OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC209219

TRIB1 (NM_025195) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TRIB1
Synonyms:	C8FW; GIG-2; GIG2; SKIP1; TRB-1; TRB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC209219 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGGTCGGTCCGGTGCGCTCTGCCATGAGCGGCGCCTCGCAGCCCCGCGGCCCGGCCCTGCTCTTCC
CAGCCACCCGAGGCGTCCCGGCCAAACGCCTGCTGGACGCCGACGACGCGGCGGCTGTGGCGGCCAAGTG
CCCGCGCCTCTCCGAGTGCTCCAGCCCCCCGGACTACCTCAGCCCCCCCGGCTCGCCCTGCAGTCCGCAG
CCCCCGCCTGCCGCTCCGGGGGCCGGCGGAGGCTCCGGGAGCGCGCCGGGGCCCAGCCGCATCGCCGACT
ACCTGCTGCTGCCCCTAGCCGAGCGCGAGCATGTGTCCCGGGCGCTGTGCATCCACACTGGACGCGAGCT
GCGCTGCAAGGTGTTTCCCATTAAACACTACCAGGACAAAATCAGGCCTTACATCCAGCTGCCATCGCAC
AGCAACATTACTGGCATTGTGGAAGTGATCCTTGGGGAAACCAAGGCCTATGTCTTCTTTGAGAAGGACT
TTGGGGACATGCACTCCTATGTGCGAAGCCGGAAGAGGCTGCGGGAAGAGGAAGCCGCCCGGCTCTTCAA
GCAGATTGTCTCCGCCGTCGCCCACTGCCACCAGTCAGCCATCGTGCTGGGGGACCTGAAGCTTAGGAAG
TTCGTCTTCTCCACGGAGGAGAGAACCCAGCTTAGACTAGAAAGTCTAGAAGACACACACATAATGAAGG
GGGAAGATGATGCTTTGTCAGACAAACATGGCTGCCCAGCCTACGTGAGCCCTGAGATCCTCAACACCAC
TGGGACCTACTCCGGAAAGGCTGCGGACGTTTGGAGCCTGGGGGTGATGCTCTACACCCTTCTGGTTGGA
CGATACCCCTTCCATGACTCAGACCCCAGTGCCCTTTTCTCCAAAATTCGGCGTGGACAGTTCTGCATTC
CTGAGCACATTTCCCCCAAAGCCAGGTGCCTCATTCGCAGCCTCTTGAGACGGGAGCCCTCCGAGAGACT
CACTGCCCCCGAGATCCTACTGCACCCCTGGTTTGAGTCCGTCTTGGAACCCGGGTACATCGACTCAGAA
ATAGGAACTTCAGACCAGATTGTTCCAGAGTACCAGGAGGACAGTGACATTAGTTCCTTCTTCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC209219 protein sequence
Red=Cloning site Green=Tags(s)

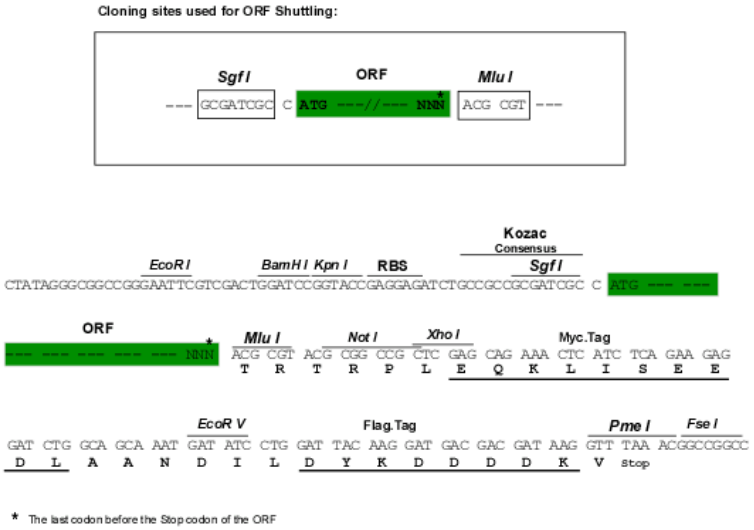
MRVGPVRSAMSGASQPRGPALLFPATRGVPAKRLLDADDAAAVAAKCPRLSECSSPPDYLSPPGSPCSPQ
PPPAAPGAGGGSGSAPGPSRIADYLLLPLAEREHVSRALCIHTGRELRCKVFPIKHYQDKIRPYIQLPSH
SNITGIVEVILGETKAYVFFEKDFGDMHSYVRSRKRLREEEAARLFKQIVSAVAHCHQSAIVLGDLKLRK
FVFSTEERTQLRLESLEDTHIMKGEDDALSDKHGCPAYVSPEILNTTGTYSGKAADVWSLGVMLYTLLVG
RYPFHDSDPSALFSKIRRGQFCIPEHISPKARCLIRSLLRREPSERLTAPEILLHPWFESVLEPGYIDSE
IGTSDQIVPEYQEDSDISSFFC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6224_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025195

