

Product datasheet for **RG200747**

MAD3 (MXD3) (NM_031300) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MAD3 (MXD3) (NM_031300) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MAD3
Synonyms: BHLHC13; MAD3; MYX
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200747 representing NM_031300
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAACCCTTGCCAGCAACATCCAGGTCCTGCTGCAGGCGCCGAGTTCCTGGAGCGCCGTGAGAGAG
 AGGCCGAGCATGGTTATGCGTCCCTGTGCCGCATCGCAGTCCAGGCCCATCCACAGGAGGAAGAAGCG
 ACCCCCCAGGCTCCTGGCGCGCAGGACAGCGGGCGTCACTGCACAATGAACTGGAGAAGCGCAGGAGG
 GCCCAGTTGAAGCGGTGCTGGAGCGGCTGAAGCAGCAGATGCCCTGGGGCCGACTGTCCCGGTACA
 CCACGCTGAGCCTGCTGCGCCGTGCCAGGATGCACATCCAGAAGCTGGAGGATCAGGAGCAGCGGGCCCG
 ACAGCTCAAGGAGAGGCTGCGCAGCAAGCAGCAGAGCCTGCAGCGGCAGCTGGAGCAGCTCCGGGGGCTG
 GCAGGGGCGGCCGAGCGGAGCGGCTGCGGGCGGACAGTCTGGACTCCTCAGGCCTCCTCTGAGCGCT
 CAGACTCAGACCAAGAGGAGCTGGAGGTGGATGTGGAGAGCCTGGTGTGGGGGTGAGGCCGAGCTGCT
 GCGGGGCTTCGTCGCGGCCAGGAGCACAGCTACTCGCACGGCGGCGCCCTGGCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200747 representing NM_031300
 Red=Cloning site Green=Tags(s)

MEPLASNIQVLLQAAEFLERREREAHEGYASLCPHRSPGPIHRRKKRPPQAPGAQDSGRSVHNELEKRRR
 AQLKRCLERLKQMPGADLCARYTTL SLLRRARMHIQKLEDQEQRARQLKERLSKQQSLQRQLEQLRGL
 AGAAERERLRADSLDSSGLSSERSDSDQEELVDVESLVFGGEAELLRGFVAGQEHSYSHGGGAWL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_031300

ORF Size: 618 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.

RefSeq: [NM_031300.4](#)

RefSeq Size: 1082 bp

RefSeq ORF: 621 bp

Locus ID: 83463

UniProt ID: [Q9BW11](#)

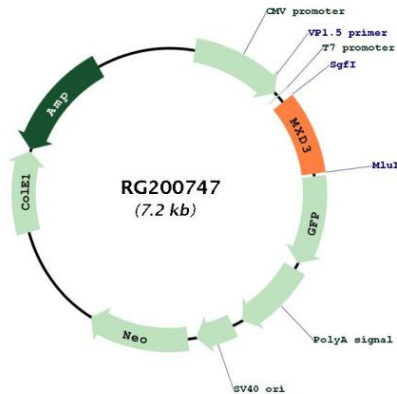
Cytogenetics: 5q35.3

Domains: HLH

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes a member of the Myc superfamily of basic helix-loop-helix leucine zipper transcriptional regulators. The encoded protein forms a heterodimer with the cofactor MAX which binds specific E-box DNA motifs in the promoters of target genes and regulates their transcription. Disruption of the MAX-MXD3 complex is associated with uncontrolled cell proliferation and tumorigenesis. Transcript variants of this gene encoding different isoforms have been described.[provided by RefSeq, Dec 2008]

Product images:



Circular map for RG200747