

## Product datasheet for RR212189

### Adcy6 (NM\_012821) Rat Tagged ORF Clone

#### Product data:

|                          |   |
|--------------------------|---|
| Product Type:            | Expression Plasmids   |
| Product Name:            | Adcy6 (NM_012821) Rat Tagged ORF Clone                                      |
| Tag:                     | Myc-DDK   |
| Symbol:                  | Adcy6   |
| Synonyms:                | AC6; ACVI; ADCYB  |
| Vector:                  | pCMV6-Entry (PS100001)  |
| E. coli Selection:       | Kanamycin (25 ug/mL)  |
| Cell Selection:          | Neomycin  |
| ORF Nucleotide Sequence: | >RR212189 representing NM_012821<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCATGGTTTAGCGGCCTCCTGGTCCCAAAGTGGATGAACGGAAAACAGCCTGGGGCGAACGCAATG  
GACAGAAGCGCCACGCCAGGCGACCCGAGCCCGTGGCTTCTGCGCGCCCGCTACATGAGCTGCCTCAA  
GAATGTGGAGCCACCCAGCCCACTCCTGCAGCTCGACTCGGTGCCCTGGCAGGATGAAGCCTTCATC  
AGGAGGGCTGGCCCGGAAGGGGTGTGAAGCTGGGGCTGCGGTCACTGGCCTTGGGTTTTGATGACTG  
AGGTGACCACACCGATGGGGACAGCTGAAGTGGCACCCGACACATCGCCTCGAAGCGGTCCGTCCTGCTG  
GCACCGGCTAGCGCAGGTGTTCCAGTCTAAGCAGTTCCGCTCCGCCAAGCTGGAGCGTCTGTACCAGCGG  
TACTTCTCCAGATGAACCAGAGCAGCCTCAGCTGCTCATGGCGGTGCTTGTGCTCCTCATGGCTGTAC  
TGTTGACCTCCACGCCGCGCCTGCCCTGCCTCAGCCTGCTTATGTGGCCCTGCTGACCTGTGCCTCCGT  
CCTTTTGTGGTACTCATGGTAGTGTGAACCGACATAGCTTCCGCCAGGACTCCATGTGGGTAGTGAGC  
TATGTGGTCTGGGCATCCTAGCAGCCGTGCAAGTGGGGGTGCCCTGGCAGCAACCCACGAGCCCT  
CAGCAGGCCTTTGGTCCCGTGTCTTCTGCTACATCACACTTCTTCCATTCCGATGCGGAGC  
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CCCTTCTTTGGAAGCAGCTCGGTGCTAACGTGGTGTCTTCTGTGCACCAATGCCATCCGTGTCTGCA  
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GCACCTTGAGCATGAGAATCGACAGCAGGAACGGCTGCTGCTGCTCGGTGTTGCCAGCATGTTGCCATG  
GAAATGAAAGAGGATATCAACACAAAAAGGAAGACATGATGTTCCACAAGATTTACATCCAGAAGCATG  
ACAATGTCAGCATCCTGTTTCCGACATCGAGGGCTTACCAGCCTGGCCTCCAGTGCCTGCCAGGA  
ACTGGTCATGACCTTGAATGAGCTCTTTCGCCGTTTCGACAAGCTGGCTGCGGAGAATCACTGTCTGAGG  
ATCAAGATCTTAGGAGACTGTTACTACTGTGTGTCGGGGCTGCCGAGGCCGGGCGAGACCATGCCCACT  
GCTGTGTGGAGATGGGGGTAGACATGATCGAGGCCATCTCGCTGGTGCCTGAGGTAAACGGGTGTAATGT  
GAACATGCGCGTGGGCATCCACAGCGGGCGTGTACTGCGGTGTCTTGGTCTGCGGAAATGGCAGTTT  
GATGTCTGGTCCAACGATGTGACCCTGGCCAACCATGGAGGCGGGGGCCGGCCGGCCGATCCACA



TCACTCGGGCCACACTGCAGTACCTGAACGGGGACTATGAGGTGGAGCCAGGCCGTGGCGGTGAGCGCAA  
CGGCTACCTCAAGGAGCAGTGCATTGAGACCTTCTCATACTAGGAGCCAGCCAGAAACGGAAAGAGGAG  
AAGGCCATGCTGGTCAAGCTGCAGCGGACGCGGGCCAACCTCCATGGAAGGACTGATGCCCGCTGGGTT  
CTGACCGTGCCTTCTCCCGACCAAGGACTCTAAGGCATTCGACAGATGGGCATCGATGACTCTAGCAA  
AGAGAACC GGGGTGCCAAGATGCTCTGAACCTGAGGATGAGGTGGACGAGTTTCTGGGCCGAGCCATC  
GATGCCCGAAGCATCGACCAGCTGCGTAAGGACCATGTGCGCCGGTTCTGCTCACCTCCAGAGGGAGG  
ATCTCGAGAAGAAGTATTCACGGAAAGTAGACCCTCGTTTCGGAGCCTACGTCGCTGTGCCCTCTGGT  
TTTCTGCTTCATCTGTTTCATCCAGTTCCTCGTATTCACACTCCGCCCTGATACTCGGGATTTATGCC  
GGGATCTTCTTTTGTGCTGCTGGTACCCTGCTCATCTGTGCTGTGCTCCTGTGGGTCTTTCTCCCA  
ACGCCCTGCAGCGCTGTCCCGCAGTATCGTCCGCTCACGGGTGCACAGCACGGCTGTTGGAGTCTTCTC  
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GCGGCCCGGATGCTGAACCTAACACCGTCCGATGTACCCTGTCACCTACGACAGATCAATTACTCTC  
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AGATGGAGGAGTTGCAGGCCTACAACCGCGGCTGCTGCATAACATCCTTCCCAAGGACGTGGCTGCCCA  
CTTCTGGCCCGGGAGCGCCGCAACGACGAGCTGTACTACCAATCCTGCGAGTGCCTGGCTGTATGTTT  
GCCTCCATCGCCAACCTTCTGAGTCTATGTGGAAGTGGAGGCAACAATGAGGGCGTGGAGTGCCTGC  
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CGCTCGCACATCACCGCCCTGGCAGACTACGCCATGCGGCTTATGGAGCAAATGAAACACATCAACGAAC  
ACTCTTTCAACAACCTCCAGATGAAGATCGGGTTGAACATGGGTCCGGTTGTAGCAGGTGTCATTGGGGC  
CCGGAAGCCACAGTATGACATCTGGGAAACACGGTGAATGTTTCCAGCCGTATGGACAGCACAGGAGTT  
CCTGACCGAATACAGGTGACCACGGATCTTACCAGGTTCTAGCTGCCAAGGGCTACCAACTGGAGTGTC  
GAGGGGTGGTCAAGGTGAAGGAAAGGGGGAGATGACCACCTACTTCTCAATGGGGCCCCAGCAGT

