

## Product datasheet for MR225245

### Tnfaip1 (NM\_009395) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tnfaip1 (NM_009395) 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:	>MR225245 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCAGGGGACACCTGTCTGTGTCCAGCCTCGGGGGCCAAGCCAAGATCAGTGGCTTCAAGGGAGGCG  
GGCTGGGCAACAAGTACGTGCAGCTCAATGTGGGAGGCTCCCTGTACTACACCACAGTCCGGGCCCTCAC  
CCGGCAGCACACCATGCTCAAGGCCATGTTGAGTGGGCGAATGGAGGTGCTGACTGACAAAGAAGGCTGG  
ATTCTCATAGACCGATGTGAAAGCACTTTGGCACCATCTGAATTACCTCCGAGATGACACCATCACCC  
TCCCTCAAAGCCGCAAGAAATCCAGGAGTTGATGGCTGAAGCAAATATTACCTCATTCAAGGGCTGGT  
GAGCACGTGCCAGACTGCCCTGCAGGACAAGAAAGACTCCTACCAGCCTGTGTGCAACATCCCCATCATC  
ACGTCCCTGAGGGAGGAGGACAGGCTCATTGAATCCTCCACAAAGCCTGTGGTGAAGCTGCTGTACAACA  
GGAGCAACAACAAGTACTCATACACCAGCAACTCTGATGATCACCTGCTAAAGAACATTGAACTGTTTGA  
CAAGCTGTCCCTGCGCTTCAACGGCCGCGTCTTCAATCAAGGATGTCATTGGGGACGAGATCTGCTGC  
TGGTCTTTCTATGGCCAGGGCCGTAAGCTGGCAGAGGTGTGCTGCACCTCGATTGTGTACGCCACAGAGA  
AGAAGCAGACCAAGGTGGAATCCAGAGGCCCGTATCTATGAGGAAACTCAATGTCTACTCTATGA  
GACCCCTCGAGTCCCTGACAATTCCTTACTGGAGGCCACAAGCCGGAGCCGACCCAGGCTTCCCCCAGT  
GAAGATGAAGACACCTTTGAACTACGGGACCGTGTCCGTCCGATTCATGTCAAGCGCTATAGCACTTACG  
ATGACCGCAACTTGCCATCAGTCCACTCATCGTGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR225245 protein sequence  
Red=Cloning site Green=Tags(s)

MSGDTCLCPASGAKPKISGFKGGGLGNKYVQLNVGGSLYYTTVRALTRHDTMLKAMFSGRMEVLTDKEGW  
 ILIDRCGKHFGTILNYLRDDTITLPQSRQEIQELMAEKYYLIQGLVSTCQTALQDKKDSYQPVNCIPII  
 TSLREEDRLIESSTKPVVKLLYNRSNNKYSYTSNSDDHLLKNIELFDKLSLFNGRVLFIKDVIQDEICC  
 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\_009395

**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\\_009395.4](#), [NP\\_033421.3](#)

**RefSeq Size:** 3709 bp

**RefSeq ORF:** 951 bp

**Locus ID:** 21927

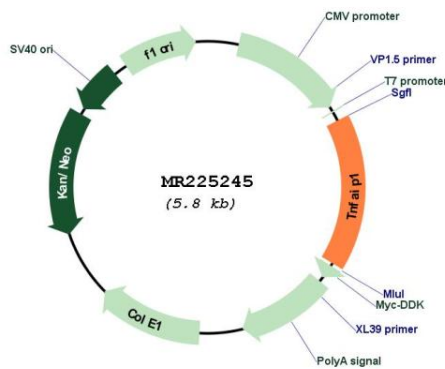
**UniProt ID:** [O70479](#)

**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 MR225245