

Product datasheet for RR201180

Adcyap1 (NM_016989) Rat Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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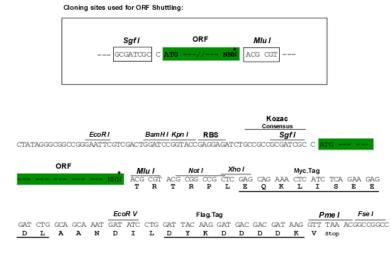
Product Type:Expression PlasmidsProduct Name:Adcyap1 (NM_016989) Rat Tagged ORF CloneTag:Myc-DDKSymbol:Adcyap1Symonyms:PacapVector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)Cell Selection:NeomycinORF NucleotidePR201180 representing NM_016989Sequence:TTTGTATACGACTCACTATAGGGGGGCGGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCAfGCCATGGTCGCCCCGGGCGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCAfGACCATGTGTAGCGGAGCAAGCTGGCCCTGTTGGTCTACGGGATAGGATAGGATGGACCTCCCCACAGGAAGCTCGCCCCCCCC			
Tag:Myc-DDKSymbol:Adcyap1Synonyms:PacapVector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)Cell Selection:NeomycinORF Nucleotide>RR201180 representing NM_016989Sequence:Red=Cloning site Blue=ORF Green=Tags(s)TTTTGTAATACGACTCACTATAGGGCGGCGGGGAATTCGTCAGGATACGAGAGAGA	Product Type:	Expression Plasmids	
Symbol:Adcyap1Synonyms:PacapVector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)Cell Selection:NeomycinORF Nucleotide>RR201180 representing NM_016989Sequence:Red-Cloning site Blue=ORF Green=Tags(s)TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGGACTGGATCCGGAGGAGATCTGCCCGCGCGATCGCCATGACCATGTGTAGCGGAGCAAGGTTGGCCCTGGTGGCCTACGGAAGAGAGGCTAACGACCCAGAGAGACCCGCGCGCG	Product Name:	Adcyap1 (NM_016989) Rat Tagged ORF Clone	
Synonyms: Pacap Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL) Cell Selection: Neomycin ORF Nucleotide >RR201180 representing NM_016989 Sequence: Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGGATCCGGATCCGAGGAGATCTGCC GCCGCGCGCCCC ATGACCATGTGTAGCGGAGCAAGGTTGGCCCTGTTGGTCTACGGGAAGAGAGAG	Tag:	Myc-DDK	
Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL) Cell Selection: Neomycin ORF Nucleotide >RR201180 representing NM_016989 Sequence: Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGACCATGTGTAGCGGAGCAAGGTTGGCCCTGTTGGTCTACGGGATAATAATGCATACAGCGTCTCCT GTCCCGCGCGCGCCCCC ATGACCATGTGTAGCGGAGCAAGGTTGGCCCTGTGGTCTACGGGATAATAATGCATACAGCGTCTCCT GTCTCGCGCCCGGACTCACGCTACGGACCCGGACAGGAGAGAGGGCTTACGAACAGGGACCCCCCCTACCGCAGAGAGAG	Symbol:	Adcyap1	
E. coli Selection:Kanamycin (25 ug/mL)Cell Selection:NeomycinORF Nucleotide Sequence:>RR201180 representing NM_016989 Red=Cloning site Blue=ORF Green=Tags(s)TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCCATGACCATGTGTAGCGGAGCAAGGTTGGCCCTGTTGGTCTACGGGATAATAATGCATAACAGCGTCTCCT GTTCACCTGCGCCGCAGCACTCACCTACGGCCGCGAGCAAGGATTCGTCCGGGCCCGCCGCCGCCGCGCGCAGCAAGGATTCCTCCGGGCCGAGGAGCCCCCCCC	Synonyms:	Расар	
