

## Product datasheet for **RR205717**

### Arhgef12 (NM\_001013246) Rat Tagged ORF Clone

#### Product data:

|                          |                                                                                |
|--------------------------|--------------------------------------------------------------------------------|
| Product Type:            | Expression Plasmids                                                            |
| Product Name:            | Arhgef12 (NM_001013246) Rat Tagged ORF Clone                                   |
| Tag:                     | Myc-DDK                                                                        |
| Symbol:                  | Arhgef12                                                                       |
| Synonyms:                | Larg                                                                           |
| Vector:                  | pCMV6-Entry (PS100001)                                                         |
| E. coli Selection:       | Kanamycin (25 ug/mL)                                                           |
| Cell Selection:          | Neomycin                                                                       |
| ORF Nucleotide Sequence: | >RR205717 representing NM_001013246<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGTGGCACACAGTCTACTATCACGGACAGGTTCCCTCAAAAACCTATAAGGCATGGAAGTATTT  
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AGGAGCGAGCATGTGCGGAACAGATCGTTACCAAAATTGAAGAAGTGTGATGACTGCTCAGGCTGTAGA  
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**Protein Sequence:** >RR205717 representing NM\_001013246  
 Red=Cloning site Green=Tags(s)

```

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AENKQRLLEDYQRRLDTSSLKLEYPNVDELRLDLTKRKMIEHGPLVWKVNRDKSIDLYTLLEDILVLL
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GAVRKEEEDVNVRI SGNCLILDGYDAVQESSTDEEIASFFTLQPVTLGLPSVDSSHQQHSPQNAISEGAI
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KVSDKS
  
```

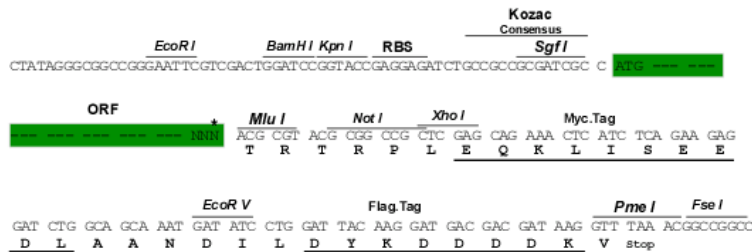
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

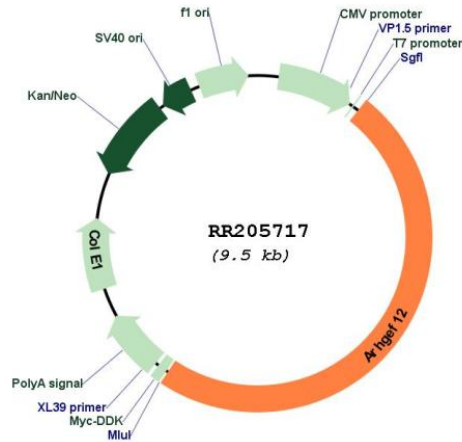
**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

## Plasmid Map:



**ACCN:** NM\_001013246

**ORF Size:** 4638 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\\_001013246.1](#), [NP\\_001013264.1](#)  
RefSeq Size: 4668 bp  
RefSeq ORF: 4641 bp  
Locus ID: 367072  
Cytogenetics: 8q22  
MW: 172.7 kDa