

## Product datasheet for **SC325583**

### MAD3 (MXD3) (NM\_001142935) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAD3 (MXD3) (NM_001142935) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAD3
Synonyms:	BHLHC13; MAD3; MYX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_001142935 edited GCTTGCTCCGGCCGGCACCCCTAGGCCGGCCCGCCAGCTGTCGCCGACATGGAACCCCT TGCCAGCAACATCCAGGTCCTGCTGCAGCGGCCGAGTTCCTGGAGCGCCGTGAGAGAG AGGCCGAGCATGGTTATGCGTCCCTGTGCCCGCATCGCAGTCCAGGCCCATCCACAGGA GGAAGAAGCGACCCCCCAGGCTCCTGGCGCGCAGGACAGCGGGCGGTGAGTGCACAATG AACTGGAGAAGCGCAGGAGGGCCAGTTGAAGCGGTGCCTGGAGCGGCTGAAGCAGCAGA TGCCCTGGGGCCGACTGTGCCCGGTACACCACGCTGAGCCTGCTGCGCCGTGCCAGGA TGCACATCCAGAAGCTGGAGGATCAGGAGCAGCGGGCCCGACAGCTCAAGGAGAGGCTGC GCAGCAAGCAGCAGAGCCTGCAGCGGCAGCTGGAGCAGCTCCGGGGGCTGGCAGGGGCGG CCGAGCGGGAGCGGCTGCGGGCGGACAGTCTGGACTCCTCAGGCCTCTCCTCTGAGCGCT CAGACTCAGACCAAGTCTTGCTAATGAAAACGGGGGAACCCCAACCACAGACCCACTG GAAGAGGAAATAATATCAGTTCCCATCACTGAC
Restriction Sites:	Please inquire
ACCN:	NM_001142935
Insert Size:	600 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.



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<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>	<u>NM_001142935.1, NP_001136407.1</u>
<b>RefSeq Size:</b>	2662 bp
<b>RefSeq ORF:</b>	582 bp
<b>Locus ID:</b>	83463
<b>UniProt ID:</b>	<u>Q9BW11</u>
<b>Cytogenetics:</b>	5q35.3
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	<p>This gene encodes a member of the Myc superfamily of basic helix-loop-helix leucine zipper transcriptional regulators. The encoded protein forms a heterodimer with the cofactor MAX which binds specific E-box DNA motifs in the promoters of target genes and regulates their transcription. Disruption of the MAX-MXD3 complex is associated with uncontrolled cell proliferation and tumorigenesis. Transcript variants of this gene encoding different isoforms have been described.[provided by RefSeq, Dec 2008]</p> <p>Transcript Variant: This variant (2) differs in the 3' UTR and 3' coding region compared to variant 1. The resulting isoform (b) has a distinct C-terminus and is shorter than isoform a.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.</p>