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Product datasheet for RG222718

MAD1 (MAD1L1) (NM_001013836) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAD1 (MAD1L1) (NM_001013836) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAD1L1
Synonyms:	MAD1; PIG9; TP53I9; TXBP181
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG222718 representing NM_001013836
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGACCTGGGGGAAAACACCATGGTTTTATCCACCCTGAGATCTTTGAACAACTTCATCTCTCAGC
GTGTGGAGGGAGGCTCTGGACTGGATATTTCTACCTCGGCCCCAGGTTCTCTGCAGATGCAGTACCAGCA
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TGCAAGAGCAGGATGCAGCGATTGTGAAGAACATGAAGTCTGAGCTGGTACGGCTCCCTAGGCTGGAACG
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TGTACGCCGAGCACCCAGGCGACTGCCTCATCTTCAAGGCCACCAGCCCCTCGGGTTCCAAGATGCAGCT
ACTGGAGACAGAGTTCTCACACACCGTGGGCGAGCTCATCGAGGTGCACCTGCGGCGCCAGGACAGCATC
CCTGCCTTCCTCAGCTCGCTCACCCTCGAGCTCTTCAGCCGCCAGACCGTGGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG222718 representing NM_001013836
Red=Cloning site Green=Tags(s)

MEDLGENTMVLSTLRSLNNFISQRVEGGSGLDISTSAPGSLQMQYQQSMQLEERAEQIRSKSHLIQVERE
KMQMELSHKRARVELERAASTSARNYEREVDRNQELLTRIRQLQEREAGAEEKMQEQLERNRQCQQNLDA
ASKRLREKEDSLAQAGETINALKGRISELQWSVMDQEMRVKRLESEKQELQEQLDLQHKKCQEANQKIQE
LQASQEARADHEQQIKDLEQKLSLQEQDAAIVKNMKSELVRLPRLERELKQLREESAHLREMRETNGLLQ
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KNSAVTSSARGLEKARQQLQEELRQVSGQLLEERKKRETHEALARRLQKRVLLLTKERDGMRAILGSYDS
ELTPAEYSPQLTRRMREAEDMVQKVHSHSAEMEAQLSQALEELGGQKQRADMLEMELKMLKSQSSSAEQS
FLFSREEADTLRLKVEELEGERSRLEEEKRMLEAQLERRALQGDYDQSRTKVLHMSLNPTSVARQRLRED
HSQLQAECERLRGLLRAMERGGTVPADLEAAAASLPSSKEVAELKKQVESAELKNQRLKEVFQTKIQEFR
KACYTLTGYQIDITTENQYRLTSLYAEHPGDCLIFKATSPSGSKMQLLETEFSHTVGELIEVHLRRQDSI
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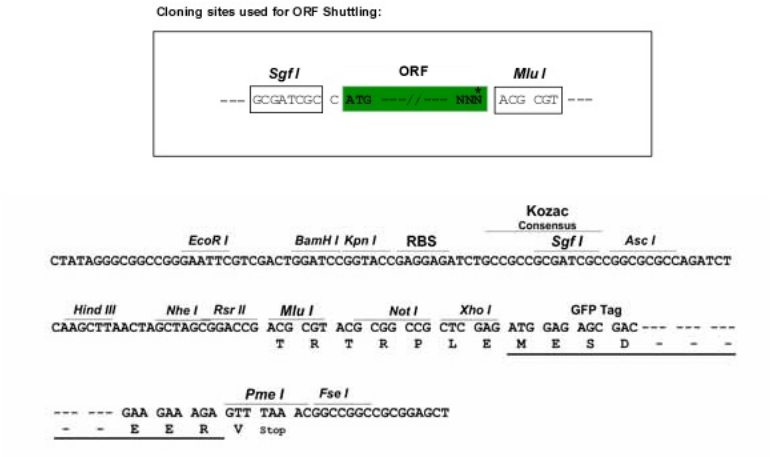
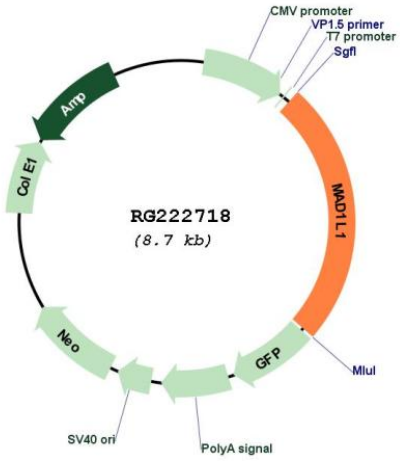
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001013836
ORF Size:	2154 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_001013836.2
RefSeq Size:	2717 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]