

## Product datasheet for **RC230531**

### MASTL (NM\_001172304) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MASTL (NM_001172304) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MASTL
Synonyms:	GREATWALL; GW; GWL; MAST-L; THC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC230531 representing NM\_001172304  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATCCCACCGCGGAAGCAAGAAGGAGCCTGGAGGAGCGCGCGACTGAGGAGGGCGTGAATAGGA  
 TCGCAGTGCCAAAACCGCCCTCCATTGAGGAATTCAGCATAGTGAAGCCATTAGCCGGGGCGCCTTCGG  
 GAAAGTGTATCTGGGGCAGAAAGCGGCAAAATTGTATGCAGTAAAGTTGTTAAAAAGCAGACATGATC  
 AACAAAAATGACTCATCAGGTCCAAGCTGAGAGAGATGCACTGGCACTAAGCAAAAGCCATTTCATTG  
 TCCATTTGTATTACTGCTGAGTCTGCAAAACAATGTCTACTTGGTAATGGAATATCTTATTGGGGGAGA  
 TGTCAAGTCTCTCTACATATATATGGTATTTTGTGAAGAGATGGCTGTGAAATATATTTCTGAAGTA  
 GCACTGGCTCTAGACTACCTTCACAGACATGGAATCATCCACAGGGACTTGAACCGGACAATATGCTTA  
 TTTCTAATGAGGGTCATATTAAGTACGCGATTTTGGCCTTTCAAAGTTACTTTGAATAGAGATATTA  
 TATGATGGATATCCTTACAACCCATCAATGGCAAAACCTAGACAAGATTATTCAAGAACCCAGGACAA  
 GTGTTATCGCTTATCAGCTCGTTGGGATTTAACACACCAATTGCAGAAAAAATCAAGACCTGCAAAAC  
 TCCTTTACGCTGTCTGTCTGAAACATCACAGCTTTCTCAAGGACTCGTATGCCCTATGTCTGTAGATCA  
 AAAGGACACTACGCCCTTATTCTAGCAAATTAATAAATCATGTCTTGAACAGTTGCCTCCAACCCAGGA  
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 GTCAATCCACACCTTCATCCAGTGTGGAATCAGAATGCCACAGCAGTCCCAATGGGAAAAAGATTG  
 CCAGGAAAGTGATGAAGCATTGGGCCAACAAATGATGAGTTGGAATGCAGTTGAAAAGTTATGCGCAAAA  
 TCTGCAAAATGCCATTGAGACGAAAGTTTCAATAAAAAGGATCTGGAGTTAGCTCTTTCTCCCATTCATA  
 ACAGCAGTCCCTTCCCACCCTGGAGCTCTTGTGTAACCTTGCTAAAAATGCTTCTCTGGGGAATC  
 TTCTTGGGAAGCAGTAGAACTGGATGTAATAATAATAAATATGGACACTGACACAAGTCAGTTAGGTTTC  
 CATCAGTCAAATCAGTGGCTGTGGATTCTGGTGGATATCTGAAGAGCACCTTGGGAAAAGAAAGTTTAA  
 AAAGAAATTTTGAAGTTGGTTGACTCCAGTCTTGTAAAAAATTAACAGAATAAAAAAATTTGTGTAGA  
 GTATAAGCATAACGAAATGACAAATTTGTTATACAAAATCAAAATACAGGCTTAACAGTTGAAGTGCAGGAC  
 CTTAAGCTATCAGTGCACAAAAGTCAACAAAATGACTGTGCTAATAAGGAGAACATTGTCAATCTTTTA  
 CTGATAAACAACAACACCAGAAAAATACCTATACCAATGATAGCAAAAAACCTTATGTGTGAAGTCTGA  
 TGAAGACTGTGAAAAGAATAGTAAGAGGGACTACTTAAGTTCTAGTTTTCTATGTTCTGATGATGATAGA  
 GCTTCTAAAAATATTTCTATGAACTCTGATTCATCTTTTCTGGAATTTCTATAATGGAAGTCCATTAG  
 AAAGTCAGCCCTTAGATTAGATAGAAGCATCAAAGAATCCTCTTTTGAAGAATCAAATATTGAAGATCC  
 ACTTATTGTAACACCAGATTGCCAAGAAAAGACCTCACCAAAAGGTGTCGAGAACCCTGTGTACAAGAG  
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 AGAAGATCCTGTATGCCACATCAGACCCCAATCAGATCAAGTCGGGAACCCATACCGAACTCCGAAGA  
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 GCTGTTACTAGGCAGGGCCCATGATATCCCTTGGCCAGAAGGTGAAGAAAAGTTATCTGATAATGCCTCAA  
 AGTGCAGTAGAAATACTTTTAAACATTGATGATACAAAGAGAGCTGGAATGAAAAGAGCTAAAACGTCATC  
 CTCTCTCAGTGTGACTGGGAAAATCTGCAGCATCAGACTATGCCTTTATCCCCCAGCCAGATGA  
 TGAACAGATACCTCTATTTTGAAGCCAGGAATACTGCTCAGCACCTGACTGTATCTGGATTTAGTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC230531 representing NM\_001172304  
 Red=Cloning site Green=Tags(s)

