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Product datasheet for SC111044

TRAF2 (NM_021138) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRAF2 (NM_021138) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRAF2
Synonyms:	MGC:45012; RNF117; TRAP; TRAP3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene sequence for NM_021138 edited
GAATTCGGCACGAGGGAACCCGTGGTAGCTAAAGGGAGTGCACTAGCCAGCCTCAGGTGT
GCTACGTTCCCGCTCTCGGGGCTGGAGGGGAACCCGTGGTAGCTATAGGGAGTGCACTAG
CCAGCCTCAGATGTGCTACGTTCCCGCTCTCAGGGCTGGAGGGGAACCCGTGGTAGCTAA
AGGGAGTGCACTAGCCAGCTCCAGGTGTGCTACATTCCCGCTCTCGGGGCTGGAGGGGAA
CCCGTGGTAGCTAAAGGGAGTGCACTAGCCAGCCCCAGGTGTGCTACATTCCCGCTCTAG
GGGCTGGTCTGGCGGCATGGCTCTCTCCTGAGTGCCTTCAGAGCCTGAGTGCCAGCAGGC
AGGCGTCTCCTGCCCAGTGGGTTTGGGCTTTGTTCGCGGGGGTCACAGCTCTCATGGCTG
CAGCTAGCGTGACCCCCCCTGGCTCCCTGGAGTTGCTACAGCCCGGCTTCTCCAAGACCC
TCCTGGGGACCAAGCTGGAAGCCAAGTACCTGTGCTCCGCCTGCAGAAACGTCCTCCGCA
GGCCCTTCCAGGCGCAGTGTGGCCACCGGTACTGCTCCTTCTGCCTGGCCAGCATCCTCA
GCTCTGGGCCTCAGAACTGTGCTGCCTGTGTTCACGAGGGCATATATGAAGAAGGCATTT
CTATTTTAGAAAGCAGTTCGGCCTTCCCAGATAATGCTGCCCGCAGGGAGGTGGAGAGCC
TGCCGGCCGTCTGTCCCAGTGATGGATGCACCTGGAAGGGGACCCTGAAAGAATACGAGA
GCTGCCACGAAGGCCGCTGCCCGCTCATGCTGACCGAATGTCCCGCGTGCAAAGGCCTGG
TCCGCCTTGGTGAAAAGGAGCGCCACCTGGAGCACGAGTGCCCGGAGAGAAGCCTGAGCT
GCCGGCATTGCCGGGCACCCTGCTGCGGAGCAGACGTGAAGGCGCACCACGAGGTCTGCC
CCAAGTTCCCCTTAACTTGTGACGGCTGCGGCAAGAAGAAGATCCCCCGGGAGAAGTTTC
AGGACCACGTCAAGACTTGTGGCAAGTGTCGAGTCCCTTGCAGATTCCACGCCATCGGCT
GCCTCGAGACGGTAGAGGGTGAGAAACAGCAGGAGCACGAGGTGCAGTGGCTGCGGGAGC
ACCTGGCCATGCTACTGAGCTCGGTGCTGGAGGCAAAGCCCCTCTTGGGAGACCAGAGCC
ACGCGGGGTCAGAGCTCCTGCAGAGGTGCGAGAGCCTGGAGAAGAAGACGGCCACTTTTG
AGAACATTGTCTGCGTCCTGAACCGGGAGGTGGAGAGGGTGGCCATGACTGCCGAGGCCT
GCAGCCGGCAGCACCGGCTGGACCAAGACAAGATTGAAGCCCTGAGTAGCAAGGTGCAGC
AGCTGGAGAGGAGCATTGGCCTCAAGGACCTGGCGATGGCTGACTTGGAGCAGAAGGTCT
TGGAGATGGAGGCATCCACCTACGATGGGGTCTTCATCTGGAAGATCTCAGACTTCGCCA
GGAAGCGCCAGGAAGCTGTGGCTGGCCGCATACCCGCCATCTTCTCCCCAGCCTTCTACA
CCAGCAGGTACGGCTACAAGATGTGTCTGCGTATCTACCTGAACGGCGACGGCACCGGGC
GAGGAACACACCTGTCCCTCTTCTTTGTGGTGATGAAGGGCCCGAATGACGCCCTGCTGC
GGTGGCCCTTCAACCAGAAGGTGACCTTAATGCTGCTCGACCAGAATAACCGGGAGCACG
