

Product datasheet for **SC105370**

MGA (BD078427) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MGA (BD078427) Human Untagged Clone
Tag:	Tag Free
Symbol:	MGA
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for BD078427, the custom clone sequence may differ by one or more nucleotides

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GAATTCGGCACGAGTTTACATCAGAAAAGAGCTGGAAGTCTTCTGCAATGAAGGAGAATCCTCTTCTAC
TTCTTATATGCATCARAGGTCACCTGGTGGTCCCACCAAAGTATTGAGATCATCTCAGACTGCAACTGG
GAGGAAGATCGGAACAAGATTTTRAGCATCTTATCCCAGCACATCAATAGCAACATGCCACAATCACTTA
AGGTGGCAGCTTCATCATTGAGTTGGCTTCTCAGCGAAAGAGCCGGGGTGAGAAGAACCCTCCTGTTTA
TTCTTCTCGTGTGAMAATCTCTATGCCATCATGTCAAGACCAAGATGATATGGCTGAGAAATCTGGATCA
GAGACTCCTGATGGTCCATTGTCCCCTGGGAAAATGGAGGATATCTCTCCTGTGCAGACAGATGCCCTGG
ATTCAGTGAGGGAGAGATTACATGGAGGCAAAGGTCTGCCTTTTTATGCAGGGCTTTCTCCTGCAGGGAA
GCTTGTGGCCTATAAACGTAACCCAGTTCAAGTACATCTGGGCTTATCCAGGTGAGAATTATCTTTAAT
CTGGGTATAGCACCTTTGTATACACCTAGGTAGTATCATGATTTTTTCAGAGCCCTTTATGGTCTGATAT
CCTTTATCTTGACATTTCTGGAACTGGGTGACAAAATTATTATCTCTTTTTGTAATAGGCCTAGTTTA
GATGCATACCTAGAGTGAATTTTTGTACATTTATGAACAGAAACGTAGAGCCTTGATTTAGTTTTAATT
TTCTTTCTAATCTTCCCAGAAAGTTGCTCTTCATAAACTTTATTGCTGCAGGCTCTAGTGATACTTTGA
CAATAAGCAAGGTAATCAGGGATTGCTCTAGCTCTTGAATTTATTATTAGCAGATAGGTTTCAAAA
CAAAACCATGGTTAGAACGGTAGGTGTAAGGGGAAGATGAAATTGACTTAAAGATAGGCAATATATGTTT
AGAAACTTGGGAAAAAAAAAAAAAAAAAACTCGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for BD078427 unedited CTATAGGGCGCCGCAATTCGGCACGAGGAAAGGAACCTGATTCTGAACAGCAGCCCTT AAAACAACCTCACCTGTGATTTGGAGGATGATTCTGATAAATTACAAGAAAAGAGCTGGAA GTCTTCTGCAATGAAGGAGAATCCTCTTCTACTTCTTATATGCATCAGAGGTCACCTGG TGGTCCCACCAAACTGATTGAGATCATCTCAGACTGCAACTGGGAGGAAGATCGGAACAA GATTTTGAGCATCTTATCCCAGCACATCAATAGCAACATGCCACAATCACTTAAGGTGGG CAGCTTCATCATTGAGTTGGCTTCTCAGCGAAAAGAGCCGGGGTGAGAAGAACCCTCTGT TTATTCTTCTCGTGAAAATCTCTATGCCATCATGTCAAGACCAAGATGATATGGCTGA GAAATCTGGATCAGAGACTCCTGATGGTCCATTGTCCCCTGGGAAAATGGAGGATATCTC TCCTGTGCAGACAGATGCCCTGGATTTCAGTGAGGGAGAGATTACATGGAGGCAAAGGTCT GCCTTTTTATGCAGGGCTTCTCCTGCGGGAAGCTTGTGGCCTATAAACGTAAACCCAGT TCAAGTACATCTGGGCTTATCCAGGTTAATGGTAAGAGTTACCCGCAGGCTAAGTTGCTA TTGGGACAGATGGGGCATTGCATCCAGCCAATAGGCTAGCTGCTTATATCACAGGCAGG TNGCGACCCTCAGTCCTGGACCTCTCAACCCTCAGTACTGTCATCTNCAAGGTAGCATCC ATGGCCAGGNTGGNCTGCATCAGAAACACGTACCCTGNTGCCTTACATNNCATNCAAT GGCATNNCTCTTGGCCTGCACAAATCGCCTGGGAGATCTGAAGGCCGTTGTGAGCAAAC GGNCATG
Restriction Sites:	NotI-NotI
ACCN:	BD078427
Insert Size:	4500 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:	<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:	<u>BD078427.1</u>
RefSeq Size:	1014 bp
RefSeq ORF:	1014 bp
Locus ID:	23269
Cytogenetics:	15q15.1

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'-AATTCACACCTAGGTGTGAAATT-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 (By similarity).[UniProtKB/Swiss-Prot Function]