

Product datasheet for RC232059

OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

DDIT3 (NM_001195055) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: DDIT3 (NM_001195055) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: DDIT3

Synonyms: AltDDIT3; C/EBPzeta; CEBPZ; CHOP; CHOP-10; CHOP10; GADD153

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC232059 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GAATCTGCACCAAGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAG**GTTTAA**

Protein Sequence: >RC232059 protein sequence

Red=Cloning site Green=Tags(s)

MELVPATPHYPADVLFQTDPTAEMAAESLPFSFGTLSSWELEAWYEDLQEVLSSDENGGTYVSPPGNEEE ESKIFTTLDPASLAWLTEEEPEPAEVTSTSQSPHSPDSSQSSLAQEEEEEDQGRTRKRKQSGHSPARAGK

QRMKEKEQENERKVAQLAEENERLKQEIERLTREVEATRRALIDRMVNLHQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

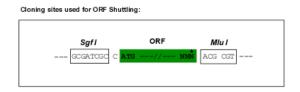


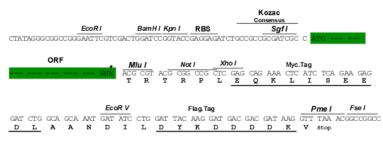
DDIT3 (NM_001195055) Human Tagged ORF Clone - RC232059

Chromatograms: https://cdn.origene.com/chromatograms/ja1817 b10.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001195055

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).

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 001195055.1</u>, <u>NP 001181984.1</u>

RefSeq Size: 1005 bp RefSeq ORF: 579 bp Locus ID: 1649

DDIT3 (NM_001195055) Human Tagged ORF Clone - RC232059

UniProt ID: P35638
Cytogenetics: 12q13.3

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: MAPK signaling pathway

MW: 21.7 kDa

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

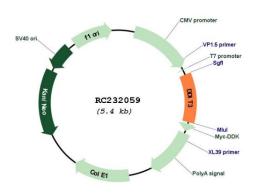
erythropoiesis, is activated by endoplasmic reticulum stress, and promotes apoptosis. Fusion

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 RC232059