

## Product datasheet for **RN200424**

### Adarb1 (NM\_001111056) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adarb1 (NM_001111056) 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:** >RN200424 representing NM\_001111056  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCCCCAAGGACAGCAGCACACCCGGGCTGGCGAGGGTATTCGGCTCTCCAACGGGGTGGTGGGA  
 GCACCAGCAGGAAGCGGCCCTGGAGGAGGGCAGCAATGGCCACTCCAAGTACCGCTGAAGAAGCGAAG  
 GAAAACGCCAGGGCCCGTTCTACCCAAGAAGCGCCCTGATGCAGCTGAACGAGATCAAACCGGCTTACAG  
 TACATGCTGCTGTCCCAGACAGGACCCGTGCACGCACCTCTGTTTGTCTGTGTGGAGGTAACGGGC  
 AGGTCTTTGAAGGCTCCGGCCCTACAAAGAAGAAGGCAAAGCTGCATGCTGCTGAGAAGGCCCTGCGGTC  
 TTTTGTCCAGTTTCCAACGCCTCTGAGGCCACCTGGCCATGGGAAGGACCTCTCCGTGAACACAGAC  
 TTCACGTCGACAGGCGGACTTCCCGACACGCTCTTCAATGGCTTTGAGACTCCAGACAAGTCGGAGC  
 CACCCTTCTACGTAGGCTCCAATGGGGATGACTCCTTCAGCTCAAGCGGAGACGTTAGCCTGTCAGCCTC  
 CCCAGTGCTGCCAGCCTTACCCAGCCTCTCTGCCATCCCACCACCATTCCCACCCCAAGTGGGAAG  
 AACCCCGTGATGATCTTGAATGAGCTGCCCCAGGGCTGAAGTATGACTTCTCTCCGAGAGTGGGGAGA  
 GCCACGCCAAGAGCTTTGTCTGTCCGTGGTGGTATGAGTGGCCAGTTCTTTGAGGGCTCAGGGAGAAACAA  
 GAAGCTTGCCAAGGCCGGGCTGCACAGTCTGCCTTGGCTACTGTCTTCAATTTGCACTTGGACCAAACG  
 CCATCTCGCCAGCCTGTCTCAGTGAGGGTCTCCAGTTGCATTTGCCACAGGATTGGCAGATGCTGTCT  
 CACGCCTGGTCTGGTAAGTTCAGTGACCTGACAGACAACCTTTTCTCCCTCACGCACGAAGAAAAGT  
 GCTCTCTGGAGTAGTGATGACCACAGGTACAGATGTCAAAGATGCCAAGGTGATAAGTGTTCGACAGGG  
 ACGAAGTGCATCAACGGGAATACATGAGTGACCGTGGCTGGCTCTCAATGACTGCCACGCAGAGATAA  
 TCTCCGAAGTCCCTGCTCAGTCTTCTATACGCACAGCTCGAGCTTTACTTAAATAACAAGAAGACCA  
 GAAAAAGTCCATATTTTCAGAAGTCAGAGCGGGTGGGTTCCGGCTGAAGGATACCGTGCAGTTCACCTG  
 TACATCAGCACCTCACCTGCGGAGACGCCAGAATATTCTCTCCCATGAGCCCGTGTAGAGGGTATGG  
 CGCCAGACTCCCACAGCTGACAGAACCGGCTGATAGACATCCGAATCGCAAAGCAAGGGGACAGCTGCG  
 GACTAAAATAGAATCTGGCGAGGGGACAATCCCTGTGCGCTCAAATGCCAGCATCCAGACCTGGGATGGG  
 GTGCTGCAGGGGAAACGGCTGCTCACCATGTCTGCAGTGACAAGATAGCAGCTGGAACGTGGTGGGCA  
 TCCAGGGGCCCTGCTCAGCATTTCTGGAGCCATCTACTTCTCCAGCATCATCTGGGCAGCCTGTA  
 CCACGGGGACCACCTCTCAGGGCCATGTACCAGCGGATCTCAAACATAGAGGACCTGCCACCGCTTAC  
 ACCCTCAACAAGCCCCTGCTCAGCGGTATCAGCAATGCAGAGGCACGGCAGCCAGGGAAGGCACCCAACT  
 TCAGTGTCAACTGGACGGTGGGCGACACGGCCATTGAGGTCAATGCCACAACAGGGAAGGATGAGCT  
 AGGCCGCCCTCCCGCTGTGTAAGCACGCGTGTACTGTGCTGGATGCGGGTACACGGAAGGTGCC  
 CCCACCTGCTGCGCACCAAGATCACCAAGCCACCACCTACCACGAGTCCAAGCTGGCAGCGAAGGAGT  
 ACCAGGCTGCCAAGGCACGTCTGTTCACTGCCTCATCAAGGCGGGGCTGGGCGCTGGGTGGAGAAGCC  
 CACAGAGCAGGACCAGTTCTCTTCACTCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001111056  
**Insert Size:** 2064 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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001111056.1</a></u> , <u><a href="#">NP_001104526.1</a></u>
<b>RefSeq Size:</b>	6459 bp
<b>RefSeq ORF:</b>	2064 bp
<b>Locus ID:</b>	25367
<b>UniProt ID:</b>	<u><a href="#">P51400</a></u>
<b>Cytogenetics:</b>	20p12
<b>Gene Summary:</b>	<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-&gt;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 (3, also referred to as 2f) results from an auto RNA editing event (AA-&gt;AI) in the intronic sequence that creates a novel acceptor splice site, splicing to which inserts 47 nt into the coding region causing a frame-shift, compared to transcript variant 1. Translation initiation from the upstream AUG will result in a very short protein of 82 aa. However, studies reported in PMID:10331393 show that leaky translation initiation from an in-frame, downstream AUG allows some protein expression, and that this isoform (3) exhibits RNA editing activity. Isoform 3 is 24 aa shorter at the N-terminus compared to isoform 1. 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 the transcript and the encoded protein are supported by transcript alignment and PMID:10331393.</p>