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Product datasheet for RC211057

MAX binding protein (MNT) (NM_020310) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAX binding protein (MNT) (NM_020310) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAX binding protein
Synonyms:	bHLHd3; lncRNA-HAL; MAD6; MXD6; ROX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC211057 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCATAGAGACGCTACTGGAGGCGGCCCGCTTCCTGGAATGGCAAGCGCAGCAACAACAGAGAGCAC
GTGAGGAGCAGGAGCGGCTTCGCTTGGAGCAGGAGCGAGAGCAGGAACAGAAGAAGGCCAATAGCCTGGC
CAGGCTGGCACATACCCTTCCTGTGGAGGAACCCCGCATGGAGGCGCCACCCCTGCCTCTGTCTCCACCG
GCTCCCCCGCCGGCACCCCCACCACCACTTGCCACCCCTGCCCCACTGACTGTCATCCCTATCCCTGTGG
TGACCAACTCCCCTCAGCCTCTACCCCCACCCCCACCCTTGCCCGCGGCAGCCCAGCCTCTGCCCCTGGC
GCCTCGTCAGCCGGCCCTGGTTGGCGCCCCCGGACTCAGCATTAAGGAGCCTGCCCCCCTGCCCAGCAGG
CCGCAGGTGCCCACCCCTGCTCCCCTACTGCCGGACTCGAAGGCCACCATTCCACCCAATGGCAGCCCCA
AGCCTTTGCAGCCCCTCCCCACGCCTGTCCTGACCATAGCGCCACACCCTGGAGTCCAGCCTCAGCTGGC
CCCCCAGCAGCCGCCCCCACCCACGCTGGGGACCCTGAAGTTGGCACCAGCTGAAGAAGTCAAATCCAGT
GAACAGAAGAAGAGGCCCGGGGGGATCGGAACCAGAGAAGTCCACAACAAATTGGAGAAGAACAGGAGGG
CCCATCTGAAAGAGTGCTTTGAGACCCTGAAGCGGAACATCCCCAACGTGGATGACAAGAAGACGTCCAA
TCTGAGCGTGCTGCGGACGGCGCTGCGGTACATCCAGTCCCTGAAGAGGAAGGAGAAGGAATATGAGCAT
GAAATGGAGCGGCTGGCACGTGAGAAGATTGCCACGCAGCAGCGGCTGGCAGAGCTCAAGCACGAGCTGA
GCCAGTGGATGGACGTACTGGAGATTGACCGCGTGCTGCGGCAGACGGGCCAGCCCGAGGATGACCAGGC
CTCCACCTCCACCGCCTCTGAGGGTGAGGACAACATAGACGAGGATATGGAGGAGGACCGGGCGGGCCTG
GGCCCACCTAAGCTGAGCCATCGTCCCCAGCCGGAGCTGCTGAAGTCCACCCTGCCACCCCCCAGCACCA
CCCCTGCGCCTCTGCCTCCACACCCACACCCTCACCCCCACTCCGTGGCCCTACCTCCTGCCCACCTCCC
CGTGCAGCAGCAGCAGCCACAGCAGAAGACCCCTCTGCCAGCCCCTCCTCCCCCACCGGCTGCCCCTGCC
CAGACACTGGTGCCAGCTCCAGCCCATCTGGTGGCGACGGCTGGGGGTGGCTCCACGGTCATCGCCCACA
CAGCCACCACTCACGCTTCAGTCATCCAGACTGTGAACCACGTTCTGCAGGGGCCAGGCGGCAAGCACAT
CGCCCACATCGCCCCCTCGGCCCCCAGCCCTGCGGTGCAACTGGCGCCTGCCACACCCCCCATTGGGCAC
ATCACTGTGCACCCTGCCACCCTCAACCATGTGGCCCACCTGGGCTCCCAGCTGCCCTTGTACCCGCAGC
CCGTGGCAGTGAGCCACATCGCCCACACCCTCTCGCACCAGCAAGTCAACGGCACGGCCGGCCTGGGGCC
CCCGGCTACTGTCATGGCAAAGCCGGCCGTGGGGGCTCAGGTGGTGCACCACCCCCAGCTGGTGGCCAG
ACCGTGCTCAACCCTGTGACCATGGTCACCATGCCCTCCTTCCCAGTCAGCACACTCAAGCTGGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