TGATTGACGCCTTCAGGCCCGACGTGACTTCATCCTCTTTTCAGAGGCCAGTCAACGACA
TGAACATCGCAAGCGGCTGCCCCCTCTTCTGCCCCGTCTCCAAGATGGAGGCAAAGAATT
CCTACGTGCGGGACGATGCCATCTTCATCAAGGCCATTGTGGACCTGACAGGGCTCTAAC
TGCCCCCTACTGGTGTCTGGGGGTTGGGGGCAGCCAGGCACAGCCGGCTCACGGAGGGGC
CACCACACTGGGCCAGGGTCTCACTGTACAAGTGGGCAGGGGCCGCGCTTGGGCGCTTGG
GAGGGTGTCGGCCTGCAGCCAAGTTCACTGTCACGGGGGAAGGAGCCACCAGCCAGTCCT
CAGATTTCAGAGACTGCGGAGGGGCTTGGCAGACGGTCTTAGCCAAGGGCTGTGGTGGCA
TTGGCCGAGGGTCTTCGGGTGCTTCCCAGCACAAGCTGCCCTTGCTGTCCTGTGCAGTGA
AGGGAGAGGCCCTGGGTGGGGGACACTCAGAGTGGGAGCACATCCCAGCAGTGCCCATGT
AGCAGGAGCACAGTGGATGGCCTTGTGTCCCTCGGGCATGACAGGCAGAAACGAGGGCTG
CTCCAGGAGAAGGGCCTCCTGCTGGCCAGAGCAAGGAAGGCTGAGCAGCTTGGTTCTCCC
CTCTGGCCCCTGGAGAGAAGGGGGAGCATTCCTAGACCCCTGGGTGCTTGTCTGCACAGA
GCTCTGGTCTGTGCCACCTTGGCCAGGCTGGCTGTGGGAGGGTCTGGTCCCACGCCGCCT
CTGCTCAGACCACTGTGTGGGAGGTGCACAGCACAGCCTGCGGGTAAAGTGTGAGAGCTT
GCCATCCAGCTCACGAAGACAGAGTTATTAAACCATTCAAATCTCAAAAAAAAAAAAAAA
AAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_021138 unedited
TACATAATTTGTAATACGACTCACTATAGGGCGGCACGCGAATTCGCACGAGAGGAACCC
GTGGTAGCTAAAGGGAGTGCACTAGCCAGCCTCAGGTGTGCTACGTTCCCGCTCTCGGGG
CTGGAGGGGAACCCGTGGTAGCTATAGGGAGTGCACTAGCCAGCCTCAGATGTGCTACGT
TCCCGCTCTCAGGGCTGGAGGGGAACCCGTGGTAGCTAAAGGGAGTGCACTAGCCAGCTC
CAGGTGTGCTACATTCCCGCTCTCGGGGCTGGAGGGGAACCCGTGGTAGCTAAAGGGAGT
GCACTAGCCAGCCCCAGGTGTGCTACATTCCCGCTCTAGGGGCTGGTCTGGCGGCATGGC
TCTCTCCTGAGTGCCTTCAGAGCCTGAGTGCCAGCAGGCAGGCGTCTCCTGCCCAGTGGG
TTTGGGCTTTGTTCGCGGGGGTCACAGCTCTCATGGCTGCAGCTAGCGTGACCCCCCCTG
GCTCCCTGGAGTTGCTACAGCCCGGCTTCTCCAAGACCCTCCTGGGGACCAAGCTGGAAG
CCAAGTACCTGTGCTCCGCCTGCAGAAACGTCCTCCGCAGGCCCTTCCAGGCGCAGTGTG
GCCACCGGTACTGCTCCTTCTGCCTGGCCAGCATCCTCAGCTCTGGGCCTCAGAACTGTG
CTGCCTGTGTTCACGATGGCATATATGAAGAAGGCATTTCTATTTTAGAAAGCAGTTCGG
CCTTCCCAGATAATGCTGCCCGCANGGAGGTGGAGAGCCTGCNCGCCGTCTGTCCCAGTG
ATGGATGCACCTGGAAGGNGACCCCTGAAGAATACGAGAGCTGCCACGAAAGCCGCTGNC
CGCTCATGCTGACCGAAATGTCCCGCGTGNCAAGGCCTTGGTCGCCTGGNTGAAAATGAG
CGCACCTGGAGCACGGTGCCCCGANAGATCCTGAGCTGCCNGCATTGCGGNCACCTGCTG
CGGACANAGTGAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_021138 unedited
TTTTTTTTTTTTTTTTTNGAAATTTGATGGTTTAATAACTCTGTCTTCGTGAGCTGGATG
