

Product datasheet for **SC309131**

TRAF3 (NM_145725) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRAF3 (NM_145725) 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: >OriGene sequence for NM_145725 edited
 GAATTCGGCACGAGGCCAGCCGGGACTTTCCAGCCGGCGGCAGCCGCGGCCGCCGG
 CTCTTCCCGCCCCCGCCATGGGGCAGCCCGGGGAGCAGAACGCTGCGGACCGCGCGG
 AGGACGCGCCCGCGCCCTGAGCCGGCCGAGCGGCGACGGACCGCGAGATGAGGAAAT
 GAGGCCAAAGAAGTGATGCCACTTGGTTAAGGTCCCAGAGCAGGTCAGAATCAGACCTA
 GGATCAGAAAACCTGGCTCCTGGCTCCTGGCTCCCTACTTCTAAGGATCGCTGTCTGA
 CAGAAGAGAAGTCTCTTCTTCTAAAATGGAGTCGAGTAAAAAGATGGACTCTCTGGCGC
 GCTGCAGACTAACCCCGCGCTAAAGCTGCACACTGACCGCAGTGCTGGGACGCCAGTTTT
 TGTCCTGAACAAGGAGGTTACAAGGAAAAGTTTGTGAAGACCGTGGAGGACAAGTACAA
 GTGTGAGAAGTGCCACCTGGTGTGTGCAGCCGAAGCAGACCGAGTGTGGGCACCGCTT
 CTGCGAGAGCTGCATGGCGGCCCTGCTGAGCTCTTCAAGTCCAAAATGTACAGCGTGTCA
 AGAGAGCATCGTTAAAGATAAGGTGTTAAGGATAATTGCTGCAAGAGAGAAATTTCTGGC
 TCTTCAGATCTATTGTCGGAATGAAAGCAGAGGTTGTGCAGAGCAGTTAACGCTGGGACA
 TCTGCTGGTGCATTTAAAAAATGATTGCCATTTTGAAGAACTTCCATGTGTGCGTCTGA
 CTGCAAAAGAAAAGTCTTGAGGAAAAGACCTGCGAGACCACGTGGAGAAGGCGTGTAAATA
 CCGGGAAGCCACATGCAGCCACTGCAAGAGTCAGGTTCCGATGATCGCGTGCAGAAACA
 CGAAGACACCGACTGTCCCTGCGTGGTGGTGTCCCTGCCCTCACAAGTGCAGCGTCCAGAC
 TCTCCTGAGGAGCGAGTTGAGTGCACACTTGTGAGAGTGTGCAATGCCCCAGCACCTG
 TAGTTTTAAGCGCTATGGCTGCGTTTTTTCAGGGGACAAACCAGCAGATCAAGGCCACGA
 GGCCAGCTCCGCGTGCAGCACGTCACCTGCTGAAGGAGTGGAGCAACTCGCTCGAAAA
 GAAGGTTTCTTGTTCGAGAATGAAAGTGTAGAAAAACAAGAGCATACAAAGTTTGCA
 CAATCAGATATGATGCTTTGAAATTGAAATTGAGAGACAAAAGGAAATGCTTCGAAATAA
 TGAATCCAAAATCCTTCAATTTACAGCGAGTGATAGACAGCCAAGCAGAGAACTGAAGGA
 GCTTGACAAGGAGATCCGCGCCCTTCCGGCAGAAGTGGGAGGAAGCAGACAGCATGAAGAG
 CAGCGTGGAGTCCCTCCAGAACCCTGACCGAGCTGGAGAGCGTGGACAAGAGCGCGGG
 GCAAGTGGCTCGGAACACAGGCCTGCTGGAGTCCAGCTGAGCCGGCATGACCAGATGCT
 GAGTGTGCAGCATCCGCTAGCCGACATGGACCTGCGCTTCCAGGTCCTGGAGACCGC
 CAGCTACAATGGAGTGTCTATCTGGAAGATTCGCGACTACAAGCGGCGGAAGCAGGAGGC
 CGTCATGGGGAAGACCCTGTCCCTTTACAGCCAGCCTTTCTACACTGGTACTTTGGCTA
 TAAGATGTGTGCCAGGTCTACCTGAACGGGGACGGGATGGGGAAGGGGACGCATTGTC
 GCTGTTTTTTGTCATCATGCGTGGAGAATATGATGCCCTGCTTCTTGGCCGTTTAAAGCA
 GAAAGTGACACTCATGCTGATGGATCAGGGTCTCTCGACGTCATTTGGGAGATGCATT
 CAAGCCCAGCCCAACAGCAGCAGCTTCAAGAAGCCCACTGGAGAGATGAATATCGCCTC
 TGGCTGCCAGTCTTTGTGGCCAAACTGTTCTAGAAAATGGGACATATATTAAGATGA
 TACAATTTTTATTAAGTCATAGTGGATACTTCGGATCTGCCCGATCCCTGATAAGTAGC
 TGGGGAGGTGGATTTAGCAGAAGGCAACTCCTCTGGGGGATTTGAACCGGTCTGTCTTCA
 CTGAGGTCCTCGCGCTCAGAAAAGGACCTTGTGAGACGGAGGAAGCGGCAGAAGGCGGAC
 GCGTGCCGGCGGGAGGAGCCACGCGTGTGACACACCTGACACGTTTTATAATAGACTAGCC
 ACACCTCACTCTGAAGAATTATTTATCCTTCAACAAGATAAATATTGCTGTCAGAGAAGG
 TTTTCATTTTCATTTTTAAAGATCTAGTTAATTAAGGTGGAAAACATATATGCTAAACAA
 AAGAAACATGATTTTTCTTCTTAAACTTGAACACCAAAAAAACACACACACACACAC
 GTGGGATAGCTGGACATGTGAGCATGTTAAGTAAAAGGAGAATTTATGAAATAGTAATG
 CAATTCTGATATCTTCTTCTAAAATCAAGAGTGCAATTTTGTTCAAATACAGTATAT
 TGTCTATTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACTCGAC

Restriction Sites: Please inquire
ACCN: NM_145725
Insert Size: 2600 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>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.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_145725.1, NP_663777.1</p>
RefSeq Size:	<p>2567 bp</p>
RefSeq ORF:	<p>1707 bp</p>
Locus ID:	<p>7187</p>
UniProt ID:	<p>Q13114</p>
Cytogenetics:	<p>14q32.32</p>
Protein Families:	<p>Druggable Genome</p>
Protein Pathways:	<p>Pathways in cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, Toll-like receptor signaling pathway</p>

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 (1) represents the longest transcript and encodes the longest isoform (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.