

## Product datasheet for **MR230304**

### Traf2 (NM\_001290413) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Traf2 (NM_001290413) 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:**

>MR230304 representing NM\_001290413  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTGCAGCCAGTGTGACTTCCCTGGCTCCCTAGAAGTCTACAGCCTGGTCTTCCAAGACCTCC  
 TGGGACCAGGTTAGAAGCCAAGTACCTCTGTTACAGCCTGCAAAAACATCCTGCGGAGGCCCTTCCAGGC  
 CCAGTGTGGGCACCGCTACTGCTCCTTCTGCCTGACCAGCATCCTCAGGTGTGCATCCATCTCTCCAGC  
 TCTGGGCCCCAGAAGTGTGCTGCCTGTGTCTATGAAGGCCTGTATGAAGAAGGCATTTCTATTTAGAGA  
 GTAGTTCGGCCTTCCAGATAACGCTGCCCGCAGAGAGGTGGAGAGCCTGCCAGCTGTCTGTCCCAATGA  
 TGGATGCACTTGAAGGGGACCTTGAAGAATACGAGAGCTGCCACGAAGGACTTGGCCATTCTGCTGTG  
 ACGGAGTGTCTGCATGTAAGGCCTGGTCCGCTCAGCGAGAAGGAGCACCACACTGAGCAGGAATGCC  
 CAAAAGGAGCCTGAGCTGCCAGCACTGCAGAGCACCTGTAGCCACGTGGACCTGGAGGTACACTATGA  
 GGTCTGCCCAAGTTCCCTAACCTGTGATGGCTGTGGCAAGAAGAAGATCCCTCGGGAGACGTTTCAG  
 GACCATGTTAGAGCATGCAGAAATGCCGGTCTCTGCAGATCCACACCGTTGGCTGTTCAGAGATGG  
 TGGAGACTGAGAACCTGCAGGATCATGAGCTGCAGCGGCTACGGGAACACCTAGCCCTACTGCTGAGCTC  
 ATCTTGGAGGCCAAGCCTCTCCAGGAACCTTGAACCAGGTGGGGCCAGAGCTACTCCAGCGGTGCCAG  
 ATTTTGGAGCAGAAGATAGCAACCTTGGAGAACATTGTCTGCGTCTTGAACCGTGAAGTAGAGAGGGTAG  
 CAGTGACTGCAGAGGCTTGTAGCCGGCAGCACCGGCTAGACCAGGACAAGATTGAGGCCCTGAGTAACAA  
 GGTGCAACAGCTGGAGAGGAGCATCGGCCTCAAGGACCTGGCCATGGCTGACCTGGAGCAGAAGGTCTCC  
 GAGTTGGAAGTATCCACCTATGATGGGGTCTTCTGGAAGATCTCTGACTTCACCAGAAAGCCTCAGG  
 AAGCCGTAGCTGGCCGGACACCAGCTATCTTCTCCCGCCTTCTACACAAGCAGATATGGCTACAAGAT  
 GTGTCTACGAGTCTACTTGAATGGCGACGCACTGGGCGGGGAACCTCATCTGTCTCTTCTTCTCGTGGT  
 ATGAAAGGCCCAATGATGCTCTGTTGCAAGTGGCCTTTAATCAGAAGGTAACATTGATGTTGCTGGACC  
 ATAACAACCGGGAGCATGTGATCGAGCATTAGGCGCGATGTAACCTCGTCTCTTCCAGAGGCTGT  
 CAGTGACATGAACATCGCCAGTGGCTGCCCTCTTCTGCCCTGTGTCCAAGATGGAGGCCAAGAATTCC  
 TATGTGCGGGATGATGCGATCTTATCAAAGCTATTGTGGACCTAACAGGACTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230304 representing NM\_001290413  
 Red=Cloning site Green=Tags(s)

MAAASVTSPPSLELLQPGFSKTLGTRLEAKYLCACKNILLRPFQAQCGHRYCSFCLTSILRCASILSS  
 SGPQNCAACVYEGLYEEGISELESSAFPDAARREVESLPAVCPNDGCTWKGLKEYESCHEGLCPFLL  
 TECPACKGLVRLSEKEHHTEQECPKRSLSQHCRAPCSHVDLEVHYEVC PKFPLTCDGCGKKIPRETFQ  
 DHVRACSKCRVLCRFHTVGCSEMVETENLQDHELQRLREHLALLSSFLEAQASPGTLNQVPELLQRCQ  
 ILEQKIATFENIVCVLNREVERVAVTAEACSRQHRLDQDKIEALSNKVQQLERSIGLKDLMADLEQKVS  
 ELEVSTYDGVFIWKISDFTRKRQEAVAGRTPAIFSPA FYTSRYGYKMCLRVYLNQDGTGRGTHLSLFFVV  
 MKGPNDA LLQWPFNQVTLMLLDHNNREHVIDAFRPDVTSSSFQRPVSDMNIASGCPLFCPVSKMEAKNS  
 YVRDDAIFIKAIVDLTGL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


ACCN: NM\_001290413

ORF Size: 1524 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\\_001290413.1](#), [NP\\_001277342.1](#)

RefSeq Size: 3065 bp

RefSeq ORF: 1527 bp

Locus ID: 22030

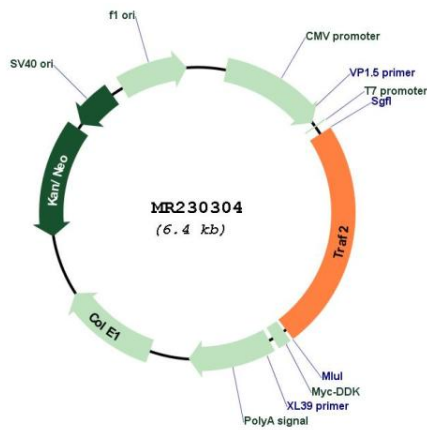
UniProt ID: [P39429](#)

Cytogenetics: 2 A3

**MW:** 57.2 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 MR230304