

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; ldb3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG227292 representing NM_008321
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGCGCTGAGCCCGGTGCGCGGCTGCTACGAGGCGGTGTGCTGCCTGTCGGAACGTAGCCTGGCCA
TTGCGCGAGGCCGCGGTAAAGAGCCCGTCGACCGAGGAGCCTTTAGCCTTTGGACGACATGAACCACTG
CTACTCGCGCCTGCGGAACTGGTGCCGGGAGTCCCGCGAGGCACTCAGCTTAGCCAGGTGAAATCCTG
CAGCGTGCATAGACTACATCCTCGACCTCAGGTGGTCTTGGCAGAGCCGGCGCCTGGACCCCGGACG
GTCCGCATCTCCGATCCAGACAGCTGAGCTCACTCCGGAACCTGTGATCTCCAAGGACAAGAGGAGCTT
TTGCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG227292 representing NM_008321
Red=Cloning site Green=Tags(s)
MKALSPVRGCYEAVCCLSERSLAIARGRKSPSTEEPLSLDDMNHCSRLRELVPGVPRGTQLSQVEIL
QRVIDYILDQLVLAEPAPGPPDPHLPITAEITPELVISKDKRSFCH

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_008321.2 , NP_032347.1
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]