GCAAGCTCTCACACTTTACCCGCAGGCTGTGCTGTGCACCTCCCACACAGTGGTCTGAGC
AAAGGCGGCGTGGGACCAGACCCTCCCACAGCCAGCCTGGCCAAGGTGGCACAGACCAGA
GCTCTGTGCAGACAAGCACCCAGGGGTCTAGGAATGCTCCCCCTTCTCTCCAGGGGCCAG
AGGGGAGAACCAAGCTGCTCAGCCTTCCTTGCTCTGGCCAGCAGGAGGCCCTTCTCCTGG
AGCAGCCCTCGTTTCTGCCTGTCATGCCCGAGGGACACAAGGCCATCCACTGTGCTCCTG
CTACATGGGCACTGCTGGGATGTGCTCCCACTCTGAGTGTCCCCCACCCAGGGCCTCTCC
CTTCACTGCACAGGACAGCAAGGGCAGCTTGTGCTGGGAAGCACCCGAAGACCCTCGGCC
AATGCCACCACAGCCCTTGGCTAAGACCGTCTGCCAAGCCCCTCCGCAGTCTCTGAAATC
TGAGGACTGGCTGGTGGCTCCTTCCCCCGTGACAGTGAACTTGGCTGCAGGCCGACACCC
TCCCAAGCGCCCAAGCGCGGCCCCTGCCCACTTGTA

Restriction Sites: NotI-NotI

ACCN: NM_021138

Insert Size: 2560 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:
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_021138.3, NP_066961.2
RefSeq Size:	2298 bp
RefSeq ORF:	1506 bp
Locus ID:	7186
UniProt ID:	Q12933
Cytogenetics:	9q34.3
Domains:	zf-TRAF, RING, MATH
Protein Families:	Druggable Genome
Protein Pathways:	Adipocytokine signaling pathway, Apoptosis, MAPK signaling pathway, Pathways in cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer
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 superfamily. This protein directly interacts with TNF receptors, and forms a heterodimeric complex with TRAF1. This protein is required for TNF-alpha-mediated activation of MAPK8/JNK and NF-kappaB. The protein complex formed by this protein and TRAF1 interacts with the inhibitor-of-apoptosis proteins (IAPs), and functions as a mediator of the anti-apoptotic signals from TNF receptors. The interaction of this protein with TRADD, a TNF receptor associated apoptotic signal transducer, ensures the recruitment of IAPs for the direct inhibition of caspase activation. BIRC2/c-IAP1, an apoptosis inhibitor possessing ubiquitin ligase activity, can unbiquitinate and induce the degradation of this protein, and thus potentiate TNF-induced apoptosis. Multiple alternatively spliced transcript variants have been found for this gene, but the biological validity of only one transcript has been determined. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) encodes a longer isoform (1).