

## Product datasheet for **RR211909**

### **Adcyap1r1 (NM\_133511) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Adcyap1r1 (NM_133511) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adcyap1r1
Synonyms:	PAC1-R; PACAP-R1; PACAP-R1A; PACAPR1; PACAPR1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR211909 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCAGAGTCTCTGAGCTCTCCCTGACTGCTCTCTGCTGCCTGTGGCTATTGCTATGCACTCTGACT  
 GCATCTTCAAGAAGGAGCAAGCCATGTGCTGGAGAGGATCCAGAGGGCCAACGACCTGATGGGACTAAA  
 CGAGTCTTCCCCAGGTTGCCCTGGCATGTGGGACAATATCACATGTTGGAAGCCAGCTCAAGTAGGTGAG  
 ATGGTCTTGTAAAGCTGCCCTGAGGTCTTCCGGATCTTCAACCCGGACCAAGTCTGGATGACAGAAACCA  
 TAGGAGATTCTGGTTTTGCCGATAGTAATTCCTTGGAGATCACAGACATGGGGTCTGGGCCGGAAGTCT  
 CACAGAGGACGGCTGGTCCGAGCCCTTCCCCACTACTTCGATGCTTGTGGTGTGATGATTATGAGCCT  
 GAGTCTGGAGATCAGGATTACTACTGTCCGTGAAGGCTCTACACAGTCCGCTACAGCACTTCCC  
 TCGCCACCCTCACTACTGCCATGGTCATCTTGTCCGCTTCCGGAAGCTGCATTGCACTCGCAACTTCAT  
 CCACATGAACCTGTTGTATCCTTCATGCTGAGGGCTATCTCCGCTTTCATCAAGGACTGGATCTGTAC  
 GCCGAGCAGGACAGCAGTCACTGCTTCGTTCCACCGTGGAGTGCAAAGCTGTATGGTTTTCTTCCACT  
 ACTGCGTGGTGTCCAACACTTCTGGCTGTTTATTGAAGGCTGTACCTCTTACACTGCTGGTGGAGAC  
 CTTCTCCCTGAGAGGAGATATTTCTACTGGTACACCATCATCGCTGGGGACACCTACTGTGTGTGTA  
 ACAGTGTGGGCTGTGCTGAGGCTCTATTTGATGATGCAGGATGCTGGGATATGAATGACAGCACAGCTC  
 TGTGGTGGGTGATCAAAGCCCCGTGGTGGCTCTATAATGGTAACTTTGTGCTTTTATCGGCATCAT  
 CATCATCTTGTACAGAAGCTGCAGTCCCAGACATGGGAGGCAACGAGTCCAGCATCTACTTCAGCTGC  
 GTGCAGAAATGCTACTGCAAGCCACAGCGGGCTCAGCAGCACTTTCGAAGATGCAGAATAATCCACCA  
 TTACTTACGGCTGGCCCGCTCCACCCTACTGCTATCCCACTTTCGGAATCCACTACACAGTATCCCA  
 CTCTCTCCAGAGAACGTACGAAGAGGAAAGACTTGTGTTGAGCTTGGGCTGGCTCCTTCCAGGGC  
 TTTGTGGTGGCTGTACTTACTGCTTCTTGAATGGGAGGTACAGGCAGAGATTAAAGAGAAATGGAGGA  
 GCTGGAAGGTGAACCGTTACTTCACTATGGACTTCAAGCACCGGCACCCGCTCCCTGGCCAGCAGTGGAGT  
 AAATGGGGAAACCCAGCTGTCCATCCTGAGCAAGAGCAGCTCCAGCTCCGCATGTCCAGCTCCCGGCC  
 GACAACTTGGCCACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR211909 protein sequence  
 Red=Cloning site Green=Tags(s)

MARVLQLSLTALLLPVAIAMHSDCIFKKEQAMCLERIQRANDLMGLNESSPGCPGMWDNITCWKPAQVGE  
 MVLVSCPEVFRIFNPDQVWMTETIGDSGFADSNLEITDMGVVGRNCTEDGWSEPFPHYFDACGFDDYEP  
 ESGDQDYIYLSVKALYTVGYSTSLATLTTAMVILCRFRKLHCTRNF IHMNL FVSFMLRAISVFIKWILY  
 AEQDSSHCFVSTVECKAVMVFHYCVVSNYFWLFI EGLYLF TLLVETFFPERRYFYWYTIIGWGTPTVCV  
 TVWAVLRLYFDDAGCWDMDSTALWWWIKGPVVG SIMVNFVLF IGIIIIILVQKLQSPDMGNESSIYFSC  
 VQKCYCKPQRAQQHSCMSELSTITLRLARSTLLL IPLFGIHYTVFAFSPENVSKRERLVFELGLGSFQG  
 FVVAVLYCFLNGEVQAEIKRKWRSWKVNRVFTMDFKHRHPSLASSGVNNGTQLSILSKSSQLRMSLPA  
 DNLAT

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**ACCN:** NM\_133511

**ORF Size:** 1485 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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).

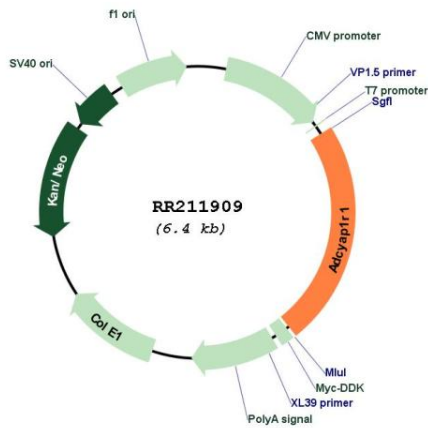
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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\\_133511.2](#), [NP\\_598195.1](#)

RefSeq Size: 6235 bp  
 RefSeq ORF: 1488 bp  
 Locus ID: 24167  
 UniProt ID: [P32215](#)  
 Cytogenetics: 4q24  
 MW: 56.5 kDa

Gene Summary: regulates neural precursor proliferation; mediates inhibitory signaling for Shh-induced cerebellar granule precursor cell proliferation [RGD, Feb 2006]

**Product images:**



Circular map for RR211909