

## Product datasheet for **RR211156**

### Arhgap22 (NM\_001107297) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap22 (NM_001107297) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arhgap22
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR211156 representing NM\_001107297  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCTGTGCTGCTGCAAGGACTGGAGAGGACACCTGCGAGCGCCAAAGCGGTGCCGAGAGCGGG  
 AGAAGGTGCCAGCAATCCTGAGGCGCTCCTGCTCATGGCCAGCTCCAGCGTGATATGGAGGACTGGGT  
 GCAGGCCATCCGCCGAGTCATCTGGGCCCGCTGGGCGGAGGGATCTTTGGGCAGCGACTGGAGGACACA  
 GTGCACCATGAGCGGAAGTTTGGTCCCCGGCTGGCACCTCTGCTGGTGGAGCAGTGTGTGGACTTCATCC  
 GGGAGCGAGGACTCAGTGAAGAGGGGCTTTCGTATGCCCGGCCAGGCCAACCTGGTGAGGGACCTGCA  
 GGATTCCTTCGACTGTGGGGAGAAGCCGCTGTTTGACAGGTTTCTGGATGAAGTGCAGGCCCACTCAGAC  
 GTCAACAAGATGAGCGTCCAGAACTTGGCAACTGTCTTTGGCCCTAACATCCTCCGGCCACAGTGGAGG  
 ATCCAGTCACCATCATGGAAGGCACATCTTTGGTTCAGCATCTGATGACTGTCTCATCCGAAAACCGG  
 ACAGCTCTTTGCCAGCCCTCCTTTGAAGAACCCTGCTTACCACGTGGTACTGTCCAGGGCACAGTAGAG  
 TGGGGCTCTGAAGAGGTACCAGAGACCACCAGGGCGAGCCTGGGAGCTCTGGCTTGCCACACACAGGA  
 CTTCTCTCTGGATGGGCCAGCTGCAGCAGTGTCTCTAGAACTTCTCCGCCACGCCCTTGGCAGCCAAGC  
 CGGCCCTGCGGCCACCAGCCCTGGGAAGAGGATGCATACTTTGCCTGGCTGGAAGTCTTCTTTTCGGCAG  
 CAGGGGTCCCAGTCCAGAGAGCCAAAGGGGGTCCAGCTCATCTTAGAGGTACCCATCATCTCCTCTGGTG  
 GAACTGGCTCATAAACGGGCTATCGTCTCTTCGAGCCACCGTCCGGCCATCAGGGGACCGGCTTAA  
 GGATACAGGCTCAGCACAGAGACTCTCCACCTATGATAACGTGCCACCATCCAGCCACCTTTCTAGCACT  
 GCCAGCGTGGCCAGCACGGCATGGTCTGTAGCCTCATCTCCGAGAGGCCTCCATCGGCAGCTGCACCTG  
 CCTGCCGGGCCAGCAACTCTTCTGCCTGCAGCTCTTACACACTGAGTGGGCACTCGAGCCCTCTCCTCT  
 CCCCAGCAGCAGTGAAGGCCACCCGTCGCCGACCTGGGCCACAGCTTGGATGAGGCATGTGTGGGCACT  
 GGCAGCAGTGAAGCCAAATGACCCGGCAGTCCCTCACAGGCCATGTTCCGCCGCTGCCGGCTCTCCAGG  
 GCCAGGTGGCCGAGCTCAGGGCGGAGCTGTGTACCAGAGGATTGAGTACCAGAGGAGCCTGAAAAGCAT  
 CGAGGAGGGCAATTCTGACCTGCGGAAGCAGATGTGTGCGTTGGAAGAGGAGCTGGACCAGGAGAAGAAG  
 AAGTATGCCATGCTGGAGATCAAGCTTCGGAACCCGAGCGAGCAGTGAAGACGAGAGCGCAGGAACC  
 AGTTGCTCAGAGGGAGATGGAGGAGTTCTTCGCCACCCTGGGAAGCTTGACTGCTGGGACCAAAGGGGC  
 CAGAGCCCCAGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR211156 representing NM\_001107297  
 Red=Cloning site Green=Tags(s)

MGLCCCKDWRGHLRAPKGGAAEREKVPANPEALLMASSQRDMEDWVQAIIRRVIWAPLGGGIFGQRLEDT  
 VHHERKFGPRLAPLLVEQCVDFIRERGLSEEGLFRMPGQANLVRDLQDSFDCGEKPLFDRFLDEVQAHSD  
 VNKMSVQNLATVFGPNILRPQVEDPVTIMEGTSLVQHLMTVLIRKHGQLFATPSFEEPASPRGTVQGTVE  
 WGSEEVTRDHQGEPEGSSGLPTHRTSSLDGPAAAVL SRTSPRLGSQAGPAATSPGKRMHTLPGWKSSFRQ  
 QGSRSESPKGVSSLEVPIISSGGNWL INGLSSLRSHRRASSGDRLKDTGSAQRLSTYDNVPPSSHL SST  
 ASVASTAWSVASSREASIGSCTACRASNSACSSLHTEWALEPSPLPSSSEGHPSPLDGHSLDEACVGS  
 GSSEPNDPGSPSAHVRCRALQGQVAELRAELCHQRIEYQRLSKSIEEGNSDLRKQMCRL EEELDQEK  
 KYAMLEIKLRNSERAREDAERRNQLLQREMEFFATLGSLLTAGTKGARAPE

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

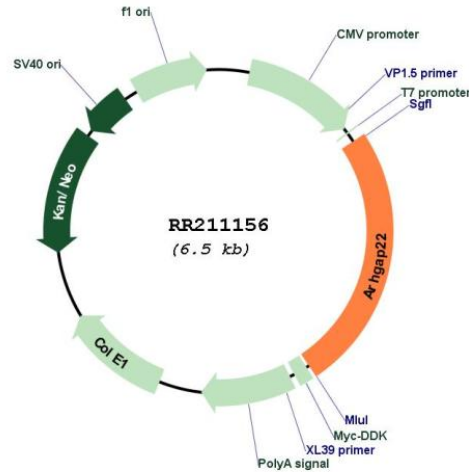
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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

**Plasmid Map:**


**ACCN:** NM\_001107297

**ORF Size:** 1623 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\\_001107297.1](#), [NP\\_001100767.1](#)

**RefSeq Size:** 2086 bp

**RefSeq ORF:** 1626 bp

**Locus ID:** 306279

**Cytogenetics:** 16p16

**MW:** 59 kDa