

Product datasheet for **MC228494**

Tiam2 (NM_001286757) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tiam2 (NM_001286757) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tiam2
Synonyms:	3000002F19Rik; mKIAA2016; STEF
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228494 representing NM_001286757
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGCACCAACAGAGAGCCATGACCCACCTCCAGGCCTCTGGCTCGTCACCTCTCAGATGCAGATC
 GCCTCCGAAAGTCATCCAGGAGCTTGTAGACACAGAGAAGTCTTACGTGAAGGATCTGAGCTGCCTCTT
 TGAATACTTTGGAGCCACTTCAGAATGAGACCTTTCTACCCAAGATGAGATGGAGTCACTTTTTGGG
 AGCCTGCCAGAGATGCTGGAGTTTCAAAGGTGTTCTGGAGACGTTGGAGGATGCGATCTCCGCTTCT
 CGGACTTTAGTGTCTGGAAACCCCTCACAGTTTCGAAAATTGCTGTTCTCCCTGGAGGTTCTTTCT
 CTAATGCGGATCACTTAAGCTATACAGTGGTTCGTGCCAACACATTAAGTACAGAGGGTTCTA
 GAGCGAGTAAAACGGACAAGGCCTTCAAGGCTTTCTGGATGCCGAAATCCCACCAAGCAGCACTCT
 CCACGCTGGAGTCTATCTCATCAAGCCTGTTCCAGAGAGTGTCAAGTATCTCTGCTTCTCAAGGAGT
 AGTGTCACTGACTGACCATGAGAGTGAAGAACACTATCACCTGACAGAAGCACTAAAGGCCATGGAAAA
 GTCGCCAGTCACTCAATGAGATGCAGAAGATCTACGAGGATTACGGGATGGTGTGGTGGACAGCTGGTGG
 CAGAGCAGAGTGGCACAGAGAAGGAAGTACAGAGCTGTCCATGGGGAACTTCTGATGACTCTACAGT
 TTCTGTTGAATCCGTTCTGTCTTAGGAAAAGCCAGGAAGGACATTGAGCTCACAGTATTTGTTTTT
 AAGAGAGCTGTACTACTGGTTTATAAAGAAAAGTCAAGCTGAAAAGAAAAGTGCCTCGAATCCCGGC
 CTGCTCACAACCTGTGACTGGATCCATTTAAATCCGCTGGTTGATCCCATATCTGCGCTTCAAGT
 TAGACTGGGGAACACGGCAGGGACTGAAAATAATTCCACGTGGGAGCTGATTCATACCAAGTCGAAATT
 GAAGGACGGCCAGAAACCATCTTCAACTGTGCTGCAGTGACAGCGAGAACAACCAAGCATTGTTAAGG
 TGATTCGTTCTATTCTGAGAGAGAAGTCCGGCGCCACATAAAGTGTGAGCTGCCACTGGAGAAGACGCTG
 TAAGGACCGGCTAGTACCTCTTAAGAACCAGTTCCTGTTTCAGCCAAATTAGCCTCGTCCAGGTCGTTG
 AAGGGCTCAGAACATCCTCCAGCAGAGTGGCCAGCGAGCCAGCAAGGGCAACTACTGGACTCAG
 ATGAGTGCAGCCTGAGCAGTGGCACCCAGAGTAGCGGCTGCCCGTAGCCGAGAGCAGGCGAGACTCTAA
 GAGCACCGAGCTGGAGAAAGACGCTCAGGAGGGCCTGGCGGAGTTTCCAGATGGTCTTATCAAAGAAAGC
 GACATTCTGAGTATGAAGATGAGGACTCCACCACCCTCTGAAACAGGGTAGCCCTACTAAGGACATTG
 AGATTCAGTTCCAGAGACTGAAAATCTCTGAGGAATCCGACGTGCACCCAGTTGGCAGCAGCCTCTCAC
 AGAGTCAGGTGAACAGCCCAAGCTGGTCAGGGGCCATTTTGGCCATTAAACGGAAAGCAAACAGCACC
 AAGAGGGGCAGAGAACTTTGCTCAAGGCGCAGACTCGTCACCAGTCCCTGGACAGCCACCCAGAAACTG
 CCAGCATTGATCTAACTTGGTCTGGAGAGAGAAATTCAGTGTCCAGAGCTTAACTTCAGTCGTCATGA
 GGAGGGTTTTATGAAACACAGAGCCATGGCAAATCAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001286757
- Insert Size:** 1860 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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:	<ol style="list-style-type: none">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:	<u>NM_001286757.1, NP_001273686.1</u>
RefSeq Size:	3186 bp
RefSeq ORF:	1860 bp
Locus ID:	24001
UniProt ID:	<u>Q6ZPF3</u>
Cytogenetics:	17 1.99 cM
Gene Summary:	<p>Modulates the activity of RHO-like proteins and connects extracellular signals to cytoskeletal activities. Acts as a GDP-dissociation stimulator protein that stimulates the GDP-GTP exchange activity of RHO-like GTPases and activates them. Activates specifically RAC1, but not CDC42 and RHOA. Mediates extracellular laminin signals to activate Rac1, contributing to neurite growth. Involved in lamellipodial formation and advancement of the growth cone of embryonic hippocampal neurons. Promotes migration of neurons in the cerebral cortex. When overexpressed, induces membrane ruffling accompanied by the accumulation of actin filaments along the altered plasma membrane.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1.</p>