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Product datasheet for MC224664

Arhgef12 (NM_027144) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef12 (NM_027144) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arhgef12
Synonyms:	2310014B11Rik; AU019857; Larg; mKIAA0382
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC224664 representing NM_027144
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTGGCACACAGTCTACTATCACGGACAGGTTTCCCCTCAAAAAACCTATAAGGCATGGAAGTATTT
TGAACCGAGAGTCACCAACAGATAAGAAACAGAAAGTTGAACGCAGTTCATCGCATGATTTTGACCCCAC
AGATAGCTCCTCCAAGAAGACAAAGTCTAGTTCAGAGGAGAGTAGATCCGAGATCTATGGTCTTGTTCAG
CGCTGTGTGATCATCCAGAAAGACGACAATGGCTTCGGGCTGACAGTCAGTGGAGACAATCCGGTCTTCG
TACAATCTGTCAAAGAAGATGGAGCAGCCATGCGTGCTGGAGTACAAACAGGTGATCGAATCATCAAGGT
GAATGGTACTCTGGTGACTCATTCAAATCATCTGGAGGTGGTGAAACTAATCAGATCTGGTTCCTATGTA
GCTCTCACTGTCCAGGGACGCCCACCTGGGTCGCCCCAGATCCCACTTGCTGATTCTGAAGTAGAGCCAT
CAGTCACTGGACATATGTCTCCCATTATGACATCCCCTCATTCCCCTGGAGCAGCCGGGAATATGGAGAG
AATCACCAGTCCTGTGCTCGTGGGGGAGGAAAACAATGTGGTCCATAACCAGAAAGTAGAGATTCTGAGA
AAGATGTTACAGAAGGAACAGGAACGGCTGCAGTTGCTGCAGGAAGATTACAACCGAACGGCTACCCAAA
GATTGCTCAAGGAGATCCAGGAGGCCAAGAAGCACATCCCGCAGCTGCAGGAGCAGCTGTCCAAAGCCAC
GGGCTCTGCTCAGGACGGAGCTGTAATTGCACCCTCCAGGCCATTAGGTGATGCCCTAACACTCAGTGAG
GCAGAAGCAGATCCTGGAGATGGCCTGTGCAGGACTGACTGGAGCAGTGGAGATGCTTCTCGGCCCAGTA
GTGACAGTGCTGATAGTCCCAAGAGTAGCCTGAGAGAAAGGAGTTACCTGGAGGAAGCCCCAGAGAGAAG
TGAAGGAGTTCAGGACGCTCAGGAGCCGCAGTCGCTGGTCGGCAGTCCCTCCACCCGGGGCGCCCCTCAC
ATCATTGGAGCAGAGGATGATGATTTTGGTACTGAGCATGAGCAGATCAATGGACAGTGCAGCTGTTTCC
AGAGCATTGAATTGCTGAAGTCTCGCCCTGCTCACTTGGCTGTTTTCTTACACCATGTAGTCTCACAGTT
TGACCCTGCAACATTGCTCTGTTATCTCTATTCAGACCTGTATAAGCAGACAAACTCCAAGGAGACTCGG
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GGGCTGACCTTGGCTGAGAGTGAGCTGACTAAACTTGATGCAGAGAGAGACAAGGACCGGGGAACTCTGG

