

## Product datasheet for **RR204389**

### Adrb2 (NM\_012492) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adrb2 (NM_012492) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adrb2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR204389 representing NM_012492 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCCACACGGGAATGACAGCGACTTCTTGCTGGCACCCAATGGAAGCCGAGCGCCAGGCCACGACA  
TCACTCAGGAACGGGACGAAGCGTGGTGGTGGGCATGGCCATCCTCATGTGCGTTATCGTCCTGGCCAT  
CGTGTTTGGCAACGTGCTGGTCATCACAGCCATTGCCAAGTTCGAGCGACTACAAACCGTCACCAACTAC  
TTCATAACCTCCTGGCGTGTGCTGATCTAGTCATGGCCCTAGCGGTGGTGCCTTTGGGCCAGTCATA  
TCCTTATGAAAAATGTGGAATTTGGCAATTTCTGGTGGCAGTTCTGGACTCCATTGATGTGTTGTGCGT  
CACAGCCAGCATCGAGACCCTGTGCGTGATTGCAGTGGATCGCTATGTTGCTATCACATCGCCCTTCAAG  
TACCAGAGCCTGCTGACCAAGAATAAGGCCGAGTGGTCATCCTAATGGTGTGGATTGTGTCGGGCCTTA  
CCTCCTTCTTGCTATCCAGATGCACTGGTACCGTGCCACCCACAAGCAAGCCATCGACTGTTATGCCAA  
GGAGACTTGCTGTGACTTCTTACGAACCAGGCCATGCTATCGCTTCTCTATCGTATCTTTCTACGTG  
CCCCTGGTGGTCATGGTCTTTGTCTATTCCAGGGTCTTCCAGGTGGCCAAAAGGCAGCTGCAGAAGATAG  
ACAAATCCGAGGGCAGATTTTCATGCCAAAACCTCAGCCAGGTGGAGCAGGATGGGAGGAGCGGGCACGG  
ACTCCGAAGTCTCCAAGTTCGCTTGAAGAGCACAAAGCCCTCAAGACTTTAGGCATCATCATGGGC  
ACCTTCACCTCTGCTGGCTGCCCTTCTCATTGTCAATATTGTCCACGTCATCCGGGCCAACCTCATCC  
CTAAGGAAGTTTACATCCTCCTTAAGTGGTGGGCTATGTCAACTCTGCCTTCAATCCTCTTATCTACTG  
TCGGAGTCCAGATTTAGGATTGCCTTCCAGGAGCTTCTGTGCCCTTCGCCGGTCTTCTTCGAAAACCTAT  
GGGAACGGCTACTCTAGCAACAGCAACGGTAGGACAGACTACACAGGGGAGCAGAGCGCATATCAGCTGG  
GGCAGGAGAAAAGAAAATGAAGTCTTTGTGAGGAAGCCCTGGCATGGAAGGCTTTGTGAAGTGTCAAGG  
TACTGTGCTAGCCTTAGCATTGACTCTCAAGGGAGGAAGTGTAAACAAAACGACTCGCCACTG

**ACGCGT**ACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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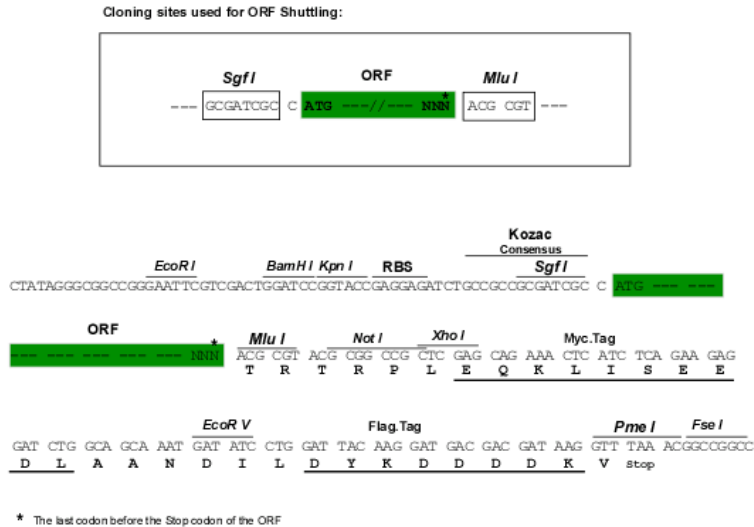
**Protein Sequence:** >RR204389 representing NM\_012492  
Red=Cloning site Green=Tags(s)

MEPHGNDSDFL LAPNGSRAPGH DITQERDEAWVVGMAILMSVIVLAI VFGNVLVITAI AKFERLQTVTNY  
 FITSLACADL VMGLAVVPFGASHILMKMWNFGNFWCFWTSIDVLCVTAS IETLCVIAVD RYVAITSPFK  
 YQSL LTKNKARVVILMVIVSGLT SFLPIQMHWRATHKQAIDCYAKETCCDFF TNQAYAIASSIVSFYV  
 PLVVMVFVYSRVFQVAKRQLQKIDKSEGRFHAQNL SQVEQDGRSGHGLRRSSKFCLKEHKALKTLGIIMG  
 TFTLCWLPFFIVNIVHVIRANLIPKEYI LLNLWLGYNVNSAFNPLIYCRSPDFRIAFQELLCLRSSSKTY  
 GNGYSSNSNGRTD YTGESAYQLGQEKENELLCEEAPGMEGFVNCQGTVP SLSIDSQGRNCNTNDSPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_012492

**ORF Size:** 1254 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_012492.2](#), [NP\\_036624.2](#)

**RefSeq Size:** 2065 bp

**RefSeq ORF:** 1257 bp

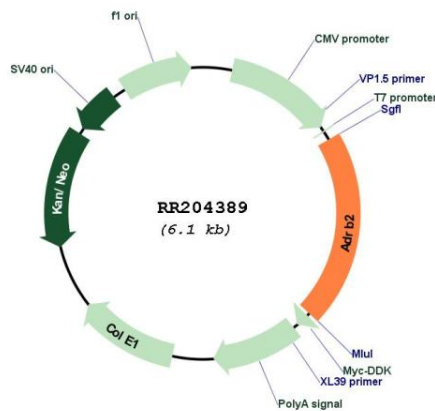
**Locus ID:** 24176

**Cytogenetics:** 18q12.1

**MW:** 47 kDa

**Gene Summary:** binds adrenergic receptor agonist zinterol; plays a role in G-protein coupled receptor regulation of calcium channel current [RGD, Feb 2006]

**Product images:**



Circular map for RR204389