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Product datasheet for RC208110

TRAF2 (NM_021138) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRAF2 (NM_021138) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRAF2
Synonyms:	MGC:45012; RNF117; TRAP; TRAP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC208110 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGCAGCTAGCGTGACCCCCCCTGGCTCCCTGGAGTTGCTACAGCCCGGCTTCTCCAAGACCCTCC
TGGGGACCAAGCTGGAAGCCAAGTACCTGTGCTCCGCCTGCAGAAACGTCCTCCGCAGGCCCTTCCAGGC
GCAGTGTGGCCACCGGTACTGCTCCTTCTGCCTGGCCAGCATCCTCAGCTCTGGGCCTCAGAACTGTGCT
GCCTGTGTTCACGAGGGCATATATGAAGAAGGCATTTCTATTTTAGAAAGCAGTTCGGCCTTCCCAGATA
ATGCTGCCCGCAGGGAGGTGGAGAGCCTGCCGGCCGTCTGTCCCAGTGATGGATGCACCTGGAAGGGGAC
CCTGAAAGAATACGAGAGCTGCCACGAAGGCCGCTGCCCGCTCATGCTGACCGAATGTCCCGCGTGCAAA
GGCCTGGTCCGCCTTGGTGAAAAGGAGCGCCACCTGGAGCACGAGTGCCCGGAGAGAAGCCTGAGCTGCC
GGCATTGCCGGGCACCCTGCTGCGGAGCAGACGTGAAGGCGCACCACGAGGTCTGCCCCAAGTTCCCCTT
AACTTGTGACGGCTGCGGCAAGAAGAAGATCCCCCGGGAGAAGTTTCAGGACCACGTCAAGACTTGTGGC
AAGTGTCGAGTCCCTTGCAGATTCCACGCCATCGGCTGCCTCGAGACGGTAGAGGGTGAGAAACAGCAGG
AGCACGAGGTGCAGTGGCTGCGGGAGCACCTGGCCATGCTACTGAGCTCGGTGCTGGAGGCAAAGCCCCT
CTTGGGAGACCAGAGCCACGCGGGGTCAGAGCTCCTGCAGAGGTGCGAGAGCCTGGAGAAGAAGACGGCC
ACTTTTGAGAACATTGTCTGCGTCCTGAACCGGGAGGTGGAGAGGGTGGCCATGACTGCCGAGGCCTGCA
GCCGGCAGCACCGGCTGGACCAAGACAAGATTGAAGCCCTGAGTAGCAAGGTGCAGCAGCTGGAGAGGAG
CATTGGCCTCAAGGACCTGGCGATGGCTGACTTGGAGCAGAAGGTCTTGGAGATGGAGGCATCCACCTAC
GATGGGGTCTTCATCTGGAAGATCTCAGACTTCGCCAGGAAGCGCCAGGAAGCTGTGGCTGGCCGCATAC
CCGCCATCTTCTCCCCAGCCTTCTACACCAGCAGGTACGGCTACAAGATGTGTCTGCGTATCTACCTGAA
CGGCGACGGCACCGGGCGAGGAACACACCTGTCCCTCTTCTTTGTGGTGATGAAGGGCCCGAATGACGCC
CTGCTGCGGTGGCCCTTCAACCAGAAGGTGACCTTAATGCTGCTCGACCAGAATAACCGGGAGCACGTGA
TTGACGCCTTCAGGCCCGACGTGACTTCATCCTCTTTTCAGAGGCCAGTCAACGACATGAACATCGCAAG
CGGCTGCCCCCTCTTCTGCCCCGTCTCCAAGATGGAGGCAAAGAATTCCTACGTGCGGGACGATGCCATC
TTCATCAAGGCCATTGTGGACCTGACAGGGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208110 protein sequence
Red=Cloning site Green=Tags(s)