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AGAAGGAGCGAGCATGTGCGGAACAGATCGTTACCAAAATTGAAGAAGTGTTGATGACTGCTCAGGCTGT
AGAAGAAGAAAGGAGTTCCACAATGCAGTATGTAATTCTCATGTATATGAAGTATTTGGGAGTAAAAGTG
AAAGAACCTCGAAACTTGGAGCACAAGCGGGGTCGGATCGGCTTCCTTCCAAAGATCAAGCAAAGCATGA
AGAAAGATAGAGAGGGCGAAGAAAAAGGGAAGCGAAGAGGATTCCCCAGCATTTTGGGACCCCCAAGAAG
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ATGAAGGAACAGACACTGGATACCTGCCCGCCAGTTCCATGTCCTCTGCCACCTCAGGGACTGCTCTTTC
CCAAGAGGGAGGGAGAGAGAATGATACAGGAACAAAACAAGTGGGAGAAGCATCGGCGCCTGGAGACTGC
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CAGCAGCTTGTTAGCAGAGAAGTGTTACTGGGACTGAAACCTTCTGAGATCAAAAGACAGGAAGTGATTA
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CAACTTCATGTTGGGTTGAATGAGCAAATGAAAGCTGTCCGAAAAAGGAATGAAACTTCTGTTATTGATC
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ATTCTGCAGTAACCAACCTTTCGCCCTGGAAATGATCAAGTCTCGCCAGAAAAAGGATTCTCGATTCCAT
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AAATGCAGAGACTCACTAAGTACCCGCTTCTTTTGGATAACATTGCCAAGTACACAGAATGGCCTCCAGA
AAGGGAAAAGGTGAAGAAGGCTGCAGACCATTGTCGTCAGATCTTAAATTATGTAAATCAGGCTGTCAGG
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AGTACCCAAATGTTGACGAGCTCAGGAATTTGGATTTAACAAAAAGAAAGATGATTCATGAAGGGCCGTT
GGTCTGGAAGGTGAATAGAGATAAAAGCATCGATCTTTATACACTGCTGCTGGAAGACATCCTTGTGCTG
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AACACACCTTCAGCCCTGTCATTAAGCTGAGCACGGTGCTGGTTCGGCAGGTGGCGACAGATAACAAAGC
TTTATTCGTCATCTCCATGTCAGATAATGGAGCCCAAATTTATGAATTGGTAGCACAGACGGTTTCTGAA
AAGACAGTCTGGCAAGACCTCATCTGTCGAATGGCTGCGTCAGTGAAGGAGCAGTCTACAAAGCCGATTC
CCCTCCCACAGCCGCCACCTTGCGAAGGAGACAATGATGAAGAAGAACCAGCCAAGTTAAAAGTGGAGCA
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TCAAAGCCTCAGTCTCATTCACTGAATACCCCTGGCAAATCAGCGGCAGAACATCTCTTTGTGACCGCAA
CACAGTTTGCAAAGGAACAGCATGCAAATGGGGCACTCAAGGAAGGTGATGGCGGGTATCCAGTCACAAT
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AAGCAGTTGCTGGTACAGCAGTTAGGTCTCACCGAGAAGAGTACTCAGGAAGACTGGCAGTCCTTCTCAC
GATACGGGCCAGCTTCTGAAGAGGTACAGGCAGACAGTGGCATCCGGGACTTGGAAAATGTTAAGGCTTG
TCATGCCAGGGAAGGACAGATGTCTTTTAAAACTGGAACTGGTGATATTGCAACTTGTGACAGTCCACGG
ACTTCAACTGAGTCTTGTGCTGCACAGGATTCAGTGATACTGGCATCCCAAGACAGCCAGGCAAGTAACG
TTTTAGTAATGGACCACATGATCCTGACCCCAGAGATGCCTCCTGCAGAGCCAGAAGGGGGTCTGGATGA
GAGTGGAGAGCACTTTTTTGATGCCCGTGAAGCACATAGTGATGATAATCCATCAGAAGGTGATGGAGCA
GTTAAAAAGGAAGAGAAGGATGTTAATTTACGCATCTCAGGAAACTGTTTGATCCTTGATGGCTATGATG
CAGTTCAGGAGAGCTCCACAGATGAGGAGGTTGCCTCCTCGTTCCCCCTGCAGCCTGTGACGGGCATCCC
CGCTGTGGACTCCAGCCACCAGCAGCAACATTCCCCTCAGAATGTGCATCCCGAGGGGCCGGTTTCACCA
TTCACCCCAGAATTCCTGGTCCAGCGGCACTGGCGAGCTATGGAGGATACCTGTTTTGAGATCCAGAGTC
CCTCATGTACAGATTCACAAAGCCAAATCCTGGAGTACATTCATAAAATAGAGGCTGACCTGGAACACTT
AAAGAAGGTGGAGGAAAGTTACGCTCTTCTTTGCCAAAGGCTGGCTGGCTCAGCCCTCCCCGACAAGCTC
TCAGATAAAAGTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_027144

Insert Size:	4635 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:	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_027144.2, NP_081420.2
RefSeq Size:	10483 bp
RefSeq ORF:	4635 bp
Locus ID:	69632
Cytogenetics:	9 A5.1
Gene Summary:	May play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13). Acts as guanine nucleotide exchange factor (GEF) for RhoA GTPase and may act as GTPase-activating protein (GAP) for GNA12 and GNA13 (By similarity). [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.