

Product datasheet for **RC239444**

ADCY7 (NM_001286057) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADCY7 (NM_001286057) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADCY7
Synonyms:	AC7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

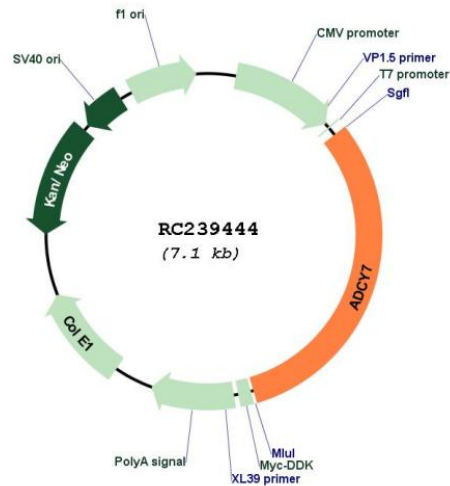
ORF Nucleotide Sequence:

>RC239444 representing NM_001286057
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGCCAAGGGGCGCTACTTCTCAACGAGGGCGAGGAGGGCCCTGACCAAGATGCGCTCTACGAGA
 AGTACCAGCTCACCAGCCAGCATGGGCCGCTGCTGCTCACGCTCCTGCTGGTGGCCGCCACTGCCTGCGT
 GGCCCTCATCATATTGCCCTCAGCCAGGGGACCCCTCCAGACACCAGGCCATTCTGGGCATGGCGTTC
 CTGGTGTGGCGGTGTTTGGCGCCCTCTCTGTGCTGATGTACGTCGAGTGTCTCCTGCGGCGCTGGCTCA
 GGGCCTTGGCGTGTCACTGGGCTGCTTGGTGGCGTGGGCTATGTGCTGGTGTTCGACGCATGGAC
 AAAGGCGGCTGTGCGTGGGAGCAGGTGCCCTTCTTCTGTTTATTGCTTTCGTGGTGTACACACTACTG
 CCCTTCAGCATGCGGGGCGCTGTCGCCGTTGGGGCCGCTCCACTGCCTCCACCTCCTGGTGTGCGTT
 CTTTGATGGGAGGCTTACGACACCCAGTGTCCGGTGGGGCTGCAGCTGCTGGCCAACGCAGTCATCTT
 CCTGTGTGGGAACCTGACAGGCCCTTCCACAAGCACC AATGCAGGATGCGTCCGGGACCTCTTACC
 TACACTGTGAAGTGCATCCAGATCCGCCGAAGCTGCGCATCGAGAAGGCCAGCAGGAGAACCTGCTGC
 TGTCAAGTCTCCGGCCACATCTCCATGGGCATGAAGCTGGCCATCATCGAACGGCTCAAGGAGCATGG
 TGACCGTGCCTGCATGCCTGACAACAATTCCACAGCCTTACGTCAGAGGACCCAGAAATGTCAGCATC
 CTCTATGCGGACATCGTGGGCTTACGCAGCTGGCCAGCGACTGTTCTCCCAAGGAGCTGGTGGTGGTGC
 TGAATGAGCTCTTTGGCAAGTTCGACCAGATCGCCAAGGCCAACGAGTGCATGCGAATCAAGATCCTCGG
 CGACTGCTACTACTGTGTATCGGGCTGCCCGTGTGCTGCTACCCACGCCCGAACTGCGTGAAGATG
 GGGCTGGACATGTGCCAGGCCATCAAGCAGGTGCGGGAGGCCACGGGCGTGGACATCAACATGCGTGTGG
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 CCAACGGGCGGAGGCCTAAGAGCGTTCCCGAGCCACCAGCCGACCCAGACAGAAGCATGTCCCCCAA
 GGGGCGGTGGAGGATGACTCGTACGATGACGAGATGCTGTGAGCATTGAGGGGCTCAGCTCCACGAGG
 CCCTGCTGCTCCAAGTCCGATGACTTCTACACCTTTGGTCCATCTTCTGGAGAAGGGCTTTGAGCGCG
 AGTACCGCTGGCACCCATCCCGGGCCGCCAGCATTGCTGCGCCAGCCTGATCTTCTGCTGTCAT
 CCTGCTCGTCCATGTCCTGCTCATGCCAGGACGGCGGCACTGGGTGTGTCCTTCCGGGCTGGTGGCTGT
 GTACTGGGCTGGTGTGGGCTGTGCTTTGCCACCAAGTTCTCGAGGTGCTGCCAGCTCGGGGACGC
 TCTGCACTATCTGAGAGGGTGGAGACACAGCCCTGCTGAGGCTGACCCTGGCCGCTGACCATCGG
 CAGCCTGCTCACTGTGGCCATCATCAACCTGCCCTGATGCCCTTCCAAGTTCAGAGCTGCCTGTTGGC
 AATGAGACAGGCCTACTGGCCGAGCAGCAAGACAGCCCTGTGTGAGCCCTCCCGCACCTGCATA
 CTGTTTTTTCCCGTTAAATGAGCTCACTTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Plasmid Map:


ACCN: NM_001286057

ORF Size: 2202 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_001286057.1](#), [NP_001272986.1](#)

RefSeq Size: 2582 bp

RefSeq ORF: 2205 bp

Locus ID: 113

Cytogenetics:	16q12.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Calcium signaling pathway, Chemokine signaling pathway, Dilated cardiomyopathy, Gap junction, GnRH signaling pathway, Melanogenesis, Oocyte meiosis, Progesterone-mediated oocyte maturation, Purine metabolism, Vascular smooth muscle contraction
MW:	81.9 kDa
Gene Summary:	This gene encodes a membrane-bound adenylate cyclase that catalyses the formation of cyclic AMP from ATP and is inhibitable by calcium. The product of this gene is a member of the adenylyl cyclase class-4/guanylyl cyclase enzyme family that is characterized by the presence of twelve membrane-spanning domains in its sequences. Several transcript variants have been observed for this gene, but the full-length natures of only two have been determined so far. [provided by RefSeq, Oct 2013]