

Product datasheet for **RC403467**

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: | Q437P |
| Affected Codon#: | 437 |
| Affected NT#: | 1310 |
| Nucleotide Mutation: | WT1 Mutant (Q437P), Myc-DDK-tagged ORF clone of Homo sapiens Wilms tumor 1 (WT1), transcript variant D as transfection-ready DNA |
| Effect: | Denys-Drash syndrome |
| 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: | Sgfl-Mlul |



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ORF Nucleotide Sequence:

>RC403467 representing NM_024426
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGGACCCGGCTTCACGTGTGTCCCGGAGCCGGCTCTCAGCACACGCTCCGCTCCGGGCCTGGT
 GCCTACAGCAGCCAGAGCAGCAGGGAGTCCGGGACCCGGCGGCATCTGGGCCAAGTTAGCGCCGCCGA
 GGCCAGCGCTGAACGTCTCCAGGGCCGAGGAGCCGCGGGCGTCCGGGTCTGAGCCGACGAAATGGGC
 TCCGACGTGCGGGACCTGAACGCGCTGCTGCCGCCGTCCCTCCCTGGGTGGCGGCGCGGCTGTGCC
 TGCCTGTGAGCGGCGCGGCAGTGGCGCCGGTGTGGACTTTGCGCCCCGGGCGCTTCGGCTTACGG
 GTCGTTGGGCGGCCCGCGCCGACCCGGCTCCGCCGCCACCCCGCGCGCGCCCTACTCCTTCATC
 AAACAGGAGCCGAGCTGGGGCGGCGGAGCCGCACGAGGAGCAGTGCCTGAGCGCCTTACTGTCCACT
 TTTCCGGCCAGTTCACTGGCACAGCCGAGCCTGTGCTACGGGCCCTTCGGTCTCTCCGCCAGCCA
 GCGTCTATCCGGCCAGGCCAGGATGTTTCTAACGCGCCCTACCTGCCAGCTGCCTCGAGAGCCAGCCC
 GCTATTGCAATCAGGGTTACAGCACGGTCACCTTCGACGGGACGCCAGCTACGGTACACGCCCTCGC
 ACCATGCGGCGCAGTTCCCAACCCTCATTCAAGCATGAGGATCCCATGGGCCAGCAGGGCTCGTGGG
 TGAGCAGCAGTACTCGGTGCCGCCCGGTCTATGGTGCCACACCCACCACAGCTGCACCGGCAGC
 CAGGCTTTGCTGCTGAGGACGCCCTACAGCAGTGAATTTATACCAATGACATCCCAGCTTGAATGCA
 TGACCTGGAATCAGATGAACTTAGGAGCCACTTAAAGGGAGTTGCTGCTGGGAGCTCCAGCTCAGTAA
 ATGGACAGAAGGGCAGAGCAACCACAGCACAGGTACGAGAGCGATAACCACACAACGCCATCCTCTGC
 GGAGCCCAATACAGAATACACACGCACGGTGTCTTACAGGGCATTGAGGATGTGCGACGTGTGCCGGAG
 TAGCCCCGACTTTGTACGGTCCGCATCTGAGACCAGTGAAGAACGCCCTTTCATGTGCTTACCCAGG
 CTGCAATAAGAGATATTTTAAGCTGTCCCACTTACAGATGCACAGCAGGAAGCACACTGGTGAGAAACCA
 TACCAGTGTGACTTCAAGGACTGTGAACGAAGTTTTCTCGTTACAGCCCGCTCAAAAGACACAAAGGA
 GACATACAGGTGTGAAACCATTCCAGTGTAAAACCTTGTGAGCGAAAGTTCTCCCGGTCCGACCACCTGAA
 GACCCACACCAGGACTCATAAGGTAACAAGTGAAGGCCCTTACAGTGTGCGTGGCCAAAGTTGTGAG
 AAAAAGTTTCCCGGTGAGTGAATAGTCCGCCATCACAAATGCATCAGAGAAACATGACCAAACTCC
 AGCTGGCGCTT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

>RC403467 representing NM_024426
 Red=Cloning site Green=Tags(s)

MQDPASTCVPEPASQHTLRSGPGCLQQPEQQVVRDPGGIWAJLGAEEASAERLQRRSRGASGSEPPQMG
 SDVVDLNLALLPAVPSLGGGGCALPVSGAAQWAPVLDFAAPPASAYGSLGGPAPPAPPPPPPPPHSFI
 KQEPSWGAEPHEEQCLSAFTVHFSGQFTGTAGACRYGPFPPPPSQASSGQARMFPNAPYLPSCLSQP
 AIRNQYSTVTFDGTSPSYGHTPSHAAQFPNHSFKHEDPMGQGSLSGEQQYSVPPPVYGHPTDSTGS
 QALLLRTPYSSDNLQMTSQLCMTWNQMLGATLKGVAAGSSSVKWTGQSNHSTGYESDHTTPILC
 GAQYRIHTHGVRGIQDVRVPGVAPTLVRSASETSEKRPFMCAYPGCNKRYFKLSHLQMSRKHTGEKP
 YQCDFKDCERRFSRSDPLKRHQRRTGKPFQCKTCQRKFSRSDHLKTHTRHTGKTSEKPFSCRWPSCQ
 KKFARSDELVRHHNMHRNMTKLQAL

SGPTRRRLEQKLI**SEEDLAANDILDYKDDDDKV**

Restriction Sites:

SgfI-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]