

## Product datasheet for **RC233137**

### **TNFAIP3 (NM\_001270508) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TNFAIP3 (NM_001270508) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TNFAIP3
Synonyms:	A20; AISBL; OTUD7C; TNFA1P2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC233137 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

RCATGGCTGAACAAGTCCTTCTCAGGCTTTGTATTTGAGCAATATGCGGAAAGCTGTGAAGATACGGGA  
 GAGAACTCCAGAAGACATTTTTAAACCTACTAATGGGATCATTCATCATTTTTAAACCATGCACCGATAC  
 ACACTGGAAATGTTCAGAACTTGCCAGTTTTGTCTCAGTTTTCGGGAGATCATCCACAAAGCCCTCATCG  
 ACAGAAACATCCAGGCCACCCTGGAAAGCCAGAAGAACTCAACTGGTGTGAGAAAGTCCGGAAAGCTTGT  
 GGCGCTGAAAACGAACGGTGACGGCAATTGCCATGCATGCCACTTCTCAGTACATGTGGGGCGTTCAG  
 GACACAGACTTGGTACTGAGGAAGGCGCTGTTACGACGCTCAAGGAAACAGACACACGCAACTTTAAAT  
 TCCGCTGGCAACTGGAGTCTCTCAAATCTCAGGAATTTGTTGAAACGGGGCTTTGCTATGATACTCGGAA  
 CTGGAATGATGAATGGGACAATTTATCAAATGGCTTCCACAGACACCCATGGCCCCAAGTGGACTT  
 CAGTACAACCTCACTGGAAGAAATACACATATTTGTCCTTTGCAACATCCTCAGAAGGCCAATCATTGTCA  
 TTTTCAGACAAAATGCTAAGAAAGTTTGAATCAGGTTCCAATTTGCCCCCTTTGAAAGTGGGTGGAATTTA  
 CTTGCCTCTCCACTGGCCTGCCAGGAATGCTACAGATACCCCATTTGTTCTCGGCTATGACAGCCATCAT  
 TTTGTACCCTTGGTGACCCTGAAGGACAGTGGGCTGAAATCCGAGCTGTTCCACTTGTTAACAGAGACC  
 GGGGAAGATTTGAAGACTTAAAAGTTCACTTTTTGACAGATCCTGAAAATGAGATGAAGGAGAAGCTCTT  
 AAAAGAGTACTTAATGGTGATAGAAATCCCGTCCAAGGCTGGGACCATGGCACAACTCATCTCATCAAT  
 GCCGCAAAGTTGGATGAAGCTAATTACCAAAAGAAATCAATCTGGTAGATGATTACTTTGAACTTGTTT  
 AGCATGAGTACAAGAAATGGCAGGAAAACAGCGAGCGGGAGGAGAGAGGGGCACGCCAGAATCCCAT  
 GGAACCTTCCGTGCCCCAGCTTTCTCATGATGTAATAATGTGAAACGCCCAACTGCCCTTCTCATG  
 TCTGTGAACACCCAGCCTTTATGCCATGAGTGCTCAGAGAGGCGGCAAAAGAATCAAAACAACTCCCAA  
 AGCTGAACTCCAAGCCGGCCCTGAGGGCTCCCTGGCATGCGCTCGGGCCTCTCGGGGAGAAGCCTA  
 TGAGCCCTTGGCGTGAACCCCTGAGGAGTCCACTGGGGGCTCATTGCGCCACCCAGCAGCCAGC  
 CCTTTTCTGTTCACTGAGACCACTGCCATGAAGTGCAGGAGCCCCGGCTGCCCTTCACTGAATGTGC  
 AGCACAAAGGATTTTGTGAACGTTGCCACAACGCCGGCAACTTACGCCAGCCAGCCCCAGACCACAC  
 AAGGCACTGGATCCCGGAAGTGCCAAGCCTGCCTCCAGGATGTTACCAGGACATTTAATGGGATCTGC  
 AGTACTTGCTTCAAAGGACTACAGCAGAGGCCCTCCTCCAGCCTCAGCACCAGCCTCCCTCCTTCTGTC  
 ACCAGCGTTCCAAGTCAATCCCTCGCGCTCGTCCGGAGCCCCCAGCATTCTTCCACAGAGCTGG  
 AAACGACGCCCTGCTGGCTGCCTGTCTCAAGCTGCACGGACTCCTGGGACAGGACGGGACGAGCAAG  
 TGCAGAAAAGCCGGCTGCGTGTATTTGGGACTCCAGAAAACAAGGGCTTTTGCACACTGTGTTTATCG  
 AGTACAGAGAAAACAAACATTTTGTGCTGCCTCAGGGAAAGTCAAGTCCACAGCGTCCAGGTTCCAGAA  
 CACCATTCCGTGCTGGGAGGGAAATGCGGCACCCTTGAAGCACCATGTTTGAAGGATACTGCCAGAAG  
 TGTTTCATTGAAGCTCAGAATCAGAGATTTTATGAGGCCAAAAGGACAGAAGAGCAACTGAGATCGAGCC  
 AGCGCAGAGATGTGCTCGAACCACAAAAGCACCTCAAGGCCAAGTGCGCCGGGCTCCTGCAAGAA  
 CATCCTGGCCTGCCGACGAGGAGCTCTGCATGGAGTGTGAGCATCCCAACCAGAGGATGGGCCCTGGG  
 GCCCACCAGGGTGGAGCTGCCCCGAAGACCCCAAGCAGCGTTGCCGGGCCCGCTGTGATCATT  
 TTGGCAATGCCAAGTGAACGGCTACTGCAACGAATGCTTTCAGTTCAAGCAGATGTATGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

