

## Product datasheet for **SC329169**

### MASTL (NM\_001172304) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MASTL (NM_001172304) Human Untagged Clone
Tag:	Tag Free
Symbol:	MASTL
Synonyms:	GREATWALL; GW; GWL; MAST-L; THC2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001172304, the custom clone sequence may differ by one or more nucleotides

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ATGGATCCCACCGCGGGAAGCAAGAAGGAGCCTGGAGGAGGCGCGGCGACTGAGGAGGGC
GTGAATAGGATCGCAGTGCCAAAACCGCCCTCCATTGAGGAATTCAGCATAGTGAAGCCC
ATTAGCCGGGGCGCCTTCGGGAAAGTGTATCTGGGGCAGAAAGGCGGCAAATTGTATGCA
GTAAAGGTTGTTAAAAAGCAGACATGATCAACAAAAATGACTCATCAGGTCCAAGCT
GAGAGAGATGCACTGGCACTAAGCAAAAAGCCATTCCATTGTCCATTGTATTATTTCACTG
CAGTCTGCAAAACAATGTCTACTTGGTAATGGAATATCTTATTGGGGGAGATGTCAAGTCT
CTCCTACATATATATGGTTATTTTGGATGAAGAGATGGCTGTGAAATATATTTCTGAAGTA
GCACTGGCTCTAGACTACCTTCACAGACATGGAATCATCCACAGGGACTTGAAACCGGAC
AATATGCTTATTTCTAATGAGGGTCATATTAACACTGACGGATTTTGGCCTTTCAAAGTT
ACTTTGAATAGAGATATTAATATGATGGATATCCTTACAACACCATCAATGGCAAAACCT
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ATGCCTGTGAAGTGTCTAACTTCTAATTTACTCCAGTCTAGGAAAAGGCTGGCCACATCC
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AAAGGTGTGAGAAACCTGCTGTACAAGAGAGTAACCAAAAAATGTTAGGTCTCCTTTTG
GAGGTGCTGAAAACGTTAGCCTCTAAAAGAAATGCTGTTGCTTTTCGAAGTTTTAACAGT
CATATTAATGCATCCAATAACTCAGAACCATCCAGAATGAACATGACTTCTTTAGATGCA
ATGGATATTTCTGTGCCTACAGTGGTTCATATCCCATGGCTATAACCCCTACTCAAAAA
AGAAGATCCTGTATGCCACATCAGACCCCAAATCAGATCAAGTCGGGAAGTCCATACCGA
ACTCCGAAGAGTGTGAGAAGAGGGGTGGCCCCGTTGATGATGGGCGAATTCTAGGAACC
CCAGACTACCTTGACCTGAGCTGTTACTAGGCAGGGCCCATGATATCCCTTGGCCAGAA
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GATACAAAAGAGAGCTGGAATGAAAGAGCTAAAACGTCATCCTCTCTTTCAGTGTGTGGAC
TGGGAAAAATCTGCAGCATCAGACTATGCCTTTTCATCCCCCAGCCAGATGATGAAACAGAT
ACCTCCTATTTTGAAGCCAGGAATACTGCTCAGCACCTGACTGTATCTGGATTTAGTCTG
TAG
    
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**Restriction Sites:** Please inquire  
**ACCN:** NM\_001172304

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001172304.1</a></u> , <u><a href="#">NP_001165775.1</a></u>
<b>RefSeq Size:</b>	3509 bp
<b>RefSeq ORF:</b>	2523 bp
<b>Locus ID:</b>	84930
<b>UniProt ID:</b>	<u><a href="#">Q96GX5</a></u>
<b>Cytogenetics:</b>	10p12.1
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) uses an alternate in-frame splice site and lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 3), 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.</p>