

## Product datasheet for MR231592

### Adcy9 (NM\_001291910) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Adcy9 (NM\_001291910) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Adcy9  
**Synonyms:** AC9; ACtp10; AW125421; D16Wsu65e; mKIAA0520  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR231592 representing NM\_001291910  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCAGTTACCTCTGTACCTGAGCTTGTTTTGGGGTGGTCTATTCTGTCTTTTTGAGACCTTCGGCT  
 ACCACTTCGAAACGAAGACTGTACCTTCTCCGGGCCCTGGGGCCCTGCACTGGGAGCTGCTGAGCAG  
 AGCCCTGCTTCAGTGTGCATTCAGCTATCGGGATCCATCTGTTTGTCATGTCTCAGGTGAGGTCCAGG  
 AGCACCTTCTCAAGGTGGGACAATCCATTATGCACGGCAAAGATCTGGAAGTAGAGAAAGCCCTGAAAG  
 AGAGGATGATTCAATTCAGTGATGCCAAGAATCATAGCCGACGACTTAATGAAACAAGGGGACGAGGAGAG  
 TGAGAATCCGTC AAGAGGCATGCCACCTCCAGTCCCAAGAACAGGAAGAAGAAGTCTCCATACAGAAG  
 GCACCGATAGCATTCCGCCCTTAAAGATGCAGCAGATTGAAGAAGTCAATTTTTATTTGCAGACATTG  
 TGGGTTTACCAAGATGAGCGCCAACAAATCTGCGCATGCCTTGGTAGGCCTACTCAATGACCTGTTTCGG  
 TCGCTTTGACCGCCTGTGTGAGCAGACCAAGTGTGAGAAGATCAGCACTCTGGGGACTGTTATTACTGT  
 GTGGCAGGGTGTCCGGAGCCCCGGGCAGACCATGCCTACTGTGCATTGAAATGGGCTTAGGCATGATAA  
 AAGCCATCGAGCAGTTCTGCCAGGAGAAGAAAGAGATGGTGAACATGCGTGTGGGTTTACACGGGGGAC  
 TGTCTGTGTGGCATCCTGGGCATGAGGAGGTTTTAAATTTGATGTGTGGTCCAACGATGTGAACCTTGCT  
 AATCTCATGGAGCAGCTGGGAGTGGCTGGCAAAGTTCACATATCTGAGGCCACTGCAAAAATACTTAGACG  
 ACAGGTATGAAATGGAAGATGGGAGAGTTATTGAGCGCCTTGGGCAGAGTGTGGTGGCTGACCAGTTGAA  
 AGGTTTGAAGACATACCTGATATCGGGTCAGAGAGCCAAGGAGTCCCACTGCAGCTGTGCAGAGGCCCTG  
 CTTTCTGGCTTTGAGGTCAATGACGACTCACGGGAGTCTCAGGCCCTAGGGGACAGGGGACAGCATCGC  
 CAGGGAGTGTGATGATTTGGCGCAGAGTGTCAAACCTTTGATAACCTTAAGACTTGCCCTTCTGTGG  
 AATCACATTTGCTCCAAATCTGAAGCTGGTGCAGAAGGAGGAAGTGTGAAAATGGCTGTCAAGACGAG  
 CCTAAGACCAGCACCAAGGCTTCTGGAGGACCAACTCCAAAACCCAGAATGGACTTCTGAGCCCTCCTG  
 CAGAGGAGAAGCTCACTAACAGCCAGACCTCCCTCTGTGAGATCCTGCAAGAGAAGGGACGGTGGGCAGG  
 GGTGAGCTTGACCAGTCAAGCCCTCCTCCCGCTCAGGTTCAAGAACATCCGTGAGAAAAGTGTGCCAC  
 TTTGTTGATGTATCAAAGAAGACAGCCTGATGAAAGATTATTTCTTCAAGCCGCCCATCAATCAGTTCA



[View online »](#)

