

## Product datasheet for **MG226343**

### Trib3 (NM\_175093) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trib3 (NM_175093) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trib3
Synonyms:	lfd2; Nipk; SINK; SKIP3; TRB-3; Trb3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226343 representing NM_175093 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGAGCTACACCTCTGGCTGCTTCTGCTGATGTTTCCTGCAGGAAGAAACCGTTGGAGTTTGATGACA  
ATATTGATGCCAAGTGTCCAGTCTAAAACGAGTGAGAGATGAGCCTGAGCCCGGACCACTCCCCAGCCT  
GCTGCCCCCAGCCACCTCCCGCCTCAGACTTGTACCTGCTGTGGCCCTGCAACTCGACTGGGGCT  
TATATCCTTTTGAACGAGAGCAAGGCAGCTGCAGCTATCGAGCCCTGCACTGCCCCACAGGCACAGAGT  
ACACCTGCAAGGTGTACCCTGCCAGCGAGGCCAGGCGGTGCTGGCACCTTATGCCCGGCTGCCTACCCA  
CCAGCATGTGGCCGTCCACAGAGGTCTGCTGGGCTCTCGGCTCCTTACATCTTTTACGAAGACC  
CATGGGGACTTGACAGCCTGGTGCAGCCGCGCGGTATCCCAGAGTCCGAGGCTGCCGGGCTCTTCC  
GGCAGATGGCTAGTGCCTGGCACACTGCCACAAGCACGGGCTTGTCTTGCAGCCTCAAGCTGCGTCG  
CTTTGTCTTCAGCAACTGTGAGAGGACGAAGCTGGTGTGGAGAACCTGGAAGATGCCTGCGTGATGACT  
GGATCAGATGACTCTCTGTGGACAAGCATGCGTGCCCTGCTACGTGGGACCAGAGATACTCAGCTCCC  
GGCCATCTACTCTGGCAAAGCGGCTGATGTCTGGAGCCTGGGTGTGGCGCTCTTACCATGCTGGCTGG  
CAGATACCCATTCCAGACTCTGAGCCAGTCTGCTCTTTGGCAAGATCCGTAGAGGGACCTTTGCCCTG  
CCTGAGGGCCTATCAGCCCCAGCCGCTGTCTGATCCGCTGTCTCCTCGCAAGAACCTTCAGAGCGCAT  
TTGTGGCCCTGGGAATCCTCTTGATCCCTGGTTGAGAGAGGATCACGGCCGAGTCTCTCCTCCACAGTC  
TGACCGAAGGGAGATGGACCAGGTGGTCCAGATGGGCCACAGCTGGAGGAGGCTGAGGAAGGGAGGTG  
GGGCTGTACGGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG226343 representing NM\_175093  
 Red=Cloning site Green=Tags(s)

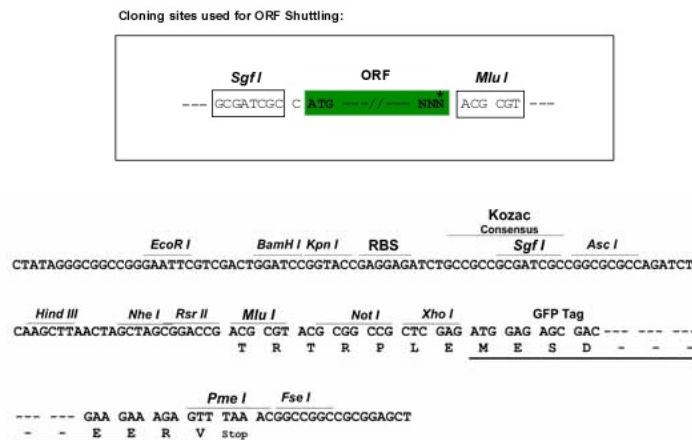
MRATPLAASADVSCRKKPLEFDDNIDAKCPVLKRVRDEPEPGPLPSLLPPSPPASDLSPAVAPATRLGP  
 YILLEREQGSYRALHCPTGTEYTKVYPASEAQAVLAPYARLPTHQHVARPTEVLLGSRLLYIFFTKT  
 HGDLHSLVRSRRGIPSEAAGLFRQMASAVAHCHKHGLVLRDLKLRRFVFSNCERTKLVLENLEDACVMT  
 GSDDSLWDKHACPAYVGPPEILSSRPSYSKGAADVWSLGVALFTMLAGRYPFHDSEPVLLFGKIRRGTFAL  
 PEGLSAPARCLIRCLLRKEPSERLVALGILLHPWLREDHGRVSPPOSDRREMDQVVPDGPQLEEAEEGEV  
 GLYG

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2338\\_a01.zip](https://cdn.origene.com/chromatograms/ja2338_a01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_175093

**ORF Size:** 1062 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\\_175093.2](#), [NP\\_780302.2](#)

**RefSeq Size:** 2051 bp

**RefSeq ORF:** 1065 bp

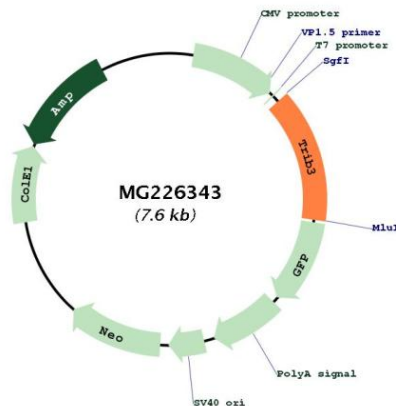
**Locus ID:** 228775

**UniProt ID:** [Q8K4K2](#)

**Cytogenetics:** 2 74.83 cM

**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 MG226343