

Product datasheet for **MG216047**

Arhgap10 (NM_030113) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap10 (NM_030113) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arhgap10
Synonyms:	A930033B01Rik; PSGAP-m; PSGAP-s
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG216047 representing NM_030113
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCTGCAGCCCCTGGAGTTTAGCGACTGCTACCTCGACAGCCCGTGGTTCGGGAGAGGATCCGCG
 CGCACGAAGCGGAGCTCGAGAGGACCAACAAGTTCATCAAAGAGCTCATCAAAGACGGCAAGAACCCTCAT
 CTCTGCCACAAAAGTCTGTCTGAGCTGCCAGAGGAAGTTCGCTCACTCGCTCAGAGACTTCAAGTTCGAG
 TTTATCGGCGATGCTGAGACTGACGATGAACGGTGCATAGATGCCTCCTTACGGGAATTTCTAACTTTT
 TGAAGAATCTGGAAGAACAGAGAGAAATCATGGCATTAAAGTGTGACTGAAACCCTGATTAACCCTTGG
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 AATCCAAGAAAGAAGAAGTTTCGAGTTTGTGGAGCCTATGCTGTCCTTTTCAGGGAATGTTCACTTTT
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 ATACACGGAATCGATTTGAGGGAACCAGATCAGAAGTGGAGGAACCTTATGAATAAAATTAGACAAAATCC
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 CCATTTGGGTCCAGTTGGGTCAAACACTACTGCATGTACCGGAAAACAGCCAAGAAATTCACATGATTC
 CATTGAGCACAGATCTGGGGGAAACTGGGGGATGGCGAGGCTTTCTTTTTGAAAGAATGCACCAAAAAG
 GCACATGGACTCCACGGACAGAAGGTTTTGCTTTGACATCGAAGCTGTGACAGGCTGGCGTCCCTTG
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 AATTCTCAGAAAATGCATCAGCGCCGTTGAAACCCGAGGTATAAATGACCAAGGACTGTACAGAGTTGTG
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 AAGCCAGACCCGGCCATCCATGGTGCAGTGGCTAAATATGCAGTCTCAACCACACCAAGCTCAACCCA
 GCTGGAACACCTCCTTACCCAGAATGTCACCGTTCCTCTCTCTCTGCTGCCTCCATTGTAGACAAGC
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 GTCATTTGAAATAGGAGCCATTTTTGAGGATGTTTCAGACCTCAAGGGAACCCGGATGGCTGGAAGGGACC
 CTGAACGCAAGCGAGGGCTGATTCACAGAATTATGTCAAGCTCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216047 representing NM_030113
Red=Cloning site Green=Tags(s)

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MGLQPLEFSDCYLDSPWFRERIRAHEAELERTNKFIKELIKDGKNLISATKSLSAAQRKFAHSLRDFKFE
FIGDAETDDERCIDASLREFSNFLKNLEEQREIMALSVTETLIKPLEKFRKEQLGAVKEEKKFKETEK
NYSLIDKHLTL SARKKDSLHLQEADLQVEQNRQHFYELSLEYVCKLQEIQRKKFEFVEPMLSFFQGMFTF
YHQGHLSKDFNHYKMELQINIQNTRNRFEGTRSEVEELMNKIRQNPKDQKRASQF TAEGYLYVQEKRPA
PFGSSWVKHYCMYRKTAKKFNMIPIFEHRSGGKLDGGEAFFLKECTKRHMDSTDRRFCDIEAADRPGVPL
TVQAFSEEERKQWLEALGGKEALFHTFNRAIVPRPEGGAQLDKMGFTILRKCISAVETRGINQGLYRVV
GVSSKVQRLLSMLMDVKMCNELDLENSADWEVKTVTSALKQYLRLSPEPLMTYELHRDFIVPAKSGSPES
RVNAIHFLVHKLPEKNKEMLDILVKHLTNVSSHQNLMTVANLGVVFGPTLMRPQEETVAAIMDLKFNQ
IVVEIL IENHEKIFRTSPDTTFAEPTCL SASPPNAPPRQSKRQGQRTKRPVAVYNLCLEEEGDSPLK
EDPPSSSQDSLSTPSPTTAAHGPPGLDGNHLAADGGSCGDATATPSQTRPSMVQWLNMQSPTTSSNP
AGTPPSPRMSPFPLSPAASIVDKLPECVINRKARAVYPCAEHSSSELSFEIGAIFEDVQTSREPGWLEGT
LNGKRLIPQNYVKLL
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030113

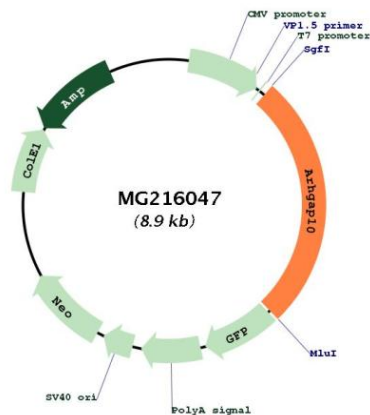
ORF Size: 2358 bp

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:	<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:	<u>NM_030113.2</u> , <u>NP_084389.2</u>
RefSeq Size:	3038 bp
RefSeq ORF:	2361 bp
Locus ID:	78514
UniProt ID:	<u>Q6Y5D8</u>
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]

Product images:



Circular map for MG216047