGATGCACAGCAGGAAGCACACTGGTGAGAAACCA
 TACCAGTGTGACTTCAAGGACTGTGAACGAAGTTTTTCTCGTTACAGACCAGCTCAAAAGACACAAAGGA
 GACATACAGGTGTGAAACCATTCCAGTGTAAAACCTTGTGAGCGAAAGTTGTCCCGGTCCGACCACCTGAA
 GACCCACACCAGGACTCATAAGGTAACAAGTGAAGAACCCCTTACAGTGTGCGTGGCCAAAGTTGTGAG
 AAAAAGTTTCCCGGTGAGTGAATTAGTCCGCCATCACAAATGCATCAGAGAAACATGACCAAACTCC
 AGCTGGCGCTT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

>RC403482 representing NM_024426
 Red=Cloning site Green=Tags(s)
 MQDPASTCVPEPASQHTLRSGPGCLQQPEQQVDRDPGGIWAKLGAAEASAERLQRRSRGASGSEPPQMG
 SDVDRDLNALLPAVPSLGGGGCALPVSGAAQWAPVLDFAAPPASAYGSLGGPAPPAPPPPPPPPHSFI
 KQEPSWGAEPHEEQCLSAFTVHFSGQFTGTAGACRYGPFPPPPSQASSGQARMFPNAPYLPSCLESP
 AIRNQYSTVTFDGTSPSYGHTPSHAAQFPNHSFKHEDPMGQQGSLGEQQYSVPPPVYGCHTPTDSTGS
 QALLLRTPYSSDNLQMTSQLCMTWNQMLGATLKGVAAGSSSVKWTEGQSNHSTGYESDNHTTPILC
 GAQYRIHTHGVRGIQDVRVPGVAPTLVRSASETSEKRPFMCAYPGCNKRYFKLSHLQMSRKHTGEKP
 YQCDFKDCERRFSRSDQLKRHRRTGVKPFQCKTCQRKLSRSDHLKTHTRHTGKTSEKPFSCRWPSCQ
 KKFARSDELVRHHNMHRNMTKLQAL

SGPTRRRLEQKLI**SEEDLAANDILDYKDDDDKV**

Restriction Sites:

Sgfl-MluI

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]