

## Product datasheet for **RG231040**

### DDIT3 (NM\_001195053) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DDIT3 (NM\_001195053) 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:** >RG231040 representing NM\_001195053  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGCTTGTTCCAGCCACTCCCCATTATCCTGCAGATGTGCTTTCCAGACTGATCCAACCTGCAGAGA  
 TGGCAGCTGAGTCATTGCCTTTCTCCTTCGGGACACTGTCAGCTGGGAGCTGGAAGCCTGGTATGAGGA  
 CCTGCAAGAGGTCCTGTCTTCAGATGAAAATGGGGTACCTATGTTTCACCTCTGAAAATGAAGAGGAA  
 GAATCAAAAATCTTCACCACTCTTGACCCTGCTTCTCTGGCTTGCTGACTGAGGAGGAGCCAGAACCAG  
 CAGAGGTCACAAGCACCTCCCAGAGCCCTCACTCTCCAGATTCAGTCCAGAGCTCCCTGGCTCAGGAGGA  
 AGAGGAGGAAGACCAAGGAGAACCAGGAAACGGAACAGAGTGGTCATTCCCAGCCCGGGCTGGAAGG  
 CAGCGCATGAAGGAGAAAAGAACAGGAGAATGAAAGGAAAGTGGCACAGCTAGCTGAAGAGAATGAACGGC  
 TCAAGCAGGAAATCGAGCGCCTGACCAGGGAAGTAGAGGCGACTCGCCGAGCTCTGATTGACCGAATGGT  
 GAATCTGCACCAAGCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG231040 representing NM\_001195053  
 Red=Cloning site Green=Tags(s)

MELVPATPHYPADVLFQTDPTAEMAAESLPFSFGTLSSWELEAWYEDLQEVLSSENGGTYVSPPGNEEE  
 ESKIFFTLDPASLAWL TEEPEPAEVTSTSQSPHSPDSSQSSLAQEEEEEDQGRTRKRKQSGHSPARAGK  
 QRMKEKEQENERKVAQLAEENERLKQEIERL TREVEATRRALIDRMVNLHQA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



[View online »](#)

**Cloning Scheme:**


**ACCN:** NM\_001195053

**ORF Size:** 576 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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:**

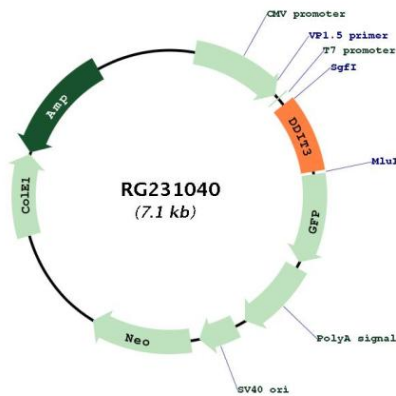
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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\\_001195053.1](#), [NP\\_001181982.1](#)

**RefSeq Size:** 1081 bp  
**RefSeq ORF:** 579 bp  
**Locus ID:** 1649  
**UniProt ID:** [P35638](#)  
**Cytogenetics:** 12q13.3  
**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 RG231040