Cell Selection: Neomycin ORF Nucleotide >RR201180 representing NM_016989 Sequence: Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGACCATGTGTAGCGGAGCAAGGTTGGCCCTGTGGTCTACGGGATAATAATGCATAACAGCGTCTCCT GTTCACCTGCCGCCGGACTCACTTCCTGGGATCCAGAACAGAAGAGGCTTACGATCAGACCAGAAA CCCGCGTGCAAGACTTCACCACGGACCAAGGTTGGCCCCAGGAAAAGAGAGGCTTACGATCAGACCGGCAAAA CCCGCGTGCAAGACTTCACCGACGGACAGCTGCGCCCACGAAAGGGACCCCCCCC	Vector:	pCMV6-Entry (PS100001)	
ORF Nucleotide Sequence: >RR201180 representing NM_016989 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGCATCGCC ATGACCATGTGTAGCGGAGCAAGGTTGGCCCTGTTGGTCTACGGGATAATAATGCATAACAGCGTCTCCT GTTCACCTGCGCCGCGGAGCAAGGTTGGCCCTGGGACCAAGAAGAAGAGGGCTTACGATCAGGACGGAAA CCCGCTGCAAGACTTCTACGACTGGGACCCTCGGGGCCAGGAGAGCCCCGCCTCCGCGCTGCAGGACGAA CCCGCTTGCACCGCGGCCGGAGCAAGGCTCGGCCAGGAGAGCCCCGCCTCCGCGCTGCGCGAGGACC TACGCCCTTTACTACCAGCCGAGCAGGAGAGATGCTGCCCAGGAGAGAGCCCCGCCTCCGCGCTGCGCGAGGAAACCTCGC TACGCCCTTTACTACCAGCCGACGGAGAAGTACCTGGCAGCAGGAGAGCCCCGCCTTACGACGCCA TCTTGGACCAGCTGCCCAGGAGAGACGCCGAGTACTCGCCATGGTGGCCAGGGAAACCTCGC CGCCGCCGCGGCGGCGGCGGCCGCGCAGGAAGCCCCCTTACCAAACGGCCATCGGCCGAGGAAACCTCGC CGCCGCCGCGCGGCGGCCGCTCGAGGAAACTCATCTGCAGGAGGAGTCTGGCCAGGAAAAGGTATAAACAGA GGGTTAAAAACAAAGGACGCCGAATAGCGTACTTG Protein Sequence: >RR201180 representing NM_016989 Red=Cloning site Green=Tags(s) MTMCSGGARLALLVYGIIMHNSVSCSPAAGLSFPGIRPEEEAYDQDGNPLQDFYDWDPPGAGSPASALRDA YALYYPADRRDVAHEILNEAYRKVLQDLSARKYLQSMVARGMGENLAAAAVDDRAPLTKRHSDGIFTDSY SRYRKQMAVKKYLAAVLGKRYKQRVNKGRRIAYL	E. coli Selection:	Kanamycin (25 ug/mL)	
Sequence: Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGCATCGCC ATGACCATGTGTAGCGGAGCAAGGTTGGCCCTGTTGGTCTACGGATAATAATGCATAACAGCGTCTCCT GTTCACCTGCCGCCCGGACTCAGCTTCCCTGGGGCACAAGAGAAGGAGGCTTACGATCAGGACGGAAA CCCGCCGCCGCGCCCGACTCAGCTTACGACCGGGCGCCCGGGCGCCCCCGCCCCGCGCGGCGCCCCCGCCCGCG	Cell Selection:	Neomycin	
GCCGCGATCGCC ATGACCATGTGTAGCGGAGCAAGGTTGGCCCTGTTGGTCTACGGGATAATAATGCATAACAGCGTCTCCT GTTCACCTGCCGCCGGACTCAGCTTCCCTGGGATCAGACCAGAAGAAGAGGCTTACGATCAGGACGGAAA CCCGCTGCAAGACTTCTACGACTGGGACCCCCGGGCGCCGGGGGCCCGCGCTGCGGGGCAGGACGCC ACCCGCTTTACTACCACCAGCAGGAGAGAGAGTGTCGCCCCAGGAAACAAGGCCTACCGCCAGGACGCAAGG CCCGCCGCCGCGGTGGACGACCGGGCACCCCTTACGAAGCCACTGGGCCAGGGCCATGGCCAGAAGCCTCCCC CCCGCCGCCGCGGTGGACGACCGGGCACCCCTTACCAAACGCCACTCGGACGGCATCTTAACGAAGGCTATCACGACGGCCAGAAACGAAATGGCTGTCAAGAAATACTTGGCGGCCGTGCAGGACAAGGTATAAACAGA GCGCGTACGCGGCCCGCCCGAGCAGCACCCCTTACCAAAGGGCCTCGGCAGGAAAAGGTATAAACAGA GGGTTAAAAACAAAGGACGCCGGAATAGCGTACTTG ACGCCGTACGCGGCCCGCCCGAGCAGGAAACTCATCTCCAGAAGAGGATCTGGCAGCAAATGATATCCCTGGATT ACAGGGTAGCGCGGCCCGCCCGAGCAGGAAACTCATCTCCAGAAGAGGGATCTGGCAGCAAATGATATCCTGGATT ACAGCGTACGCGGCCCGCCCGACCAGGTTTAA Protein Sequence: >RR201180 representing NM_016989 Red=Cloning site Green=Tags(s) MTMCSGARLALLVYGIIMHNSVSCSPAAGLSFPGIRPEEEAYDQDGNPLQDFYDWDPPGAGSPASALRDA YALYYPADRRDVAHEILNEAYRKVLDQLSARKYLQSMVARGMGENLAAAAVDDRAPLTKRHSDGIFTDSY SRYRKQMAVKKYLAAVLGKRYKQRVKNKGRRIAYL			
