

## Product datasheet for **SC324377**

### DDIT3 (NM\_004083) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DDIT3 (NM\_004083) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** DDIT3  
**Synonyms:** AltDDIT3; C/EBPzeta; CEBPZ; CHOP; CHOP-10; CHOP10; GADD153  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_004083.4  
GAGAGAGAGACTTAAGTCTAAGGCACTGAGCGTATCATGTTAAAGATGAGCGGTGGC  
AGCGACAGAGCCAAAATCAGAGCTGGAACCTGAGGAGAGAGTGTCAAGAAGGAAGTGTA  
TCTTCATACATCACCACACCTGAAAGCAGATGTGCTTTCCAGACTGATCCAACCTGCAGA  
GATGGCAGCTGAGTCATTGCCTTCTCCTTTGGGACACTGTCCAGCTGGGAGCTGGAAGC  
CTGGTATGAGGACCTGCAAGAGGTCTGTCTTCAGATGAAAATGGGGGTACCTATGTTTC  
ACCTCCTGAAAATGAAGAGGAAGAATCAAAAATCTTCACCACTCTTGACCCTGCTTCTCT  
GGCTTGGCTGACTGAGGAGGAGCCAGAACCAGCAGAGGTCACAAGCACCTCCCAGAGCCC  
TCACTCTCCAGATTCCAGTCAGAGCTCCCTGGCTCAGGAGGAAGAGGAGGAAGACCAAGG  
GAGAACCAGGAAACGAAACAGAGTGGTCATTCCCAGCCGGGCTGGAAGCAGCGCAT  
GAAGGAGAAAGAACAGGAGAATGAAAGGAAAGTGGCACAGCTAGCTGAAGAGAATGAACG  
GCTCAAGCAGGAAATCGAGCGCCTGACCAGGGAAGTAGAGGCGACTCGCCGAGCTCTGAT  
TGACCGAATGGTGAATCTGCACCAAGCATGAACAATTGGGAGCATCAGTCCCCCACTTGG  
GCCACACTACCCACCTTTCCAGAAGTGGCTACTGACTACCCTCTCACTAGTGCCAATGA  
TGTGACCTCAATCCCACATACGCAGGGGGAAGGCTTGGAGTAGACAAAAGGAAAGGTCT  
CAGCTTGTATATAGAGATTGTACATTTATTTACTGTCCCTATCTATTAAGTGACTT  
TCTATGAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_004083

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



[View online »](#)

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<a href="#">NM_004083.4</a> , <a href="#">NP_004074.2</a>
<b>RefSeq Size:</b>	927 bp
<b>RefSeq ORF:</b>	510 bp
<b>Locus ID:</b>	1649
<b>UniProt ID:</b>	<a href="#">P35638</a>
<b>Cytogenetics:</b>	12q13.3
<b>Domains:</b>	BRLZ
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	MAPK signaling pathway
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (5) lacks an internal segment in the 5' region, resulting in a downstream AUG start codon, as compared to variant 1. The resulting isoform (2) is shorter at the N-terminus, as compared to isoform 1.</p>