

## Product datasheet for RC231940

### DDIT3 (NM\_001195057) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DDIT3 (NM\_001195057) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** DDIT3  
**Synonyms:** AltDDIT3; C/EBPzeta; CEBPZ; CHOP; CHOP-10; CHOP10; GADD153  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC231940 representing NM\_001195057  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

**ATGGCAGCTGAGTCATTGCCTTCTCCTTCGGGACACTGTCCAGCTGGGAGCTGGAAGCCTGGTATGAGG**  
**ACCTGCAAGAGGTCTGTCTTCAGATGAAAATGGGGTACCTATGTTTCACCTCCTGAAATGAAGAGGA**  
**AGAATCAAAAATCTTCACCACTTTGACCTGCTTCTCTGGCTTGGCTGACTGAGGAGGAGCCAGAACCA**  
**GCAGAGGTCACAAGCACCTCCCAGAGCCCTCACTCTCCAGATTCCAGTCAGAGCTCCCTGGCTCAGGAGG**  
**AAGAGGAGGAAGACCAAGGGAGAACCAGGAAACGAAACAGAGTGGTCATTCCCCAGCCGGGCTGGAAA**  
**GCAGCGCATGAAGGAGAAAGAACAGGAGAATGAAAGGAAAGTGGCACAGCTAGCTGAAGAGAATGAACGG**  
**CTCAAGCAGGAAATCGAGCGCCTGACCAGGAAGTAGAGGCGACTCGCCGAGCTCTGATTGACCGAATGG**  
**TGAATCTGCACCAAGCA**

**ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RC231940 representing NM\_001195057  
 Red=Cloning site Green=Tags(s)

MAAESLPFSFGLSSWELEAWYEDLQEVLSSENGGTYVSPPGNEEEESKIFTTLDPASLAWLTEEEPEP  
 AEVTSTSQSPHSPDSSQSSLAQEEEEEDQGRTRKRKQSGHSPARAGKQRMKEKEQENERKVAQLAEENER  
 LKQEIERTREVEATTRALIDRMVNLHQA

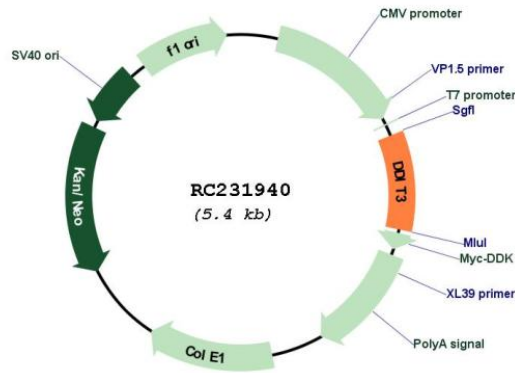
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001195057

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001195057.1</a></u> , <u><a href="#">NP_001181986.1</a></u>
<b>RefSeq Size:</b>	910 bp
<b>RefSeq ORF:</b>	510 bp
<b>Locus ID:</b>	1649
<b>UniProt ID:</b>	<u><a href="#">P35638</a></u>
<b>Cytogenetics:</b>	12q13.3
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	MAPK signaling pathway
<b>MW:</b>	19.6 kDa
<b>Gene Summary:</b>	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]