

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: A1255428; 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
GGAGCAAACCCCGTGGACGCCGATGAGTCTGCTCTACAACATGAACGACTGCTACTCCAAGCTCAA
GGAAGTGGTGCCAGCATCCCCAGAACAAGAAGGTGACCAAGATGAAATCCTGCAGCACGTCATCGAT
TACATCTGGACCTGCAGATCGCCCTGGACTCGCATCCCACTATCGTCAGCCTGCATCACCAGAGACCTG
GACAGAACCAGGCGTCCAGGACCGCTGACCACCTGAACACGGACATCAGCATCTGCTTGCAGGC
ATCTGAATTCCTTCTGAGCTTATGTGAATGATAGCAAAGTACTCTGTGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200792 protein sequence
Red=Cloning site Green=Tags(s)
MKAFSPVRSVRKNSLSDHSLGISRSKTPVDDPMSLLYNMNDYCYSKLKELVPSIPQNKVTKMEILQHVID
YILDQLIALDSHPTIVSLHHQRPGQNQASRTPLTTLNTDISILSLQASEFPSELSMNSDKVLGG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_010496

ORF Size: 405 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_010496.3](#), [NP_034626.1](#)

RefSeq Size: 1289 bp

RefSeq ORF: 405 bp

Locus ID: 15902

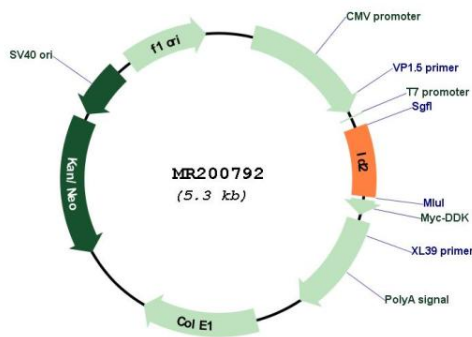
UniProt ID: [P41136](#)

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