

Product datasheet for RC209492

MAST205 (MAST2) (NM_015112) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAST205 (MAST2) (NM_015112) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAST205
Synonyms:	MAST205; MTSSK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209492 representing NM_015112 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAAGCGGAGCCGCTGCCGCGACCGACCGCAGCCGCCGCCGCCGACCGCCGGGAGGATGGAGTTCAGC
GGGCAGCGGAGCTGTCTCAGTCTTTGCCCGCGCCGGCAGCGCCGCCGGGAGGCAGCGGCTGGAGGA
GCGGACGGGCCCGCGGGGCCGAGGGCAAGGAGCAGGATGTAGTAACTGGAGTTAGTCCCTGCTCTTC
AGGAACTCAGTAATCCTGACATATTTTCATCCACTGGAAAAGTTAACTTCAGCGACAAGTGCAGT
ATGATTGTAAGTTATGGAGAGGAAACCTGGCCAGCTCTCTATCGGGTAAGCAGCTGCTCCCTTTGCCAG
CAGTGTACATAGCAGTGTGGGACAGGTGACTTGGCAGTCGTAGGAGAAGCATCAAACCTGGTTCGAATG
AGAAACAGTCCCTTGGACAGTCTGCACCTTCTTACTGCTGGCCTGAAGGAGTTGAGCCTTCCAGAA
GAGGCAGCTTTTGTCCGACAAGTAACCGCAAGAGCTTGATTGTGACCTCTAGCACATCACCTACCTACC
ACGGCCACACTCACCCTCCATGGCCACACAGGTAACAGTCCCTTGGACAGCCCCCGGAATTTCTCTCCA
AATGCACCTGCTCACTTTTCTTTGTTCCCTGCCGTAGGACTGATGGCGGGCGCTGGTCTTTGGCCTCTT
TGCCCTTTCAGGATATGGAACCTAACCTCCTAGCTCCACTGTCTCATCATGCTCCTCACAGGAAAA
GCTGCATCAGTTGCCTTCCAGCCTACAGCTGATGAGCTGCACCTTTTGGCAAGCATTTTCAGCACAGAG
AGCGTACCAGATGAGGAAGGACGCGAGTCCCAGCCATGCGGCCCTCGCTCCCGGAGCCTCAGTCCCAGG
GATCCCCAGTATCCTTTGACAGTAAAATAATAATGATGAATCATGTTTACAAAGAAAGATTTCCCAAAGGC
CACCGCACAAATGGAAGAGCGACTAGCAGAGTTTATTTCTCCAACACTCCAGACAGCGTCTGCCCTTG
GCAGATGGAGCCCTGAGCTTTATTCATCATCAGGTGATTGAGATGGCCCGAGACTGCCTGGATAAATCTC
GGAGTGGCCTCATTACATCAAACTACTTACGAACTTCAAGATAATTTGGAGAACTTTTACAAGATGC
TCATGAGCGCTCAGAGAGCTCAGAAGTGGCTTTTGTGATGCAGCTGGTAAAAAGCTGATGATTATCATT
GCCCGCCAGCACGTCTCCTGGAATGCCTGGAGTTTGACCCTGAAGAGTTCTACCACCTTTTAGAAGCAG
CTGAGGGCCACGCCAAAGAGGGACAAGGGATTAATGTGACATTTCCCGCTACATCGTTAGCCAGCTGGG
CCTCACCCGGATCCCCTAGAAGAAATGGCCAGTTGAGCAGCTGTGACAGTCTGACACTCCAGAGACA



[View online »](#)

