

Product datasheet for **SC116077**

MAD4 (MXD4) (NM_006454) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAD4 (MXD4) (NM_006454) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAD4
Synonyms:	bHLHc12; MAD4; MST149; MSTP149
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006454, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCTGAACTCCCTGCTGATCCTGCTGGAGGCGGCCGAGTACCTGGAGCGCAGGGATCGAGAGGCCG
AGCACGGCTACGCCTCGGTGCTGCCCTTCGACGGCGACTTCGCCAGGGAGAAAACAAGGCGGCCGCGCT
GGTGCGCAAGGCCCGAACAACAGGTCTTCACACAACGAGCTAGAAAAGCACAGACGAGCCAAACTCAGG
CTGTACCTTGAGCAGCTCAAGCAACTGGTGCCCTGGGCCCGACAGCACCCGCCACACCAGCTGAGCC
TCCTGAAGCGGGCCAAGGTGCACATCAAGAACTGGAGGAGCAGGACCGCCGGGCACTGAGCATCAAGGA
GCAGCTGCAGCAGGAGCATCGTTTCTGAAGCGGCGCCTGGAGCAGCTGTCGGTGCAGAGCGTGGAGCGC
GTGCGCACAGATAGCACGGGCTCTGCTGTCTCCACGGACGACTCAGAGCAAGAAGTGGACATAGAGGGCA
TGGAGTTTGGCCCTGGTGAAGTGGACAGTGTGGCAGCAGCAGTACCGCGACGACCACTACAGCCTGCA
GAGTGGCACCCGGCGGCGACAGTGCTTCGGGCCCACTGCCGGCGGCTGGGCCGCCCGCCCTCTCGTAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006454 unedited
 GGGGGTTTAGATTTGTATACGACTACTATAGGCGGCCGCGCCGGNATCCGCGGAGTC
 TGGAAAGTCGCGCGGCCGGGCGCGGGGTGGGCGGCGAGCGGAGCCGGCCGGAGCGGGCC
 GGGCAGCGGCCGCGCCGTCCCGGGGCGGACGGGCGGGGCGGGAGGATGGAGCTGAACT
 CCCTGCTGATCCTGCTGGAGGCGGCCGAGTACCTGGAGCGCAGGGATCGAGAGGCCGAGC
 ACGGCTACGCCTCGTGCTGCCCTTCGACGGCGACTTCGCCAGGGAGAAAACAAAGGCGG
 CCGGCCTGGTGCCAAGGCCCGCAACAACAGGTCTTACACAACGAGCTAGAAAAGCACA
 GACGAGCCAAACTCAGGCTGTACCTTGAGCAGCTCAAGCAACTGGTGCCCTGGGCCCGG
 ACAGCACCCGCCACACCAGCTGAGCCTCCTGAAGCGGGCCAAGGTGCACATCAAGAAAAC
 TGGAGGAGCAGGACCGCCGGGCACTGAGCATCAAGGAGCAGCTGCAGCAGGAGCATCGTT
 TCCTGAAGCGGCCCTGGAGCAGCTGTCGGTGCAAAGCGTGGAGCGGTGCGCACAGATA
 GCACGGGCTCTGCTGTCTCCACGGACGACTCAGAGCAAGAAGTGGACATAGAGGGCATGG
 AGTTTGGCCCTGGTGGAGCTGGACAGTGTGGCAGCAGCAGTGACGCGGACGACACTACA
 GCCTGCAGAGTGGCACCAGCGGCGACAGTGGCTTCNNGNCCACTGCCGGCGGCTGGGCC
 GNCCCGCCCTCTCGTAGGCCCGTCCCTCTGCTNCTTGGCTGCCTGCCGCCAGCCACG
 CGTGTCAGCCCTTCAGTTCTCCTCAGTTGACGCCAGCCTCTCCACAGCCCACTGTTGT
 GCCATTCTGGAAGCTNCAGCTGCTGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006454 unedited
 NGGGAAATCTGATGTACCGCGCCGCAATTNANGATCGNGTTTTTTTTTTTTTTTTTTTTT
 TTGCAACAATGACGTTTAACTTCTGGGAAGATTAGGAATCTGAGAACAGACCGTGGGC
 GGCTATGCTGACCAGGGTCCGGGTGTGGAAGCTGGGCCCTGCCTCCTTGCAGGGGACTC
 TGCCACAGCTGGAAGGGGCAGGCAGCTCGGCAGGCCCTGACCGGTAAAGCGGCGAGTGCCAG
 GCAGCCAGCAGCAGCTGGAGCTTCCAGAATGGCACAGCAGTGGGCCCTGTGGAGAGGCTG
 GGTCAACTGAAGGAGAACTGGAGGGCTGACACCGGTGGCTGGCGGGCAGGCAGGCCAAAG
 GAGCAAAGGGCACGGGCTACGAGAGGGCGGGCGGCCAAACCGCCGGCAGTGGGGCCCG
 AAGCCACTGTCCGCGCCGGTCCACTCTGCAAGCTGTAGTGGTCCGCGTCACTGCTG
 CTGCCAACACTGTCCAGCTCACCAGGGCCAAATCCATGCCCTCTATGTCACACTTCTTGC
 TCTGAGTCGTCCGTGGAGACAGCAGAGCCCGTGTATCTGTGCGCACGCGCTCCACGCTC
 TGGACCGACAGTTGGTTCCAGCGGCCCTTCAAGGAACGATGCTCCCGCTGGAACCTGCT
 CCTTGGTGCCTAAAGGCCCGCGGGGCTGGTTCTCCAGTTTTTTTTGAGTGCACCTTTG
 GCCCGCTTTAAGGAGGCTCACCTTGGTGTGGCGGGGGCCTTTTCGGGCCCCAGGGCCC
 CAATTGGTTGTACCTGCTCAAGGGCCAACCCGAGTTTGGGCTCCGCTGTGGCTTTTCTA
 CCCCCTTGGGGGAACCCCGGTGTTTTGGGGCCTTGGCCACCAACCGGGGCGCCTTT
 TTTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_006454

Insert Size:

1000 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none">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_006454.2 , NP_006445.1
RefSeq Size:	3773 bp
RefSeq ORF:	630 bp
Locus ID:	10608
UniProt ID:	Q14582
Cytogenetics:	4p16.3
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]