

Product datasheet for **RR216840**

Adcyap1r1 (NM_001270579) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adcyap1r1 (NM_001270579) 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:

>RR216840 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAGAGTCTCTGAGCTCTCCCTGACTGCTCTCTGCTGCCTGTGGCTATTGCTATGCACTCTGACT
 GCATCTTCAAGAAGGAGCAAGCCATGTGCTGGAGAGGATCCAGAGGGCCAAACGACTGATGGGACTAAA
 CGAGTCTTCCCCAGGTTGCCCTGGCATGTGGGACAATATCACATGTTGGAAGCCAGCTCAAGTAGGTGAG
 ATGGTCTTGTAAAGCTGCCCTGAGGTCTTCCGGATCTTCAACCCGGACCAAGTCTGGATGACAGAAACCA
 TAGGAGATTCTGGTTTTGCCGATAGTAATTCCTTGGAGATCACAGACATGGGGTCTGGGCCGGAAGTCT
 CACAGAGGACGGCTGGTCGGAGCCCTTCCCCACTACTTCGATGCTTGTGGTGTGATGATTATGAGCCT
 GAGTCTGGAGATCAGGATTACTACTGTGCGTGAAGGCTCTACACAGTCCGCTACAGCACTTCCC
 TCGCCACCCTCACTACTGCCATGGTCATCTTGTGCCGCTTCCGGAAGCTGCATTGCACTCGCAACTTCAT
 CCACATGAACCTGTTGTATCCTTCATGCTGAGGGCTATCTCCGCTTTCATCAAGGACTGGATCTGTAC
 GCCGAGCAGGACAGCAGTCACTGCTTCCGTTCCACCGTGGAGTGCAAAGCTGTATGGTTTTCTTCCACT
 ACTGCGTGGTGTCCAACACTTCTGGCTGTTTATTGAAGGCTGTACCTCTTACACTGCTGGTGGAGAC
 CTTCTTCCCTGAGAGGAGATATTTCTACTGGTACACCATCATCGCTGGGGACACCTACTGTGTGTGTA
 ACAGTGTGGGCTGTGCTGAGGCTCTATTTTGTATGATGCAGGATGCTGGGATATGAATGACAGCACAGCTC
 TGTGGTGGGTGATCAAAGGCCCGTGGTGGCTCTATAATGGTAACTTTGTGCTTTTTCATCGGCATCAT
 CATCATCTTGTACAGAAGCTGCAGTCCCAGACATGGGAGGCAACGAGTCCAGCATCTACTTAACAAAT
 TTAAGACTGAGAGTCCCCAAGAAAACCCGAGAGGACCCCTGCCTGTGCCCTCAGACCAGCATTACCC
 CTTTCTCAGCTGCGTGCAGAAATGCTACTGCAAGCCACAGCGGGCTCAGCAGCACTTTGCAAGATGTC
 AGAACTATCCACCATTACTCTACGGCTGGCCCGCTCCACCCTACTGCTCATCCCACTCTTCGGAATCCAC
 TACACAGTATTCGCTTCTCTCCAGAGAAGCTCAGCAAGAGGAAAGACTTGTGTTTGTGCTGGGCTGG
 GCTCCTCCAGGGCTTTGTGGTGGCTGACTCTACTGCTTCTTGAATGGGAGGTACAGGCAGAGATTAA
 GAGGAAATGGAGGAGCTGGAAGGTGAACCGTTACTTCACTATGGACTTCAAGCACCGGCACCCGTCCTG
 GCCAGCAGTGGAGTAAATGGGGAAACCCAGCTGTCCATCCTGAGCAAGAGCAGCTCCAGCTCCGCATGT
 CCAGCCTCCCGCCGACAACCTTGCCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216840 protein sequence
 Red=Cloning site Green=Tags(s)

MARVLQLSLTALLLPVAIAMHSDCIFKKEQAMCLERIQRANDLMGLNESSPGCPGMWDNITCWKPAQVGE
 MVLVSCPEVFRIFNPQVWMTETIGDSGFADSNLEITDMGVVGRNCTEDGWSEPFPHYFDACGFDYEP
 ESGDQDYIYLVKALYTVGYSTSLATLTTAMVILCRFRKLHCTRNFHNMNLFVSFMLRAISVFIKDWILY
 AEQDSSHCFVSTVECKAVMVFHYCVVSNYFWLFIIEGLYFTLLVETFFPERRYFYWYTIIGWGTPTVCV
 TVWAVLRLYFDDAGCWDMDSTALWWWIKGPVVGSIIMVNFVLFIGIILVQKLQSPDMGGNESSIYLTN
 LRLRVPKKTREDPLVPVSDQHSPFLSCVQKCYCKPQRAQQHSCKMSELSTITLRLARSTLLLIPLFGIH
 YTVFAFSPENVSKRERLVFELGLGSFQGFVVAVLYCFLNGEVQAEIKRKWRSWKVNRIFYTMDFKHRHPSL
 ASSGVNGGTQLSILSKSSQLRMSLPLADNLAT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001270579

ORF Size: 1569 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_001270579.1](#), [NP_001257508.1](#)

RefSeq Size: 6319 bp

RefSeq ORF: 1572 bp

Locus ID: 24167

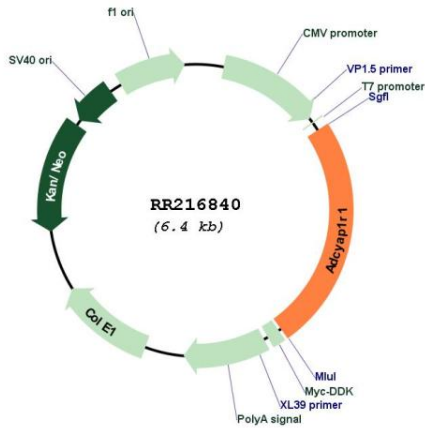
UniProt ID: [P32215](#)

Cytogenetics: 4q24

MW: 59.6 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 RR216840