

## **Product datasheet for RC210851**

## 9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com

OriGene Technologies, Inc.

Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

## PACAP (ADCYAP1) (NM\_001117) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: PACAP (ADCYAP1) (NM\_001117) Human Tagged ORF Clone

Tag:Myc-DDKSymbol:PACAPSynonyms:PACAP

Mammalian Cell Neomycin

Selection:

Vector:

pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >RC210851 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

AAAGGGTTAAAAACAAAGGACGCCGAATAGCTTATTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC210851 protein sequence

Red=Cloning site Green=Tags(s)

MTMCSGARLALLVYGIIMHSSVYSSPAAAGLRFPGIRPEEEAYGEDGNPLPDFDGSEPPGAGSPASAPRA AAAWYRPAGRRDVAHGILNEAYRKVLDQLSAGKHLQSLVARGVGGSLGGGAGDDAEPLSKRHSDGIFTDS

YSRYRKQMAVKKYLAAVLGKRYKQRVKNKGRRIAYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk6008">https://cdn.origene.com/chromatograms/mk6008</a> d10.zip



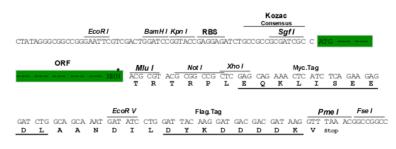


**Restriction Sites:** 

Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_001117

ORF Size: 528 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:** <u>NM 001117.5</u>

RefSeq Size: 3259 bp
RefSeq ORF: 531 bp
Locus ID: 116
UniProt ID: P18509



Cytogenetics: 18p11.32

Domains: GLUCA

**Protein Families:** Secreted Protein

MW: 18.8 kDa

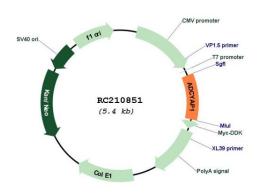
**Gene Summary:** This gene encodes a secreted proprotein that is further processed into multiple mature

peptides. These peptides stimulate adenylate cyclase and increase cyclic adenosine

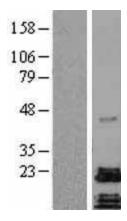
monophosphate (cAMP) levels, resulting in the transcriptional activation of target genes. The products of this gene are key mediators of neuroendocrine stress responses. Alternative

splicing results in multiple transcript variants. [provided by RefSeq, Feb 2013]

## **Product images:**

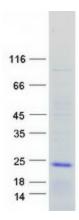


Circular map for RC210851



Western blot validation of overexpression lysate (Cat# [LY420506]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC221298] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified ADCYAP1 protein (Cat# [TP310851]). The protein was produced from HEK293T cells transfected with ADCYAP1 cDNA clone (Cat# RC210851) using MegaTran 2.0 (Cat# [TT210002]).