

Product datasheet for **SC315194**

ADCY6 (NM_020983) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADCY6 (NM_020983) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADCY6
Synonyms:	AC6; LCCS8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315194 representing NM_020983. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**
ATGTCATGGTTT**AGTGGCCTCCTGGTCCCTAAAGTGGATGAACGGAAAACAGCCTGGGGTGAACGCAAT**
GGGCAGAAAGCGTTCGCGGCGCCGTGGCACTCGGGCAGGTGGCTTCTGCACGCCCCGCTATATGAGCTGC
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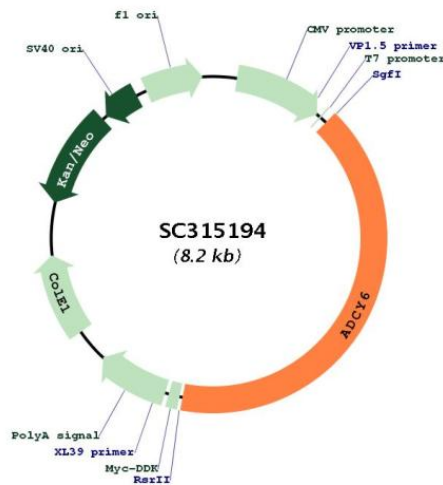


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 TCCATGGAAGGGCTGATGCCGCGCTGGTTCTGATCGTGCTTCTCCCGGACCAAGGACTCCAAGGCC
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Restriction Sites:

SgfI-RsrII

Plasmid Map:



ACCN:

NM_020983

Insert Size:

3348 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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_020983.2
RefSeq Size:	5877 bp
RefSeq ORF:	3348 bp
Locus ID:	112
Cytogenetics:	12q13.12
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Chemokine signaling pathway, Dilated cardiomyopathy, Gap junction, GnRH signaling pathway, Melanogenesis, Oocyte meiosis, Progesterone-mediated oocyte maturation, Purine metabolism, Taste transduction, Vascular smooth muscle contraction
MW:	124.9 kDa
Gene Summary:	<p>This gene encodes a member of the adenylyl cyclase family of proteins, which are required for the synthesis of cyclic AMP. All members of this family have an intracellular N-terminus, a tandem repeat of six transmembrane domains separated by a cytoplasmic loop, and a C-terminal cytoplasmic domain. The two cytoplasmic regions bind ATP and form the catalytic core of the protein. Adenylyl cyclases are important effectors of transmembrane signaling pathways and are regulated by the activity of G protein coupled receptor signaling. This protein belongs to a small subclass of adenylyl cyclase proteins that are functionally related and are inhibited by protein kinase A, calcium ions and nitric oxide. A mutation in this gene is associated with arthrogyriposis multiplex congenita. [provided by RefSeq, May 2015]</p> <p>Transcript Variant: This variant (2) has a different and shorter 5' UTR and lacks an in-frame fragment of 159 bp in the coding region, as compared to variant 1. Isoform b encoded by this variant has the same N- and C- termini as isoform a encoded by variant 1, but lacks internal 53 aa.</p>