

Product datasheet for **RR211042**

Traf6 (NM_001107754) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Traf6 (NM_001107754) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Traf6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR211042 representing NM_001107754
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTCTCTAAACTGTGAAAACAGCTGTGCGTCCAGCCAGTCTCAAGCGACTGCTGTGCTGCCATGG
 CCAACTCTGCAGTGTGCCATGAAAGATGACAGTGTGAGTGGCTGTGTCAGCACGGGAACTGTCCAG
 CTCTTCATGGAGGAGATCCAGGGATATGATGTGGAGTTTGACCCACCTTTGAAAAGCAAGTATGAGTGC
 CCCATCTGCTTGTAGGCTTTACGGGAAGCAGTGCAAAACACCATGTGGCCACAGGTTCTGCAAAGCCTGCA
 TCACCAAGTCCATAAGGGATGCAGGTACAAGTGCCAGTTGACAATGAAATACTGCTGGAAAATCAACT
 GTTTCCTGACAATTTTCAAAGCGAGAGATTCTTCCCTGACGGTAAAGTGTCAAATAAAGGCTGTGTG
 CAAAAGATGGAGCTGAGACATCTCGAGGATCATCAAGTACATTGTGAATTCGCTCTAGTATTTGCCCC
 AATGCCAACGTTTTTCCAAAAGTGCCAGATTAATAAACACATTATCGAGGATTGTCCAGGAGACAGGT
 TTCTTGTGTAAGTGTGCTGTGCCATGCCGATGAAGAGAAAGAGATCCACGATCAAAGCTGTCCTCTG
 GCAAATATCATCTGTGAATACTGTGGTACAATCCATCAAGAGAACAGATGCCTAATCATTATGATCTAG
 ACTGCCAACAGCTCCAGTCCCCTGCACATTCAGTGTGTTGGCTGTACAGAAAAGATGCAGAGGAATCA
 CTTGGCACGGCACTTGAAGAGAACACCCAGTTGCACATGAGACTGTTGGCCAGGCTGTTCATAATGTT
 AACCTCTCTTGGCGCATGCGATGCCTCCTCCATCCCGGGATGTGCTCCTGAGGACCCAAATTATG
 AGGAAACGGTCAAACAGTTGGAGGGGCGCTAGTAAGACAGGACCATCAAATCCGGGAGCTGACCGCAA
 AATGGAACGCAGAGCATGCATGTGAGCGAGCTCAAGCGGACATTGAAGCCTCGAGGACAAAGTTGCC
 GAGATGGAAGCACAGCAGTGAATGGCATTACATTTGGAAGATTGGCAACTTTGGGATGCACCTGAAAT
 CCCAAGAAGAGGAAAGACCTGTGGTCAATCATAGCCCTGGATTCTACACAGGCAGACCTGGGTACAAGCT
 GTGCATGCGCCTGCACCTCCAGCTACCGAGCGCTCAGCGCTGTGCAAACTACATTTCCCTCTTTGTCCAC
 ACAATGCAAGGAGAGTATGACAGCCACCTCCCCTGGCCCTCCAGGGTACAATACGCCTCACGATCCTTG
 ATCAGTCTGAAGCAGTAATAAGGCAAAACCACGAAGAGGTATGGATGCTAAGCCAGAAGTCTTGCCTT
 TCAGCGGCCACCATCCCACGGAACCCAAAGTTTTGGCTATGTGACATTCATGCACCTGGAAGCCTTA
 AGACAGGGAACCTTCATCAAGGATGATACGTTATTAGTGCCTGTGAAGTCTCTACCCGCTTTGACATGG
 GGGCCTTCGGAAGGAGGGTTCCAGCCACGGAGTACTGATGCAGGCGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR211042 representing NM_001107754
 Red=Cloning site Green=Tags(s)

MSLLNCENSCASSQSSSDCCAAMANSCSAAMKDDSVSGCVSTGNLSSSFMEIIQGYDVEFDPPLESKYEC
 PICLMALREAVQTPCGHRFKACITKSIIRDAGHKCPVDNEILLENQLFPDNFAKREILSLTVKCPNKGCV
 QKMELRHLEDHQVHCEFALVICPQCQRFFQKQCINKHIIEDCPRRQVSCVNCVAVPMPYEEKEIHDQSCPL
 ANIICEYCGTILIREQMPNHYDLDCPTAPVPCTFSVFGCHEKMQRNHLARHLQENTQLHMRLLAQAVHNV
 NLSLRPCDASSPSRGRPEDPNYEETVKQLEGRQVLDHQIREL TAKMETQSMHVSELKRTIRSLKEDKVA
 EMEAQQCNGIYIWKIGNFGMHLKSQEEERPVIHSPGFYTRPGYKLCMRLHLQLPTAQRCANYISLFFVH
 TMQGEYDShLPWPFQGTIRLTILDQSEAVIRQNHHEEVMDAPELLAFQRPTIPRNPKGFGYVTFMHLEAL
 RQGTFIKDDTLLVRCEVSTRFDMGGLRKEGFQPRSTDAGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKVG

Restriction Sites:

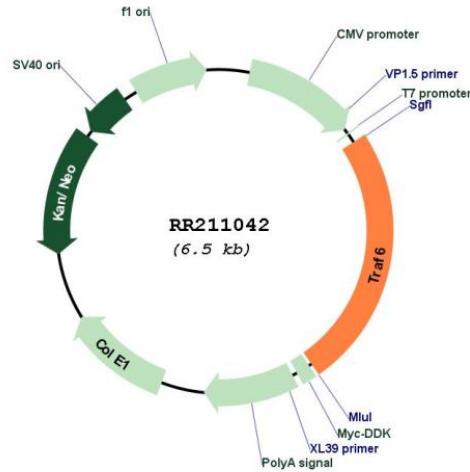
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001107754

ORF Size: 1590 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_001107754.2 , NP_001101224.1
RefSeq Size:	2753 bp
RefSeq ORF:	1593 bp
Locus ID:	311245
UniProt ID:	B5DF45
Cytogenetics:	3q31
MW:	60.3 kDa
Gene Summary:	<p>E3 ubiquitin ligase that, together with UBE2N and UBE2V1, mediates the synthesis of 'Lys-63'-linked-polyubiquitin chains conjugated to proteins, such as IKBKG, IRAK1, AKT1 and AKT2. Also mediates ubiquitination of free/unanchored polyubiquitin chain that leads to MAP3K7 activation. Mediates activation of NF-kappa-B and JUN. May be essential for the formation of functional osteoclasts. Seems to also play a role in dendritic cells (DCs) maturation and/or activation. Represses c-Myb-mediated transactivation, in B-lymphocytes. Adapter protein that seems to play a role in signal transduction initiated via TNF receptor, IL-1 receptor and IL-17 receptor. Regulates osteoclast differentiation by mediating the activation of adapter protein complex 1 (AP-1) and NF-kappa-B, in response to RANK-L stimulation. Together with MAP3K8, mediates CD40 signals that activate ERK in B-cells and macrophages, and thus may play a role in the regulation of immunoglobulin production.[UniProtKB/Swiss-Prot Function]</p>