

Product datasheet for MC224853

Tiam2 (NM_011878) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tiam2 (NM_011878) Mouse Untagged Clone
Tag: Tag Free
Symbol: Tiam2
Synonyms: 3000002F19Rik; mKIAA2016; STEF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >MC224853 representing NM_011878
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGA^{ACT}CCGAGAGTCAATATACCTTCCAAGGATCCAAGAATCATAGTAATACTGTCACTGGTGCTA
 AGCAAAAGCCTTGGCTCTCTGAAAATACGCAGCGTTCATGCAAAAGACGAGAAGTCCTTACATGGTTGGAC
 TCATGGGAGCAGCGGTGCAGGCTACAAGTCCAGGTCCTAGCCCCAAGCTGCCTTTCTCACTTTAAGAAT
 CACCAGCCTTACGCCACCAGACTCAGTGGACCCACATGTAAGTCTCAAAGGGCACCACCTACTCTAAGC
 ACAGAGCAAATACCCCGGAAATGATTTCCAGGGCAACAGTGGTGTCTTTCTTACCTGAGAATGGCTTCCA
 CTATGTTGACCGCGAGTCAGAGGAAAGCCATATCACCTCCAATGGGCACCTTCTCACCTGCATGGGAGA
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 CCCCAGTGGACCTGTACGGCTGCTGAGATACTCCCTACCTTAGCATCGGAAACCTGCCCGGTGCGGGAA
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 GAGCGAGGTGGAGGGCTCCTTCTGGCTCCCAGCACTCCAGACCCAGCCTCCCCAGCAGCTTCCCACCC
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 CAGGAGCAACACAGAACAGTGGAAACTCCACAGAGACCATGGAGTCCAGCAGCGAGTCTGTCAGTCA



CTGGAGCAGCTGGATCTGCTCTTTGAGAAGGAGCAGGGAGTGGTCCGAAAGCCGGTGGCTCTTCTTCA
AACCCCTTGTACCTTGCAGAAGGAGAGAACTGGAGCTGGTGGCTCGGAGGAAGTGGAAACAATACTG
GGTGACCTGAAAGGCTGTACTCTGCTGTTTTATGAGACCTATGGAAAGAATTCCACAGAGCAGAATAGT
GCCCCACGGTGTGCCCTCTTTCAGAGGACAGCATCGTGCAGTCTGTCCCAGAGCATCCCAAGAAGGAAC
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TGGCAGAGTTGCAGTGTCTGTGGTGGCGACCCCAAGAACAGGAAGGCCATCGAGAATCAGATCCGGCA
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CTCCGAAAGTCACTCAGGAGCTGTAGACACAGAGAAGTCTTACGTGAAGGATCTGAGCTGCCTCTTTG
AACTATACTTGGAGCCACTTCAGAATGAGACCTTTCTTACCCAAGATGAGATGGAGTCACTTTTTGGGAG
CCTGCCAGAGATGCTGGAGTTTCAAAGGTGTTCTGGAGACGTTGGAGGATGCGATCTCCGCTTCTCTCG
GACTTTAGTGTCTGAAACCCCTCACAGTTTCGAAAATGCTGTTCTCCCTTGGAGGTTCTTCTCTCT
ACTATGCCGATCACTTTAAGCTATACAGTGGGTTCTGTGCAACCACATTAAGTACAGAGGGTTCTAGA
GCGAGCTAAAACGGACAAGGCCTTCAAGGCTTTTCTGGATGCCCGAAATCCCAACAGCAGCACTCTCC
ACGCTGGAGTCTATCTCATCAAGCCTGTTTCAGAGAGTGTCAAGTATCCTCTGCTTCTCAAGGAGCTAG
TGTCACTGACTGACCATGAGAGTGAAGAACAATCACCTGACAGAAGCACTAAAGGCCATGGAAAAAGT
CGCCAGTACATCAATGAGATGCAGAAGATCTACGAGGATTACGGGATGGTGTGTTGACCAGCTGGTGGCA
GAGCAGAGTGGCAGAGAAAGGAGTGCAGAGCTGTCCATGGGGAACTTCTGATGCACTCTACAGTTT
CCTGGTTGAATCCGTTCTGTCTTAGGAAAAGCCAGGAAGGACATTGAGCTCACAGTATTTGTTTTAA
GAGAGTGTCACTGGTTTATAAAGAAAAGTCAAGCTGAAAAAGAACTGCCCTCGAATTCGGGCTT
GCTCACAACCTGCTGACTTGGATCCATTTAAATTCGCTGGTTGATTCCCATATCTGCGCTTCAAGTTA
GACTGGGGAACACGGCAGGGACTGAAAATAATTCACGTGGGAGCTGATTATACCAAGTCGAAAATTGA
AGGACGGCCAGAAACCATCTTTCAACTGTGCTGCAGTGCAGCGAGAACAACCAAGCATTGTTAAGGTG
ATTCGTTCTATTCTGAGAGAGAATTCGGCGCCACATAAAGTGTGAGCTGCCACTGGAGAAGACGTGTA
AGGACCGGCTAGTACCTTTAAGAACCAGTTCCTGTTTCAGCCAAATAGCCTCGTCCAGGTGTTGAA
GGGCTCAGAACATCCTCCAGCAGCGAGTGGCCAGCGAGCCAGCAAGGGCAACTCACTGGACTCAGAT
GAGTGCAGCTGAGCAGTGGCACCCAGAGTACGGCTGCCCGTAGCCGAGAGCAGGCGAGACTCTAAGA
GCACCGAGCTGGAGAAAGACGCTCAGGAGGGCCTGGCGGAGTTTCCAGATGGTCTTATCAAGAAAGCGA
CATTCTGAGTGTGAAGATGAGGACTTCCACCACCTCTGAAACAGGGTAGCCCTACTAAGGACATTGAG
ATTCAGTTCAGAGACTGAAAATCTCTGAGGAATCCGACGTGCACCCAGTTGGGCAGCAGCCTCTCACAG
AGTCAGGTGAACAGCCAAAGCTGGTCAGGGGCCATTTTGGCCCATTAACCGAAAGCAACAGCACCA
GAGGGGCAGAGGAATTTGCTCAAGGCGCAGACTCGTACCAGTCCCTGGACAGCCACCCAGAACTGCC
AGCATTGATCTAAACTTGGTCTGGAGAGAGAATTCAGTGTCCAGAGCTTAACTTCACTGCTCAATGAGG

AGGGTTTTTATGAAACACAGAGCCATGGCAAATCATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_011878
Insert Size:	5148 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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
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:	NM_011878.2 , NP_036008.2
RefSeq Size:	6128 bp
RefSeq ORF:	5148 bp
Locus ID:	24001
UniProt ID:	Q6ZPF3
Cytogenetics:	17 1.99 cM

Gene Summary:

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]

Transcript Variant: This variant (1) and variant 2 encode the same isoform (1).