

Product datasheet for **MG222487**

Arhgap36 (NM_001081123) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap36 (NM_001081123) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arhgap36
Synonyms:	1100001E04Rik; rho-gap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222487 representing NM_001081123
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTGGATGCTGGACTGCCTATTTCGATCGGCCCTTTGAGCCCGCCCCCGCGTGTGAGCGTCTGG
 GAGGAGCCCCAGGACAGAAGCTCAGACCGCAGCATGGACATGGTATCCATTACAGCCTCTCTGAGCTGGA
 GCGCCTGAAGCTGCAAGAGACTGCTTACCACGAAGCTCGTGGCCAGACATTTCTCTCTGAATTCAGCCG
 GACAGAGCTCTACCCACTGACCGTCCAACACCCTGGAGAAGTGGTTTTTATGCTGAGAGGACAAGACA
 GGGCTGCATCACTCAAGACCTTTGGCATCCGCCTGGAAGAGGACTGGTGAACGAGCTTACCCGTCGCAA
 GCAGCGTGAAGTACACCCACGATGCAGGTTGAAGATATCAACGGTCTACTGGTCGTCGTCGCGGGGA
 AACGTGGTCAAAGAATGCTTGGACGCATGAGGCGCTTTTCAGTCGAGGAGGAATGAGCCACCCTGC
 CTAGAGAGTTCACTCGCCGTGGACGTCGAGGTGCAGTTTCTGCAGATAGCGCAGATGAAGTGGAGAACGG
 AGCCCTGCTGCTGAGATCCTGCAGCTCTCCAGCTTTCATCGCCTATTGGACAGCGGCTCTGGGATCC
 AAGAGGAAGATGAGCCTCAACCAATTGCTCAACAAATCCCTCAGATTGTTGAGACTTGTGCAAAATTC
 TTGAGAAACATGGCTTAAGCTCAGTGGGATTTTACCATTGAATACTCTCTGCGGAGGGTCTTGAGCT
 CCGTGAGTATTTGACAAAGGCCTGGATATTGACTGGATGACAGTGTGAATGTCATGATGTGGCTGAG
 CTCCTCAAGGAGTTTTTTCGTGAGATGAAGACCCTCTGCTGCCTGATGATCTGTACATGTCCTTCTCC
 TGACTGCAACTCTGAAGCCCAAGGATCAGGTTTCTGCCCTGCAGCTTCTGGTTTATCTGATGCCACCTTG
 CCACAGTGATACTCTCGAACGCTGTGTAAGGCTCTGCATAAAATCACTGAGAAGTGTGAAGACTCCATT
 GCGGTTGATGGACAGCTGGTCCAGTAACCGAATGACTCCACCAACTGGCTTTGGTGTGGAACTG
 CTCTCCTGAAGAAGGGGAAGTTGGCCAAACAGGAATCCAGGAAGACTAAACTGGGATTGATCAATGAT
 TGCATCTGCAATGTTGTCCTGCCATGATTGATAACTGGGACATCCTCTTCCAGGTGCCCCCATATT
 CAGAAGGAGGTTGCTAAGCGTGTGTAAGTCCAGCCCTGAAGCCTGGATTTTATCAGACGCCGAATC
 TGAGGAAGATCCAGAGTCTCGCATAAAGATGGAAGAGGATGCTTTACTTTCTGATCCAGTGAAAACTC
 TGCTGAAGCCAGGCTGCTATCCTTGTCTCAGAGCCAGCCCTTTGATGAAGACCCGAAGGAGCCCGAT
 GTGCACGAGGCTTGAATGATAACCTGAAGTATGACTTTGAAGACGAATCGGATTTTGAAGACCAGGACC
 ATCTGGATCTTGCAGAGGTTCCCTATCTTGTGTAATTCCAAACAACGAAGATACCGACTCAGACGCTGA
 TGTAATCCAGGTCCTCTGAGGAGCCTGCTGTGCCTGCCAGCACTGCTGGTCCCTGACAAAGAGGAA
 GGAGCAGCGGTAAACCCCAACGCAGACCGCCACTGCCCGTGTGCCAGGGAAGAAGGGCAAT
 TTGCCACCCGCTTCTTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222487 representing NM_001081123
 Red=Cloning site Green=Tags(s)

MAWMLDCLFASAFEP RPRVSVLGGAPGQNSDRSMDMVSIIHSLSELERLKLQETAYHELVARHFLSEFKP
 DRALPTDRPNTLEKWFMLRGQDRAASLKTFGIRLEEVLVNELTRRQRELTPTMQVEDINGSTGRRRRG
 NVVQRMLGRMRRFFSRRRNEPTLPREFTRRGRGAVSADSADLENGALLQILQLSQLSSPIGQRLLGS
 KRKMSLNPIAQQIPQIVETCCKFIEKHGLSSVGIFTIEYSLRRVLELRELFDKGLDIVLDDSVNVHDVAE
 LLKEFFREM KDP LLPDDLYMSFLLTATLKPQDVSALQLLVYLMPPCHSDTLERLLKALHKITENCEDSI
 GVDGQLVPGNRMTSTNLALVFGTALLKKGKLANKESRKTKLGIDHYVASVNVVVRAMIDNWDILFQVPPHI
 QKEVAKRVWKSSPEALDFIRRRNLRKIQSARIKMEEDALLSDPVENSAEAQAAILAQSQPFDEDEPAGPD
 VHEVLNDNLNYDFEDESDFEDQDHLDLAEVYPYLDVIPNNEDTDSADVIPGPSEEP AVPASTAGSPDKKE
 GAAGNPPNADRPLPRVPQGGKGFATRFFP

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	NM_001081123.2
RefSeq Size:	3039 bp
RefSeq ORF:	1773 bp
Locus ID:	75404
UniProt ID:	B1AUC7
Cytogenetics:	X A5
Gene Summary:	GTPase activator for the Rho-type GTPases by converting them to an inactive GDP-bound state.[UniProtKB/Swiss-Prot Function]