

Product datasheet for **SC323438**

MAST3 (NM_015016) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | MAST3 (NM_015016) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | MAST3 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_015016, the custom clone sequence may differ by one or more nucleotides |

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ATGGACGAGTCGAGCCTCCTGCGGCGCCGCGGGCTCCAGAAGGAGCTGAGCCTGCCACGCCGAGGACGTG
GCTGCCGACGGGAACCGCAAGAGCTTGGTGGTAGGAACGCCCTCCCGACCCTCTCCCGGCCCTGTG
GCCATTGTCGGTCCCAACGGCAGGCAGCAGCCCTTGGATAGTCCTCGGAATTTCTCGGCTGCCTTGCC
CTAAATTTCCCTTTGCCCGGAGGGCAGACGGCAGAAGATGGTCCCTCGCGTCTCTCCCATCTTCCGGCT
ATGGAACCAACACACCAGCTCCACCCTCTCGTCAAGCTCATCTCCCGGAACGTCTCCACCAGCTTCC
GAGGAAGCGCGCCGGTCACCCCGCTCCGACCCCGCTCTCGCAGTCTCAGCCCGGCCGTGCAACGGGGA
CCTTCGACAATGAGATTGTCATGATGAATCACGTGTACCGGAGAGGTTCCCAAGGCCACAGCACAGAT
GGAGGGCCGTCTGCAGGAGTTCTGACGGCCTACGCGCCCGCGCCCGGCTGGCGTGGCTGATGGCGTC
TTGGGCTTCATCCACCACAGATCGTCGAGCTGGCCCGAGACTGCTTGGCCAAGTCTGGCGAGAACCCTG
TCACCTCCCGCTACTTCTAGAGATGCAGGAGAAGCTGGAGCGGCTTCTGCAGGATGCCATGAGCGTTC
GGACAGTGAGGAGGTGAGCTTTCATCGTCCAGCTTGTCCGAAACTGCTGATCATCATCTCACGGCCAGT
CGGCTGCTGGAGTGTCTGGAGTTTACCCTGAGGAATTTACCACCTGCTGGAGGCGGCTGAGGGCCATG
CGCGGGAGGGCCAAGGCATTAAGACTGACCTTCCACAGTACATCATTGGGACGCTGGGCTGGCCAAGGA
CCCCCTGGAGGAGATGGTGCCACTGAGTCACCTCGAAGAAGAACAGCCCCAGCACCTGAGTCCCAGAG
AGCCGCGCCCTGGTCCGCCAGTCACGGAGGAAGCCATGCGAAAGCGACTTTGAGACCATCAAACCTATTA
GCAACGGAGCCTATGGGGCCGTCTACCTGGTGGCGCACCGTGACACACGGCAGCGCTTGGCCATCAAGAA
GATCAACAACAGAACTTGATCCTGCGTAACCAGATCCAGCAGGTCTTTGTGGAGCGTGACATTCTCACC
TTTGCCGAGAACCCTTTGTGGTCAGCATGTTCTGCTCCTTTGAGACCCGGCGCCACCTATGATGGTCA
TGGAAACGTGGAAGGCGGCGACTGCGCCACGCTCCTGAAGAACATGGGCCCCTGCCCCTGGACATGGC
CCGCTGTACTTCGCGGAGACGGTGTGGCGCTGGAGTACCTGCATAACTATGGCATCGTGCACCGTGAC
CTCAAACCAGACAATCTGCTCATCACCTCGCTTGGCCACATCAAGCTCACGGACTTGGCCTGTCCAAGA
TCGGCCTCATGAGCATGGCCACCAACCTATGAGGGCCACATCGAGAAGGACGCCCGAGAGTTTCATCGA
CAAGCAGGTGTGGGACGCGGAGTACATAGCCCCGAGGTGATCTTCCGACGGCTATGGGAAGCCA
GTGGACTGGTGGCCATGGGCGTCCTCTATGAGTTTCTGGTGGGCTGCGTGCCTTTCTTTGGAGATA
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CCCCGAGGAAGCTCTTCGGTCAGGTGGTCAGCGATGAGATCATGTGGCCAGAGGGAGATGAGGCCCTTCC
AGCAGACGCCAGGACCTCATCACCAGGTTGCTCCGGCAGAGCCCGCTGGACCGTCTGGGCACTGGTGGC
ACCCACGAAGTGAAGCAGCACCCCTTTTCTGGCCCTGGACTGGGACAGGGCTTCTCCGACACAAAGCCG
AGTTTCGTGCCAGCTCGAAGCTGAGGATGATACCAGCTACTTTGACACACGTTCCGAACGTTACCGCCA
TCTGGGCTCCGAGGACGACGAGACCAATGATGAAGAATCGTCCACAGAGATCCCCAGTTCTCTCTCTGC
TCCCACCGGTTACGAAGTCTACAGCAGCTCTGAGTTCTGGCCGTCAGCCCACTCTACCTCTCGTGAG
AAAGGAGCTTCAGTGAAGACCGGGAGGGGTGGGAGCGCAGCGAAGTGACTATGGCCCGGGTGGAG
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CGGGTCCAGCCATCTCTCTGAATACCATCAGCCTGGACACAATGCCAAGTTTGCCTTCTCATCAG
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GCCCGCTACGGAGCAATAGCATCGCGCCGACACTCCACACCAAGGCCCTGGATGCCGGCCGGGGCC
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TTCCGCGAGCCGAGACCCGTCGCCCGTGTGGCAGCCTGGCGCCCAATCGTTATCCACAGCTCTGG
CAAGAAGTACGGCTTACGCTGCGGGCGATCCGCGTCTACATGGGTGATAGCGACGCTTACACTGTGCAC
CACGTCGCTGGAGTGTGGAGGACGGAAGCCCGCCAGGAGGCGGGCCTGCGGGCTGGGACCTCATCA
CCCACATCAACGGGGAGTCAAGTGTGGGCTGGTGCACATGGACGTCGTGGAGTGTCTGTAAGAGCGG
CAACAAGATATCCCTGCGGACCACAGCCCTGGAGAACCTCCATCAAGTGGGCCCCCGCCGAAGAAT
GTGGCCAAAGGCCGATGGCAGCGAGGAGCAAGAGGAGCCGTCGGCGGGAGACCCAGGATCGGCGGAAGT
CACTTTTCAAGAAGATCTCCAAGCAGACTCCGTGCTGCACACAGCCGACGTTCTCTCCGGACTCCA
CCACTGCTCATCCAGTGAAGCCTCCCGGCTCGCCACCCACAGCCTCTCCCCAGCCCACTT
CCCTGCGAAGCCAGCCCTGATGTCCAGCAGATACCACTGCATCCCCACCCAGCGCATCCCCGAGCT
CCAGCAGCCCGCTCCCGAGTGTGCTGGCCACACCCGCCAGCTCCCTGCACGGCCTGGTGCCAA
GCTTGGGCCACCCCGCCCAAGACTGGCCGCGCAAGTCCACCAGCAGCATCCCGCCTCCCGCTGGCC
TGCCCGCCATCTCCGCGCCCCACCCGCTCGCCCTCGCCCTGCCCGGACCCCGCCGACCTGCC
GATCCCGCGGCTGCGCCGGGGCCAGTCAAGTGGGCACAGGGGAGCGGCTGGATGGGGAGGC
GGGGCGGCGCACTCGTGGCCAGAGGCCGAGTCTGGTTCATGCGCGGCTGCACCTGTCCGAGCGCCGA
GACTCCTTCAAGAAGCAGGAGCCGTGCAGGAGTTAGCTTCGATGAGCCGAGGAGGAGCCACTGGGC
TGCCACCTCAGTGCCACAGATCGCGTGGAGGGCGAGGAAGCCGTGCCAGTAGCTCTGGGCCACCGG
AAGAGACTGA
    
