

Product datasheet for RC201805

FADD (NM_003824) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FADD (NM_003824) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FADD
Synonyms:	GIG3; MORT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201805 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGACCCGTTCTGCTGCTGCACTCGGTGTCGTCCAGCCTGTCGAGCAGCGAGCTGACCGAGCTCA
 AGTTCCTATGCCTCGGGCGCGTGGGCAAGCGCAAGCTGGAGCGCGTGCAGAGCGGCTAGACCTCTTCTC
 CATGCTGCTGGAGCAGACGACCTGGAGCCGGGCACACCGAGCTCCTGCGCGAGCTGCTCGCTCCCTG
 CGGCGCCACGACCTGCTCGGCGCGTCGACGACTTCGAGGCGGGGCGGCGGCCGGGCGCGCTGGG
 AAGAAGACCTGTGTGCAGCATTTAACGTCATATGTGATAATGTGGGAAAGATTGGAGAAGGCTGGCTCG
 TCAGCTCAAAGTCTCAGACACCAAGATCGACAGCATCGAGGACAGATACCCCGCAACCTGACAGAGCGT
 GTGCGGGAGTCACTGAGAATCTGGAAGAACACAGAGAAGGAGAACGCAACAGTGGCCACCTGGTGGGG
 CTCTCAGGTCTGCCAGATGAACCTGGTGGCTGACCTGGTACAAGAGGTTGAGCAGGCGCGTGACCTCCA
 GAACAGGAGTGGGGCCATGTCCCGATGTGATGGAACCTCAGACGCATCTACCTCCGAAGCGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC201805 protein sequence Red=Cloning site Green=Tags(s)
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MDPFLVLLHSVSSSLSSSELTELKFLCLGRVGKRKLERVQSGLDLFSMLLEQNDLEPGHTELLRELLASL
 RRHDLRLRVDDFEAGAAAGAAPGEEDLCAAFNVICDNVGKDWRRRLARQLKVSDTKIDSIEDRYPRNLTER
 VRESLRIWKNTKENATVAHLVGALRSCQMNLVADLVQEVQQARDLQNRSGAMSPMSWNSDASTSEAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV


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Chromatograms: https://cdn.origene.com/chromatograms/mk6084_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003824

ORF Size: 624 bp

OTI Disclaimer: 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.

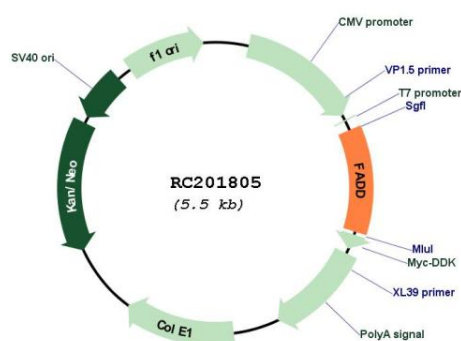
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_003824.4](#)

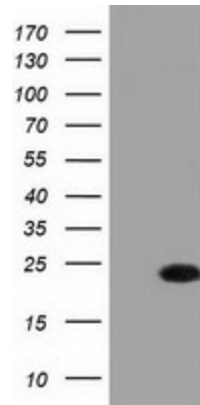
RefSeq Size: 1855 bp

RefSeq ORF:	627 bp
Locus ID:	8772
UniProt ID:	Q13158
Cytogenetics:	11q13.3
Domains:	DEATH, DED
Protein Families:	Druggable Genome
Protein Pathways:	Alzheimer's disease, Apoptosis, Pathways in cancer, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway
MW:	23.3 kDa
Gene Summary:	The protein encoded by this gene is an adaptor molecule that interacts with various cell surface receptors and mediates cell apoptotic signals. Through its C-terminal death domain, this protein can be recruited by TNFRSF6/Fas-receptor, tumor necrosis factor receptor, TNFRSF25, and TNFSF10/TRAIL-receptor, and thus it participates in the death signaling initiated by these receptors. Interaction of this protein with the receptors unmasks the N-terminal effector domain of this protein, which allows it to recruit caspase-8, and thereby activate the cysteine protease cascade. Knockout studies in mice also suggest the importance of this protein in early T cell development. [provided by RefSeq, Jul 2008]

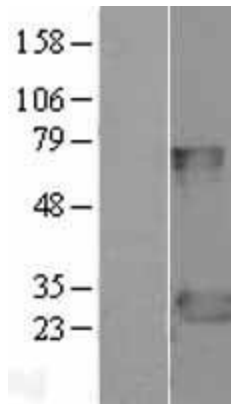
Product images:



Circular map for RC201805



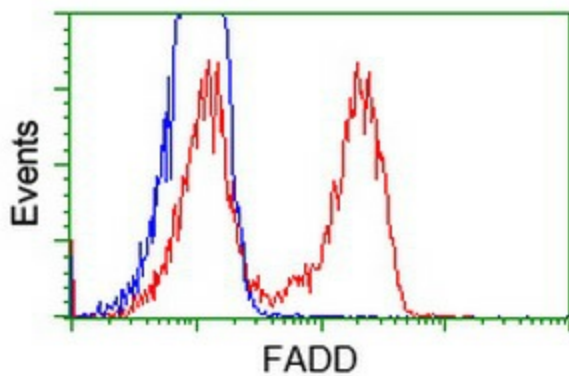
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY FADD (RC201805, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FADD ([TA501434]). Positive lysates [LY401265] (100ug) and [LC401265] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401265]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201805 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FADD protein (Cat# [TP301805]). The protein was produced from HEK293T cells transfected with FADD cDNA clone (Cat# RC201805) using MegaTran 2.0 (Cat# [TT210002]).



HEK293T cells transfected with either RC201805 overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-FADD antibody [TA501434], and then analyzed by flow cytometry.