

Product datasheet for SC128073

ADCY2 (NM_020546) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADCY2 (NM_020546) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADCY2
Synonyms:	AC2; HBAC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC128073 representing NM_020546. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGGCAGGAGGCGATGCGGCGCCGCCCTACCTGCGGGACCGCTCCGAGGAGGCGGGCGCGGGA
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TTTGCACACCTACATCACAGGGACAGCATGACCACAGAGAACGGCAAGATCAGCACCACGGATGTACCC
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Restriction Sites:

SgfI-MluI

ACCN:

NM_020546

Insert Size:

3276 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_020546.2](#)

RefSeq Size:	6553 bp
RefSeq ORF:	3276 bp
Locus ID:	108
UniProt ID:	Q08462
Cytogenetics:	5p15.31
Domains:	CYCc
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:	123.6 kDa
Gene Summary:	This gene encodes a member of the family of adenylate cyclases, which are membrane-associated enzymes that catalyze the formation of the secondary messenger cyclic adenosine monophosphate (cAMP). This enzyme is insensitive to Ca(2+)/calmodulin, and is stimulated by the G protein beta and gamma subunit complex. [provided by RefSeq, Jul 2008]