

## Product datasheet for **RC232738**

### **PACAP receptor (ADCYAP1R1) (NM\_001199637) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PACAP receptor (ADCYAP1R1) (NM_001199637) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADCYAP1R1
Synonyms:	PAC1; PAC1R; PACAPR; PACAPRI
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC232738 representing NM\_001199637  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTGGTGTCTGCACGTTTCCCTGGCTGCTCTCCTCTGCTGCTATGGCCCTGCCATGCATTCTG  
 ACTGCATCTTCAAGAAGGAGCAAGCCATGTGCCTGGAGAAGATCCAGAGGCCAATGAGCTGATGGGCTT  
 CAATGATTCTCTCCAGGCTGTCTGGGATGTGGGACAACATCACGTGTTGGAAGCCCGCCCATGTGGGT  
 GAGATGGTCTGGTCACTGCCCTGAGCTCTTCCGAATCTTCAACCCAGACCAAGACATGGGAGTGGTGA  
 GCCGGAATGCACGGAGGATGGCTGGTCCGAACCTTCCCTCATTACTTTGATGCCTGTGGGTTTGTGA  
 ATATGAATCTGAGACTGGGGACCAGGATTACTACTGTGCTGAGTGAAGGCCCTTACACGGTTGGCTAC  
 AGCACATCCCTCGTCACCCTCACCCTGCCATGGTCATCCTTTGTCGCTCCGGAAGCTGCACTGCACAC  
 GCAACTTCATCCACATGAACCTGTTTGTGTCGTTTCATGCTGAGGGCGATCTCCGCTTCATCAAAGACTG  
 GATTCTGTATGCCGAGCAGGACAGCAACCCTGCTTCATCTCCACTGTGGAATGTAAGGCCGTTCATGGTT  
 TTCTTCCACTACTGTGTTGTGTCCAACCTTCTGGCTGTTTCATCGAGGGCCTGTACCTTCTCACTCTGC  
 TGGTGGAGACCTTCTCCCTGAAAGGAGATACTTCTACTGGTACACCATCATTGGCTGGGGGACCCCAAC  
 TGTGTGTGTGACAGTGTGGGCTACGCTGAGACTCTACTTTGATGACACAGGCTGCTGGGATGAAATGAC  
 AGCACAGCTCTGTGGTGGTGTCAAAGGCCCTGTGGTTGGCTCTATCATGGTAACTTTGTGCTTTTTA  
 TTGGCATTATCGTCATCCTTGTGCAGAACTTCACTCCAGACATGGGAGGCAATGAGTCCAGCATCTA  
 CTTGCGACTGGCCGGTCCACCCTGCTGCTCATCCACTATTCCGAATCCACTACACAGTATTTGCCTTC  
 TCCCAGAGAATGTCAGCAAAAGGAAAGACTCGTGTGAGCTGGGGCTGGGCTCCTCCAGGGCTTTG  
 TGGTGGCTGTTCTACTGTTTTCTGAATGGTGAAGTACAAGCGGAGATCAAGCGAAAATGGCGAAGCTG  
 GAAGGTGAACCGTTACTTCGCTGTGACTTCAAGCACCGACACCCGCTCTGCGCCAGCAGTGGGGTGAAT  
 GGGGGCACCCAGCTCTCCATCCTGAGCAAGAGCAGCTCCCAAATCCGCATGTCTGGCCTCCTGCTGACA  
 ATCTGGCCACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC232738 representing NM\_001199637  
 Red=Cloning site Green=Tags(s)

MAGVVHVSLAALLLLPMAPAMHSDCIFKKEQAMCLEKIQRANELMGFNDSPPGCPGMWDNITCWKPAHVG  
 EMVLVSCPELFRIFNPQDMGVVSRNCTEDGWSEPFPHYFDACGFDEYESETGDQDYLYL SVKALYTVGY  
 STSLVTLTTAMVILCRFRKLHCTRNFIMNLFVSFMLRAISVFIKDWILYAEQDSNHCFISTVECKAVMV  
 FFHYCVSNYFWLFI EGLYLFTLLVETFFPERRYFYWYTIIGWGTPTVCVTWATLRLYFDDTGCDWMND  
 STALWWVIKGPVVGSI MVNVLFIGIIVLVQKLQSPDMGGNESSIYLRLARSTLLIPLFGIHYTVFAF  
 SPENVSKRERLVFELGLGSFQGFVAVLYCFLNGEVQAEIKRKWRSWKVNRVYFAVDFKHRHPSLASSGVN  
 GGTQLSILSKSSSQIRMSGLPADNLAT

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

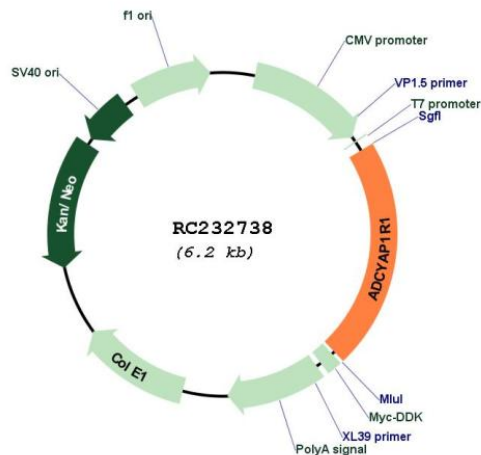
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001199637

ORF Size: 1341 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).

<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>	<a href="#">NM_001199637.2</a>
<b>RefSeq Size:</b>	6446 bp
<b>RefSeq ORF:</b>	1344 bp
<b>Locus ID:</b>	117
<b>UniProt ID:</b>	<a href="#">P41586</a>
<b>Cytogenetics:</b>	7p14.3
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>MW:</b>	51.5 kDa
<b>Gene Summary:</b>	This gene encodes type I adenylate 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 adenylate cyclase activating polypeptide 1 and is positively coupled to adenylate cyclase. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Dec 2010]