

## Product datasheet for **RC227362**

### **MAD3 (MXD3) (NM\_001142935) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAD3 (MXD3) (NM_001142935) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAD3
Synonyms:	BHLHC13; MAD3; MYX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC227362 representing NM_001142935 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACCTTGGCCAGCAACATCCAGGTCTGCTGCAGGCGGCCGAGTTCCTGGAGCGCCGTGAGAGAG  
AGGCCGAGCATGGTTATGCGTCCCTGTGCCCGCATCGAGTCCAGGCCCATCCACAGGAGGAAGAAGCG  
ACCCCCCAGGCTCCTGGCGCGCAGGACAGCGGCGGTCACTGCACAATGAAGTGGAGAAGCGCAGGAGG  
GCCAGTTGAAGCGGTGCTGGAGCGGTGAAGCAGCAGATGCCCTGGGGGCCGACTGTGCCCGGTACA  
CCACGCTGAGCCTGCTGCGCCGTGCCAGGATGCACATCCAGAAGCTGGAGGATCAGGAGCAGCGGCCCG  
ACAGCTCAAGGAGAGGCTGCGCAGCAAGCAGCAGAGCCTGCAGCGGCAGCTGGAGCAGCTCCGGGGGCTG  
GCAGGGGCGGCCGAGCGGAGCGGCTGCGGGCGGACAGTCTGGACTCCTCAGGCCTCTCCTCTGAGCGCT  
CAGACTCAGACCAAGTCTTGCCTAATGAAAACGGGGGAATCCCAACCACAGACCACTGGAAGAGGAAA  
TAATATCAGTTCCCATCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC227362 representing NM_001142935 Red=Cloning site Green=Tags(s)
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MEPLASNIQVLLQAAEFLERREREAEHGYASLCPHRSPGPIHRRKKRPPQAPGAQDSGRSVHNELEKRRR  
AQLKRCLERLKQMP LGAD CARYTTL SLLRRARMHIQKLEDQEQRARQLKERLR SKQQLRQLEQLRGL  
AGAAERERLRADSLDSSGLSSERSDSQVLPNENGGTPNHRPTGRGNNISSHH

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**



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**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1452\\_g02.zip](https://cdn.origene.com/chromatograms/ja1452_g02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001142935

**ORF Size:** 579 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.

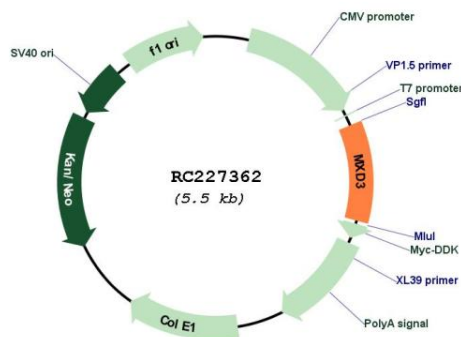
**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001142935.2](#)

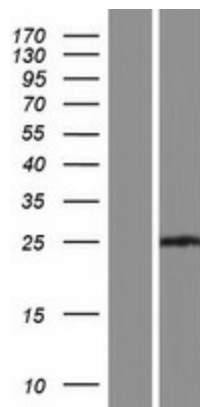
**RefSeq ORF:** 582 bp

Locus ID:	83463
UniProt ID:	<a href="#">Q9BW11</a>
Cytogenetics:	5q35.3
Protein Families:	Druggable Genome, Transcription Factors
MW:	21.9 kDa
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 RC227362



Western blot validation of overexpression lysate (Cat# [LY428302]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227362 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).