

Product datasheet for **SC331464**

Mad (MXD1) (NM_001202514) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mad (MXD1) (NM_001202514) Human Untagged Clone
Tag: Tag Free
Symbol: Mad
Synonyms: BHLHC58; MAD; MAD1
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331464 representing NM_001202514.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCGGCGGCGGTTTCGGATGAACATCCAGATGCTGCTGGAGGCGGCCGACTATCTGGAGCGGGGAG
AGAGAAGCTGAACATGGTTATGCCTCCATGTTACCATAACAATAACAAGGACAGAGATGCCTTAAACCGG
AGGAACAAATCCAAAAAGAATAACAGCAGTAGCAGACGGGCTCATCTTCGCTTGTGCCTGGAGAAGTTG
AAGGGGCTGGTGCCTTGGACCCGAATCAAGTCGACACACTACGTTGAGTTTATTAACAAAAGCCAAA
TTGCACATAAAGAACTTGAAGATTGTGACAGAAAAGCCGTTACCAAATCGACCAGCTTCAGCGAGAG
CAGCGACACCTGAAGAGGCAGCTGGAGAAGCTGGGCATTGAGAGGATCCGGATGGACAGCATCGGCTCC
ACCGTCTCCTCGGAGCGCTCCGACTCCGACAGGAAGAAATCGACGTTGACGTGGAGAGCAGCGACTAT
CTCACAGGTGATCTGGACTGGAGCAGCAGCAGTGTGAGCGACTCTGACGAGCGGGCAGCATGCAGAGC
CTCGGCAGTGATGAGGGCTATTCCAGCACCAGCATCAAGAGAATAAAGCTGCAGGACAGTCACAAGGGC
TGTCTTGGTCTCTAA
```

Restriction Sites: Sgfl-Mlul

ACCN: NM_001202514

Insert Size: 636 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).



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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_001202514.1](#)

RefSeq Size: 5600 bp

RefSeq ORF: 636 bp

Locus ID: 4084

UniProt ID: [Q05195](#)

Cytogenetics: 2p13.3

Protein Families: Druggable Genome, Transcription Factors

MW: 24 kDa

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 (3) lacks an exon in the coding region but maintains the reading frame, compared to variant 1. The encoded isoform (3) is shorter than 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.