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Product datasheet for MC225452

Mga (NM_013720) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mga (NM_013720) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mga
Synonyms:	AV312082; C80739; C130042M01Rik; D030062C11Rik; Mad5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC225452 representing NM_013720
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGAGAAACAGCAAATCATATTGGCCAATCAAGATGGAGGGACAGTGACAGGAGGAGCACCTACCT
TCTTTGTCATCCTAAAGCAGCCAGGAAATGGCAAAACTGATCAAGGAATTTTAGTTACTAATCGAGATGC
CCGTGCTTTGTTGAGTAGGGAGTCATCACCAGGAAAATCTAAAGAGAAAATTTGCCTTCCGGCTGATTGT
ACTGTGGGAAAAATCACGGTTACCCTTGATAACAATAGTATGTGGAATGAGTTCCATAATCGAAGCACAG
AGATGATTCTGACCAAACAGGGAAGACGCATGTTTCCTTATTGTCGATATTGGATAACAGGCTTAGATTC
AAATTTAAAGTATATCCTTGTAATGGACATATCTCCTGTGGATAGTCATCGGTATAAGTGGAATGGTCGT
TGGTGGGAACCCAGTGGGAAGGCTGAACCCCATATTTTGGGGAGAGTTTTCATTCATCCAGAATCTCCTT
CTACAGGTCATTATTGGATGCATCAACCAGTGTCTTTCTATAAACTCAAACTTACTAACAATACACTGGA
CCAGGAAGGACATATTATCTTGCACTCTATGCATCGTTATCTGCCAAGGCTTCATTTGGTGCCAGCAGAA
AAGGCTACAGAAGTGATACAGTTAAATGGCCCCGGTGTTCATACTTTTACTTTCCCCCAGACTGAATTCT
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GGACTGACTTTTGCTTAAGCAAGGATTCAGAAAATAGTCTCAGAAAACATTCACCAGATCTCAGAATTGT
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TTCCCATAGGAAATCTAGTGATGGAGGGCAGAGTACTTCTGGTCTCCCCGCAGAGCCTGAAAGTGTATCT

TCACCTCCCATCTTACACATGAAGACTGGCCCGGAGAACAGCAACACAGATACTTTGTGGAGGCCTATGC
CAAAGTTGGCCCCATTAGGTTTAAAAGTAGCTAATCCCCCCAGTGATGCCGATGGTCAGAGTCTCAAGGT
GATGCCTGCCTTGGCACCTATAGCTGCCAAAGTTGGGTCAATTGGACACAAAATGAATTTAGCAGGAATT
GACCAGGAAGGCCGGGGGAGCAAGGTGATGCCTACATTGGCACCTGTTGTACCTAAATTGGGCAACTCTG
GAGCTCCATCAAGTTCATCAGGGAAATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_013720

Insert Size: 9129 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:
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_013720.2, NP_038748.2

RefSeq Size: 13931 bp

RefSeq ORF: 9129 bp

Locus ID: 29808

UniProt ID: A2AWL7

Cytogenetics: 2 E5

Gene Summary: Functions as a dual-specificity transcription factor, regulating the expression of both MAX-network and T-box family target genes. Functions as a repressor or an activator. Binds to 5'-AATTTCACACCTAGGTGTGAAATT-3' core sequence and seems to regulate MYC-MAX target genes. Suppresses transcriptional activation by MYC and inhibits MYC-dependent cell transformation. Function activated by heterodimerization with MAX. This heterodimerization serves the dual function of both generating an E-box-binding heterodimer and simultaneously blocking interaction of a corepressor.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).