

Product datasheet for **MG200792**

Id2 (NM_010496) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Id2 (NM_010496) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Id2
Synonyms: A1255428; bHLHb26; C78922; Idb2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200792 representing NM_010496
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAAGCCTTCAGTCCGGTGAGGTCCGTTAGGAAAAACAGCCTGTCGGACCACAGCTTGGGCATCTCCC
 GGAGCAAACCCCGGTGGACGCCGATGAGTCTGCTCTACAACATGAACGACTGCTACTCCAAGCTCAA
 GGAAGTGGTGCCAGCATCCCCAGAACAAGAAGGTGACCAAGATGAAATCCTGCAGCACGTCATCGAT
 TACATCTGGACCTGCAGATCGCCCTGGACTCGCATCCCACTATCGTCAGCCTGCATCACCAGAGACCTG
 GACAGAACCAGGCGTCCAGGACCGCTGACCACCTGAACACGGACATCAGCATCTGCTTGCAGGC
 ATCTGAATTCCTTCTGAGCTTATGTGAATGATAGCAAAGTACTCTGTGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200792 representing NM_010496
 Red=Cloning site Green=Tags(s)

MKAFSPVRSVRKNSLSDHSLGISRSKTPVDDPMSLLYNMNDYCYSKLKELVPSIPQNKVTKMEILQHVID
 YILDQLIALDSHPTIVSLHHQRPQGNQASRTPLTTLNTDISILSLQASEFPSELMNSDKVLCG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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:	<ol style="list-style-type: none">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:	1280 bp
RefSeq ORF:	405 bp
Locus ID:	15902
UniProt ID:	P41136
Cytogenetics:	12 8.57 cM
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]