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Product datasheet for RC219528

TRAF6 (NM_004620) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRAF6 (NM_004620) 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:

>RC219528 representing NM_004620
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTCTGCTAAACTGTGAAAACAGCTGTGGATCCAGCCAGTCTGAAAGTGACTGCTGTGTGGCCATGG
CCAGCTCCTGTAGCGCTGTAACAAAAGATGATAGTGTGGGTGGAACTGCCAGCACGGGGAACCTCTCCAG
CTCATTTATGGAGGAGATCCAGGGATATGATGTAGAGTTTGACCCACCCCTGGAAAGCAAGTATGAATGC
CCCATCTGCTTGATGGCATTACGAGAAGCAGTGCAAACGCCATGCGGCCATAGGTTCTGCAAAGCCTGCA
TCATAAAATCAATAAGGGATGCAGGTCACAAATGTCCAGTTGACAATGAAATACTGCTGGAAAATCAACT
ATTTCCAGACAATTTTGCAAAACGTGAGATTCTTTCTCTGATGGTGAAATGTCCAAATGAAGGTTGTTTG
CACAAGATGGAACTGAGACATCTTGAGGATCATCAAGCACATTGTGAGTTTGCTCTTATGGATTGTCCCC
AATGCCAGCGTCCCTTCCAAAAATTCCATATTAATATTCACATTCTGAAGGATTGTCCAAGGAGACAGGT
TTCTTGTGACAACTGTGCTGCATCAATGGCATTTGAAGATAAAGAGATCCATGACCAGAACTGTCCTTTG
GCAAATGTCATCTGTGAATACTGCAATACTATACTCATCAGAGAACAGATGCCTAATCATTATGATCTAG
ACTGCCCTACAGCCCCAATTCCATGCACATTCAGTACTTTTGGTTGCCATGAAAAGATGCAGAGGAATCA
CTTGGCACGCCACCTACAAGAGAACACCCAGTCACACATGAGAATGTTGGCCCAGGCTGTTCATAGTTTG
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GGAATTTATATTTGGAAGATTGGCAACTTTGGAATGCATTTGAAATGTCAAGAAGAGGAGAAACCTGTTG
TGATTCATAGCCCTGGATTCTACACTGGCAAACCCGGGTACAAACTGTGCATGCGCTTGCACCTTCAGTT
ACCGACTGCTCAGCGCTGTGCAAACTATATATCCCTTTTTGTCCACACAATGCAAGGAGAATATGACAGC
CACCTCCCTTGGCCCTTCCAGGGTACAATACGCCTTACAATTCTTGATCAGTCTGAAGCACCTGTAAGGC
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CCCAAAAGGTTTTGGCTATGTAACTTTTATGCATCTGGAAGCCCTAAGACAAAGAACTTTCATTAAGGAT
GACACATTATTAGTGCGCTGTGAGGTCTCCACCCGCTTTGACATGGGTAGCCTTCGGAGGGAGGGTTTTC
AGCCACGAAGTACTGATGCAGGGGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219528 representing NM_004620
Red=Cloning site Green=Tags(s)

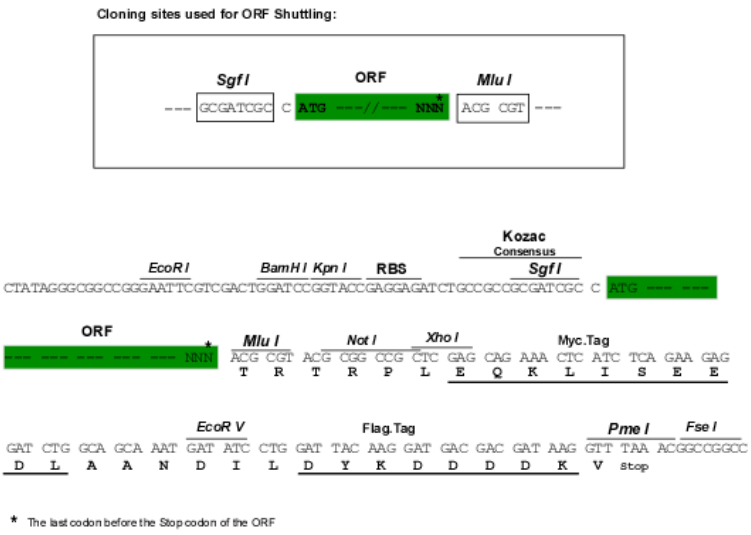
MSLLNCENSCGSSQSESDCCVAMASSCSAVTKDDSVGGTASTGNLSSSFMEEIQGYDVEFDPPLESKYEC
PICLMALREAVQTPCGHRFCKACIIKSIRDAGHKCPVDNEILLENQLFPDNFAKREILSLMVKCPNEGCL
HKMELRHLEDHQAHCEFALMDCPQCQRPFQKFHINIHILKDCPRRQVSCDNCAASMAFEDKEIHDQNCPL
ANVICEYCNTILIREQMPNHYDLDCPTAPIPCTFSTFGCHEKMQRNHLARHLQENTQSHMRMLAQAVHSL
SVIPDSGYISEVRNFQETIHQLEGRLVRQDHQIRELTAKMETQSMYVSELKRTIRTLEDKVAEIEAQQCN
GIYIWKIGNFGMHLKCQEEEKPVVIHSPGFYTGKPGYKLCMRLHLQLPTAQRCANYISLFVHTMQGEYDS
HLPWPFQGTIRLTILDQSEAPVRQNHEEIMDAKPELLAFQRPTIPRNPKGFGYVTFMHLEALRQRTFIKD
DTLLVRCEVSTRFDMGSLRREGFQPRSTDAGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6049_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004620

ORF Size: 1566 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_004620.4

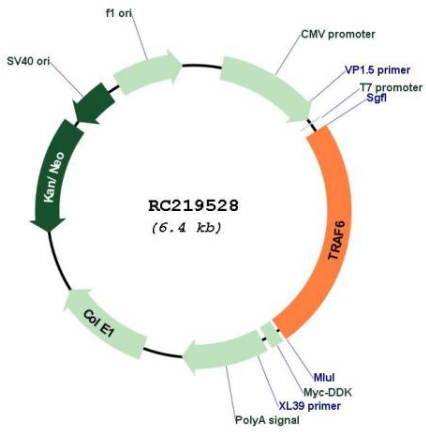
RefSeq Size: 2515 bp

RefSeq ORF: 1569 bp

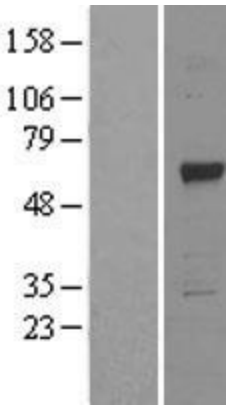
Locus ID: 7189

UniProt ID:	Q9Y4K3
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:	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 IkappaB 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]

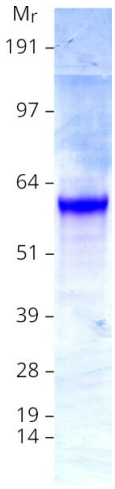
Product images:



Circular map for RC219528



Western blot validation of overexpression lysate (Cat# [LY401463]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219528 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TRAF6 protein (Cat# [TP319528]). The protein was produced from HEK293T cells transfected with TRAF6 cDNA clone (Cat# RC219528) using MegaTran 2.0 (Cat# [TT210002]).