

## Product datasheet for **SC335456**

### Adenylate cyclase 1 (ADCY1) (NM\_001281768) Human Untagged Clone

#### Product data:

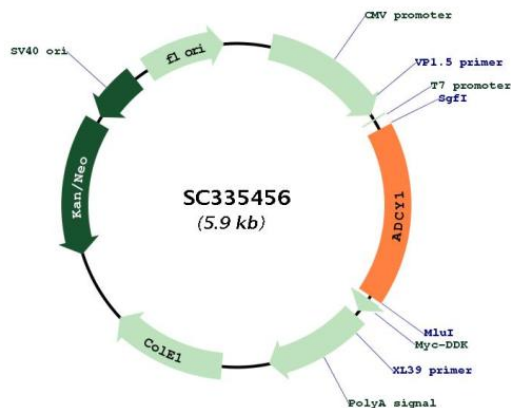
Product Type:	Expression Plasmids
Product Name:	Adenylate cyclase 1 (ADCY1) (NM_001281768) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADCY1
Synonyms:	AC1; DFNB44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335456 representing NM_001281768. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG  
GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**  
ATGTATGGGGTCTTTGTGCGGATTCTGACTGAGCGTTCACAGAGGAAGGCGTTCTGCAGGCCCGGAGC  
TGCATTGAGGACCGACTGAGGCTGGAGGATGAGAACGAGAAGCAGGAGCGGCTCCTCATGAGCCTCCTG  
CCCCGGAACGTTGCCATGGAGATGAAGGAGGACTTCTGAAGCCCCCTGAGAGGATTTCCACAAGATT  
TACATCCAGAGGCACGACAATGTGAGCATCCTGTTTGTGACATCGTGGGTTTCACGGGCTTGGCATCC  
CAGTGCACAGCCCAGGAGCTGGTAAACTCCTCAATGAGCTCTTCGGCAAGTTCGATGAATTAGCCACG  
GAGAACCCTGTGCCGATCAAGATTCTCGGGGACTGCTACTACTGCGTGTCCGGCCTCACCCAGCCC  
AAGACTGACCATGCCACTGCTGTGTGGAGATGGGACTCGACATGATTGATACCATCACATCTGTGGCT  
GAAGCCACCGAGGTGGATCTGAACATGCGTGTGGGCTGCACACGGGCAGGGTCCCTGTGGTGTCTG  
GGCTTGGCCAAGTGGCAGTACGACGTGTGGTCCAATGATGTGACCTTGGCCAATGTATGGAAGCCGCT  
GGCCTGCCAGGGAAGGTTTCATATCACAAGACGACCCTAGCGTGTGAAATGGGGACTACGAGGTAGAA  
CCGGGTTACGGACATGAGAGGAACAGTTTCTTGAAAACCTATAACATCGAAACCTTTTTTATTGTGCCA  
TCCCATCGCCGAAAGATATTTCCAGGCCCTGATTCTCTCAGATATAAAACCGGCCAAAAGGATGAAGTTC  
AAGACTGTCTGCTACCTGCTGGTGCAGCTCATGCACTGCCGAAAAATGTTCAAGGCCGAGATCCCCTTC  
TCCAATGTCATGACCTGCGAGGACGATGACAAGTTTCAGATCCATCCCTCACTGAGTGGCCTGGATGTC  
CTCCTGGGGTTTTGGTCTCCACCTGCAACGGGGACGACTGTGCACGT**AG**  
**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001281768

**Insert Size:** 1017 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:**

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\\_001281768.1](#)

**RefSeq Size:** 1763 bp

**RefSeq ORF:** 1017 bp

**Locus ID:** 107

**Cytogenetics:** 7p12.3

**Protein Families:** Druggable Genome, Transmembrane

<b>Protein Pathways:</b>	Calcium signaling pathway, Chemokine signaling pathway, Dilated cardiomyopathy, Gap junction, GnRH signaling pathway, Long-term potentiation, Melanogenesis, Oocyte meiosis, Progesterone-mediated oocyte maturation, Purine metabolism, Vascular smooth muscle contraction
<b>MW:</b>	38.7 kDa
<b>Gene Summary:</b>	<p>This gene encodes a member of the of adenylate cyclase gene family that is primarily expressed in the brain. This protein is regulated by calcium/calmodulin concentration and may be involved in brain development. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]</p> <p>Transcript Variant: This variant (2) differs in the 5' and 3' UTR and has multiple differences in the coding region compared to variant 1. The encoded isoform (2) has a shorter N-terminus and a distinct C-terminus, compared to isoform 1.</p>