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Product datasheet for RC212854

TRAF3 (NM_145726) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRAF3 (NM_145726) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRAF3
Synonyms:	CAP-1; CAP1; CD40bp; CRAF1; IIAE5; LAP1; RNF118
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC212854 representing NM_145726
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTCGAGTAAAAAGATGGACTCTCCTGGCGCGCTGCAGACTAACCCGCCGCTAAAGCTGCACACTG
ACCGCAGTGCTGGGACGCCAGTTTTTGTCCCTGAACAAGGAGGTTACAAGGAAAAGTTTGTGAAGACCGT
GGAGGACAAGTACAAGTGTGAGAAGTGCCACCTGGTGCTGTGCAGCCCGAAGCAGACCGAGTGTGGGCAC
CGCTTCTGCGAGAGCTGCATGGCGGCCCTGCTGAGCTCTTCAAGTCCAAAATGTACAGCGTGTCAAGAGA
GCATCGTTAAAGATAAGGTGTTTAAGGATAATTGCTGCAAGAGAGAAATTCTGGCTCTTCAGATCTATTG
TCGGAATGAAAGCAGAGGTTGTGCAGAGCAGTTAATGCTGGGACATCTGCTGGTGCATTTAAAAAATGAT
TGCCATTTTGAAGAACTTCCATGTGTGCGTCCTGACTGCAAAGAAAAGGTCTTGAGGAAAGACCTGCGAG
ACCACGTGGAGAAGGCGTGTAAATACCGGGAAGCCACATGCAGCCACTGCAAGAGTCAGGTTCCGATGAT
CGCGCTGCAGAAACACGAAGACACCGACTGTCCCTGCGTGGTGGTGTCCTGCCCTCACAAGTGCAGCGTC
CAGACTCTCCTGAGGAGCGAGGGGACAAACCAGCAGATCAAGGCCCACGAGGCCAGCTCCGCCGTGCAGC
ACGTCAACCTGCTGAAGGAGTGGAGCAACTCGCTCGAAAAGAAGGTTTCCTTGTTGCAGAATGAAAGTGT
AGAAAAAAACAAGAGCATACAAAGTTTGCACAATCAGATATGTAGCTTTGAAATTGAAATTGAGAGACAA
AAGGAAATGCTTCGAAATAATGAATCCAAAATCCTTCATTTACAGCGAGTGATAGACAGCCAAGCAGAGA
AACTGAAGGAGCTTGACAAGGAGATCCGGCCCTTCCGGCAGAACTGGGAGGAAGCAGACAGCATGAAGAG
CAGCGTGGAGTCCCTCCAGAACCGCGTGACCGAGCTGGAGAGCGTGGACAAGAGCGCGGGGCAAGTGGCT
CGGAACACAGGCCTGCTGGAGTCCCAGCTGAGCCGGCATGACCAGATGCTGAGTGTGCACGACATCCGCC
TAGCCGACATGGACCTGCGCTTCCAGGTCCTGGAGACCGCCAGCTACAATGGAGTGCTCATCTGGAAGAT
TCGCGACTACAAGCGGCGGAAGCAGGAGGCCGTCATGGGGAAGACCCTGTCCCTTTACAGCCAGCCTTTC
TACACTGGTTACTTTGGCTATAAGATGTGTGCCAGGGTCTACCTGAACGGGGACGGGATGGGGAAGGGGA
CGCACTTGTCGCTGTTTTTTGTCATCATGCGTGGAGAATATGATGCCCTGCTTCCTTGGCCGTTTAAGCA
GAAAGTGACACTCATGCTGATGGATCAGGGGTCCTCTCGACGTCATTTGGGAGATGCATTCAAGCCCGAC
CCCAACAGCAGCAGCTTCAAGAAGCCCACTGGAGAGATGAATATCGCCTCTGGCTGCCCAGTCTTTGTGG
CCCAAACTGTTCTAGAAAATGGGACATATATTAAAGATGATACAATTTTTATTAAAGTCATAGTGGATAC
TTCGGATCTGCCCGATCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC212854 representing NM_145726
Red=Cloning site Green=Tags(s)

