

## Product datasheet for **RC215923**

### **PACAP receptor (ADCYAP1R1) (NM\_001118) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PACAP receptor (ADCYAP1R1) (NM_001118) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PACAP receptor
Synonyms:	PAC1; PAC1R; PACAPR; PACAPRI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC215923 representing NM\_001118  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTGGTGTCTGCACGTTTCCTGGCTGCTCTCCTCTGCTGCCTATGGCCCTGCCATGCATTCTG  
 ACTGCATCTTCAAGAAGGAGCAAGCCATGTGCCTGGAGAAGATCCAGAGGCCAATGAGCTGATGGGCTT  
 CAATGATTCTCTCCAGGCTGTCTGGGATGTGGGACAACATCACGTGTTGGAAGCCCGCCATGTGGGT  
 GAGATGGTCTGGTCAGCTGCCCTGAGCTCTTCCGAATCTTCAACCCAGACCAAGCTGGGAGACCGAAA  
 CCATTGGAGAGTCTGATTTTGGTACAGTAACCTTAGATCTCTCAGACATGGGAGTGGTGGCCGGAA  
 CTGCACGGAGGATGGCTGGTCCGAACCCCTCCCTCATTACTTTGATGCCTGTGGGTTTATGAAATGAA  
 TCTGAGACTGGGACCAGGATTACTACCTGTCAAGGACCTCTACACGGTTGGCTACAGCACAT  
 CCCTCGTACCCTCACCCTGCCATGGTCATCCTTTGTCGCTCCGGAAGCTGCACTGCACACGCAACTT  
 CATCCACATGAACCTGTTTGTGTCGTTTCTGCTGAGGGCGATCCCGTCTTCATCAAAGACTGGATTCTG  
 TATGCGGAGCAGGACAGCAACCCTGCTTCATCTCCACTGTGGAATGTAAGGCCGTCATGGTTTTCTCC  
 ACTACTGTGTTGTGCCAACTACTTCTGGCTGTTTCATCGAGGGCCTGTACCTCTTCACTCTGCTGGTGG  
 GACCTTCTCCCTGAAAGGAGATACTTCTACTGGTACACCATATTGGCTGGGGGACCCCAACTGTGTGT  
 GTGACAGTGTGGGCTACGCTGAGACTCTACTTTGATGACACAGGCTGCTGGGATATGAATGACAGCACAG  
 CTCTGTGGTGGGTGATCAAAGGCCCTGTGGTGGCTCTATCATGGTTAACTTTGTGCTTTTTATTGGCAT  
 TATCGTCATCCTGTGCAGAACTTCAGTCTCCAGACATGGGAGGCAATGAGTCCAGCATCTACTTGGCA  
 CTGGCCCGGTCCACCCTGCTGCTCATCCCCTATTCGGAATCCACTACACAGTATTTGCCTTCTCCCCAG  
 AGAATGTCAGCAAAAGGAAAGACTCGTGTGTTGAGCTGGGGCTGGGCTCCTTCCAGGGCTTTGGTGGC  
 GTTCTCTACTGTTTTCTGAATGGTGGTACAAGCGGAGATCAAGCGAAAATGGCGAAGCTGGAAGGTG  
 AACCGTTACTTCCGCTGTGGACTTCAAGCACCGACCCGCTCTGCGCAGCAGTGGGGTGAATGGGGCA  
 CCCAGCTCTCCATCCTGAGCAAGAGCAGCTCCCAATCCGCATGTCTGGCCTCCCTGCTGACAATCTGGC  
 CACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC215923 representing NM\_001118  
 Red=Cloning site Green=Tags(s)

MAGVVHVSIAALLLLPMPAMHSDCIFKKEQAMCLEKIQRANELMGFNDSPPGCPGMWDNITCWKPAHVG  
 EMVLVSCPFLFRIFNPDQVWETETIGESDFGDSNSLDLSDMGVVSRRNCTEDGWSEPFPHYFDACGFDEYE  
 SETGDQDYLYL SVKALYTVGYSTSLVTLTTAMVILCRFRKLHCTRNF IHMNL FVSFMLRAISVFIKDWIL  
 YAEQDSNHCFISTVECKAVMVFFHYCVVSNYFWLFI EGLYLFLLVETFFPERRYFYWYTIIGWGTPTVC  
 VTVWATLRLYFDDTGCWDMNDSTALWWVIKGPVVG SIMVNFVLF IGIIVILVQKLQSPDMGNESSIYLR  
 LARSTLLL IPLFGIHYTVFAFSPENVSKRERLVFELGLGSFQGFVVAVLYCFLNGEVQAEIKRKRWSWKV  
 NRYFAVDVFKHRHPSLASSGVNGGTQLSILSKSSSQIRMSGLPADNLAT

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6160\\_a08.zip](https://cdn.origene.com/chromatograms/mk6160_a08.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**ACCN:** NM\_001118

**ORF Size:** 1404 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\\_001118.5](#)
**RefSeq Size:** 1643 bp

**RefSeq ORF:** 1407 bp

**Locus ID:** 117

**UniProt ID:** [P41586](#)
**Cytogenetics:** 7p14.3

**Domains:** 7tm\_2, HormR

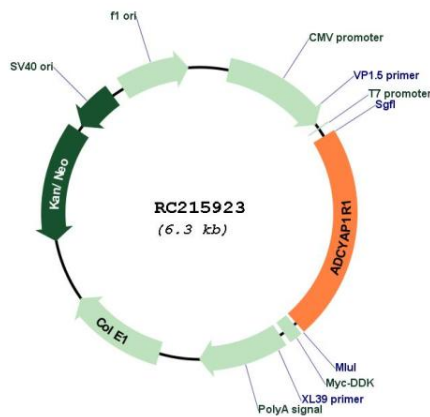
**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

**MW:** 53.31 kDa

**Gene Summary:** This gene encodes type I adenylate cyclase activating polypeptide receptor, which is a membrane-associated protein and shares significant homology with members of the glucagon/secretin receptor family. This receptor mediates diverse biological actions of adenylate cyclase activating polypeptide 1 and is positively coupled to adenylate cyclase. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Dec 2010]

**Product images:**



Circular map for RC215923