GATGATTCTATTGAGGGCCATGGGGCATCTCTGCCATCTAAAAAGACACCCTCTGAAGAGGACTTCGAGA
 CCATTAAGCTCATCAGCAATGGCGCCTATGGGGCTGTATTTCTGGTGCGGCACAAGTCCACCCGGCAGCG
 CTTTGCCATGAAGAAGATCAACAAGCAGAACCTGATCCTACGGAACCAGATCCAGCAGGCCCTTCGTGGAG
 CGTGACATACTGACTTTCGCTGAGAACCCTTTGTGGTCAGCATGTTCTGCTCCTTTGATACCAAGCGCC
 ACTTGTGCATGGTGTGAGTACGTTGAAGGGGAGACTGTGCCACTCTGCTGAAGAATATTGGGGCCCT
 GCCTGTGGACATGGTGCCTATACTTTGCGGAACTGTCTGGCCCTGGAGTACTTACACAACATGGC
 ATCGTGCACCCGTGACCTCAAGCCTGACAACCTCCTAATTACATCCATGGGGCACATCAAGCTCACGGACT
 TTGGACTGTCCAAAATTGGCCTCATGAGTCTGACAACGAACCTGTATGAGGGTCATATTGAAAAGGATGC
 CCGGAATTCTTGACAAGCAGGTATGCGGGACCCAGAATACATTGCGCCTGAGGTGATCCTGCGCCAG
 GGCTATGGGAAGCCAGTGGACTGGTGGCCATGGGCATTATCCTGTATGAGTTCCTGGTGGGCTGCGTCC
 CTTTTTTGGAGATACTCCGGAGGAGCTCTTGGGCAGGTGATCAGTGATGAGATTGTGTGGCCTGAGGG
 TGATGAGGCAGTCCCCAGACGCCAGGACCTCACCTCAAACCTGCTCCACCAGAACCCTCTGGAGAGA
 CTTGGCACAGGCAGTGCCTATGAGGTGAAGCAGCACCCATTCTTACTGGTCTGGACTGGACAGGACTTC
 TCCGCCAGAAGGCTGAATTTATCCTCAGTTGGAGTCAGAGGATGATACTAGCTATTTTGACACCCGCTC
 AGAGCGATACCACCACATGGACTCGGAGGATGAGGAAGAAGTGAAGTGAAGGATGGTGCCTTGAGATCCGC
 CAGTTCTCTTCTGCTCTCCAAGGTTCAACAAGGTGTACAGCAGCATGGAGCGGCTCTCACTGCTCGAGG
 AGCGCCGGACACCACCCCGACCAAGCGCAGCCTGAGTGAGGAGAAGGAGGACCATTAGATGGCCTGGC
 AGGGCTCAAAGGCCGAGACCCGGAGCTGGGTGATTGGCTCCCTGAGATATTACGGAAGCGGCTGTGGTG
 TCTGAGTCGTCCACACAGAGAGTGAAGCCTCCAATGACAGTGGCAGCGCCGCTGCTCAGGCTCC
 TGGATGCGCCTCGGTTCCCGGAGGGCCCTGAGGAGGCCAGCAGCACCCCTCAGGAGGCAACCACAGGAGGG
 TATATGGTCTGACACCCCATCTGGAGAGGGGTATCTGGCCTGTACTGAACACTCAGGGGAGCAG
 CGGCCAAAGCTGAGTGAAGAAGCTGTGGCCGGAGCAGTGGTCCAGTCCAGCTATGGAGACCCGAGGCC
 GTGGGACCTCACAGCTGGCTGAGGAGCCACAGCCAAGGCCATCAGTGACCTGGCTGTGCTAGGGCCCG
 CCACCGGCTGCTCTGCGGACTCAACAGAGAAGCGCAGTCTGCCCTGTCAACAAGGATCAAGTCC
 GCCTCAGCCACAGCCCTCACTCCTCATTCTTCCGAAACACCACCTGCTCCCGTTGGCCAGCCCCA
 TGTCCCCACATTCTCAGTCGTCCAACCCATCATCCCGGACTCTTCTCCAAGCAGGGACTTCTTGGCAGC
