

Product datasheet for MR218931

Mxi1 (NM_010847) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mxi1 (NM_010847) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mxi1
Synonyms: bHLHc11; Gm10197; Mad2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR218931 representing NM_010847
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGAGCGGGTGCGGATGATCAACGTGCAGCGCCTGCTGGAGGCCGCGGAGTTTTGGAGCGCAGGGAGC
GAGAGTGTGAACATGGCTACGCCTCATCGTTCCCCTCCATGCCGAGCCCCGGCTACAGCACTCGAAGCC
CCCACGGAGGTTGAGCCGGGCACAGAAACACAGCAGTGAAGCAGCAACACCAGCACTGCCAACAGATCT
ACACACAATGAGTTGAAAAGAACCAGCAGCTCACCTGCGCCTGTGTTAGAAGCTTGAAGTTCTGA
TCCCGCTGGGCCAGACTGCACCAGGCACACAACACTCGGTTTGCTCAACAAAGCCAAAGCACACATCAA
GAAACTTGAAGAAGCGGAGAGGAAGAGCCAGCACCAGCTAGAGAAGTTGGAACGAGAACAGAGGTTTTTA
AAGCGGCGACTGGAACAGCTGCAGGGCCCTCAGGAGATGGAGCGGATACGAATGGACAGCATTGGATCAA
CCATCTCTTCAGATCGCTCGATTTCAGAGCGAGAGGAGATTGAAGTGGATGTGGAAGCACAGAGTTCTC
CCATGGAGAAGCAGACAGTGTAGTACCACCAGCATCAGTGACCTTGACGACCACAGCAGCCTGCAGAGT
GTCGGGAGTGACGAGGGTTATTCCAGTGCCAGTGTCAAACCTCTCCTTCGCGTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218931 representing NM_010847
 Red=Cloning site Green=Tags(s)

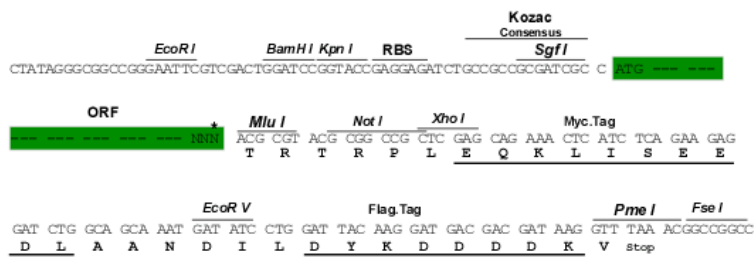
MERVRMINVQRLLLEAAEFLERRERECEHGYASSFSPMPSRLQHSKPPRRLSRAQKHSSGSSNTSTANRS
 THNELEKNRRAHLRLCLERLKVLIPLGPDCTRHTLGLLNKAKAHIKKLEEAERKSQHLENLEREQRFL
 KRRLEQLQGPQEMERIRMSIGSTISSDRSDSEREEIEVDVESTEF SHGEADSVTTSISIDLDDHSSLQS
 VGSDEGYSSASVKLSFAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

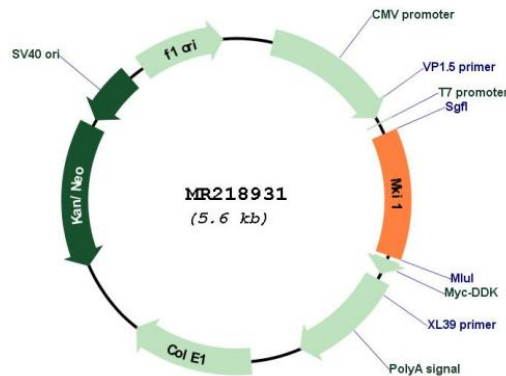
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_010847

ORF Size: 684 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:	<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_010847.4
RefSeq Size:	4996 bp
RefSeq ORF:	687 bp
Locus ID:	17859
UniProt ID:	P50540
Cytogenetics:	19 47.53 cM
MW:	26.4 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]