

Product datasheet for **MG210250**

Mad111 (NM_010752) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mad111 (NM_010752) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mad111
Synonyms:	A1173502; AW550425; Mad1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210250 representing NM_010752
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAAGACCTCGGGGAGAACACCACAGTCCTCTCCTCCCTGAGATCTCTGAACAACTTCATTTCTCAGC
GAATGGAGGGAACATCAGGCCTGGATGTGTCCAGTCTGCCTCAGGGTCCCTACAGAAGCAGTATGAGTA
TCACATGCAGCTGGAGGAAAGAGCAGAGCAGATCCGCTCAAAGTCTACCTCATCCAAGTGGAGCGGGAG
AAGATGCAGATGGAGCTGAGCCACAAGAGAGCCGAGTGGAGCTGGAGAGAGCAGCCAGCACCAATGCCA
GGAACACGAGCGCAGGTAGATCGCAACCAGGAGCTCCTGGCACGCATTGACAGCTCCAGGAGTGTGA
GGCCACAGCAGAAGAGAAGATGCGGGAGCAGCTGGAGCGCCACAGGCTGTGCAAGCAAACCTGGATGCT
GTCAGTCAGCAGCTGCGGGAACAGGAGGACAGCCTGGCTTCGGCCAGGGAGATGATTAGTTCATTGAAGG
GGCGTGTCTCGGAGCTGCAGTTGAGTGCCATGGACCAGAAGGTACAGGTCAAGCGGCTGGAGTCTGAAAA
GCAGGAGCTGAAGGAGCAGCTGGAGCTGCAGCAGCGGAAATGGCAAGAGGCAAATCAGAAGATCCAGGAG
CTGCAGGCCAGTCAAGATGAGAGAGCTGAGCATGAGCAGAAGATTAAGGACCTGGAGCAGAAGCTGTGTC
TACAAGAGCAGGATGCAGCTGTGGTGAAGAGCATGAAGTCTGAGCTGATGCGGATGCCCAGGATGGAGCG
TGAGCTGAAGAGGCTGCATGAAGAGAACACTCATCTAAGGGAGATGAAGGAGACCAATGGGCTGCTCACA
GAGGAGCTGGAAGGTCTGCAGAGGAAACTGAGCCGGCAGGAGAAGATGCAGGAGGCTCTGGTTGACCTGG
AGTTGGAAAAGGAGAAGTACTTGCAAAGCTGCAGAGCTGGGAGAACCTGGACCAGACCATGGGCTTGAA
TCTCAGGACTCCAGAGGACCTTTCTAGGTTCTGTGGTTGAGCTACAGCAGCGAGAGCTCACCTGAAGGAG
AAGAATAACAGCATCACCAGCAGTGCCCGGGTCTGGAGAAGTCCAGCAGCAGCTCCAGGATGAGGTCC
GGCAGGCCAATGCACAGCTGCTGGAGGAGCGGAAAAGAGGGAGACACATGAGGCACTTGCCCGAAGGCT
CCAGAAGCGCAATGCATTGCTGACCAAGGAGAGAGATGGCATGCGTGCCATCCTGGGATCCTACGACAGT
GAGCTGACCCAAACTGAGTACTCAACCCAGCTGACACAGCGCCTGTGGGAGGCCGAGGACATGGTTCAGA
AGGTACATGCCACAGCTCGGAGATGGAGGCTCAGCTGTCTCAGGCCCTGGAGGAGCTTGGGGTTCAGAA
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TTCTATTCTGCAAAGAGGAGGTGGATGCACTCAGGTTGAAGGTGGAGGAGCTGGAGGTTGAGCGGAGCC
GTCTGGAACAGGAAAAGCAGGTGCTGGAGATGCAGATGGAGAACTAACCTACAGGTTGACTACAACCA
GAGTCGAACCAAAGTGTACACATGAGCCTTAACCCAATCAGCATGGCCAGGCAACGCCAGCATGAGGAC
CATGACCGGCTGCAGGAGGAATGTGAGCGCTTACGGGACTTGTGCATGCCCTGGAGAGAGGGGGCCCCA
TCCTGCTGACCTGGAGGCTGCCTCCAGTCTGCCCTCATCAAAGGAGGTGGCAGAGCTGCGGAAGCAGGT
GGAAAGTGTGAGCTGAAGAACCAGCGGCTGAAGGAGTTTTCCAGACCAAGATCCAGGAGTTCCGCAAA
GTTTGCTACACGCTGACCGGCTACCAGATTGACGTGACCACGGAGAGCCAATACCGCCTCACCTCCCGAT
ACGCTGAGCACCAGAGCGGACTGCCTCATCTTAAGGCCACAGGACCTCGGGCTCCAAGATGCAGCTGCT
GGAGACAGAGTTCTACGGTCTGTGCCTGAGCTCATTGAAGTGCCTGCTGCAGCAGGACAGCATCCCT
GCCTTCTCAGTGCCTCACCATAGAGCTGTTACGCCGCCAGACCTCTATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210250 representing NM_010752
 Red=Cloning site Green=Tags(s)

