

Product datasheet for **RG202332**

MXII (NM_001008541) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: MXII
Synonyms: bHLHc11; MAD2; MXD2; MXI
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG202332 representing NM_001008541
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGAGCCCCGACTGCAGCATTCAAAGCCCCCACGGAGTTGAGCCGGGCACAGAAACACAGCAGCG
GGAGCAGCAACACCAGCACTGCCAACAGACGAGCTCATCTGCGCCTTTGTTTAGAACGCTTAAAAGTTCT
GATTCCACTAGGACCAGACTGCACCCGGCACACAACACTTGGTTTGCTCAACAAAGCCAAAGCACACATC
AAGAACTTGAAGAAGCTGAAAGAAAAGCCAGCACCAGCTCGAGAATTTGGAACGAGAACAGAGATTTT
TAAAGTGCGGACTGGAACAGCTGCAGGGTCTCAGGAGATGGAACGAATACGAATGGACAGCATTGGATC
AACTATTTCTTCAGATCGTTCTGATTCAGAGCGAGAGGAGATTGAAGTGGATGTTGAAAGCACAGAGTTC
TCCCATGGAGAAGTGGACAATATAAGTACCACCAGCATCAGTGACATTGATGACCACAGCAGCCTGCCGA
GTATTGGGAGTGACGAGGGTTACTCCAGTGCCAGTGCAAACCTTTCACTTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202332 representing NM_001008541
Red=Cloning site Green=Tags(s)

MSPRLQHSKPPRRLSRAQKHSSGSSNTSTANRRHLRLCLERLKVLIPLGPDCTRHTTLGLLNKAKAHI
KKLEEAERKSQHLENLEREQRFLEQLEQLQGPQEMERIMDSIGSTISSDRSDSEREEIEVDVESTEF
SHGEVDNISTTSISDIDDHSSLPSIGSDEGYSSASVKLSFTS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_001008541

ORF Size: 546 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001008541.1](#), [NP_001008541.1](#)

RefSeq Size: 3047 bp

RefSeq ORF: 549 bp

Locus ID: 4601

UniProt ID: [P50539](#)

Cytogenetics: 10q25.2

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: 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]

Product images:



Circular map for RG202332