

Product datasheet for MG202284

Mad2l2 (NM_027985) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Mad2l2 (NM_027985) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mad2l2
Synonyms:	2310033C13Rik; G1-453-4; MAD2B; repro22; REV7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202284 representing NM_027985 Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGACCACCCTCACGCGCCAAGACCTCAACTTTGGCCAAGTGGTGGCTGACGTGCTCTCCGAGTTCCTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Dratain Convenses	NMC202294 corresponding NM 027095
Protein Sequence:	>MG202284 representing NM_027985 <mark>Red</mark> =Cloning site Green=Tags(s)
	MTTLTRQDLNFGQVVADVLSEFLEVAVHLILYVREVYPVGIFQKRKKYNVPVQMSCHPELNQYIQDTLHC VKPLLEKNDVEKVVVVILDKEHRPVEKFVFEITQPPLLSINSDSLLSHVEQLLRAFILKISVCDAVLDHN PPGCTFTVLVHTREAATRNMEKIQVIKDFPWILADEQDVHMHDPRLIPLKTMTSDILKMQLYVEERAHKN S
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling: Sgf / ORF Miu / GCGATCGC C ATG NNST ACG CGT Kozac
	EcoR I BamH I Kpn I RBS Sgf I Asc I CTATAGGGCGGCCGGGGAATTCGTCGACTCGATCCGGTACCGGAGGGGATCTGCCGGCCG
	Hind III Nhe I RSr II MILU I Not I Xho I GFP Tag CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC T R T R P L E <u>M E S D</u>
	Pme I Fse I GAA GAA AGA GTT TAA ACGGCCGGGCGGGGGGGGGG
ACCN:	NM 027985

ACCN:	NM_027985
ORF Size:	633 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. <u>More info</u>
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).

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Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 027985.2, NP 082261.2</u>
RefSeq Size:	1224 bp
RefSeq ORF:	636 bp
Locus ID:	71890
UniProt ID:	<u>Q9D752</u>
Cytogenetics:	4 E2
Gene Summary:	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

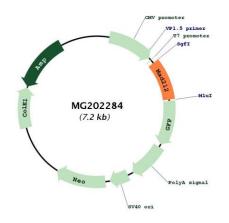
(DSBs). During G1 and S phase of the cell cycle, the complex functions downstream of TP53BP1 to promote non-homologous end joining (NHEJ) and suppress DNA end resection.

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]

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Product images:



Circular map for MG202284

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