OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RR200427

Adarb1 (NM_012894) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adarb1 (NM_012894) 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)

ORF Nucleotide Sequence:

>RR200427 representing NM_012894
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATATAGAAGACGAAGAGAATATGAGTTCCAGCAGCACTGATGTTAAAGAAAACCGCAATCTGGACA
ACATGCCCCCCAAGGACAGCAGCACACCCGGGCCTGGCGAGGGTATTCCGCTCTCCAACGGGGGTGGTGG
GAGCACCAGCAGGAAGCGGCCCCTGGAGGAGGGCAGCAATGGCCACTCCAAGTACCGCCTGAAGAAGCGA
AGGAAAACGCCAGGGCCCGTTCTACCCAAGAACGCCCTGATGCAGCTGAACGAGATCAAACCGGGCTTAC
AGTACATGCTGCTGTCCCAGACAGGACCCGTGCACGCACCTCTGTTTGTCATGTCTGTGGAGGTAAACGG
GCAGGTCTTTGAAGGCTCCGGCCCTACAAAGAAGAAGGCAAAGCTGCATGCTGCTGAGAAGGCCCTGCGG
TCTTTTGTCCAGTTTCCCAACGCCTCTGAGGCCCACCTGGCCATGGGAAGGACCCTCTCCGTGAACACAG
ACTTCACGTCCGACCAGGCGGACTTCCCCGACACGCTCTTCAATGGCTTTGAGACTCCAGACAAGTCGGA
GCCACCCTTCTACGTAGGCTCCAATGGGGATGACTCCTTCAGCTCAAGCGGAGACGTTAGCCTGTCAGCC
TCCCCAGTGCCTGCCAGCCTTACCCAGCCTCCTCTGCCCATCCCACCACCATTCCCACCCCCAAGTGGGA
AGAACCCCGTGATGATCTTGAATGAGCTGCGCCCAGGGCTGAAGTATGACTTCCTCTCCGAGAGTGGGGA
GAGCCACGCCAAGAGCTTTGTCATGTCCGTGGTGGTAGATGGCCAGTTCTTTGAGGGCTCAGGGAGAAAC
AAGAAGCTTGCCAAGGCCCGGGCTGCACAGTCTGCCTTGGCTACTGTCTTCAATTTGCACTTGGACCAAA
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GTGCTCTCTGGAGTAGTGATGACCACAGGTACAGATGTCAAAGATGCCAAGGTGATAAGTGTTTCGACAG
GGACGAAGTGCATCAACGGCGAATACATGAGTGACCGTGGCCTGGCTCTCAATGACTGCCACGCAGAGAT
AATCTCCCGAAGGTCCCTGCTCAGGTTTCTATACGCACAGCTCGAGCTTTACTTAAATAACAAAGAAGAC
CAGAAAAAGTCCATATTTCAGAAGTCAGAGCGGGGTGGGTTCCGGCTGAAGGATACCGTGCAGTTCCACC
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CGGACTAAAATAGAATCTGGCGAGGGGACAATCCCTGTGCGCTCAAATGCCAGCATCCAGACCTGGGATG
GGGTGCTGCAGGGGGAACGGCTGCTCACCATGTCCTGCAGTGACAAGATAGCACGCTGGAACGTGGTGGG
CATCCAGGGGGCCCTGCTCAGCATTTTCGTGGAGCCCATCTACTTCTCCAGCATCATCCTGGGCAGCCTG
TACCACGGGGACCACCTCTCCAGGGCCATGTACCAGCGGATCTCCAACATAGAGGACCTGCCACCGCTCT
ACACCCTCAACAAGCCCCTGCTCAGCGGTATCAGCAATGCAGAGGCACGGCAGCCAGGGAAGGCACCCAA
CTTCAGTGTCAACTGGACGGTGGGCGACACGGCCATTGAGGTCATCAATGCCACAACAGGGAAGGATGAG
CTAGGCCGCCCCTCCCGCCTGTGTAAGCACGCGCTGTACTGTCGCTGGATGCGGGTACACGGAAAGGTGC
CCCCCCACCTGCTGCGCACCAAGATCACCAAGCCCACCACCTACCACGAGTCCAAGCTGGCAGCGAAGGA
GTACCAGGCTGCCAAGGCACGTCTGTTCACTGCCTTCATCAAGGCGGGGCTGGGCGCCTGGGTGGAGAAG
CCCACAGAGCAGGACCAGTTCTCCTTCACTCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

