

## Product datasheet for MC224936

### Mast2 (NM\_001042743) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mast2 (NM_001042743) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mast2
Synonyms:	MAST205; Mtssk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224936 representing NM_001042743 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCGGAGCCGCTGCCGCGAGCGGCCGAGCCGCCACCCGCCCGCCGGGAGGATGCGGCTCCGCGGA  
CGGCCGAGTTGCCCCAGCCGAGTCTTTGCCCCGCGCCGGCGAGCGCCCGCCGGGAGGCAGCTACTGGA  
GGAGCGGAGCGGGCCTTTGGGGCAGCAGCAGGGAGCAGGATATGGTTACTGGACTTAGTCTCTGCTC  
TTCAGGAAGCTTAGTAATCCTGACATATTTGCACCCACTGGAAAAGTTAACTCCAGCGACAACCTAGTC  
AGGATGACTGTAAGTTACGGAGAGGAAGCTGGCAAGTTCTCTGTGCGGTAAAGCAGCTGCTCCCTTTGTC  
CAGCAGTGTACACAGCAGTGTGGGACAGGTAACCTGGCAGTCTACAGGAGAAGCATCAAACCTGGTTCGA  
ATGAGAAACCAATCCCTTGGACAGTCTGCACCTTCCCTTACGGCTGGCTTGAAGGAATTGAGCCTTCCAA  
GGAGAGGCAGCTTTTGTGCGGACAAGTAACCGCAAGAGCTTGATTGTAACCTCCAGCACATCACCTACGCT  
ACCAAGGCCACACTCCCCACTCCATGGCCACACAGGTAACAGTCCCTTGGACAGCCCCGGGAATTTCTCT  
CCAAATGCTCCTGCTCACTTTTCCCTTCTGCTTCCGCTGAGCCATGGCCACAGAACAGACAGGACTGATG  
GACGGCGCTGGTCTTTGGCCTCGTTGCCTTCTCAGGCTATGGAACCAACACTCCTAGCTCTACAGTCTC  
TTCATCATGTTCCACAAAGAAAAGCTTCATCAGTTACCTTTCCAGCCAACAGCTGATGAACACTACTTT  
CTGACGAAGCATTTTAGCACAGAAAACGTACCAGATGAGGAGGGACGTCGGTCCCCAGCCATGCGGGCCCC  
GTTCCCGCAGCCTCAGTCTGGACGGTCCCCAGTTTCTTTGACAGTGAATAAATAATGATGAATCATGT  
GTACAAAGAAAAGATTCCCAAGGCCACTGCACAGATGGAAGAGCGACTAGCTGACTTCATTTCTCTAAC  
ACTCCAGATAGTGTGTTGCCCTTGGCAGATGGAGCACTAAGCTTTATTCATCATCAGGTGATTGAGATGG  
CCCGAGACTGCCTGGATAAATCTCGGAGTGGCCTCATTACGTCACACTATTTCTATGAACTCAAGAGAA  
TTTGAAAAGCTTCTGCAAGATGCTCACGAACGCTCAGAAAAGCTCAGATGTAGCCTTTGTGATACAGCTG  
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CCGCTACATCGTTAGCCAGCTGGGCCTAACTCGGGATCCCTTGGAGGAAATGGCCAGTTGAGCAGCTAT



