

Product datasheet for **SC118061**

TRAF3 (NM_003300) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | TRAF3 (NM_003300) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | TRAF3 |
| Synonyms: | CAP-1; CAP1; CD40bp; CRAF1; IIAE5; LAP1; RNF118 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF:

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>OriGene sequence for NM_145725 edited
GAATTCGGCACGAGGCCAGCCGGGACTTTCCAGCCGGCGGCAGCCGGCGGCCGCCGG
CTCTTCCCGCCCCCGCCATGGGGCAGCCCGGGGAGCAGAACGCTGCGGACCGCGCGG
AGGACGCGCCCGGCGCCCTGAGCCGGCCGAGCGGCGACGGACCGCGAGATGAGGAAAT
GAGGCCAAAGAAGTGTGCCACTTGGTTAAGGTCCCAGAGCAGGTCAGAATCAGACCTA
GGATCAGAAAACCTGGCTCCTGGCTCCTGGCTCCCTACTTCTAAGGATCGCTGTCTGA
CAGAAGAGAACTCCTCTTTCCTAAAATGGAGTCGAGTAAAAAGATGGACTCTCTGGCGC
GCTGCAGACTAACCCCGCTAAAGCTGCACACTGACCGCAGTGCTGGGACGCCAGTTTT
TGTCCTGAACAAGGAGTTACAAGGAAAAGTTTGTGAAGACCGTGGAGGACAAGTACAA
GTGTGAGAAGTGCCACCTGGTGTGTGCAGCCGAAGCAGACCGAGTGTGGGCACCGCTT
CTGCGAGAGCTGCATGGCGGCCCTGCTGAGCTCTTCAAGTCCAAAATGTACAGCGTGTCA
AGAGAGCATCGTTAAAGATAAGGTGTTAAGGATAATTGCTGCAAGAGAGAAATCTGGC
TCTTCAGATCTATTGTCGAATGAAAGCAGAGGTTGTGCAGAGCAGTTAACGCTGGGACA
TCTGCTGGTGCATTTAAAAAATGATTGCCATTTTGAAGAACTCCATGTGTGCGTCTGA
CTGCAAAAGAAAAGTCTTGAGGAAAAGACCTGCGAGACCACGTGGAGAAGGCGTGTAAATA
CCGGGAAGCCACATGCAGCCACTGCAAGAGTCAGGTTCCGATGATCGCGTGCAGAAACA
CGAAGACACCGACTGTCCCTGCGTGGTGGTGTCCCTGCCCTCACAAGTGCAGCGTCCAGAC
TCTCCTGAGGAGCGAGTTGAGTGCACACTTGTGAGAGTGTGCAATGCCCCAGCACCTG
TAGTTTTAAGCGCTATGGCTGCGTTTTTTCAGGGGACAAACCAGCAGATCAAGGCCACGA
GGCCAGCTCCGCGTGCAGCACGTCACCTGCTGAAGGAGTGGAGCAACTCGCTCGAAAA
GAAGGTTTCTTGTTCAGAAATGAAAGTGTAGAAAAACAAGAGCATACAAAGTTTGCA
CAATCAGATATGAGCTTTGAAATTGAAATTGAGAGACAAAAGGAAATGCTTCGAAATAA
TGATCCAAAATCCTTCATTTACAGCGAGTGTAGACAGCCAAGCAGAGAAAATGAAGGA
GCTTGACAAGGAGATCCGCGCCCTTCCGGCAGAAGTGGGAGGAAGCAGACAGCATGAAGAG
CAGCGTGGAGTCCCTCCAGAACCAGTACCGAGCTGGAGAGCGTGGACAAGAGCGCGGG
GCAAGTGGCTCGGAACACAGGCCTGCTGGAGTCCAGCTGAGCCGGCATGACCAGATGCT
GAGTGTGCAGCAGCATCCGCCTAGCCGACATGGACCTGCGCTTCCAGGTCCTGGAGACCGC
CAGCTACAATGGAGTGTCTATCTGGAAGATTCGCGACTACAAGCGGCGGAAGCAGGAGGC
CGTCATGGGGAAGACCCTGTCCCTTACAGCCAGCCTTCTACACTGGTTACTTTGGCTA
TAAGATGTGTGCCAGGTCTACCTGAACGGGGACGGGATGGGGAAGGGGACGCACCTGTC
GCTGTTTTTGTGCATCATGCGTGGAGAATATGATGCCCTGCTTCTTGGCCGTTTAAAGCA
GAAAGTGACACTCATGCTGATGGATCAGGGTCTCTCGACGTCATTTGGGAGATGCATT
CAAGCCCACCCCAACAGCAGCAGCTTCAAGAAGCCCACTGGAGAGATGAATATCGCCTC
TGGCTGCCAGTCTTTGTGGCCAAACTGTTCTAGAAAATGGGACATATATTAAGATGA
TACAATTTTTATTAAGTCATAGTGGATACTTCGGATCTGCCCGATCCCTGATAAGTAGC
TGGGGAGGTGGATTTAGCAGAAGGCAACTCCTCTGGGGGATTTGAACCGGTCTGTCTTCA
CTGAGGTCCTCGCGCTCAGAAAAGGACCTTGTGAGACGGAGGAAGCGGCAGAAGGCGGAC
GCGTGCCGGCGGGAGGAGCCACGCGTGTGACACACCTGACACGTTTTATAATAGACTAGCC
ACACTTCACTCTGAAGAATTATTTATCCTTCAACAAGATAAATATTGCTGTCAGAGAAGG
TTTTCATTTTCATTTTTAAAGATCTAGTTAATTAAGGTGAAAAACATATATGCTAAACAA
AAGAAACATGATTTTTCTTCTTAAACTTGAACACCAAAAAAACACACACACACACAC
GTGGGATAGCTGGACATGTCAGCATGTTAAGTAAAAGGAGAATTTATGAAATAGTAATG
CAATTCTGATATCTTCTTCTAAAATCAAGAGTGCAATTTTGTTCAAATACAGTATAT
TGCTATTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACTCGAC
    
