

Product datasheet for **RG209219**

TRIB1 (NM_025195) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRIB1 (NM_025195) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRIB1
Synonyms:	C8FW; GIG-2; GIG2; SKIP1; TRB-1; TRB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209219 representing NM_025195 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGGTCGGTCCGGTGCCTCTGCCATGAGCGGCGCCTCGCAGCCCCGCGGCCGGCCCTGCTCTTCC
CAGCCACCCGAGGCGTCCCGCCAAACGCTGCTGGACGCCGACGACGCGCGGCTGTGGCGCCAAGTG
CCCGGCCTCTCCGAGTCTCCAGCCCCCGACTACCTCAGCCCCCGGCTCGCCCTGCAGTCCGCAG
CCCCGCCTGCCCTCCGGGGCCGGCGAGGCTCCGGGAGCGCGCGGGGCCAGCCGCATCGCCGACT
ACCTGCTGCTGCCCTAGCCGAGCGGAGCATGTGTCCCGGGCGCTGTGCATCCACTGGACGCGAGCT
GCCTGCAAGGTGTTCCATTAACACTACCAGGACAAAATCAGGCCTTACATCCAGCTGCCATCGCAC
AGCAACATTACTGGCATTGTGGAAGTGATCCTTGGGAAACCAAGGCCTATGTCTCTTTGAGAAGGACT
TTGGGGACATGCACTCCTATGTGCGAAGCCGGAAGAGGCTGCGGGAAGAGGAAGCCCGCCGGCTCTTCAA
GCAGATTGTCTCCGCCGTCGCCACTGCCACAGTCAGCCATCGTGTGGGGACCTGAAGCTTAGGAAG
TTCGTCTTCTCCACGGAGGAGAGAACCAGCTTAGACTAGAAAGTCTAGAAGACACACATAATGAAGG
GGGAAGATGATGCTTTGTGACAAACATGGCTGCCAGCCTACGTGAGCCCTGAGATCCTCAACACCAC
TGGGACCTACTCCGAAAGGCTGCGGACGTTTGGAGCCTGGGGGTGATGCTCTACACCCTCTGGTTGGA
CGATACCCCTTCCATGACTCAGACCCAGTGCCCTTTTCTCCAAAATTCGGCGTGGACAGTCTGCATTC
CTGAGCACATTTCCCCAAAGCCAGGTGCCTCATTGCGAGCCTTGTAGACGGGAGCCCTCCGAGAGACT
CACTGCCCCGAGATCCTACTGCACCCCTGGTTTGTGAGTCCGTCTTGAACCCGGGTACATCGACTCAGAA
ATAGGAACCTCAGACCAGATTGTTCCAGAGTACCAGGAGGACAGTGACATTAGTTCCTTCTCTGCT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209219 representing NM_025195
 Red=Cloning site Green=Tags(s)

MRVGPVRSAMSGASQPRGPALLFPATRGVPAKRLLDADDAVAVAKCPRLSECSSPPDYLSPPGSPCSPQ
 PPPAAPGAGGGSGSAPGPSRIADYLLLPLAEREHVSRLCIHTGRELCKVFPIKHYQDKIRPYIQLPSH
 SNITGIVEVILGETKAYVFEKDFGDMHSYVRSRKRLREEEAARLFKQIVSAVAHCHQSAIVLGDCLKLRK
 FVFSTEERTQLRLESLEDTHIMKGEDDALSDKHGCPAYVSPEILNTTGTYSGKAADVWSLGVMLYTLVVG
 RYPFHSDPSALFSKIRRGQFCIPEHISPKARCLIRSLLRREPSERLTAPEILLHPWFESVLEPGYIDSE
 IGTSDQIVPEYQEDSDISSFFC

TRTRPLE - GFP Tag - V

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.

RefSeq: [NM_025195.2](#), [NP_079471.1](#)

RefSeq Size: 3658 bp

RefSeq ORF: 1119 bp

Locus ID: 10221

UniProt ID: [Q96RU8](#)

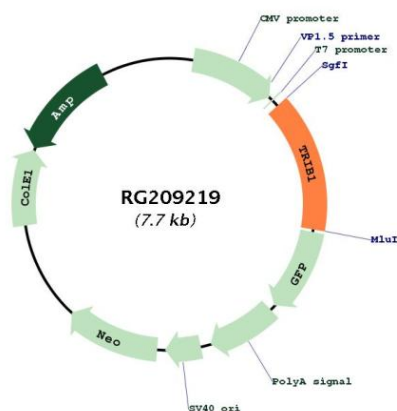
Cytogenetics: 8q24.13

Domains: pkinase, S_TKc

Protein Families: Druggable Genome, Protein Kinase

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 RG209219