OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC316458

MAST4 (NM_015183) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: MAST4 (NM_015183) Human Untagged Clone

Tag: Tag Free

Symbol: MAST4

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_015183, the custom clone sequence may differ by one or more nucleotides

ATGGATGAGTCCAGCATTCTAAGACGAAGAGGGCTCCAGAAGGAGCTGAGTCTCCCCAGA
AGAGGAAGTTTGATAGATTCCCAGAAGTGGAATTGCTTGGTCAAACGTTGCCGAACAAGC
AACCGGAAAAGCTTAATAGGCAATGGGCAGTCACCAGCATTGCCTCGACCACACTCACCT
CTCTCTGCTCATGCAGGAAATAGCCCTCAAGATAGTCCAAGAAATTTCTCCCCCAGTGCC
TCAGCCCATTTTTCATTTGCACGGAGGACTGATGGACGCCGCTGGTCGTTGGCTTCTCTC
CCTTCCTCTGGCTATGGGACAAACACACCCAGCTCTACGGTCTCTTCATCCTGTTCCTCC
CAGGAGAAGTTGCATCAGTTACCATACCAACCAACACCAGACGAGTTACACTTCTTATCA
AAACATTTCTGTACCACCGAAAGCATCGCCACTGAGAACAGATGCAGGAACACGCCGATG
CGCCCCCGTTCCCGAAGTCTGAGCCCTGGACGTTCTCCCGCCTGCTGTGACCATGAAATA
ATTATGATGAACCATGTCTACAAAGAAAGGTTCCCAAAGGCTACAGCTCAGATGGAAGAA
CGTCTAAAGGAAATTATCACCAGCTACTCTCCTGACAACGTTCTACCCTTAGCAGATGGA
GTGCTTAGTTTCACTCACCACCAGATTATTGAACTGGCTCGAGATTGCTTGGATAAATCC
CACCAGGGCCTCATCACCTCACGATACTTCCTTGAATTACAGCACAAATTAGATAAGTTG
CTACAGGAGGCTCATGATCGTTCAGAAAGTGGAGAATTGGCATTTATTAAACAACTAGTT
CGAAAGATCCTAATTGTTATTGCCCGCCCTGCTCGGTTATTAGAGTGCCTGGAATTTGAT
CCGGAAGAATTTTACTACCTATTGGAAGCAGCAGAAGGCCATGCCAAAGAAGGACAGGGT
ATTAAAACCGACATTCCCAGGTACATCATTAGCCAACTGGGACTCAATAAGGATCCCTTG
GAAGAAATGGCTCATTTGGGAAACTACGATAGTGGGACAGCAGAAACACCAGAAACAGAT
GAATCAGTGAGTAGCTCTAATGCCTCCCTGAAACTTCGAAGGAAACCTCGGGAAAGTGAT
TTTGAAACGATTAAATTGATTAGCAATGGAGCCTATGGGGCAGTCTACTTTGTTCGGCAT
AAAGAATCCCGGCAGAGGTTTGCCATGAAGAAGATTAATAAACAGAACCTCATCCTTCGA
AACCAGATCCAGCAGGCCTTTGTGGAGCGGGATATCCTGACTTTTGCAGAAAACCCCTTT
GTTGTCAGCATGTATTGCTCCTTTGAAACAAGGCGCCACTTGTGCATGGTCATGGAATAT
GTGGAAGGGGGAGACTGTGCTACTTTAATGAAAAACATGGGTCCTCTCCCTGTTGATATG
GCCAGAATGTACTTTGCTGAGACGGTCTTGGCCTTGGAATATTTACATAATTATGGAATT
GTACACAGGGATTTGAAACCAGACAACTTGTTGGTTACCTCCATGGGGCACATAAAGCTG
ACAGATTTTGGATTATCTAAGGTGGGACTAATGAGCATGACTACCAACCTTTACGAGGGT
CATATTGAGAAGGATGCTAGAGAGTTCCTGGATAAACAGGTCTGTGGCACACCTGAATAC
ATTGCACCAGAAGTGATTCTGAGGCAGGGTTATGGAAAGCCGGTGGACTGGTGGGCCATG
GGGATTATCCTCTATGAATTTCTGGTTGGATGCGTGCCATTCTTTGGGGATACTCCAGAG
GAGCTATTTGGACAAGTCATCAGTGATGAGATCAACTGGCCTGAGAAGGATGAGGCACCC

