

## Product datasheet for **RC236558**

### TRIB1 (NM\_001282985) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TRIB1 (NM\_001282985) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** TRIB1  
**Synonyms:** C8FW; GIG-2; GIG2; SKIP1; TRB-1; TRB1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236558 representing NM\_001282985  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCACTCCTATGTGCGAAGCCGGAAGAGGCTGCGGGAAGAGGAAGCCGCCGGCTCTTCAAGCAGATTG  
TCTCCGCCGTCGCCACTGCCACCAGTCAGCCATCGTGCTGGGGACCTGAAGCTTAGGAAGTTCGTCTT  
CTCCACGGAGGAGAGAACCAGCTTAGACTAGAAAGTCTAGAAGACACACATAATGAAGGGGGAAGAT  
GATGCTTTGTAGACAAACATGGCTGCCAGCCTACGTGAGCCCTGAGATCCTAACACCACTGGGACCT  
ACTCCGAAAGGCTGCGGACGTTTGGAGCCTGGGGGTGATGCTCTACACCCTTCTGGTTGGACGATACCC  
CTTCCATGACTCAGACCCAGTGCCCTTTTCTCCAAAATTCGGCGTGGACAGTTCTGCATTCTGAGCAC  
ATTTCCCCCAAAGCCAGGTGCCTCATTGCGAGCCTCTTGAGACGGGAGCCCTCCGAGAGACTCACTGCC  
CCGAGATCCTACTGCACCCTGGTTTGGTCCGCTTGGAAACCCGGGTACATCGACTCAGAAATAGGAAC  
TTCAGACCAGATTGTTCCAGAGTACCAGGAGACAGTGACATTAGTTCCTTCTTCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236558 representing NM\_001282985  
Red=Cloning site Green=Tags(s)

MHSYVRSRKRLREEEAARLFKQIVSAVAHCHQSAIVLGDCLKLRKRVFVSTEERTQLRLESLEDTHIMKGED  
DALSDKHGCPAYVSPEILNTTGTYSKAAADVWSLGVMLYTLLVGRYPFHSDPSALFSKIRRGQFCIPEH  
ISPKARCLIRSLRREPSERLTAPEILLHPWFESVLEPGYIDSEIGTSDQIVPEYQEDSDISSFFC

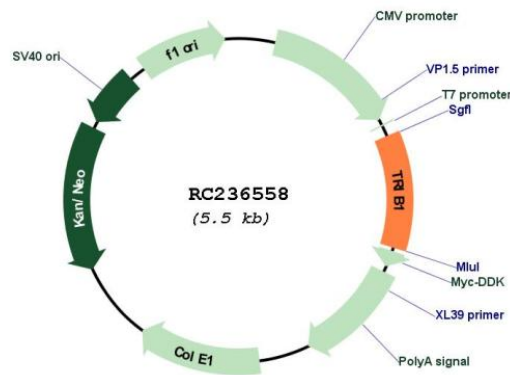
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001282985

**ORF Size:** 618 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\\_001282985.1](#), [NP\\_001269914.1](#)

**RefSeq Size:** 2823 bp

**RefSeq ORF:** 621 bp

**Locus ID:** 10221

**UniProt ID:** [Q96RU8](#)

**Cytogenetics:** 8q24.13

**Protein Families:** Druggable Genome, Protein Kinase

**MW:** 23.9 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]