

## Product datasheet for **RR217143**

### Arhgap28 (NM\_001191815) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap28 (NM_001191815) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arhgap28
Synonyms:	RGD1559882
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR217143 representing NM\_001191815  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGTGGAGGACTCGGGCGCGTGGTGTGACCCGCTACCACTCGCACGCGCGCTCGCAACCCGAGG  
 GCGCGGAGCCACGCTGCGCGTCCCGGGCGGCCATCCGCTCAGCAGAAAAATCCATTCCTCGCTGCCGGAG  
 AATCAACAGGATGCTCTCCAATGAATCCCTCCATCCCCCACCTTTAGTCGCTCCAATCTCAAGCCTCT  
 GTCGACAGCAGCACATCTGTGGAGGAGTTCTGGAAGGAAATCTCGAGTATCAAAGAGAGCAGCATAGGGG  
 GACAGGAGGAGCAGTCGCCACTGCCCCACTGAGGTCAAACCTGTGGATGAAGGAGAATTGAAGCAGA  
 GTGGCTACAAGATGTGGATTGTGACCCTGATCTCCGGTGACGAAGAGGAAGACGGTAAAGCCCTCTG  
 TCCACGTTGACTCGGACACAAGCAGCTGCAGTGAAGAAGAGATACAACACGTACACCCAGACTCTGAGGA  
 AAAAGAACAAGCAAGCCATCAGGGATGTCAGAGACGTCTTTGGAGTCAGCGAATCTCCTCCTAGTGATTC  
 TTGTGAGCAGCTACTCAGTTGGACAGTACCAAGGAAGAGAAGGATCTGCCAGGCGTTACCAAGACAAGC  
 AGACCTCTGCCAGACGATGCTTCTCAATAGTACTACCTATCCAACGGTGCCAGGATGAAGAAGGTG  
 GTTTTGTGGCCCTCCAGAGTGGTTCCGTGTCAATACTTGAGGCTATCCCAGATATCCCCTTCATACCAA  
 TGGATCTGCAGACACTGAGCAGTCGGTTCAGCGTGGGCTGAGTGATGATTATCTAGAGAAGAACATT  
 CCACCAGAGGCTGAAGAGCTATCCTTTGAGGTGTCTTACTCAGAAGTGGTGACAGAGACCCAGACAGAA  
 ATAAATGGAAGAAGTCAGACATTAAGAAAGAAGACTATGTCTTACCTAAATTTATTGTTCCAGAAAACGAG  
 ATTTGGTTGACCGAGACGGGGACCTGTCTGCCGAAGACATGAAGAAAAATCCGCCATCTTCTCTGATT  
 GAGCTGACGGCCTTCTTCGATGCTTTCCGGATACAACCTGAAGAGAACAAAACAGAGAGAGTGAGAGGCC  
 GAGACAACGGGATTTTCGGAGTGCCACTTACAGTCTCCTGGACAATGACCGGAAGAAGGACCTGCCGT  
 GAAAGTTCCCTTGTGTTACAAAAATTTTTTCAGAAAAGTGGAGGAATCAGGTCTGGAATCGGAAGGAATC  
 TTTGACTGTCTGGATGTACTGCCAAAGTCAAGCAGTACCGTGAAGAACTGGATGCCAGGTTCAACACTG  
 ATAAGTTCAAATGGGACAAAATGTGTCACAGAGAAGCCGCGTCAATGTTGAAAGCATTCTTCAGAGAACT  
 GCCCACCTCTCTTCCCATTGAATATATCCCTGCCTTCATCTCTCTGATGGAAGAGGACCTGACATC  
 AAAGTGCAGTTTCAAGCCTTACACCTCATGGTCATGGCCCTGCCTGATGCCAACAGGGACACAGCCAGG  
 CTCTGATGACATCTTCAATAAAGTGATCGCCAATGAATCCAAGAACCGCATGAGCCTGTGGAACATTTT  
 CACGGTATGGCGCCCAACCTGTTCTTCAGCAGAAGCAAGCACTCCGACTGTGAGGAACTGCTGGTGGCC  
 AACACTGCAGCCACATCATCCGCTGATGCTGACGTACCAGAAAATTTGTGGAAGGTCCCATCTTTCT  
 TGATACCCAAGTCAGAAGGATGAATGAAGCCACCATGCTGTTGAAGAAGCAGCTCCAAGTATGAGGAA  
 GCTACTCAGGAGAAAGACCCCTAGAGCGGGAGGTTTCAAACCCCAAGACCTCAAAGGTACCAAAAAATCA  
 CCTTCTCAAGAAGAATGTCTGATGTGCCAGAAGGTGTCATAAGGGTCCACGCTCCACTTCTGTCCAAA  
 GTGCCATGGCCATTGAGCTCAACAGTCAGACCAAGCCAAAGATATCCTGGCGAAGTTTCAAGTATGAGAA  
 CAGCCACGCTTCACTGACCGTATTAAGATGCAGAACCAAGGTTATACGAAGTTGGAGGAAATATAGGA  
 CAACACTGCTTAGACCCTGATGCATATATTTGGATGTGTATCATGTAATCCTCATGCAGAATGGGTCA  
 TCAAGCCC

