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Product datasheet for MR216999

Arhgap28 (NM_172964) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap28 (NM_172964) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arhgap28
Synonyms:	AU044757; AW550892; E130310N06
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR216999 representing NM_172964
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGTGGAGGACTCGGGCGGCGTGGTGCTGACCGCCTACCACTCGCACGCGCGCTCGCAACCGCAGG
GCGCTGAGCCACGCTGCGCGTCCCGGGCCAGCCATCCGCTCAGCAGAAAATCCATTCCTCGCTGCCGACG
AATCAACAGGATGCTCTCCAATGAATCCCTGCATCCTCCCTCCTTTAGTCGCTCCAACTCTCAAGCCTCA
GTAGACAGCAGCGCATCCATGGAGGAGTTCCTGCGGGAAATTGAGAGTATCAAAGAGAGCAGCGTGGGGG
CGTCGCAGGAGCAGCCACCCACTGCTGCTGCTGCTGCTGCTGAAGTCAAGCCAGTGGATGAAGGAGAGCT
TGAAGCGGAGTGGCTACAAGATGTGGGATTGTCAACTCTGATCTCTGGCAACGAAGAGGAAGACGGTAAA
GCGCTCCTGTCTACATTGACTCGGACCCAAGCTGCTGCAGTGAAAAAGAGATACAACACATATACTCAGA
CTCTGAGGAAAAAGAATAAACAACCCGTCAGGGATGTCAGAGACATCTTCGGAGTCAGCGAATCTCCTCC
TAGTGATTCTTGTGAGCATGCTACTCAGTTGGACGGTACCAAGGAAGAAAAAGATCTGCCAGGAGTTACC
AAGACAAGCAGACCTCTGCCAGACGATGCTTCTCTCAGTAGTACCACCCTATCCAATGGCGCCCAGGATG
AAGAAGGTGGTTTTGTGGCCCTACAGAGTGGTTCTGTGTCAATACTTGAGGCTATCCCGGATATTGCTGT
TCACACCAATGGATCTGCAGATGCTGAGCAGTCGGTTCAGAGCACATTGAGTGATGATGATTATCACGGG
AAGAACGTTCCAGCAGAGGCTGAAGAGCTGTCCTTTGAGGTCTCTTACTCAGAAATGGTGACAGAAATGC
CTGATAGAAATAAATGGAAGAAGTCGGACATTAAGAAAGAAGACTATGTCTTAACTAAATTTATCATTCA
GAAAACAAGATTTGGGTTGACCGAGACGGGGGACCTGTCTGTGGAAGACATGAAGAAAATCCGCCACCTC
TCTCTGATTGAGCTGACAGCCTTCTTCGATGCTTTTGGGATACAACTGAAGAGAAACAAAACCGAGCGAG
TGAGAGGCCGAGACAACGGGATTTTCGGAGTGCCACTTACAGTCCTCCTGGACAATGACCGGAAGAAGGA
CCCTGCAGTGAAAGTTCCCCTGGTGTTACAAAAATTTTTTCAGAAAGTCGAGGAATCAGGTCTGGAATCG
GAAGGAATTTTTCGACTCTCGGGATGTACTGCCAAAGTCAAGCAGTACCGCGAAGAACTGGATGCCAGGT
TCAATGCTGACAAGTTCAAGTGGGACAAGATGTGTCACAGAGAAGCTGCGGTCATGTTGAAAGCATTCTT
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CCTGACATCAAAGTGCAGTTTCAAGCCTTGCACCTCATGGTCATGGCCCTGCCTGATGCCAACAGGGACA
CAGCGCAGGCTCTGATGGCATTCTTCAATAAAGTGATCGCCAACGAATCCAAGAACCGCATGAACCTGTG
GAACATTTCCACAGTGATGGCGCCCAACTTGTTCTTCAGCAGAAGCAAGCACTCTGACTGCGAGGAACTG
CTGCTGGCCAACACGGCGACCCACATCATCCGCCTGATGCTGAAGTACCAGAAGATTCTGTGGAAGGTTC
CATCTTTCTTGATCACCCAGGTCAGAAGGATGAATGAGGCCACCATGCTGTTGAAGAAGCAGCTCCCGAG
TATGAAGAAGCTGCTCAGGAGGAAGACCCTGGATCGAGAGGTTTCAATCCTCAAGACCTCAAAGGTACCA
CAAAAATCACCTTCCTCAAGAAGAATGTCTGATGTGCCAGAAGGTGTCATAAGGGTCCACGCTCCACTTC
TGTCCAAAGTGTCCATGGCCATTCAGCTCAACAGTCAGACCAAAGCCAAAGATATCCTGGCGAAATTTCA
GTATGAGAACAGTCATGGTTCATCTGAACATATTAAGATGCAGAACCAAAGGTTATATGAAGTTGGAGGA
AATATAGGACAACACTGTTTAGATCCTGATGCATATATATTGGATGTGTATCATATAAATCCTCATGCAG
AATGGGTCATCAAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216999 representing NM_172964
Red=Cloning site Green=Tags(s)

