

Product datasheet for MR218023

Mxi1 (NM_001008542) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mxi1 (NM_001008542) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mxi1
Synonyms: bHLHc11; Gm10197; Mad2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR218023 representing NM_001008542
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCAAACGCGGGCGGCCGCAAGGAGGCGCGCTGCGAGGGCGGGGCTGGTCCCCGTCGCGCCCC
 CGGCCATGCCCCGCGCCGCGCCCGCCCCAGCCCCGGCGCAGCCGGAGGAGCCGGCGGGGCCAAGCC
 CCGGTGCCCTTCTCGGACATTTTCAACACCAGCGAGAAGTTCGATGGAGAAGCACATCAACTTTTCTG
 CAGAACGTGCAGATTCTGCTCGAGGCAGCCAGCTACCTGGAGCAGATCGAGAAAGAAAACAAAAAGTGTG
 AACATGGCTACGCTCATCGTTCCCTCCATGCCGAGCCCCGGCTACAGCACTGAAGCCCCACGGAG
 GTTGAGCCGGGCACAGAAACACAGCAGTGAAGCAGCAACACCAGCACTGCCAACAGATCTACACACAAT
 GAGTTGAAAAGAACCGACGAGCTCACCTGCGCCTGTGTTTGAACGCTTGAAAGTTCTGATCCCCGCTGG
 GCCCAGACTGCACCAGGCACACAACACTCGGTTTGTCAACAAAGCCAAAGCACACATCAAGAACTTGA
 AGAAGCGGAGAGGAAGAGCCAGCACCAGCTAGAGAAGTGAACGAGAACAGAGGTTTTTAAAGCGGCGA
 CTGGAACAGCTGCAGGGGCTCAGGAGATGGAGCGGATACGAATGGACAGCATTGGATCAACCATCTCTT
 CAGATCGCTCGGATTCAGAGCGAGAGGAGATTGAAGTGGATGTGGAAGCACAGAGTTCTCCCATGGAGA
 AGCAGACAGTGTCACTACCACAGCATCAGTGACCTTGACGACCACAGCAGCTGCAGAGTGTGGGAGT
 GACGAGGGTTATCCAGTGCCAGTGTCAAACCTCCTTCGCGTCC

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218023 representing NM_001008542
Red=Cloning site Green=Tags(s)

MGKRGRPRKEARCEGAGLVPVAPPAMPAAAAAPPPAQPEEPAGAKPRCPFSDIFNTSENSMEKHINTFL
 QNVQILLEAASYLEQIEKENKKCEHGYASSFPSPRLQHSKPPRRLSRAQKHSNGSSNTSTANRSTHN
 ELEKNRRAHLRLCLERLKVLIPLGPDCTRHTTLGLLNKAKAHIKLEEAEKRSQHQLENLEREQRFLKRR
 LEQLQGPQEMERIRMSIGSTISSDRSDSEREEIEVDVESTEF SHGEADSVSTTISIDLDDHSSLQSVGS
 DEGYSSASVKLSFAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9089_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001008542

ORF Size: 885 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_001008542.3](#)

RefSeq Size: 5156 bp

RefSeq ORF: 888 bp

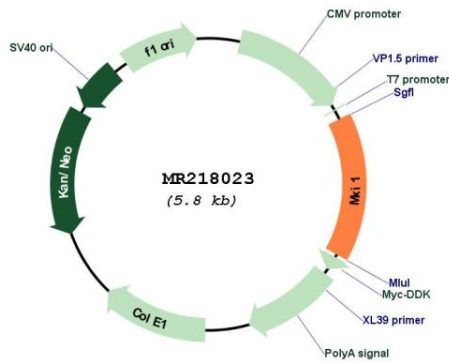
Locus ID: 17859

Cytogenetics: 19 47.53 cM

MW: 32.8 kDa

Gene Summary: 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]

Product images:



Circular map for MR218023