

## Product datasheet for MR201000

### Aif1 (NM\_019467) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Aif1 (NM\_019467) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Aif1  
**Synonyms:** A1607846; AIF-1; D17H6S50E; G1; Iba1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201000 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGCCAAAGCAGGGATTTGCAGGGAGGAAAAGCTTTTGGACTGCTGAAGGCCAGCAGGAAGAGAGGC  
 TGGAGGGGATCAACAAGCAATTCCTCGATGATCCCAAATACAGCAATGATGAGGATCTGCCGTCCAAACT  
 TGAAGCCTTCAAGGTGAAATACATGGAGTTTCTGAATGGAATGGAGATATCGATATTATGTCCTTG  
 AAGCGAATGCTGGAGAACTTGGGGTCCCAAGACCCACCTAGAGCTGAAGAGATTAATTAGAGAGGTGT  
 CCAGTGGCTCCGAGGAGACGTTACGCTACTCTGACTTTCTCAGAATGATGCTGGCAAGAGATCTGCCAT  
 CTTGAGAATGATTCTGATGATGAGGAGAAAACAAGAACAAGAGGCCAACTGGTCCCCAGCCAAG  
 AAAGCTATCTCCGAGCTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201000 protein sequence  
 Red=Cloning site Green=Tags(s)

MSQSRDLQGGKAFGLLKAQQEERLEGINKQFLDDPKYSNDEDLPSKLEAFKVKYMEFDLNGNDIDIMSL  
 KRMLEKLGVPKTHLELKRLLIREVSSGSEETFSYSDFLRMLLGKRSAILRMILMYEENKEHKRPTGPPAK  
 KAISELP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_019467

**ORF Size:** 444 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_019467.1](#), [NM\\_019467.2](#), [NP\\_062340.1](#)

**RefSeq Size:** 875 bp

**RefSeq ORF:** 444 bp

**Locus ID:** 11629

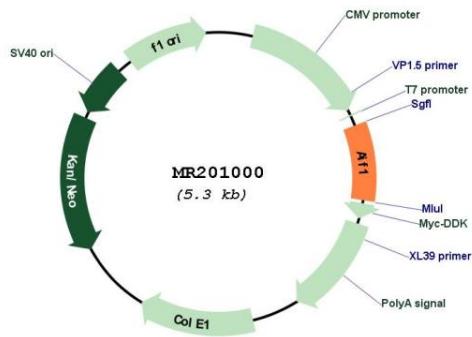
**UniProt ID:** [O70200](#)

**Cytogenetics:** 17 18.59 cM

**MW:** 16.9 kDa

**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]

**Product images:**



Circular map for MR201000