

Product datasheet for **SC117581**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004083, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGCTGAGTCATTGCCTTCTCCTTCGGGACACTGTCCAGCTGGGAGCTGGAAGCCTGGTATGAGG
ACCTGCAAGAGGTCCTGTCTTCAGATGAAAATGGGGGTACCTATGTTTCACCTCCTGAAATGAAGAGGA
AGAATCAAAAATCTTCACCACTCTTGACCCTGCTTCTCTGGCTTGGCTGACTGAGGAGGAGCCAGAACCA
GCAGAGGTCACAAGCACCTCCCAGAGCCCTCACTCTCCAGATTCCAGTCAGAGCTCCCTGGCTCAGGAGG
AAGAGGAGGAAGACCAAGGGAGAACCAGGAAACGGAAACAGAGTGGTCATCCCCAGCCCGGCTGGAAA
GCAGCGCATGAAGGAGAAAGAACAGGAGAATGAAAGGAAAGTGGCACAGCTAGCTGAAGAGAATGAACGG
CTCAAGCAGGAAATCGAGCGCCTGACCAGGGAAGTAGAGGCGACTCGCCGAGCTCTGATTGACCGAATGG
TGAATCTGCACCAAGCATGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004083 unedited TATACGACTCACTATAGGCGGCCGCAATTCGCACGAGGGTCCCAGCTACTCGGGAGGCC GAGGCAGAAGAACAACCTTGAACCGAGGAGGCAGAGGTTGCAGTGAGCCGAGATCGCACCCAC TGCACTTCAGCCTGGCAACAGAGCAAGACTTGGTCTCAAAAAAAAAAAGAAAGAAAA AAGAAAAAGAAAGTAAGTTGCCTCTCCCCTTCCAAAAATGGCTGACATTTCTCTTTGT TGCCACAGTGTCAAGAAGGAAGTGTATCTTCATACATCACACACCTGAAAGCAGATG TGCTTTTCCAGACTGATCCAACCTGCAGAGATGGCAGCTGAGTCATTGCCTTTCTCCTTCG GGACACTGCCAGCTGGGAGCTGGAAGCCTGGTATGAGGACCTGCAAGAGTCTGTCTT CAGATGAAAAATGGGGTACCTATGTTTACCTCCTGAAAATGAAGAGGAAGAATCAAAAA TCTTACCACCTCTTGACCCTGCTTCTCTGGCTTGCTGACTGAGGAGGAGCCAGAACCAG CAGAGGTCAACAAGCACCTCCCAGAGCCCTCACTCTCCAGATTCCAGTCAGAGCTCCCTGG CTCAGGAGGAAGAGGAGGAAGACCAAGGGAGAACCAGGAAACGGAAACAGAGTGGTCATT CCCCAGCCGGGCTGAAAGCAGCGCATGAAGGAGAAAGAACAGGAGATGAAAGGAAAGT GGCACAGCTAGCTGAAAAGATGAACGGCTCAAGCAGGAAATCGAGCGCCTGACCANNAA GTAGAGGCGACTGCCGAGCTCTGATTGACCGAATGGTGAATCTGCACCAGCATGAACAA TNGGGAGCATCAGTCCCCACTTGGGCCACACTACCACTTNNCCAGAGTGTCTACTACTA CCTNTNACTAGTGCCATGATGTGACCCTCATCCACAACGCAGGGGAAGNCTGGATN
Restriction Sites:	NotI-NotI
ACCN:	NM_004083
Insert Size:	1150 bp
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).
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:	<ol style="list-style-type: none"> 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_004083.4 , NP_004074.2
RefSeq Size:	927 bp
RefSeq ORF:	510 bp
Locus ID:	1649
UniProt ID:	P35638
Cytogenetics:	12q13.3
Domains:	BRLZ
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]

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.