

Product datasheet for **MC221582**

Arhgap10 (NM_030113) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap10 (NM_030113) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arhgap10
Synonyms:	A930033B01Rik; PSGAP-m; PSGAP-s
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221582 representing NM_030113
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCTGCAGCCCTGGAGTTTAGCGACTGCTACCTCGACAGCCCGTGGTTCCGGGAGAGGATCCGCG
 CGCACGAAGCGGAGCTCGAGAGGACCAACAAGTTCATCAAAGAGCTCATCAAAGACGGCAAGAACCCTCAT
 CTCTGCCACAAAAGTCTGTCTAGCTGCCAGAGGAAGTTCGCTCACTCGCTCAGAGACTTCAAGTTCGAG
 TTTATCGGCGATGCTGAGACTGACGATGAACGGTGCATAGATGCCTCCTTACGGGAATTTCTAACTTTT
 TGAAGAATCTGGAAGAACAGAGAGAAATCATGGCATTAAAGTGTGACTGAAACCCTGATTAACCCTTGG
 GAAATTCAGAAAAGAGCAGCTTGGAGCTGTAAAGGAAGAAAAAAGAAGTTTGACAAAGAGACGGAAAAG
 AATTACAGTCTCATCGACAAGCACTTGACGCTGTCTGCCAGGAAGAAGGACTCACACTTGCAGGAGGCCG
 ACCTCAAAGTGGAGCAGAACCAGCAGCATTCTACGAGCTCTCGTTGAATATGTGTGCAAGCTCCAGGA
 AATCCAAGAAAAGAAGAAGTTTCGAGTTTGTGGAGCCTATGCTGTCCTTCTTTTCAGGAATGTTCACTTTC
 TATCATCAAGGCCACGAGCTTCCAAAGACTTCAATCACTACAAGATGGAACACAAATCAACATTCAGA
 ATACACGGAATCGATTTGAGGGAACCAGATCAGAAGTGGAGGAACCTTATGAATAAAATTAGACAAAATCC
 CAAGGACCAGAAGCGAGCCAGCCAGTTCACAGCAGAAGGCTACCTGTACGTCCAGGAGAAAAGGCCCTGCT
 CCATTTGGGTCCAGTTGGGTCAAACACTACTGCATGTACCGGAAAACAGCCAAGAAATTCACATGATTC
 CATTGAGCACAGATCTGGGGGAAACTGGGGGATGGCGAGGCTTTCTTTTTGAAAGAATGCACCAAAAAG
 GCATGGACTCCACGGACAGAAGGTTTTGCTTTGACATCGAAGCTGTGACAGGCTGGCGTCCCTTG
 ACCGTGCAGGCGTTTTTCAGAAGAAGAGAGGAAGCAGTGGTTGGAAGCTCTGGGTGAAAAGAAGCTCTGT
 TCCACAGTTTTAACAGAGCCATTGTCCCGAGACCAGGAGGTGCACAGCTGGATAAGATGGGATTCAC
 AATTTCTAGAAAATGCATCAGCGCCGTTGAAACCCGAGGTATAAATGACCAAGGACTGTACAGAGTTGTG
 GGGGTGAGTTCAAAGTCCAGAGACTTCTGAGTATGTTGATGGATGTAATAATGTGCAATGAGCTGGACC
 TGGAGAATTCTGCAGATTGGGAAGTGAAGACAGTAACAAGTGCCTTGAAGCAGTATCTGAGGAGTCTTCC
 AGAGCCTCTCATGACCTATGAGTTACACAGAGACTTCATTGTTCCAGCCAAGAGCGGCAGCCCGAATCC
 CGAGTTAATGCCATCCACTTCTTGGTACACAAACTGCCAGAGAAGAATAAGGAGATGTTGGATATCTTGG
 TGAAGCATCTAACCAACGTGTCAAGTCACTCGAAGCAGAATCTAATGACAGTGGCGAATTTAGGGGTGGT
 GTTTGGACCAACTCTGATGAGACCACAGGAAGAGACTGTTGCCGCATCATGGATTTGAAGTTTCAGAAT
 ATCGTTGTAGAAATCTTAATTGAAAACCATGAAAAGATTTTTCGAACCTCGCCTGATACCAATTTGCTG
 AGCCACATGCCTGTGAGCATCACCCCAACCGTCCACCACGACAGTCCAAGAGACAAGGGCAGAGGAC
 GAAGAGACCAGTGGCCGTGTACAACCTTTGCTTGTGAGCTGGAGGAGGGTGACAGTCCCAGCCCTCTCAAG
 GAGGACCCCCCAGCAGCAGTCAAGACTCTCTCCACCCCATCTCCACAACGTGAGTGGCCATGGGC
 CTCCTGGACTAGACGAAACCACCTAGCAGCAGACGGAGGGAGCTGTGGAGATGCCACCGCCACCACGCC
 AAGCCAGACCCGGCCATCCATGGTGCAGTGGCTAAATATGCAGTCTCAACCACACCAAGCTCAACCCA
 GCTGGAACACCTCCTTACCCAGAATGTCACCGTTCCTCTCTCTGCTGCCTCCATTGTAGACAAGC
 TGCTGAGTGCATTCAATCGAAAGGCTCGGGCAGTGTACCCGTGTGAAGCAGAACACAGCTCGGAATT
 GTCATTTGAAATAGGAGCCATTTTTGAGGATGTTTCAGACCTCAAGGAACCCGGATGGCTGGAAGGGACC
 CTGAACGGCAAGCGAGGGCTGATTCCACAGAATTATGTCAAGCTCCTGT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_030113
Insert Size: 2361 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:	NM_030113.2 , NP_084389.2
RefSeq Size:	3038 bp
RefSeq ORF:	2361 bp
Locus ID:	78514
UniProt ID:	Q6Y5D8
Cytogenetics:	8 C1
Gene Summary:	GTPase activator for the small GTPases RhoA and Cdc42 by converting them to an inactive GDP-bound state. Essential for PTKB2 regulation of cytoskeletal organization via Rho family GTPases. Inhibits PAK2 proteolytic fragment PAK-2p34 kinase activity and changes its localization from the nucleus to the perinuclear region. Stabilizes PAK-2p34 thereby increasing stimulation of cell death.[UniProtKB/Swiss-Prot Function]