

Product datasheet for **RG222444**

ADCY2 (NM_020546) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADCY2 (NM_020546) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADCY2
Synonyms:	AC2; HBAC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222444 representing NM_020546 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCAGGAGGCGATGCGGGCCGCCGCTACCTGCGGGACCGCTCCGAGGAGGCGGGGGCGGGGAG
ACGGGCTGCCGGTCCCGGACTGGCTCTACGAGTCTACTACTGCATGAGCCAGCAGCACCCGCTCAT
CGTCTTCTGCTGCTCATCGTCATGGGCTCCTGCCTCGCCCTGCTCGCCGCTTCTTCGCGCTCGGGCTG
GAAGTTGAAGACCATGTGGCTTCTAATAACAGTTCCAACCTGCCCTGGCGATTTCTTTGCGATATTTA
TCCTGGTCTGCATCGAGTCTGTGTTAAGAAGCTGCTGCGCCTCTCTCGTTGGTGATATGGATATGCCT
TGTTGCCATGGGATACCTGTTTATGTGTTTTGGAGGCACCGTCTCTCCCTGGGACCAGGTATCGTTCTTC
CTTTCATCATCTTCGTGTTGTACACCATGCTGCCCTTCAACATGCGAGACGCCATCATTGCCAGCGTCC
TCACCTCCTCCTCCACACCATCGTGCTTAGCGTCTGCCTGTCTGCAACACCGGGAGGCAAGGAGCACCT
GGTCTGGCAGATCCTGGCCAATGTGATCATTTTCATCTGTGGAACTGGCGGGAGCCTACCATAAGCAC
CTCATGGAACCGCTCTCAGCAACATATCAGGACACCTGTAATTGCATCAAGTCGCGGATCAAGTTGG
AATTTGAAAAACGTCAACAGGAGCGGCTTCTGCTCTCCCTGCTGCCGGCCACATCGCCATGGAGATGAA
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GGAGAATGAATGCATGAGAATTAATAATTTAGGAGACTGCTACTACTGTGTATCTGGACTCCCTATATCT
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GGGAGAACGACGGAGCCCCAGCATCTTTCAGACCTCGCCACACCTTGATGGAGCCAAAATGAGGGCC



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TCGGTCCGCATGACCCGGTACTTGGAGTCTGGGGGCGAGCCAAGCCCTTGCACACCTACATCACAGGG
 ACAGCATGACCACAGAGAACGGCAAGATCAGCACCACGGATGTACCCATGGGTGAGCATAATTTTCAAAA
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 CAGACCCTCGGATACACGTGCACCTGTGAGGAATAATCAACGTGAAAGGAAAGGGGACCTGAAGACGT
 ACTTTGTAACACAGAAATGTCAAGTCCCTTTCCAGAGCAACGTGGCATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG222444 representing NM_020546

Red=Cloning site Green=Tags(s)

MWQEMRRRRYLDRSEEAAGGGDGLPRSRDWLYESYYCMSQQHPLIVFLLLIVMGSLALLAVFFALGL
 EVEDHVAFLITVPTALAIFFAIFILVCIESVFKLLRFLSLVIWICLVAMGYLFMCFGGTVSPWDQVSFF
 LFIIFVLYTMLPFNMRDAIIASVLTSSSHTIVLSVCLSATPGGKEHLVWQILANVIFICGNLAGAYHKK
 LMELALQQTYQDTCNCIKSRIKLEFEKRQERLLL SLLPAHIAMEMKAEIIQRLQPKAGQMENTNMFHN
 LYVKRHTNVSILYADIVGFTRLASDCSPGELVHMLNELFGKFDQIAKENEKMRILGDCYYCVSGLPIS
 LPNHAKNCVKMGLDMCEAIKKVRDATGVDINMRVGVHSGNVLCGVIQLQWQYDVWVSHDVTLANHMEAGG
 VPGRVHISVTLNGLAYKVEEGDGDIRDYPLKQHLVKTYFVINPKGERRSPQHLFRPHRLDGAKMRA
 SVRMTRYLESWGAAPFAHLHHRDSMTTENGKISTTDVPMQHNFNQRLRRTKSQKRFEEELNERMIQA
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 SFGAAFLLLAFILFVCFAGQLLQCSKASPLLMWLLKSSGIIANRPWPRIISLTIITTAIILMMAVNMFF
 LSDSEETIPPTANTTNTSFSASNNQVAILRAQNLFFLPYFIYSCILGLISCSVFLRVNYELKMLIMMVAL
 VGYNTILLHHAHVLGDYSQVLFERPGIWKDLKTMGSVLSIFFITLLVLRQNEYYCRDLFLWKNKFKK
 EREEIETMENLRVLLLENVLPAHVAEHFLARSLKNEELYHQSYDCVCMFASIPDFKEFYTESDVNKEGL
 ECLRLLNEIIADFDDLKPKFSGVEKIKTIGSTYMAATGLSAVPSQEHSQEPERQYMHIGTMVEFAFAL
 VGKLDAINKHSFNDFKLRVGINHGPVIAIGVIGAQPQYDIWGNTVNVASRMDSTGVLDKIQVTEETSLLV
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TRTRPLE - GFP Tag - V

Restriction Sites:

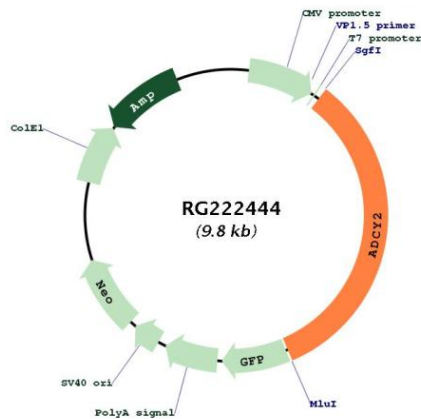
Sgfl-MluI

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

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]

Product images:



Circular map for RG222444