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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_003300 unedited</p> <pre>TGGCAGAAATTTGTATACGACTCACTATAGGGGCGGCCGGAATTCGCACGAGGCCAGC CGGGACTTTCCAGCCGGCGCAGCCGCGGGCCGGCTTTCCCGCCCCCGCCAT GGGGCAGCCCGGGGAGCAGAACGCTGCGGACCGCGGGAGGACGCGCCGGCGCCCTG AGCCGGCCGAGCGGCACGGACCGCGAGATGAGGAAAAAGAGGCCAAAGAAGTATGCC ACTTGGTTAAGGTCCCAGAGCAGGTGAGAATCAGACCTAGGATCAGAAACCTGGCTCTG GCTCTGGCTCCCTACTTTCTAAGGATCGTGTCTGACAGAAGAGAAGTCTCTTTCC TAAAATGGAGTCGAGTAAAAAGATGGACTCTCCTGGCGCGCTGCAGACTAACCCGCGCT AAAGCTGCACACTGACCCGAGTGTGGGACGCCAGTTTTTGTCCCTGAACAAGGAGGTTA CAAGGAAAAGTTTGTGAAGACCGTGGAGGACAAGTACAAGTGTGAGAAGTGCCACCTGGT GCTGTGCAGCCGAAGCAGACCGAGTGTGGGACCGCTTCTGCGAGAGCTGCATGGCGGC CCTGCTGAGCTTTCAAGTCCAAAATGTACAGCGTGTCAAGAGAGCATCGTTAAAGATAA GGTGTAAAGGATAATTGCTGCAAGAGAGAAAATCTGGCTTTCAGATCTATTGTCGGAA TGAAGCAGAGGTTGTGCAGAGCAGTTAACGCTGGGACATCTGCTGGTGCATTTAANAAA TGATTGCCATTNTGAAGAACTCCATGTGTGCGTNCCTGACTGCAAGAAAAGGGTCTGAGG GAAGACCTGCGAGACCAGTGGAGAANGCGTGNTAATACCGGGAAGCCACATGCAGNCC TGCAGAAGTCAGGNTCCGATGATCGCGTGCAGAACACGAAGACACGACTGGCCTGCGGT GGTGG</pre> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_003300 unedited</p> <pre>TTTGGCCGCGCCGATTCTANAGNCGAGNTCTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTAAAAAAAACAATACTGTATTTGAAAACAAAATGCACTCTTGAATTTAACA AAAAGATACAAAATTGCATTACTATTTTCATAAATTCTCTTTTACTTAACATGCTGAC ATGTCCAGCTATCCCCACGGGGTGTGTGTGCGTGCTTTTTTGGGGCTCAAGTTAAGGA AAAAAACCATGTTTTTTTGTAAACCATATATGTTTTCCACCTAATTAATACTAAATCTT TAAAAACGAAAATGAAAACCTTCTCTGACAGAAAATATTTATCTTGTGAAGGATAAATAA TTCTTCAAAGGGAAGGGTGGTTAGCCTATTATAAAACGTGTCAGGTGTGCTCCCGGGG TTCCTTCCGCGGAACGCGCCCGCTTTTTGCCGTTTCTCCGCTCACAAGGTCTTTTTT TGAGCCGAGGACCTCAGGGAACAGACCGGCTCAAATCCCCCAGAGGAGTTGCCTTTT GTTAAATCCACTCCCCAGCTACTTATTAGGGATCGGGCAGATCCGAAGTATCCACTATG ACTTTAATAAAAAATTGCATCATCTTTACAATACGTCCCATTTTCTAGAACAGTTTGCCTC ACAAAGCACTGTGACCCAGAGGCCATATCTATTTCTCCGCGGGCTACTTGAACCCGN TGCTGTTGCGGTGCGGCTGAACCCCTCCCAAAGACCGCAAAGCACCCGACCCATAG CATGAGTGTCACTTCTGCTTAACGGCCAGGAAGAGGCCTATTTTTCCCCCGGAGACAA AAACGTGAAGGGGCGCTCTCCCATCCGTCCCGTAAGGCAAACCTGGCCACCTTTATA CCCAGAACCCTGAAAAAGTTGTTTGAAGGAAGGGTTTCCAGAGGCCTTCGT</pre> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_003300 |
| Insert Size: | 2600 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| OTI Annotation: | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| 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_003300.2](#), [NP_003291.2](#)

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]

Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1 and 3 both encode the same isoform (1). **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.