

Product datasheet for **MC224598**

Tiam2 (NM_001122998) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tiam2 (NM_001122998) 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
Fully Sequenced ORF:	>MC224598 representing NM_001122998 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGGAACCTCCGAGAGTCAATATACCTTCCAAGGATCCAAGAATCATAGTAATACTGTCACTGGTGCTA
AGCAAAAGCCTTGCTCTCTGAAAATACGCAGCGTTCATGCAAAAGACGAGAAGTCCTTACATGGTTGGAC
TCATGGGAGCAGCGGTGCAGGCTACAAGTCCAGGTCCTAGCCGAAGCTGCCTTCTCACTTTAAGAAT
CACCAGCCTTACGCCACCAGACTCAGTGGACCCACATGTAAGTCTCAAAGGGCACCACCTACTCTAAGC
ACAGAGCAAATACCCCGGAAATGATTTCCAGGGCAACAGTGGTCTTCTTACCTGAGAATGGCTTCCA
CTATGTTGACCGCGAGTCAGAGGAAAGCCATATCACCTCCAATGGGCACCTTCTCACCTGCATGGGAGA
AAGGAAAGCCTCGCTCCACTCTCCAGGCGAGGACCACAGGAGCCCCAGGGTGCTCATCAAGACCTGG
GAAAGCTAGACGGGTGTTAAGAGTCGAGTTCACAACGGTGGCAACCCCAAGGGGACCTCCGAGGA
CCCCAGTGGACCTGTACGGCTGCTGAGATACTCCCTACCTTAGCATCGAAACCTGCCCGGTGCGGGAA
ACCAGGCGGCAATCCGCTGCAGGCTCCCATCCAGCCAGCGGCCCTCTCCACTGACTCTCGCTGCGCT
CCAGCAAAGGCAGCTCCCTGAGCTCAGAGTCATCCTGGTATGACTCCCTGGGGCAACGCTGGGGAGGT
GAGCGAGGTGGAGGGCTCCTTCCGCTCCAGCACTCCAGACCCAGCCTCCCAAGCAGCTTCCCAACC
AGTGACACCAAAAAGCCTTTCAACCAAAGCTCTTCCCTCTCCTCCCTCCGGAATTGTACAAGATCCCA
ACCTGGGGTGCCGCTCACCTTCCGGCACCTGCCTTTCTTCCAATGAGTACATCAGCTCTCAAGTCAGCCT
GAACAACCGAGTCTCCTTTGCGTCTGACATGGATGTGCCCTCCAGGGTGGATCACAGGGATCCCCTGCAC
TATAGTTCCTTTACTCTCCCTGTGCAAGTCAAAGCCTTAACTGAAGATGCAGCTAAGAAAGACACCC
TCAAAGCCAGAATGCGGCGCTTCACTGACTGGACAGGAAGCCTCTCCAGGAAGAAGAGGAACTGCAGGA
ACCCAGGTCCATGGAGGGCAGTGAAGTCTTTGATAGCCACTCAGATGGACTGAATGCAGAAGGGCAGGTG
CCCGCGCAGACATCTTCTTACTGTGGTCAGGGGGCTCGGCTCAGACCCTGCCTCACAGAAGCGAATCCA
CTACGCTATCAGCGTCGATCCCCTCCGACAGAATCTATGAGAATTTTCATGCGAGAGCTCGAAATGAG
CAGGAGCAACACAGAACAGTGGAACTCCACAGAGACCATGGAGTCCAGCAGCGAGTCTGTCACTCA
CTGGAGCAGCTGGATCTGCTCTTTGAGAAGGAGCAGGGAGTGGTCCGGAAGCCGGGTGGCTCTTCTTCA



