

Product datasheet for **SC109464**

MXI1 (NM_130439) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MXI1 (NM_130439) Human Untagged Clone
Tag:	Tag Free
Symbol:	MXI1
Synonyms:	bHLHc11; MAD2; MXD2; MXI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_130439, the custom clone sequence may differ by one or more nucleotides

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ATGGGCAAACGCGGGCGGCCGCGCAAGGAGGCGCGCTGCGAGGGCGCGGGCTGGCCCCCGCGCCCC  
CGGCTGTGCCCCCGCCGTGGCCGCGCCCCAGCCCCGGCCCTGCCGAGGACCCCGCTGGGGCCAAGCC  
CAGGTGCCCTTCTCAGACATTTTCAACACCAGCGAGAAGCTCGATGGAGAAGCACATCAACACTTTTCTG  
CAGAACGTGCAGATTCTGCTCGAGGCCGCCAGCTACCTGGAGCAGATCGAGAAAGAAAACAAAAGTGTG  
AACATGGTACGCCTTTCATTCCCGTCCATGCCGAGCCCCGACTGCAGCATTCAAAGCCCCACGGAG  
GTTGAGCCGGGCACAGAAACACAGCAGCGGGAGCAGCAACACCAGCACTGCCAACAGATCTACACACAAT  
GAGCTGAAAAGAATCGACGAGCTCATCTGCGCCTTTGTTTAGAACGCTTAAAAGTTCTGATTCCACTAG  
GACCAGACTGCACCCGGCACACAACACTTGGTTTTGCTCAACAAAGCCAAAGCACACATCAAGAACTTGA  
AGAAGCTGAAAGAAAAGCCAGCACCAGCTCGAGAATTTGGAACGAGAACAGAGATTTTTAAAGTGGCGA  
CTGGAACAGCTGCAGGTCCTCAGGAGATGGAACGAATACGAATGGACAGCATTGGATCAACTATTTCTT  
CAGATCGTTCTGATTAGAGCGAGAGGAGATTGAAGTGGATGTTGAAAGCACAGAGTTCTCCCATGGAGA  
AGTGGACAATATAAGTACCACGATCAGTGACATTGATGACCACAGCAGCCTGCCGAGTATGGGAGT  
GACGAGGGTTACTCCAGTGCCAGTGTCAAACCTTCATTCACTTCATAG
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_130439 unedited GCATTTTGTAAATACGACTCACTATAGGGCGGCNCGCGATTTCGGCAGGAGGCGCGGCTGGG GCGGCAGGGGGCGGCGGAGAGCGCGCCGAGCCGCGGCGGAGCTGGCCCCGCCGCCGTGCG ACATGTTCCGGAACGGCGCCCGGCGGTAGCCGCTGCGGCGCCTCCTGTCGGCCCCGAGAA GGGAGTGGGAGAGGCGCCGGTCCGCCACCCGCGGTGCCATGGAGCGGGTGAAGATGATC AACGTGCAGCGTCTGCTGGAGGCTGCCGAGTTTTTGGAGCGCCGGGAGCGAGAGTGTGAA CATGGCTACGCCCTCTTATTCCCGTCCATGCCGAGCCCCGACTGCAGCATTCAAAGCCC CCACGGAGGTTGAGCCGGGCACAGAAACACAGCAGCGGGAGCAGCAACACCAGCACTGCC AACAGACGAGCTCATCTGCGCCTTTGTTTAGAACGCTTAAAAAGTTCTGATTCCACTAGGA CCAGACTGCACCCGGCACATCAACACTTGGTTTGTCTAACAAAGCCAAAGCACACATCAA GAAACTTGAAGAAGCTGAAAGAAAAAGCCAGCACCAGCTCGAGAATTTGGAACGAGAACA GAGATTTTTAAAGTGGCGACTGGAACAGCTGCAGGGTCTCAGGAGATGGAACGAATACG AATGGACAGCATTGGATCAACTATTTCTCAGATCGTTCTGATTAGAGCGAGAGGAGAT TGAAGTGGATGTTGAAAGCACAGAGTTCTCCATGGNAGAAGTGGACANNATAGTACCA CCAGCATCAGTGACATTGATGACCACAGCAGCCTGCCGAGTATTGGGAGTGACGAGGGTT ACTNCACTGCCAGTGTCAAACCTTTCATCACTTCATAGAACCACATGACATANCAGTGCA GGGNCAAATATCACTGGGCCANNNTCATACAACATCTCTTAAATNGGNTCATGATGCAGN NCTCTCTTTAAAACAACANNACANACTATACTTGACAAAGGTCANAGGACCTGNATTA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_130439 unedited NNNNGGGTCCACTATGGAACCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTT TAAGTAATTAAGGGTAGTTAAATTTAAAGTATACAAAGTCCAACAGCCAGGGGTAA GGTCTCCAAGAGGCTTCCAGGGTAAGGGAGAGGGCCACAGGGGAACCTTGGAGTTTGA AAGACAAAGGGAACACATGACATCAAAGTGCAGGCTAGAAATTTCACTTAGAAGAAAATA ACATTACTGAAAATATTCGTAAGAGTAACAATAGCACCTGCACAGTGGGACTGTGAGGAA GAGAGAGACTGCCTGTAGGAAAATGGAAGCAAATCTTTACATTAATAAGAGCAAGTGTCT GAACCTAACTATGTTAACTATGATAGTGTGTCTACTATAGATATCAGATGGTTAAAAGCT GGTAAAAGGTAATGATTCTAAAAACAAAATAGCATTGACCCTTTTCTACCTAGCCCAG ACCTCATTCAATTTGTGCACTATAAAGAGTGAGGTGTGAGGTGTTTTATCATTATCAAAT GCTGCATCAAAAATAGATGATTTTTTTCCCATGTGTTTTCCACTATAAAAGACATCTAT TTTTTTTTATGGATAAGCTTTAAAAAGATGCTTTTTGGTTTTTCAACACATATAAACAGT TATCAAAATCTGAAATAAAAATGCTGTGGCTCAGACCTTGGCTGCTAATCTGCGTG CACAACCTTTCTGACCCACGACAGACAAAGAGGCACATGGAGCTTTTTCTTTTGGCCCC CCAATCCATACTCATAGGCCTTGTNAGATAGAGGCTGTGCATGGACTGCNTCCCATG TGCCATAANGGCANNAGATGGANAAGTGGCANNCTGGTGCCTAGTGCTAACA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_130439
Insert Size:	2400 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_130439.1 , NP_569157.1
RefSeq Size:	3470 bp
RefSeq ORF:	549 bp
Locus ID:	4601
UniProt ID:	P50539
Cytogenetics:	10q25.2
Domains:	HLH
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 (2), also referred to as SRalpha, differs in the 5' UTR and coding region, compared to variant 1. The resulting protein (isoform b) is longer and has a distinct N-terminus, compared to isoform a.</p>