

Product datasheet for **RG232058**

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 Sequence: >RG232058 representing NM_001195054
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCTTGTCCAGCCACTCCCCATTATCCTGCAGATGTGCTTTCCAGACTGATCCAACCTGCAGAGA
 TGGCAGCTGAGTCATTGCCTTTCTCCTTCGGGACACTGTCAGCTGGGAGCTGGAAGCCTGGTATGAGGA
 CCTGCAAGAGGTCCTGTCTTCAGATGAAAATGGGGTACCTATGTTTCACCTCTGAAAATGAAGAGGAA
 GAATCAAAAATCTTCACCACTCTTGACCCTGCTTCTCTGGCTTGCTGACTGAGGAGGAGCCAGAACCAG
 CAGAGGTCACAAGCACCTCCAGAGCCCTCACTCTCCAGATTCAGTCCAGAGCTCCCTGGCTCAGGAGGA
 AGAGGAGGAAGACCAAGGAGAACCAGGAAACGGAACAGAGTGGTCATTCCCAGCCCGGGCTGGAAGG
 CAGCGCATGAAGGAGAAAAGAACAGGAGAATGAAAGGAAAGTGGCACAGCTAGCTGAAGAGAATGAACGGC
 TCAAGCAGGAAATCGAGCGCCTGACCAGGGAAGTAGAGGCGACTCGCCGAGCTCTGATTGACCGAATGGT
 GAATCTGCACCAAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG232058 representing NM_001195054
 Red=Cloning site Green=Tags(s)

MELVPATPHYPADVLFTDPTAEMAAESLPFSFGTLSSWELEAWYEDLQEVLSSENGGTYVSPPGNEEE
 ESKIFFTLDPASLAWL TEEPEPAEVTSTSQSPHSPDSSQSSLAQEEEEEDQGRTRKRKQSGHSPARAGK
 QRMKEKEQENERKVAQLAEENERLKQEIERTREVEATRRALIDRMVNLHQA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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_001195054.1](#), [NP_001181983.1](#)

RefSeq Size: 1028 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]