

## Product datasheet for **SC118694**

### Mad (MXD1) (NM\_002357) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mad (MXD1) (NM_002357) Human Untagged Clone
Tag:	Tag Free
Symbol:	Mad
Synonyms:	BHLHC58; MAD; MAD1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002357, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCGGCGGTTTCGGATGAACATCCAGATGCTGCTGGAGGCGGCCGACTATCTGGAGCGGCGGAGA  
GAGAAGCTGAACATGGTTATGCCTCCATGTTACCATACAATAACAAGGACAGAGATGCCTTAAAACGGAG  
GAACAAATCCAAAAGAATAACAGCAGTAGCAGATCAACTCACAATGAAATGGAGAAGAATAGACGGGCT  
CATCTTCGCTTGTGCCTGGAGAAGTTGAAGGGGCTGGTCCACTTGACCCGAATCAAGTCGACACACTA  
CGTTGAGTTTATTAACAAAAGCCAAATTGCACATAAAGAACTTGAAGATTGTGACAGAAAAGCCGTTCA  
CCAAATCGACCAGCTTCAGCGAGAGCAGCGACACCTGAAGAGGCAGCTGGAGAAGCTGGCATTGAGAGG  
ATCCGGATGGACAGCATCGGCTCCACCGTCTCCTCGGAGCGCTCCGACTCCGACAGGGAAGAAATCGACG  
TTGACGTGGAGAGCACGGACTATCTCACAGGTGATCTGGACTGGAGCAGCAGCAGTGTGAGCGACTCTGA  
CGAGCGGGGCAGCATGCAGAGCCTCGGCAGTGATGAGGGCTATTCCAGCACCAGCATCAAGAGAATAAAG  
CTGCAGGACAGTCACAAGGCGTGTCTTGGTCTCTAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_002357 unedited TTCCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCA GAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGA ATTCGGCACGAGGCGGCGGTGGCGGCTGCTGCTGCTCCGGTCTGTCACTGTGTCGG CGGTGCCAGCTCACTGGCCCCCTCCCTCTTTGTCGAGCGTGGTTGCCAGAGAGGCTCC CTCAGCCCTGCTCCGCGGGTCCACAGCGGGCTCCACAGCGGGCTCCATAGCGGGCTCA CAGCGGTCCGCGGCGGCGAGCGAGCCCGTGGGCAGTGGGGTGGTCCCGTGGCTCCGGC CCCCGGTGCAGAATGGCGGCGGCGGTTTCGATGAACATCCAGATGCTGCTGGAGCGGCC GACTATCTGGAGCGGCGGAGAGAGAAGCTGAACATGGTTATGCCTCCATGTTACCATA AATAACAAGGACAGAGATGCCTTANAACGGAGGAACAAATCCAAAAAGAATAACAGCAGT AGCAGATCAACTACAATGAAATGGAGAAGAATAGACGGGCTCATCTTCGCTTGTGCCTG GAGAAAGTGAAGNNGCTGTGCCACTTGNACCCCGATCAAGTCGACACACTACGTTGAGT TTATTAACAAAGCCAATTGCACATAAAGAACTTTTGAGATGTGACAGANAAGCCGTTCC ACCAAATCGACCAGCTTCAGCGAGAGCAGCGACACCTGAAGAAGCAGCTGNAGAAGCTGG GCATTGANAGNATCCNGATGGACACNATCGCTCCACCGTCTCTCGNAGCGCTCCACTCCG ACAGGAAAAATCNACGTTGACCTGAAAGCACACTATCTACAAGTGATCTGNACTGGAGC ACCACANTGTTGACCACTTTGAAAGCGGCCACATGCAAACCC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002357
<b>Insert Size:</b>	3700 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_002357.2</a> , <a href="#">NP_002348.1</a>
<b>RefSeq Size:</b>	5587 bp
<b>RefSeq ORF:</b>	666 bp
<b>Locus ID:</b>	4084
<b>UniProt ID:</b>	<a href="#">Q05195</a>
<b>Cytogenetics:</b>	2p13.3
<b>Domains:</b>	HLH
<b>Protein Families:</b>	Druggable Genome, Transcription Factors

**Gene Summary:**

This gene encodes a member of the MYC/MAX/MAD network of basic helix-loop-helix leucine zipper transcription factors. The MYC/MAX/MAD transcription factors mediate cellular proliferation, differentiation and apoptosis. The encoded protein antagonizes MYC-mediated transcriptional activation of target genes by competing for the binding partner MAX and recruiting repressor complexes containing histone deacetylases. Mutations in this gene may play a role in acute leukemia, and the encoded protein is a potential tumor suppressor. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2011]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.