

Product datasheet for **MG224686**

Max (NM_001146176) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Max (NM_001146176) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Max
Synonyms: AA960152; AI875693; bHLHd4; bHLHd5; bHLHd6; bHLHd7; bHLHd8
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG224686 representing NM_001146176
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGATAACGATGACATCGAGGTGGAGAGCGACGCTGACAAGCGGGCTCACCATAATGCACTGGAAC
GAAAACGTAGGGACCACATCAAAGACAGCTTTCACAGTTTGCGGGACTCAGTCCCATCACTCCAAGGAGA
GAAGGCATCCCGGGCCAAATCCTAGACAAAGCAACAGAGTATATCCAGTATATGCGAAGGAAAAACCAT
ACGCACCAGCAAGACATTGATGACCTCAAGCGGCAGAATGCTCTTCTGGAGCAACAAGTCCGTGCACTGG
AGAAGGCAAGATCAAGTGCCCACTGCAGACCACTACCCTCCTCAGACAACAGCCTCTACACCAACGC
CAAGGGCGGCACCATCTCTGCCTTCGATGGGGTTTCAGACTCCAGCTCAGAATCCGAGCCTGAAGAGCCC
CAGAGCAGGAAGAACTCCGGATGGAGGCCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224686 representing NM_001146176
Red=Cloning site Green=Tags(s)

MSDNDIEVESDADKRAHHNALERKRRDHKDSFHSLRDSVPSLQGEKASRAQILDKATEYIQYMRKKNH
THQQDIDDLKRQNALLEQQVRALEKARSSAQLQTNYPSSDNSLYTNAKGGTISAFDGGSDSSSESEPEEP
QSRKKLRMEAS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

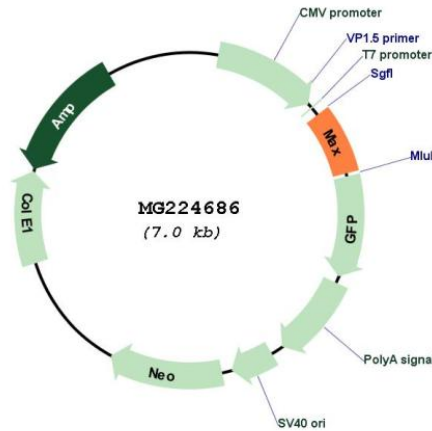


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001146176

ORF Size: 453 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.

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|-------------------------------|---|
| 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>NM_001146176.1, NP_001139648.1</u> |
| RefSeq Size: | 1978 bp |
| RefSeq ORF: | 456 bp |
| Locus ID: | 17187 |
| UniProt ID: | <u>P28574</u> |
| Cytogenetics: | 12 33.78 cM |
| Gene Summary: | Transcription regulator. Forms a sequence-specific DNA-binding protein complex with MYC or MAD which recognizes the core sequence 5'-CAC[GA]TG-3'. The MYC:MAX complex is a transcriptional activator, whereas the MAD:MAX complex is a repressor. CpG methylation of the recognition site greatly inhibits DNA binding, suggesting that DNA methylation may regulate the MYC:MAX complex in vivo. May repress transcription via the recruitment of a chromatin remodeling complex containing H3 'Lys-9' histone methyltransferase activity. Represses MYC transcriptional activity from E-box elements (By similarity).[UniProtKB/Swiss-Prot Function] |