GTTCACCTGCCGCCGGACTCAGCTTCCCTGGGATCAGACCAGAAGAAGAGGCTTACGATCAGGACGGAAA CCCGCTGCAAGACTTCTACGACTGGGACCCTCCGGGGCGCAGGGAGCCCCGCCTCCGGCGTGACGCC TACGCCCTTTACTACCAAGCCGGCCAGGGAGATGTCGCCCACGAAATCCTTAACGAAGCCTACCGCAAAG TCTTGGACCAGCTGTCCGCCAGGAAGTACCTCCCAGTCCATGGTGGCCAGGGCATGGCCGAGAACCTCGC CGCCGCCGCGCGGGGGACGACCGGCCACCCCTTACCAAACGCCACTCGGACGGCATCTTCACAGACAG			
ACAAGGATGACGACGATAAGGTTTAA Protein Sequence: >RR201180 representing NM_016989 Red=Cloning site Green=Tags(s) MTMCSGARLALLVYGIIMHNSVSCSPAAGLSFPGIRPEEEAYDQDGNPLQDFYDWDPPGAGSPASALRDA YALYYPADRRDVAHEILNEAYRKVLDQLSARKYLQSMVARGMGENLAAAAVDDRAPLTKRHSDGIFTDSY SRYRKQMAVKKYLAAVLGKRYKQRVKNKGRRIAYL TRTRPLEQKLISEEDLAANDILDYKDDDDKV		GTTCACCTGCCGCCGGACTCAGCTTCCCTGGGATCAGACCAGAAGAAGAGGCTTACGATCAGGACGGAAA CCCGCTGCAAGACTTCTACGACTGGGACCCTCCGGGCGCAGGGAGCCCCGCCTCCGCGCTGCGTGACGCC TACGCCCTTTACTACCCAGCCGACAGGAGAGATGTCGCCCACGAAATCCTTAACGAAGCCTACCGCAAAG TCTTGGACCAGCTGTCCGCCAGGAAGTACCTGCAGTCCATGGTGGCCAGGGGCATGGGCGAGAACCTCGC CGCCGCCGCGGTGGACGACCGGGCACCCCTTACCAAACGCCACTCGGACGGCATCTTCACAGACAG	
Red=Cloning site Green=Tags(s) MTMCSGARLALLVYGIIMHNSVSCSPAAGLSFPGIRPEEEAYDQDGNPLQDFYDWDPPGAGSPASALRDA YALYYPADRRDVAHEILNEAYRKVLDQLSARKYLQSMVARGMGENLAAAAVDDRAPLTKRHSDGIFTDSY SRYRKQMAVKKYLAAVLGKRYKQRVKNKGRRIAYL TRTRPLEQKLISEEDLAANDILDYKDDDDKV			
YALYYPADRRDVAHEILNEAYRKVLDQLSARKYLQSMVARGMGENLAAAAVDDRAPLTKRHSDGIFTDSY SRYRKQMAVKKYLAAVLGKRYKQRVKNKGRRIAYL TRTRPLEQKLISEEDLAANDILDYKDDDDKV	Protein Sequence:		
		YALYYPADRRDVAHEILNEAYRKVLDQLSARKYLQSMVARGMGENLAAAAVDDRAPLTKRHSDGIFTDSY	
Restriction Sites: Sgfl-Mlul		TRTRPLEQKLISEEDLAANDILDYKDDDDKV	
	Restriction Sites:	Sgfl-Mlul	



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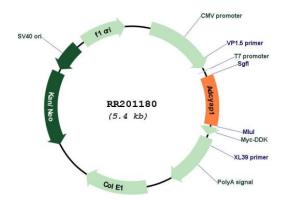


Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_016989
ORF Size:	525 bp

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	cyap1 (NM_016989) Rat Tagged ORF Clone – RR201180
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
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 Metho	 Dd: 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:	<u>NM 016989.2, NP 058685.1</u>
RefSeq Size:	1262 bp
RefSeq ORF:	528 bp
Locus ID:	24166
UniProt ID:	<u>P13589</u>
Cytogenetics:	9q38
MW:	19.6 kDa
Gene Summary:	regulatory protein that stimulates cell proliferation, induces differentiation, modulates neurotransmitter release, vasodilation, bronchodilation, and hormone release, and suppresses inflammatory responses [RGD, Feb 2006]

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