

## Product datasheet for **MC200866**

### Mad2l2 (NM\_027985) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mad2l2 (NM\_027985) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mad2l2  
**Synonyms:** 2310033C13Rik; G1-453-4; MAD2B; repro22; REV7  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC011282 sequence for NM\_027985  
 GCGCGTTAGGGTCTCAGACGGTGGTTTCTATAGCCCGGTGCGTAGATTGGAACCTGAGGTCGAAACCGGA  
 GCCGGCGAATCGGGGAGGAGCGTAGAGAGGGCGGGATTTCGCCGAGAGGGATCCGGCTGCTCAGGGGGC  
 GGGGCTTCCCCCGACCGGCTGCGTTTCCCGCGTGCGGGGTCGGTTGCCTTGAGTCCCTACAGACACCT  
 CCACGCCCTCCCCAGGCGGCAAGGATGACCACCTCACGCGCAAGACCTCAACTTTGCGCAAGTGGT  
 GGCTGACGTGCTCCTCGAGTTCTGGAGGTGGCCGTGCACCTGATTCTCTATGTGCGCGAGGTCTACCCG  
 GTGGGCATCTTCCAGAAGCGCAAGAAGTACAACGTGCCGGTTCAGATGTCCTGTCATCCGGAGCTGAACC  
 AGTACATCCAGGACACACTCCACTGCGTCAAACCTCTCCTGGAGAAGAAGCATGTGGAGAAGGTGGTGGT  
 GGTGATTTGGATAAGGAACACCGCCAGTGGAGAAGTTGTCTTTGAGATCACTCAGCCTCCCTTGCTG  
 TCCATCAATTCAGACTCCCTCCTGTCTCATGTGGAGCAGCTGCTTCGAGCCTTCATCCTTAAGATTAGT  
 TGTGTGATGCTGCTGATCACAACCCTCCAGGCTGCACATTTACAGTCTCGTGCACACAAGAGAAGC  
 TGCTACTCGAAACATGGAGAAGATACAGGTCATCAAGGACTTCCCATGGATCCTGGCAGATGAACAGGAT  
 GTCCACATGCACGACCCCGCTTGATACCCCTAAAAACATGACGTCCGACATTTAAAGATGCAGCTCT  
 ACGTTGAAGAGCGAGCGCATAAGAACAGCTGAGGACATGCCTGTCAACAGCTACCCAGCTGTCCACTAC  
 GGGGCCCCAGCCCGGGGCCCCAGACTCCAAGTGTCTTATTGCCTTGACATGTGGCTGCCCTCTGGTCA  
 GGCTGCCAGCCCTGCTTGCCTTCGTGAGGCAGCCTTCCAGGAGCTGGGGAAGGATGCGAGGACACAGC  
 CCATTTCTCAGCAGCCTCCTGGGCTCAGCTGGCTAACATTGTCCACTGTGCCATGCGTTATTGTTAATAA  
 AGTGGCCCCAAGGGCTGAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_027985  
**Insert Size:** 636 bp



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<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>	<a href="#">BC011282</a> , <a href="#">AAH11282</a>
<b>RefSeq Size:</b>	1176 bp
<b>RefSeq ORF:</b>	636 bp
<b>Locus ID:</b>	71890
<b>UniProt ID:</b>	<a href="#">Q9D752</a>
<b>Cytogenetics:</b>	4 E2
<b>Gene Summary:</b>	<p>Adapter protein able to interact with different proteins and involved in different biological processes. Mediates the interaction between the error-prone DNA polymerase zeta catalytic subunit REV3L and the inserter polymerase REV1, thereby mediating the second polymerase switching in translesion DNA synthesis. Translesion DNA synthesis releases the replication blockade of replicative polymerases, stalled in presence of DNA lesions. Component of the shieldin complex, which plays an important role in repair of DNA double-stranded breaks (DSBs). During G1 and S phase of the cell cycle, the complex functions downstream of TP53BP1 to promote non-homologous end joining (NHEJ) and suppress DNA end resection. Mediates various NHEJ-dependent processes including immunoglobulin class-switch recombination, and fusion of unprotected telomeres. May also regulate another aspect of cellular response to DNA damage through regulation of the JNK-mediated phosphorylation and activation of the transcriptional activator ELK1. Inhibits the FZR1- and probably CDC20-mediated activation of the anaphase promoting complex APC thereby regulating progression through the cell cycle. Regulates TCF7L2-mediated gene transcription and may play a role in epithelial-mesenchymal transdifferentiation.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.</p>