

Product datasheet for **RG202324**

DDIT4L (NM_145244) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: DDIT4L
Synonyms: REDD2; Rtp801L
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG202324 representing NM_145244
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGTTGCAACTGGCAGTTTGAGCAGCAAGAACCAGCCGAGCATTTCAGAATTGCTGGACTGTGGCTATC
ACCCAGAGAGCCTGCTAAGTGATTTGACTACTGGGATTATGTTGTTCTGAACCCAACTCAACGAGGT
AATATTTGAGGAATCAACTGCCAGAATTTGGTTAAATGCTGGAGAACTGTCTGTCCAAATCAAAGCAA
ACTAACTTGGTTGCTCAAAGGTCCTTGCCCTGAGAACTGACCCAGAGAATTGCTCAAGATGTCCTGC
GGCTTTCTCAACGAGCCCTGCGGCTTGCAGGTTGTGTTATGCACGTGAAGTGGAAATTGAAAATGT
ATGTAAGAGCTGGATAGGATTGTGTGATTCTAGCGTCGTACCTACTTTGAGCTTACACTTGTGTTT
AAGCAGGAGAACTGCTCATGGACTAGCTTCAGGGACTTTTCTTTAGTAGAGGTCGCTTCTCCTCTGTT
TCAGGAGAACTCTGATCCTCAGCTCAGGATTCGACTTGTTAAGAAAAAATTTACTCACTGATTGGAAC
AACAGTGATTGAAGGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202324 representing NM_145244
Red=Cloning site Green=Tags(s)

MVATGSLSSKNPASISELLDCGYHPESLLSDFDYWDYVPEPNLNEVIFEESTCQNLVKMLENLSKSKQ
TKLGCSKVLVPEKLTQRIAQDVLRLSSTEPGLRGCMHVNLEIENVCKKLDRIVCDSSVPTFELTLVF
KQENCSTWTSFRDFFFSRGRFSSGFRRTLILSSGFRLVKKKLYSLIGTTVIEGS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_145244

ORF Size: 579 bp

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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_145244.4](#)

RefSeq Size: 2607 bp

RefSeq ORF: 582 bp

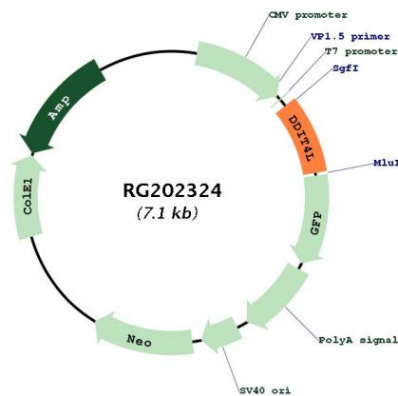
Locus ID: 115265

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]

Product images:



Circular map for RG202324