

Product datasheet for MR227292

Id3 (NM_008321) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Id3 (NM_008321) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Id3
Synonyms: bHLHb25; Hlh462; Idb3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR227292 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGCGCTGAGCCCGGTGCGCGGCTGCTACGAGGCGGTGTGCTGCCTGTCGGAACGTAGCCTGGCCA
TTGCGCGAGGCCGCGTAAGAGCCCGTCGACCGAGGAGCCTTTAGCCTTTGGACGACATGAACCACTG
CTACTCGCGCTGCGGAACTGGTGCCGGGAGTCCCGCGAGGCACTCAGCTTAGCCAGGTGAAATCCTG
CAGCGTGTACACTACATCCTCGACCTCAGGTGGTCTTGGCAGAGCCGGCGCCTGGACCCCGGACG
GTCCGCATCTCCGATCCAGACAGCTGAGCTCACTCCGAACTTGTGATCTCCAAGGACAAGAGGAGCTT
TTGCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227292 protein sequence
Red=Cloning site Green=Tags(s)

MKALSPVRGCYEAVCCLSERSLAIARGRGKSPSTEEPLSLDDMNHCYSRLRELVPVPRGTQLSQVEIL
QRVIDYILDQLVLAEPAPGPPDPHPLPIQTAELTPELVISKDKRSFCH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_008321

ORF Size: 360 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_008321.2](#), [NP_032347.1](#)

RefSeq Size: 964 bp

RefSeq ORF: 360 bp

Locus ID: 15903

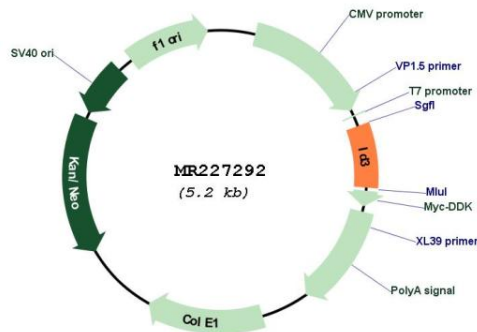
UniProt ID: [P41133](#)

Cytogenetics: 4 68.34 cM

MW: 13.1 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. Involved in myogenesis by inhibiting skeletal muscle and cardiac myocyte differentiation and promoting muscle precursor cells proliferation. Inhibits the binding of E2A-containing protein complexes to muscle creatine kinase E-box enhancer. Regulates the circadian clock by repressing the transcriptional activator activity of the CLOCK-ARNTL/BMAL1 heterodimer.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227292