ORF Size: 1116 bp

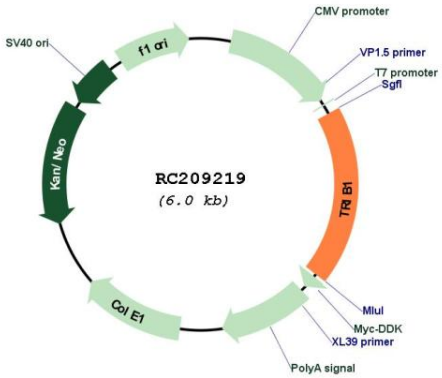
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

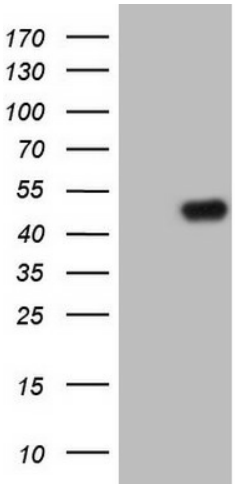
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_025195.4
RefSeq Size:	3649 bp
RefSeq ORF:	1119 bp
Locus ID:	10221
UniProt ID:	Q96RU8
Cytogenetics:	8q24.13
Domains:	pkinase, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
MW:	41 kDa
Gene Summary:	Adapter protein involved in protein degradation by interacting with COP1 ubiquitin ligase (PubMed:27041596). The COP1-binding motif is masked by autoinhibitory interactions with the protein kinase domain (PubMed:26455797). Serves to alter COP1 substrate specificity by directing the activity of COP1 toward CEBPA (PubMed:27041596). Binds selectively the recognition sequence of CEBPA (PubMed:26455797). Regulates myeloid cell differentiation by altering the expression of CEBPA in a COP1-dependent manner (By similarity). Controls macrophage, eosinophil and neutrophil differentiation via the COP1-binding domain (By similarity). Interacts with MAPK kinases and regulates activation of MAP kinases, but has no kinase activity (PubMed:15299019, PubMed:26455797).[UniProtKB/Swiss-Prot Function]

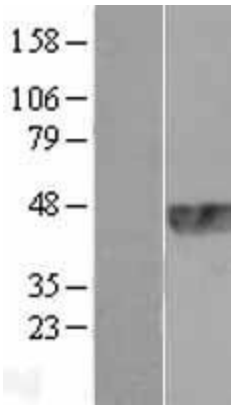
Product images:



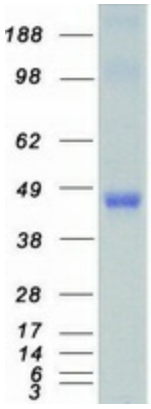
Circular map for RC209219



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TRIB1 (Cat# RC209219, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TRIB1(Cat# [TA805274]). Positive lysates [LY410846] (100ug) and [LC410846] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY410846]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209219 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TRIB1 protein (Cat# [TP309219]). The protein was produced from HEK293T cells transfected with TRIB1 cDNA clone (Cat# RC209219) using MegaTran 2.0 (Cat# [TT210002]).