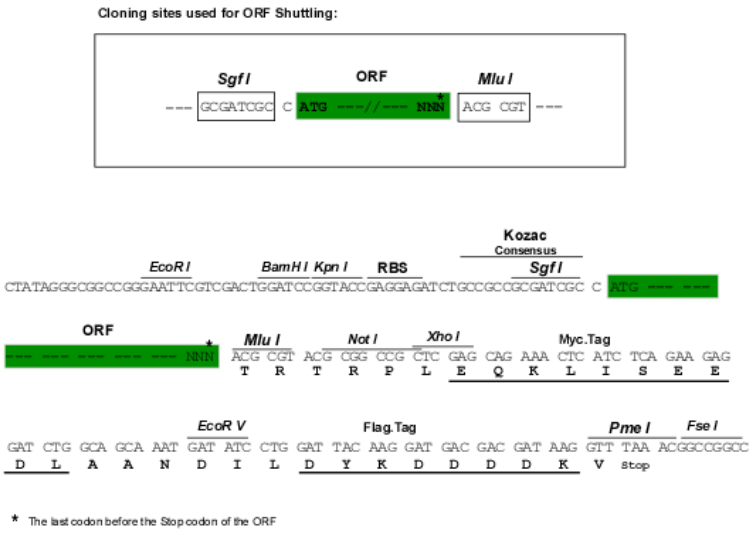
>RR200427 representing NM_012894
Red=Cloning site Green=Tags(s)

MDIEDEENMSSSSTDVKENRNLDNMPPKDSSTPGPGEGIPLSNGGGGSTSRKRPLEEGSNGHSKYRLKKR
RKTPGPVLPKNALMQLNEIKPGLQYMLLSQTGPVHAPLFVMSVEVNGQVFEGSGPTKKKAKLHAAEKALR
SFVQFPNASEAHLAMGRTLSVNTDFTSDQADFPDTLFNGFETPDKSEPPFYVGSNGDDSFSSSGDVSLSA
SPVPASLTQPPLPIPPPFPPPSGKNPVMILNELRPGLKYDFLSESGESHAKSFVMSVVVDGQFFEGSGRN
KKLAKARAAQSALATVFNLHLDQTPSRQPVLSEGLQLHLPQVLADAVSRLVLGKFSDLTDNFSSPHARRK
VLSGVVMTTGTDVKDAKVISVSTGTKCINGEYMSDRGLALNDCHAEIISRRSLLRFLYAQLELYLNNKED
QKKSIFQKSERGGFRLKDTVQFHLYISTSPCGDARIFSPHEPVLEGMAPDSHQLTEPADRHPNRKARGQL
RTKIESGEGTIPVRSNASIQTWDGVLQGERLLTMSCSDKIARWNVVGIQGALLSIFVEPIYFSSIILGSL
YHGDHLSRAMYQRISNIEDLPPLYTLNKPLLSGISNAEARQPGKAPNFSVNWTVGDTAIEVINATTGKDE
LGRPSRLCKHALYCRWMRVHGKVPPHLLRTKITKPTTYHESKLAAKEYQAAKARLFTAFIKAGLGAWVEK
PTEQDQFSFTP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012894

ORF Size: 2133 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_012894.2, NP_037026.2

RefSeq Size: 6412 bp

RefSeq ORF: 2136 bp

Locus ID: 25367

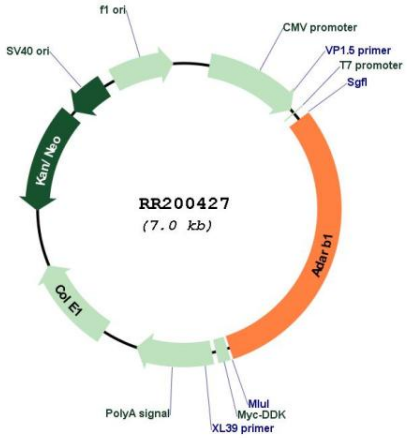
UniProt ID: P51400

Cytogenetics: 20p12

MW: 77.9 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 RR200427