

## Product datasheet for **RG232856**

### **PACAP receptor (ADCYAP1R1) (NM\_001199636) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PACAP receptor (ADCYAP1R1) (NM_001199636) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADCYAP1R1
Synonyms:	PAC1; PAC1R; PACAPR; PACAPRI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG232856 representing NM\_001199636  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGGTGTCTGCACGTTTCCCTGGCTGCTCTCCTCTGCTGCCTATGGCCCTGCCATGCATTCTG  
 ACTGCATCTTCAAGAAGGAGCAAGCCATGTGCCTGGAGAAGATCCAGAGGGCCAATGAGCTGATGGGCTT  
 CAATGATTCTCTCCAGGCTGTCTGGGATGTGGGACAACATCACGTGTTGGAAGCCCGCCCATGTGGGT  
 GAGATGGTCTGGTCAGCTGCCCTGAGCTCTTCCGAATCTTCAACCCAGACCAAGCTGGGAGACCGAAA  
 CCATTGGAGAGTCTGATTTTGGTGACAGTAACCTTAGATCTCTCAGACATGGGAGTGGTGGCCGAA  
 CTGCACGGAGGATGGCTGGTCCGAACCCCTCCCTCATTACTTTGATGCCTGTGGGTTTGATGAATATGAA  
 TCTGAGACTGGGACCAGGATTACTACCTGTCAAGGCCCTCTACACGGTTGGCTACAGCACAT  
 CCCTCGTACCCTCACCCTGCCATGGTCATCCTTTGTCGCTCCGGAAGCTGCACTGCACACGCAACTT  
 CATCCACATGAACCTGTTGTGTCGTTTCATGCTGAGGGCGATCCCGTCTTCATCAAAGACTGGATTCTG  
 TATGCGGAGCAGGACAGCAACCCTGCTTCATCTCCACTGTGGAATGTAAGGCCGTCATGGTTTTCTCC  
 ACTACTGTGTTGTGCCAACTACTTCTGGCTGTTTCATCGAGGGCCTGTACCTCTTCACTCTGCTGGTGGGA  
 GACCTTCTCCCTGAAAGGAGATACTTCTACTGGTACACCATCATTGGCTGGGGGACCCCAACTGTGTGT  
 GTGACAGTGTGGGCTACGCTGAGACTCTACTTTGATGACACAGGCTGCTGGGATATGAATGACAGCACAG  
 CTCTGTGGTGGGTGATCAAAGGCCCTGTGGTGGCTCTATCATGGTTAACTTTGTGCTTTTTATTGGCAT  
 TATCGTCATCCTGTGCAGAAATTCAGTCTCCAGACATGGGAGGCAATGAGTCCAGCATCTACTTCTGC  
 TTACTCTGCGACTGGCCCGTCCACCCTGCTGCTCATCCCACTATTCCGGAATCCACTACACAGTATTGTC  
 CTTCTCCCAGAGAATGTCAGCAAAAGGAAAGACTCGTGTGAGCTGGGGCTGGGCTCCCTCCAGGGC  
 TTTGTGGTGGCTGTTCTACTGTTTTCTGAATGGTGGGTACAAGCGGAGATCAAGCGAAAATGGCGAA  
 GCTGGAAGGTGAACCGTTACTTCGCTGTGGACTTCAAGCACCGACACCCGCTCTCTGGCCAGCAGTGGGT  
 GAATGGGGCACCCAGCTCTCCATCCTGAGCAAGAGCAGTCCCAATCCGCATGTCTGGCTCCCTGCT  
 GACAATCTGGCCACC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG232856 representing NM\_001199636  
 Red=Cloning site Green=Tags(s)

MAGVVHVS LAALLLLP MAPAMHSDCIFKKEQAMCLEKIQRANELMGFNDS SPGCPGMWDNITCWKPAHVG  
 EMVLVSCP ELFRIFNP DQVWETETIGESDFGDSNSLDLSDMGVVS RNCTEDGWSEPFPHYFDACGFDEYE  
 SETGDQDY YYLSVKALYTVGYSTSLVTLTTAMVILCRFRKLHCTRNF IHMNLFVSFMLRAISVFIKDWIL  
 YAEQDSNHCFISTVECKAVMVFFHYCVVSNYFWLFI EGLYLF TLLVETFFPERRYFYWYTIIGWGTPTVC  
 VTVWATLRLYFDDTGCWDMNDSTALWWVIKGPVVG SIMVNFVLFIGIIVILVQKLQSPDMGNESSIYFC  
 VQKCYCKPQRAQQHSCKMSELSTITLRLARSTLLL IPLFGIHYTVFAFSPENVSKRERLVFELGLGSFQG  
 FVVAVLYCFLNGEVQAEIKRKWRSWKVNRIFYAVDFKHRHPSLASSGVNGGTQLSILSKSSSQIRMSGPLPA  
 DNLAT

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



*EcoRI*
*BamHI* *KpnI*
RBS
Kozac  
Consensus
*SgfI*
*AscI*

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

*HindIII*
*NheI* *RsrII*
*MluI*
*NotI*
*XhoI*
GFP Tag

CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

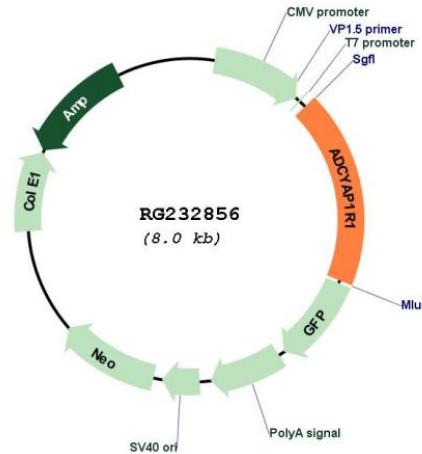
T R T R P L E
M E S D - - -

*PmeI*
*FseI*

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

Plasmid Map:



ACCN: NM\_001199636

ORF Size: 1485 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\\_001199636.2](#)

**RefSeq Size:** 6590 bp

**RefSeq ORF:** 1488 bp

**Locus ID:** 117

**UniProt ID:** [P41586](#)

**Cytogenetics:** 7p14.3

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

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

**Gene Summary:** This gene encodes type I adenylyate 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 adenylyate cyclase activating polypeptide 1 and is positively coupled to adenylyate cyclase. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Dec 2010]