

Product datasheet for MR204806

Trib3 (BC012955) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trib3 (BC012955) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trib3
Synonyms:	Trb3, Nipk, SINK, SKIP3, TRB-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204806 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGAGCTACACCTCTGGCTGCTTCTGCTGATGTTTCTGCAGGAAGAAACCGTTGGAGTTTGATGACA
ATATTGATGCCAAGTGCCAGTCTAAAACGAGTGAGAGATGAGCCTGAGCCCGGACCACTCCCCAGCCT
GCTGCCCCCAGCCACCTCCCGCCTCAGACTTGTACCTGCTGTGGCCCTGCAACTCGACTGGGGCT
TATATCCTTTTGAACGAGAGCAAGGCAGCTGCAGCTATCGAGCCCTGCACTGCCCCACAGGCACAGAGT
ACACCTGCAAGGTGTACCCTGCCAGCGAGGCCAGGCGGTGCTGGCACCTTATGCCCGGCTGCCTACCCA
CCAGCATGTGGCCGTCCACAGAGTCTGCTGGGCTCTCGGCTCCTTACATCTTTTACGAAGACC
CATGGGGACTTGACAGCCTGGTGCGCAGCCGCCGCGGTATCCCAGAGCCGAGGCTGCCGGCTCTTCC
GGCAGATGGCTAGTGCCGTGGCACACTGCCACAAGCACGGGCTTGTCTTGCGCGACCTCAAGCTGCGTCG
CTTTGTCTTCAGCAACTGTGAGAGGACGAAGCTGGTGTGGAGAACCTGGAAGATGCCTGCGTGATGACT
GGATCAGATGACTCTGTGGGACAAGCATGCGTGCCCTGCTACGTGGGACCAGAGATACTCAGCTCCC
GGCCATCTACTTGAGCCAGTCTGCTCTTTGGCAAGATCCGTAGAGGGACCTTGGCCCTGCCTGAGGG
CCTATCAGCCCCAGCCGCTGTCTGATCCGCTGTCTCCTCCGCAAGGAACCTTCAGAGCGACTTGCGCC
CTGGGAATCCTCTTGCATCCCTGGTTGAGAGAGGATCACGGCCGAGTCTCTCCTCCACAGTCTGACCGAA
GGGAGATGGACCAGGTGGTCCAGATGGGCCACAGCTGGAGGAGGCTGAGGAAGGGAGGTGGGGCTGTA
CGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204806 protein sequence
Red=Cloning site Green=Tags(s)

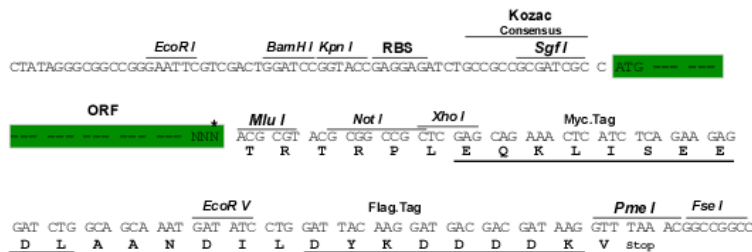
MRATPLAASADVSCRKKPLEFDDNIDAKCPVLKRVRDEPEPGPLPSLLPPSPPASDLSPAVAPATRLGP
 YILLEREQGSYSRALHCPTGTEYTKVYPASEAQAVLAPYARLPTHQHVARPTEVLLGSRLLYIFFTKT
 HGDHLHLVRSRRGIPEPEAAGLFRQMASAVAHCHKHGLVLRDLKLRRFVFNCCERTKLVLENLEDACVMT
 GSDDSLWDLKACPAYVGPPEILSSRPSYSEPVLLFGKIRRGTFALPEGLSAPARCLIRCLLRKEPSERLVA
 LGILLHPWLREDHGRVSPQSDRREMDQVVPDGPQLLEEAEEGEVLYG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC012955

ORF Size: 984 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: [BC012955](#), [AAH12955](#)

RefSeq Size: 1969 bp

RefSeq ORF: 986 bp

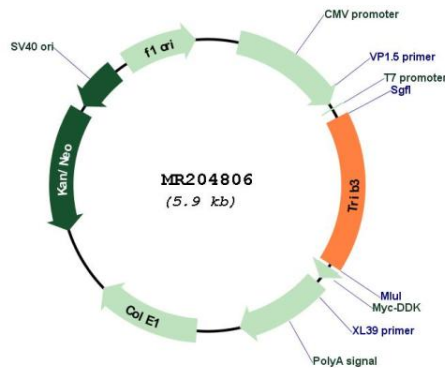
Locus ID: 228775

Cytogenetics: 2 74.83 cM

MW: 36.2 kDa

Gene Summary: Disrupts insulin signaling by binding directly to Akt kinases and blocking their activation. May bind directly to and mask the 'Thr-308' phosphorylation site in AKT1. Binds to ATF4 and inhibits its transcriptional activation activity. Interacts with the NF-kappa-B transactivator p65 RELA and inhibits its phosphorylation and thus its transcriptional activation activity. Interacts with MAPK kinases and regulates activation of MAP kinases. May play a role in programmed neuronal cell death but does not appear to affect non-neuronal cells. Does not display kinase activity. Inhibits the transcriptional activity of DDIT3/CHOP and is involved in DDIT3/CHOP-dependent cell death during ER stress (By similarity). Can inhibit APOBEC3A editing of nuclear DNA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204806