

Product datasheet for **SC117934**

MAD1 (MAD1L1) (NM_003550) Human Untagged Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | MAD1 (MAD1L1) (NM_003550) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | MAD1 |
| Synonyms: | MAD1; PIG9; TP53I9; TXBP181 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene ORF within SC117934 sequence for NM_003550 edited (data generated by NextGen Sequencing)

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ATGGAAGACCTGGGGGAAAAACCCATGGTTTTATCCACCCTGAGATCTTTGAACAACTTC
ATCTCTCAGCGTGTGGAGGGAGGCTCTGGACTGGATATTTCTACCTCGGCCCCAGGTTCT
CTGCAGATGCAGTACCAGCAGAGCATGCAGCTGGAGGAAAGAGCAGAGCAGATCCGTTCC
AAGTCCCACCTCATCCAGGTGGAGCGGGAGAAAATGCAGATGGAGCTGAGTCACAAGAGG
GCTCGAGTGGAGCTGGAGAGAGCAGCCAGCACCAGTGCCAGGAACTACGAGCGTGAGGTC
GACCGCAACCAGGAGCTCCTGACGCGCATCCGGCAGCTTCAGGAGCGGGAGGCCGGGGCG
GAGGAGAAGATGCAGGAGCAGCTGGAGCGCAACAGGCAGTGTGACGAGAACTTGGATGCT
GCCAGCAAGAGGCTGCGTGAGAAAGAGGACAGTCTGGCCAGGCTGGCGAGACCATCAAC
GCACTGAAGGGGAGGATCTCGAACTGCAGTGGAGCGTGATGGACCAGGAGATGCGGGTG
AAGCGCTGGAGTCGGAAGCAGGAGCTGCAGGAGCAGCTGGACCTGCAACACAAAAA
TGCCAGGAAGCCAATCAGAAAATCCAGGAACTCCAGGCCAGCCAAGAAGCAAGAGCAGAC
CATGAGCAGCAGATTAAGGATCTGGAGCAGAAGCTGTCCCTGCAAGAGCAGGATGCAGCG
ATTGTGAAGAACATGAAGTCTGAGCTGGTACGGCTCCCTAGGCTGGAACGGGAGCTGAAG
CAGCTGCGGGAGGAGAGCGCGCACCTGCGGGAGATGAGAGAGACCAACGGGCTGCTCCAG
GAAGAGCTGGAAGGGCTGCAGAGGAAGCTGGGGCGCCAGGAGAAGATGCAGGAGACGCTG
GTTGGCTTGGAGCTGGAGAACGAGAGGCTGCTGGCCAAGCTGCAAAGCTGGGAGAGACTG
GACCAGACCATGGGCCTGAGCATCAGGACTCCAGAAGACCTTTCCAGATTCGTGGTTGAG
CTGCAGCAGAGGGAGCTTGCCTTGAAGGACAAGAACAGCGCCGTACCAGCAGCGCCCGG
GGGCTGGAGAAGGCCAGGCAGCAGCTGCAGGAGGAGCTCCGGCAGGTGAGCGGCCAGCTG
TTGGAGGAGAGGAAGAAGCGCGAGACCCACGAGGCGCTGGCCCGGAGGCTCCAGAAACGG
GTCTCTGCTGCACCAAGGAGCGGGACGGTATGCGGGCCATCTGGGGTCTACGACAGC
GAGCTGACCCCGCCGAGTACTACCCAGCTGACGCGGCGCATGCGGGAGGCTGAGGAT
ATGGTGCAGAAGGTGCACAGCCACAGCGCCGAGATGGAGGCTCAGCTGTGCGAGGCCCTG
GAGGAGCTGGGAGGCCAGAAACAAGAGCAGACATGCTGGAGATGGAGCTGAAGATGCTG
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CTCAGGTTGAAGGTGAGGAGCTGGAAGGCGAGCGGAGTCCGCTGGAGGAGGAAAAGAGG
ATGCTGGAGGCACAGCTGGAGCGCGGAGCTCTGCAGGGTACTATGACCAGAGCAGGACC
AAAGTGTGCACATGAGCCTGAACCCACCAGTGTGGCCAGGCAGCGCCTGCACGAGGAC
CACAGCCAGCTGCAGGCGGAGTGCAGGCGACTGCGCGGGCTCCTGCGCGCCATGGAGAGA
GGAGGCACCGTCCAGCCGACCTTGAGGCTGCCGCCGCGAGTCTGCCATCGTCCAAGGAG
GTGGCAGAGCTGAAGAAGCAGGTGGAGAGTGCCGAGCTGAAGAACCAGCGGCTCAAGGAG
GTTTTCCAGACCAAGATCCAGGAGTTCCGCAAGGCCTGCTACACGCTCACCAGGCTACCAG
ATCGACATCACCAGGAGAACCAGTACCGGCTGACCTCGCTGTACGCCGAGCACCAGGC
GACTGCCTCATCTTAAGGCCACCAGCCCTCGGGTTCCAAGATGCAGCTACTGGAGACA
GAGTTCTCACACCCGTGGGCGAGCTCATCGAGGTGCACCTGCGGCGCCAGGACAGCATC
CCTGCCTTCTCAGCTCGCTCACCCTCGAGCTTTCAGCCGCCAGACCGTGGCGTAG
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Clone variation with respect to NM_003550.2
663 c=>t;1673 g=>a

