

Product datasheet for MG227292

Id3 (NM_008321) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Id3 (NM 008321) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Id3

Synonyms: bHLHb25; Hlh462; Idb3

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG227292 representing NM_008321

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGAAGGCGCTGAGCCCGGTGCGCGGCTGCTACGAGGCGGTGTGCTGCCTGTCGGAACGTAGCCTGGCCA
TTGCGCGAGGCCGCGGTAAGAGCCCGTCGACCGAGGAGCCTCTTAGCCTCTTGGACGACATGAACCACTG
CTACTCGCGCCTGCGGGAACTGGTGCCGGGAGTCCCGCGAGGCACTCAGCTTAGCCAGGTGGAAATCCTG
CAGCGTGTCATAGACTACATCCTCGACCTTCAGGTGGTCCTGGCAGAGCCGGCGCCTGGACCCCCGGACG
GTCCGCATCTCCCGATCCAGACAGCTGAGCTCACTCCCGGAACTTGTGATCTCCAAGGACAAGAGGAGCTT

TTGCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG227292 representing NM_008321

Red=Cloning site Green=Tags(s)

MKALSPVRGCYEAVCCLSERSLAIARGRGKSPSTEEPLSLLDDMNHCYSRLRELVPGVPRGTQLSQVEIL

QRVIDYILDLQVVLAEPAPGPPDGPHLPIQTAELTPELVISKDKRSFCH

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



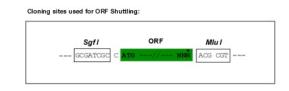
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

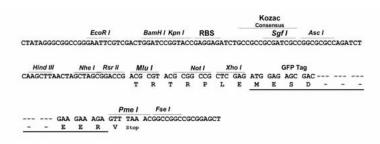
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

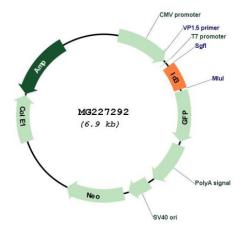


Cloning Scheme:





Plasmid Map:



ACCN: NM_008321

ORF Size: 357 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

ORÏGENE

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: <u>NM 008321.2</u>, <u>NP 032347.1</u>

 RefSeq Size:
 964 bp

 RefSeq ORF:
 360 bp

 Locus ID:
 15903

 UniProt ID:
 P41133

 Cytogenetics:
 4 68.34 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. 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]