

Product datasheet for MR204517

Tnfaip1 (NM_001159392) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnfaip1 (NM_001159392) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tnfaip1
Synonyms:	Bacurd2; Edp-1; Edp1; Tnfip1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204517 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGGGGACACCTGTCTGTGTCCAGCCTCGGGGGCCAAGCCAAGATCAGTGGCTTCAAGGGAGGCG
GGCTGGGCAACAAGTACGTGCAGCTCAATGTGGGAGGCTCCCTGTACTACACCACAGTGGGGCCCTCAC
CCGGCAGGACACCATGCTCAAGGCCATGTTAGTGGGCGAATGGAGGTGCTGACTGACAAAGAAGGCTGG
ATTCTCATAGACCGATGTGAAAGCACTTTGGCACCATCTGAATTACCTCCGAGATGACACCATCACCC
TCCCTCAAAGCCGCAAGAAATCCAGGAGTTGATGGCTGAAGCAAATATTACCTCATTCAAGGGCTGGT
GAGCACGTGCCAGACTGCCCTGCAGGACAAGAAAGACTCCTACCAGCCTGTGTGCAACATCCCCATCATC
ACGTCCCTGAGGGAGGAGGACAGGCTCATTGAATCCTCCACAAAGCCTGTGGTGAAGCTGCTGTACAACA
GGAGCAACAACAAGTACTCATACACCAGCAACTCTGATGATCACCTGCTAAAGAACATTGAACTGTTTGA
CAAGCTGTCCCTGCGCTTCAACGGCCGCGTCTTCAATCAAGGATGTCATTGGGGACGAGATCTGCTGC
TGGTCTTTCTATGGCCAGGGCCGTAAGCTGGCAGAGGTGTGCTGCACCTCGATTGTGTACGCCACAGAGA
AGAAGCAGACCAAGGTGGAATCCAGAGGCCCGTATCTATGAGGAAACTCAATGTCTACTCTATGA
GACCCCTCGAGTCCCTGACAATTCCTTACTGGAGGCCACAAGCCGGAGCCGACCCAGGCTTCCCCCAGT
GAAGATGAAGACACCTTTGAACTACGGGACCGTGTCCGTCCGATTCATGTCAAGCGCTATAGCACTTACG
ATGACCGCAACTTGCCATCAGTCCACTCATCGTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204517 protein sequence
Red=Cloning site Green=Tags(s)

MSGDTCLCPASGAKPKISGFKGGGLGNKYVQLNVGGSLYYTTVRALTRHDTMLKAMFSGRMEVLTDKEGW
 ILIDRCGKHFGTILNYLRDDTITLPQSRQEIQLMAEAKYYLIQGLVSTCQTALQDKKDSYQPVNCIPII
 TSLREEDRLIESSTKPVVKKLLYNRSNNKYSYTSNSDDHLLKNIELFDKLSLRFNGRVLFIKDVIIGDEICC
 WSFYGQGRKLAEVCCTSIYVATEKKQTKVEFPEARIYEETLNVLLEYETPRVPDNLLEATSRSRSQASPS
 EDEDTFELRDRVRRRIHVKRYSTYDDRQLGHQSTHRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001159392

ORF Size: 951 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.

RefSeq: [NM_001159392.1](#), [NP_001152864.1](#)

RefSeq Size: 3696 bp

RefSeq ORF: 951 bp

Locus ID: 21927

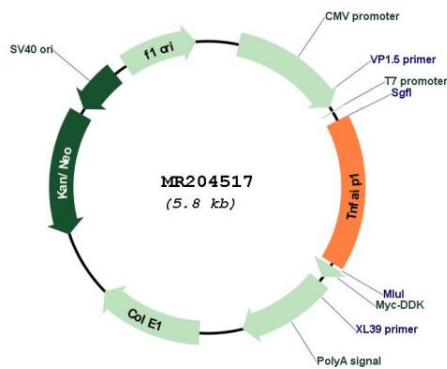
UniProt ID: [O70479](#)

Cytogenetics: 11 46.74 cM

MW: 36.1 kDa

Gene Summary: Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex involved in regulation of cytoskeleton structure. The BCR(TNFAIP1) E3 ubiquitin ligase complex mediates the ubiquitination of RHOA, leading to its degradation by the proteasome, thereby regulating the actin cytoskeleton and cell migration. Its interaction with RHOB may regulate apoptosis. May enhance the PCNA-dependent DNA polymerase delta activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204517