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Product datasheet for MC228288

Tiam2 (NM_001286758) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tiam2 (NM_001286758) 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:

>MC228288 representing NM_001286758
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTCACTTTTTGGGAGCCTGCCAGAGATGCTGGAGTTTCAAAAGGTGTTCCTGGAGACGTTGGAGG
ATGCGATCTCCGCTTCCTCGGACTTTAGTGTCCTGGAAACCCCCTCACAGTTTCGAAAATTGCTGTTCTC
CCTTGGAGGTTCTTTCCTCTACTATGCGGATCACTTTAAGCTATACAGTGGGTTCTGTGCCAACCACATT
AAAGTACAGAGGGTTCTAGAGCGAGCTAAAACGGACAAGGCCTTCAAGGCTTTTCTGGATGCCCGAAATC
CCACCAAGCAGCACTCCTCCACGCTGGAGTCCTATCTCATCAAGCCTGTTCAGAGAGTGCTCAAGTATCC
TCTGCTTCTCAAGGAGCTAGTGTCACTGACTGACCATGAGAGTGAAGAACACTATCACCTGACAGAAGCA
CTAAAGGCCATGGAAAAAGTCGCCAGTCACATCAATGAGATGCAGAAGATCTACGAGGATTACGGGATGG
TGTTTGACCAGCTGGTGGCAGAGCAGAGTGGCACAGAGAAGGAAGTGACAGAGCTGTCCATGGGGGAACT
TCTGATGCACTCTACAGTTTCCTGGTTGAATCCGTTCCTGTCTCTAGGAAAAGCCAGGAAGGACATTGAG
CTCACAGTATTTGTTTTTAAGAGAGCTGTCATACTGGTTTATAAAGAAAACTGCAAGCTGAAAAAGAAAC
TGCCCTCGAATTCCCGGCCTGCTCACAACTCTGCTGACTTGGATCCATTTAAATTCCGCTGGTTGATTCC
CATATCTGCGCTTCAAGTTAGACTGGGGAACACGGCAGGGACTGAAAATAATTCCACGTGGGAGCTGATT
CATACCAAGTCGGAAATTGAAGGACGGCCAGAAACCATCTTTCAACTGTGCTGCAGTGACAGCGAGAACA
AAACCAGCATTGTTAAGGTGATTCGTTCTATTCTGAGAGAGAACTTCCGGCGCCACATAAAGTGTGAGCT
GCCACTGGAGAAGACGTGTAAGGACCGGCTAGTACCTCTTAAGAACCGAGTTCCTGTTTCAGCCAAATTA
GCCTCGTCCAGGTCGTTGAAGGGCCTCAGAACATCCTCCAGCAGCGAGTGGCCCAGCGAGCCCAGCAAGG
GCAACTCACTGGACTCAGATGAGTGCAGCCTGAGCAGTGGCACCCAGAGTAGCGGCTGCCCCGTAGCCGA
GAGCAGGCGAGACTCTAAGAGCACCGAGCTGGAGAAAGACGCTCAGGAGGGCCTGGCGGAGTTTCCAGAT
GGTCTTATCAAAGAAAGCGACATTCTGAGTGATGAAGATGAGGACTTCCACCACCCTCTGAAACAGGGTA
GCCCTACTAAGGACATTGAGATTCAGTTCCAGAGACTGAAAATCTCTGAGGAATCCGACGTGCACCCAGT
TGGGCAGCAGCCTCTCACAGAGTCAGGTGAACAGCCCAAGCTGGTCAGGGGCCATTTTTGCCCCATTAAA
CGGAAAGCAAACAGCACCAAGAGGGGCAGAGGAACTTTGCTCAAGGCGCAGACTCGTCACCAGTCCCTGG
ACAGCCACCCAGAAACTGCCAGCATTGATCTAAACTTGGTCCTGGAGAGAGAATTCAGTGTCCAGAGCTT
AACTTCAGTCGTCAATGAGGAGGGTTTTTATGAAACACAGAGCCATGGCAAATCATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001286758

Insert Size: 1668 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:	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_001286758.1, NP_001273687.1
RefSeq Size:	2550 bp
RefSeq ORF:	1668 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 (4) 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 (3) has a shorter N-terminus, compared to isoform 1.