

Product datasheet for **RG201301**

DDIT3 (NM_004083) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DDIT3 (NM_004083) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: DDIT3
Synonyms: AltDDIT3; C/EBPzeta; CEBPZ; CHOP; CHOP-10; CHOP10; GADD153
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201301 representing NM_004083
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGCTGAGTCATTGCCTTCTCCTTTGGGACTGTCCAGCTGGGAGCTGGAAGCCTGGTATGAGG
 ACCTGCAAGAGGTCCTGTCTTCAGATGAAAATGGGGTACCTATGTTTCACCTCTGGAAATGAAGAGGA
 AGAATCAAAAATCTTCACACTCTTGACCCTGCTTCTCTGGCTTGGCTGACTGAGGAGGACCCAGAACCA
 GCAGAGGTCACAAGCACCTCCAGAGCCCTCACTCTCCAGATCCAGTCAGAGCTCCCTGGCTCAGGAGG
 AAGAGGAGGAAGACCAAGGGAGAACCAGGAAACGAAACAGAGTGGTCATTCCCCAGCCGGGCTGGAAA
 GCAGCGCATGAAGGAGAAAGAACAGGAGAATGAAAGGAAAGTGGCACAGCTAGCTGAAGAGAATGAACGG
 CTCAAGCAGGAAATCGAGCGCCTGACCAGGGAAGTAGAGGCGACTCGCCGAGCTCTGATTGACCGAATGG
 TGAATCTGCACCAAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201301 representing NM_004083
 Red=Cloning site Green=Tags(s)

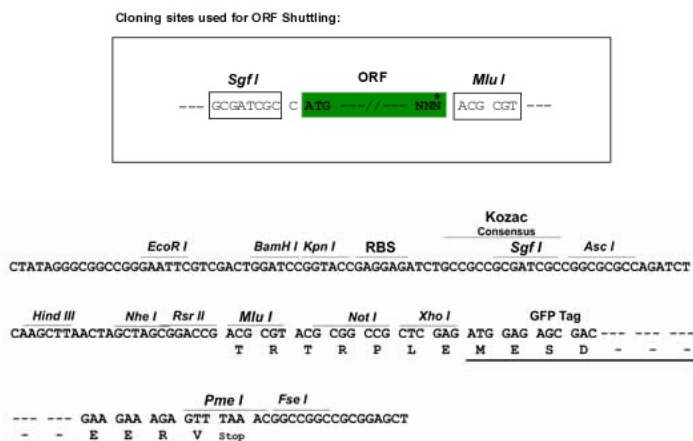
MAESLPFSFGTLSSWELEAWYEDLQEVLSSENGGTYVSPPGNEEEESKIFTTLDPASLAWLTEEEPEP
 AEVTSTSQSPHSPDSSQSSLAQEEEEEDQGRTRKRKQSGHSPARAGKQRMKEKEQENERKVAQLAEENER
 LKQEIERTREVEATRRALIDRMVNLHQA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_004083

ORF Size: 507 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_004083.3](#)

RefSeq Size: 927 bp

RefSeq ORF: 510 bp

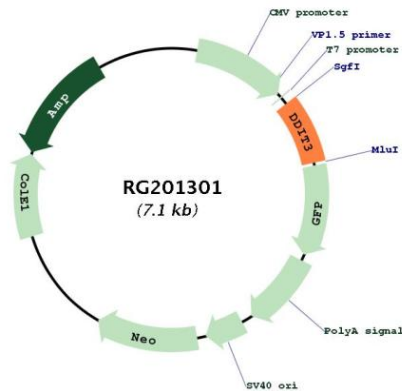
Locus ID: 1649

UniProt ID: [P35638](#)

Cytogenetics: 12q13.3
Domains: BRLZ
Protein Families: Druggable Genome, Transcription Factors
Protein Pathways: MAPK signaling pathway
Gene Summary:

This gene encodes a member of the CCAAT/enhancer-binding protein (C/EBP) family of transcription factors. The protein functions as a dominant-negative inhibitor by forming heterodimers with other C/EBP members, such as C/EBP and LAP (liver activator protein), and preventing their DNA binding activity. The protein is implicated in adipogenesis and erythropoiesis, is activated by endoplasmic reticulum stress, and promotes apoptosis. Fusion of this gene and FUS on chromosome 16 or EWSR1 on chromosome 22 induced by translocation generates chimeric proteins in myxoid liposarcomas or Ewing sarcoma. Multiple alternatively spliced transcript variants encoding two isoforms with different length have been identified. [provided by RefSeq, Aug 2010]

Product images:



Circular map for RG201301