

Product datasheet for **SC338140**

MAST4 (NM_001290227) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAST4 (NM_001290227) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAST4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001290227, the custom clone sequence may differ by one or more nucleotides

```
ATGGATATGTCTGACCCCAATTTTTGGACTGTGCTCTCAAACCTTACTTTGCCTCATTTGAGGAGTGGGA
ACAGGCTTCGGCGAACACAAAGTTGCCGAACAAGCAACCGGAAAAGCTTAATAGGCAATGGGCAGTCACC
AGCATTGCCTCGACCACACTCACCTCTCTGCTCATGCAGGAAATAGCCCTCAAGATAGTCCAAGAAAT
TTCTCCCCAGTGCCCTCAGCCCATTTTTCATTTGCACGGAGGACTGATGGACGCCGCTGGTCTGGCTT
CTCTCCCTTCTCTGGCTATGGGACAAAACACCCAGCTCTACGGTCTCTTCATCCTGTTCTCCAGGA
GAAGTTGCATCAGTTACCATACCAACCAACACCAGACGAGTTACACTTCTATCAAAACATTTCTGTACC
ACCGAAAGCATCGCCACTGAGAACAGATGCAGGAACACGCGGATGCGCCCCGTTCCCGAAGTCTGAGCC
CTGGACGTTCTCCCGCTGCTGTGACCATGAAATAATTATGATGAACCATGTCTACAAAGAAAGGTTCCC
AAAGGCTACAGCTCAGATGGAAGAAGCTCTAAAGGAAATTATCACCAGCTACTCTCTGACAACGTTCTA
CCCTTAGCAGATGGAGTGCTTAGTTTCACTCACCACCAGATTATTGAACTGGCTCGAGATTGCTTGATA
AATCCCACCAGGGCCTCATCACCTCAGTACTTCTTGAATTACAGCACAAATTAGATAAGTTGCTACA
GGAGGCTCATGATCGTTCAGAAAGTGGAGAATTGGCATTATTAAACAACAGTTCGAAAGATCCTAATT
GTTATTGCCCGCCCTGCTCGGTTATTAGAGTGCCTGGAATTTGATCCGGAAGAATTTACTACCTATTGG
AAGCAGCAGAAGCCATGCCAAAGAAGGACAGGGTATTAACCCGACATTCACAGGTACATCATTAGCCA
ACTGGGACTCAATAAGGATCCCTTGAAGAAATGGCTCATTTGGGAAACTACGATAGTGGGACAGCAGAA
ACACCAGAAACAGATGAATCAGTGAGTAGCTCTAATGCCTCCCTGAAACTTCGAAGGAAACCTCGGGAAA
GTGATTTTGAAACGATTAATGATTAGCAATGGAGCCTATGGGGCAGTCTACTTTGTTCCGCATAAAGA
ATCCCAGCAGAGGTTTGGCCATGAAGAAGATTAATAAACAGAACCTCATCCTTCGAAACCAGATCCAGCAG
GCCTTTGTGGAGCGGGATATCCTGACTTTTGCAGAAAACCCCTTTGTTGTGAGCATGATTGCTCCTTTG
AAACAAGGCGCCACTTGTGCATGGTATGGAATATGTGGAAGGGGGAGACTGTGCTACTTTAATGAAAAA
CATGGGTCCTCTCCCTGTTGATATGGCCAGAATGACTTTGCTGAGACGGTCTTGGCCTTGAATATTTA
CATAATTATGGAATTGTACACAGGGATTTGAAACCAGACAACCTTGTGGTTACCTCCATGGGGCACATAA
AGCTGACAGATTTTGGATTATCTAAGGTGGGACTAATGAGCATGACTACCAACCTTTACGAGGGTCATAT
TGAGAAGGATGCTAGAGAGTTCCTGGATAAACAGGTCTGTGGCACACCTGAATACATTGCCACGAAAGTG
ATTCTGAGGCAGGGTTATGGAAGCCGGTGGACTGGTGGCCATGGGGATTATCCTCTATGAATTTCTGG
```



[View online >](#)

