

Product datasheet for **SC103147**

MASTL (NM_032844) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MASTL (NM_032844) Human Untagged Clone
Tag:	Tag Free
Symbol:	MASTL
Synonyms:	GREATWALL; GW; GWL; MAST-L; THC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_032844 edited
ATGGATCCACCCGCGGAAGCAAGAAGGAGCCTGGAGGAGCGCGGCGACTGAGGAGGGC
GTGAATAGGATCGCAGTGCCAAAACCGCCTCCATTGAGGAATTCAGCATAGTGAAGCCC
ATTAGCCGGGGCGCCTTCGGGAAAGTGTATCTGGGGCAGAAAGCGGCAAATTTGATGCA
GTAAAGTTGTTAAAAAGCAGACATGATCAACAAAAATGACTCATCAGGTCCAAGCT
GAGAGAGATGCACTGGCCTAAGCAAAAGCCATTTCATTGTCCATTTGTATTACTACTG
CAGTCTGCAAAACAATGTTACTTGGTAAATGGAATATCTTATTGGGGGAGATGTCAAGTCT
CTCCTACATATATGGTTATTTTGGATGAAGAGATGGCTGTGAAATATATTTCTGAAGTA
GCACTGGCTCTAGACTACCTTCACAGACATGGAATCATCCACAGGGACTTGAAACCGGAC
AATATGCTTATTTCTAATGAGGGTCATATTAACCTGACGGATTTTGGCCTTTCAAAGTT
ACTTTGAATAGAGATTAATATGATGGATATCCTTACAACACCATCAATGGCAAAACCT
AGACAAGATTATCAAGAACCCAGGACAAGTGTATCGCTTATCAGCTCGTTGGGATTT
AACACACCAATTGCAGAAAAAATCAAGACCCTGCAAACATCCTTTCAGCCTGTCTGTCT
GAAACATCACAGCTTCTCAAGGACTCGTATGCCCTATGTCTGTAGATCAAAAGGACACT
ACGCCCTTATTCTAGCAAATTAATAAATCATGTCTTGAACAGTTGCCTCCAACCCAGGA
ATGCCTGTGAAGTGTCTAATTCTAATTTACTCCAGTCTAGGAAAAGGCTGGCCACATCC
AGTGCCAGTAGTCAATCCACACCTTCATATCCAGTGTGGAATCAGAATGCCACAGCAGT
CCCAATGGGAAAAAGATTGCCAGGAAAGTGTGAAGCATTGGGCCCAACAATGATGAGT
TGGAAATGCAGTTGAAAAGTTATGCGCAAAATCTGCAAAATGCCATTGAGACGAAAGTTTC
AATAAAAAGGATCTGGAGTTAGCTCTTCTCCCATTCATAACAGCAGTGCCTTCCCACC
ACTGGACGCTCTGTGTAACCTTGCTAAAAATGCTTCTCTGGGGAAGTTTCTTGGGAA
GCAGTAGAACTGGATGTAATAATAATAATATGGACACTGACACAAGTCAGTTAGTTTC
CATCAGTCAAATCAGTGGGCTGTGGATTCTGGTGGGATATCTGAAGAGCACCTTGGGAAA
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AATACAGGCTTAACAGTTGAAGTGCAGGACCTTAAGCTATCAGTGCACAAAAGTCAACAA
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GCTTCTAAAAATATTTCTATGAACTCTGATTTCATTTTTCTGGAATTTCTATAATGGAA
AGTCCATTAGAAAAGTCAAGCCTTAGATTAGATAGAAGCATTAAAGAATCCTTTTTGAA
GAATCAAATATTGAAGATCCACTTATTGTAAACCCAGATTGCCAAGAAAAGACCTCACCA
AAAGGTGTGAGAACCTGCTGTACAAGAGAGTAACCAAAAAATGTTAGGTCTCCTTTG
GAGGTGCTGAAAACGTTAGCCTCTAAAAGAAATGCTGTTGCTTTTCGAAGTTTTAACAGT
CATATTAATGCATCCAATAAATCAGAACCATCCAGAATGAACATGACTTCTTTAGATGCA
ATGGATATTTCTGTGCTACAGTGGTTCATATCCCATGGCTATAACCCCTACTCAAAAA
AGAAGATCCTGTATGCCACATCAGACCCCAATCAGATCAAGTCGGGAATCCATACCGA
ACTCCGAAGAGTGTGAGAAGAGGGGTGGCCCCGTTGATGATGGGCGAATTTAGGAACC
CCAGACTACCTTGACCTGAGCTGTTACTAGGCAGGGCCCATGGTCTCGGTTAGACTGG
TGGGCACCTTGGAGTTTGCTTGTGTTGAATTTCTAACAGGAATTTCCCTTTCAATGATGAA
ACACCACAACAAGTATCCAGAATATTCTGAAAAGAGATATCCCTTGGCCAGAAGGTGAA
GAAAAGTTATCTGATAATGCTCAAAGTGCAGTAGAAATACTTTTAAACATTGATGATACA
AAGAGAGCTGGAATGAAAGAGCTAAAACGTCATCCTCTCTTCAGTGTGGACTGGGAA
AATCTGCAGCATCAGACTATGCCCTTTCATCCCCAGCCAGATGATGAAACAGATACCTCC