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GACAGTCCAGATACTCCAGAGACAGATGATTTCAGTTGAGGGTCGTGGGGTATCTCAGCCATCTCAGAAGA  
 CCCCTCTGAAGAGGACTTTGAAACCTTAAGCTCATCAGCAATGGCGCCTATGGGGCTGTCTTTCTGGT  
 GCGGCACAAGTCCACGCGGCAGCGCTTTGCAATGAAGAAGATTAATAAGCAAAACCTAATCTACGGAAC  
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 TCTGCTCCTTTGAGACCAAGCGTCACTTATGCATGGTGTGGAATACGTAGAAGGGGAGACTGTGCCAC  
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 GGACTTCTTCCAGCCCTTGGCAGCTTGGAGCCTCCCATCATCATCCACCGAGCTGGCAAGAAGTATGGC  
 TTCACCTGCGGGCCATTGAGTCTACATGGGTGACACTGATGTCTACACCGTACACCACATGGTGTGGC  
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 AGATGGCCCGAAGGAGCAACCGGAGCAAAGGCAAGGATGGGCAAGAAAGCCGAAAAAGAAGCTCCCTATT  
 CCGGAAAATCACAAAGCAGGCCTCCTTGCTCCACACCAGCCGACGCTTTCTTCCCTAACCCGCTCCTTG  
 TCATCAGGGGAGAGTGGTCCAGGCTCTCCACACACAGCCACAGCCTCTCTCCAGATCTCTCCTCAGG  
 GATACCGGTAGCCCCAGATGCTGTGCACTCAGGAGGGAATCCTCGCAGAGCAGCTCTCCAGCTCCAG  
 TGTGCCAGTTCTCCTGCTGGCTCTGGACATACACGGCCAGCTCTTTCACGGTCTGGCACCCAAGCTC  
 CAACGCCAATACCGCTCACCACGGCGAAGTCAAGCAGGAGCATCCCACTGTACCCGTTGGCCACACCC  
 CTTCCCCACAGCAACGGCAGCTTCACTCAGCGTTCCCCATCACCTTGTCTGGCCATGGGTCTCAGTC  
 CTTTCTACCAAACCTTCACTTGTCTCCTCCGCTAGGTAGGCAGCTCTCACGGCCCAAGAGTGCAGAGCCA  
 CCGGCTCTCCCTACTTAAGAGGGTGCAGTCTGCTGAGAAGCTGGCGGCTGCAGTGGCAGCTGCTGAGA  
 AGAAGTTAGCACCTTCCCGCAAACATAGTCTTGACCTGCCCATGGTGAAGTAAAGAAGGAACTGACACC  
 CAGGGAAGCCAGCCCTCTGGAGGTAGTTGGAACCAAGAGTGTGCTATCCGGGAAAGGGCCACTTCCAGGA  
 AAGGGGTACTGCAGCCTGCTCCTTACGGGCCCTTGGGACCCTACGGCAGGATCGAGCTGAACGCCGTG  
 AGTCACTGCAAAAACAAGAAGCAATCCGGGAAGTAGACTCCTCAGAAGATGACTGATGAGGAGCCTGA  
 GAACAGCCAGGCCACACAGGAGCAAGATTGTCCCCCACCAGAAGCAAGCCACAATCTACTCCCTAAA  
 GGTTCAGGAGAGGGTACAGAAGAGGACACTTTCTTGCACAGGGATCTAAGAAGCAGGGCCCTGTACTCT  
 CAGGTCTAGTGACAGGGCCACACTAGGCTCCCCCGAGTAGACGTTCTGGGCTCTCCCAAGGAAAGCT  
 CAGCAGGCCACAAGCCTTTGAGGAAGCTACCAACCCCTTACAAGTCCCTAGCCTGAGCAGGTCTGGACCC  
 ACAAGCCCCACCCCTCTGAAGGCTGCTGGAAGGCCAGCACCTCCACACACAGGCACTAACTGCACTTT  
 GTCCCAGCTTTTTCAGAACTTACCCTACCGGTTGTTCTGCTGCCACCTCCACCTCTGAAAGCCAGGGAC  
 ATGGTCTGGAATTCCTTATTGAGGGTCCAGACAGAGCATCCACGAACAAGACCATAACAAGGAAAGGT  
 GAACCAGTAACCTCCAAGATACGAATACCACGGTCCCAAATCTTCTGAAGAACCTGTCTCTGAGGAGG

AGAAGCCACAGCCACCAAGTGTGCCTGGGCTGACCCATCCGCTTCTTGAGGTCCCCAGCCAGAAGTGGCC  
ATGGGAGTCTGAATGTGAACAAATGGAGAAAGAAGAACCATCCCTGAGCATCACCGAAGTGCCTGATTCC  
TCAGGCGACAGGAGGCAGGACATTCCATGCAGAGCCCACCCCCTGAGCCCAGAAACCCGGCCAGCCTGC  
TCTGAAAAGCCAAGAACTTGGGGGCCAGCAAGATCATCAGGACTTAGCACTGACATCAGATGAGCTCTT  
AAAGCAAACCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001042743
<b>Insert Size:</b>	5403 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<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>
<b>RefSeq:</b>	<u><a href="#">NM_001042743.2</a></u> , <u><a href="#">NP_001036208.1</a></u>
<b>RefSeq Size:</b>	5724 bp
<b>RefSeq ORF:</b>	5403 bp
<b>Locus ID:</b>	17776
<b>UniProt ID:</b>	<u><a href="#">Q60592</a></u>
<b>Cytogenetics:</b>	4 D1
<b>Gene Summary:</b>	Appears to link the dystrophin/utrophin network with microtubule filaments via the syntrophins. Phosphorylation of DMD or UTRN may modulate their affinities for associated proteins. Functions in a multi-protein complex in spermatid maturation. Regulates lipopolysaccharide-induced IL-12 synthesis in macrophages by forming a complex with TRAF6, resulting in the inhibition of TRAF6 NF-kappa-B activation.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes isoform 1.