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR217143 representing NM\_001191815  
Red=Cloning site Green=Tags(s)

```
MEVEDSGGVVLTAYHSHARSQPQGAEPKRCASRAGHPLSRKSIIPRCRRINRMLSNESLHPPTFSRSNSQAS
VDSSTSVVEEFWKEISSIKESSIGGQEEQSPTAPTEVKPVDEGELEAEWLQDVGLSTLISGDEEEDGKALL
STLTRTQAAAVKKRYNTYTQTLRKNKQAIKRDVDFVGVSEPPSDSCEHATQLDSTKEEKDLPGVTKTS
RPLPDDASLNSTTLNNGAQDEEGGFVALQSGSVSILEAIPDIPVHTNGSADTEQSVQRGLSDDDDYLEKNI
PPEAEELSFEVSYSEVVTETPDRNKWKKSDIKKEDYVLPKFIVQKTRFGLTETGDLSAEDMKKIRHLSLI
ELTAFFDAFRIQLKRNKTERVRGRDNGIFGVPLTVLLDNRKKDPAVKVPLVLQKFFQKVEESGLESEGI
FRLSGCTAKVKQYREELDARFNTDKFKWDMCHREAAVMLKAFFRELPTSLFPIEYIPAFISLMERGPDI
KVQFQALHLMVMALPDANRDTAQUALMTFFNKVIANESKNRMSLWNI STVMAPNLFFSRSKHSDCEELLVA
NTAAHIIRLMLTYQKILWKVPSFLITQVRRMNEATMLLKKQLPSMRKLLRRKTLEREVSNPKTSKVPQKS
PSSRRMSDVPEGVIRVHAPLLSKVSMAIQLNSQTKAKDILAKFYENSHASSDRIKMQNQRLEYVGGNIG
QHCLDPDAYILDVYHVNPHEWVVKP
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001191815

**ORF Size:** 2178 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\\_001191815.1](#), [NP\\_001178744.1](#)

**RefSeq Size:** 3559 bp

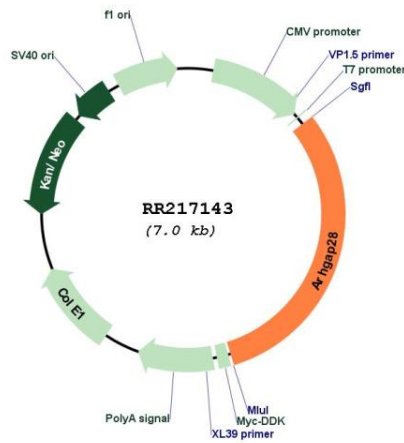
**RefSeq ORF:** 2181 bp

**Locus ID:** 301709

**Cytogenetics:** 9q38

**MW:** 81.9 kDa

**Product images:**



Circular map for RR217143