

Product datasheet for **MR225851**

Wt1 (NM_144783) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wt1 (NM_144783) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wt1
Synonyms:	D630046119Rik; Wt-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225851 representing NM_144783
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

CTGGACTTCTCTGTGCGCAGGAGCCGGCTTCCACGTGTGTCCCGAGCCGGCGTCTCAGCACACGCTCC
 GCCGGGAGCCCGGTGCGTCCAGCAGCCGAGCAACCTGGGGACCGAGGCCCCCGAGCGCCTGGGCCAA
 GTCACAGCGCCGAGAATCCGCAGGATCGCAGGAGCGGAGAACCCTCCGCATCCGAGCCGACCTCATGGGT
 TCCGACGTGCGGGACCTGAACGCGCTGCTGCCCGCTGTGTCTTCGCTGGCGCGCGCGCGCGGCTGCG
 GGCTCCCTGTGAGCGGCGCAGCGCAGTGGGCGCCGTGTTGGACTTCGCGCCTCCGGGCGCCTCGGCTTA
 CGGGTCGCTGGCGGTCCCGCGCTCCTCCGCTCCGCCCGCCCTCCGCCGCCACCCACTCCTTCATC
 AAACAGGAGCCAGCTGGGGCGGCGCCAGCCACAGGAGCAGTGCCTGAGCGCCTTCACCTTGCACT
 TCTCGGGCAGTTCACCGGTACAGCCGGGGCTGTGCTACGGACCTTCGGTCTCCCCGCCAGCCA
 GCGCTCCTCGGGCAGGCCAGGATGTTCCCAATGCGCCCTACCTGCCAGCTGCCTGGAGAGCCAGCCT
 ACCATCCGCAACCAAGGATACAGCACGGTCACTTTCGACGGGGCGCCAGCTATGGCCACACGCCCTCGC
 ATCACGGCGCGCAGTTCCTCAACATTCTTAAACACGAGGACCCATGGGCCAGCAGGGCTCGCTGGG
 CGAGCAGCAGTACTCCGTGCCACCTCCGGTGTATGGTGCCACACCCCTACTGACAGTTGCACAGGCAGC
 CAGGCCCTGCTCCTGAGGACGCCCTACAGCAGTGACAATTTATACCAAATGACCTCCAGCTTGAATGCA
 TGACCTGGAATCAGATGAACCTAGGAGCTACCTTAAAGGGAATGGCTGCTGGGAGCTCCAGCTCAGTGAA
 ATGGACAGAAGGGCAGAGCAACCACGGCACAGGGTATGAGAGTGAGAACCACAGGCCCCCATCCTCTGT
 GGTGCCAGTACAGAATACACCCACGGGTCTTCCGAGGATTACAGGATGTGCGGCGTGTATCTGGAG
 TGGCCCCAACTTTGTCGGTCAGCATCTGAAACCAGTGAGAAAGTCTTTTCATGTGTGCATACCCAGG
 CTGCAATAAGAGATATTTTAAGCTGTCCCACTACAGATGCATAGCCGGAAGCACACTGGTGAGAAACCA
 TACCAGTGTGACTTCAAGGACTGCGAGAGAAGTTTTCTCGCTCAGACCAGCTCAAAAGACCAAAAGGA
 GACACACAGGTGTGAAACCATTCCAGTGTAAACTTGTGACGAAAGTTTTCCCGGTCCGACCATCTGAA
 GACCCACACCAGGACTCATACAGGTAACAAGTAAAAGCCCTCAGCTGTGCGTGGCAGCAGTTGTGAG
 AAAAAGTTTGGCGCTCAGACGAATTGGTCCGCCATCACAAATGCATCAGAGAAACATGACCAAATCC
 AGCTGGCGCTT

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225851 representing NM_144783
 Red=Cloning site Green=Tags(s)

LDLFLLSQEPASTCVPEPASQHTLRREPQVQPEQPGDRGPRSAWAKSSAENPQDRRSGEPSASEPHLMG
 SDVRDLNALLPAVSSLGGGGGGLPVSGAAQWAPVLDFAAPPASAYGSLGGPAPPAPPPPPPPHPSFI
 KQEPSWGAEPHEEQCLSAFTLHFSGFTGTAGACRYGPFPPPPSQASSGQARMFPNAPYLPSCLSQP
 TIRNQYSTVTFDGAPSYGHTPSHAAQFPNHSFKHEDPMGQQGSLGEQQYSVPPPVYGCPTDSTGTS
 QALLLRTPYSSDNLQMTSQLECMWNQMLGATLKGMAAGSSSVKWTGQSNHGTGYESENHTAPILC
 GAQYRIHTHGVRGIQDVRVSGVAPTLVRSASETSEKRPFMCAYPGCNKRYFKLSHLQMSRKHTGKPK
 YQCDFKDCERRFSRSDQLKRHRHTGVKPFQCKTCQRKFSRSDHLKTHTRHTGKTSEKPFSCRWHSCQ
 KKFARSDELVRHHNMHRNMTKLQLAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1497_a01.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_144783

ORF Size: 1646 bp

OTI Disclaimer: 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.

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).

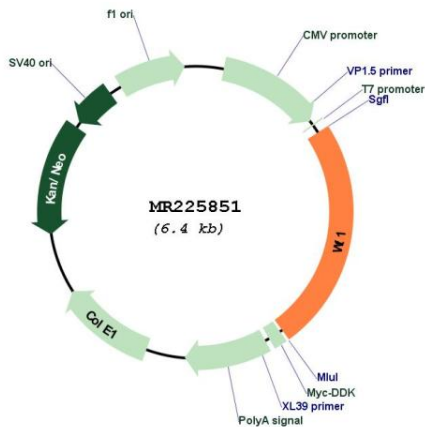
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_144783.2](#), [NP_659032.3](#)

RefSeq Size: 3092 bp
 RefSeq ORF: 1554 bp
 Locus ID: 22431
 Cytogenetics: 2 55.06 cM
 MW: 56.5 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 plays an essential role in the normal development of the urogenital system, and the orthologous human gene is mutated in a small subset of patients with Wilm's tumors. Alternative splicing has been noted for this gene, however, the full-length nature of these variants is not known. The mRNA for this gene has been shown to initiate translation from non-AUG (CUG) and AUG translation start sites, resulting in different isoforms. [provided by RefSeq, Apr 2013]

Product images:



Circular map for MR225851