&gt;RC233137 protein sequence

Red=Cloning site Green=Tags(s)

XWLNKSFRLRCI\*AICGKL\*RYGRELQKTFNLNLMGSFIILKPCTDTHWKCSELASFVLSFGRSSTKPSS  
TETSRPPWKARRNSTGVEKSGSLWR\*KRTVTAIASCMPLLSTCGAFRTQTWY\*GRRCSARSRKQTHATLN  
SAGNWSLSNLRNLLKRGFAMILGTGMMNGTILSKWLPQTHPWPEVDFSTTHWKKYTYLSFATSSEGSLS  
FQTKC\*EVWNQVPI SPL\*KWVEFTCLSTGLPRNATDTPLFSAMTAIILYPW\*P\*RTVGLKSELFHLLTET  
GEDLKT\*KFTF\*QILKMR\*RRSS\*KST\*W\*\*KSPSKAGTMAQLISSMPQSWMKLTYQKKSIIW\*MITLNLF  
SMSTRNGRKTASRGGERGTPRIPWNLPCPSFLSWM\*NVKRPTAPSSCL\*TPSLYAMSAQRGGKRIKINSQ  
S\*TPSRALRGLAWRSGPLGEKPMSPWRGTLRSPLGGLIRPHRQHPALFCSVRPLP\*SAGAPAAPSH\*MC  
STTDFVNVATTPGNFTPATPQTQGTWIPGSAKPASRMLPGHLMGSAVLASKGLQQRPPASAPASLLPV  
TSVPSQIPRGSSGAPPRILATELETTPLLAACLKHLGLGTGRGRASAEKPAACILGLQKTRAFHCVSS  
STEKTNILLLPQKSVQRPGSRTPFRAWGGNAAPLEAPCLKDTARVSLKLRIRDFMRPKGQKSN\*DR  
SAEMCLEPHKAPQGPSAPGPPARTSWPAAARSSAWSVSIPTRGWALGPTGVSLPPKTPPSSVAGPPPVII  
LAMP SATATATNAFSSSRM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

## Chromatograms:

[https://cdn.origene.com/chromatograms/mg3422\\_a01.zip](https://cdn.origene.com/chromatograms/mg3422_a01.zip)

## Restriction Sites:

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001270508

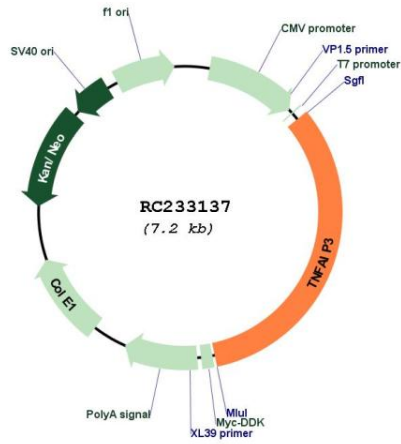
**ORF Size:** 2370 bp

**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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001270508.2</a>
<b>RefSeq Size:</b>	4753 bp
<b>RefSeq ORF:</b>	2373 bp
<b>Locus ID:</b>	7128
<b>UniProt ID:</b>	<a href="#">P21580</a>
<b>Cytogenetics:</b>	6q23.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	NOD-like receptor signaling pathway
<b>MW:</b>	89.6 kDa
<b>Gene Summary:</b>	This gene was identified as a gene whose expression is rapidly induced by the tumor necrosis factor (TNF). The protein encoded by this gene is a zinc finger protein and ubiquitin-editing enzyme, and has been shown to inhibit NF-kappa B activation as well as TNF-mediated apoptosis. The encoded protein, which has both ubiquitin ligase and deubiquitinase activities, is involved in the cytokine-mediated immune and inflammatory responses. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RC233137