

## Product datasheet for **RG232738**

### **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:	TurboGFP
Symbol:	ADCYAP1R1
Synonyms:	PAC1; PAC1R; PACAPR; PACAPRI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG232738 representing NM\_001199637  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGGTGTCTGCACGTTTCCCTGGCTGCTCTCCTCTGCTGCTATGGCCCTGCCATGCATTCTG  
 ACTGCATCTTCAAGAAGGAGCAAGCCATGTGCCTGGAGAAGATCCAGAGGCCAATGAGCTGATGGGCTT  
 CAATGATTCTCTCCAGGCTGTCTGGGATGTGGGACAACATCACGTGTTGGAAGCCCGCCCATGTGGGT  
 GAGATGGTCTGGTCTGAGCTGCCCTGAGCTCTTCCGAATCTTCAACCCAGACCAAGACATGGGAGTGGTGA  
 GCCGGAAGTGCACGGAGGATGGCTGGTCCGAACCTTCCCTCATTACTTTGATGCCTGTGGGTTTGATGA  
 ATATGAATCTGAGACTGGGGACCAGGATTATTACTACCTGTCAGTGAAGGCCCTTACACGGTTGGCTAC  
 AGCACATCCCTCGTCACCCTCACCCTGCCATGGTCATCCTTTGTCGCTCCGGAAGCTGCACTGCACAC  
 GCAACTTCATCCACATGAACCTGTTTGTGTCGTTTCATGCTGAGGGCGATCTCCGTCTTCATCAAAGACTG  
 GATTCTGTATGCGGAGCAGGACAGCAACCCTGCTTCATCTCCACTGTGGAATGTAAGGCCGTTCATGGTT  
 TTCTTCCACTACTGTGTTGTGTCCAACCTACTTCTGGCTGTTTCATCGAGGGCCTGTACCTCTTCACTCTGC  
 TGGTGGAGACCTTCTCCCTGAAAGGAGATACTTCTACTGGTACACCATCATTGGCTGGGGGACCCCAAC  
 TGTGTGTGTGACAGTGTGGGCTACGCTGAGACTCTACTTTGATGACACAGGCTGCTGGGATATGAATGAC  
 AGCACAGCTCTGTGGTGGTGTCAAAGGCCCTGTGGTTGGCTCTATCATGGTTAACTTTGTGCTTTTTA  
 TTGGCATTATCGTCATCCTTGTGCAGAACTTCAGTCTCCAGACATGGGAGGCAATGAGTCCAGCATCTA  
 CTTGCGACTGGCCGGTCCACCCTGCTGCTCATCCACTATTCCGAATCCACTACACAGTATTTGCCTTC  
 TCCCAGAGAATGTCAGCAAAAGGAAAGACTCGTGTGAGCTGGGGCTGGGCTCCTCCAGGGCTTTG  
 TGGTGGCTGTTCTACTGTTTTCTGAATGGTGAAGTACAAGCGGAGATCAAGCGAAAATGGCGAAGCTG  
 GAAGGTGAACCGTTACTTCGCTGTGACTTCAAGCACCGACACCCGTCTCTGGCCAGCAGTGGGGTGAAT  
 GGGGGCACCCAGCTCTCCATCCTGAGCAAGAGCAGCTCCCAAATCCGCATGTCTGGCCTCCTGCTGACA  
 ATCTGGCCACC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG232738 representing NM\_001199637  
 Red=Cloning site Green=Tags(s)

MAGVVHVSIAALLLLPMAPAMHSDCIFKKEQAMCLEKIQRANELMGFNDSSPGCPGMWDNITCWKPAHVG  
 EMVLVSCPELFRIFNPDQDMGVVSRNCTEDGWSEPFPHYFDACGFDEYESETGDQDYLYL SVKALYTVGY  
 STSLVTLTTAMVILCRFRKLHCTRNF IHMNL FVSFMLRAISVF IKDWIL YAEQDSNHCF ISTVECKAVMV  
 FFHYCVVSNYFWLFI EGLYLFTLLVETFFPERRYFYWYTI IGWGTPTVCVTWATLRL YFDDTGCDMND  
 STALWWWIKGPVVGSIMVNFVLF IGIIVLVQKLQSPDMGGNESSIYLRRLARSTLLL IPLFGIHYTVFAF  
 SPENVSKRERLVFELGLGSFQGFVAVLYCF LNGEVQAEIKRKWRSWKVNRYFAVDFKHRHPSLASSGVN  
 GGTQLSILSKSSSQIRMSGLPADNLAT

**TRTRPLE** – GFP Tag – V

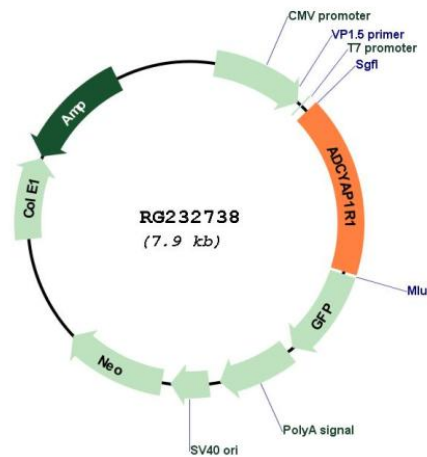
**Restriction Sites:**

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.

<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>	<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>Gene Summary:</b>	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]