

Product datasheet for **SC109844**

TRAF6 (NM_004620) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRAF6 (NM_004620) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRAF6
Synonyms:	MGC:3310; RNF85
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004620 edited
 GAATTCGGCAGGAGGAAGCAGTGGCGTCCGCAGCTGGGGCTTGGCCTGCGGGCGGCCAGC
 GAAGGTGGCGAAGGCTCCCACTGGATCCAGAGTTTCCCGTCCAAGCAGCCTCGTCTCGGC
 GCGCAGTGTCTGTGTCCGTCTCTACCAGCGCCTTGGCTGAGCGAGTCTGTGCGGTTGGT
 GGGGGAGCCCTGCCCTCCTGGTTCGGCCTCCCCGCGCACTAGAACGAGCAAGTGATAATC
 AAGTTACTATGAGTCTGTAAACTGTGAAAACAGCTGTGGATCCAGCCAGTCTGAAAAGTG
 ACTGCTGTGTGGCCATGGCCAGCTCCTGTAGCGCTGTAACAAAAGATGATAGTGTGGGTG
 GAACTGCCAGCACGGGAACCTCTCCAGCTCATTATGGAGGAGATCCAGGGATATGATG
 TAGAGTTTGACCCACCCCTGGAAAGCAAGTATGAATGCCCATCTGCTTGTGGCATTAC
 GAGAAGCAGTGCAAACGCCATGCGGCCATAGGTTCTGCAAAGCCTGCATCATAAAATCAA
 TAAGGGATGCAGTGCACAAATGTCCAGTTGACAATGAAATACTGTGGAAAATCAACTAT
 TTCCAGACAATTTTGCAAACGTGAGATTCTTTCTCTGATGGTGAATGTCCAAATGAAG
 GTTGTTCACAAAGATGGAAGTGGACATCTTGAGGATCATCAAGCACATTGTGAGTTTG
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 TTCTGAAGGATTGTCCAAGGAGACAGGTTTCTTGTGACAACTGTGCTGCATCAATGGCAT
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 GCAATACTATACTCATCAGAGAACAGATGCCTAATCATTATGATCTAGACTGCCCTACAG
 CCCCAATTCATGCACATTCAGTACTTTTGGTTGCCATGAAAAGATGCAGAGGAATCACT
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 CTATTCACCAAGTTAGAGGTCGCTTGTGTAAGACAAGACCATCAAATCCGGGAGCTGACTG
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 AGGACAAAGTTGCTGAAATCGAAGCACAGCAGTGAATGGAATTTATATTTGGAAGATTG
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 CGACTGCTCAGCGCTGTGCAAATATATATCCCTTTTGTCCACACAATGCAAGGAGAAT
 ATGACAGCCACCTCCCTTGGCCCTTCCAGGGTACAATACGCCTTACAATCTTGATCAGT



