

Product datasheet for **MG216999**

Arhgap28 (NM_172964) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap28 (NM_172964) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arhgap28
Synonyms:	AU044757; AW550892; E130310N06
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG216999 representing NM_172964
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGTGGAGGACTCGGGCGCGTGGTGTGACCCGCTACCACTCGCACGCGCGCTCGCAACCCGAGG
 GCGCTGAGCCACGCTGCGCGTCCCGGGCCAGCCATCCGCTCAGCAGAAAAATCCATTCTCGCTGCCGACG
 AATCAACAGGATGCTCTCCAATGAATCCCTGCATCCTCCCTCCTTTAGTCGCTCCAATCTCAAGCCTCA
 GTAGACAGCAGCGCATCCATGGAGGAGTTCCTGCGGAAATTGAGAGTATCAAAGAGAGCAGCGTGGGGG
 CGTCGCAGGAGCAGCCACCCACTGCTGCTGCTGCTGCTGAAGTCAAGCCAGTGGATGAAGGAGAGCT
 TGAAGCGGAGTGGCTACAAGATGTGGGATTGTCAACTCTGATCTGGCAACGAAGAGGAAGACGGTAAA
 GCGCTCTGTCTACATTGACTCGGACCCAAGCTGCTGCAGTAAAAAGAGATAACAACACATACTCAGA
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 TAGTGATTCTTGTGAGCATGCTACTCAGTTGGACGGTACCAAGGAAGAAAAAGATCTGCCAGGAGTTACC
 AAGACAAGCAGACCTCTGCCAGACGATGCTTCTCTCAGTGTACCACTTCCATGGCCCGCCAGGATG
 AAGAAGGTGGTTTTGTGGCCCTACAGAGTGGTTCTGTGTCAATACTTGAGGCTATCCCGGATATTGCTGT
 TCACACCAATGGATCTGCAGATGCTGAGCAGTCGGTTCAGAGCACATTGAGTGTGATGATTATCACGGG
 AAGAAGTTCAGCAGAGGCTGAAGAGCTGTCTTTGAGGTCTTACTCAGAAATGGTGACAGAAATGC
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 TCTCTGATTGAGCTGACAGCCTTCTTCGATGCTTTTGGGATACTGAAGAGAAAACAAAACCGAGCGGAG
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 CTGCTGGCCAACACGGCGACCCACATCATCCGCTGATGCTGAAGTACCAGAAGATTCTGTGGAAGGTTT
 CATCTTTCTTGATCACCCAGGTCAGAAGGATGAATGAGGCCACCATGCTGTTGAAGAAGCAGCTCCCGAG
 TATGAAGAAGCTGCTCAGGAGGAAGACCCTGGATCGAGAGGTTTCAATCCTCAAGACCTCAAGGTACCA
 CAAAAATCACCTTCTCAAGAAGAATGTCTGATGTGCCAGAAGGTGTATAAGGGTCCACGCTCCACTTC
 TGTCCAAAGTGTCCATGGCCATTGAGCTCAACAGTCAAGCAAGGCAAGGATATCCTGGCGAAATTTCA
 GTATGAGAACAGTCATGGTTTCTGAACATATTAAGATGCAGAACCAAGGTTATATGAAGTTGGAGGA
 AATATAGGACAACACTGTTTAGATCCTGATGCATATATATTGGATGTGTATCATATAAATCCTCATGCAG
 AATGGGTCATCAAGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216999 representing NM_172964
Red=Cloning site Green=Tags(s)

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MEVEDSGGVVLTAYHSHARSQPQGAEPRCASRASHPLSRKSIIPRCRRINRMLSNESLHPPSF SRSNSQAS
VDSSASMEEFLEIESIKESSV GASQEQPPTAAAAAAEVKPVDEGELEAEWLQDVLSTLISGNEEEDGK
ALLSTL TRTQAAAVKKRYNTYTQTLRKKNKQPVRDVRDIFGVSESPSDSCEHATQLDGTKEEKDLPGV
KTSRPLPDDASLSTT L SNGAQDEEGGFVALQSGSVSILEAIPDIAVHTNGSADAEQSVQSTLSDDDYHG
KNVPAEAEELSFEVSYSEMVTMPDRNKWKKSDIKKEDYVLTKFIIQKTRFGLTETGDL SVEDMKKIRHL
SLIELTAFDFAGIQLKRNKTERVGRDNGIFGVPLTVLLDNRKDPVAVKVPVLVQKFFQKVEESGLES
EGIFRLSGCTAKVKQYREELDARFNADKFKWDMCHREAAVMLKAFFRELPTSLFPVEYIPAFISLMERG
PDIKVVQFQALHLMVMALPDANRDTAQALMAFFNKVIANESKNRMNLWNISTVMAPNLFFSRSKHSDCEEL
LLANTATHIIRLMLKYQKILWKVPSFLITQVRRMNEATMLLKKQLPSMKLLRRKTL DREVSILKTSKVP
QKSPSSRRMSDVPEGVIRVHAPLLSKVSMAIQLNSQTKAKDILAKFQYENSHGSSEHIKMQNQRLYEVGG
NIGQHCLDPDAYILDVYHINPHA EWVVKP
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172964

ORF Size: 2187 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:

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_172964.4](#), [NP_766552.3](#)

RefSeq Size: 5317 bp

RefSeq ORF: 2190 bp

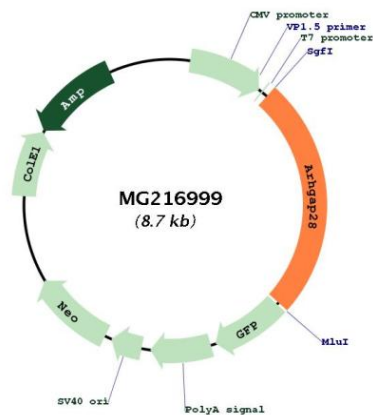
Locus ID: 268970

UniProt ID: [Q8BN58](#)

Cytogenetics: 17 E1.1-E1.2

Gene Summary: GTPase activator for the Rho-type GTPases by converting them to an inactive GDP-bound state.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216999