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5' Read Nucleotide Sequence:

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>OriGene 5' read for mutant NM_015016 unedited
CCCGCGTCTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCATTTAGGTG
ACACTATAGAATAACAAGTACTTGTCTTTTTGCAGCGGCCGGAATTCGGCACGAGGACGAGTCGAGCC
TCCTGCGGCGCCCGGGGCCAGAAGGAGCTGAGCCTGCCACGCCGAGGACGTGGCTGCCGACGCGGAA
CCGCAAGAGCTTGGTGGTAGGAACGCCCTCCCGACCCTCTCCCGCCCCGTGCGCCATTGTCGGTCCCA
ACGGCAGGCAGCAGCCCCCTTGATAGTCTCGGAATTTCTCGGGCTGCCTCTGCCTAAATTTCCCTT
TGCCCGGAGGGCAGACGGCAGAAGATGGGTCCCTCGCGTCTCTCCAATCTTCCGGCTATGGACCCAACA
CACCCAGCTTCCACCTTCTCGTCAGGCTCATCTCCCGGACCGTCTCCACCGCCTTCCCTTCCGGCCA
ACCCGGACAAGCTGCACTTCTGTCCAAGCACTTCGGCAGTTTCAAGAAATGTGCTTAATAAAAAAGGCC
GCCCGTCAACCCCGCTCGAAACCGCCTCGCAGATTCACAGCCCGGGCCGGGAAAGGGGAGACTCT
GAGAATGAGGATAGTCTAGAAGAAAATCCTGTATCCGGGAAGAGGTTCCCAGGCCACACACATAGAG
AGGCCCTCGGAGATTTGAGGGCTCTACGCCCGGGCCCGGTGTGCTGTTGCATGTGGCCCTCGGGTCT
CCACACATATCTAGATGTGCCAGAATGTTGTGCAATTTGGGAGAAACCTGACTCCGCGATTCTCTAAA
AGCCGGGAAACTGAGCGGCTTTAGAGTCCCCGAAGACTCGACGAGGAGATCTAATCTGCACATTGGAA
GTGATATATACAGAACATGGGTAGAAGTCTCGAATGAATCGCGAGACTATGCTCTAGACGCACGA
    
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| Kinase Domain Sequence: | >SC323438 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation TATCAACTCATTAGCACGGAGCCTATGGGGCCGTCTACCTGGTGCGGCACCGTGACACACGGCAGCGCTT TGCCATCATGAAGATCAACAAACAGAACTTGATCCTGCGTAACAGATCCAGCAGGTCTTTGTGGAGCGT GACATTCTCACCTTTGCCGAGAACCCTTTGTGGTCAGCATGTTCTGCTCCTTTGAGACCCGGCGCCACC TATGTATGGTCATGGAATACGTGGAAGGCGGCGACTGCGCCACGC |
| Restriction Sites: | Please inquire |
| ACCN: | NM_015016 |
| Insert Size: | 6000 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 may be unstable or toxic at high copy number in common E. coli strain. We recommend using a lower copy number E. coli strain, such as CopyCutter strain (http://www.epibio.com/item.asp?ID=435) for transformation and plasmid preparation. Please be aware that the DNA yield could be low. Additional aliquots of this clone can be ordered from OriGene. |
| 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: | <ol style="list-style-type: none"> 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_015016.1 , NP_055831.1 |
| RefSeq Size: | 5893 bp |
| RefSeq ORF: | 3930 bp |
| Locus ID: | 23031 |

UniProt ID: [O60307](#)
Cytogenetics: 19p13.11
Protein Families: Druggable Genome, Protein Kinase