

## Product datasheet for **RG221298**

### **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:** TurboGFP  
**Symbol:** ADCYAP1  
**Synonyms:** PACAP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG221298 representing NM\_001099733  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACCATGTGTAGCGGAGCGAGGCTGGCCCTGCTGGTCTATGGGATAATCATGCACAGCAGCGTCTACA  
 GCTCACCTGCCGCCCGGACTCCGGTCCCGGGATCAGGCCAGAGGAAGAGCGTACGGCGAGGACGG  
 AAACCCGCTGCCAGACTTCGATGGCTCGGAGCCCGGGCGCAGGGAGCCCGCTCCGCCCGCGCGCC  
 GCCGCCGCTGGTACCGCCCGGGGAGAAGAGATGTCGCCACGGGATCCTTAACGAGGCTACCGCA  
 AAGTGCTGGACCAGCTGTCCGCCGGAAGCACCTGCAGTCGCTCGTGGCCGGGGCGTGGTGGGAGCCT  
 CGCGCGCGCGCGGGGACGACGCGGAGCCGCTCTCCAAGCGCCACTCGGACGGGATCTTACCGGACAGC  
 TACAGCCGCTACCGAAACAAATGGCTGTCAAGAAATACTTGGCGCCGTCTAGGGAAGAGGTATAAAC  
 AAAGGGTTAAAAACAAAGGACGCGCAATAGCTTATTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG221298 representing NM\_001099733  
 Red=Cloning site Green=Tags(s)

MTMCSGARLALLVYGIIMHSSVYSSPAAAGLRFPGIRPEEEAYGEDGNPLPDFDSEPPGAGSPASAPRA  
 AAAYWRPAGRRDVAHGILNEAYRKVLDQLSAGKHLQSLVARGVGGSLGGGAGDDAEPLSKRHSDFGIFDTS  
 YSRYRKQMAVKKYLA AVLGKRYKQRVKNGRRIAYL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI

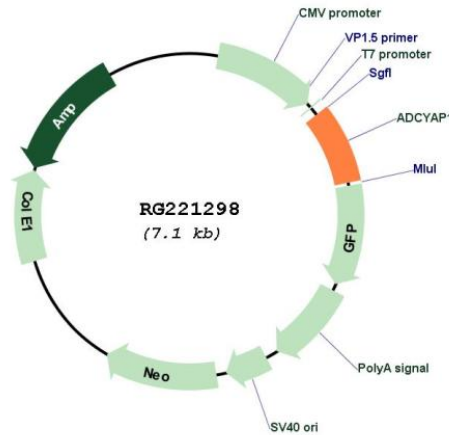


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Cloning Scheme:



Plasmid Map:



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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001099733.2</u>
<b>RefSeq Size:</b>	3187 bp
<b>RefSeq ORF:</b>	531 bp
<b>Locus ID:</b>	116
<b>UniProt ID:</b>	<u>P18509</u>
<b>Cytogenetics:</b>	18p11.32
<b>Protein Families:</b>	Secreted Protein
<b>Gene Summary:</b>	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]