

Product datasheet for **MR208047**

Traf2 (NM_009422) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Traf2 (NM_009422) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Traf2
Synonyms:	A1325259
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208047 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGCAGCCAGTGTGACTTCCCTGGCTCCCTAGAAGTCTACAGCCTGGTCTTCCAAGACCTCC
 TGGGGACCAGGTTAGAAGCCAAGTACCTCTGTTACGCCTGCAAAAACATCCTGCGGAGGCCCTTCCAGGC
 CCAGTGTGGGCACCGCTACTGCTCCTTCTGCCTGACCAGCATCCTCAGCTCTGGGCCCCAGAAGTGTGCT
 GCCTGTGTCTATGAAGGCCTGTATGAAGAAGGCATTTCTATTTTAGAGAGTAGTTCGGCCTTCCAGATA
 ACGCTGCCCGCAGAGAGGTGGAGAGCCTGCCAGCTGTCTGTCCCAATGATGGATGCACCTGGAAGGGGAC
 CTTGAAAGAATACGAGAGCTGCCACGAAGGACTTTGCCATTCTGCTGACGGAGTGTCTGCATGTAAA
 GGCCTGGTCCGCCTCAGCGAGAAGGAGCACCACACTGAGCAGGAATGCCCAAAGGAGCCTGAGCTGCC
 AGCACTGCAGAGCACCTGTAGCCACGTGGACCTGGAGGTACACTATGAGGTCTGCCCAAAGTTCCCTT
 AACCTGTGATGGCTGTGGCAAGAAGAAGATCCCTCGGGAGACGTTTCAGGACCATGTTAGAGCATGCAGC
 AAATGCCGGGTTCTCTGCAGATTCACACCGTTGGCTGTTTCAGAGATGGTGGAGACTGAGAACCTGCAGG
 ATCATGAGCTGCAGCGGCTACGGGAACACCTAGCCCTACTGCTGAGCTCATTCTGGAGGCCAAGCCTC
 TCCAGGAACCTTGAACCAGGTGGGGCCAGAGCTACTCCAGCGGTGCCAGATTTTGGAGCAGAAGATAGCA
 ACCTTTGAGAACATTGTCTGCGTCTTGAACCGTGAAGTAGAGAGGGTAGCAGTACTGCAGAGGCTTGTA
 GCCGGCAGCACCGGCTAGACCAGGACAAGATTGAGGCCCTGAGTAACAAGGTGCAACAGCTGGAGAGGAG
 CATCGGCTCAAGGACCTGGCCATGGCTGACCTGGAGCAGAAGGTCTCCGAGTTGGAAGTATCCACCTAT
 GATGGGGTCTTTCATCTGGAAGATCTCTGACTTCACCAGAAAGCGTCAGGAAGCCGTAGCTGGCCGGAC
 CGGCTATCTTCTCCCGAGCCTTACACAAGCAGATATGGCTACAAGATGTGTCTACGAGTCTACTTGAA
 TGGCGACGGCACCGGGCGGGGAACCCATCTGTCTCTTCTTCTCGTGGTATGAAAGGCCCAATGATGCT
 CTGTTGACAGTGGCCTTTTAAATCAGAAGGTAACTTATGATGTTGCTGGACCATAACAACCGGAGCATGTGA
 TCGACGCATTAGGCCGATGTAACCTCGTCTCCTTCCAGAGGCTGTGAGTACATGAACATCGCCAG
 TGGCTGCCCCCTCTTCTGCCCTGTGTCCAAGATGGAGGCCAAGAATTCCTATGTGCGGGATGATGCGATC
 TTCATCAAAGCTATTGTGGACCTAACAGGACTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208047 protein sequence
 Red=Cloning site Green=Tags(s)

MAAASVTSPPSLELLQPGFSKTLGTRLEAKYLCACKNILLRPFQAQCGHRYCSFCLTSILSSGPQNCA
 ACVYEGLYEEGISELESSAFPDNAARREVESLPAVCPNDGCTWKGLKEYESCHEGLCPFLLTECPACK
 GLVRLSEKEHTEQECPKRSLSCQHCRAPCSHVDLEVHYEVCPKFPLTCDGCGKKKIPRETFQDHRACS
 KCRVLCRFHTVGCSEMVETENLQDHELQRLREHLALLLSSFLEAQASPGTLNQVGPPELLQRCQILEQKIA
 TFENIVCVLNREVERVAVTAEACSRQHRLDQDKIEALSNKVQQLERSIGLKDAMADLEQKVSELEVSTY
 DGVFIWKISDFTRKRQEAVAGRTPAIFSPAFYTSRYGYKMLRVYLNQDGTGRGTHLSLFFVVMKGPND
 LLQWPFNQKVTLLMLLDHNNREHVIDAFRPDVTSSSFQRPVSDMNIASGCPLFCPVSKMEAKNSYVRDDAI
 FIKAIIVDLTGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_009422

ORF Size: 1506 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](#)

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).

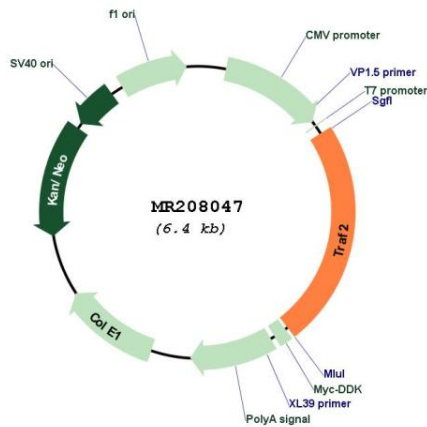
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_009422.1](#), [NM_009422.2](#), [NM_009422.3](#), [NP_033448.2](#)

RefSeq Size: 3044 bp
 RefSeq ORF: 1506 bp
 Locus ID: 22030
 UniProt ID: [P39429](#)
 Cytogenetics: 2 A3
 MW: 56 kDa

Gene Summary: Regulates activation of NF-kappa-B and JNK and plays a central role in the regulation of cell survival and apoptosis. Required for normal antibody isotype switching from IgM to IgG. Has E3 ubiquitin-protein ligase activity and promotes 'Lys-63'-linked ubiquitination of target proteins, such as BIRC3, RIPK1 and TICAM1. Is an essential constituent of several E3 ubiquitin-protein ligase complexes, where it promotes the ubiquitination of target proteins by bringing them into contact with other E3 ubiquitin ligases. Regulates BIRC2 and BIRC3 protein levels by inhibiting their autoubiquitination and subsequent degradation; this does not depend on the TRAF2 RING-type zinc finger domain. Isoform 2 does not seem to mediate activation of NF-kappa-B but inhibits isoform 1 activity. Plays a role in mediating activation of NF-kappa-B by EIF2AK2/PKR. In complex with BIRC2 or BIRC3, promotes ubiquitination of IKBKE. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208047