

Product datasheet for **RG212854**

TRAF3 (NM_145726) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRAF3 (NM_145726) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRAF3
Synonyms:	CAP-1; CAP1; CD40bp; CRAF1; IIAE5; LAP1; RNF118
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG212854 representing NM_145726
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGTCGAGTAAAAGATGGACTCTCCTGGCGCGTGCAGACTAACCCGCCGCTAAAGCTGCACACTG
 ACCGCAGTGTGGACGCCAGTTTTTGTCCCTGAACAAGGAGTTACAAGGAAAAGTTTGTGAAGACCGT
 GGAGGACAAGTACAAGTGTGAGAAGTGCCACCTGGTGTGTGCAGCCGAAGCAGACCGAGTGTGGGCAC
 CGCTTCTGCGAGAGCTGCATGGCGGCCCTGCTGAGCTCTTCAAGTCCAAAATGTACAGCGTGTCAAGAGA
 GCATCGTTAAAGATAAGGTGTTAAGGATAATTGCTGCAAGAGAGAAAATCTGGCTCTTCAGATCTATTG
 TCGGAATGAAAGCAGAGGTTGTGACAGAGATTAATGCTGGGACATCTGCTGGTGCATTTAAAAATGAT
 TGCCATTTTGAAGAACTCCATGTGTGCGTCTGACTGCAAAGAAAAGGCTTGAGGAAAGACCTGCGAG
 ACCACGTGGAGAAGGCGTGTAAATACCGGAAGCCACATGCAGCCACTGCAAGAGTCAGGTTCCGATGAT
 CGCGCTGCAGAAACGAAAGACCCGACTGTCCCTGCGTGGTGGTGTCTGCCCTACAAGTGCAGCGTC
 CAGACTCTCTGAGGAGCGAGGGGACAAACCAGCAGATCAAGGCCACGAGGCCAGCTCCGCCGTGCAGC
 ACGTCAACCTGTGAAGGAGTGGAGCAACTCGCTCGAAAAGAAGGTTTCTTGTTCAGAAATGAAAGTGT
 AGAAAAAACAAGAGCATACAAAGTTTGCACAATCAGATATGTAGCTTTGAAATTGAAATTGAGAGACAA
 AAGGAAATGCTTCGAAATATGAATCCAAAATCCTTACATTTACAGCGAGTGATAGACAGCCAAGCAGAGA
 AACTGAAGGAGCTTGACAAGGAGATCCGGCCCTCCGGCAGAAGTGGGAGGAAGCAGACAGCATGAAGAG
 CAGCGTGGAGTCCCTCCAGAACCAGCGTACCGAGCTGGAGAGCGTGGACAAGAGCGCGGGCAAGTGGCT
 CGGAACACAGGCCTGCTGGAGTCCAGCTGAGCCGGCATGACCAGATGCTGAGTGTGCACGACATCCGCC
 TAGCCGACATGGACCTGCGCTTCCAGGCTGGAGACCGCCAGCTACAATGGAGTGTCTCATCTGGAAGAT
 TCGCGACTACAAGCGCGCGAAGCAGGAGCGCTCATGGGGAAGACCCTGTCCCTTACAGCCAGCCTTTC
 TACACTGGTTACTTTGGCTATAAGATGTGTGCCAGGGTCTACCTGAACGGGGACGGGATGGGGAAGGGGA
 CGCACTTGTGCTGTTTTTTGTATCATGCGTGGAGAATATGATGCCCTGCTTCTTGGCCGTTTAAAGCA
 GAAAGTGACACTCATGCTGATGGATCAGGGTCTCTCGACGTCAATTTGGGAGATGCATTCAAGCCCGAC
 CCCAACAGCAGCAGCTTCAAGAAGCCACTGGAGAGATGAATATCGCCTCTGGCTGCCAGTCTTTGTGG
 CCCAACTGTTCTAGAAAATGGGACATATATTAAGATGATACAATTTTTATTAAGTCATAGTGGATAC
 TTCGGATCTGCCGATCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG212854 representing NM_145726
 Red=Cloning site Green=Tags(s)

MESSKKMDSFGALQTNPPLKLHTDRSAGTPVFVPEQGGYKEKFKVKTVEDKYKCEKCHLVLCSPKQTECGH
 RFCECSMAALLSSSSPKCTACQESIVKDKVFKDNCCKREILALQIYCRNESRGCAEQLMLGHLLVHLKND
 CHFEELPCVRPDCKEKVLRKDLRDHVEKACKYREATCSHCKSQVPMIALQKHEDTDCPCVVVSCPHKCSV
 QTLRREGTNQIKAEASSAVQHVNLLKEWSNSLEKKVSLLNESVEKNKSIQSLHNQICSFIEIERQ
 KEMLRNNEKILHLQRVIDSQAELKELDKAIRPFRQNWEEADSMKSSVESLQNRVTELESVDKSAGQVA
 RNTGLLESQSRHDQMLSVHDIRLADMDLRFQVLETASYNGVLIWKIRDYKRRKQEAVMGKTLSLYSQPF
 YTGFGYKMCARVYLNQDGMGKTHLSLFFVIMRGEYDALLPWPFKQKVTMLMDQGSSRRHLGDAFKPD
 PNSSSFKKPTGEMNIASGCPVFAQTVLENGTYIKDDTIFIKVIVDTSDLDPD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-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](#)

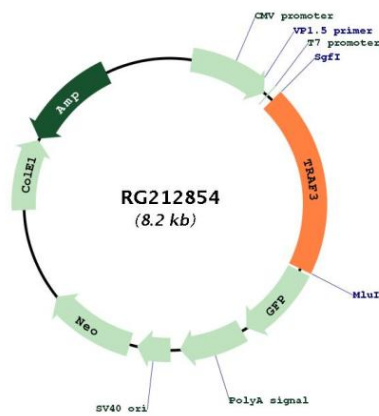
Cytogenetics: 14q32.32

Protein Families: Druggable Genome

Protein Pathways: Pathways in cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, Toll-like receptor signaling pathway

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 RG212854