

Product datasheet for **RG210851**

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: TurboGFP
Symbol: PACAP
Synonyms: PACAP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG210851 representing NM_001117
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCATGTGTAGCGGAGCGAGGCTGGCCCTGCTGGTCTATGGGATAATCATGCACAGCAGCGTCTACA
GCTCACCTGCCGCCGCGGACTCCGGTCCCGGGATCAGGCCAGAGGAAGAGCGTACGGCGAGGACGG
AAACCCGCTGCCAGACTTCGATGGCTCGGAGCCCGGGCGCAGGGAGCCCGCCTCCGCGCCGCGCGCC
GCCGCCGCTGGTACCGCCGGCCGGGAGAAGAGATGTCGCCACGGGATCCTTAACGAGGCTACCGCA
AAGTGCTGGACCAGCTGTCCGCCGGAAGCACCTGCAGTCGCTCGTGGCCGGGGCGTGGTGGGAGCCT
CGCGCGCGCGCGGGGACGACGCGGAGCCGCTCTCCAAGCGCCACTCGGACGGGATCTTACCGGACAGC
TACAGCCGCTACCGAAACAAATGGCTGTCAAGAAATACTTGGCGCCGTCTTAGGGAAGAGGTATAAAC
AAAGGGTTAAAAACAAAGGACGCGCAATAGCTTATTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG210851 representing NM_001117
Red=Cloning site Green=Tags(s)

MTMCSGARLALLVYGIIMHSSVYSSPAAAGLRFPGIRPEEEAYGEDGNPLPDFDSEPPGAGSPASAPRA
AAAWYRPAGRRDVAHGILNEAYRKVLDQLSAGKHLQSLVARGVGGSLGGGAGDDAEPLSKRHSDFGIFDTS
YSRYRKQMAVKKYLA AVL GKRYKQ RVKNGRRIAYL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


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: [NM_001117.5](#)

RefSeq Size: 1939 bp

RefSeq ORF: 531 bp

Locus ID: 116

UniProt ID: [P18509](#)

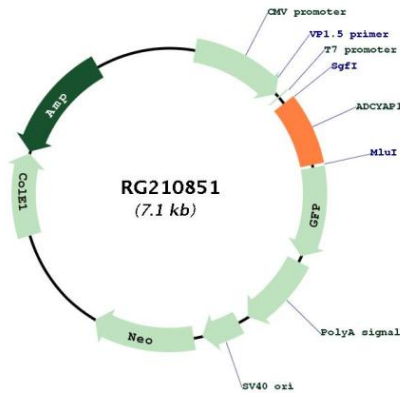
Cytogenetics: 18p11.32

Domains: GLUCA

Protein Families: Secreted Protein

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 RG210851