

## Product datasheet for **MC200118**

### Traf2 (NM\_009422) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Traf2 (NM_009422) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Traf2
Synonyms:	A1325259
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC003801 sequence for NM\_009422  
 GTTGGGGCTTTGTGGTGTGTGGGGTTGTAACCTCACATGGCTGCAGCCAGTGTGACTTCCCCTGGCTCCC  
 TAGAACTGCTACAGCCTGGCTTCTCCAAGACCCTCCTGGGGACCAGGTTAGAAGCCAAGTACCTCTGTTC  
 AGCCTGCAAAAACATCCTGCGGAGGCCTTTCCAGGCCAGTGTGGGCACCGCTACTGCTCCTTCTGCCTG  
 ACCAGCATCCTCAGCTCTGGGCCCCAGAAGTGTGTCTGTATGAAGGCCTGTATGAAGAAGGCA  
 TTTCTATTTTAGAGAGTAGTTCGGCCTTTCCAGATAACGCTGCCCGCAGAGAGGTGGAGAGCCTGCCAGC  
 TGCTGTCCCAATGATGGATGCACTTGAAGGGGACCTTGAAGAATAACGAGAGCTGCCACGAAGGACTT  
 TGCCCATTCCTGCTGACGGAGTGTCTGCATGTAAGGCCTGGTCCGCCTCAGCGAGAAGGAGACCACA  
 CTGAGCAGGAATGCCCCAAAAGGAGCCTGAGCTGCCAGCACTGCAGAGCACCTGTAGCCACGTGGACCT  
 GGAGGTACACTATGAGGTCTGCCCAAGTTTCCCTAACCTGTGATGGCTGTGGCAAGAAGAAGATCCCT  
 CGGGAGACGTTTTCAGGACCATGTTAGAGCATGCAGCAAATGCCGGTTTCTGCAGATTCACACCGTTG  
 GCTGTTACAGAGATGGTGGAGACTGAGAACCTGCAGGATCATGAGCTGCAGCGCTACGGGAACACCTAGC  
 CCTACTGCTGAGCTCATTCTGGAGGCCAAGCCTCTCCAGAACCTTGAACCAGTGGGGCCAGAGCTA  
 CTCACGGGTGCCAGATTTTGGAGCAGAAGATAGCAACCTTTGAGAACATTGTCTGCGTCTTGAACCGTG  
 AAGTAGAGAGGGTAGCAGTGCAGAGGCTTGTAGCCGGCAGCACCGGCTAGACCAGGACAAGATTGA  
 GGCCCTGAGTAACAAGGTGCAACAGCTGGAGAGGAGCATCGGCCTCAAGGACCTGGCCATGGCTGACCTG  
 GAGCAGAAGGTCTCCGAGTTGGAAGTATCCACCTATGATGGGGTCTTCTGGAAGATCTCTGACTTCA  
 CCAGAAAGCGTCAGGAAGCCGTAGCTGGCCGGACACCGGCTATCTTCTCCCAGCCTTCTACACAAGCAG  
 ATATGGCTACAAGATGTGTCTACGAGTCTACTTGAATGGCGACGGCACCGGGCGGGGAACCCATCTGTCT  
 CTCTTCTCGTGGTGTGAAAGGCCCAATGATGCTCTGTTGCAGTGGCCTTTTAAATCAGAAGGTAACAT  
 TGATGTTGCTGGACCATAACAACCGGGAGCATGTGATCGACGATTACAGGCCGATGTAACCTCGTCCTC  
 CTTCCAGAGGCCTGTCACTGACATGAACATCGCCAGTGGCTGCCCCCTCTTCTGCCCTGTGTCCAAGATG  
 GAGGCCAAGAATTCCTATGTGCGGGATGATGCGATCTTCAATCAAAGCTATTGTGGAGCTAACAGGACTCT  
 AGCCACCCCTGCTAAGAATAGCAGCTCAGTGAGGAGCTGTACATTAGGCCAGCCAGGCCCTGCCACACA  
 CGGGTGGGCAGGCTTGGTGTAAATGCTGGGGAGGGCCTCAGCCTAGAGCCAATCACCATCACACAGAAAG  
 GCAGGAAGAAGCCTCCAGTTGGCCTTCACTGGCAAGTTGGACGGTCCACTGAGCTCAAGGGCCTGGTGG  
 AGCCCGCTGGGGAGCTTCTCAGCTTTCCAATAGGAAAGCTCCTGCTGTCTCCTGTCTGGGGAAGGGAG  
 AGACCTGTAGGTGGTGTCTCAGAAAGGGCCTCTCCAGAGAGAGCCTCAAGAGCTGCAGCAGGAGCAAAGT  
 GACTGGCCTTCCCACCCATCCTTTGAAAAGAGGTAGCGGCTACACAGGAGAAGGCATGCGCCTGCAG  
 GGTATAGCCCAAGAGAGAAGCTCTGTGAGACATAGGCCCTCACTGGAGAAGGGCCTGCCTGGGCTGCACA  
 GCCTTGCCAGGTGCCTGTATGGGGGAGAAGTATTAATGTTGAGATATCTGTGCTGAAAAAAAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_009422

**Insert 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](mailto: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](#)

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC003801</a></u> , <u><a href="#">AAH03801</a></u>
<b>RefSeq Size:</b>	2128 bp
<b>RefSeq ORF:</b>	1506 bp
<b>Locus ID:</b>	22030
<b>UniProt ID:</b>	<u><a href="#">P39429</a></u>
<b>Cytogenetics:</b>	2 A3
<b>Gene Summary:</b>	<p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1, resulting in an isoform (b) that is shorter than isoform a.</p>