

Product datasheet for **RG230531**

MASTL (NM_001172304) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | MASTL (NM_001172304) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | MASTL |
| Synonyms: | GREATWALL; GW; GWL; MAST-L; THC2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG230531 representing NM_001172304
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCCCACCGCGGAAGCAAGAAGGAGCCTGGAGGAGCGCGCGACTGAGGAGGGCGTGAATAGGA
 TCGCAGTGCCAAAACCGCCCTCCATTGAGGAATTCAGCATAGTGAAGCCATTAGCCGGGGCGCCTTCGG
 GAAAGTGTATCTGGGGCAGAAAGCGGCAAAATTGTATGCAGTAAAGTTGTTAAAAAGCAGACATGATC
 AACAAAAATGACTCATCAGGTCCAAGCTGAGAGAGATGCACTGGCACTAAGCAAAAGCCATTTCATTG
 TCCATTTGTATTACTGCTGAGTCTGCAAAACAATGTCTACTTGGTAATGGAATATCTTATTGGGGGAGA
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 GCACTGGCTCTAGACTACCTTCACAGACATGGAATCATCCACAGGGACTTGAACCGGACAATATGCTTA
 TTTCTAATGAGGGTCATATTAAGTACGCGATTTTGGCCTTTCAAAGTTACTTTGAATAGAGATATTA
 TATGATGGATATCCTTACAACCCATCAATGGCAAAACCTAGACAAGATTATTCAAGAACCCAGGACAA
 GTGTTATCGCTTATCAGCTCGTTGGGATTTAACACACCAATTGCAGAAAAAATCAAGACCTGCAAAACA
 TCCTTTACGCTGTCTGTCTGAAACATCACAGCTTTCTCAAGGACTCGTATGCCCTATGTCTGTAGATCA
 AAAGGACACTACGCCCTTATTCTAGCAAATTAATAAAATCATGTCTTGAACAGTTGCCTCCAACCCAGGA
 ATGCCCTGTGAAGTGTCTAACTTCTAATTTACTCCAGTCTAGGAAAAGGCTGGCCACATCCAGTGCCAGTA
 GTCAATCCCACACCTTCATCCAGTGTGGAATCAGAATGCCACAGCAGTCCCAATGGGAAAAAGATTG
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 ACAGCAGTCCCTTCCCACCCTGGAGCTCTTGTGTAACCTTGCTAAAAATGCTTCTCTGGGGAATC
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 TGAAGACTGTGAAAAGAATAGTAAGAGGGACTACTTAAGTTCTAGTTTTCTATGTTCTGATGATGATAGA
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 AAAGTCAGCCCTTAGATTCAGATAGAAGCATCAAAGAATCCTCTTTTGAAGAATCAAATATTGAAGATCC
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 AGTAACCAAAAAATGTTAGGTCCTCCTTTGGAGGTGCTGAAAACGTTAGCCTCTAAAAGAAATGCTGTTG
 CTTTTCGAAGTTTTAACAGTCATATTAATGCATCCAATAACTCAGAACCATCCAGAATGAACATGACTTC
 TTTAGATGCAATGGATATTTCTGTGCTACAGTGGTTTCATATCCCATGGCTATAACCCCTACTCAAAAA
 AGAAGATCCTGTATGCCACATCAGACCCCAATCAGATCAAGTCGGGAACCCATACCGAACTCCGAAGA
 GTGTGAGAAGAGGGGTGGCCCCGTTGATGATGGGCGAATCTAGGAACCCAGACTACCTTGCACCTGA
 GCTGTTACTAGGCAGGGCCCATGATATCCCTTGGCCAGAAGGTGAAGAAAAGTTATCTGATAATGCCTCAA
 AGTGCAGTAGAAATACTTTTAAACATTGATGATACAAAGAGAGCTGGAATGAAAAGAGCTAAAACGTCATC
 CTCTCTCAGTGTGACTGGGAAAATCTGCAGCATCAGACTATGCCTTTATCCCCAGCCAGATGA
 TGAACAGATACCTCTATTTTGAAGCCAGGAATACTGCTCAGCACCTGACTGTATCTGGATTTAGTCTG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG230531 representing NM_001172304
 Red=Cloning site Green=Tags(s)

MDPTAGSKKEPGGGAATEEGVNRIAVPKPPSIEEFSIVKPISRGAFGKVYLGQKGGKLYAVKVVKKADMI
 NKNMTHQVQAERDALALSKSPFIVHLYSLQSANNVYL VMEYLIGGDVKSLLHIYGYFDEEMAVKYISEV
 ALALDYLHRHGI IHRDLKPDNMLISNEGHIKLTDFGLSKVTLNRDINMMDIL TTPSMAPRQDYSRTPGQ
 VLSL ISSLGFNTPIAEKNQDPANILSACLSETSLSQGLVCPMSVDQKDTTPYSSKLLKSCLETVASNPG
 MPVKCLTSNLLQSRKRLATSSASSQSHTFISSVESECHSSPKWEKDCQESDEALGPTMMSWNAVEKLC
 SANAIETKGFNKKDLELALSPIHNSSALPTTGRSCVNLAKKCFSGEVSWEAVELDVNNINMDTDTSQLGF
 HQSNQWAVDSGGI SEEHLGKRSLKRNFEVDSSPCKKIIQNKKTCVEYKHNEMTNCYTNQNTGLTVEVQD
 LKLSVHKSQQNDCANKENIVNSFTDKQQTPEKLP IPMIAKNLMCELEDCENSKRDYLS SFLCSDDDR
 ASKNISMNSDSSFPGISIMESPLESQPLSDRSIKESSFEESNIEDPLIVTPDCQEKTPKGVENPAVQE
 SNQKMLGPPLEVLKTLASKRNAVAFRSFNHINASNNSEPSRMNMTSLDAMDISCAYSGSYPMAITPTQK
 RRSCMPHQTPNQIKSGTPYRTPKSVRRGVAPVDDGRILGTPDYLAPELLLGRAHDIPWPEGEEKLSDNAQ
 SAVEILLTIDDTKRAGMKELKRHPLFSDVDWENLQHQTMPFIPQPDEDTDTSYFEARNTAQHLTVSGFSL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

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 Size: 3509 bp

RefSeq ORF: 2523 bp

Locus ID: 84930

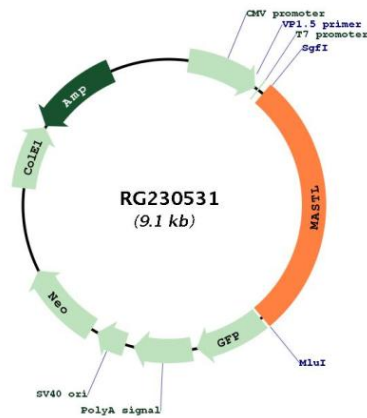
UniProt ID: [Q96GX5](#)

Cytogenetics: 10p12.1

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]

Product images:



Circular map for RG230531