

Product datasheet for **MR225001**

Adarb1 (NM_130895) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adarb1 (NM_130895) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adarb1
Synonyms:	1700057H01Rik; AD; Adar2; AW124433; AW558573; BB220382; D10Bwg0447e; RED; Red1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225001 representing NM_130895
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATATAGAAGATGAAGAGAATATGAGTTCAGCAGCACTGATATTAAGAAAACCGCAATCTGGACA
 ACATGCCCCCAAGGACAGCAGCACACCTGGGCCTGGCGAGGGTATTCCGCTCTCCAACGGGGTGGTGG
 TAGCACCAGCAGGAAGCGGCCCTGGAGGAGGGCAGCAATGGTCACTCCAAGTACCGCCTGAAGAAGCGA
 AGGAAAACACCAGGGCCTGTTCTGCCAAGAACGCCCTGATGCAGCTGAACGAGATCAAACCTGGCTTAC
 AGTACATGCTGTCTCCAGACAGGACCGTGCATGCACCTCTGTTTGTTCATGTCTGTGGAGGTAACGG
 GCAGGTTTTGAGGGCTCTGGCCCTACAAAGAAAAAGGCAAACTCCATGCTGCTGAGAAGGCCCTGAGG
 TCTTTTGTCCAGTTCCCAACGCCTCCGAGGCCACCTAGCCATGGGAAGGACCCCTCTGTGAACACAG
 ACTTCACGTCTGACCAGGCTGACTTCCCTGACACACTTCAATGGCTTCGAGACTCCAGACAAGTCAGA
 GCCACCCTTCTAGTAGGCTCCAACGGGATGACTCGTTCAGCTCAAGTGGAGATGTCAGCCTATCGGCC
 TCCCCAGTGCCTGCCAGCCTTACCCAGCCTCCTCTGCCCATCCCACCACCTCCACCCCAAGTGGGA
 AGAATCCCGTGATGATCTTGAATGAGCTACGCCAGGGCTGAAGTATGACTTCCTCTCTGAGAGTGGGA
 GAGCCACGCCAAGAGCTTCGTATGTCCGTGGTGGTAGATGGCCAGTCTTTGAGGGCTCAGGAAGAAA
 AAGAAGCTTGCCAAGGCCGGGCTGCACAGTCTGCCTGGCTACTGTCTTCAATTTGCACTTGGACAAA
 CACCATCTCGCCAGCCTGTCTCAGTGAGGGTCTTCAGTTGCATTTGCCACAGGTATTGGCAGATGCTGT
 CTCCCGCTGGTCTGGGTAAGTTCAGTGACCTGACAGACAACTTTTCTCCCCTCATGCACGAAGGAAA
 GTGCTCTCTGGAGTAGTATGACCACAGGTACAGATGTCAAAGATGCCAAGGTGATAAGTGTTCGACAG
 GGACGAAGTGTATCAACGGTGAATACATGAGTGACCGTGGCCTCGCACTCAATGACTGCCACGAGAT
 AATCTCCCGAAGTCCCTGCTCAGGTTTTATGCACAGCTCGAGCTTTATTTAAATAACAAGAAGAC
 CAGAAAAAGTCCATATTTCAAGTCAAGAGCGGGTGGGTTCCGGCTGAAGGATACCGTGCAAGTTCACC
 TGTACATCAGCACCTCGCCCTGCGGAGACGCCAGAATATTCTCTCCCACGAGCCCGTGTAGAGGAACC
 AGCAGATAGACATCCGAATCGCAAAGCAAGGGGACAGCTACGGACGAAAAAGAGTCTGGCGAGGGGACA
 ATCCCTGTGCGCTCAAATGCCAGCATCCAGACCTGGGACGGGGTGTGCAGGGGAAACGGCTGCTACCA
 TGTCTGCAGTGACAAGATAGCACGCTGGAACGTGGTGGGCATCCAGGGTCCCTGCTCAGCATTTCGT
 GGAACCCATCTACTTCTCCAGCATCATCTTGGGACGCTGTACCACGGGGACCACCTCTCCAGGGCCATG
 TACCAGCGGATCTCCAACATAGAGGACCTGCCACCGCTCTACACTCTCAACAAGCCCTGCTCAGCGGCA
 TCAGCAATGCAGAGGCACGGCAGCCAGGGAAGGCACCCAACTTCAAGTGTCAACTGGACAGTGGGTGACGC
 CACCATTGAGGTCAATGCCACAACAGGGAAGGATGAGCTTGCCCGCCATCCCCTGTGTAAGCAC
 GCGCTGTACTGTGCTGGATGCGTGTACACGGCAAGGTTCCCCCCACCTGCTGCGCACCAAGATCACTA
 AGCCTACCACATACCACGAGTCCAAGCTGGCAGCGAGGGAGTACCAGGCTGCCAAGGCCCGTCTGTTTAC
 TGCCTTCAAGGCGGGGCTGGGCGCCTGGGTGGAGAAGCCACAGAGCAGGACCAGTTCTCCTTCACT
 CCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225001 representing NM_130895
Red=Cloning site Green=Tags(s)

MDIEDEENMSSSSTDIKENRNLDMPPKDSSTPGPEGIPLSNGGGGSTSRKRPLEEGSNHGSKYRLKKR
 RKTPGPVLPKNALMQLNEIKPGLQYMLLSQTGPVHAPLFVMSVEVNGQVFEGSGPTKKKAKLHAAEKALR
 SFVQFPNASEAHLAMGRTLSVNTDFTSDQADFPDTLFGNFETPDKSEPPFYVGSNGDDSFSSSGDVLSA
 SPVPASLTQPPLPIPPFPFPPSGKNPVMILNELRPGLKYDFLSESGESHAKSFVMSVVVDGQFEGSGRN
 KKLAKARAAQSALATVFNLHLDQTPSRQPVLSEGLQLHLPQVLADAVSRLVLGKFSDLTDNFSSPHARRK
 VLSGVVMTTGTVDKAKVISVSTGKTCINGEYMSDRGLALNDCHAEIISRRSLLRFLYAQLELYLNKED
 QKKSIFQKSERGGFRLKDTVQFHLYISTSPCGDARIFSPHEPVLEPADRHPNRKARGQLRTKIESGEGT
 IPVRSNASIQTWGVLQGERLLTMSCSDKIARWNVVGIIQGSLLSIFVEPIYFSSIIILGSLYHGDHLSRAM
 YQRISNIEDLPPLYTLNKPLLSGISNAEARQPGKAPNFSVNWTVGDATIEVINATTGKDELGRPSRLCKH
 ALYCRWMRVHGKVPPLLRTKITKPTTYHESKLAAREYQAAKARLFTAFIKAGLGAWVEKPTEQDQFSFT
 P

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_130895

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_130895.3](#), [NP_570965.2](#)

RefSeq Size: 6572 bp

RefSeq ORF: 2106 bp

Locus ID: 110532

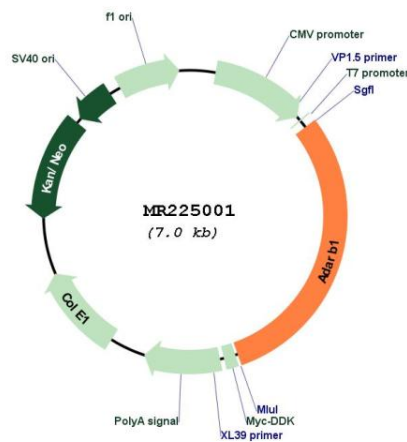
UniProt ID: [Q91ZS8](#)

Cytogenetics: 10 39.72 cM

MW: 77.4 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 MR225001