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|-------------------------------------|---|
| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_003550 unedited GTGTTAGAATTGTATACGACTCATATAGGCGGCCGCGAAATTCGCACGAGGGCGGCGGCA AGCTGGCTGCGAGCGGCTGAGCAGCACTCCAAGCTCGCCGGCCTTTGGTCTCCAGGACTT GTCCCAGCAGCCCCTCGAACTGAGAATTACACCATCGGACCCCTGGCTCTGAGGCCTTCA GACTTGGACTGTGTCACACTGCCAGGCTTCCAGGGCTCCAATTGCAGACGGCCTGTTGT GGGACAGTCTCTGTAATCGCGAAAGCAACCATGGAAGACCTGGGGGAAAAACCATGGTT TTATCCACCCTGAGATCTTTGAACAACCTCATCTCTCAGCGTGTGGAGGGAGGCTCTGGA CTGGATATTTCTACCTCGGCCCCAGGTTCTCTGCAGATGCAGTACCAGCAGAGCATGCAG CTGGAGGAAAGAGCAGAGCAGATCCGTTGAAAGTCCCACCTCATCCAGGTGGAGCGGGAG AAAATGCAGATGGAGCTGAGTCACAAGAGGGCTCGAGTGGAGCTGGAGAGAGCAGCCAGC ACCAGTGCAGGAACTACGAGCGTGAAGTGCACCGCAACCAGGAGCTCCTGACGCGCATC CGGCAGCTTCAGGAGCGGGAGGCCGGGGCGGAGGAGAAGATGCAGGAGCAGCTGGAGCGC AACAGGCCGTGTCAGCAGAACTGGATGCTGCCAGCAAGAGGCTGCGTGAGACAGAAGAC AGTCTGGCCAGGCTGTCGAGACCATCAACGCACTGAANGNAGGATCTCGGAACTGCAG TGCAACGTGATGGACCACGAGATGCGGGTGAACGCCTGAAGTCGGAGAAGCAGAGCTGC AAGAGCANCTGAACCTGCAACACAAAAAGCCAGGAACCCATTCAGAAATCCAGNACCTC CG</p> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_003550 unedited GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTCTAGGGGAGAAGATTTTATT TCACAAGGTGAGGAACCCAGGCTGGTGGCCGACGCCACACACCAGGCTCCGGGACGCAT GGGGTCTGCACGTGGAGAGGGTGTGGCCGCCAGCAGGAAGCCGACGTAGGTCCCAG CGTGTCTGTCACTCATGCTGCTGCCCTGTGGGGCTGGAGAGGCAGGACGTGCACCCAGCC TGTGGCTGGCGGGCAGGGGACCTGCAGGTGAGCCCAAGCAGAGTGGCTCCGGCTATGCC CCCGAGCTGCAGGCTACGCCACGGTCTGGCGGCTGAAGAGCTCGAGGGTGAAGAGCTG AGGAAGGCAGGGATGCTGTCTGGCGCCGAGGTGCACCTCGATGAGCTCGCCACGGTG TGTGAGAACTCTGTCTCCAGTAGCTGCATCTTGAACCCGAGGGGCTGGTGGCCTGAAG ATGAGGCAGTGCCTGGTGTCTGGCGTACAGCGAGGTGAGCCGGTACTGGTCTCCGTG GTGATGTCGATCTGGTAGCCGTGAGCGTGTAGCAGGCTTGCAGAACTNCTGGATCTTG GCTGGNAAACCTCCCTGAGCCGCTGTTNTTCAGCTCGGCACTTTCACCTGCTTNTTCA GCTCTGCCACCTCCCGNACGATGGCAGACTCGCGCCGGCAGCCTCAGGTCNGCTGGGAC GGTGCCTCCCTCTCATGGCGCGCAGGACCCGCGCAGTGCCTCGCACTCCGCCTGAACTG CCTGTGGCCTCGTGCAGCCCTGCTGGCACCCTGGTGGGGTTCAAGCTCATGGGCCCCAC TTTTGGCCCTGCCTGGGCATAGCAACCCTGCAGAGCTTGCCTTCACTGTGCCTTCAGAT CTTTTTCTTCTCCAGCGATCCGGTGGCTTCAAGTTCTGACTTAACTGAGGGGGCCGCTC TCCTGAAAACNGAACTTGTTCGGCAACTGGCTGAACTAAAACCTACCCCATCTCAAAGCT GGTCTTGTTCCG</p> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_003550 |
| Insert Size: | 3000 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_003550.2](#), [NP_003541.2](#)

RefSeq Size: 2754 bp

RefSeq ORF: 2157 bp

Locus ID: 8379

UniProt ID: [Q9Y6D9](#)

Cytogenetics: 7p22.3

Protein Families: Druggable Genome

Protein Pathways: Cell cycle

Gene Summary: MAD1L1 is a component of the mitotic spindle-assembly checkpoint that prevents the onset of anaphase until all chromosome are properly aligned at the metaphase plate. MAD1L1 functions as a homodimer and interacts with MAD2L1. MAD1L1 may play a role in cell cycle control and tumor suppression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Variants 1-4 encode the same isoform.