

Product datasheet for MR205755

Trib1 (NM_144549) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trib1 (NM_144549) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trib1
Synonyms:	A530090O15Rik; TRB-1; Trb1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205755 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATCGGGTCCGGTCCCGTTCGCTTTTGCCTGAGCGGCGCCTCGCAGCCCCGCGGTCCGGTCTACTGTTTC
CGGCTGCCCGGGAAACCCCGCCAAACGCTGCTGGACACGGACGACGCGGGGGCAGTGGCGCCAAGTG
TCCGCGCCTCTGAGTCTGAGTCCCCCGACTACCTCAGTCCCCCTGGCTCGCCCTGCAGCCCTCAG
CCTCCGCCCTCCACGCAGGGGACCGCGGCAGCTGTGTGAGCTCACCCGGGCCAGCCGAATCGCCGACT
ACCTGCTGCTACCCCTAGCTGAGCGCGAGCATGTGTCCCGGGCACTGTGCATCCACACCGCCGCGAGCT
GCCTGCAAGGAATTCCCATTAACACTACCAGGACAAAATCAGGCCTTACATCCAGCTGCCGTCCCAT
AGCAACATCACTGGCATTGTGGAGGTGCTCCTTGGTGGAGCAAGGCCTACGTCTTCTTCGAGAAGGACT
TTGGAGACATGCACTCCTATGTGCGGAGCCGAAAACGGCTTCGGGAAGAGGAGGCCGCTCGGCTCTTCAA
GCAGATTGTTTCCGCCGTCGCCACTGCCACCAGTCGGCCATCGTGTGGGGACCTGAAGCTCAGGAAG
TTCGTCTTCCACCGAGGAGAGAACCAGCTTAGACTGGAAAGCCTGGAAGATACTCACATCATTAAGG
GTGAAGATGATGCGCTGTAGATAAACATGGCTGCCAGCCTACGTGAGCCCCGAGATCCTCAACTAC
TGGGACCTACTTGAAAGGCGGGGACGCTGTGGAGCCTCGGGGTGATGCTCTATACGCTTTTGGTCGGA
CGATACCCCTTTCATGACTCAGATCCGAGTCCCTTTTTTCCAAAATCCGCCGTGGACAGTTCTGCATTC
CTGAGCACGTCTCCCCAAAGCCAGGTGCCTCATCCGAAGCCTCCTAAGACGAGAACCTTCTGAGAGACT
CACAGCTCCTCAGATCTTACTCCATCCCTGGTTCGAGTATGTCTTGAACCGGGCTATGTTGACTCAGAA
ATAGGAACTTCAGACCAGATTGTTCTGAGTACCAGGAGGACAGTGACATAAGTTCCTTCTCTGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205755 protein sequence
 Red=Cloning site Green=Tags(s)

MRVGPVRFALSGASQPRGPGLLFPAARGTPAKRLLDIDDAGAVAAKCPRLSECSSPPDYLSPPGSPCSPQ
 PPPSTQGTGGSCVSSPGPSRIADYLLLPLAEREHVSRLCIHTGRELRCKEFPIKHYQDKIRPYIQLPSH
 SNITGIVEVLLGESKAYVFEKDFGDMHSYVRSRKRLEEEAARLFKQIVSAVAHCHQSAIVLGDCLKLRK
 FVFSTEERTQLRLESLEDTHIIKGEDDALSDKHGCPAYVSPEILNTTGTYSGKAADVWSLGVMLYTLVVG
 RYPFHSDPSALFSKIRRGQFCIPEHVSPKARCLIRSLLRREPSERLTAPQILLHPWEYVLEPGYVDSE
 IGTSDQIVPEYQEDSDISSFFC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_144549

ORF Size: 1119 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_144549.4](#), [NP_653132.1](#)

RefSeq Size: 4026 bp

RefSeq ORF: 1119 bp

Locus ID: 211770

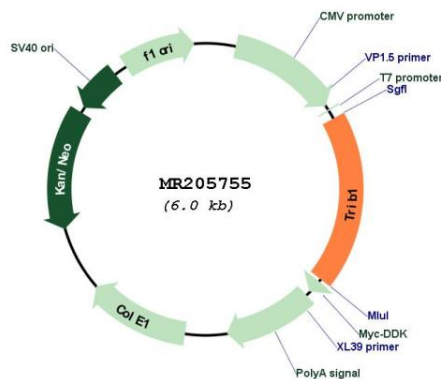
UniProt ID: [Q8K4K4](#)

Cytogenetics: 15 D1

MW: 41.3 kDa

Gene Summary: Adapter protein involved in protein degradation by interacting with COP1 ubiquitin ligase (PubMed:23515163, PubMed:20410507). Promotes CEBPA degradation and inhibits its function (PubMed:20410507). Controls macrophage, eosinophil and neutrophil differentiation via the COP1-binding domain (PubMed:24003916, PubMed:23515163). Regulates myeloid cell differentiation by altering the expression of CEBPA in a COP1-dependent manner (PubMed:23515163). Interacts with MAPK kinases and regulates activation of MAP kinases, but has no kinase activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205755