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CCACCTGATGCCCAGGATCTGATTACCTTACTCCTCAGGCAGAATCCCCTGGAGAGGCTG
GGAACAGGTGGTGCATATGAAGTCAAACAGCATCGATTCTTCCGTTCTTTAGACTGGAAC
AGTTTGCTGAGACAGAAGGCAGAATTTATTCCCCAACTGGAATCTGAGGATGACACAAGT
TATTTTGATACTCGGTCTGAGAAGTATCATCATATGGAAACGGAGGAAGAAGATGACACA
AATGATGAAGACTTTAATGTGGAAATAAGGCAGTTTTCTTCATGTTCACACAGGTTTTCA
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GTGGACAAAACCAAAAGCACCACCTTGCCATCCACAGAAACACTGAGCTGGAGTTCAGAA
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CGATTAGAAAGCACAGAAAAAAAGAAAATCTCGGGGAAAGTCACAAAGTCCCTCTCTGCC
AGTGCTCTTTCCCTCATGATCCCAGGAGATATGTTTGCTGTTTCCCCTCTGGGAAGTCCA
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GATTCCTCAGCAGCTTCTGCCAGTCCACATCAGCCGATTGTGATCCACAGTTCGGGGAAG
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GTGCACCATATCGTCTGGAATGTAGAAGAAGGAAGTCCGGCATGCCAGGCAGGACTGAAG
GCTGGAGATCTTATCACTCACATCAATGGAGAACCAGTGCATGGACTTGTCCACACAGAA
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ACCTCCCCGCAGCGGTCACCATCCCCTCTTCTGGGACACTCACTGGGCAATTCCAAGATC
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CCCAAGAGTGCGGAGCCCCCCAGGTCCCCGCTGCTCAAGCGCGTGCAGTCCGAGGAGAAG
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GATGAGAACGTGTGCGACGTGCCGCCGCTCAGCCGCGCCCGGCCAGTGGAGCAAGGCTGC
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CAGGAGCCCCCGCCGGCTTCTGAGAGCCGAGCTTTTGTCAGCAGCACCCATGCAGCTCAG
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AAGAACGATACCACCAGTGCAAGAGAGCTTTCTCCTTCCAGCTTAAAGATGAATAAATCC
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TCCCTGCCTGACCCAGAGTTCAAGAGGGACAGGAAAGGTCCCCATCCTACTGCCAGGAGC
CCTGGAACAGTCATGGAAAGCAATCCCCAACAGAGAGAGGGCAGCTCCCCTAAACACCAA
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GCTGACACATGCAGAGAGCCCTCCATGGAACTGTGCTTTCCAGAAACTGCGAAAACCAGT
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CAGGCCATGGAGAAAGCATGGGCGCCGGGTGGGAAAACGAACCACAAAGATGGCCCAGGT
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CGGTCTCTGCAGCCACCTGGAATTGAGAGTGAGAAGAGTGAAAAGCTCTCCAGTTTCCCA
TCTTTGCAGAAAGATGGTGCCAAGGAACCTGAAAGGAAGGAGCAGCCTCTACAAAGGCAT
CCCAGCAGCATCCCTCCGCCCCCTCTGACGGCCAAAGACCTGTCCAGCCCGGCTGCCAGG
CAGCATTGCAGTTCCCCAAGCCACGCTTCTGGCAGAGAGCCGGGGGCCAAGCCCAGCACT
GCAGAGCCCAGCTCGAGCCCCCAGGACCCTCCCAAGCCTGTTGCTGCGCACAGTGAAAGC
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CGGTCCCTCTCCTCTCAGAAACCAAGTGTCGGGGCCACAAAGGGCAAAGAGCCTGCCACT
CAGTCCCTCGGTGGCTCTAGCAGAGAGGGGAAGGGCCACAGTAAGAGTGGGCCGGATGTG
TTTCCTGCTACCCCAGGCTCCCAGAACAAAGCCAGCGATGGGATTGGCCAGGGAGAAGGT
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CGATCCACGGCCCTCCCGGAAAAGTCTCTGAGCTGCTCCTCCAGCTTCCCTGAAACCAGG
GCCGGAGTTAGAGAGGCCTCTGCAGCCAGCAGCGACACCTCTTCTGCCAAGGCCGCCGGG
GGCATGCTGGAGCTTCCAGCCCCCAGCAACAGGGACCATAGGAAGGCTCAGCCTGCCGGG
GAGGGCCGAACCCACATGACAAAGAGTGACTCCCTGCCCTCCTTCCGGGTCTCCACCCTG
CCTCTGGAGTCACACCACCCCGACCCAAACACCATGGGCGGGGCCAGCCACCGGGACAGG
GCTCTCTCGGTGACTGCCACCGTAGGGGAAACCAAAGGGAAGGACCCTGCCCCAGCCCAG
CCTCCCCCAGCTAGGAAACAGAACGTGGGCAGAGACGTGACCAAGCCATCCCCAGCCCCA
AACACTGACCGCCCCATCTCTCTTTCTAATGAGAAGGACTTTGTGGTACGGCAGAGGCGG
GGGAAAGAGAGTTTGCGTAGCAGCCCTCACAAAAAGGCCTTG

Restriction Sites: Please inquire

ACCN: NM_015183

OTI Disclaimer: 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).

OTI Annotation: 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.

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_015183.1, NP_055998.1
RefSeq Size:	7586 bp
RefSeq ORF:	7305 bp
Locus ID:	375449
UniProt ID:	O15021
Cytogenetics:	5q12.3
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	This gene encodes a member of the microtubule-associated serine/threonine protein kinases. The proteins in this family contain a domain that gives the kinase the ability to determine its own scaffold to control the effects of their kinase activities. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2014] Transcript Variant: This variant (1) represents use of an alternate promoter and 5' UTR, uses a downstream start codon, and includes an alternate in-frame exon in the 5' coding region, compared to variant 3. The resulting isoform (a) has a shorter N-terminus and includes an additional segment near the N-terminus, compared to isoform c. 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.