

Product datasheet for MC200990

Ddit3 (NM_007837) Mouse Untagged Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Ddit3 (NM_007837) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ddit3
Synonyms:	chop; CHOP-10; CHOP10; gadd153
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	<pre>>BC013718 sequence for NM_007837 CGGACGCGTGGGCTAACACGTCGATTATATCATGTTGAAGATGAGCGGGTGGCAGCGACAGAGCCAGAAT AACAGCCGGAACCTGAGGAGAGAGTGTTCCAGAAGGAAGTGCATCTTCATACACCACACACCTGAAAGC AGAACCTGGTCCACGTGCAGTCATGGCAGCTGAGTCCCTGCCTTCACCTTGGAGACGGTGTCCAGCTGG GAGCTGGAAGCCTGGTATGAGGATCTGCAGGAGGTCCTGTCCTGCCTCAGATGAAAATGGGGGCACCTATATCT CATCCCCAGGAAACGAAGAGGAAGAATCAAAAACCTTCACTACTCTTGACCCTGCGTCCCTAGCTTGGCT GACAGAGGAGCCAGGGCCAACAGAGGTCACACGCACATCCCAAAGCCCTCGCTCTCCAGATTCCAGTCAG AGTTCTATGGCCCAGGAGCAACAGAGGTCACACGCACATCCCAAAGCCCTCGCTCTCCAGATTCCAGTCAG AGTTCTATGGCCCAGGAGGAAGAGGAGGAAGAGAGAAGAAGAAGAACTAGGAAACGGAAACAGAGTGGCCAGT GCCCAGCCCGGCCTGGGAAGCAACGCATGAAGGAAGAAGAACTAGGAAACGGAAACAGAGTGGCCAGG AGTTCTATGGCCCAGGAGCAACGCATGAAGGAAGAAGAAGAACAAGGAGCGGAAACGAGCGGAAAGTGGCACAGC GCCCAGCCCGGCCTGGGAAGCAACGCATGAAGGAGAAGGAGCAGGAGGAGGAGGAGGAGCACACGGCG GCTCTGATCGACCGCATGGTCAGCCTGCACCAAGCATGAACGAGCGGCATCACCTCCTGTCTCTCC GGAAGTGTACCCAGCACCATCGCGCCAGCGCCAAGCATGTGACCCTGCACTGCACTGCACATGCTGAGGA GAGGACTGAGGGTAGACCAGGAGAGGGCTCGGCTTGCACATAGACGGTACATTGTTTATTACTGTCCATG TCCAGTAAAGTGACCTTTGTGTCAAAAAAAAAA</pre>
Restriction Sites:	Rsrll-Notl
ACCN:	NM_007837
Insert Size:	507 bp



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OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>BC013718</u> , <u>AAH13718</u>
RefSeq Size:	910 bp
RefSeq ORF:	507 bp
Locus ID:	13198
UniProt ID:	<u>P35639</u>
Cytogenetics:	10 D3

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CRIGENE Ddit3 (NM_007837) Mouse Untagged Clone – MC200990

Multifunctional transcription factor in ER stress response. Plays an essential role in the Gene Summary: response to a wide variety of cell stresses and induces cell cycle arrest and apoptosis in response to ER stress. Plays a dual role both as an inhibitor of CCAAT/enhancer-binding protein (C/EBP) function and as an activator of other genes. Acts as a dominant-negative regulator of C/EBP-induced transcription: dimerizes with members of the C/EBP family, impairs their association with C/EBP binding sites in the promoter regions, and inhibits the expression of C/EBP regulated genes. Positively regulates the transcription of TRIB3, IL6, IL8, IL23, TNFRSF10B/DR5, PPP1R15A/GADD34, BBC3/PUMA, BCL2L11/BIM and ERO1L. Negatively regulates; expression of BCL2 and MYOD1, ATF4-dependent transcriptional activation of asparagine synthetase (ASNS), CEBPA-dependent transcriptional activation of hepcidin (HAMP) and CEBPB-mediated expression of peroxisome proliferator-activated receptor gamma (PPARG). Inhibits the canonical Wnt signaling pathway by binding to TCF7L2/TCF4, impairing its DNA-binding properties and repressing its transcriptional activity. Plays a regulatory role in the inflammatory response through the induction of caspase-11 (CASP4/CASP11) which induces the activation of caspase-1 (CASP1) and both these caspases increase the activation of pro-IL1B to mature IL1B which is involved in the inflammatory response. Acts as a major regulator of postnatal neovascularization through regulation of endothelial nitric oxide synthase (NOS3)-related signaling.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.

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