

Product datasheet for SC210461

DDIT4 (NM_019058) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	DDIT4 (NM_019058) Human 3' UTR Clone
Symbol:	DDIT4
Synonyms:	Dig2; REDD-1; REDD1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_019058
Insert Size:	878 bp
Insert Sequence:	<p>>SC210461 3'UTR clone of NM_019058</p> <p>The sequence shown below is from the reference sequence of NM_019058. The complete sequence of this clone may contain minor differences, such as SNPs.</p> <p>Blue=Stop Codon Red=Cloning site</p>

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GGCAAGTTGGACGCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAACGATCGCC
TCGGAACAGCTGCTCATTGAGGAGTGTAACTTCAACCTGAGGGGGCCGACAGTGCCCTCCAAGACAG
AGACGACTGAACCTTTGGGTGGAGACTAGAGGCAGGAGCTGAGGGACTGATTCCTGTGGTTGGAAAAC
TGAGGCAGCCACCTAAGGTGGAGGTGGGGAATAGTGTTCAGGAAGCTCATTGAGTTGTGTGCGGG
TGGCTGTGCATTGGGACACATACCCCTCAGTACTGTAGCATGAAACAAAGGCTTAGGGCCAACAAGG
CTTCCAGCTGGATGTGTGTAGCATGTACCTTATTATTTTGTACTGACAGTTAACAGTGGTGTGAC
ATCCAGAGAGCAGCTGGGCTGCTCCCGCCCCAGCCCGGCCAGGGTGAAGGAAGAGGCACGTGCTCCTC
AGAGCAGCCGGAGGGAGGGGGAGGTGCGAGGTGCTGGAGGTGGTTTGTGTATCTTACTGGTCTGAAGG
GACCAAGTGTGTTTGTGTTTGTGTTTGTATCTTGTGTTTCTGATCGGAGCATCACTACTGACCTGTTGT
AGGCAGCTATCTTACAGACGCATGAATGTAAGAGTAGGAAGGGGTGGGTGTCAGGGATCACTTGGGATC
TTTGACACTTGAAAAATTACACCTGGCAGCTGCGTTTAAGCCTTCCCCATCGTGTACTGCAGAGTTGA
GCTGGCAGGGGAGGGGCTGAGAGGTGGGGCTGGAACCCCTCCCGGGAGGAGTGCCATCTGGGTCTT
CCATCTAGAAGTGTACATGAAGATAAGATACTCACTGTTTATGAATACATTGATGTTCAAGTATTA
AGACCTATGCAATATTTTACTTTTCTAATAAACATGTTTGTAAACA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAAGAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI


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OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_019058.4
Summary:	Regulates cell growth, proliferation and survival via inhibition of the activity of the mammalian target of rapamycin complex 1 (mTORC1). Inhibition of mTORC1 is mediated by a pathway that involves DDIT4/REDD1, AKT1, the TSC1-TSC2 complex and the GTPase RHEB. Plays an important role in responses to cellular energy levels and cellular stress, including responses to hypoxia and DNA damage. Regulates p53/TP53-mediated apoptosis in response to DNA damage via its effect on mTORC1 activity. Its role in the response to hypoxia depends on the cell type; it mediates mTORC1 inhibition in fibroblasts and thymocytes, but not in hepatocytes (By similarity). Required for mTORC1-mediated defense against viral protein synthesis and virus replication (By similarity). Inhibits neuronal differentiation and neurite outgrowth mediated by NGF via its effect on mTORC1 activity. Required for normal neuron migration during embryonic brain development. Plays a role in neuronal cell death. [UniProtKB/Swiss-Prot Function]
Locus ID:	54541
MW:	32.6