MAAASVTPPGSLELLQPGFSKTLLGTKLEAKYLCSACRNVLRRPFQAQCGHRYCSFCLASILSSGPQNCA
ACVHEGIYEEGISILESSSAFPDNAARREVESLPAVCPSDGCTWKGTLKEYESCHEGRCPLMLTECPACK
GLVRLGEKERHLEHECPERSLSCRHCRAPCCGADVKAHHEVCPKFPLTCDGCGKKKIPREKFQDHVKTCG
KCRVPCRFHAIGCLETVEGEKQQEHEVQWLREHLAMLLSSVLEAKPLLGDQSHAGSELLQRCESLEKKTA
TFENIVCVLNREVERVAMTAEACSRQHRLDQDKIEALSSKVQQLERSIGLKDLAMADLEQKVLEMEASTY
DGVFIWKISDFARKRQEAVAGRIPAIFSPAFYTSRYGYKMCLRIYLNGDGTGRGTHLSLFFVVMKGPNDA
LLRWPFNQKVTLMLLDQNNREHVIDAFRPDVTSSSFQRPVNDMNIASGCPLFCPVSKMEAKNSYVRDDAI
FIKAIVDLTGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6089_b04.zip

Restriction Sites: SgfI-MluI

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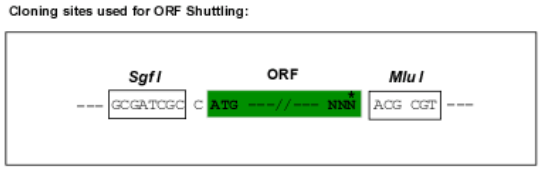
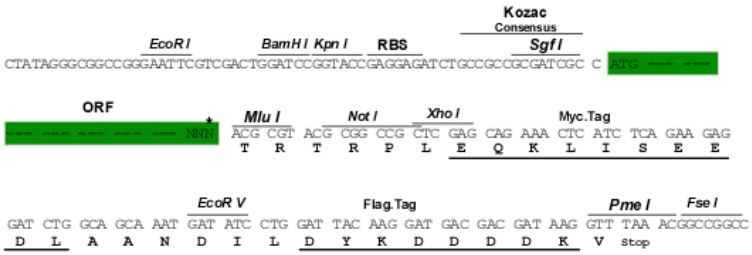
Cloning Scheme:





* The last codon before the Stop codon of the ORF

ACCN: NM_021138

ORF Size: 1503 bp

OTI Disclaimer: 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

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_021138.4

RefSeq Size: 2298 bp

RefSeq ORF: 1506 bp

Locus ID: 7186

UniProt ID: Q12933

Cytogenetics: 9q34.3

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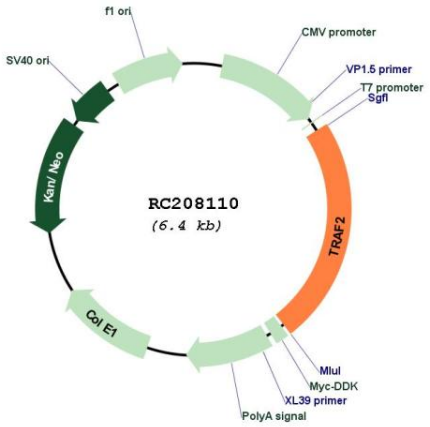
Domains:	zf-TRAF, RING, MATH
Protein Families:	Druggable Genome
Protein Pathways:	Adipocytokine signaling pathway, Apoptosis, MAPK signaling pathway, Pathways in cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer
MW:	55.9 kDa
Gene Summary:	The protein encoded by this gene is a member 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]

Product images:



Circular map for RC208110

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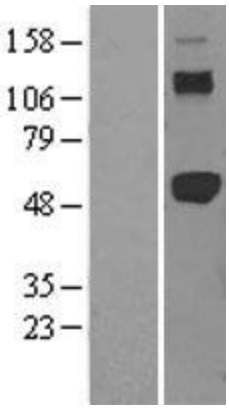
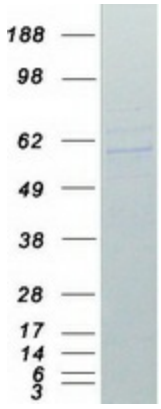


Western blot validation of overexpression lysate (Cat# [LY402843]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208110 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TRAF2 protein (Cat# [TP308110]). The protein was produced from HEK293T cells transfected with TRAF2 cDNA clone (Cat# RC208110) using MegaTran 2.0 (Cat# [TT210002]).

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