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CTGAAGCACCTGT AAGGCAAACACGAAGAGATAATGGATGCCAAACCAGAGCTGCTTG
 CTTTCCAGCGACCCACAATCCCACGGAACCCAAAAGGTTTTGGCTATGTAACTTTTATGC
 ATCTGGAAGCCCTAAGACAAAGAAGCTTTTATTAAAGGATGACACATTATTAGTGCGCTGTG
 AGGTCTCCACCCGCTTTGACATGGGTAGCCTTCGGAGGGAGGGTTTTAGCCACGAAGTA
 CTGATGCAGGGGTATAGCTTGCCTCAGTCTGCTCAAAAACAACACTACCTGGAGAAAACAGT
 GCCTTTCCCTTGCCTGTTCTCAATAACATGCAAACAAACAAGCCACGGGAAATATGTAAT
 ATCTACTAGTGAGTGTTGTTAGAGAGGTCAGTACTACTATTTCTCTGTTACAAATGATCT
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 TAAGTTCCAACCAGCAGAACACTGACAATACTTAGGAAAGTATTTTGCCAGTATAAAATG
 TCTTTAACTTACTCTTGTGACTGATACTTCTCTAATTTAGTGTCTATCAGCTGG
 GTCACATCTTAAGTAAAATGAGCAATTTAACCCTCAACATTTGGCATTGTTGTCATAAAC
 CAGCCAGTTATTTATGCTGGTCAATCATCTTGACTACAAAGTAGAATAGTCAAGCTGTC
 ATTCAAAATAGAAAACCTTTTACTTCAATCAGAATTAAGCCTTAACCTGGAAAGTTGGTT
 TCTTCTTACATTTTCCCAATCTCTACTCTATTCTTAAACATGTAGTTTCACTCAGTT
 GGGTATACAAGCCTTTGGGCTTTATGTTGTATGTTACTAACACCTTTTACCATATTTAT
 CTTTTGGCATCATTCTGGGACATTGCTAAATTAATAAAAGAAATGTTTCCACTTTTTTCT
 GGAGATGTTCAACTAAAGTTGTTTTGTTTTGTTTTGTTTTGAGACAGTCTCACCCT
 GCACTCCAGTCTGGGCAACAGAGCGAGACTCCTTCTCAAAAAAAAAAAAAAAAAAAAAAC
 TCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004620 unedited
 GACTCACTATAGGGCGGCCGGAATTTCGCACGAGGAAGCAGTGGCGTCCGAGCTGGGGC
 TTGGCCTGCGGGCGGCCAGCGAAGGTGGCGAAGGCTCCCACTGGATCCAGAGTTTGCCGT
 CCAAGCAGCCTCGTCTCGGCGCGCAGTGTCTGTGTCCGTCTACCAGCGCCTTGGCTG
 AGCGGAGTCGTGCGGTTGGTGGGGAGCCCTGCCCTCCTGGTTCGGCCTCCCGCGCACT
 AGAACGAGCAAGTGATAATCAAGTTACTATGAGTCTGCTAAACTGTGAAAACAGCTGTGG
 ATCCAGCCAGTCTGAAAGTACTGCTGTGTGGCCATGGCCAGCTCCTGTAGCGCTGTAAC
 AAAAGATGATAGTGTGGGTGGAAGTCCAGCAGCGGGGAACCTCTCCAGCTCATTTATGGA
 GGAGATCCAGGGATATGATGTAGAGTTTGACCCACCCCTGGAAAGCAAGTATGAATGCC
 CATCTGCTTGATGGCATTACGAGAAGCAGTGCAAACGCCATGCGGCCATAGGTTCTGCAA
 AGCCTGCATCATAAAATCAATAAGGNATGCAGGTCAACAATGTCCAGTTGACAATGAAA
 TACTGCTGAAAAATCAACTATTTCCAGACAATTTGAAAACGTGAGATTCTTTCTCTNG
 ATGGTGAATGTCCAATGAAAGTTGTTTGACAAGATGGAAGTGGAGACATCTTNGAGGA
 TCATCAAGCACATTTGTGAGTTTGTCTTATGGGATTGTNCCATGCCAGCGTCCCTTCC
 AAAAAATCATATTATATTACATTCTGGAAAGATGTCCAGGGAACAGGGTTTCTTGTGACA
 CTGTGCTGCATCATGGCATTGAGATAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004620 unedited
 GGTCTTCCTTGGCCGCGGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTGA
 GAAGAGTCTCGTCTGTGGCCAGACTGGAGTGCAGTGGTGGAGACTGTCTCAAAACAAAA
 AACAAAACAAAACAACCTTTAGTTGAACATCTCCAGAAAAAGTGAAACAATTTCTTTT
 TTAATTTAGCAATGTCCAGAATGATGCCAAAAGATAAATATGGTAAAAGGTGGTTAGTA
 ACATACAACATAAAGCCCAAAGGCTTGTATACCCAAGTGAAGTAACTAGCATGTTTAAG
 AATAGAGTAGGAGATTGGGAAAATGTAAGGAAGAAACCAACTTTCCAGGTTAAGGCTTAA
 TTCTGATTGAAGTAAAAGTTTTCTATTTGGAATGACAGCTTGACTATTCTACTTTGTAG
 TCAAGATGAATGACCAGCATAAAATAACTGGCTGGTTTATGACAAAATGCCAAATGTTGG
 GGGTAAAATTGCTCATTTTACTTAAGATGTGACCCAGCTGATAGACACTAAATTAGAGG
 AAAGTATCAGTGTGACAAAGAGTAAGTTAAAGACATTTTATACTGGCAAATACTTTCC
 TAAGTATTGTGAGTGTCTGCTGGTGGAACTTAATTTGAGACAGAATGTTATGGCTGGA
 GGGGACTCTAGAAAATATCTGGTCCAAATCATTTTACAGATGGGAAGCTTGCTAAAAGCTG
 AAATTANGCAAAAACAACCTTTNTTTTTAATAAAGACTCTTGAGTTAGTAGAAAAAATAGT
 ATCACCAAAGCAGGAAATGACTCCTTTGTATCTAATGCACAGCCAGTCTTTTAATAG
 AAATCTGACCAGGAAGCCTTTAAATATACTTTCCCTTTTTTGGAGCTGGGGCGTGGAGAT
 AAATTGTTTTGTGGCAACACTTAATT

Restriction Sites:

NotI-NotI

ACCN:

NM_004620

Insert Size:

4470 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).

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:	<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:	NM_004620.2 , NP_004611.1
RefSeq Size:	2515 bp
RefSeq ORF:	1569 bp
Locus ID:	7189
UniProt ID:	Q9Y4K3
Cytogenetics:	11p12
Domains:	zf-TRAF, RING, MATH
Protein Families:	Druggable Genome
Protein Pathways:	Endocytosis, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Pathways in cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, Toll-like receptor signaling pathway, Ubiquitin mediated proteolysis
Gene Summary:	<p>The protein encoded by this gene is a member of the TNF receptor associated factor (TRAF) protein family. TRAF proteins are associated with, and mediate signal transduction from, members of the TNF receptor superfamily. This protein mediates signaling from members of the TNF receptor superfamily as well as the Toll/IL-1 family. Signals from receptors such as CD40, TNFSF11/RANCE and IL-1 have been shown to be mediated by this protein. This protein also interacts with various protein kinases including IRAK1/IRAK, SRC and PKCzeta, which provides a link between distinct signaling pathways. This protein functions as a signal transducer in the NF-kappaB pathway that activates I kappa B kinase (IKK) in response to proinflammatory cytokines. The interaction of this protein with UBE2N/UBC13, and UBE2V1/UEV1A, which are ubiquitin conjugating enzymes catalyzing the formation of polyubiquitin chains, has been found to be required for IKK activation by this protein. This protein also interacts with the transforming growth factor (TGF) beta receptor complex and is required for Smad-independent activation of the JNK and p38 kinases. This protein has an amino terminal RING domain which is followed by four zinc-finger motifs, a central coiled-coil region and a highly conserved carboxyl terminal domain, known as the TRAF-C domain. Two alternatively spliced transcript variants, encoding an identical protein, have been reported. [provided by RefSeq, Feb 2012]</p> <p>Transcript Variant: This variant (2) lacks a segment in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>