MEDLGENTTVLSSLRSLNNFISQRMEGTSGLDVSTSASGSLQKQYEHMQLEERAEQIRSKSYLIQVERE
 KMQMELSHKRARVELERAASNARNYEREVDNRQELLARIRQLQECEATAEEKMREQLERHRLCKQNLDA
 VSQQLREQEDSLASAREMISLKGKRVSELQLSAMDQKQVQKRLSEKQELKEQLELQQRKWQEANQKIQE
 LQASQDERAEHEQKIKDLEQKLCLEQDAAVVKSMKSELMRMPRMERELKRLHEENTHLREMKETNGLLT
 EELEGLQRKLSRQEKMQEALVDLELEKEKLLAKLQSWENLDQTMGLNLRTPEDLSRFVVELQQRELTLKE
 KNNSITSSARGLEKVVQQLQDEVVQANAQLLEERKKRETHEALARRLQKRNALLTKERDGMRAILGSYDS
 ELTQTEYSTQLTQRLWEAEDMVQKVHAHSSMEAQLSQALEELGVQKQRADTLEMELKMLKAQTSSAESS
 FSFCKEEVDALRLKVEELEGERSRLEQEKQVLEMQMEKLTQGDYNSRTKVLHMSLNPISMARQRHED
 HDRLQEECERLRGLVHALERGGPIPADLEAASSLPSSKEVAELRKQVESAEELKNQRLKEVFQTKIQEFRK
 VCYTLTGQIDVTTESQYRLTSRYAEHQTDCLIFKATGPSGSKMQLLETEFSRSVPPELIELHLLQQDSIP
 AFLSALTIELFSRQTSI

TRTRPLE - GFP Tag - V

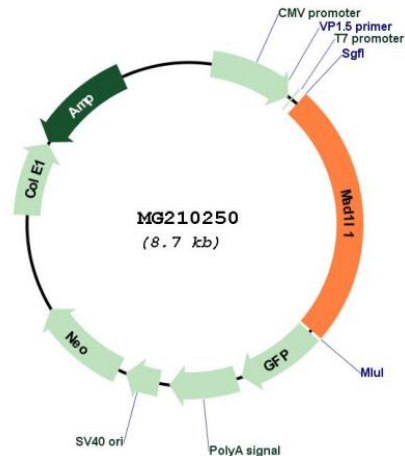
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_010752

ORF Size: 2151 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:

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_010752.3](#), [NP_034882.2](#)

RefSeq Size: 2640 bp

RefSeq ORF: 2154 bp

Locus ID: 17120

UniProt ID: [Q9WTX8](#)

Cytogenetics: 5 78.82 cM

Gene Summary: Component of the spindle-assembly checkpoint that prevents the onset of anaphase until all chromosomes are properly aligned at the metaphase plate. May recruit MAD2L1 to unattached kinetochores. Has a role in the correct positioning of the septum. Required for anchoring MAD2L1 to the nuclear periphery. Binds to the TERT promoter and represses telomerase expression, possibly by interfering with MYC binding.[UniProtKB/Swiss-Prot Function]