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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

Vector: pMirTarget (PS100062)

Symbol: DDIT4

Synonyms: Dig2; REDD-1; REDD1

ACCN: NM_019058

Insert Size: 878 bp

Insert Sequence:

>SC210461 3'UTR clone of NM_019058
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.
Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
TCGGAACAGCTGCTCATTGAGGAGTGTTGAACTTCAACCTGAGGGGGCCGACAGTGCCCTCCAAGACAG
AGACGACTGAACTTTTGGGGTGGAGACTAGAGGCAGGAGCTGAGGGACTGATTCCTGTGGTTGGAAAAC
TGAGGCAGCCACCTAAGGTGGAGGTGGGGGAATAGTGTTTCCCAGGAAGCTCATTGAGTTGTGTGCGGG
TGGCTGTGCATTGGGGACACATACCCCTCAGTACTGTAGCATGAAACAAAGGCTTAGGGGCCAACAAGG
CTTCCAGCTGGATGTGTGTGTAGCATGTACCTTATTATTTTTGTTACTGACAGTTAACAGTGGTGTGAC
ATCCAGAGAGCAGCTGGGCTGCTCCCGCCCCAGCCCGGCCCAGGGTGAAGGAAGAGGCACGTGCTCCTC
AGAGCAGCCGGAGGGAGGGGGGAGGTCGGAGGTCGTGGAGGTGGTTTGTGTATCTTACTGGTCTGAAGG
GACCAAGTGTGTTTGTTGTTTGTTTTGTATCTTGTTTTTCTGATCGGAGCATCACTACTGACCTGTTGT
AGGCAGCTATCTTACAGACGCATGAATGTAAGAGTAGGAAGGGGTGGGTGTCAGGGATCACTTGGGATC
TTTGACACTTGAAAAATTACACCTGGCAGCTGCGTTTAAGCCTTCCCCCATCGTGTACTGCAGAGTTGA
GCTGGCAGGGGAGGGGCTGAGAGGGTGGGGGCTGGAACCCCTCCCCGGGAGGAGTGCCATCTGGGTCTT
CCATCTAGAACTGTTTACATGAAGATAAGATACTCACTGTTCATGAATACACTTGATGTTCAAGTATTA
AGACCTATGCAATATTTTTTACTTTTCTAATAAACATGTTTGTTAAAACA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG

Restriction Sites: SgfI-MluI

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).

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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