

Product datasheet for **MC203719**

Arhgef1 (NM_008488) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef1 (NM_008488) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arhgef1
Synonyms:	Lbcl2; Lsc
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC012488
 CCGACGCGTGGGCTCTGCGGCACGGGTGGGGAACTGGAGCTCGAGCGCGGAGGCTTCGGTTCCTGAGG
 CTGCAGTGGCTTGCTTCTTCCCATCCGACAGCCCGCGGAGTCTGGAGATGGGAGAAGTCGCCGGAG
 GGGCGGCCAGGGCCTCCCGGTCTGGCTGGTGTCCATCATATCGGGGCGGAGGATGAGGATTTTGA
 GAACGAGCTGGAGGCGAACTCAGAAGATCAAAACAGCCAGTTCAGAGCCTAGAGCAAGTGAAGCGCCG
 CCTGCCACCTCATGGCCCTCTGCAGCATGTGGCCCTGCAGTTCGAGCCAGGACCCTGCTCTGCTGCC
 TGCATGCAGACATGCTGAGCTCTCTGGGCCCAAGAAGCCAAGAAGCCCTTCTGACTCTATCACAG
 TTTCTTGAGAAGACTGCGGTTCTACGGGTGCCGTCCCTCCAGTGTGCGTTTTGAACTTGATCGTACT
 CGACCTGATCTGATCTCTGAGGATGTCCAGAGGCGTTTACACAAGAGGTGGTGCAGAGCCAGCAGGACG
 CCGTGAGCCGTCAGCTAGAGGACTTCCGCTCTAAGCGGCTCATGGGCATGACGCCCTGGGAGCAGGAACT
 GAGCCTGTGGAGCCCTGGATTGGGAAAGACCGAGGCAACTATGAGGCCCGGAGCGGCATGTTGCGGAG
 CGGCTGTGTCCACCTGGAGGAGACCCAGCATACCATCTCTACAGATGAAGAGAAAAGTGTGCTGTGG
 TCACTGCCATCAGCCTGTATATGCGCCACCTTGGAGTCCGGACCAAGAGTGGGACAAGAAGTGGGAAG
 GAACTTCTCCGAAAAAGGTGATGGGGAATCGGAGTCCAGCAACCCCAAGACAAAAGAAAGGGCTG
 AGCAGTATCCTAGATCCTGCACGTTGGAACCGGGAGAGCCATCCGCTCCAGATTGTCGACATCTAAGG
 TCGAGGCTGATGCAGAGAAGCCAGGCCCTGCAGACCGGAAGGGAGGCCTGGGTATGTCTTCTCGGGACAG
 GACTGTTGGGACTCCTGGACAGGACAACCCAGGAGTCTCCTGCACCCTGTGCTACAGACAGCCTCGAC
 TCCCGGAAACAGGCGTGGATACCCCGCAGGAGCCAGGGGATACACCCCAAGGGCCCTACCAGCCTGG
 AGCCCTGGCGCCCCAGAGAGCACAGAGGACAATGGCGAGACTGAGAGCCCTGAGCCCGGAGATGATGG
 GGAGCCAGGACGGTCAAGCCTGGAACCTGGAACCAAGAAGCACTTGGGTGGAGGAACTCGTGCSCCA
 GACACCCTGTCTAGTCTGCCAAGAGCCAAGTGAAGCGCAAGAGGTATCAGCGAGTGTCTGACTG
 AGGCAGTCACTGCGCATGCTACGGGTACTGCTGACCTTTCTACCAGCCATGGCGGATGGAGGCTT
 CTTCCCTCTGGACGAGTGCAGAATCTTCCCGAGCCTGGATGAGCTCATCGAGGTGCACTCCCTGTTT
 CTGCATCGCTTGATGAAGCGGAGACAAGAGAGTGGCTACCTCATTGAGGAGATCGGCGATGTGCTACTGG
 CCCGGTTCGATGGTGTGAGGGCTCATGGTCCAGAAGATCTCCTCCCGCTTCTGCAGCCGCCAGTGGT
 CGCTCTAGAGCAGCTCAAAGCCAAGCAGCGCAAGGAGCCTCGGTTCTGTGCCTTTGTGCAGGAAGCTGAG
 AGCCGCCCGAGATGCCGGCGCCTACAGTTAAAGGACATGATCCCCACTGAGATGCAGCGACTGACCAAGT
 ACCCACTGCTGTACAGAGCATCGGGCAGAACACAGAGGAGTCTACAGAACGAGGGAAAGTGGAGCTTGC
 AGCTGAGTGTGCCGGGAGATTCTGCACCATGTCAATCAAGCCGTCCGTGACATGGAGGACCTGTGCGG
 CTCAAGGATTACCAGCGGCCTGGACTTGACTCACCTACGGCAGAGCAGTGACCCTATGCTGAGCGAGT
