

Product datasheet for MC224930

Mast2 (NM_008641) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mast2 (NM_008641) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mast2
Synonyms:	MAST205; Mtssk
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224930 representing NM_008641 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAGCGGAGCCGCTGCCGCGAGCGGCCGAGCCGCCACCCGCCCGCCGGGAGGATGCGGCTCCGCGGA
CGGCCGAGTTGCCCCAGCCGAGTCTTTGCCCCGCGCCGCGAGCGCCCGCCGGGAGGCAGCTACTGGA
GGAGCGGAGCGGGCCTTTGGGGCAGCAGCAGGGAGCAGGATATGGTTACTGGACTTAGTCTCTGCTC
TTCAGGAAGCTTAGTAATCCTGACATATTTGCACCCACTGGAAAAGTTAACTCCAGCGACAACCTTAGTC
AGGATGACTGTAAGTTACGGAGAGGAAGCCTGGCAAGTTCTCTGTGCGGTAAGCAGCTGCTCCCTTTGTC
CAGCAGTGTACACAGCAGTGTGGGACAGGTAACCTTGGCAGTCTACAGGAGAAGCATCAAACCTGGTTCGA
ATGAGAAACCAATCCCTTGGACAGTCTGCACCTTCCCTTACGGCTGGCTTGAAGGAATTGAGCCTTCCAA
GGAGAGGCAGCTTTTGTGCGACAAGTAACCGCAAGAGCTTGATTGTAACCTCCAGCACATCACCTACGCT
ACCAAGGCCCACTCCCCACTCCATGGCCACACAGGTAACAGTCCCTTGGACAGCCCCGGAAATTTCTCT
CCAAATGCTCCTGCTCACTTTTCCTTCGTTCTGCCCCGAGGACTGATGGACGGCGCTGCTCTTTGGCCT
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GACGGTCCCCAGTTTCTTTGACAGTGAATAATAATGATGAATCATGTGTACAAAGAAAGATTCGCCAA
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TTGGCAGATGGAGCACTAAGCTTTATTCATCATCAGGTGATTGAGATGGCCCGAGACTGCCTGGATAAAT
CTCGGAGTGGCCTCATTACGTCACACTATTTCTATGAACTTCAAGAGAATTTGGAAAAGCTTCTGCAAGA
TGCTCACGAACGCTCAGAAAGCTCAGATGTAGCCTTTGTGATACAGCTGGTAAAAAAGTTGATGATCATC
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GGGCCTAACTCGGGATCCCTTGGAGGAAATGGCCAGTTGAGCAGCTATGACAGTCCAGATACTCCAGAG
ACAGATGATTCAGTTGAGGGTCGTGGGTATCTCAGCCATCTCAGAAGACCCCTCTGAAGAGGACTTTG



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AAACCATTAAGCTCATCAGCAATGGCGCCTATGGGGCTGTCTTTCTGGTGCGGCACAAGTCCACGCGGCA
GCGCTTTGCAATGAAGAAGATTAATAAGCAAAACCTAATCCTACGGAACCAGATCCAGCAAGCATTTGTG
GAACGCGACATACTGACTTTTCGCTGAAAACCCCTTTGTGGTCAGCATGTTCTGCTCCTTTGAGACCAAGC
GTCACCTTATGCATGGTGATGGAATACGTAGAAGGGGGAGACTGTGCCACTCTGCTCAAGAACATCGGGGC
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AAGCTGGATGAGGAGCCTCCTGGCCAAAGCAGTCGGTGTGCCAGCCCTGGAGACACGAGGCCGTGGGA
CCCCTCAGCTAGCTGAGGAAGCTACAGCCAAAGCCATCAGCGACCTAGCTGTGCTAGGGCCCGTACCCG
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GCTACGGCCCTTCCCTCCTCATTCTTCCAGAACCATGCTGCTCACCATTGGCCAGCCCTATGTCCC
CACATTCCAGTCATCCAATCCATCATCCAGGACTCTTCTCCAAGCAGGACTTCTTGCCAGCCCTTGG
CAGCTTGAGGCCTCCCATCATCATCCACCGAGCTGGCAAGAAGTATGGCTTACCCTGCGGGCCATTGCA
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CTTGCTCCTCCGCTAGGTAGGCAGCTCTCACGGCCAAAGAGTGCAGAGCCACCCGCTCTCCCCACTT
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GGAGGTAGTTGGAACCAGAAGTGTGCTATCCGGGAAAGGGCCACTTCCAGGAAAGGGGTTACTGCAGCCT
GCTCCTTACGGGCCCTTGGGACCTACGGCAGGATCGAGCTGAACGCCGTGAGTCACTGCAAAAACAAG
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GGAGCCAAGATTGCCCCCACCAGAAGCACAATCTACTCCCTAAAGGTTTCAAGAGAGGGTACA
GAAGAGGACACTTTCTTGACAGGGATCTAAAGAAGCAGGGCCCTGTACTCTCAGGTCTAGTGACAGGGG
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TTACCCCTACCGGTTGTTCTGCTGCCACCTCCACCTCTGGAAAGCCAGGGACATGGTCTGGAAATTCCT
TATTGAGGGTCCAGACAGAGCATCCACGAACAAGACCAATAACAAGGAAAGGTGAACCAGCTAACTCCCAA
GATACGAATACCAGGTCCCAAATCTTCTGAAGAACCTGTCTCCTGAGGAGGAGAAGCCACAGCCACCAA
GTGTGCTGGGCTGACCCATCCGCTTCTGAGGTCCCCAGCCAGAAGTGGCCATGGGAGTCTGAATGTGA

ACAAATGGAGAAAGAAGAACCATCCCTGAGCATCACCGAAGTGCCTGATTCTCAGGCGACAGGAGGCAG
GACATTCATGCAGAGCCACCCCTGAGCCAGAAACCCGGCCAGCCTGCTCTGGAAAAGCCAAGAAC
TTGGGGCCAGCAAGATCATCAGGACTTAGCACTGACATCAGATGAGCTCTAAAGCAAACCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_008641

Insert Size: 5385 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:

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_008641.3](#), [NP_032667.2](#)

RefSeq Size: 5706 bp

RefSeq ORF: 5385 bp

Locus ID: 17776

UniProt ID: [Q60592](#)

Cytogenetics: 4 D1

Gene Summary: 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 (2) lacks an alternate in-frame exon in the 5' coding region and uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. It encodes isoform 2, which is shorter than isoform 1.