

## Product datasheet for **RR216738**

### Adcyap1r1 (NM\_001270581) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adcyap1r1 (NM_001270581) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adcyap1r1
Synonyms:	PAC1-R; PACAP-R1; PACAP-R1A; PACAPR1; PACAPR1A
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR216738 representing NM\_001270581  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCAGAGTCCTGCAGCTCTCCCTGACTGCTCTCTGCTGCCTGTGGCTATTGCTATGCACTCTGACT  
 GCATCTTCAAGAAGGAGCAAGCCATGTGCCTGGAGAGGATCCAGAGGGCCAACGACCTGATGGGACTAAA  
 CGAGTCTTCCCCAGGTTGCCCTGGCATGTGGGACAATATCACATGTTGGAAGCCAGCTCAAGTAGGTGAG  
 ATGGTCTTGTAAAGCTGCCCTGAGGTCTTCCGGATCTTCAACCCGGACCAAGTCTGGATGACAGAAACCA  
 TAGGAGATTCTGGTTTTGCCGATAGTAATTCCTGGAGATCACAGACATGGGGTCTGGGCCGGAAGTCT  
 CACAGAGGACGGCTGGTCCGAGCCCTTCCCCACTACTTCGATGCTTGTGGGTTTGTGATTATGAGCCT  
 GAGTCTGGAGATCAGGATTACTACTGTCCGTGAAGGCTCTACACAGTCCGCTACAGCACTTCCC  
 TCGCCACCCTCACTACTGCCATGGTCATCTTGTCCGCTTCCGGAAGCTGCATTGCACTCGCAACTTCAT  
 CCACATGAACCTGTTTGTATCCTTCATGCTGAGGGCTATCTCCGCTTTCATCAAGGACTGGATCTGTAC  
 GCCGAGCAGGACAGCAGTCACTGCTTCCGTTCCACCGTGGAGTGCAAAGCTGTATGGTTTTCTTCCACT  
 ACTGCGTGGTGTCCAACACTTCTGGCTGTTTCATTGAAGGCTGTACCTCTTACACTGCTGGTGGAGAC  
 CTTCTTCCCTGAGAGGAGATATTTCTACTGGTACACCATCATCGGCTGGGGGACACCTACTGTGTGTGA  
 ACAGTGTGGGCTGTGCTGAGGCTCTATTTTGTATGATGCAGGATGCTGGGATATGAATGACAGCACAGCTC  
 TGTGGTGGGTGATCAAAGCCCCGTGGTTGGCTCTATAATGGTAACTTTGTGCTTTTCATCGGCATCAT  
 CATCATCTTGTACAGAAGCTGCAGTCCCAGACATGGGAGGCAACGAGTCCAGCATCTACTTACGGCTG  
 GCCCGCTCACCCCTACTGCTCATCCCCTTCCGGAATCCACTACACAGTATTGCGCTTCTCTCCAGAGA  
 ACGTCAGCAAGAGGAAAGACTTGTGTTGAGCTTGGGCTGGGCTCCTTCCAGGGCTTTGTGGTGGCTGT  
 ACTCTACTGCTTCTTGAATGGGAGGTACAGGCAGAGATTAAGAGGAAATGGAGGAGCTGGAAGGTGAAC  
 CGTTACTTCACTATGGACTTCAAGCACCCGACCCGCTCCCTGGCCAGCAGTGGAGTAAATGGGGGAACCC  
 AGCTGTCCATCCTGAGCAAGAGCAGCTCCAGCTCCGATGTCCAGCCTCCCGGCCGACAACCTGGCCAC  
 C

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216738 representing NM\_001270581  
 Red=Cloning site Green=Tags(s)

MARVLQLSLTALLLPVAIAMHSDCIFKKEQAMCLERIQRANDLMGLNESSPGCPGMWDNITCWKPAQVGE  
 MVLVSCPEVFRIFNPDQVWMTETIGDSGFADSNSLEITDMGVVGRNCTEDGWSEPFPHYFDACGFDDYEP  
 ESGDQDYIYLVKALYTVGYSTSLATLTTAMVILCRFRKLHCTRNFIMHNLVVSFMLRAISVFIKWILY  
 AEQDSSHCFVSTVECKAVMVFFHYCVVSNYFWLFIEGLYLFLLVETFFPERRYFYWYTIIGWGTPTVCV  
 TVWAVLRLYFDDAGCWMNDSTALWWVIKGPVVGSIIMVNFVLFIGIIILVQKLQSPDMGNESSIYLRL  
 ARSTLLLIFLFGIHYTVFAFSPENVSKRERLVFELGLGSFQGFVAVLYCFLNGEVQAEIKRKRWSWKVN  
 RYFTMDFKHRHPSLASSGVNGGTQLSILSKSSQLRMSSLPADNLAT

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

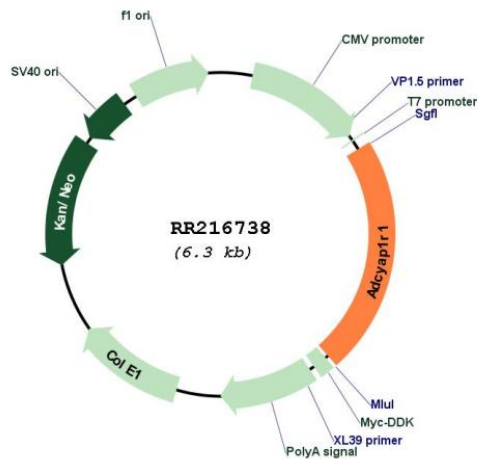
**Restriction Sites:**

SgfI-MluI

## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001270581

ORF Size: 1401 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\\_001270581.1](#), [NP\\_001257510.1](#)

**RefSeq Size:** 6263 bp

**RefSeq ORF:** 1404 bp

**Locus ID:** 24167

**UniProt ID:** [P32215](#)

**Cytogenetics:** 4q24

**MW:** 53.2 kDa

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