

## Product datasheet for **RC206042**

### **TRAF6 (NM\_145803) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TRAF6 (NM_145803) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRAF6
Synonyms:	MGC:3310; RNF85
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC206042 representing NM\_145803  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTCTGCTAAACTGTGAAAACAGCTGTGGATTACGCCAGTCTGAAAGTGACTGCTGTGTGGCCATGG  
 CCAGCTCCTGTAGCGCTGTAAACAAAAGATGATAGTGTGGGTGAACTGCCAGCACGGGAACTCTCCAG  
 CTCATTTATGGAGGAGATCCAGGATATGATGTAGAGTTTGACCCACCCCTGAAAAGCAAGTATGAATGC  
 CCCATCTGCTTGTATGGCATTACGAGAAGCAGTGCAAAACGCCATGCGGCCATAGGTTCTGCAAAGCCTGCA  
 TCATAAAATCAATAAGGGATGCAGGTACAAAATGCCAGTTGACAATGAAATACTGCTGGAAAATCAACT  
 ATTTCCAGACAATTTGCAAAACGTGAGATTCTTTCTCTGATGGTGAATGTCCAATGAAGTTGTTTTG  
 CACAAGATGGAAGTGAACATCTTGAGGATCATCAAGCACATTGTGAGTTTGTCTTATGGATTGCCCC  
 AATGCCAGCGTCCCTTCCAAAAATTCATATTAATATTCACATTCTGAAGGATTGTCCAAGGAGACAGGT  
 TTCTTGTGACAACTGTGCTGCATCAATGGCATTGGAAGATAAAGAGATCCATGACCAGAAGTGCCTTTG  
 GCAAAATGCATCTGTGAATACTGCAATACTATACTCATCAGAGAACAGATGCCTAATCATTATGATCTAG  
 ACTGCCCTACAGCCCAATTCCATGCACATTCACTACTTTTGGTTGCCATGAAAAGATGCAGAGGAATCA  
 CTTGGCACGCCACCTACAAGAGAACACCCAGTACACATGAGAATGTTGGCCAGGCTGTTTCATAGTTTG  
 AGCGTTATACCCGACTCTGGGTATATCTCAGAGGTCCGGAATTTCCAGGAACTATTCACAGTTAGAGG  
 GTCGCCTTGAAGACAAGACCATCAAAATCCGGGAGCTGACTGCTAAAATGGAACTCAGAGTATGTATGT  
 AAGTGAGCTCAAACGAACCATTCGAACCCCTTGAGGACAAAGTTGCTGAAATCGAAGCACAGCAGTGAAT  
 GGAATTTATATTTGGAAGATTGGCACTTTGGAATGCATTTGAAATGTCAAGAAGAGGAGAAAACCTGTTG  
 TGATTCATAGCCCTGGATTCTACACTGGCAAACCCGGGTACAAACTGTGCATGCGCTTGACCTTCAGTT  
 ACCGACTGCTCAGCGCTGTGCAAACTATATCCCTTTTTGTCCACACAATGCAAGGAGAATATGACAGC  
 CACCTCCCTTGGCCCTTCCAGGGTACAATACGCCCTTACAATTCTTGATCAGTCTGAAGCACCTGTAAAGC  
 AAAACCACGAAGAGATAATGGATGCCAAACCAGAGCTGCTTGCTTTCCAGCGACCCACAATCCCACGGAA  
 CCCAAAAGGTTTTGGCTATGTAACCTTTATGCATCTGGAAGCCCTAAGACAAAGAAGCTTTTATTAAAGGAT  
 GACACATTATTAGTGGCTGTGAGGTCTCCACCCGCTTTGACATGGGTAGCCTTCGGAGGGAGGTTTTTC  
 AGCCACGAAGTACTGATGCAGGGGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC206042 representing NM\_145803  
 Red=Cloning site Green=Tags(s)

