

## Product datasheet for **MG218023**

### **Mxi1 (NM\_001008542) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mxi1 (NM\_001008542) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Mxi1  
**Synonyms:** bHLHc11; Gm10197; Mad2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG218023 representing NM\_001008542  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCCCGGCCGCGCCGCGCCCCAGCCCCGGCGCAGCCGGAGGAGCCGGCGGGGGCCAAGCCCCGGT  
GCCCTTCTCGGACATTTTCAACACCAGCGAGAAGCTCGATGGAGAAGCACATCAACACTTTTCTGCAGAA  
CGTGCAGATTCTGCTCGAGGCAGCCAGCTACCTGGAGCAGATCGAGAAAGAAAACAAAAGTGTGAACAT  
GGCTACGCCTCATCGTTCCCTCCATGCCGAGCCCCGGCTACAGCACTCGAAGCCCCACGGAGGTTGA  
GCCGGGCACAGAAACACAGCAGTGAAGCAGCAACACCAGCACTGCCAACAGATCTACACACAATGAGTT  
GGAAAAGAACCGACGAGCTCACCTGCGCCTGTGTTTAGAACGCTTGAAAGTTCTGATCCCGCTGGGCCCA  
GACTGCACCAGGCACACAACACTCGGTTTGTCAACAAAGCCAAAGCACACATCAAGAACTTGAAGAAG  
CGGAGAGGAAGAGCCAGCACCAGCTAGAGAAGTTGAAACGAGAACAGAGGTTTTTAAAGCGCGACTGGA  
ACAGCTGCAGGGGCTCAGGAGATGGAGCGGATACGAATGGACAGCATTGGATCAACCATCTCTTCAGAT  
CGCTCGGATTCAGAGCGAGAGGAGATTGAAGTGGATGTGGAAAGCACAGAGTTCTCCCATGGAGAAGCAG  
ACAGTGCAGTACCACCAGCATCAGTGACCTTGACGACCACAGCAGCCTGCAGAGTGTGGGAGTGACGA  
GGTTATTCCAGTGCCAGTGTCAAACCTCTCCTTCGCGTCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG218023 representing NM\_001008542  
 Red=Cloning site Green=Tags(s)

MPPAAAAPQPPAQPEEPAGAKPRCPFSDIFNTSENSMEKHINTFLQNVQILLEAASYLEQIEKENKKCEH  
 GYASSFSPMSPRLQHSKPPRRLSRAQKHSSGSNTSTANRSTHNELEKNRRAHLRLCLERLKVLIPLGP  
 DCTRHTTLGLLNKAKAHIKKLEEAERKSOHQLENLEREQRFLLRRLEQLQGPQEMERIMDSIGSTISSD  
 RSDSEREEIEVDVESTEFSHGEADSVTTSISDLDDHSSLQSVGSDEGYSSASVKLSFAS

TRTRPLE - GFP Tag - V

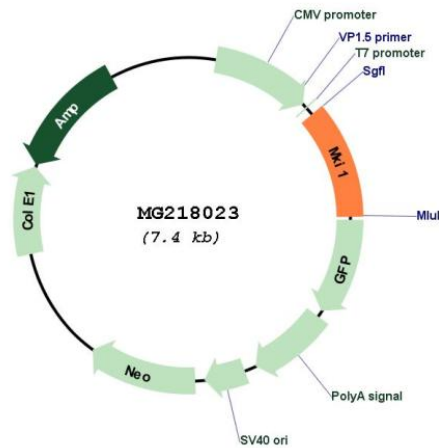
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001008542

**ORF Size:** 885 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001008542.1</a>
<b>RefSeq Size:</b>	5156 bp
<b>RefSeq ORF:</b>	888 bp
<b>Locus ID:</b>	17859
<b>Cytogenetics:</b>	19 47.53 cM
<b>Gene Summary:</b>	This gene encodes a protein containing a helix-loop-helix domain characteristic of transcription factors, which allows heterodimerization and sequence-specific DNA binding. The encoded protein is related to a family of Myc/Max/Mad proteins that are involved in the regulation of several cellular processes. The protein encoded by this gene is a transcriptional repressor thought to negatively regulate Myc function. Three alternatively spliced transcripts encoding different isoforms have been described. [provided by RefSeq, Jul 2008]