

Product datasheet for RG209651

MAD4 (MXD4) (NM_006454) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

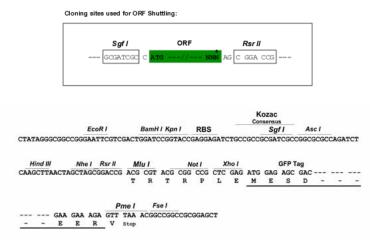
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Product Type:	Expression Plasmids
Product Name:	MAD4 (MXD4) (NM_006454) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAD4
Synonyms:	bHLHc12; MAD4; MST149; MSTP149
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>RG209651 representing NM_006454 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGAGCTGAACTCCCTGCTGATCCTGCTGGAGGCGGCCGAGTACCTGGAGCGCAGGGATCGAGAGGCCG AGCACGGCTACGCCTCGGTGCTGCCCTTCGACGGCGACTTCGCCAGGGAGAAAACAAAGGCGGCCGGC
Protein Sequence:	AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA >RG209651 representing NM_006454 Red=Cloning site Green=Tags(s)
	MELNSLLILLEAAEYLERRDREAEHGYASVLPFDGDFAREKTKAAGLVRKAPNNRSSHNELEKHRRAKLR LYLEQLKQLVPLGPDSTRHTTLSLLKRAKVHIKKLEEQDRRALSIKEQLQQEHRFLKRRLEQLSVQSVER VRTDSTGSAVSTDDSEQEVDIEGMEFGPGELDSVGSSSDADDHYSLQSGTGGDSGFGPHCRRLGRPALS
	SGPTRTRRLE - GFP Tag - V
Restriction Sites:	Sgfl-RsrII



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Cloning Scheme:

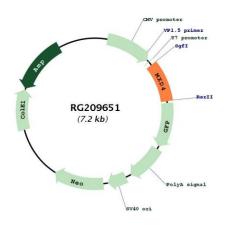


ACCN:	NM_006454
ORF Size:	627 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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).
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.
RefSeq:	<u>NM 006454.3</u>
RefSeq Size:	3773 bp
RefSeq ORF:	630 bp
Locus ID:	10608
UniProt ID:	<u>Q14582</u>
Cytogenetics:	4p16.3

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	MAD4 (MXD4) (NM_006454) Human Tagged ORF Clone – RG209651
Domains:	HLH
Protein Families	: Druggable Genome, Transcription Factors
Gene Summary:	This gene is a member of the MAD gene family . The MAD genes encode basic helix-loop- helix-leucine zipper proteins that heterodimerize with MAX protein, forming a transcriptional repression complex. The MAD proteins compete for MAX binding with MYC, which heterodimerizes with MAX forming a transcriptional activation complex. Studies in rodents suggest that the MAD genes are tumor suppressors and contribute to the regulation of cell growth in differentiating tissues. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209651

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