

Product datasheet for **RN211909**

Adcyap1r1 (NM_133511) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adcyap1r1 (NM_133511) Rat Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >RN211909 representing NM_133511
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAGAGTCTCTGCAGCTCTCCCTGACTGCTCTCTGCTGCCTGTGGCTATTGCTATGCACTCTGACT
 GCATCTTCAAGAAGGAGCAAGCCATGTGCCTGGAGAGGATCCAGAGGGCCAACGACCTGATGGGACTAAA
 CGAGTCTTCCCCAGGTTGCCCTGGCATGTGGGACAATATCACATGTTGGAAGCCAGCTCAAGTAGGTGAG
 ATGGTCTTGTAAAGCTGCCCTGAGGTCTTCCGGATCTTCAACCCGGACCAAGTCTGGATGACAGAAACCA
 TAGGAGATTCTGGTTTTGCCGATAGTAATTCCTTGGAGATCACAGACATGGGGTCTGGGCCGGAAGTCT
 CACAGAGGACGGCTGGTCCGAGCCCTTCCCCACTACTTCGATGCTTGTGGGTTTGTGATTATGAGCCT
 GAGTCTGGAGATCAGGATTACTACTGTCCGTGAAGGCTCTACACAGTCCGCTACAGCACTTCCC
 TCGCCACCCTCACTACTGCCATGGTCATCTTGTCCGCTTCCGGAAGCTGCATTGCACTCGCAACTTCAT
 CCACATGAACCTGTTTGTATCCTTCATGCTGAGGGCTATCTCCGCTTTCATCAAGGACTGGATCTTGTAC
 GCCGAGCAGGACAGCAGTCACTGCTTCCGTTCCACCGTGGAGTGCAAAGCTGTATGGTTTTCTTCCACT
 ACTGCGTGGTGTCCAACACTTCTGGCTGTTTATTGAAGGCTGTACCTCTTTACACTGCTGGTGGAGAC
 CTTCTTCCCTGAGAGGAGATATTTCTACTGGTACACCATCATCGGCTGGGGGACACCTACTGTGTGTGTA
 ACAGTGTGGGCTGTGCTGAGGCTCTATTTTGTATGATGCAGGATGCTGGGATATGAATGACAGCACAGCTC
 TGTGGTGGGTGATCAAAGGCCCGTGGTTGGCTCTATAATGGTTAACTTTGTGCTTTTCATCGGCATCAT
 CATCATCTTGTACAGAAGCTGCAGTCCCAGACATGGGAGGCAACGAGTCCAGCATCTACTTCAGCTGC
 GTGCAGAAATGCTACTGCAAGCCACAGCGGGCTCAGCAGCACTTTCGAAGATGTCAGAACTATCCACCA
 TTAATCTACGGCTGGCCCGCTCCACCCTACTGCTCATCCACTCTTCGGAATCCACTACACAGATTTCGC
 CTTCTCTCCAGAAACGTCAGCAAGAGGAAAGACTTGTGTTTGTAGCTTGGGCTGGGCTCCTTCCAGGGC
 TTTGTGGTGGCTGTACTCTACTGCTTCTTGAATGGGAGGTACAGGCAGAGATTAAGAGGAAATGGAGGA
 GCTGGAAGGTGAACCGTTACTTCACTATGGACTTCAAGCACCGGCACCCGTCCTTGGCCAGCAGTGGAGT
 AAATGGGGGAACCCAGCTGTCCATCCTGAGCAAGAGCAGCTCCCAGCTCCGCATGTCCAGCTCCCGGCC
 GACAACTTGGCCACCTGA

ACGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2280_a11.zip

Restriction Sites: SgfI-MluI

ACCN: NM_133511

Insert Size: 1488 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 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](#)

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

Gene Summary: regulates neural precursor proliferation; mediates inhibitory signaling for Shh-induced cerebellar granule precursor cell proliferation [RGD, Feb 2006]
 Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant (1). The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.
 Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.