TTGGATGCGTGCCATTCTTTGGGGATACTCCAGAGGAGCTATTTGGACAAGTCATCAGTGATGAGATCAA
 CTGGCCTGAGAAGGATGAGGCACCCCACTGATGCCAGGATCTGATTACCTTACTCCTCAGGCAGAAT
 CCCCTGGAGAGGCTGGGAACAGGTGGTGCATATGAAGTCAAACAGCATCGATTCTTCCGTTCTTTAGACT
 GGAACAGTTTGTCTGAGACAGAAGGCAGAATTTATCCCAACTGGAATCTGAGGATGACACAAGTTATTT
 TGATACTCGGTCTGAGAAGTATCATCATATGGAACGGGAGGAAGAAGTACACAATGATGAAGACTTT
 AATGTGGAAATAAGGCAGTTTTCTTCATGTTACACAGGTTTTCAAAAGTTTTCAGCAGTATAGATCGAA
 TCACTCAGAATTCAGCAGAAGGAAGGAAGACTCTGTGGACAAAACAAAAGCACCACCTTGCATCCAC
 AGAAACACTGAGCTGGAGTTCAGAATATTCTGAAATGCAACAGCTATCAACATCCAACCTTTCAGATACT
 GAAAGCAACAGACATAAACTCAGTTCTGGCCTACTTCCAAAAGTGGCTATTTCAACAGAGGGAGAGCAAG
 ATGAAGCTGCCTCCTGCCTGGAGACCCCATGAGGAGCCAGGAAAGCCAGCCCTTCTCCTGAAGAGTG
 TGCCAGGAGGAGCCTGAGGTCACCACCCAGCCAGCACCATCAGCAGCTCCACCCTGTCAGATATGTTT
 GCTGTTTCCCTCTGGGAAGTCCAATGTCTCCCATTCCTGTCTCGGACCTTCTTCTCACGAGATT
 CCTCTCCAGCCGAGATTCTCAGCAGTCTGCCAGTCCACATCAGCCGATTGTATCCACAGTTCGGG
 GAAGAATAACGGCTTACCATCCGAGCCATCCGGGTGTATGTGGGAGACAGTGACATCTATACAGTGCAC
 CATATCGTCTGGAATGTAGAAGAAGGAAGTCCGGCATGCCAGGCAGGACTGAAGGCTGGAGATCTTATCA
 CTCACATCAATGGAGAACCAGTGCATGGACTTGTCCACACAGAAGTTATAGAAGCTCTACTGAAGAGTGG
 GAATAAGGTGTCATCACTACTACCCATTTGAAAACACATCAATCAAACTGGACCAGCCAGGAGAAAC
 AGCTATAAGAGCCGGATGGTGGGCGGAGCAAGAAATCCAAGAAGAAAGAAAGTCTCGAAAGGAGGAGAT
 CTCTTTTCAAAAAGCTAGCCAAGCAGCCTTCTCCTTACTCCACACCAGCCGAAGTTTCTCCTGCTTGA
 CAGATCCCTGTATCGGGTGGAGCCTCCAGGTTCCCACTCATAGCTGTCTCCCGGTCTCCAACA
 CCAAGTACCCTCCACCCCTGACTTCCCATCTGGTACTAATTCCTCCAGAGCAGCTCCCTAGTTCTA
 GTGCCCCCAATTTCCAGCAGGTTCCGGCACAATCCGGCCAGCACTCTCCACGGTCTGCCACCAAACT
 CGGCGGAGCAGGTTACCGGTCCGGAAGGAAAGTCCGGCCGCAACATCCCACTGTCCCGCTGGCCCGG
 ACGCCCTCTCAACCCCGCAACCACCTCCCGCAGCGGTCAACATCCCTCTTCTGGGACACTCACTGG
 GCAATTCGAAGTCCGCAAGCCTTTCCAGCAAGATGCACTCCCGCCACCATCGTCAGACACATCGT
 GAGGCCAAGAGTGGGAGCCCCAGGTCCCGCTGCTCAAGCGGTGCACTCCGAGGAGAAGCTGTGCG
 CCCTCTTACGGCAGTGACAAGAAGCACCTGTGCTCCCGCAAGCACAGCCTGGAGGTGACCAAGAGGAGG
 TGCAGCGGGAGCAGTCCAGCGGGAGGCGCGCTGCAGAGCCTGGATGAGAACGTGTGCGACGTGCCCGC
