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Product datasheet for SC109845

TRAF6 (NM_145803) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRAF6 (NM_145803) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRAF6
Synonyms:	MGC:3310; RNF85
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene sequence for NM_145803 edited
GAATTCGGCACGAGCAGTGGCGTCCGCAGCTGGGGCTTGGCCTGCGGGCGGCCAGCGAAG
GTGGCGAAGGCTCCCACTGGATCCAGAGTTTGCCGTCCAAGCAGCCTCGTCTCGGCGCGC
AGTGTCTGTGTCCGTCCTCTACCAGCGCCTTGGCTGAGCGGAGTCGTGCGGTTGGTGGGG
GAGCCCTGCCCTCCTGGTTCGGCCTCCCCGCGCACTAGAACGAGCAAGTGATAATCAAGT
TACTATGAGTCTGCTAAACTGTGAAAACAGCTGTGGATCCAGCCAGTCTGAAAGTGACTG
CTGTGTGGCCATGGCCAGCTCCTGTAGCGCTGTAACAAAAGATGATAGTGTGGGTGGAAC
TGCCAGCACGGGGAACCTCTCCAGCTCATTTATGGAGGAGATCCAGGGATATGATGTAGA
GTTTGACCCACCCCTGGAAAGCAAGTATGAATGCCCCATCTGCTTGATGGCATTACGAGA
AGCAGTGCAAACGCCATGCGGCCATAGGTTCTGCAAAGCCTGCATCATAAAATCAATAAG
GGATGCAGGTCACAAATGTCCAGTTGACAATGAAATACTGCTGGAAAATCAACTATTTCC
AGACAATTTTGCAAAACGTGAGATTCTTTCTCTGATGGTGAAATGTCCAAATGAAGGTTG
TTTGCACAAGATGGAACTGAGACATCTTGAGGATCATCAAGCACATTGTGAGTTTGCTCT
TATGGATTGTCCCCAATGCCAGCGTCCCTTCCAAAAATTCCATATTAATATTCACATTCT
GAAGGATTGTCCAAGGAGACAGGTTTCTTGTGACAACTGTGCTGCATCAATGGCATTTGA
AGATAAAGAGATCCATGACCAGAACTGTCCTTTGGCAAATGTCATCTGTGAATACTGCAA
TACTATACTCATCAGAGAACAGATGCCTAATCATTATGATCTAGACTGCCCTACAGCCCC
AATTCCATGCACATTCAGTACTTTTGGTTGCCATGAAAAGATGCAGAGGAATCACTTGGC
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TCACCAGTTAGAGGGTCGCCTTGTAAGACAAGACCATCAAATCCGGGAGCTGACTGCTAA
AATGGAAACTCAGAGTATGTATGTAAGTGAGCTCAAACGAACCATTCGAACCCTTGAGGA
CAAAGTTGCTGAAATCGAAGCACAGCAGTGCAATGGAATTTATATTTGGAAGATTGGCAA
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CCAGCGACCCACAATCCCACGGAACCCAAAAGGTTTTGGCTATGTAACTTTTATGCATCT
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CTCCACCCGCTTTGACATGGGTAGCCTTCGGAGGGAGGGTTTTCAGCCACGAAGTACTGA
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ACTAGTGAGTGTTGTTAGAGAGGTCACTTACTATTTCTTCCTGTTACAAATGATCTGAGG
CAGTTTTTTCCTGGGAATCCACACGTTCCATGCTTTTTCAGAAATGTTAGGCCTGAAGTG
CCTGTGGCATGTTGCAGCAGCTATTTTGCCAGTTAGTATACCTCTTTGTTGTACTTTCTT
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CAGCCTTAATTTCAAGAGAAAGCCAAGGACCTCATCTGCAGGGGAGTGTGGTTTTCAGCC
CCAGCGAGTGTCACTTTGAACTTTCCCTTTGCTTTTTTCTCTCTTCTCCCTCCCCACCCA
CCCTTAGGCTCCTGATCTGGTGAGTTTGTTATGGAGTGAAAATAAAAGTCAAGCAGAGAC
CTTGTTTCCCGTGCCACCATTAGTACCACAAGCTCATGGCTAGTTACCACATTACTTCCT
GGCAGTTTGTGTCCCTCAGCTGTGCCTTCCAACCAGCGCCTGAGAATCACTGCATACCAC
CCTCTAGGTAGGGAAACCTACACTGCTGCTGTTCCTGTGATTATTTTACAATGAATAAAT
AATTGTCAAGTTCCATTTAAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_145803 unedited
GGATTTTGTAATCCGACTTACTATAGGGCGGCCGCGCAATTCGCACGAGCAGTGGCGTCC
GCAGCTGGGGCTTGGCCTGCGGGCGGCCAGCGAAGGTGGCGAAGGCTCCCACTGGATCCA
GAGTTTGCCGTCCAAGCAGCCTCGTCTCGGCGCGCAGTGTCTGTGTCCGTCCTCTACCAG
CGCCTTGGCTGAGCGGAGTCGTGCGGTTGGTGGTGGAGCCCTGCCCTCCTGGTTCGGCCT
CCCCGCGCACTAGAACGAGCAAGTGATAATCAAGTTACTATGAGTCTGCTAAACTGTGAA
AACAGCTGTGGATCCAGCCAGTCTGAAAGTGACTGCTGTATTGGCCATGGCCAGCTCCTG
TAGCGCTGTAACAAAAGATGATAGTGTGGGTGGAACTGCCAGCACGGGGAACCTCTCCAG
CTCATTTATGGAGGAGATCCAGGGATATGATGTAGAGTTTGACCCACCCCTGGAAAGCAA
GTATGAATGCCCCATCTGCTTGATGGCATTACGAGAAGCAGTGCAAACGCCATGCGGCCA
TAGGTTCTGCAAAGCCTGCATCATAAAATCAATAAGGGATGCAGGTCACAAATGTCCAGT
TGACAATGAAATACTGCTGGAAAATCAACTATTTCCAGACAATTTTGCAAAACGTGAGAT
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TCTTGAGGATCATCAAGCACATTGTGAGTTTGCTCTTATGGATTGTCCCCAATGCCAGCG
TCCCTTCCAAAAATTCATATTATATTCACATTCTGANAGATTGTCCAAGGAGACAGGTTT
CTTGTGANCACTGTGCTGCATCAATGGCATTTNGAGATNAAGAGATCCATGACCAGAACT
GTCCTTTGGGCAAGTCATCTGTGAATACTGCNATACTATACTCATCAAAGAACAGATGCC
CTATCATTATGATCTAGACTGGCCTACAGCCCNATTCT