 CCTTGGCAGCATGAGGCCTCCCATCATCATCCACCGAGCTGGCAAGAAGTATGGTTCACCTGCGGGCC
 ATTCGCGTCTACATGGGTGACTCCGATGTCTACACCGTGCACCATATGGTGTGGCAGTGGAGGATGGAG
 GTCCGGCCAGTGAGGCAGGGCTTCGTCAGGTGACCTCATCACCATGTCAATGGGAACCTGTGCATGG
 CCTGGTGCACACGGAGGTGGTGGAGCTGATCCTGAAGAGTGAAACAAGGTGGCCATTTCAACAACCTCC
 CTGGAGAACACATCCATTAAGTGGGGCCAGCTCGGAAGGGCAGCTACAAGGCCAAGATGGCCCGAAGGA
 GCAAGAGGAGCCCGGCAAGGATGGGCAAGAAAGAAAAGGAGCTCCCTGTTCCGCAAGTACCAAGCA
 AGCATCCCTGCTCCACACCAGCCGAGCCTTTCTCCCTTAACCGCTCCTTGTATCAGGGGAGAGTGGG
 CCAGGCTCTCCCACACAGCCACAGCCTTTCCCCCGATCTCCCACTCAAGGCTACCGGGTGACCCCCG
 ATGCTGTGCATTAGTGGGAGGGAATTCATCACAGAGCAGCTCCCCAGCTCCAGCGTGCCAGTCCCCC
 AGCCGGCTCTGGGCACACACGGCCAGCTCCCTCCACGGTCTGGCACCCAAGCTCCAACGCCAGTACCGC
 TCTCCACGGCGCAAGTCAAGCAGGCAGCATCCCACTGTACCCTGGCCACACCCCTTCTCCCCACCC
 CAACAGCTTACCTCAGCGGTCCCCATCGCCCCGTCTGGCCATGTAGCCAGGCCTTTCCACAAGCT
 TCACTTGTACCTCCCCGGGCAGGCAACTCTCACGGCCCAAGAGTGGGAGCCACCCCGTTTACCACATA
 CTCAAGAGGGTGCAGTCGGCTGAGAAACTGGCAGCAGCACTTGGCGCCTCTGAGAAGAAGCTAGCCACCT
 CTCGCAAGCACAGCCTTGACCTGCCCCACTCTGAACATAAAGAAGGAACTGCCGCCAGGGAAGTGAAGCC
 TCTGGAGGTAGTTGGAGCCAGGAGTGTGCTGTCTGGCAAGGGGGCCCTGCCAGGGAAGGGGTGCTGCAG
 CCTGCTCCCTCACGGGCCCTAGGCACCTCCGGCAGGACCGAGCCGAACGACGGGAGTGCCTGCAGAAGC
 AAGAAGCCATTCTGAGGTGGACTCCTCAGAGGACGACACCGAGGAAGGGCTGAGAACAGCCAGGGTGC
 ACAGGAGCTGAGCTTGGCACCTCACCCAGAAGTGAAGCAGAGTGTGGCCCTAAGGAGCAGGAGAGT
 GGGGAAGAGGATCTTTCCGTCAGAGACCCTAGGAGCCTGGGCCAATGGTCCAAGCCTATTGACAG
 GGATCACACTGGGGCCTCCAGAATGAAAAGTCCAGTGGTCCCACAGGAGGCTCGGGAGCCACAAGC
 CATTGAGGAGGCTGCCAGCTCCTCCTCAGCAGGCCCAACCTAGTTCAGTCTGGAGCCACAGACCCATC
 CCTCCTGAAGGTTGCTGGAAGGCCAGCACCTCCACACCCAGGCACTAACAGCACTTTCTCCAGCACTT
 CGGGACTCACCCACCAGCAGTTGCTCTCCTCCAGCTCCACCTCTGGGAAGCTGAGCATGTGGTCCCTG
 GAAATCCCTTATTGAGGGCCAGACAGGGCATCCCAAGCAGAAAGGCAACCATGGCAGGTGGGCTAGCC
 AACCTCCAGGATTTGAAAACACAACCTCCAGCCAGCCTAAGAACCTGTCTCCAGGGAGCAGGGGAAGA

