

Product datasheet for **RG219528**

TRAF6 (NM_004620) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRAF6 (NM_004620) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRAF6
Synonyms:	MGC:3310; RNF85
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219528 representing NM_004620
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTCTGCTAAACTGTGAAAACAGCTGTGGATCCAGCCAGTCTGAAAGTGACTGCTGTGTGGCCATGG
 CCAGCTCCTGTAGCGCTGTAACAAAAGATGATAGTGTGGGTGAACTGCCAGCACGGGAACTCTCCAG
 CTCATTTATGGAGGAGATCCAGGGATATGATGTAGAGTTTGACCCACCCCTGAAAAGCAAGTATGAATGC
 CCCATCTGCTTGTATGGCATTACGAGAAGCAGTGCAAACGCCATGCGGCCATAGGTTCTGCAAAGCCTGCA
 TCATAAAATCAATAAGGGATGCAGGTACAAAATGTCCAGTTGACAATGAAATACTGCTGGAAAATCAACT
 ATTTCCAGACAATTTGCAAACGTGAGATTCTTTCTCTGATGGTGAATGTCCAATGAAGTTGTTTTG
 CACAAGATGGAAGTGAACATCTTGAGGATCATCAAGCACATTGTGAGTTTGTCTTATGGATTGCCCC
 AATGCCAGCGTCCCTTCCAAAAATTCATATTAATATTACATTCTGAAGGATTGTCCAAGGAGACAGGT
 TTCTTGTGACAACTGTGCTGCATCAATGGCATTGAAGATAAAGAGATCCATGACCAGAAGTGCCTTTG
 GCAAATGTCATCTGTGAATACTGCAATACTATACTCATCAGAGAACAGATGCCTAATCATTATGATCTAG
 ACTGCCCTACAGCCCAATTCATGCACATTCAGTACTTTTGGTTGCCATGAAAAGATGCAGAGGAATCA
 CTTGGCACGCCACCTACAAGAGAACACCCAGTACACATGAGAATGTTGGCCAGGCTGTTTCATAGTTTG
 AGCGTTATACCGACTCTGGGTATATCTCAGAGGTCGGGAATTTCCAGGAACTATTCACAGTTAGAGG
 GTCGCCTTGAAGACAAGACCATCAATCCGGGAGCTGACTGCTAAAATGGAACTCAGAGTATGTATGT
 AAGTGAGCTCAAACGAACATTCGAACCCCTTGAGGACAAAGTTGCTGAAATCGAAGCACAGCAGTGAAT
 GGAATTTATATTTGGAAGATTGGCACTTTGGAATGCATTTGAAATGTCAAGAAGAGGAGAAAACCTGTTG
 GTATTCATAGCCCTGGATTCTACACTGGCAAACCCGGGTACAAACTGTGCATGCGCTTGACCTTCAGTT
 ACCGACTGCTCAGCGCTGTGCAAATATATATCCCTTTTGTCCACACAATGCAAGGAGAATATGACAGC
 CACCTCCCTTGGCCCTTCCAGGGTACAATACGCCCTTACAATTCTTGATCAGTCTGAAGCACCTGTAAAGC
 AAAACCACGAAGAGATAATGGATGCCAAACCAGAGCTGCTTGCTTCCAGCGACCCACAATCCCACGGAA
 CCCAAAAGGTTTTGGCTATGTAACCTTTATGCATCTGGAAGCCCTAAGACAAAGAAGCTTTTATTAAAGGAT
 GACACATTATTAGTGGCTGTGAGGTCTCCACCCGCTTTGACATGGGTAGCCTTCGGAGGGAGGTTTTTC
 AGCCACGAAGTACTGATGCAGGGGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG219528 representing NM_004620
 Red=Cloning site Green=Tags(s)

MSLLNCENSQSSQSESDCCVAMASSCSAVTKDSDVGGTASTGNLSSSFMEEIQGYDVEFDPPLESKYEC
 PICLMALREAVQTPCGHRFCACIKSIRDAGHKCPVDNEILLENQLFPDNFAKREILSLMVKCPNEGCL
 HKMELRHLEDHQAHCEFALMDCPQCQRPFQKFHINIHLKDCPRRQVSCDNCAASMAFEDKEIHDQNCPL
 ANVICEYCNTILIREQMPNHYDLDCPTAPIPCTFSTFGCHEKMQRNHLARHLQENTQSHMRMLAQAVHSL
 SVIPDSGYISEVRNFQETIHQLEGRLVQRDQHQIRELTAKMETQSMYVSELKRTIRTLEDKVAEIEAQQCN
 GIYIWKIGNFGMHLKCQEEKPVVIHSPGFYTGKPGYKLCMRLHLQLPTAQRANYISLFFVHTMQGEYDS
 HLPWPFQGTIRLTILDQSEAPVRQNHEEIMDAKPELLAFQRPTIPRNPKGFGYVTFMHLEALRQRTFIKD
 DTLVLRCEVSTRFDMGSLRREGFQPRSTDAGV

TRTRPLE - GFP Tag - V

Restriction Sites:

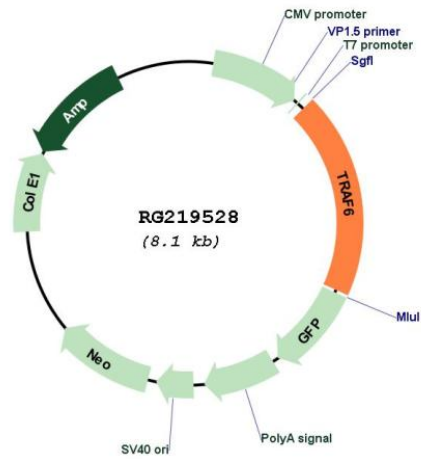
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<ol style="list-style-type: none">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_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

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 I kappaB 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]