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR212189 representing NM\_012821  
 Red=Cloning site Green=Tags(s)

MSWFSGLLVPKVDERKTAWGERNGQKRPRQATRARGFCAPRYMSCLKNVEPPSPTPAARTRCPWQDEAFI  
 RRAGPGRGVKGLRSVALGFDDTEVTPMGTAEVAPDTSRSGPSCWHRLAQVFQSKQFRSAKLERLYQR  
 YFFQMNQSSLTLLMAVLVLLMAVLLTFHAAPALPQPAYVALLTCASVLFVVLVVVNCNRHSFRQDSMWWVS  
 YVVLGILAAVQVGGALANPRSPSAGLWCPVFFVYITYTLLPIRMRAAVLSGLGLSTLHLILAWHLNNGD  
 PFLWKQLGANVVLFLCTNAIGVCTHYPAEVSQRQAFQETRGIQARLHLQHENRQERLLL SVLPQHVM  
 EMKEDINTKKEDMMFHKIYIQKHDNVSILFADIEGFTSLASQCTAQELVMTLNELFARFDKLAENHCLR  
 IKILGDCYCVSGLPEARADHAHCCVEMGVDMIEAISLVREVTGVNVMRVGIHSGRVHCVGLGRKWF  
 DVWSDVTLANHMEAGGRAGRIHITRATLQYLNQDYEVEPGRGGERNGLKEQCIETFLILGASQKRKEE  
 KAMLVKLQRTRANSMEGLMPRWVPDRAF SRTKDSKAFRQMGIDSSKENRGAQDALNPEDEVDFLGRAI  
 DARSIDQLRKDHVRRFLTFQREDLEKKYSRKVDPRFGAYVACALLVFCFCFIQFLVFPHSALILGIYA  
 GIFLLLLVTVLICAVSCGSFFPNALQRLSRISVRSRVHSTAVGVFVLLVFI SAIANMFTCSHTPLRTC  
 AARMLNLTPSDVTACHLRQINYSLGLEAPLCEGTAPTCSFPEYFVGSVLLSLLASSVFLHISSIGKLVMT  
 FVLGFIYLLLLLLGPPATIFDNYDLLLSVHGLASSNETFDGLDCPAVGRVALKYMPVILLVFALALYLH  
 AQQVESTARLDFLWKLQATGEKEEMEELQAYNRLLHNILPKDVAHFARERRNDELYQSECEVAMF  
 ASIANFSEFYVELEANNEGVECLRLNEIIADFEIISEERFRQLEKIKTIGSTYMAASGLNASTYDQVG  
 RSHITALADYAMRLMEQMKHINEHSFNFMKIGLNMGPVVAGVIGARKPQYDIWNTVNVSSRMDSTGV  
 PDRIQVTTDLVQLAAKGYQLECRGVVVKVKGKGMETTYFLNNGPSS

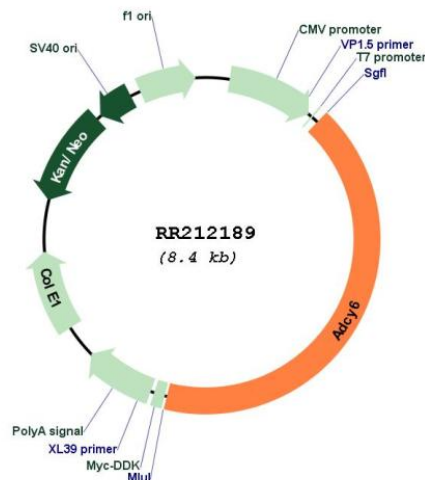
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_012821

**ORF Size:** 3498 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\\_012821.4](#), [NP\\_036953.4](#)

**RefSeq Size:** 5927 bp

**RefSeq ORF:** 3501 bp

**Locus ID:** 25289

**UniProt ID:** [Q03343](#)

**Cytogenetics:** 7q36

**MW:** 130.5 kDa

**Gene Summary:** may play a role in intracellular signaling [RGD, Feb 2006]