

Product datasheet for **SC322401**

DDIT4L (NM_145244) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDIT4L (NM_145244) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDIT4L
Synonyms:	REDD2; Rtp801L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322401
 AGCCGGCGCAGGGTGGCCGGGGAGGGGTGAGCAGGGTGCCGCTGGCTGCTGGGGTCTGCA
 GGTCAACGAGTCCCCAGGAGAGGGGACTCCTAAGAAGCCACCTGCCTGTGTTTACCCGGC
 AGCGAGCGCGCAGGCCCCCGGAACTCCTGGCAGCGCTCAGGAAAGGCCGTTGCGCCTCG
 CGAAGGAAACAGAGCCGTTGACCATGGTTGCAACTGGCAGTTTGGAGCAGCAAGAACC
 CCAGCATTTTCAAGATTGCTGGACTGTGGCTATCACCCAGAGAGCCTGCTAAGTATTTG
 ACTACTGGGATTATGTTTCTTGAACCAACCTCAACGAGGTAATATTTGAGGAATCAA
 CTTGCCAGAATTTGGTTAAAATGCTGGAGAACTGTCTGTCCAAATCAAAGCAAATAAAC
 TTGGTTGCTCAAAGTCTTGTCCCTGAGAACTGACCCAGAGAATTGCTCAAGATGTCC
 TCGCGCTTTCCTCAACGGAGCCCTGCGGCTTGCAGGTTGTGTTATGCACGTGAACCTGG
 AAATTGAAAATGTATGTAAGGCTGGATAGGATTGTGTGATTCTAGCGTCGTACCTA
 CTTTTGAGCTTACACTTGTGTTAAGCAGGAGAACTGCTCATGGACTAGCTTCAGGGACT
 TTTTCTTTAGTAGAGGTCGCTTCTCTCTGGTTTCAGGAGAACTGATCCTCAGCTCAG
 GATTTTCGACTTGTAAAGAAAAAATTTACTCACTGATTGGAACAACAGTATTGAAGGT
 CCTAAAAAGGAAAATATAAAGATTATTTTCATGATTGGGTAGTAAAATATTCAGCTA
 GTCAGCTAAAGTCATTTGTAGTTTGCCCCACCTGCCCTAAATAAGAAACCCAAATGTAG
 TCTCTTTTCTTCTGTGTTTACATTATAGCAACTGCAGCTAACAGGCTGATTTTCTGG
 CCTTTGGAGAAGTGATCAAATAGTGTAGATTTTCTGCATAGATCCCATTTTGTACAG
 AATTGAATGGGATGGAATAGGTAAGCAAAAGTAGAAGCCATTTGAGTTTACATTTGAT
 TCCACAATTTGGTTTTCAGGTAGGCTTGGTAATAGACTATATAAACAGATTTGCCTATTT
 TGATTTTTCATATGGCTTTTTTCTCTAAGTTTTCAGAGGATTTTTAAATCACAGAATC
 ATACTAAATGATATTTAGCCTATCAAACTTCCAAAAGCCACACCACCGTTCCTGACT
 CAAATTTGAAGGGTTTTTAGACAGGAAGGTAGGATTAAGTAGGTGAGTTTAAATTAAGCT
 TAACCCTAGGTAAGAGTAAATGAGAAATATTACGGCAATATGGAAGTCTTCACTGTTT
 CTGGTGACTTCTCACTCTAATGTTTTAAAGAGGCAACAAAAGCTTGTGGTGCCATTTT
 AGTAACCACGGTGTGTTTTAGATGCCTTTATAAGCTCAGTTTCCCCTGTTCTTAAGTGT
 TGAATACTGTCTTTAACTAGAAAAATGCAAAATATTGAACTGATATTTTGTGTGATG
 TGATTACTCTCCATTGAGTGAATGATGAATACCTGTGAGGATAGGAAATAGTTCTGAG
 ATCTAGTCCCTCTGATTCACTTAGTAATCTATCCTCTTTTCAGTATTACATGTGCTTA
 ATCTCAGATGAACATTTACCATGGCAGTGTATCTCATCTCTGGGCTTTTCTGGGAAT
 TGAAGTATCTCTCTTAAACCCCAATTGTCAAGGGTAGTAGCTGTATACTACCACTTTGAA
 TTATTGAAACGGGTCAATTTACGAAGTCTGCATTGGCTATGGAGATATGTTTATAGTAC
 AGCCTAGAGAATGAAACTCACCGTCCAGATAACCATGCATGCACCCAGATTTTTTCCACC
 TTGGATACCTGTCACTAGGGAATAATAAAGGCCTATTTTTTGTCTTATTCCAACAAAGT
 AGATCATTATCTCTTTCTTTTTATGTTAATGAGAGAATTTAGCCTCCACTCAACAATG
 TTCAATTCAGCAAGGCTTTCATATCCTTGTCTGGGTCGTGGATAAAGGAGCTTATTCAGG
 TTTCTGCCCTAGCTATTAGCTCCACTTACATGCTGGAGACCGGCTAGGGACAGATGT
 ATTCATCTGGTGTACTGAAAAACAGGTGTGATCCTGTTACTGATACTATAAGTGACCT
 AAAATGTCACCTGTTCAAATTAGCCAGTGTCTAACAACTAAACTCTTCAAATGCTTGGGA
 AAGATACTACAAAGCCAATCTTTATAGAATTGGGCCAAGATAAAATCAATGTTGTTTTGCA
 TGCTATTGTTAAGCTCCAAAGTTCACTGTGTTTCTGCCGCTGTCTGGAGTTGTCACC
 ACTGACTGGGCAAGGCTTCTTGGGCATCGATGTAGAAGTGTGCTTTTTTCCACTAACA
 GTTATCTTTGACTCTCTTGCCTGTTATGCTTACAAAATGGTGATGGCTTATGGAAGGCTG
 TTAATTAATATCTGTTAAAGGAAATTAAGTGTGCTATTTTTGACAATAAAACATT
 ATATATTTTTAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_145244

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 custsupport@origene.com 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. [More info](#)

OTI Annotation: 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.

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:

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_145244.2](#), [NP_660287.1](#)

RefSeq Size: 2607 bp

RefSeq ORF: 582 bp

Locus ID: 115265

UniProt ID: [Q96D03](#)

Cytogenetics: 4q24

Gene Summary: Inhibits cell growth by regulating the TOR signaling pathway upstream of the TSC1-TSC2 complex and downstream of AKT1.[UniProtKB/Swiss-Prot Function]