

## Product datasheet for **MR219140**

### Adcyap1r1 (NM\_007407) Mouse Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                            |
| Product Name:             | Adcyap1r1 (NM_007407) Mouse Tagged ORF Clone   |
| Tag:                      | Myc-DDK  |
| Symbol:                   | Adcyap1r1                                      |
| Synonyms:                 | 2900024I10Rik; AI846590; PAC1; PAC1R; PACAP1-R |
| Mammalian Cell Selection: | Neomycin                                       |
| Vector:                   | pCMV6-Entry (PS100001)                         |
| E. coli Selection:        | Kanamycin (25 ug/mL)                           |



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**ORF Nucleotide Sequence:**

>MR219140 representing NM\_007407  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCAGAACCCTGCAGCTCTCCCTGACTGCTCTCCTCTGCTGCCTATGGCTATTGCTATGCACTCTG  
 ACTGCATCTTCAAGAAGGAGCAAGCCATGTGCCTGGAGAGGATCCAGAGGGCCAACGACCTGATGGCCT  
 AAATGAGTCTTCCCCAGTTGCCCTGGCATGTGGGACAATATCACATGTTGGAAGCCTGCTCAAATAGGT  
 GAGATGGTCTTGTGAGCTGCCCTGAGGTCTTCCGGATCTTCAACCCGGACCAAGCTGGATGACAGAAA  
 CCATAGGGGATTCTGGCTTTGCTGATAGTAATTCCTGGAGATCACAGACATGGGGTCTGGGCCGAA  
 CTGCACTGAGGATGGCTGGTCCGAGCCCTTCCCCATTACTTCGATGCTTGTGGGTTTGATGACTATGAG  
 CCCGAGTCTGGGATCAGGATTACTACCTGTCGGTGAAGGCCCTCTACACAGTCGGCTACAGCACCT  
 CCCTCGTACCCTCACCCTGCCATGGTATCTTGTGCCGCTCCGGAAGCTGCACTGTACCCGTAACCT  
 CATCCACATGAACCTGTTGTATCCTTCATGCTGAGAGCTATCTCTGTCTTCATCAAAGACTGGATCTTG  
 TATGCCGAGCAGGACAGCAGTCATTGCTTCGTTTCCACCGTGGAATGCAAAGCTGTCATGGTTTTCTTTC  
 ACTACTGCGTGGTGTCCAACTACTTCTGGCTGTTCAATGAAGGCCTATACCTCTTACACTGCTGGTGGGA  
 GACCTTCTCCCTGAGAGGAGATATTTCTACTGGTATACCATATTGGCTGGGGGACACCTACTGTGTGT  
 GTAAGTGTGGGCTGTGCTGAGGCTCTACTTTGATGATGCGGGATGCTGGGATATGAATGACAGCACAG  
 CTCTGTGGTGGGTGATCAAAGGCCCTGTAGTTGGCTCTATAATGGTTAACTTTGTCTTTTCATCGGCAT  
 CATCATCATCCTGTGCAGAAGTGCAGTCCCCAGACATGGGAGGCAATGAGTCGAGCATCTACTTCAGC  
 TCGGTGCAGAAATGCTACTGCAAGCCACAGCGGGCTCAGCAGCACTCTTGAAGATGTCAGAAGTATCCA  
 CCATTACTACGGCTGGCCCGCTCCACCTGCTGCTCATCCCACTCTTGAATCCACTACACAGTATT  
 TGCTTTCTCTCCAGAGAAGTCAAGCAAGAGGAAAGACTTGTGTTGAGCTTGGGCTGGGCTCCTTCCAG  
 GGCTTTGTGGTGGCTGTACTCTACTGCTTCTGAATGGGAGGTACAGGCAGAGATTAAGAGGAAATGGA  
 GGAGCTGGAAGGTGAACCGTTACTTCACTATGGACTTCAAGCACCGGCATCCATCCCTGGCCAGCAGTGG  
 AGTGAACGGGGCACCCAGCTGTCCATCCTGAGCAAGAGCAGCTCCAGCTCCGCATGTCCAGCCTCCCG  
 GCCGACAACCTGGCCACC

**ACCGGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR219140 representing NM\_007407  
 Red=Cloning site Green=Tags(s)

MARTLQLSLTALLLLPMAIAMHSDCIFKKEQAMCLERIQRANDLMGLNESSPGCPGMWDNITCWKPAQIG  
 EMVLVSCPEVFRIFNPDQVMMTETIGDSGFADSNLEITDMGVVGRNCTEDGWSEPFPHYFDACGFDDYE  
 PESGDQDYLLSVKALYTVGYSTSLVTLTTAMVILCRFRKLHCTRNF IHMNLVFSFMLRAISVFIKDWIL  
 YAEQDSSHCFVSTVECKAVMVFFHYCVVSNYFWLFI EGLYLFLLVETFFPERRYFYWYTIIGWGTPVC  
 VTVWAVLRLYFDDAGCWDMDSTALWWWIKGPVVG SIMVNFVLF IGIIILVQKLQSPDMGGNESSIYFS  
 CVQKCYCKPQRAQQHSCKMSELSTITLRLARSTLLLIPLFGIHYTVFAFSPENVSKRERLVFELGLGSFQ  
 GFVVAVLYCFLNGEVQAEIKRKWRSWKVNRYFTMDFKHRHPSLASSGVNGGTQLSILSKSSQLRMSSLP  
 ADNLAT

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9044\\_f04.zip](https://cdn.origene.com/chromatograms/mm9044_f04.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**ACCN:** NM\_007407

**ORF 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](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.

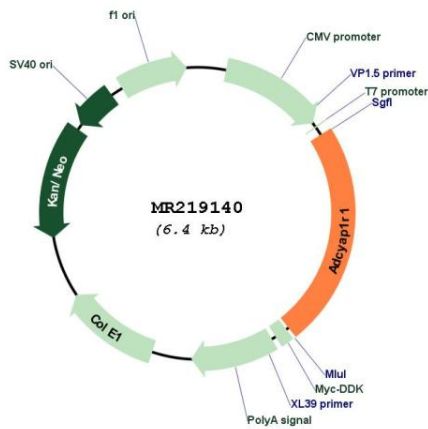
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_007407.4, NP\\_031433.3](#)  
**RefSeq Size:** 6262 bp  
**RefSeq ORF:** 1491 bp  
**Locus ID:** 11517  
**UniProt ID:** [P70205](#)  
**Cytogenetics:** 6 B3  
**MW:** 57.1 kDa

**Gene Summary:** This is a receptor for PACAP-27 and PACAP-38. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase. May regulate the release of adrenocorticotropin, luteinizing hormone, growth hormone, prolactin, epinephrine, and catecholamine. May play a role in spermatogenesis and sperm motility. Causes smooth muscle relaxation and secretion in the gastrointestinal tract.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR219140