

## Product datasheet for **MR200792**

### Id2 (NM\_010496) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Id2 (NM\_010496) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Id2  
**Synonyms:** AI255428; bHLHb26; C78922; Idb2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR200792 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAAGCCTTCAGTCCGGTGAGGTCCGTTAGGAAAAACAGCCTGTCGGACCACAGCTTGGGCATCTCCC  
GGAGCAAAACCCCGGTGGACGACCCGATGAGTCTGCTCTACAACATGAACGACTGCTACTCCAAGCTCAA  
GGAAGTGGTGCCAGCATCCCCAGAACAAGAAGGTGACCAAGATGAAATCCTGCAGCACGTATCGAT  
TACATCTTGGACCTGCAGATCGCCCTGGACTCGCATCCCACTATCGTCAGCCTGCATCACCAGAGACCTG  
GACAGAACCGGCGTCCAGGACGCGCTGACCACCCTGAACACGGACATCAGCATCCTGTCCTTGCAGGC  
ATCTGAATTCCTTCTGAGCTTATGTGAATGATAGCAAAGTACTCTGTGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR200792 protein sequence  
Red=Cloning site Green=Tags(s)  
  
MKAFSPVRSVRKNSLSDHSLGISRSKTPVDDPMSLLYNMNDCYSKLKLVPISIPQNKVKTKMEILQHVID  
YILDQLIALDSHTIIVSLHHQRPQGNQASRTPLTTLNTDISILSLQASEFPSELSMSNDSKVLGG  
  
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_010496

**ORF Size:** 402 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.

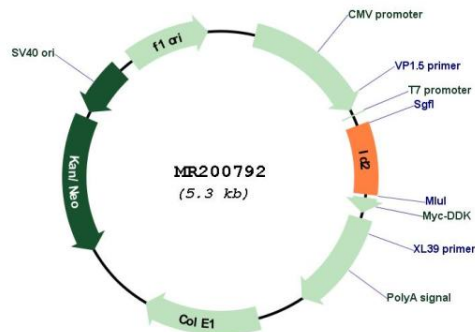
**RefSeq:** [NM\\_010496.3](#), [NP\\_034626.1](#)

**RefSeq Size:** 1289 bp

RefSeq ORF: 405 bp  
 Locus ID: 15902  
 UniProt ID: [P41136](#)  
 Cytogenetics: 12 8.57 cM  
 MW: 15 kDa

**Gene Summary:** Transcriptional regulator (lacking a basic DNA binding domain) which negatively regulates the basic helix-loop-helix (bHLH) transcription factors by forming heterodimers and inhibiting their DNA binding and transcriptional activity. Implicated in regulating a variety of cellular processes, including cellular growth, senescence, differentiation, apoptosis, angiogenesis, and neoplastic transformation. Inhibits skeletal muscle and cardiac myocyte differentiation. Regulates the circadian clock by repressing the transcriptional activator activity of the CLOCK-ARNTL/BMAL1 heterodimer. Restricts the CLOCK and ARNTL/BMAL1 localization to the cytoplasm. Plays a role in both the input and output pathways of the circadian clock: in the input component, is involved in modulating the magnitude of photic entrainment and in the output component, contributes to the regulation of a variety of liver clock-controlled genes involved in lipid metabolism.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR200792