

## Product datasheet for RN209101

### MAST1 (NM\_181089) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAST1 (NM_181089) Rat Untagged Clone
Tag:	Tag Free
Symbol:	MAST1
Synonyms:	Sast
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN209101 representing NM_181089 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGACTCTCTGGACCGCCTTTCCAATTTCTCGATGCCCTCCTTCCCCGGCGGCAGCATGTTTC  
GCCGCACCAAGAGCTGCCGTACCAGTAACCGGAAAAGCCTCATCTGACAAGCACTTCTCCGACGCTACC  
GCGACCCCACTCCCCGCTGCCGGTCACTTAGGTAGCAGTCCCCTGGACAGCCCCGCAACTTCTCTCCC  
AACACCCTGCCATTTCTCGTTTCTTCTTCCCAGGGCGGATGGACGCCGGTGGTCCCTTGCTTCCC  
TTCCTTCTCTGGATATGGCACCAACACCCCAAGCTCAACCGTCTCATCTCCTGCTCCTCCAGGAGCG  
CCTGCATCAACTACCCTACCAGCCACCGTGGACGAGTTGCACTTTCTGTCCAAACACTTCGGCAGCACC  
GAGAGCATCACCGACGAAGATGGTGGCCGCGCTCCCCCGCGTGCCTCCTCGCTCTCGGAGCCTCAGCC  
CCGGAGCTCCCCCTCCTCTACGACAACGAAATCGTGATGATGAACCATGTGTACAAGGAGCGGTTCCC  
GAAGGCCACCGCGCAGATGGAAGAGAAGCTGCGGGACTTCGCCCGCGCTACGAACCTGACAGCGTGCTG  
CCGCTGGCCGACGGCGTCTCAGCTTCCACCACCAGATCATTGAACTGGCCCGAGACTGCCTTACCA  
AGTCCCAGCATGGGCTCATCACACGGTCTATTTCTATGAACTGCAGGAAAACCTAGAGAAGCTGCTGCA  
GGACGCCTACGAACGCTCGGAGAGCCTGGAGGTGGCCTTCGTCAGTCACTGCTGGTGAAGAACTGCTCATC  
ATCATCTCGCCCTGCAAGGCTTCTGGAGTGCCTGGAATTCACCCAGAAGAATTCTACCACCTGCTGG  
AGGCAGCGGAAGGCCACGCCAAGGAGGGCCACCTGGTCAAACCTGACATCCCCCGATACATCATCCGGCA  
GCTGGGCCTCACTCGGGACCCCTTTCCAGATGTGGTGCCTGGAGGAGCAGGACAGCGGGGCTCCAAC  
ACGCCTGAACAAGATGACACGCTGAGGGTGCAGCAGCACCTCCAAGGCCAAGAAAACCTCCGGTGAAA  
GTGACTTTGACACTATCAAGCTCATAAGCAATGGTGCCTACGGGGCTGTCTACCTGGTGCAGCCGGGA  
CACACGGCAGCGCTTTGCCATGAAGAAGATCAACAAACAGAATTGATCCTTCGCAACCAGATCCAGCAG  
GCGTTCGTGGAGCGTGACATCCTCACGTTTGGGAGAACCCTTGTGGTGGCATGTTCTGCTCCTTTG  
AGACCCGGCCATCTTTGCATGGTTCATGGAGTATGTGGAAGGTGGTACTGTGCCACTCTCCTGAAGAA  
CATTGGGGCACTGCCTGTGGAGATGGCTCGAATGTATTTGCAGAAACGGTTCAGCTCTTGAATACTTA