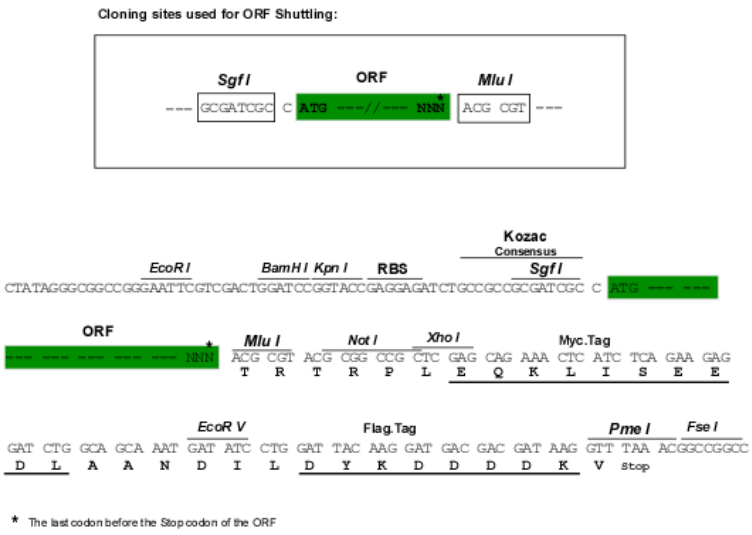
>RC211057 protein sequence
Red=Cloning site Green=Tags(s)

MSIETLLEAARFLEWQAQQQQRAREEQERLRLEQEREQEQKKANSLARLAHTLPVEEPRMEAPPLPLSPP
APPPAPPPPLATPAPLTVIPIPVVTNSPQPLPPPPPLPAAAQPLPLAPRQPALVGAPGLSIKEPAPLPSR
PQVPTPAPLLPDSKATIPPNGSPKPLQPLPTPVLTIAPHPGVQPQLAPQQPPPPTLGTLKLAPAEEVKSS
EQKKRPGGIGTREVHNKLEKNRRAHLKECFETLKRNIPNVDDKKTSNLSVLRTALRYIQSLKRKEKEYEH
EMERLAREKIATQQRLAELKHELSQWMDVLEIDRVLRQTGQPEDDQASTSTASEGEDNIDEDMEEDRAGL
GPPKLSHRPQPELLKSTLPPPSTTPAPLPPHPHPHPHSVALPPAHLPVQQQQPQQKTPLPAPPPPPAAPA
QTLVPAPAHLVATAGGGSTVIAHTATTHASVIQTVNHVLQGPGGKHIAHIAPSAPSPAVQLAPATPPIGH
ITVHPATLNHVAHLGSQLPLYPQPVAVSHIAHTLSHQQVNGTAGLGPPATVMAKPAVGAQVVHHPQLVGQ
TVLNPVTMVTMPSFPVSTLKLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020310

ORF Size: 1746 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

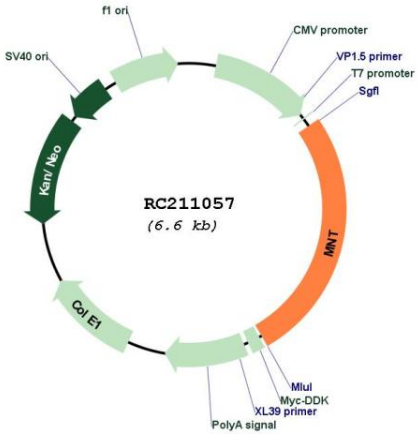
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_020310.3
RefSeq Size:	4865 bp
RefSeq ORF:	1749 bp
Locus ID:	4335
UniProt ID:	Q99583
Cytogenetics:	17p13.3
MW:	62.3 kDa
Gene Summary:	The Myc/Max/Mad network comprises a group of transcription factors that co-interact to regulate gene-specific transcriptional activation or repression. This gene encodes a protein member of the Myc/Max/Mad network. This protein has a basic-Helix-Loop-Helix-zipper domain (bHLHzip) with which it binds the canonical DNA sequence CANNTG, known as the E box, following heterodimerization with Max proteins. This protein is likely a transcriptional repressor and an antagonist of Myc-dependent transcriptional activation and cell growth. This protein represses transcription by binding to DNA binding proteins at its N-terminal Sin3-interaction domain. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC211057