3' Read Nucleotide Sequence:

>OriGene 3' genomic read for NM_145803 unedited
GACACTTATGTACGCGGCCGCATTTTANGATCGAGTTTTTTTTTTTTTTTTTTAAATGG
AACTTGACAATTATTTATTCATTGTAAAATAATCACAGGAACAGCAGCAGTGTAGGTTTC
CCTACCTAGAGGGTGGTATGCAGTGATTCTCAGGCGCTGGTTGGAAGGCACAGCTGAGGG
ACACAAACTGCCAGGAAGTAATGTGGTAACTAGCCATGAGCTTGTGGTACTAATGGTGGC
ACGGGAAACAAGGTCTCTGCTTGACTTTTATTTTCACTCCATAACAAACTCACCAGATCA
GGAGCCTAAGGGTGGGTGGGGAGGGAGAAGAGAGAAAAAAGCAAAGGGAAAGTTCAAAGT
GACACTCGCTGGGGCTGAAAACCACACTCCCCTGCAGATGAGGTCCTTGGCTTTCTCTTG
AAATTAAGGCTGATCTAGAACGCTGGCTGGCGACTCTGATTTGGCCTCTCTGGGGGATAC
AACGTCATCTCTCATTACCAGACAACTTTAAATGGTGGATGGATCTTTAGATCCTTTATA
AGCTTATACTAGTTGCGGGTCTCCCTGAGAACTAGATTCCACGATATTTTATATCTATAT
ATAGGCCTTTAACAAATACATGATGGCACACAAAAAAATCATCTCCCTATTAGGAAAATC
TGGTTACTTCCAGGATTCTACAGGATCCTTCTCAGAACCTGCAGTTGTTAGGCTACAGCA
ACATACTCAAGCTAAGTTGTGATACAACCACTGTGACTTCTAATCCTAGTTGGGTGACCT
CCTAAGTATCTCCCATCATCTCCCAAGTTTTAAAAAATTCTGATTTTTAGAATCAATTTT
GGTCTTTTTAATCGAAATAAACAGAAGTATTCAAAAGACTGAAAACTT

Restriction Sites: NotI-NotI

ACCN: NM_145803

Insert Size: 4000 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
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_145803.1, NP_665802.1
RefSeq Size:	2608 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:

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 IkappaB 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]
Transcript Variant: This variant (1) represents the longer transcript. 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.