

Product datasheet for **MG225851**

Wt1 (NM_144783) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Wt1 (NM_144783) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Wt1 |
| Synonyms: | D630046119Rik; Wt-1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MG225851 representing NM_144783
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

CTGGATCCGGTACCGAGGAGATCTGCCCGCGCATCGCCCTGGACTTCTCTGTGCGCAGGAGCCGGCTT
 CCACGTGTGTCCCGAGCCGGCGTCTCAGCACAGCTCCGCCGGAGCCGGGTGCGTCCAGCAGCCGGA
 GCAACCTGGGACCGAGGCCCGGAGCGCCTGGGCAAGTCCAGCGCCGAGAATCCGCAGGATCGCAGG
 AGCGGAGAACCGTCCGCATCCGAGCCGCACCTCATGGGTTCCGACGTGCGGGACCTGAACCGCTGCTGC
 CCGCTGTGTCTTCGCTGGGCGCGCGCGCGGCTGCGGGCTCCCTGTGAGCGGCGCAGCGCAGTGGGC
 GCCCGTGTGGACTTCGCGCCTCCGGGCGCCTCGGCTTACGGGTGCTGGGCGGTCCCGCGCTCTCC
 GCTCCGCCCGCCTCCGCCGCCACCCACTCTTCATCAAACAGGAGCCAGCTGGGGCGGCGCCGAGC
 CACACGAGGAGCAGTGCCTGAGCGCCTCACCTTGCCTTCTCGGCCAGTTCACCGGTACAGCCGGGGC
 CTGTGCTACGGACCCTTCGGTCTCCCGGCCAGCCAGCGTCTCGGCCAGCCAGGATGTTCCCC
 AATGCGCCCTACCTGCCAGCTGCTGGAGAGCCAGCCTACCATCCGCAACCAAGGATACAGCACGGTCA
 CTTTCGACGGGGCGCCAGCTATGGCCACACGCCCTCGCATCACGCGGCGAGTTCGCCAACCTTCCCTT
 CAAACACGAGGACCCATGGGCCAGCAGGGCTCGCTGGGCGAGCAGCAGTACTCCGTGCCACCTCCGGTG
 TATGGCTGCCACCCCTACTGACAGTTGCACAGGCAGCCAGGCCCTGCTCCTGAGGACGCCCTACAGCA
 GTGACAATTTATACAAATGACCTCCAGCTTGAATGCATGACCTGGAATCAGATGAACCTAGGAGCTAC
 CTTAAAGGAAATGGCTGCTGGGAGCTCCAGCTCAGTGAATGGACAGAAGGGCAGAGCAACCACGGCACA
 GGGTATGAGAGTGAGAACCACACGGCCCCATCCTCTGTGGTCCCAAGTACAGAATACACACCCACGGGG
 TCTCCGAGGCATTGAGGATGTGCGGCGTGTATCTGGAGTGGCCCCAAGTCTTGTCCGGTCAGCATCTGA
 AACCAAGTGAAGAACGTCCTTTCATGTGTGCATACCCAGGCTGCAATAAGAGATATTTAAAGCTGTCCAC
 TTACAGATGCATAGCCGGAAGCACACTGGTGAAGAACCATACCAGTGTGACTTCAAGGACTGCGAGAGAA
 GGTTTTCTCGCTCAGACCAGCTCAAAGACACCAAGGAGACACAGGTGTGAAACCTTCCAGTGTAA
 AACTTGTGACGAAAGTTTTCCCGTCCGACCATCTGAAGACCCACACCAGGACTCATAAGGTAACA
 AGTGAAAAGCCCTTACGCTGTGGTGGCACAGTTGTGAGAAAAGTTTGCAGCTCAGACGAATTGGTCC
 GCCATCACAACATGCATCAGAGAAACATGACCAAACCTCCAGCTGGCGCTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG225851 representing NM_144783
 Red=Cloning site Green=Tags(s)

LDPVPRRSAAAIALDFLLSQEPASTCVPEPASQHTLRREPQVQPEQPGDRGPRSAWAKSSAENPQDRR
 SGEPSASEPHLMGSDVRDLNALLPAVSSLGGGGGCGLPVSGAAQWAPVLDFAAPPASAYGSLGGPAPP
 APPPPPPPHSF IKQEPSWGAEPHEEQCLSAFTLHFSGQFTGTAGACRYGPFPPPPSQASSGQARMFP
 NAPYLPSCLESQPTIRNQYSTVTFDGAPSYGHTPSHAAQFPNHSFKHEDPMGQQGSLGEQQYSVPPP
 YGCHPTDSTGSQLLLRTPYSSDNLQMTSQLCMTWNQMNLGATLKGMAAGSSSVKWTGEGQSNHGT
 GYESENHTAPILCGAQYRIHTHGVRFGIQDVRVSGVAPTLVRSASETSEKRPFMCAYPGCNKRYFKLSH
 LQMHSRKHTEKPYQCDFKDCERRFSRSDQLKRHQRRHTGVKPFQCKTCQRKFSRSDHLKTHTRHTGKT
 SEKPFSCRWHSQKFFARSDDELVRHNMHQNMTKLQLAL

TRTRPLE – GFP Tag – V

Chromatograms:

https://cdn.origene.com/chromatograms/ja1688_c08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_144783

ORF Size: 1590 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).

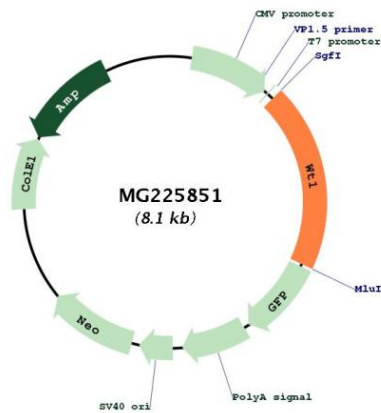
Reconstitution Method:

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

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 MG225851