

Product datasheet for **MR201524**

Adcyap1 (NM_009625) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Adcyap1 (NM_009625) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Adcyap1
Synonyms: P; PACAP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201524 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCATGTGTAGCGGAGCAAGGCTGGCCCTGCTGGTGTATGGGATAATAATGCATAGCAGTGTCTCTCT
GTTACCTGCCGCCGACTCAGCTTCCCTGGGATCAGACCAGAAGACGAGGCTTACGACCAGGACGGAAA
CCCCTGCAAGACTTCTATGACTGGGACCCTCCCGCGTGGGGAGCCCCGCTCCGCGTGCCTGACGCT
TACGCCCTTACTATCCAGCGGACAGGAGATGTCGCCACGAAATCCTAACGAAGCCTATCGAAAAG
TCTTGGACCAGCTGTCCGCCAGGAAGTACCTGCAGTCGGTCGTGGCCAGGGCGCGGGGAGAACCTAGG
CGGCAGCGCGGTGGACGACCCGGCGCCCTTACCAAACGCCACTCGGACGGCATCTTACAGATAGCTAC
AGCCGCTACCGAAAACAAATGGCTGTCAAGAAATACTTGGCGGCCGTGCTAGGAAAAGGTATAACAGA
GGGTAAAAACAAAGGACGCCGAATAGCATACTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201524 protein sequence
Red=Cloning site Green=Tags(s)

MTMCSGARLALLVYGIIMHSSVSCSPAAGLSFPGIRPEDEAYDQDGNPLQDFYDWDPPGVGSPASALRDA
YALYYPADRRDVAHEILNEAYRKVLDQLSARKYLQSVVARGAGENLGGSAVDDPAPLTKRHSDGIFTDYSY
SRYRKQMAVKKYLA AVL GKRYKQ RVK NKG RRIAYL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_009625

ORF Size: 528 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_009625.3](#)

RefSeq Size: 2108 bp

RefSeq ORF: 528 bp

Locus ID: 11516

UniProt ID: [O70176](#)

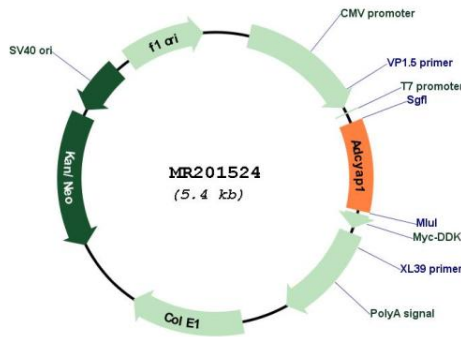
Cytogenetics: 17 E5

MW: 19.4 kDa

Gene Summary:

This gene encodes a member of the glucagon superfamily of hormones that have important roles in growth and metabolism. The encoded protein undergoes proteolytic processing to generate mature peptides that function as hypophysiotropic hormones, neurotransmitters, neuromodulators and vasoregulators. Mice lacking the encoded protein exhibit a high rate of early mortality. The surviving adult animals lacking the encoded protein exhibit decreased anxiety, hyperactive behavior and impaired steroidogenesis. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2015]

Product images:



Circular map for MR201524