

Product datasheet for **RG218682**

TRAF3 (NM_003300) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRAF3 (NM_003300) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRAF3
Synonyms:	CAP-1; CAP1; CD40bp; CRAF1; IIAE5; LAP1; RNF118
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218682 representing NM_003300
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTCGAGTAAAAGATGGACTCTCCTGGCGCGTGCAGACTAACCCGCCGCTAAAGCTGCACACTG
 ACCGCAGTGTGGGACGCCAGTTTTTGTCCCTGAACAAGGAGTTACAAGGAAAAGTTTGTGAAGACCGT
 GGAGGACAAGTACAAGTGTGAGAAGTGCCACCTGGTGTGTGCAGCCGAAGCAGACCGAGTGTGGGCAC
 CGCTTCTGCGAGAGCTGCATGGCGGCCCTGCTGAGCTCTTCAAGTCCAAAATGTACAGCGTGTCAAGAGA
 GCATCGTTAAAGATAAGGTGTTAAGGATAATTGCTGCAAGAGAGAAAATTCTGGCTCTTCAGATCTATTG
 TCGGAATGAAAGCAGAGGTTGTGCAGAGCAGTTAATGCTGGGACATCTGCTGGTGCATTTAAAAATGAT
 TGCCATTTTGAAGAACTCCATGTGTGCGTCTGACTGCAAAGAAAAGGCTTGAGGAAAGACCTGCGAG
 ACCACGTGGAGAAGGCGTGTAAATACCGGGAAGCCACATGCAGCCACTGCAAGAGTCAGGTTCCGATGAT
 CGCGCTGCAGAAACAGAACACCGACTGTCCCTGCGTGGTGGTGTCTGCCCTACAAGTGCAGCGTC
 CAGACTCTCTGAGGAGCGAGTTGAGTGCACACTTGTGAGAGTGTCAATGCCCCAGCACCTGTAGTT
 TTAAGCGCTATGGCTGCGTTTTTTCAGGGGACAAACCAGCAGATCAAGGCCACGAGGCCAGCTCCGCCGT
 GCAGCAGTCAACCTGCTGAAGGAGTGGAGCAACTCGCTCGAAAAGAAGGTTTCTTGTTCAGAAATGAA
 AGTGTAGAAAAAACAAGAGCATACAAAGTTTGCACAATCAGATATGTAGCTTTGAAATTGAAATTGAGA
 GACAAAAGGAAATGCTTCGAAATATGAATCCAAAATCCTTCATTTACAGCGAGTGTAGACAGCCAAGC
 AGAGAACTGAAGGAGCTTGACAAGGAGATCCGGCCCTCCGGCAGAAGTGGGAGGAAGCAGACAGCATG
 AAGAGCAGCGTGGAGTCCCTCCAGAACCAGTACCAGCTGGAGAGCGTGGACAAGAGCAGCGGGCAAG
 TGGCTCGGAACACAGGCCTGCTGGAGTCCCAGCTGAGCCGGCATGACCAGATGCTGAGTGTGCACGACAT
 CCGCCTAGCCGACATGGACCTGCGCTTCCAGGTCCTGGAGACCGCCAGCTACAATGGAGTGTCTCATCTGG
 AAGATTCGCGACTACAAGCGGCGGAAGCAGGAGCCGTCATGGGGAAGACCCTGTCCCTTACAGCCAGC
 CTTTCTACACTGGTTACTTTGGCTATAAGATGTGTGCCAGGGTCTACCTGAACGGGGACGGGATGGGGAA
 GGGGACGCACTTGTGCTGTTTTTGTGTCATCATGCGTGGAGAATATGATGCCCTGCTTCTTGGCCGTTT
 AAGCAGAAAGTGACACTCATGCTGATGGATCAGGGTCTCTCGACGTCATTTGGGAGATGCATTCAAGC
 CCGACCCCAACAGCAGCAGCTTCAAGAAGCCACTGGAGAGATGAATATCGCCTCTGGCTGCCAGTCTT
 TGTGGCCCAAAGTGTCTAGAAAATGGGACATATATTAAGATGATACAATTTTTATTAAGTCATAGTG
 GATACTTCGGATCTGCCGATCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG218682 representing NM_003300
 Red=Cloning site Green=Tags(s)

MESSKMDSPGALQTNPPLKLHTRDARSAGTPVFVPEQGGYKEKFKVKTVEDKYKCEKCHLVLCSPKQTECGH
 RFCECMAALLSSSSPKCTACQESIVKDKVFKDNCCREILALQIYCRNESRGCQEQLMLGHLLVHLKND
 CHFEELPCVRPDCKEVLKDLRDHVEKACKYREATCSHCKSQVPMIALQKHEDTDCPCVVVSCPHKCSV
 QTLLRSEL SAHLSECVNAPSTCSFKRYGCVFQGTNQQIKAHEASSAVQHVNLLKEWSNSLEKKVSLQNE
 SVEKNKSIQSLHNQICSFIEIERQKEMLRNNEKILHLQRVIDSQAELKELDKAIRPFRQNWEEADSM
 KSSVESLQNRVTELESVDKSAGQVARNTGLLESQLSRHDQMLSVHDIRLADMDLRFQVLETASYNGVLIW
 KIRDYKRRKQEAVMGKTL SLYSQPFYTYGFGYKMCARVYLNGDGMGKGTLSLFFVIMRGEYDALLPWWF
 KQKVTLMLMDQSSRRHLGDAFKPDPNSSFKKPTGEMNIASGCPVFAQTVLENGTYIKDDTIFIKVIV
 DTSDLDPD

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_003300

ORF Size: 1704 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 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

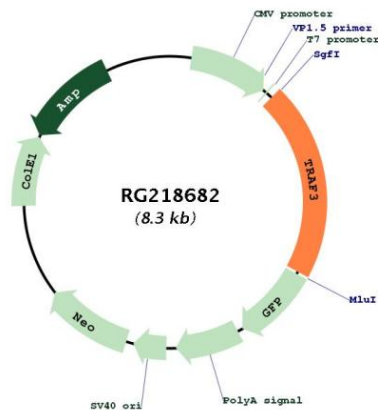
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_003300.4
RefSeq Size:	2428 bp
RefSeq ORF:	1707 bp
Locus ID:	7187
UniProt ID:	Q13114
Cytogenetics:	14q32.32
Domains:	zf-TRAF, RING, MATH
Protein Families:	Druggable Genome
Protein Pathways:	Pathways in cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, Toll-like receptor signaling pathway

Gene Summary: The protein encoded by this gene is a member of the TNF receptor associated factor (TRAF) protein family. TRAF proteins associate with, and mediate the signal transduction from, members of the TNF receptor (TNFR) superfamily. This protein participates in the signal transduction of CD40, a TNFR family member important for the activation of the immune response. This protein is found to be a critical component of the lymphotoxin-beta receptor (LTbetaR) signaling complex, which induces NF-kappaB activation and cell death initiated by LTbeta ligation. Epstein-Barr virus encoded latent infection membrane protein-1 (LMP1) can interact with this and several other members of the TRAF family, which may be essential for the oncogenic effects of LMP1. The protein also plays a role in the regulation of antiviral response. Mutations in this are associated with Encephalopathy, acute, infection-induced, herpes-specific 5. [provided by RefSeq, Jul 2020]

Product images:



Circular map for RG218682