

## Product datasheet for **RR200426**

### Adarb1 (NM\_001111055) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adarb1 (NM_001111055) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adarb1
Synonyms:	Adar2; Red1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR200426 representing NM\_001111055  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGATATAGAAGACGAAGAGAATATGAGTTCCAGCAGCACTGATGTTAAAGAAAACCGCAATCTGGACA  
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 GAGCACCAGCAGGAAGCGGCCCTTGAGGAGGGCAGCAATGGCCACTCCAAGTACCGCTGAAGAAGCGA  
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 CCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR200426 representing NM\_001111055  
 Red=Cloning site Green=Tags(s)

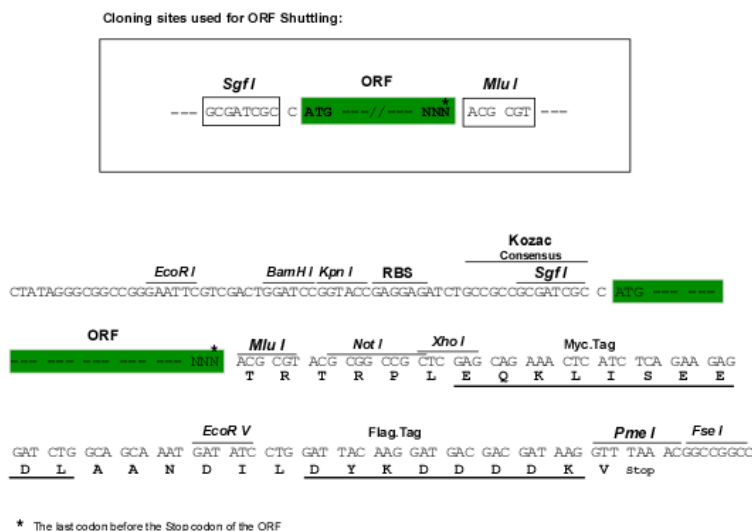
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 IPVRSNASIQTWGVLQGERLLTMSCSDKIARWNVVGIQGALLSIFVEPIYFSSIIILGSLYHGDHLSRAM  
 YQRISNIEDLPPLYTLNKPLLSGISNAEARQPGKAPNFSVNWTVGDTAIEVINATTGKDELGRPSRLCKH  
 ALYCRWMRVHGKVPPLLRTKITKPTTYHESKLAKEYQAAKARLFTAFIKAGLGAWVEKPTEQDQFSFT  
 P

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001111055

**ORF Size:** 2103 bp

**OTI Disclaimer:** 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\\_001111055.1](#), [NP\\_001104525.1](#)

**RefSeq Size:** 6382 bp

**RefSeq ORF:** 2106 bp

**Locus ID:** 25367

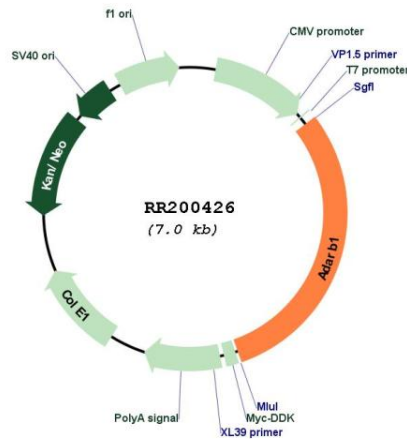
**UniProt ID:** [P51400](#)

**Cytogenetics:** 20p12

**MW:** 76.9 kDa

**Gene Summary:** This gene encodes a double-stranded-RNA-specific adenosine deaminase that is involved in editing pre-mRNAs by site-specific conversion of adenosine (A) to inosine (I). Substrates for this enzyme include ionotropic glutamate receptors (GluR2-6) and serotonin receptor (5HT2C). Studies in rodents have shown that this protein can modify its own pre-mRNA by A->I editing to create a novel acceptor splice site, alternative splicing to which results in down regulation of its protein expression. Additional splicing events result in transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RR200426