

## Product datasheet for **RR216784**

### **Adcyap1r1 (NM\_001270583) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Adcyap1r1 (NM_001270583) 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:**

>RR216784 representing NM\_001270583  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCAGAGTCTCTGAGCTCTCCCTGACTGCTCTCTGCTGCCTGTGGCTATTGCTATGCACTCTGACT  
 GCATCTTCAAGAAGGAGCAAGCCATGTGCCTGGAGAGGATCCAGAGGGCCAACGACCTGATGGGACTAAA  
 CGAGTCTTCCCCAGGTTGCCCTGGCATGTGGGACAATATCACATGTTGGAAGCCAGCTCAAGTAGGTGAG  
 ATGGTCTTGTAAAGCTGCCCTGAGGTCTTCCGGATCTTCAACCCGGACCAAGTCTGGATGACAGAAACCA  
 TAGGAGATTCTGGTTTTGCCGATAGTAATTCCTTGGAGATCACAGACATGGGGTCTGGGCCGGAAGTCT  
 CACAGAGGACGGCTGGTCCGAGCCCTTCCCCACTACTTCGATGCTTGTGGGTTTGTGATTATGAGCCT  
 GAGTCTGGAGATCAGGATTACTACTGTCCGTGAAGGCTCTACACAGTCCGCTACAGCACTTCCC  
 TCGCCACCCTCACTACTGCCATGGTCATCTTGTCCGCTTCCGGAAGCTGCATTGCACTCGCAACTTCAT  
 CCACATGAACCTGTTTGTATCCTTCATGCTGAGGGCTATCTCCGTCTTCATCAAGGACTGGATCTGTAC  
 GCCGAGCAGGACAGCAGTCACTGCTTCGTTCCACCGTGGAGTGCAAAGCTGTATGGTTTTCTTCCACT  
 ACTGCGTGGTGTCCAACACTTCTGGCTGTTTATTGAAGGCTGTACCTCTTACACTGCTGGTGGAGAC  
 CTTCTTCCCTGAGAGGAGATATTTCTACTGGTACACCATCATCGGCTGGGGGACACCTACTGTGTGTGA  
 ACAGTGTGGGCTGTGCTGAGGCTCTATTTTGTATGATGCAGGATGCTGGGATATGAATGACAGCACAGCTC  
 TGTGGTGGGTGATCAAAGGCCCGTGGTGGCTCTATAATGGTAACTTTGTGCTTTTTCATCGGCATCAT  
 CATCATCTTGTACAGAAGCTGCAGTCCCAGACATGGGAGGCAACGAGTCCAGCATCTACTTCTGCGTG  
 CAGAAATGCTACTGCAAGCCACAGCGGGCTCAGCAGCACTTTGCAAGATGTCAGAACTCCACCATTAC  
 CTCTACGGCTGGCCCGCTCCACCCTACTGCTCATCCCCTCTCGGAATCCACTACACAGTATTCGCCTT  
 CTCTCCAGAGAACGTCAGCAAGAGGGAAAGACTTGTGTTGAGCTTGGGCTGGGCTCCTTCCAGGGCTTT  
 GTGGTGGCTGACTCTACTGCTTCTGAATGGGAGGTACAGGCAGAGATTAAGAGGAAATGGAGGAGCT  
 GGAAGGTGAACCGTTACTTCACTATGGACTTCAAGCACCGGCACCCGTCCTGGCCAGCAGTGGAGTAAA  
 TGGGGGAACCCAGCTGTCCATCTGAGCAAGAGCAGCTCCAGCTCCGCATGTCCAGCCTCCCGCCGAC  
 AACTTGGCCACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216784 representing NM\_001270583  
 Red=Cloning site Green=Tags(s)

MARVLQSLTALLLPVAIAMHSDCIFKKEQAMCLERIQRANDLMGLNESSPGCPGMWDNITCWKPAQVGE  
 MVLVSCPEVFRIFNPDQVWMTETIGDSGFADSNSLEITDMGVVGRNCTEDGWSEPFPHYFDACGDDYEP  
 ESGDQDYYL SVKALYTVGYSTSLATLTTAMVILCRFRKLHCTRNF IHMNLVVSFMLRAISVFIKWILY  
 AEQDSSHCFVSTVECKAVMVFFHYCVVSNYFWLFI EGLYLFLLVETFFPERRYFYWYTIIGWGTPTVCV  
 TVWAVLRLYFDDAGCWDMDSTALWWWIKGPVVGSI MVNVLFI GIIIIILVQKLQSPDMGNESSIYFCV  
 QKCYCKPQRAQQHSCKMSELSTITLRLARSTLLLIPLFGIHYTVFAFSPENVSKRERLVFELGLGSFQGF  
 VVAVLYCFLNGEVQAEIKRKWRSWKVNRVFTMDFKHRHPSLASSGVNGGTQLSILSKSSQLRMSLPLAD  
 NLAT

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

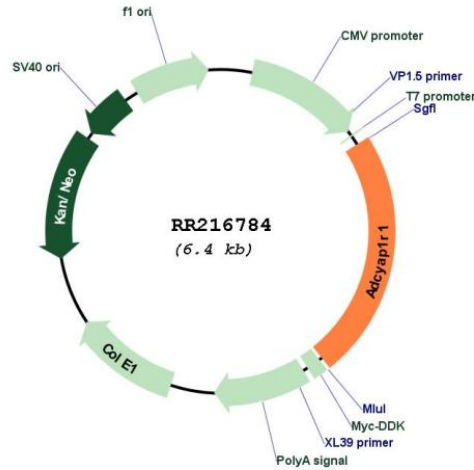
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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

**Plasmid Map:**


**ACCN:** NM\_001270583

**ORF Size:** 1482 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\\_001270583.1](#), [NP\\_001257512.1](#)

**RefSeq Size:** 6232 bp

**RefSeq ORF:** 1485 bp

**Locus ID:** 24167

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

**Cytogenetics:** 4q24

**MW:** 56.4 kDa

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