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Product datasheet for RG223487

MAD2L1 binding protein (MAD2L1BP) (NM_001003690) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAD2L1 binding protein (MAD2L1BP) (NM_001003690) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAD2L1 binding protein
Synonyms:	CMT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG223487 representing NM_001003690
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCGCGTGCCGCTGGGGCGGAGTCTCACTCTGTCACCCAGGCTGGAGCACAATGGCATGACCTCAG
CTCACCACAACTTCCGCCTCCCAGGTTCAAGGGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGAGATTAT
AGATTTGGAGTGGTATGAGAAGTCCGAAGAAACTCACGCCTCCCAGATAGAACTACTTGAGACAAGCTCT
ACGCAGGAACCTCTCAACGCTTCGGAGGCCTTTTGCCCAAGAGACTGCATGGTACCAGTGGTGTTTCCTG
GGCCTGTGAGCCAGGAAGGCTGCTGTCAGTTTACTTGTGAACTTCTAAAGCATATCATGTATCAACGCCA
GCAGCTCCCTCTGCCCTATGAACAGCTTAAGCACTTTTACCGAAAACCTTCTCCCCAGGCAGAGGAGATG
CTGAAGAAGAAACCTCGGGCCACCACTGAGGTGAGCAGCAGGAAATGCCAACAAGCCCTGGCAGAACTGG
AGAGTGTCCTCAGCCACCTGGAGGACTTCTTTGCACGGACACTAGTACCGCGAGTGCTGATTCTCCTTGG
GGGCAATGCCCTAAGCCCCAAGGAGTTCTATGAACTCGACTTGTCTCTGCTGGCCCCCTACAGCGTGGAC
CAGAGCCTGAGCACAGCAGCTTGTTTGCGCCGTCTCTTCCGAGCCATATTCATGGCTGATGCCTTTAGCG
AGCTTCAGGCTCCTCCACTCATGGGCACCGTCGTCATGGCACAGGGACACCGCAACTGTGGAGAAGATTG
GTTTCGACCCAAGCTCAACTATCGAGTGCCCAGCCGGGGCCATAAACTGACTGTGACCCTGTCATGTGGC
AGACCTTCCATCCGAACCACGGCTTGGGAAGACTACATTTGGTTCCAGGCACCAGTGACATTTAAAGGCT
TCCGCGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

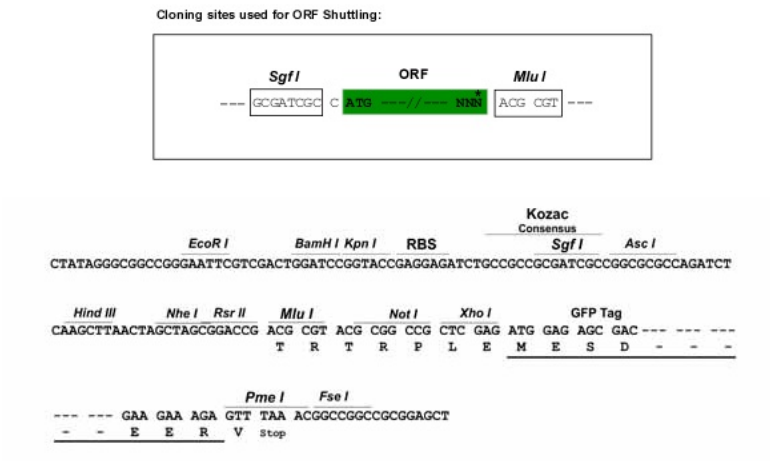
>RG223487 representing NM_001003690
Red=Cloning site Green=Tags(s)

MARVPLGRSLTLSPRLEHNGMTSAHHNFRLPGSRDSPASASQVAEIIDLEWYEKSEETHASQIELLETSS
TQEPLNASEAFCPRDCMVPVVFPGPVSQEGCCQFTCELLKHIMYQRQQLPLPYEQLKHFYRKPSPQAEEM
LKKKPRATTEVSSRKCQQALAELESVLSHLEDFFARTLVPRVLILLGGNALSPKEFYELDLSLLAPYSVD
QSLSTAACLRRLFRAIFMADAFSELQAPPLMGTVVMAQGHRNCGEDWFRPKLNYRVPSRGHKLTVTLSCG
RPSIRTTAWEDYIWFQAPVTFKGFRE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001003690

ORF Size: 918 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_001003690.1, NP_001003690.1

RefSeq Size: 1550 bp

RefSeq ORF: 921 bp

Locus ID: 9587

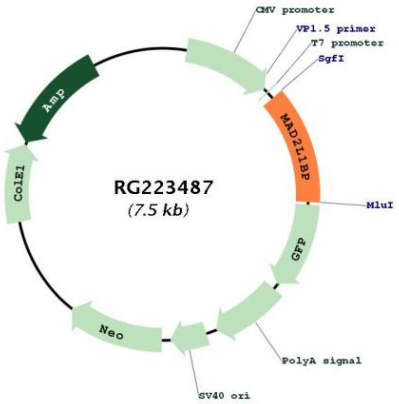
UniProt ID: Q15013

Cytogenetics: 6p21.1

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene was identified as a binding protein of the MAD2 mitotic arrest deficient-like 1 (MAD2/MAD2L1). MAD2 is a key component of the spindle checkpoint that delays the onset of anaphase until all the kinetochores are attached to the spindle. This protein may interact with the spindle checkpoint and coordinate cell cycle events in late mitosis. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG223487