

Product datasheet for MR202172

Mxd3 (NM_016662) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mxd3 (NM_016662) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mxd3
Synonyms: 4631412E13Rik; bHLHc13; Mad3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202172 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAACCCGTGGCTAGCAACATCCAGGTCTGCTGCAGGCAGCGGAGTTCCTGGAGAGGCGGAGAGAG
 AGGCAGAGCACGGTTATGCGTCCCTGTGTCCACACCACAGCCCCGGGACCGTCTGCAGGAGGAGGAAGCC
 ACCCTGCAAGCTCCTGGCGGCTGAACAGTGGCGGTCTGTGCACAACGAGCTGGAGAAGCGCAGGAGA
 GCCCAGCTGAAGCGGTGCTTAGAGCAACTGAGGCAGCAGATGCCCTGGGAGTTGACTGTACCCGATACA
 CTACACTAAGCCTCCTGCGCCGGCCAGGGTGCATATCCAGAAGCTGGAGGAGCAGGAGCAGCAAGCCG
 GCGGCTCAAGGAAAAGCTTCGCAGCAAACAGCAGAGCCTGCAGCAGCAGCTGGAGCAGCTCCAGGGGCTG
 CCAGGAGCTAGGGAGCGAGAGCGGCTGAGGGCAGACAGCTTGGACTCTTCAGGCCTGTCTCTGAGCGCT
 CAGACTCAGACCAAGAGGATCTGGAGGTGGATGTGGAGAGCCTGGTGTGGGACTGAAACAGAGCTCCT
 ACAGAGCTTCAGCGCTGGGCGGGAGCACAGCTACTCACACAGCACCTGCGCCTGGCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202172 protein sequence
 Red=Cloning site Green=Tags(s)

MEPVASNIQVLLQAAEFLERREREAHGYASLCPHHSPGTVCRRRKPPLQAPGALNSGRSVHNELEKRRR
 AQLKRCLEQLRQQMPLGVDCTRYTTL SLLRRARVHIQKLEEQEQARRLKEKLRKQQLQQLQGL
 PGARERERLRADSLDSSGLSSERSDSQEDLEVDVESLVFGTETELLQSF SAGREHSYSHSTCAWL

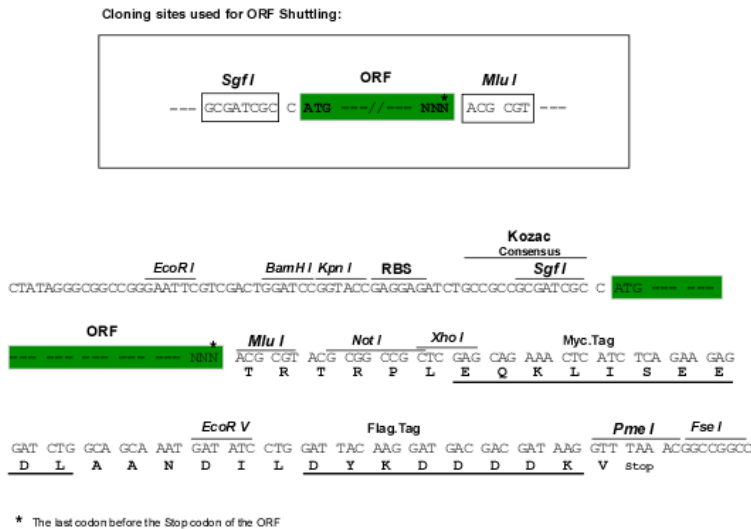
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016662

ORF Size: 621 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_016662.5](#)

RefSeq Size: 1299 bp

RefSeq ORF: 621 bp

Locus ID: 17121

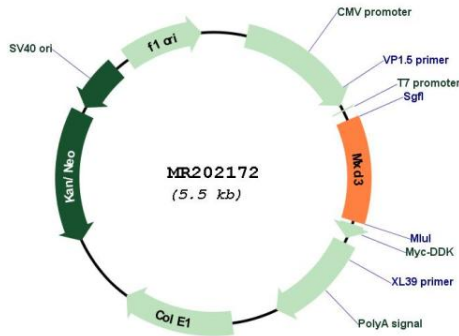
UniProt ID: [Q80US8](#)

Cytogenetics: 13 29.8 cM

MW: 23.6 kDa

Gene Summary: Transcriptional repressor. Binds with MAX to form a sequence-specific DNA-binding protein complex which recognizes the core sequence 5'-CAC[GA]TG-3'. Antagonizes MYC transcriptional activity by competing for MAX and suppresses MYC dependent cell transformation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202172