GCCTGAACCTCCTGGACCAGGAGCTGGAGCGATCATATAGAACCAGCTACCAGGAAGAGGTCATAAAGAA  
 TTCTCCTGTGAAGACGTTTCGCCAGTGCCACCTTCAGCTCCCTTCTGGATGTGTTTCTGTCAACCACCGTG  
 TTCTTGATTCTCTCCATCACCTGCTTCTAAAGTATGGAGCCACCGCCACCCCTCCCCACCGGCTGCC  
 TGGCCGCTTTGGTGCAGACCTGCTGCTGGAGGTGCTTCCCTCATAGTGTCCATCAGAATGGTGTTTTT  
 CCTAGAGGATGTCATGACATGCACAAAGTGGTTGCTGGAATGGATCGCTGGCTGGCTCCCTCGCCACTGC  
 ATTTGGGCAATCTGGTGTCTCTTCTGCCCTGGCTGTCTATTACACATCACCTCTGAGTTTGAGACCA  
 ACATACATGTTACCATGTTCACTGGCTGCGGTGCTGGTGGCCGTTGTGCACTACTGTAACCTTCTGCCA  
 GCTCAGCTCTGGATGAGGTCTCCCTTGCACCATCGTGGGGGCTGGGCTGCTGCTTCTGCTCCACATC  
 TCCTGTGTGACAGGACAGTTCCATTGTGATGTCCCCCTTGGACTCAGCACAGAATTCAGTGCCAGAGGA  
 ACCCATGCAACAGCTCAGTGCTGCAGGACGGCAGGAGGCCGCCAGCCTCATAGGCAAGGAGCTTATCCT  
 CACCTTCTTCTCCTGCTCCTTGGTCTGGTTCCTGAACCGGGAGTTCGAGGTGAGTACCAGGCTGCAC  
 TACCATGGGATGTGGAGGCCGACTACACCGACCAAGATCCAGAGCATGAGAGACCAGGCTGACTGGC  
 TACTGCGAACATCATCCCCTACCATGTGGCTGAGCAGCTCAAGGTCTCTCAGACCTACTCCAAGAACCA  
 TGACAGCGGGGAGTCATCTTCCAGCATTGTCAACTTCAGTGAATTCTATGAGGAGAACTATGAGGGG  
 GGCAAGGAGTGCTACCGTGTCTCAACGAGCTGATCGGTGACTTCGATGAGCTCTTGAGCAAGCCGACT  
 ATAATAGCATCGAGAAGATCAAGACCATCGGGGCCACATACATGGCAGCCTCAGGCTGAACACGGCCCA  
 GTGTCAGGAGGGTGGCCACCCACAGGAGCATCTGCGTATCCTCTTCGAGTTCGCCAAGGAGATGATGCGC  
 GTGGTGGATGACTTCAACAACAATATGTTATGGTTCAACTTCAAGCTCAGGGTCGGCTTTAACCCAGGAC  
 CCCTCACAGCAGGTGTCATAGGTACCACCAAGTGTGTATGACATCTGGGGGACACCGTCAACATCGC  
 CAGCAGGATGGACACCACTGGTGTGGAGTGCCGTATCCAGGTGAGCGAAGAGAGCTACCGTGTGCTGAGC  
 AAGATGGGTTATGACTTTGACTACCGAGGGACCGTGAATGTCAAGGGGAAAGGGCAGATGAAGACCTACC  
 TTTACCAAAGTGCACGGACAATGGAGTGGTTCCCCAGCACCAGCTGTCCATCTCCCAGACATCCGAGT  
 CCAGGTGGACGGCAGCATTGGGCGGTCTCCCACAGATGAGATTGCCAATTGGTGCCTTCGTTCCGATAT  
 TCGGACAAGGCTTCCCTGGGATCTGATGATAGCACACAGGCTAAGGAAGCTCGCCTGTCTCTAAGAGGT  
 CCTGGAGAGAGCCAGTCAAAGCAGAGGAAAGGTTTCCATTTGGCAAAGCCATAGAAAAGGACAGCTGTGA  
 AGACATAGGAGTAGAAGAGGCCAGTGAACCTCAGCAAGCTCAATGTCTCAAAGAGTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR231592 representing NM\_001291910  
 Red=Cloning site Green=Tags(s)

