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Product datasheet for RC232858

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:	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:

>RC232858 representing NM_001199635
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGGTGTCGTGCACGTTTCCCTGGCTGCTCTCCTCCTGCTGCCTATGGCCCCTGCCATGCATTCTG
ACTGCATCTTCAAGAAGGAGCAAGCCATGTGCCTGGAGAAGATCCAGAGGGCCAATGAGCTGATGGGCTT
CAATGATTCCTCTCCAGGCTGTCCTGGGATGTGGGACAACATCACGTGTTGGAAGCCCGCCCATGTGGGT
GAGATGGTCCTGGTCAGCTGCCCTGAGCTCTTCCGAATCTTCAACCCAGACCAAGTCTGGGAGACCGAAA
CCATTGGAGAGTCTGATTTTGGTGACAGTAACTCCTTAGATCTCTCAGACATGGGAGTGGTGAGCCGGAA
CTGCACGGAGGATGGCTGGTCGGAACCCTTCCCTCATTACTTTGATGCCTGTGGGTTTGATGAATATGAA
TCTGAGACTGGGGACCAGGATTATTACTACCTGTCAGTGAAGGCCCTCTACACGGTTGGCTACAGCACAT
CCCTCGTCACCCTCACCACTGCCATGGTCATCCTTTGTCGCTTCCGGAAGCTGCACTGCACACGCAACTT
CATCCACATGAACCTGTTTGTGTCGTTCATGCTGAGGGCGATCTCCGTCTTCATCAAAGACTGGATTCTG
TATGCGGAGCAGGACAGCAACCACTGCTTCATCTCCACTGTGGAATGTAAGGCCGTCATGGTTTTCTTCC
ACTACTGTGTTGTGTCCAACTACTTCTGGCTGTTCATCGAGGGCCTGTACCTCTTCACTCTGCTGGTGGA
GACCTTCTTCCCTGAAAGGAGATACTTCTACTGGTACACCATCATTGGCTGGGGGACCCCAACTGTGTGT
GTGACAGTGTGGGCTACGCTGAGACTCTACTTTGATGACACAGGCTGCTGGGATATGAATGACAGCACAG
CTCTGTGGTGGGTGATCAAAGGCCCTGTGGTTGGCTCTATCATGGTTAACTTTGTGCTTTTTATTGGCAT
TATCGTCATCCTTGTGCAGAAACTTCAGTCTCCAGACATGGGAGGCAATGAGTCCAGCATCTACTTCAGC
TGCGTGCAGAAATGCTACTGCAAGCCACAGCGGGCTCAGCAGCACTCTTGCAAGATGTCAGAACTGTCCA
CCATTACTCTGCGACTGGCCCGGTCCACCCTGCTGCTCATCCCACTATTCGGAATCCACTACACAGTATT
TGCCTTCTCCCCAGAGAATGTCAGCAAAAGGGAAAGACTCGTGTTTGAGCTGGGGCTGGGCTCCTTCCAG
GGCTTTGTGGTGGCTGTTCTCTACTGTTTTCTGAATGGTGAGGTACAAGCGGAGATCAAGCGAAAATGGC
GAAGCTGGAAGGTGAACCGTTACTTCGCTGTGGACTTCAAGCACCGACACCCGTCTCTGGCCAGCAGTGG
GGTGAATGGGGGCACCCAGCTCTCCATCCTGAGCAAGAGCAGCTCCCAAATCCGCATGTCTGGCCTCCCT
GCTGACAATCTGGCCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

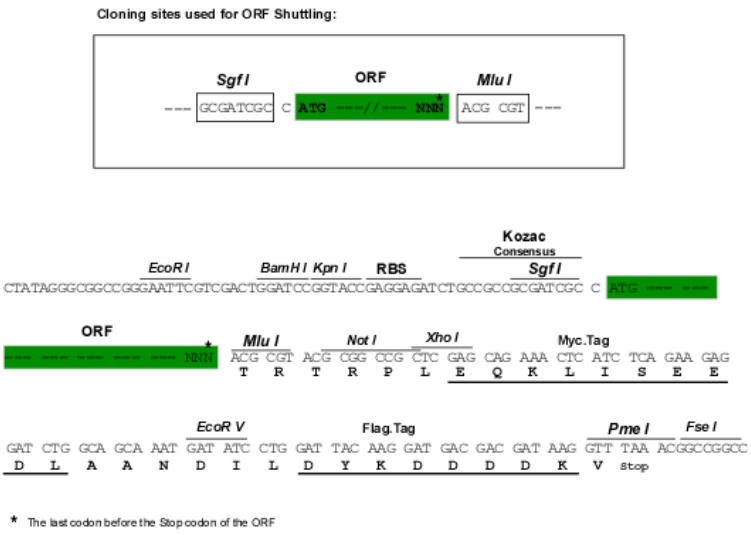
>RC232858 representing NM_001199635
Red=Cloning site Green=Tags(s)

MAGVVHVSLAALLLLPMAPAMHSDCIFKKEQAMCLEKIQRANELMGFNDSSPGCPGMWDNITCWKPAHVG
EMVLVSCPELFRIFNPDQVWETETIGESDFGDSNSLDLSDMGVVSRNCTEDGWSEPFPHYFDACGFDEYE
SETGDQDYYYLSVKALYTVGYSTSLVTLTTAMVILCRFRKLHCTRNFIHMNLFVSFMLRAISVFIKDWIL
YAEQDSNHCFISTVECKAVMVFFHYCVVSNYFWLFIEGLYLFTLLVETFFPERRYFYWYTIIGWGTPTVC
VTVWATLRLYFDDTGCWDMNDSTALWWVIKGPVVGSIMVNFVLFIGIIVILVQKLQSPDMGGNESSIYFS
CVQKCYCKPQRAQQHSCKMSELSTITLRLARSTLLLIPLFGIHYTVFAFSPENVSKRERLVFELGLGSFQ
GFVVAVLYCFLNGEVQAEIKRKWRSWKVNRYFAVDFKHRHPSLASSGVNGGTQLSILSKSSSQIRMSGLP
ADNLAT

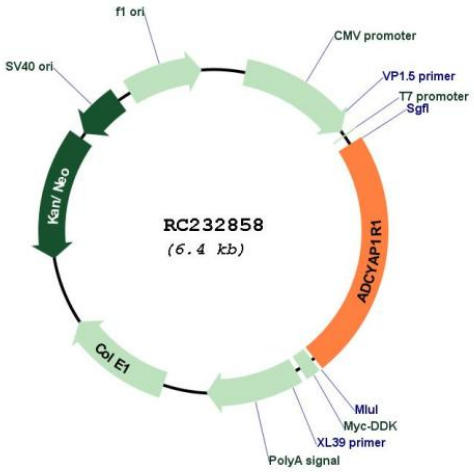
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:	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
MW:	57 kDa
Gene Summary:	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]