

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 Neomycin

Selection:

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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCCGAGCCCCGACTGCAGCATTCAAAGCCCCCACGGAGGTTGAGCCGGGCACAGAAACACAGCAGCG
GGAGCAGCAACACCAGCACTGCCAACAGACGAGCTCATCTGCGCCTTTGTTTAGAACGCTTAAAAGTTCT
GATTCCACTAGGACCAGACTGCACCCGGCACAACACTTGGTTTGCTCAACAAAGCCAAAGCACACATC
AAGAAACTTGAAGAAGCTGAAAGAAAAAGCCAGCACCAGCTCGAGAATTTGGAACGAGAACAGCAGCATTTT
TAAAGTGGCGACTGGAACAGCTGCAGGGTCCTCAGGAGATGGAACGAATACGAATGGACAGCATTGGATC
AACTATTTCTTCAGATCGTTCTGATTCAGAGCGAGAGGAGATTGAAGTGGATGTTGAAAGCACAGAGTTC
TCCCATGGAGAAGTGGACAATATAAGTACCACCAGCATCAGTGACATTGATGACCACAGCAGCACCGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202332 representing NM_001008541

Red=Cloning site Green=Tags(s)

MPSPRLQHSKPPRRLSRAQKHSSGSSNTSTANRRAHLRLCLERLKVLIPLGPDCTRHTTLGLLNKAKAHI KKLEEAERKSQHQLENLEREQRFLKWRLEQLQGPQEMERIRMDSIGSTISSDRSDSEREEIEVDVESTEF

SHGEVDNISTTSISDIDDHSSLPSIGSDEGYSSASVKLSFTS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



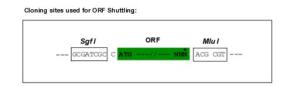
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

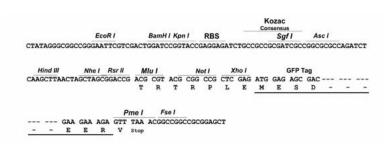
Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com

EU: info-de@origene.com CN: techsupport@origene.cn



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: <u>NM_001008541.1</u>, <u>NP_001008541.1</u>

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RefSeq Size: 3047 bp

RefSeq ORF: 549 bp

Locus ID: 4601

UniProt ID: P50539

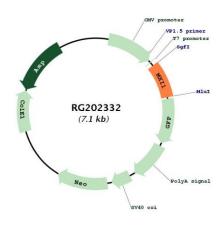
Cytogenetics: 10q25.2

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