

Product datasheet for **RG203273**

MAD2 (MAD2L1) (NM_002358) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MAD2 (MAD2L1) (NM_002358) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MAD2
Synonyms: HSMAD2; MAD2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203273 representing NM_002358
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTGCAGCTCTCCGGGAGCAGGGAATCACCTGCGCGGGAGCGCCGAAATCGTGGCCGAGTTCT
TCTCATTCGGCATCAACAGCATTTTATATCAGCGTGCCATATATCCATCTGAAACCTTTACTCGAGTGCA
GAAATACGGACTCACCTTGCTTGAAGTACTGATCTTGAGCTCATAAAATACCTAAATAATGTGGTGAA
CAACTGAAAGATTGGTTATACAAGTGTTGAGTTCAGAACTGGTGTAGTTATCTCAAATATTGAAAGT
GTGAGGTCTGGAAAGATGGCAGTTTGATATTGAGTGTGACAAGACTGCAAAGATGACAGTGCACCCAG
AGAAAAGTCTCAGAAAGCTATCCAGGATGAAATCCGTTTCAGTGATCAGACAGATCACAGTACGGTGACA
TTTCTGCCACTGTTGGAAGTTTCTTGTTCAATTTGATCTGCTGATTATACAGACAAAGATTTGGTTGAC
CTGAAAATGGGAAGAGTCGGGACCACAGTTTATTACCAATTCAGGAAAGTCCGCCTTCGTTCAATTTAC
TACTACAATCCACAAAGTAAATAGCATGGTGGCCTACAAAATTCCTGTCAATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203273 representing NM_002358
Red=Cloning site Green=Tags(s)

MALQLSREQGITLRGSAEIVAEFFSFGINSILYQRGIYPSETFTRVQKYGLTLLVTTDLELIKYLNNVVE
QLKDWLYKCSVQKLVVVISNIESGEVLERWQFDIECDKTAKDDSAPREKSQKAIQDEIRSVIRQITATVT
FLPLLEVSCSFDLLIYTDKDLVPEKWEESGPQFITNSEEVRLRSFTTTIHKVNSMVAYKIPVND

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_002358

ORF Size: 615 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_002358.4](#)

RefSeq Size: 1390 bp

RefSeq ORF: 618 bp

Locus ID: 4085

UniProt ID: [Q13257](#)

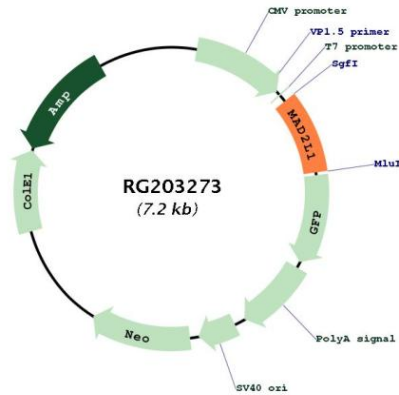
Cytogenetics: 4q27

Protein Families: Druggable Genome

Protein Pathways: Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation

Gene Summary: MAD2L1 is a component of the mitotic spindle assembly checkpoint that prevents the onset of anaphase until all chromosomes are properly aligned at the metaphase plate. MAD2L1 is related to the MAD2L2 gene located on chromosome 1. A MAD2 pseudogene has been mapped to chromosome 14. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG203273