

Product datasheet for **RN200427**

Adarb1 (NM_012894) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adarb1 (NM_012894) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Adarb1
Synonyms:	Adar2; Red1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN200427 representing NM_012894
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATATAGAAGACGAAGAGAATATGAGTTCCAGCAGCACTGATGTTAAAGAAAACCGCAATCTGGACA
 ACATGCCCCCAAGGACAGCAGCACACCCGGGCCCTGGCGAGGGTATTCCGCTCTCCAACGGGGTGGTGG
 GAGCACCAGCAGGAAGCGGCCCTTGAGGAGGGCAGCAATGGCCACTCCAAGTACCGCTGAAGAAGCGA
 AGGAAAACGCCAGGGCCCGTTCTACCAAGAACGCCCTGATGCAGCTGAACGAGATCAAACCGGGTTAC
 AGTACATGCTGCTGCCAGACAGGACCCGTGCACGCACCTCTGTTTGTTCATGCTGTGGAGGTAACGG
 GCAGGTCTTTGAAGGCTCCGGCCCTACAAAGAAGAAGGCAAGCTGCATGCTGCTGAGAAGGCCCTGCGG
 TCTTTTGTCCAGTTTCCAACGCCTCTGAGGCCACCTGGCCATGGGAAGGACCCCTCCGTGAACACAG
 ACTTCACGTCCGACCAGGCGGACTTCCCGACACGCTCTCAATGGCTTTGAGACTCCAGACAAGTCGGA
 GCCACCCTTCTAGTAGGCTCCAATGGGGATGACTCCTTCAGCTCAAGCGGAGACGTTAGCCTGTCAGCC
 TCCCCAGTGCCTGCCAGCCTTACCCAGCCTCCTCTGCCATCCCACCACCATTCCCACCCCAAGTGGGA
 AGAACCCCGTGATGATCTTGAATGAGCTGCGCCAGGGCTGAAGTATGACTTCCTCTCCGAGAGTGGGA
 GAGCCACGCCAAGAGCTTTGTCATGTCCGTGGTGGTAGATGGCCAGTTCTTTGAGGGCTCAGGGAGAAAAC
 AAGAAGCTTGCCAAGGCCGGGCTGCACAGTCTGCCTGGCTACTGTCTTCAATTTGCACTTGGACAAA
 CGCCATCTCGCCAGCCTGTCTCAGTGAGGGTCTCCAGTTGCATTTGCCACAGGTATTGGCAGATGCTGT
 CTCACGCCTGGTCTGGGTAAGTTCAAGTACCTGACAGACAACTTTTCTCCCCTCACGCACGAAGAAA
 GTGCTCTCTGGAGTAGTATGACCACAGGTACAGATGTCAAAGATGCCAAGGTGATAAGTGTTCGACAG
 GGACGAAGTGATCAACGGCGAATACATGAGTGACCGTGGCCTGCTCTCAATGACTGCCACGAGAGAT
 AATCTCCCGAAGGTCCTGCTCAGGTTTTCTATACGCACAGCTCGAGCTTTACTTAAATAACAAGAAGAC
 CAGAAAAAGTCCATATTTCAAGAGTCAGAGCGGGTGGTTCCGGCTGAAGGATACCGTGCAAGTTCACC
 TGTACATCAGCACCTCACCTGCGGAGACGCCAGAATATTCTCTCCCATGAGCCCGTGTAGAGGGTAT
 GGCGCCAGACTCCCACCAGCTGACAGAACCAGGCTGATAGACATCCGAATCGCAAAGCAAGGGGACAGCTG
 CGGACTAAAATAGAATCTGGCGAGGGGACAATCCCTGTGCGCTCAAATGCCAGCATCCAGACCTGGGATG
 GGGTGTGCAGGGGGAACGGCTGCTCACCATGTCTGCAGTGACAAGATAGCACGCTGGAACGTGGTGGG
 CATCCAGGGGGCCCTGCTCAGCATTTCGTGGAGCCCATCTACTTCTCCAGCATCATCTGGGCAGCCTG
 TACCACGGGGACCACCTCTCAGGGCCATGTACCAGCGGATCTCCAACATAGAGGACCTGCCACCCTCT
 ACACCCTCAACAAGCCCCTGCTCAGCGGTATCAGCAATGCAGAGGCACGGCAGCCAGGGAAGGCACCCAA
 CTTCAAGTCAACTGGACGGTGGGCGACACGGCCATTGAGGTATCAATGCCACAACAGGGAAGGATGAG
 CTAGGCCGCCCTCCCGCTGTGTAAGCACGCGCTGACTGTGCGTGGATGCGGGTACACGGAAAGGTGC
 CCCCCACCTGCTGCGCACCAAGATCACCAAGCCACCACCTACCACGAGTCCAAGCTGGCAGCGAAGGA
 GTACCAGGCTGCCAAGGCAGTCTGTTCACTGCCTTCAATCAAGGCGGGCTGGGCGCTGGGTGGAGAAG
 CCCACAGAGCAGGACCAGTTCTCCTTCACTCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_012894
Insert Size: 2136 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:	<ol style="list-style-type: none">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:	<u>NM_012894.2</u> , <u>NP_037026.2</u>
RefSeq Size:	6412 bp
RefSeq ORF:	2136 bp
Locus ID:	25367
UniProt ID:	<u>P51400</u>
Cytogenetics:	20p12
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1, also referred to as 2b) encodes the longest isoform (1).</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>