

# **Product datasheet for RG232058**

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OriGene Technologies, Inc.

## DDIT3 (NM\_001195054) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** DDIT3 (NM\_001195054) 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 >RG232058 representing NM\_001195054
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GAATCTGCACCAAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG232058 representing NM\_001195054

Red=Cloning site Green=Tags(s)

MELVPATPHYPADVLFQTDPTAEMAAESLPFSFGTLSSWELEAWYEDLQEVLSSDENGGTYVSPPGNEEE ESKIFTTLDPASLAWLTEEEPEPAEVTSTSQSPHSPDSSQSSLAQEEEEEDQGRTRKRKQSGHSPARAGK

QRMKEKEQENERKVAQLAEENERLKQEIERLTREVEATRRALIDRMVNLHQA

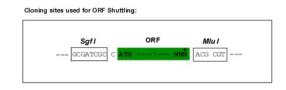
TRTRPLE - GFP Tag - V

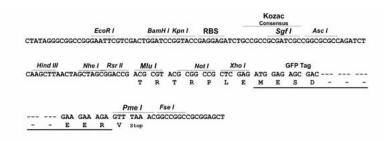
**Restriction Sites:** Sgfl-Mlul



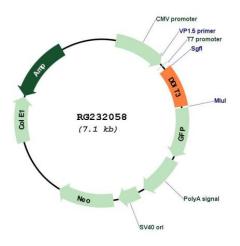


#### **Cloning Scheme:**





### Plasmid Map:



**ACCN:** NM\_001195054

ORF Size: 576 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).



Cytogenetics:

**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 001195054.1</u>, <u>NP 001181983.1</u>

 RefSeq Size:
 1028 bp

 RefSeq ORF:
 579 bp

 Locus ID:
 1649

 UniProt ID:
 P35638

**Protein Families:** Druggable Genome, Transcription Factors

12q13.3

**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]