

Product datasheet for **MG201000**

Aif1 (NM_019467) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Aif1 (NM_019467) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Aif1
Synonyms: A1607846; AIF-1; D17H6S50E; G1; Iba1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201000 representing NM_019467
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCAAAGCAGGGATTTGCAGGGAGGAAAAGCTTTTGGACTGCTGAAGGCCACGAGGAAGAGAGGC
TGGAGGGGATCAACAAGCAATTCCTCGATGATCCCAAATACAGCAATGATGAGGATCTGCCGTCCAAACT
TGAAGCCTTCAAGGTGAAATACATGGAGTTTGATCTGAATGGAATGGAGATATCGATATTATGTCCTTG
AAGCGAATGCTGGAGAACTTGGGGTCCCAAGACCCACCTAGAGCTGAAGAGATTAATTAGAGAGGTGT
CCAGTGGCTCCGAGGAGACGTTACGCTACTCTGACTTTCTCAGAATGATGCTGGCAAGAGATCTGCCAT
CTTGAGAATGATTCTGATGATGAGGAGAAAAACAAGAACAAGAGGCCAACTGGTCCCCAGCCAAG
AAAGCTATCTCCGAGCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201000 representing NM_019467
Red=Cloning site Green=Tags(s)

MSQSRDLQGGKAFGLLKAQQEERLEGINKQFLDDPKYSNDEDLPSKLEAFKVKYMEFDLNGNDIDIMSL
KRMLEKLGVPKTHLELKRLIREVSSGSEETFSYSDFLRMMLGKRSAILRMILMYEKNKEHKRPTGPPAK
KAISELP

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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_019467.2, NP_062340.1</u>
RefSeq Size:	875 bp
RefSeq ORF:	444 bp
Locus ID:	11629
UniProt ID:	<u>O70200</u>
Cytogenetics:	17 18.59 cM
Gene Summary:	Actin-binding protein that enhances membrane ruffling and RAC activation. Enhances the actin-bundling activity of LCP1. Binds calcium. Plays a role in RAC signaling and in phagocytosis. May play a role in macrophage activation and function. Promotes the proliferation of vascular smooth muscle cells and of T-lymphocytes. Enhances lymphocyte migration. Plays a role in vascular inflammation.[UniProtKB/Swiss-Prot Function]