

Product datasheet for **MR224167**

Adarb1 (NM_001024837) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adarb1 (NM_001024837) 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)



[View online »](#)

ORF Nucleotide
Sequence:

>MR224167 representing NM_001024837
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATATAGAAGATGAAGAGAATATGAGTTCAGCAGCACTGATATTAAGAAAACCGCAATCTGGACA
ACATGCCCCCAAGGACAGCAGCACACCTGGGCCCTGGCGAGGGTATTCCGCTCTCCAACGGGGTGGTGG
TAGCACCAGCAGGAAGCGGCCCTGGAGAGGGCAGCAATGGTCACTCCAAGTACCGCCTGAAGAAGCGA
AGGAAAACACCAGGGCCTGTTCTGCCAAGAACGCCCTGATGCAGCTGAACGAGATCAAACCTGGCTTAC
AGTACATGCTGCTGCCAGACAGGACCCGTGCATGCACCTCTGTTTGTGATGCTGTGGAGGTAACGG
GCAGGTTTTGAGGGCTCGGCCCTACAAAGAAAAGGCAAACTCCATGCTGCTGAGAAGGCCCTGAGG
TCTTTTGTCCAGTTCCCAACGCCTCCGAGGCCACCTAGCCATGGGAAGGACCCCTCTGTGAACACAG
ACTTCACGCTGACCAGGCTGACTTCCCTGACACACTTCAATGGCTTCGAGACTCCAGACAAGTCAGA
GCCACCCTTCTAGTAGGCTCCAACGGGGATGACTCGTTCAGCTCAAGTGGAGATGTCAGCCTATCGGCC
TCCCCAGTGCCTGCCAGCCTTACCAGCCTCCTCTGCCCATCCCACCACATTCCCACCCCAAGTGGGA
AGAATCCCGTGATGATCTTGAATGAGCTACGCCAGGGCTGAAGTATGACTTCCTCTCTGAGAGTGGGA
GAGCCACGCCAAGAGCTTCGTATGTCCGTGGTGGTAGATGGCCAGTTCTTTGAGGGCTCAGGAAGAAA
AAGAAGCTTGCCAAGGCCGGGCTGCACAGTCTGCCTGGCTACTGTCTTCAATTTGCACTTGGACAAA
CACCATCTCGCCAGCCTGTCTCAGTGAGGGTCTTCAGTTGCATTTGCCACAGGATTTGGCAGATGCTGT
CTCCCGCTGGTCTGGTAAGTTCAAGTACAGTGCAGACAACCTTTCTCCCTCATGCACGAAGGAAA
GTGCTCTCTGGAGTAGTATGACCACAGGTACAGATGTCAAAGATGCCAAGGTGATAAGTGTTCGACAG
GGACGAAGTGTATCAACGGTGAATACATGAGTGACCGTGGCCTCGCACTCAATGACTGCCACGAGAGAT
AATCTCCCGAAGTCCCTGCTCAGGTTTTATGCACAGCTCGAGCTTTATTTAAATAACAAGAAGAC
CAGAAAAAGTCCATATTTCAAGTCAAGAGCGGGTGGTTCCGGCTGAAGGATACCGTGCAGTTCCACC
TGTACATCAGCACCTCGCCCTGCGGAGACGCCAGAATATTCTCTCCACGAGCCGTGCTAGAGGGTAT
GAGCCAGACTCTCACCAGCTGACAGAACCAGCAGATAGACATCCGAATCGCAAAGCAAGGGGACAGCTA
CGGACGAAAATAGAGTCTGGCGAGGGGACAATCCCTGTGCGCTCAAATGCCAGCATCCAGACCTGGGACG
GGGTGCTGCAGGGGAACGGCTGCTCACCATGTCCTGCAGTGACAAGATAGCACGCTGGAACGTGGTGGG
CATCCAGGGTCCCTGCTCAGCATTTTCGTGGAACCCATCTACTTCTCCAGCATCATCTTGGGCAGCCTG
TACCACGGGGACCACCTCTCAGGGCCATGTACCAGCGGATCTCAACATAGAGGACCTGCCACCCTCT
ACACTCTCAACAAGCCCCTGCTCAGCGGATCAGCAATGCAGAGGCACGGCAGCCAGGGAAGGCACCCAA
CTTCAGTGTCAACTGGACAGTGGGTGACGCCACCATGAGGTATCAATGCCACAACAGGGAAGGATGAG
CTTGGCGCCCATCCCGCTGTGTAAGCAGCGCTGACTGTGCGTGGATGCGTGTACACGGCAAGGTTT
CCCCCACCTGCTGCGCACCAAGATCACTAAGCCTACCACATACCACGAGTCCAAGCTGGCAGCGAGGGA
GTACCAGGCTGCCAAGGCCGTCTGTTCACTGCCTTCAAGGGCGGGCTGGGCGCTGGGTGGAGAAG
CCCACAGAGCAGGACCAGTTCTCCTTCACTCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224167 representing NM_001024837
Red=Cloning site Green=Tags(s)

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MDIEDEENMSSSSTDIKENRNLDMPPKDSSTPGPEGIPLSNGGGGSTSRKRPLEEGSNHGSKYRLKRR
RKTTPGPVLPKNALMQLNEIKPGLQYMLLSQTGPVHAPLFVMSVEVNGQVFEGSGPTKKKAKLHAAEKALR
SFVQFPNASEAHLAMGRTLSVNTDFTSDQADFPDTLFGNFETPKSEPPFVYVGSNGDSSFSSSGDVLSA
SPVPASLTQPPLPIPPFPFPPSGKNPVMILNELRPGLKYDFLSEGESHAKSFVMSVVVDGQFFEGSGRN
KKLAKARAAQSALATVFNLHLDQTPSRQPVLSEGLQLHLPQVLADAVSRLVLGKFSDLTDNFSSPHARRK
VLSGVVMTTGTDVKDAKVISVSTGKTCINGEYMSDRGLALNDCHAEIISRRSLLRFLYAQLELYLNKED
QKKSIFQKSERGGFRLKDTVQFHLYISTSPCGDARIFSPHEPVLEGMPDASHQLTEPADRHPNRKARGQL
RTKIESGEGTIPVRSNASIQTWGVLQGERLLTMSCSDKIARWNVVGIIQGSLLSIFVEPIYFSSIIILGSL
YHGDHLSRAMYQRISNIEDLPLLYTLNKPLLSGISNAEARQPGKAPNFSVNWTVGDATIEVINATTGKDE
LGRPSRLCKHALYCRWMRVHGKVPPhLLRTKITKPTTYHESKLAAREYQAAKARLFTAFIKAGLGAWVEK
PTEQDQFSFTP
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9040_e07.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001024837

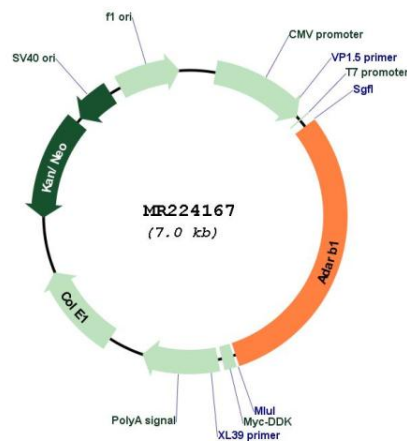
ORF Size: 2133 bp

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:	<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_001024837.2, NP_001020008.1</u>
RefSeq Size:	6602 bp
RefSeq ORF:	2136 bp
Locus ID:	110532
UniProt ID:	<u>Q91ZS8</u>
Cytogenetics:	10 39.72 cM
MW:	78.5 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 MR224167