

Product datasheet for RC212437

MXI1 (NM_005962) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MXI1 (NM_005962) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MXI1
Synonyms:	bHLHc11; MAD2; MXD2; MXI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212437 representing NM_005962 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCGGGTGAAGATGATCAACGTGCAGCGTCTGCTGGAGGCTGCCGAGTTTTGGAGCGCCGGGAGC
GAGAGTGTGAACATGGCTACGCCTCTTCATTCCCGTCCATGCCGAGCCCCGACTGCAGCATTCAAAGCC
CCCACGGAGGTTGAGCCGGGCACAGAAACACAGCAGCGGGAGCAGCAACACCAGCACTGCCAACAGATCT
ACACACAATGAGCTGAAAAGAATCGACGAGCTCATCTGCGCCTTTGTTTAGAACGCTTAAAAGTTCTGA
TTCCACTAGGACCAGACTGCACCCGGCACACAACACTTGGTTTGCTCAACAAAGCCAAAGCACACATCAA
GAACTTGAAAGAAGCTGAAAGAAAAAGCCAGCACCAGCTCGAGAATTTGGAACGAGAACAGAGATTTTTA
AAGTGGCGACTGGAACAGCTGCAGGGTCTCAGGAGATGGAACGAATACGAATGGACAGCATTGGATCAA
CTATTTCTTCAGATCGTTCTGATTAGAGCGAGAGGAGATTGAAGTGGATGTTGAAAGCACAGAGTTCTC
CCATGGAGAAGTGGACAAATAAGTACCACCAGCATCAGTGACATTGATGACCACAGCAGCCTGCCGAGT
ATTGGGAGTGACGAGGGTTACTCCAGTGCCAGTGTCAAATTTCACTTCA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC212437 representing NM_005962
Red=Cloning site Green=Tags(s)

MERVKMINVQRLLEAAEFLERRERECEHG YASSFPSPRLQHSKPPRRLSRAQKHSSGSSNTSTANRS
 THNELEKNRRAHLRLCLERLKVLIPLGPDCTRHTLGLLNKAKAHIKKLEEAERKSQHLENLEREQRFL
 KWRLEQLQGPQEMERIRMSIGSTISSDRSDSEREEIEVDVESTEF SHGEVDNISTTSISDIDDHSSLPS
 IGSDEGYSSASVKLSFTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_005962

ORF Size: 684 bp

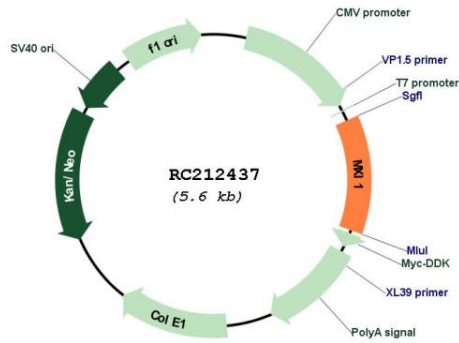
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_005962.5
RefSeq Size:	3272 bp
RefSeq ORF:	687 bp
Locus ID:	4601
UniProt ID:	P50539
Cytogenetics:	10q25.2
Domains:	HLH
Protein Families:	Druggable Genome, Transcription Factors
MW:	25.9 kDa
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>

Product images:



Circular map for RC212437