 TCAAGAACCTGGACATCACTAAGAAGAAGTTGGTCCATGAAGGCCCTCACGTGGCGAGTGACCAAGA
 CAAAGCTATAGAAGTGCACGTGCTTGTGTTGAGCAGCCTGCTGCTGCTGCCAGCGCCAGGACGAGAGG
 CTGCTGCTCAAGTCCCACAGCCGACGCTGACACCTACCCCGATGGCAAGACCATGCTGCGGCCGGTGC
 TCCGGCTCACCTTGCCATGACCCGAGAGGTGGCCACTGATCACAAAGCTTTCTACGTCAATTTTACCTG
 GGACCAGGAGGCCAGATATATGAGCTGGTGGCACAGACATCTTCGGAACGCAAAAAGTGGTGTAACTC
 ATCACTGAGACTGCTGGATCCCTGAAGTCCCTGCCCTGCCCTCCCGCTCAAACCCCGGCCAGCCAA
 GCAGCATCCGAGAACCCCTGCTCAGCAGCTCTGAGAATGGCACTGGAGGCGCAGAGATGGCTCCAGCTGA
 TGCCAGGACAGAGCGGCTCCTCAATGACCTCCTGCCCTTCTGCAGACCAGGCCAGAGGGCCAGCTTGT
 GCCACAGCCCTCAGAAAGTACTGTCCCTGAAGCAGATCCTGCTAAGCACTGAGGAAGACAGTGGAGCGG
 GGCTCCCGCGATGGGATGGGTGCCTGGTGGTAGGGCCCCCGGCCAGTGCACACCCAGGAGATTGA
 GGAAAAGTCTTGTAGCTTAGAGGTGGCCATCAGACAAGTGGAGGAGTTGGAAAGAGGAATTTTGTGCGCTA
 AGACCCCTCCTGTCCCAGCTTGGGGGACTCTGTCCCCAACCTGGCTGCACCTGAACGCTCTGCTCAGA
 CAGGCCTTTATGAAGAGAAGAGTGGGGGAGAGGATGCAGGGGGGCCACCCCAACCCCAAGCTGCCA
 CAGCATCTCACACCCAGAGGCTGGAGCAGAGGGAGATTGGCTGAACTTGATAGCAGACCTGCTCGGGT
 CCCTGCCTCCCACTCTGGCCTCTGCCTTCTCCCTCCTGCCTTCTGCTTGGGAACTCAGGGCTTCACTC
 CCAGAGCACCCCTTAATCCCACTTTTACGGCCGTCTCAGTATTGCCTATGGGGGGTCAACCTCCTTCC
 CCTACCCCAAGTGCCTTTGCTATGTTTTATATCTGGACTGGAGGTTTATTTTTAATATATATTATCTA
 AGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_008488

Insert Size:	2763 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).
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:	BC012488 , AAH12488
RefSeq Size:	3250 bp
RefSeq ORF:	2763 bp
Locus ID:	16801
UniProt ID:	Q61210
Cytogenetics:	7 A3
Gene Summary:	<p>Seems to play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13) subunits. Acts as GTPase-activating protein (GAP) for GNA12 and GNA13, and as guanine nucleotide exchange factor (GEF) for RhoA GTPase. Activated G alpha 13/GNA13 stimulates the RhoGEF activity through interaction with the RGS-like domain. This GEF activity is inhibited by binding to activated GNA12. Mediates angiotensin-2-induced RhoA activation. Isoform 3 and isoform 4 do not homooligomerize and show an enhanced RhoGEF activity.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (5) lacks two alternate in-frame exons in the mid coding region, compared to variant 1. The resulting isoform (d) is shorter than isoform a.</p>