

## Product datasheet for MC206181

### Arhgef18 (BC060639) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Arhgef18 (BC060639) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Arhgef18  
**Synonyms:** AI467246; D030053O22Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >BC060639

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>BC060639
GCGGAGACTGCGAGAGCGACCCGGGAGCCAGCAGGGCGGAGAGCGGCCTGTGAGGGACCCGCGGAGCCT
CCCTGAAGGAGCACCCCTCGGACCACACTTCTGTCTGATGGCAGCAGCCCAGCTCCTTCCAGGAATGTCGG
CATGACCATCTCTCAGAAAGGGGTCTCCAGCCAACACCGAGCCAGCTGGATCTGGGGTGCAGACTTGGA
CCAATTGTCTGGAGACATGGATGAAGCTGACTCCGTGTTTTTAAAGTTGAAGCAGACGGCAGACGACTCTC
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GATCGAATCAGATGCACATGAGTTTGGGCGGAGTCTGGAGCCTCTCTGTGGATTTAGCATATGCCAAG
AAACAGAGAAGGAGGTGGTAAAGAGACAGGACGTCCTATATGAGCTGATGCAGACAGAGGCTCATCAG
TGCGCACACTAAAGATCATGCTGAAAGTATACTCCAGAGCCCTGCAGGAAGAGCTGCAATTCAGTGGCCA
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GGAGGAGACCCCTCTGAGACCCTGCGGGGGGAGCAGATTCTCAGATCGGCATGAGTGAGATTGAGGGCA
TCCAGAGCCTGATCTGCCAGCGCACCTGGGCAGCACCAGTAGCCAAGTGGAGGAGGAAGTGTCTCTGC
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**Locus ID:** 102098

**Cytogenetics:** 8 A1.1

**Gene Summary:** Acts as guanine nucleotide exchange factor (GEF) for RhoA GTPases. May play a role in actin cytoskeleton reorganization in different tissues since its activation induces formation of actin stress fibers. Also acts as a GEF for RAC1, inducing production of reactive oxygen species (ROS). Does not act as a GEF for CDC42. The G protein beta-gamma (Gbetagamma) subunits of heterotrimeric G proteins act as activators, explaining the integrated effects of LPA and other G-protein coupled receptor agonists on actin stress fiber formation, cell shape change and ROS production. Required for EPB41L4B-mediated regulation of the circumferential actomyosin belt in epithelial cells.[UniProtKB/Swiss-Prot Function]