CACAGCCACCTAGTGCCCCAGACTGGCCCATCCATCTTATGAGGATCCCAGCCAGGGCTGGCTATGGGA
 GTCTGAGTGTGCACAAGCAGTAAAAGAGGATCCAGCCCTGAGCATCACCCAAGTGCTGATGCCTCAGGT
 GACAGAAGGCAGGACGTTCCATGCCGAGGCTGCCCCCTCACCCAGAAGTCTGAGCCAGCCTCAGGAGGG
 GCCAAGAACCAGGGGGCCATCAAAGCATCGGGATTTGGCATTGGTTCCAGATGAGCTTTAAAGCAAAC
 A

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209492 representing NM_015112
 Red=Cloning site Green=Tags(s)

MKRSRCRDRPQPPPPDRREDGVQRAAELSQLPPRRRAPPGRQRLEERTGPAGPEGKEQDVVTGVSPLLF
 RKL SNPDIF SSTGKVKLQRQLSQDDCKLWRGNLASSLSGKQLLPLSSSVHSSVGQVTWQSSGEASNLVRM
 RNQSLGQSAPSLTAGLKELSLPRRGSFCRTSNRKS LIVTSSTSPTLPRHSPLHGHTGNSPLDSPRNFSP
 NAPAHFSFVPARRTDGRRWSLASLPSSGYGTNTPSSTVSSSCSSQEKHLQLPFQPTADELHFLTKHFSTE
 SVPDEEGRQSPAMRPRSRLSPGRSPVDFSEIIMNHVYKERFPKATAQMEERLAEFISNTPDVSLPL
 ADGALSF IHHQVIEMARDCLDKSRSLITSQYFVELQDNLEKLLQDAHERSESEVAFVMQLVKKLMIII
 ARPARRLECLEFDPEEFYHLLAAEGHAKGQGIKCDIPRYIVSQLGLTRDPLEEMAQLSSCDSPDTPET
 DDSIEGHGASLPSKKTPEEDFETIKLISNGAYGAVFLVRHKSTRQRFAMKKINKQNLILRNQIQQAFVE
 RDILTFAENPFVSMFCSFDTKRHLCMVMEYVEGGDCATLLKNIGALPVDMVRLYFAETVLALAYLHNYG
 IVHRDLKPDNLLITSMGHIKLTDGFLSKIGLMSLTTNL YEGHIEKDAREFLDKQVCGTPEYIAPEVILRQ
 GYGKPVDWAMGIILYEFVLVGCVPFFGDTPEELFGQVISDEIVWPEGDEALPPDAQDLT SKLLHQNPLER
 LGTGSAYEVKQHPFFTGLDWTGLLRQKAEFIPQLESEDDTSYFDRSERYHHMDESEDEEVESEDGCLER
 QFSSCSPRFNKVYSSMERLSLLEERTPPPTKRSLSEEKEDHSDGLAGLKGDRSWSVIGSPEILRRLSV
 SESSHTESDSSPMTVRRRCGLLDAPRFPEGPEEASSTLRRQPQEGIWVLT PPSGEGVSGPVTEHSGEQ
 RPKLDEEAVGRSSGSSPAMETRGRGTSQLAEGATAKAISDLAVRRARHRLSGDSTEKRTARPVNKVIKS
 ASATALSLLIPSEHHTCSPLASPMSPHSQSSNPSRDSSPSRDFLPALGSMRPIIIHRAGKKGFTLRA
 IRVYMGSDVYTVHMHVWHVEDGGPASEAGLRQGD LITHVNGEPVHGLVHTEVVELILKSGNKVAISTTP
 LENTSIVKVPARKGSYKAKMARRSKRSRGKDGQERKRSSLFRKITKQASLLHTSRSLSSLNRSLSSGESG
 PGSPTHSHSLSPRSPTQGYRVTPDAVHSVGGNSSQSSSPSSVPSPAGSGHTRPSSLHGLAPKLQRQYR
 SPRRKSAGSIPLSPLAHTPSPPPPTASPQRSPSPLSGHVAQAFPTKLHLSPPLGRQLSRPKSAEPPRSPL
 LKRVQSAEKLAALAASEKKLATSRKHSLDLPHSELKKELPPREVSPLEVVGARSVLSGKALPGKGVLQ
 PAPSRLGTLRQDRAERRESLQKQEAIREVDSSDDTEEGPENSQGAQELSLAPHPEVSQSVAPKGAGES
 GEEDPFPSRDPRSLGPMVPSLLTGITLGPPEMSPSGPHRRLGSPQAIIEAASSSAGPNLQSGATDPI
 PPEGCWAQHLHTQAL TALSPSTSGLTPTSSCSPSSSTSGKLSMWSWKSLEGPDRASPSRKATMAGGLA
 NLQDLENTTPAQPKNLSPREQKTQPPSAPRLAHP SYEDPSQGWLWESECAQAVKEDPAL SITQVPDASG
 DRRQDVP CRGCLTQKSEPSLRGQEPGGHQKHRDLALVPDELLKQT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg2636_b07.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN:

NM_015112

ORF Size:

5391 bp

OTI Disclaimer:

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:

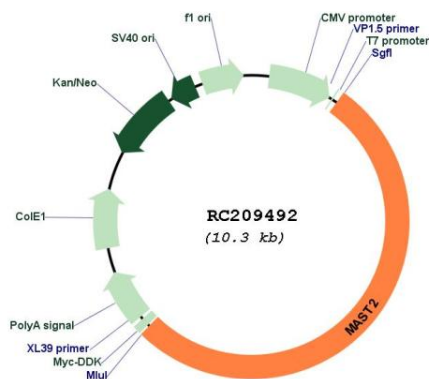
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

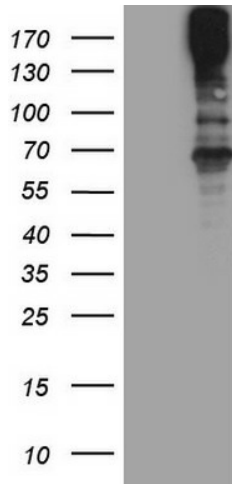
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_015112.2 , NP_055927.2
RefSeq Size:	5756 bp
RefSeq ORF:	5397 bp
Locus ID:	23139
UniProt ID:	Q6P0Q8
Cytogenetics:	1p34.1
Protein Families:	Druggable Genome, Protein Kinase
MW:	196.3 kDa
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 (By similarity). [UniProtKB/Swiss-Prot Function]

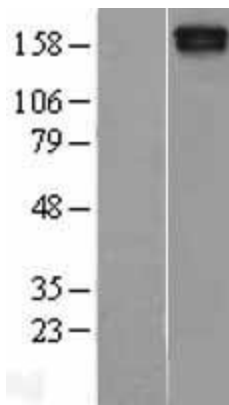
Product images:



Circular map for RC209492



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MAST2 (Cat# RC209492, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MAST2 (Cat# [TA808790])(1:2000). Positive lysates [LY402408] (100ug) and [LC402408] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402408]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209492 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).