

Product datasheet for **RC204357**

TIFA (NM_052864) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TIFA (NM_052864) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TIFA
Synonyms: T2BP; T6BP; TIFAA
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204357 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCAGTTTTGAAGATGCTGACACAGAAGAGACAGTAACCTTGCTCCAGATGACGGTTTACCATCCTG
GCCAGTTGCAGTGTGGAATATTTTCAGTCAATAAGTTTTAACAGAGAGAACTCCCTTCCAGCGAAGTGGT
GAAATTTGGCCGAAATCCAACATCTGTCATTACTTTTCAGGACAAACAGGTTTCCCGAGTTCAGTTT
TCTCTGCAGCTGTTAAAAAATCAACAGCTCAGTTCTCTCCTTTGAAATAAAAAATATGAGTAAAAAGA
CCAATCTGATCGTGGACAGCAGAGAGCTGGGCTACCTAAATAAAATGGACCTGCCATACAGGTGCATGGT
CAGATTCGGAGAGTATCAGTTTCTGATGGAGAAGGAAGATGGCGAGTCATTGGAATTTTTGAGACTCAA
TTTATTTTATCTCCAAGTCACTCTTGCAAGAAAACAACCTGGCCACCACACAGGCCCATACCGGAGTATG
GCACTTACTCGCTCTGCTCCTCCCAAAGCAGTTCTCCGACAGAAATGGATGAAATGAGTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204357 protein sequence
Red=Cloning site Green=Tags(s)

MTSFEDADTEETVTLQMTVYHPGQLQCGIFQSISFNREKLPSSEVVKFRNSNICHYTFQDKQVSRVQF
SLQLFKKFNSVLSFEIKNMSKKTNLIVDSRELGYLNKMDLPYRCMVRFGGEYQFLMEKEDGESLEFFETQ
FILSPRLLQENWPPHRPIPEYGTYSLCSSQSSSPTMDENES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

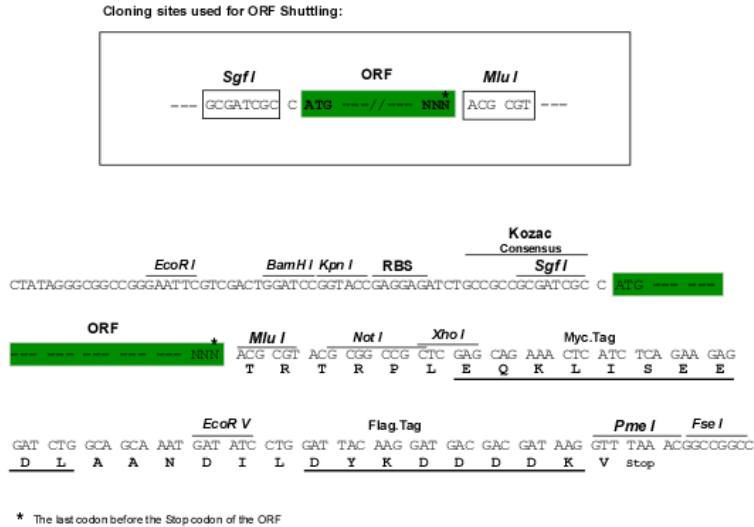
Chromatograms: https://cdn.origene.com/chromatograms/mk6060_g02.zip



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_052864

ORF Size: 552 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_052864.3](#)

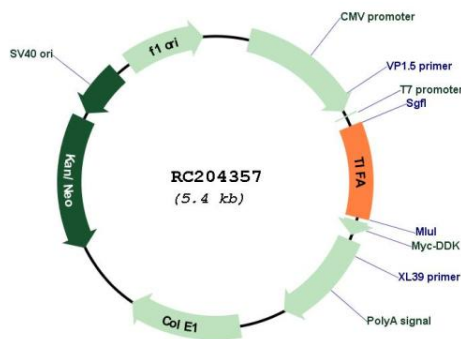
RefSeq Size: 3090 bp

RefSeq ORF: 555 bp

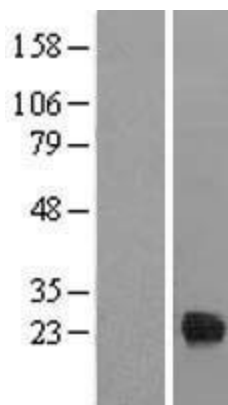
Locus ID: 92610
UniProt ID: [Q96CG3](#)
Cytogenetics: 4q25
MW: 21.4 kDa

Gene Summary: This gene encodes an adapter protein involved in adaptive and innate immunity. This protein includes a forkhead-associated (FHA) domain that specifically binds to phosphorylated serine and threonine residues. In response to bacterial infection, the encoded host cell protein undergoes an intermolecular interaction between the FHA domain and a phosphorylated threonine that leads to protein oligomerization and stimulation of the NF-kappa B and other downstream signaling pathways. This protein exhibits reduced expression in hepatocellular carcinoma and may suppress hepatocellular carcinoma progression. This protein may also play a role in the DNA damage response. [provided by RefSeq, Jun 2018]

Product images:



Circular map for RC204357



Western blot validation of overexpression lysate (Cat# [LY409440]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204357 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).