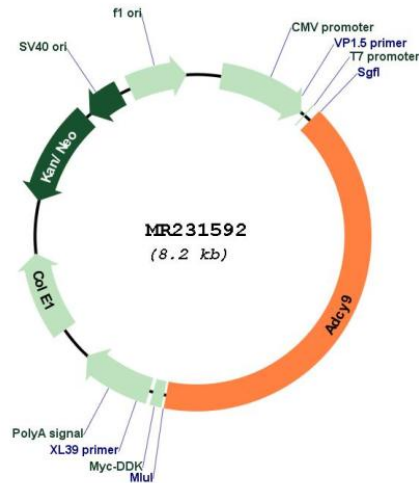
MQLPLYLSLFLGVVYVSLFETFGYHFRNEDCYPSPGPGALHWELLSRALLHVCIHAIIGIHLFVMSQVRSR  
 STFLKVGQSIMHGKDLVEKALKERMIHVSMPRIIADDLMKQGDEESENSVKRHATSSPKNRKKKSSIQK  
 APIAFRPFKMQQIEEVSILFADIVGFTKMSANKSAHALVGLLNDLFRGFRDLCEQTKCEKISTLGDCCYYC  
 VAGCPEPRADHAYCCIEMLGMKAIIEQFCQEKEMVNMVRVGHVHTVLCGILGMRRFKFDVWSNDVNLA  
 NLMEQLGVAGKVHISEATAKYLLDDRYEMEDGRVIERLQGSVVADQLKGLKTYLISGQRAKESHCSAEAL  
 LSGFEVIDDSRESSGPRQGTASPGSVSDLAQTVKTFDNLKTCPCSGITFAPKSEAGAEGTVQNGCQDE  
 PKTSTKASGGPNSKTQNGLLSPPAEEKLTNSQTSLEILQEKGRWAGVSLDQSALLPLRFKNIREKTDHAH  
 FVDVIKEDSLMKDYFFKPPINQFSLNFLDQELERSYRYSYQEEVINKNSPVKTFASATFSSLLDVFLSTTV  
 FLILSITCFLKYGATATPPPAALAVFGADLLLEVLIVSIRMVFFLEDVMTCTKWLLEWIAGWLPKHC  
 IGAILVSLPALAVYSHITSEFETNIHVMTFTGSAVLVAVVHYCNFCQLSSWMRSSLATIVGAGLLLLLHI  
 SLCQDSSIVMSPLDSAQNFSAQRNPNCSVLDQRRPASLIGKELILTFLLLLLVWFLNREFEVSRYRLH  
 YHGDVEADLHRTKIQSMRDQADWLLRNIIPYHVAEQLKVSQTYSKNHDSGGVIFASIVNFSEFYEENYEG  
 GKECYRVLNELIGDFDELLSKPDYNSIEKIKTIGATYMAASGLNTAQCQEGGHPQEHLRILFEFAKEMMR  
 VVDDFNMMMLWFNFKLRVGFNHGPLTAGVIGTTKLLYDIWGDVNIASRMDTTGVECRIQVSEESYRVL  
 KMGYDFDYRGTVNVKKGQMKTYLYPKCTDNGVVPQHQLSISPDIRVQVDGSIGRSPTDEIANLVPSVQY  
 SDKASLGSDDSTQAKEARLSSKRSWREPVAEERFPFGKAIKDSCEDIGVEEASELSKLNVSXSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


ACCN: NM\_001291910

ORF Size: 3348 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001291910.1, NP_001278839.1</u>
<b>RefSeq Size:</b>	7632 bp
<b>RefSeq ORF:</b>	3351 bp
<b>Locus ID:</b>	11515
<b>Cytogenetics:</b>	16 2.42 cM
<b>MW:</b>	124.8 kDa
<b>Gene Summary:</b>	Adenylyl cyclase that catalyzes the formation of the signaling molecule cAMP in response to activation of G protein-coupled receptors. Contributes to signaling cascades activated by CRH (corticotropin-releasing factor), corticosteroids and by beta-adrenergic receptors. [UniProtKB/Swiss-Prot Function]