TATTTTGAAGCCAGGAATACTGCTCAGCACCTGACCGTATCTGGATTTAGTCTGTAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032844 unedited
 GGATTTTGGTATACGACTTACTATAGGGCGGCNCGCGATTCCGGCAGGAGGGAATGGCTG
 CTCGCGGAGGGGCAGTGTACGCGGGGCCGCTGTAGGCTGTCCAGCGATGGATCCCACCGC
 GGAAGCAAGAAGGAGCCTGGAGGAGGCGCGGCGACTGAGGAGGGCGTGAATAGGATCGC
 AGTGCCAAAACCGCCCTCCATTGAGGAATTCAGCATAGTGAAGCCATTAGCCGGGGCGC
 CTTGGGAAAAGTATCTGGGGCAGAAAGCGGCAAATGTATGCAGTAAAGTTGTAA
 AAAAGCAGACATGATCAACAAAAATATGACTCATCAGGTCCAAGCTGAGAGAGATGCAT
 GGCACTAAGCAAAAGCCATTTCATTGTCCATTTGTATTATTCAGTGCAGTCTGCAAAACA
 TGCTACTTGGTAATGGAATATCTTATTGGGGGAGATGTCAAGTCTCTCTACATATATA
 TGGTTATTTTGTGAAGAGATGGCTGTGAAATATATTTCTGAAGTAGCACTGGCTCTAGA
 CTACCTTCACAGACATGGAATCATCCACAGGGACTTGAAACCGGACAATATGCTTATTTT
 TAATGAGGTCATATTAAGTACGCGATTNTGGCCTTTCANAAGTTACTTTGAATAGAGA
 TATTAATATGATGGATATCCCTTACACACCANTCATGGCANAACCTAGACAAGATATTCA
 AGAACCCAGGACNAGTNTATCGCTTATCAGCCTCGTGGGATTTAACACACCNATTGCA
 GAAAAATCAAGACCCTGCANACATCCTTTTCAGCCTGTCTGTCTGAAACATCACAGCTT
 TCTCAGGGACTCGTATGCCCTATGTCTGTAGATCAAAGGGACACTACGCCTTTTATCTA
 GCAATACTANAATCATGTCTTGAANCAGNTGCCTNCANCCAGAATGCCTTGTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_032844 unedited
 CCTCATCTGNACCGCGNNGCCGCATCTAAGATCGAGTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGGGCCTCTAATTTTATTGAGGCTTCAGTTT
 CATAAAGGGCAATAAACAAAATAAATAGATGAAAAAGCTTTGAAAATTTATATACAGTT
 TTGAGGTTAAAAAAATTAAGTACTATATTCCTTTTCAGCCTTTTAACTTTGGGAAAGCTG
 TAACGTACATTAAGGCACATTGAACTAGGTTAAATAATGATCTTTCCCCCTTAAATCAA
 TCTAGTATTAAGGGGTATATAATTATGCAAGTTCATTTTATAACACGAGGCTAGACTAAA
 AGGAAAATTTTTGGGCTACAACTAAATCCAAATACGGTCAGGGGCTGAACAGTATTCCT
 GGCTTCAAAATAGGAGGGATCTGTTTCATTATCTGGCTGGGGGATGAAAGGCATAATCTG
 ATGCTGCAAAATTTCCAGCCACATCCCTGAAGAAAGGAGGACGTTTTAACTTTTTTCAT
 TCCAGCTCTTTTTGGATCATCAATGGGTAAGAATTTCTACTGCACTTTGAGCATTAAA
 AAAAAACTTTTTTTCCCTTTGGGCCAGGAAATCTCTTTTCAGAAAATTTCCCGAAATA
 CTTGGCGGGGTGTTCCACCTTTGAAAGGGGAATTCCTGTTGAAAAATTAACAGCAA
 ACTCCCAGGGCCCCCTATTACCCGAAGGACCATGGGCCCTGGCCTAAAAACACCTCAG
 GGGCAAGGTACCTCGGGTCTCTATAAATACCCCAACCTTAAAGGGGGGCCCCCTT
 TATATACACTCTTTGGAGATTGGGATTGGATTAACCCACCTGTTTCTTACTTGGGCTTT
 GAGGGGCCCAACAGACTCTTTTTTCGGAGAGGGGTTAACCCCGGGGAATGACACCGC

Restriction Sites:

NotI-NotI

ACCN:

NM_032844

Insert Size:

3160 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](#)

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_032844.1](#), [NP_116233.1](#)

RefSeq Size: 3084 bp

RefSeq ORF: 2637 bp

Locus ID: 84930

UniProt ID: [Q96GX5](#)

Cytogenetics: 10p12.1

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

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]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.