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AACCCCTTGTCACCTTGAGAAGGAGAGGAACTGGAGCTGGTGGCTCGGAGGAAGTGGAAACAATACTG
 GGTGACCCGTAAAAGGCTGTACTCTGCTGTTTTATGAGACCTATGGAAAGAATTCCACAGAGCAGAATAGT
 GCCCCACGGTGTGCCCTCTTTCAGAGGACAGCATCGTGACGCTGTCCCAGAGCATCCCAAGAAGGAAC
 ACGTGTCTGCCTGAGTAACTCCTGTGGGGACGCTACCTATCCAGGCCACTAGCCAGACAGATCTGGA
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 TGGCAGAGTTCAGCTGTCTGGTGGAGCCCAAGAACAGGAAGGCCATCGAGAATCAGATCCGGCA
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 GGTGGGGAGTTACCAAATCCCAAGAGTCTCCTTGTGCCACCAGCCGCCCTCCAAGCTGGCTCTTGCA
 GGCTGGGCGTCTGTCTGTTTCGTCTTTCATGCTCTGGTGTGTTCCAGAGATGATTCCACTCTCAGGAA
 AAGAACAATTTCCCTTACCAGAGAGGAAAAAGCAAGAAAGGCATATTTTCTTATTGAAAGGTCTGGAC
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 GATTTCTGGAACCTCAGTACCTCAAAGTCCACTAACTCCAACAAGGCCATGACCTGCATCTGTATGG
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 GACAGTTGGAACCCACTCACTATGGTCTTCAGCTCCGAAAGGTGGTTCGATAAAAGTGTGGAGTGGTGTG
 GCCCGCGTGTATGAATACATGCAAGAGCAGGTTTATGATGAAATCGAAGTTTTCCCACTCAGTGTGAT
 GACGTGCAGCTAACCAAGACTGGGGACATGACTGACTTTGGGTTTGCAGTACAGTTCAGGTGGACGAAC
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 AAAGGGCAACGAAATCACAAGCTTAAATGGGGAACCAAGTGTGACCTTGACATCCAGCAGATGGAGGCT
 TTGTTTTCTGAGAAGAGCGTTGGCCTCACTCTAGTCGCCCCGCTGTGACCACAAGACGAACCCCTGTGTG
 CTTCTGGTGCAGCAGTACCTGTTCTCCAGGGACCAGAAAAGTCTGCCGCCCTCTCCAACCCAGTCCCA
 GCTGCTGGAGAAATTCCTGGATAACTTTAGAAAAACCCAGCAGTGAATTCAGCAATGTCCTGAGAT
 ACAACTGGCTTGAAGAGGAGCCAGACAGAAGGCACCCTGGATCAAGTGCCCCACAGGAAAAAGATGGAGC
 AGACATTCCTGAGCGCTGACCAGATTGCGGAGCTCTGCAGGGACTTGAACAACACCCACACCAACAGTAT
 GGAAGCACCAACAGAGAGCCATGACCCACCTCCAGGCCTCTGGCTCGTACCTCTCAGATGCAGATCGC
 CTCGGAAGTCAATCCAGGAGCTGTAGACACAGAGAAGTCTTACGTGAAGGATCTGAGCTGCCTCTTTG
 AACTATACTTGGAGCCACTTCAGAATGAGACCTTTCTTACCAAGATGAGATGGAGTCACTTTTTGGGAG
 CCTGCCAGAGATGCTGGAGTTTCAAAGGTGTTCTGGAGACGTTGGAGGATGCGATCTCCGCTTCTCG
 GACTTTAGTGTCTGAAACCCCTCACAGTTTCGAAAATGCTGTTCTCCCTTGGAGGTTCTTCTCTCT
 ACTATGCGGATCACTTTAAGCTATACAGTGGGTTCTGTGCAACACATTAAGTACAGAGGTTCTAGA
 GCGAGCTAAAACGACAAGGCCTTCAAGCTTTTCTGGATGCCCGAAATCCCAACAGCAGCACTCTCC
 ACGCTGGAGTCTATCTCATCAAGCCTGTTTCAGAGAGTGTCAAGTATCCTCTGCTTCTCAAGGAGCTAG
 TGTCACTGACTGACCATGAGAGTGAAGAACAATCACCTGACAGAAGCACTAAAGGCCATGGAAAAAGT
 CGCCAGTCACATCAATGAGATGCAGAAGATCTACGAGGATTACGGGATGGTGTGTTGACCAGCTGGTGGCA
 GAGCAGAGTGGCAGAGAGAAGGAAGTGCAGAGCTGTCCATGGGGAACTTCTGATGCACTCTACAGTTT
 CCTGGTTGAATCCGTTCTGTCTCTAGGAAAAGCCAGGAAGGACATTGAGCTCACAGTATTTGTTTTTAA
 GAGAGCTGTACTACTGGTTTATAAAGAAAAGTCAAGCTGAAAAAGAACTGCCCTCGAATTCGGGCT
 GCTCACAACCTGCTGACTTGGATCCATTTAAATTCGCTGGTTGATTCCCATATCTGCGCTTCAAGTTA
 GACTGGGGAACACGGCAGGGACTGAAAATAATCCACGTGGGAGCTGATTCATACCAAGTCGGAATTTGA
 AGGACGGCCAGAAACCATCTTCAACTGTGCTGCAAGTGCAGAGCAGAGAACAAAACAGCATTGTTAAGGTG
 ATTCGTTCTATTCTGAGAGAGAACTTCCGGCGCCACATAAAGTGTGAGCTGCCACTGGAGAAGACGTGTA
 AGGACCGGCTAGTACCTCTTAAGAACCAGTTCCTGTTTCAGCCAAATAGCCTCGTCCAGGTCGTTGAA
 GGGCTCAGAACATCCTCCAGCAGCGAGTGGCCAGCGAGCCAGCAAGGGCACTCACTGGACTCAGAT
 GAGTGCAGCCTGAGCAGTGGCACCCAGAGTAGCGGCTGCCCGTAGCCGAGAGCAGGCGAGACTCTAAGA
 GCACCGAGCTGGAGAAAGACGCTCAGGAGGGCCTGGCGGAGTTTCAGATGGTCTTATCAAAGAAAGCGA
 CATTCTGAGTGAAGATGAGGACTTCCACCACCTCTGAAACAGGGTAGCCCTACTAAGGACATTGAG
 ATTCAGTTCCAGAGACTGAAAATCTCTGAGGAATCCGACGTGCACCCAGTTGGGCAGCAGCTCTCACAG
 AGTCAGGTGAACAGCCAAAGCTGGTCAGGGCCATTTTTGCCCCATTAACCGAAAGCAAACAGCACAA
 GAGGGGACAGGAACTTTGCTCAAGGCGCAGACTCGTACCAGTCCCTGGACAGCCACCCAGAAACTGCC
 AGCATTGATCTAAACTTGGTCTGGAGAGAGAATTCAGTGTCCAGAGCTTAACTTCAAGTGTCAATGAGG
 AGGTTTTTATGAAACACAGAGCCATGGCAAATCATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001122998
Insert Size:	5148 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).
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_001122998.1, NP_001116470.1</u>
RefSeq Size:	6144 bp
RefSeq ORF:	5148 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 (2) has an alternate 5' UTR exon, compared to variant 1. Variants 1 and 2 encode the same isoform (1).</p>