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CACAATTATGGCATTGTGCACCGTGACCTCAAGCCAGACAACCTCCTCATCACTTCCATGGGCCACATCA  
 AACTCACGGATTTTGGCCTCTCCAAGATGGGACTCATGAGCCTACCACCAACTTATATGAAGGTCACAT  
 TGAGAAAGACGCCCGGAGTTCTCTGGACAAACAGGTGTGTGGGACCCCGAGTACATCGCACCCGAGGTC  
 ATCCTGCGCCAGGGCTACGGCAAGCCGGTGGACTGGTGGGCTATGGGCATCATTCTACGAGTTCTGG  
 TGGGCTGTGTGCCTTTCTCGGGATACCCAGAAAGAGCTCTTGGACAGGTATCAGTACGACATATT  
 GTGGCTGAAGGGGATGAGGCCCTGCCACAGACGCACAGCTTCTAATATCTAGCCTCTGCAGACCAAC  
 CCCCTGGTCCGGCTTGGGCGAGCGGTGCTTTTGAAGTAAAGCAGCATAGCTTCTCCGAGACCTAGACT  
 GGACGGGGCTACTGAGGCAGAAAGCAGAGTTTCACTCCCCACCTAGAGTCAGAAGATGACACCAGTACTT  
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 GTGGAGATCCGCCAATTCTCCTCTGCTCGCCGCGCTTACGCAAGGTGTACAGCAGTATGGAGCAGTGT  
 CTCAGCAGGAGCCCAAGACTCCCGTCTCAGCATCTGGGGCTAGCAAGCGGGACCCAAATGCTAAGGGCC  
 GGAGGAGAAGGTGGCCGAAAGAGGGAGGGACTGGTGGCCTGACTCTGCGTGAGAAGACCTGGAGAGGG  
 GGCTCTCCAGAGATTAACGCTTCTCAGCATCTGAAGCCAGTTTTCTGGAGGGAGAGGCCAGTCCCCCG  
 TGGGAGCGCGCAGACGGTCTCAGCGCTACTGGAGCCAGCCGTTCACTGCCCTCAGGAGGATGAAGA  
 TGAGGCCCGACTCCGACAGCTCCTCGGCCAGCTCTGATCCCCCTAGCTCACTGGACACACGCGTCCCC  
 AAAGAAGCAGCAAGGAGAGGGCAGATCCACCCCGGAGAACCCGAGGCCACTGAGCGCTCACATCCAG  
 GTGACTTCTGCCACCCTCCAAGGATGGAGACCCGTCAGTCTAGGGCCACCAATGATCTGGTTTTGCG  
 AAGGGCGAGGCACCAGCAGTGTCTGGGATCTCTCGGTGGAGAAGCGACCGTCTCGAACCGGGGCAAA  
 GTTATCAAGTCGGCGTCAGTACAGCCTTGTGGTCAATGATTCTGCAGTGGACCCACACGGAGGCTCAC  
 CCCTGGCTAGTCCCATGTCCCCTCGATCTCTCTCCTCCAATCCATCCTCTCGGGACTCTTCGCTAGCCG  
 AGACTACTCACCAGTGTGAGTGGACTCCGCTCCCCATCACCATCCAACGCTCCGGCAAGAAATATGGC  
 TTCACACTACGAGCCATCCGTGTCTACATGGGCGACTCAGATGTCTACAGTGTCCACCACATTGTTGGC  
 ACGTGGAGGAAGGAGTCCAGCCCAAGAGCGAGGCTCTGTGCTGGAGACCTCATCACTCAGTGAACGG  
 TGAGCCTGTGCACGGTATGGTGCACCCCTGAGGTGGTGGAGTGAATTCTAAAGAGTGGCAACAAAGTACT  
 GTGACCACCACCCCTTTGAAAACACTTCCATCCGATTGGGCGGCCAGGCGCAGCAGTACAAAGCCA  
 AAATGGCCCGCAGGAACAAGAGGCTTTCAGCTAAAGATGGCCAAGAGAGCAAGAAGCGGAGCTCCCTCTT  
 CCGGAAGATCACAAAACAGTCAAACCTGTTGCACACTAGCCGATCGTGTCTCTGAAACCGGTCTTTG  
 TCGTCCAGCGACAGTCTTCTGGTTTCGCCACGCACGGACTACCCGCACGCTCGCCACGCATAGCTATC  
 GCTCCACACCTGACTCCGCTACCTAGGTGCCTCGTACAGAGTACTCTCCAGTTCACGACACCTAA  
 TTCCCCGCTCATCCGCTCGCACCACATCAGGCCAGCACTCTGCACGGGCTGTACCAGAACTACAC  
 CGCCAGTATCGTTCAGCGCGTGTAAATCGGCTGGCAACATCCCCTGTACCTCTGGCGCACACTCCGT  
 CCCCAGCAGCGCTCGCCGCCCGCTGCCAGGCCACAGGTGGGCGAGTCCCATACCAGCAGAGCTT  
 CCCTGCCAAAAGTGCACCTCATCGCCGCTATCGTGCCTCCGCGCCCAAAAGTGCAGAGCCACCAGCTCG  
 CCGTTGCTCAAGCGCGTGCAGTACAGCGAAAAGCTAGGGGCTTCGCTGGGAGCAGACAAGAAGGGAGCAT  
 TGCGCAAAACAGTCTGGAAGTGGGTACCCCTGATTTCCGAAAGGACTTCCACGGTGAAGTGGCGTGA  
 TAGCCTCGTGAAGTGGTGGAGACGCTCTATTGAGGGTCTGGGGCGACCCGGCAGGTGCGCATG  
 AGACGCTGGGCGCCAGGAATCTCCCTAAGCTTGGGCGGGACCCGTTGCTACCCGATGGTGTCCAGA  
 GACCTATGGCGTCAGGCAAGGAGGATTCGCGGGAGGTACAGAGGCTTGTACTCCACCTCGCGGACTAC  
 CCCTGGGAGCCGACCCTGGAGCGTGAATGGGCTGCACAAGGCACCAGAGCGTGCAGACTGAGGATGGC  
 CCAGTGGGGTGGCCAGAGCCCTGGCCAAGGCAGCGCTAAGCCCGGTGCAGGAACATGAGACAGGCGGC  
 GCAGTACTCCGGTGAAGCAGGAACACCCCGGTGCCATTGTTGTAGAGCTGCCCGGCCAGGGTCAA  
 GACCCAGACACCCAGCCTCTGGGCACAGACTCCAAGGGATTGAAGGAACCTGTAGCCAGATCCCTCTG  
 GTGCTGATGCCCAAGGGTCCGGGAGCGTGGTGTAGAGGAGGTGGAAGAGCGGACCAGTTAAGCG  
 GACCTCGCTCTAAGCCCGCTCCCCAAACTCTCTCTGACCCCGAGCTCCAACCGTAGCCCAACAAA  
 GAATGTACCCCGAGTGCAGTCTCTCAGTCCCACCTGCTTCCCTAATGGTCCAGGTACGAAGCCCGAA  
 GCAGGGTCAACTCCCGGTGCTCTGCTGAAGGTGTGGCTTTCAGCAGGCCAACCACAAACGGGGCACCA  
 GTCTGCATCTTAGGTCCATGA

AGCGGACCGACGCTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-RsrII

ACCN:	NM_181089
Insert Size:	4713 bp
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:	<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>
RefSeq:	<a href="#">NM_181089.1</a> , <a href="#">NP_851603.1</a>
RefSeq Size:	4713 bp
RefSeq ORF:	4713 bp
Locus ID:	353118
UniProt ID:	<a href="#">Q810W7</a>
Cytogenetics:	19q11
Gene Summary:	interacts with syntrophin on the cell surface [RGD, Feb 2006]