 GCTCAGCCGCGCCGAGTGGAGCAAGGCTGCCTGAAACGCCAGTCTCCCGAAGGTGGCCCGCCAG
 GAGTCTGTGGACGACCTGGACCCGACAAGCTGAAGGCCAAGGTGGTGGTGAAGAAAGCAGACGGCTTCC
 CAGAGAAACAGGAATCCCACCAGAAATCCCATGGACCCGGGAGTGATTTGAAAACCTTTGCTCTGTTTAA
 GCTGGAAGAGAGAGAGAAGAAAGTCTATCCGAAGGCTGTGAAAGGTCAAGTACTTTTGAACAAGAGCG
 TCTATGCAAGGAGGCGCCACCGCTGGGCAGCCTGCTGAAGGATGCTCTTCAAGCAGGCCAGCGTGCAGC
 CCAGCAGGGTGCATGTGCGATGGCCGGGTGCCTGCGGAGCACCGCCAGGGTGGCGGGGACTTCAGACG
 GGCCCCGCTCCTGGCACCTCCAGGATGGTCTCTGCCACTCCCTCGACAGGGGCATCTCTGGGAAGGGG
 GAAGGCACGGAGAAGTCTCCAGGCCAAGGAGCTTCTCCGATGTGAAAAGTTAGACAGCAAGCTGGCCA
 ACATCGATTACCTCCGAAAGAAAATGCACTTGAGGACAAAGAGGACAACCTCTGCCCTGTGCTGAAGCC
 CAAGATGACAGCTGGCTCCACGAATGCCTGCCAGGGAACCCAGTCCGACCCACGGGTGGCAGCAGGAG
 CCCCCCGGCTTCTGAGAGCCGAGCTTTGTGAGCAGCACCATGCAGCTCAGATGATGCGCTCTCTT
 TTGTTCCCTCAAGGCCTAACAGGCGGGTGGACAGTGAACGGAGAAGCCTGGCTTGGTTGCTCCTGA
 GTCCCTGTTAGGAAGAGCCCTCCGAGTATAAGCTGGAAGGTAGGTCTGTCTATGCTGAAGCCGATC
 GAGGGCACTCTGGACATTGCTCTCCTGTCCGACCTCAGGCCTCAAGACAGAAGTGCCTTCCCAAGAGT
 CTGCACAGAGCCAGCCCAAGTGGTGCAGTGGGGCCTCTGTGCCACCAGTTCTCCCAAGCAGCAGTGG
 GAAAAAGAACGATACCACAGTGAAGAGAGCTTTCTCCTTCCAGCTTAAAGATGAATAAATCTACCTG
 CTGGAGCCTTGGTTCTGCCCCAGCCGAGGTCTCCAGAATACCAGCAGTTTCCCTGCCTGACCCAG
 AGTTCAAGAGGGACAGGAAAGTCCCATCTACTGCCAGGAGCCCTGGAACAGTCAAGAAAGCAATCC
 CCAACAGAGAGAGGCGAGCTCCCTAACACCAAGACCACCACTGACCCCAAGCTTCTGACCTGCCTG
 GGGCAGAACCTCCACAGCCCTGACTGGCCAGGCCAGCTGCCCGCTCCCACTGAAGCTTCCCTCAA
 GGGAGAAGCCAGGCTGAGGGAATCGTCTGAAAGAGGCCCTCCCAAGCCAGAAGCGAGCGCTCTGCTGC
 GAGGGTGCACATGCAGAGAGCCCTCCATGGAAGTGTGCTTTCCAGAACTGCGAAAACAGTGCACAA
 TCCAAAAATCTCCTCTCTGTGGGAAGGACCCACCCAGATTTCTATACACAGACCCAGGCCATGGAGAAAG
 CATGGGCGCCGGTGGGAAAACGAACCACAAGATGGCCAGGTGAGGCGAGGCCCCCGCCAGAGACAA

```

CTCCTCTCTGCACTCAGCTGGAATTCCTGTGAGAAGGAGCTGGGCAAGGTGAGGCGTGGCGTGGAAACCC
AAGCCCGAAGCGCTTCTTGCCAGGCGGTCTCTGCAGCCACCTGGAATTGAGAGTGAGAAGAGTGAAGAGC
TCTCCAGTTTCCCATCTTTGCAGAAAGATGGTGCCAAGGAACCTGAAAGGAAGGAGCAGCCTCTACAAAG
GCATCCCAGCAGCATCCCTCCGCCCCCTCTGACGGCCAAAGACCTGTCCAGCCCGGTGCCAGGCAGCAT
TGCAGTCCCCAAGCCACGCTTCTGGCAGAGAGCCGGGGGCCAAGCCAGCACTGCAGAGCCAGCTCGA
