

Product datasheet for **SC323767**

MXI1 (NM_001008541) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MXI1 (NM_001008541) Human Untagged Clone
Tag:	Tag Free
Symbol:	MXI1
Synonyms:	bHLHc11; MAD2; MXD2; MXI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001008541.1
 CATCGCCCCGAGGCGTCCGCCCTGCAAACTGCGCAGCCCCGAGAGGGGTTTGAACCTTA
 GCACCCAAGTCTAAGTCAACTTCATAGTGTGAACATGGCTACGCCTTTCATTCCCGTCC
 ATGCCGAGCCCCGACTGCAGCATTCAAAGCCCCACGGAGGTTGAGCCGGGCACAGAAA
 CACAGCAGCGGGAGCAGCAACACCAGCACTGCCAACAGACGAGCTCATCTGCGCCTTTGT
 TTAGAACGCTTAAAAGTTCTGATTCCACTAGGACCAGACTGCACCCGGCACACAACACTT
 GGTTTGCTCAACAAAGCCAAAGCACACATCAAGAACTTGAAGAAGCTGAAAGAAAAAGC
 CAGCACCAAGCTCGAGAATTTGGAACGAGAACAGAGATTTTTAAAGTGGCGACTGGAACAG
 CTGCAAGGTCCTCAGGAGATGGAACGAATACGAATGGACAGCATTGGATCAACTATTTCT
 TCAGATCGTTCTGATTACAGAGCGAGAGGAGATTGAAGTGGATGTTGAAAGCACAGAGTTC
 TCCCATGGAGAAGTGGACAATATAAGTACCACCAGCATCAGTGACATTGATGACCACAGC
 AGCCTGCCGAGTATTGGGAGTGACGAGGTTACTCCAGTGCCAGTGTCAAACCTTTCATTC
 ACTTCATAGAACCAGCATGACATAACAGTGCAGGGCAAATATTCAGTGGGCAATTCA
 ATACAAAACATCTCTTAAATTGGGTTTCATGATGCAGTCTCCTCTTAAAAACAAAACAAA
 CAAAATACTTGAACAAAAGGTCAGAGGACCTGTATTTAAGCAAATACTTAGCAAAA
 AGTGGGGCAGAGCTCCCAAGGAGAACAAATATTCAGAATATTCATACTGAAAAATCAC
 AATTTTTAATGGCAGCAGAAAACCTGTGTGAAATTTTCTTGATTTGAGTTGATTGAGAAG
 AGGACATTGGAGATGCCATCCTCTTTCTTTTCTAGTTTGCTCATACTACATTGAGTAG
 ACACATTTAAGGATGGGGTTATGAACCTTCTGAGCTTATGGTCTAAAAGCAAAATA
 AAAACTATTTGAATGAAAAGACAAGAAATCAGGTATTAATCTTGGATAGCTAATAATGA
 GCTATTAACACTCAGCCTGGGACAGTTTATCATGAAGCCTGTGGATGATCAATCCTTTAT
 TATTATTTTTTTTTTTTTGAAAAAGCTCATTTTCATGCTCTGAAAAGGAGAGACTCCCA
 TGAAGCCTTTTGAAGGGATCATCATGCAGCTCAACTTTCTGTTGGATTCCATGCTAAGC
 AAGCTAACCTTATCCTGCATTGTTAGCACTAGGCACCCAGCTGCCACCTCTCCATCCTGC
 TGCCCTTAGGCCACATGGGAGCAGTCCATGCATGACAGCCTCTATCCTACAAGGCCTATG
 AGTATGGATTGGGGGGCCAAAAGGAAAAAGCTCCATGTGCCTCTTTGTCTGCGTGGGTC
 AGAAGAGTTGTGCACGCAGATTAGCAGGCCAAGGCTGAGCCACAGCAGCATTTTTATTT
 CAGATTTTGATAACTGTTTATATGTGTTGAAAACCAAATGACATCTTTTAAAGCTTAT
 CCATAAAAAAATAGATGTCTTTATAGTGAAAAACACATGGGGAAAAAATCATCTA
 TTTTGATGCAGCATTGATAATGATAAAACACCTCACACCTCACTCTTTATAGTGCACAA
 AATGAATGAGGTCTGGGCTAGGTAGAAAAGGGTCAATGCTATTTTTTTGTTTTTGAATC
 ATTACCTTTTACCAGCTTTTAAACCATCTGATATCTATAGTAGACACACTATCATAGTTAA
 CATAGTTAAGTTCAGCACTTGTCTCATTTTAAATGTAAGATTTGCTTCCATTTTCCCTACA
 GGCAGTCTCTCTTCTCACAGTCCCCTGTGCAGGTGCTATTGTTACTCTTACGAATA
 TTTTCAGTAATGTTATTTTCTTAAGTGAATTTCTAGCCTGCCTTTGATGTCATGTG
 TTCCCTTTGTCTTCAAACCTCAAAGTTCCCTGTGGCCCTCTCCCTTACCCTGGGAAGG
 CCTTTGGAGACCTTACCCTGGCTGTTGGACTTTGTATACTTTAATAATTTAACTAC
 CCTAATTACTTAAAAAAAAAAAAAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_001008541

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.

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:	<u>NM_001008541.1</u> , <u>NP_001008541.1</u>
RefSeq Size:	3047 bp
RefSeq ORF:	549 bp
Locus ID:	4601
UniProt ID:	<u>P50539</u>
Cytogenetics:	10q25.2
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>Expression of the c-myc gene, which produces an oncogenic transcription factor, is tightly regulated in normal cells but is frequently deregulated in human cancers. The protein encoded by this gene is a transcriptional repressor thought to negatively regulate MYC function, and is therefore a potential tumor suppressor. This protein inhibits the transcriptional activity of MYC by competing for MAX, another basic helix-loop-helix protein that binds to MYC and is required for its function. Defects in this gene are frequently found in patients with prostate tumors. Three alternatively spliced transcripts encoding different isoforms have been described. Additional alternatively spliced transcripts may exist but the products of these transcripts have not been verified experimentally. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (3), also referred to as WR, differs in the 5' UTR and lacks an alternate in-frame exon, compared to variant 1. The resulting protein (isoform c) is shorter, compared to isoform a. This variant is supported by mRNAs and ESTs but the existence of the protein product has not been verified experimentally.</p>