

Product datasheet for **RC221298**

PACAP (ADCYAP1) (NM_001099733) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PACAP (ADCYAP1) (NM_001099733) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PACAP
Synonyms:	PACAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221298 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGACCATGTGTAGCGGAGCGAGGCTGGCCCTGCTGGTCTATGGGATAATCATGCACAGCAGCGTCTACAGCTCACCTGCCGCCCGGACTCCGGTTCGCCGGGATCAGGCCAGAGGAAGAGGCGTACGGCGAGGACGAAACCCGCTGCCAGACTTCGATGGCTCGGAGCCCGGGCGCAGGGAGCCCCGCCTCCGCCCGCGCGCCGCCCGCCTGGTACCGCCGGCCGGGAGAAGAGATGTCGCCACGGGATCCTTAACGAGGCTACCGCA AAGTGCTGGACCAGCTGTCGCCGGGAAGCACCTGCAGTCGCTCGTGGCCGGGGCTGGGTGGGAGCCTCGGCGGCCGCGCGGGGACGACGCGGAGCCGCTCTCAAGCGCCACTCGGACGGGATCTTACGGACAGCTACAGCCGCTACCGAAACAAATGGCTGTCAAGAAATACTTGGCGCCGTCCTAGGGAAGAGGTATAAACAAAGGGTTAAAAACAAAGGACGCCGAATAGCTTATTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC221298 protein sequence Red=Cloning site Green=Tags(s)
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MTMCSGARLALLVYGIIMHSSVYSSPAAAGLRFPGIRPEEEAYGEDGNPLPDFDGSEPPGAGSPASAPRAAAWYRPAGRRDVAHGILNEAYRKVLDQLSAGKHLQSLVARGVGGSLGGGAGDDAEPLSKRHSDFITDSYSRYRKQMAVKKYLA AVL GKRYKQ RVK NKGRRIAYL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

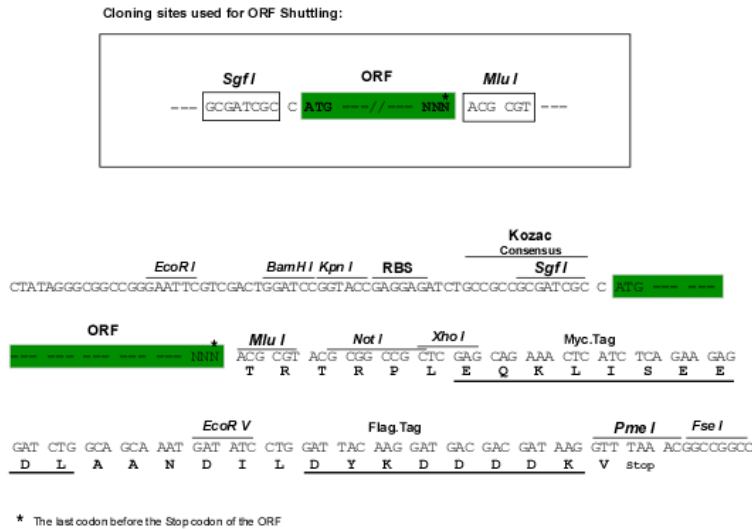
Chromatograms:	https://cdn.origene.com/chromatograms/mk6008_d10.zip
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001099733

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: [NM_001099733.2](#)

RefSeq Size: 3187 bp

RefSeq ORF: 531 bp

Locus ID: 116

UniProt ID: [P18509](#)

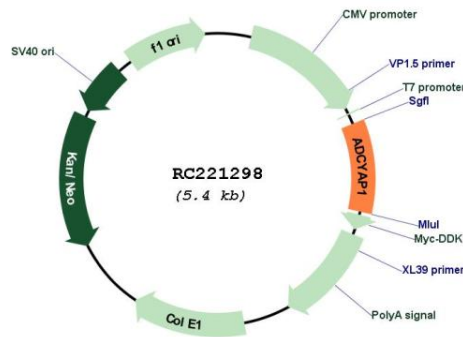
Cytogenetics: 18p11.32

Protein Families: Secreted Protein

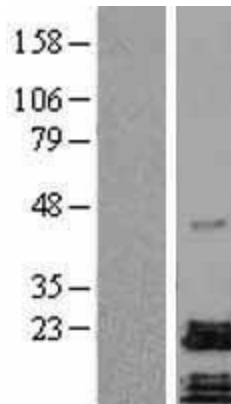
MW: 18.8 kDa

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]

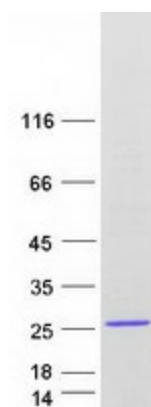
Product images:



Circular map for RC221298



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# [TP321298]). The protein was produced from HEK293T cells transfected with ADCYAP1 cDNA clone (Cat# RC221298) using MegaTran 2.0 (Cat# [TT210002]).