

Product datasheet for **RG232858**

PACAP receptor (ADCYAP1R1) (NM_001199635) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PACAP receptor (ADCYAP1R1) (NM_001199635) 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:

>RG232858 representing NM_001199635
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGGTGTCTGCACGTTTCCCTGGCTGCTCTCCTCTGCTGCCTATGGCCCTGCCATGCATTCTG
 ACTGCATCTTCAAGAAGGAGCAAGCCATGTGCCTGGAGAAGATCCAGAGGCCAATGAGCTGATGGGCTT
 CAATGATTCCTCTCCAGGCTGTCTGGGATGTGGGACAACATCACGTGTTGGAAGCCCGCCCATGTGGGT
 GAGATGGTCTGGTCAGCTGCCCTGAGCTCTTCCGAATCTTCAACCCAGACCAAGCTGGGAGACCGAAA
 CCATTGGAGAGTCTGATTTTGGTACAGTAACCTTAGATCTCTCAGACATGGGAGTGGTGGCCGGAA
 CTGCACGGAGGATGGCTGGTCCGAACCCCTCCCTCATTACTTTGATGCCTGTGGGTTTGTGAATATGAA
 TCTGAGACTGGGACCAGGATTACTACCTGTCAAGGCCCTCTACACGGTTGGCTACAGCACAT
 CCCTCGTACCCTCACCCTGCCATGGTCATCCTTTGTCGCTCCGGAAGCTGCACTGCACACGCAACTT
 CATCCACATGAACCTGTTTGTGTCGTTTCATGCTGAGGGCGATCTCCGTCTTCATCAAAGACTGGATTCTG
 TATGCGGAGCAGGACAGCAACCCTGCTTCATCTCCACTGTGGAATGTAAGGCCGTATGGTTTTCTTCC
 ACTACTGTGTTGTGCCAACTACTTCTGGCTGTTTCATCGAGGGCCTGTACCTCTTCACTCTGCTGGTGG
 GACCTTCTCCCTGAAAGGAGATACTTCTACTGGTACACCATATTGGCTGGGGGACCCCAACTGTGTGT
 GTGACAGTGTGGGCTACGCTGAGACTCTACTTTGATGACACAGGCTGCTGGGATATGAATGACAGCACAG
 CTCTGTGGTGGGTGATCAAAGGCCCTGTGGTGGCTCTATCATGGTTAACTTTGTGCTTTTTATTGGCAT
 TATCGTCATCCTGTGCAGAACTTCAGTCTCCAGACATGGGAGGCAATGAGTCCAGCATCTACTTCAGC
 TCGTGCAGAAATGCTACTGCAAGCCACAGCGGGCTCAGCAGCACTCTTGAAGATGTGAGAAGTGTCCA
 CCATTACTCTGCGACTGGCCCGTCCACCCTGCTCCTCCACTATCCGAAATCCACTACACAGTATT
 TGCCCTTCTCCCCAGAGAATGTCAGCAAAAAGGAAAGACTCGTGTGTTGAGCTGGGGCTGGGCTCCTCCAG
 GGCTTTGTGGTGGCTGTTCTCTACTGTTTTCTGAATGGTGGTACAAGCGGAGATCAAGCGAAAATGGC
 GAAGCTGGAAGGTGAACCGTTACTTCGCTGTGGACTTCAAGCACCGACACCCGCTCTGCGCCAGCAGTGG
 GGTGAATGGGGCACCCAGCTCTCCATCCTGAGCAAGAGCAGCTCCCAAATCCGCATGTCTGGCCTCCCT
 GCTGACAACTGGCCACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG232858 representing NM_001199635
 Red=Cloning site Green=Tags(s)

MAGVVHVS LAALLLLP MAPAMHSDCIFKKEQAMCLEKIQRANELMGFNDS SPGCPGMWDNITCWKPAHVG
 EMVLVSCP ELFRIFNP DQVWETETIGESDFGDSNSLDLSDMGVVS RNCTEDGWSEPFPHYFDACGFDEYE
 SETGDQDY YYL SVKALYTVGYSTSLVTLTTAMVILCRFRKLHCTRNF IHMNL FVSFMLRAISVFIKDWIL
 YAEQDSNHCFISTVECKAVMVFFHYCVVSNYFWLFI EGLYLF TLLVETFFPERRYFYWYTIIGWGTPTVC
 VTVWATLRLYFDDTGCDWMDSTALWWWIKGPVVG SIMVNFVLF IGIIVILVQKLQSPDMGNESSIYFS
 CVQKCYCKPQRAQQHSCKMSELSTITLRLARSTLLL IPLFGIHYTVFAFSPENVSKRERLVFELGLGSFQ
 GFVVAVLYCFLNGEVQAEIKRKWRSWKVNR YFAVDFKHRHPSLASSGVNGGTQLSILSKSSSQIRMSGLP
 ADNLAT

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Kozac
Consensus

EcoR I BamH I Kpn I RBS Sgf I Asc I

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

Hind III Nhe I Rsr II Mlu I Not I Xho I GFP Tag

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

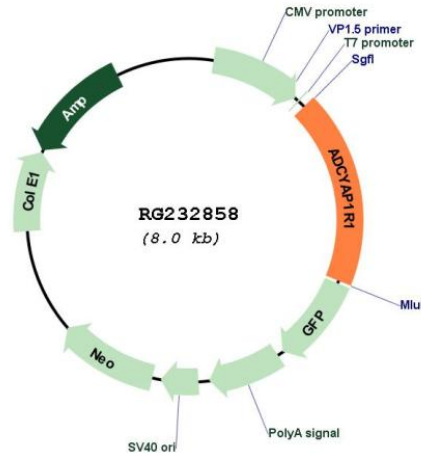
T R T R P L E M E S D - - -

Pme I Fse I

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

- - - E E R V Stop

Plasmid Map:



ACCN: NM_001199635

ORF Size: 1488 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:	<ol style="list-style-type: none">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_001199635.1 , NP_001186564.1
RefSeq Size:	6593 bp
RefSeq ORF:	1491 bp
Locus ID:	117
UniProt ID:	P41586
Cytogenetics:	7p14.3
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	<p>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]</p>