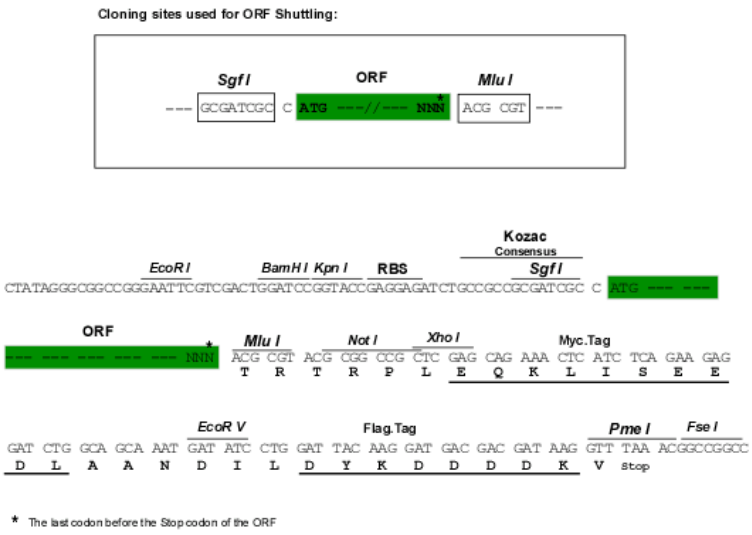
MESSKKMDSPGALQTNPPLKLHTDRSAGTPVFVPEQGGYKEKFVKTVEDKYKCEKCHLVLCSPKQTECGH
RFCESCMAALLSSSSPKCTACQESIVKDKVFKDNCCKREILALQIYCRNESRGCAEQLMLGHLLVHLKND
CHFEELPCVRPDCKEKVLRKDLRDHVEKACKYREATCSHCKSQVPMIALQKHEDTDCPCVVVSCPHKCSV
QTLLRSEGTNQQIKAHEASSAVQHVNLLKEWSNSLEKKVSLLQNESVEKNKSIQSLHNQICSFEIEIERQ
KEMLRNNESKILHLQRVIDSQAEKLKELDKEIRPFRQNWEEADSMKSSVESLQNRVTELESVDKSAGQVA
RNTGLLESQLSRHDQMLSVHDIRLADMDLRFQVLETASYNGVLIWKIRDYKRRKQEAVMGKTLSLYSQPF
YTGYFGYKMCARVYLNGDGMGKGTHLSLFFVIMRGEYDALLPWPFKQKVTLMLMDQGSSRRHLGDAFKPD
PNSSSFKKPTGEMNIASGCPVFVAQTVLENGTYIKDDTIFIKVIVDTSDLPDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8066_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145726

ORF Size: 1629 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_145726.2, NP_663778.1

RefSeq Size: 2492 bp

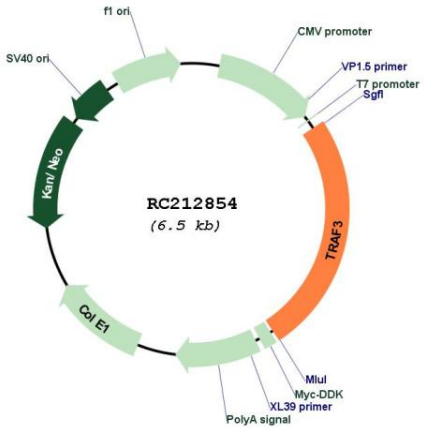
RefSeq ORF: 1632 bp

Locus ID: 7187

UniProt ID: Q13114

Cytogenetics:	14q32.32
Protein Families:	Druggable Genome
Protein Pathways:	Pathways in cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, Toll-like receptor signaling pathway
MW:	61.6 kDa
Gene Summary:	The protein encoded by this gene is a member of the TNF receptor associated factor (TRAF) protein family. TRAF proteins associate with, and mediate the signal transduction from, members of the TNF receptor (TNFR) superfamily. This protein participates in the signal transduction of CD40, a TNFR family member important for the activation of the immune response. This protein is found to be a critical component of the lymphotoxin-beta receptor (LTbetaR) signaling complex, which induces NF-kappaB activation and cell death initiated by LTbeta ligation. Epstein-Barr virus encoded latent infection membrane protein-1 (LMP1) can interact with this and several other members of the TRAF family, which may be essential for the oncogenic effects of LMP1. The protein also plays a role in the regulation of antiviral response. Mutations in this are associated with Encephalopathy, acute, infection-induced, herpes-specific 5. [provided by RefSeq, Jul 2020]

Product images:



Circular map for RC212854