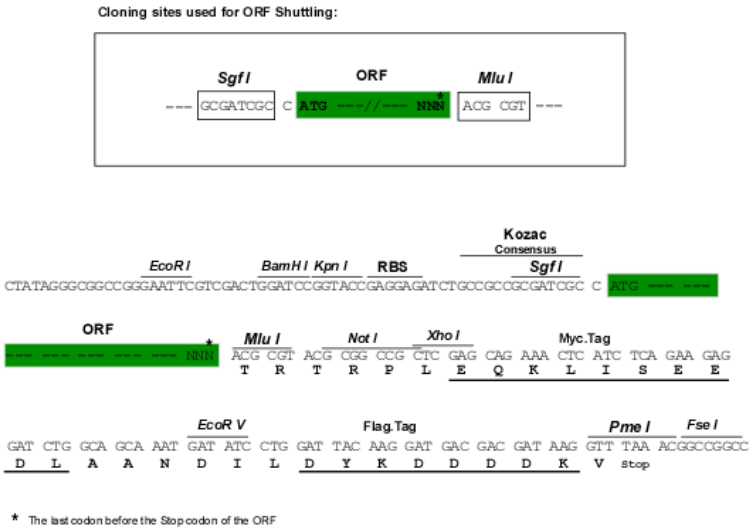
MEVEDSGGVVLTAYHSHARSQPQGAEPRCASRASHPLSRKSIPRCRRINRMLSNESLHPPSFSRSNSQAS
VDSSASMEEFLREIESIKESSVGASQEQPPTAAAAAAEVKPVDEGELEAEWLQDVGLSTLISGNEEEDGK
ALLSTLTRTQAAAVKKRYNTYTQTLRKKNKQPVRDVRDIFGVSESPPSDSCEHATQLDGTKEEKDLPGVT
KTSRPLPDDASLSSTTLSNGAQDEEGGFVALQSGSVSILEAIPDIAVHTNGSADAEQSVQSTLSDDDYHG
KNVPAEAEELSFEVSYSEMVTEMPDRNKWKKSDIKKEDYVLTKFIIQKTRFGLTETGDLSVEDMKKIRHL
SLIELTAFFDAFGIQLKRNKTERVRGRDNGIFGVPLTVLLDNDRKKDPAVKVPLVLQKFFQKVEESGLES
EGIFRLSGCTAKVKQYREELDARFNADKFKWDKMCHREAAVMLKAFFRELPTSLFPVEYIPAFISLMERG
PDIKVQFQALHLMVMALPDANRDTAQALMAFFNKVIANESKNRMNLWNISTVMAPNLFFSRSKHSDCEEL
LLANTATHIIRLMLKYQKILWKVPSFLITQVRRMNEATMLLKKQLPSMKKLLRRKTLDREVSILKTSKVP
QKSPSSRRMSDVPEGVIRVHAPLLSKVSMAIQLNSQTKAKDILAKFQYENSHGSSEHIKMQNQRLYEVGG
NIGQHCLDPDAYILDVYHINPHAEWVIKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9099_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172964

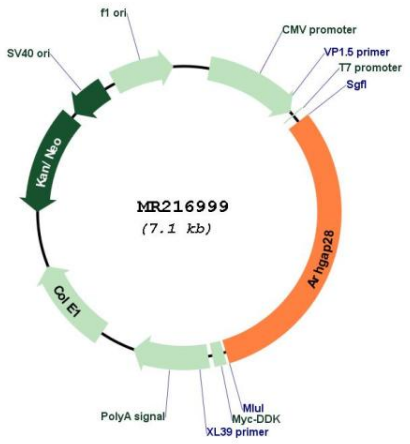
ORF Size: 2187 bp

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
MW:	81.8 kDa
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 MR216999