

Product datasheet for **SC331333**

ADCY5 (NM_001199642) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADCY5 (NM_001199642) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADCY5
Synonyms:	AC5; FDFM
Vector:	pCMV6-Entry (PS100001)



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Fully Sequenced ORF: >SC331333 representing NM_001199642.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGAAGTCTCAGAAAGAGGGCTGTTGCAGCAGAGGTGACCTGTCCATTAGACAGGTCTGGAGGAGAA
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Restriction Sites: SgfI-RsrII
ACCN: NM_001199642
Insert Size: 2736 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).
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_001199642.1
RefSeq Size:	5123 bp
RefSeq ORF:	2736 bp
Locus ID:	111
UniProt ID:	O95622
Cytogenetics:	3q21.1
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, Vascular smooth muscle contraction
MW:	102.6 kDa
Gene Summary:	<p>This gene encodes a member of the membrane-bound adenylyl cyclase enzymes. Adenylyl cyclases mediate G protein-coupled receptor signaling through the synthesis of the second messenger cAMP. Activity of the encoded protein is stimulated by the Gs alpha subunit of G protein-coupled receptors and is inhibited by protein kinase A, calcium and Gi alpha subunits. Single nucleotide polymorphisms in this gene may be associated with low birth weight and type 2 diabetes. Alternatively spliced transcript variants that encode different isoforms have been observed for this gene. [provided by RefSeq, Dec 2010]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>