MSLLNCENSCGFSQSESDCCVAMASSCSAVTKDDSVGGTASTGNLSSSFMEEIQGYDVEFDPPLESKYEC  
 PICLMALREAVQTPCGHRFCACIIKSIIRDAGHKCPVDNEILLENQLFPDNFAKREILSLMVKCPNEGCL  
 HKMELRHLEDHQAHCEFALMDCPQCQRPFQKFHINIHLKDCPRRQVSCDNCAASMAFEDKEIHDQNCPL  
 ANVICEYCNTILIREQMPNHYDLDCPTAPICTFSTFGCHEKMQRNHLARHLQENTQSHMRMLAQAVHSL  
 SVIPDSGYISEVRNFQETIHQLEGRLVQRDHIQIRELTAKMETQSMYVSELKRTIRTLEDKVAEIEAQQC  
 GIYIWKIGNFGMHLKCQEEKPVVIHSPGFYTGKPGYKLCMRLHLQLPTAQRCANYISLHVHTMQGEYDS  
 HLPWPFQGTIRLTILDQSEAPVRQNHEEIMDAKPELLAFQRPTIPRNPKGFYVTFMHLEALRQRTFIKD  
 DTLVLRCEVSTRFDMGSLRREGFQPRSTDAGV

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg2573\\_a05.zip](https://cdn.origene.com/chromatograms/mg2573_a05.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_145803

**ORF Size:** 1566 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](#)

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

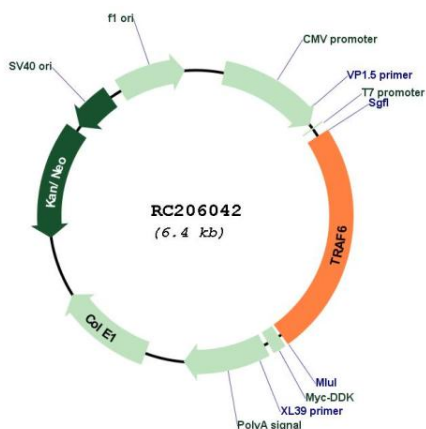
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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.

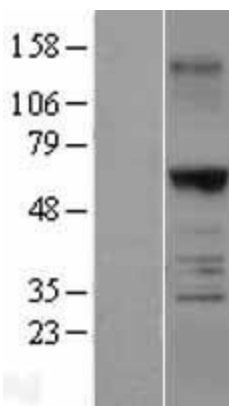
**RefSeq:** [NM\\_145803.3](#)

RefSeq Size:	2608 bp
RefSeq ORF:	1569 bp
Locus ID:	7189
UniProt ID:	<a href="#">Q9Y4K3</a>
Cytogenetics:	11p12
Domains:	zf-TRAF, RING, MATH
Protein Families:	Druggable Genome
Protein Pathways:	Endocytosis, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Pathways in cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, Toll-like receptor signaling pathway, Ubiquitin mediated proteolysis
MW:	59.4 kDa
Gene Summary:	<p>The protein encoded by this gene is a member of the TNF receptor associated factor (TRAF) protein family. TRAF proteins are associated with, and mediate signal transduction from, members of the TNF receptor superfamily. This protein mediates signaling from members of the TNF receptor superfamily as well as the Toll/IL-1 family. Signals from receptors such as CD40, TNFSF11/RANCE and IL-1 have been shown to be mediated by this protein. This protein also interacts with various protein kinases including IRAK1/IRAK, SRC and PKCzeta, which provides a link between distinct signaling pathways. This protein functions as a signal transducer in the NF-kappaB pathway that activates I kappa B kinase (IKK) in response to proinflammatory cytokines. The interaction of this protein with UBE2N/UBC13, and UBE2V1/UEV1A, which are ubiquitin conjugating enzymes catalyzing the formation of polyubiquitin chains, has been found to be required for IKK activation by this protein. This protein also interacts with the transforming growth factor (TGF) beta receptor complex and is required for Smad-independent activation of the JNK and p38 kinases. This protein has an amino terminal RING domain which is followed by four zinc-finger motifs, a central coiled-coil region and a highly conserved carboxyl terminal domain, known as the TRAF-C domain. Two alternatively spliced transcript variants, encoding an identical protein, have been reported. [provided by RefSeq, Feb 2012]</p>

Product images:



Circular map for RC206042



Western blot validation of overexpression lysate (Cat# [LY403440]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206042 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).