MDPTAGSKKEPGGGAATEEGVNRIAVPKPPSIEEFSIVKPISRGAFGKVYLGQKGGKLYAVKVVKKADMI  
 NKNMTHQQAERDALALSKSPFIVHLYSLQSANNVYL VMEYLIGGDVKSLLHIYGYFDEEMAVKYISEV  
 ALALDYLHRHGI IHRDLKPDNMLISNEGHIKLTDFGLSKVTLNRDINMMDIL TTPSMAPRQDYSRTPGQ  
 VLSL ISSLGFNTPIAEKNQDPANILSACLSETSLSQGLVCPMSVDQKDTTPYSSKLLKSCLETVASNPG  
 MPVKCLTSNLLQSRKRLATSSASSQSHTFISSVESECHSSPKWEKDCQESDEALGPTMMSWNAVEKLCAK  
 SANAIETKGFNKKDLELALSPIHNSSALPTTGRSCVNLAKKCFSGEVSWEAVELDVNNINMDTDTSQLGF  
 HQSNQWAVDSGGI SEEHLGKRSLKRNFEVDSSPCKKIIQNKKTCVEYKHNEMTNCYTNQNTGLTVEVQD  
 LKLSVHKSQQNDCANKENIVNSFTDKQQTPEKLPIPMIAKNLMCELEDCENSKRDYLSLSSFLCSDDDR  
 ASKNISMNSDSSFPGISIMESPLESQPLSDRSIKESSFEESNIEDPLIVTPDCQEKTPKGVENPAVQE  
 SNQKMLGPPLEVLKTLASKRNAVAFRSFNHINASNNSEPSRMNMTSLDAMDISCAYSGSYPMAITPTQK  
 RRSCMPHQTPNQIKSGTPYRTPKSVRRGVAPVDDGRILGTPDYLAPELLLGRAHDIPWPEGEEKLSDNAQ  
 SAVEILLTIDDTKRAGMKELKRHPLFSDVDWENLQHQTMPFIPQPDEDTDTSYFEARNTAQHLTVSGFSL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001172304

**ORF Size:** 2520 bp

**OTI Disclaimer:** 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\\_001172304.3](#)

**RefSeq ORF:** 2523 bp

**Locus ID:** 84930

**UniProt ID:** [Q96GX5](#)

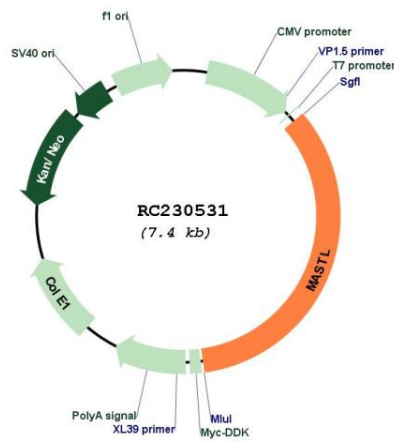
**Cytogenetics:** 10p12.1

**Protein Families:** Druggable Genome, Protein Kinase

**MW:** 93.3 kDa

**Gene Summary:** This gene encodes a microtubule-associated serine/threonine kinase. Mutations at this locus have been associated with autosomal dominant thrombocytopenia, also known as thrombocytopenia-2. Alternatively spliced transcript variants have been described for this locus. [provided by RefSeq, Feb 2010]

**Product images:**



Circular map for RC230531