GCCCCAGGACCCTCCAAAGCTGTTGCTGCGCACAGTAAAGCAGCAGCCACAAGCCCCGGCCTGGCCC
TGACCCGGGCCCTCCAAAGACTAAGCACCCCGACCGGTCCCTCTCCTCTCAGAAACCAAGTGTCCGGGCC
ACAAAGGGCAAAGAGCCTGCCACTCAGTCCCTCGGTGGCTCTAGCAGAGAGGGGAAGGGCCACAGTAAGA
GTGGGCCGGATGTGTTTCTGCTACCCAGGCTCCAGAACAAAGCCAGCGATGGGATTGGCCAGGGAGA
AGGTGGGCCCTCTGTCCACTGCACACTGACAGGGCTCCTCTAGACGCCAAGCCACAACCCACAGTGGT
GGGCGGCCCTGGAGGTGCTGGAGAAGCCTGTGCATTTGCCAAGGCCGGGACACCAGGGCCTAGTGAGC
CAGCGGACCAGAACTGTCCGCTGTTGGTGAAGCAACCCCTGTCTCCAAAGCACCCCAAAACCATCCAC
TGTGAAAGATTGCCCCACCCTGTCAAACAGACAGACAACAGACAGACAGACAAAAGCCGAGTCAGCCG
GCCGCAACACCCGACAGAAGGGCGGAAGGAAGAAATGCACTGAAGCACTTTATGCTCCAGCAGAGGGCG
ACAAGCTCGAGGCCGGCCTTTCTTTGTGCATAGCGAGAACCAGTTGAAAGGCGGGAGCGGCCAGCCGC
GGGGTGGGGAAGGGCTTCCCTGAGGCCAGAGGAAAGGGCCCGTCCCCAGAAGCCACCACGGAGGCA
GACAAGCCCAATGGCATGAAACGGTCCCCCTCAGCCACTGGGCAGAGTTCTTTCCGATCCACGGCCCTCC
CGGAAAAGTCTCTGAGCTGCTCCTCCAGCTTCCCTGAAACCAGGGCCGGAGTTAGAGAGGCTCTGCAGC
CAGCAGCGACACCTCTTCTGCCAAGGCCGCCGGGGCATGCTGGAGCTTCCAGCCCCAGCAACAGGGAC
CATAGGAAGGCTCAGCCTGCCGGGGAGGGCCGAACCCACATGACAAGAGTGACTCCCTGCCCTCCTTCC
GGGTCTCCACCCTGCCTCTGGAGTACACCACCCCGACCCAAACACCATGGGCGGGGCCAGCCACCGGGA
CAGGGCTCTCTCGGTGACTGCCACCGTAGGGGAAACCAAGGGAAGGACCCTGCCCCAGCCAGCCTCCC
CCAGTAGGAAACAGAACGTGGGCAGAGACGTGACCAAGCCATCCCCAGCCCCAAACTGACCCGCCCA
TCTCTCTTTCTAATGAGAAGGACTTTGTGGTACGGCAGAGGCGGGGAAAGAGAGTTTGGCTAGCAGCCC
TCACAAAAGGCCTTGTAA

```

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001290227
- 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).
- 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_001290227.1](#), [NP_001277156.1](#)
- RefSeq Size:** 9747 bp
- RefSeq ORF:** 7089 bp
- Locus ID:** 375449

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 (5) represents use of an alternate promoter, differs in the 5' UTR, uses a downstream start codon, and lacks an alternate in-frame exon compared to variant 3. The encoded protein (isoform e) has a shorter and distinct 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.