

Product datasheet for **MG224167**

Adarb1 (NM_001024837) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adarb1 (NM_001024837) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adarb1
Synonyms:	1700057H01Rik; AD; Adar2; AW124433; AW558573; BB220382; D10Bwg0447e; RED; Red1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224167 representing NM_001024837
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATATAGAAGATGAAGAGAATATGAGTTCAGCAGCACTGATATTAAGAAAACCGCAATCTGGACA
 ACATGCCCCCAAGGACAGCAGCACACCTGGGCCCTGGCGAGGGTATTCCGCTCTCCAACGGGGTGGTGG
 TAGCACCAGCAGGAAGCGGCCCTGGAGGAGGGCAGCAATGGTCACTCCAAGTACCGCCTGAAGAAGCGA
 AGGAAAACACCAGGGCCTGTTCTGCCAAGAACGCCCTGATGCAGCTGAACGAGATCAAACCTGGCTTAC
 AGTACATGCTGTCTCCAGACAGGACCCGTGCATGCACCTCTGTTTGTTCATGTCTGTGGAGGTAACGG
 GCAGGTTTTGAGGGCTCTGGCCCTACAAAGAAAAGGCAAACTCCATGCTGCTGAGAAGGCCCTGAGG
 TCTTTTGTCCAGTTTCCAACGCCTCCGAGGCCACCTAGCCATGGGAAGGACCCCTCTGTGAACACAG
 ACTTCACGTCTGACCAGGCTGACTTCCCTGACACACTTCAATGGCTTCGAGACTCCAGACAAGTCAGA
 GCCACCCTTCTAGTAGGCTCCAACGGGGATGACTCGTTCAGCTCAAGTGGAGATGTCAGCCTATCGGCC
 TCCCCAGTGCCTGCCAGCCTTACCCAGCCTCCTCTGCCCATCCCACCACATTCCCACCCCAAGTGGGA
 AGAATCCCGTGATGATCTTGAATGAGCTACGCCAGGGCTGAAGTATGACTTCCTCTCTGAGAGTGGGA
 GAGCCACGCCAAGAGCTTCGTCATGTCCGTGGTGGTAGATGGCCAGTTCTTTGAGGGCTCAGGAAGAAA
 AAGAAGCTTGCCAAGGCCGGGCTGCACAGTCTGCCTGGCTACTGTCTTCAATTTGCACTTGGACAAA
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 GTGCTCTCTGGAGTAGTATGACCACAGGTACAGATGTCAAAGATGCCAAGGTGATAAGTGTTCGACAG
 GGACGAAGTGATCAACGGTGAATACATGAGTGACCGTGGCCTCGCACTCAATGACTGCCACGCAGAGAT
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 CGGACGAAAATAGAGTCTGGCGAGGGGACAATCCCTGTGCGCTCAAATGCCAGCATCCAGACCTGGGACG
 GGGTGTCTCAGGGGAACGGCTGCTCACCATGTCTGCAGTGACAAGATAGCACGCTGGAACGTGGTGGG
 CATCCAGGGTCCCTGCTCAGCATTTCGTGGAACCCATCTACTTCTCCAGCATCATCTTGGGCAGCCTG
 TACCACGGGGACCACCTCTCAGGGCCATGTACCAGCGGATCTCAACATAGAGGACCTGCCACCCTCT
 AACTCTCAACAAGCCCCTGCTCAGCGCATCAGCAATGCAGAGGCACGGCAGCCAGGGAAGGCACCCAA
 CTTCAAGTCAACTGGACAGTGGGTGACGCCACCATGAGGTATCAATGCCACAACAGGGAAGGATGAG
 CTTGGCGCCCATCCCGCTGTGTAAGCAGCGCTGACTGTGCGTGGATGCGTGTACACGGCAAGGTTT
 CCCCCACCTGCTGCGCACCAAGATCACTAAGCCTACCACATACCAGAGTCCAAGCTGGCAGCGAGGGA
 GTACCAGGCTGCCAAGGCCGTCTGTTCACTGCCTTCAAGGGCGGGCTGGGCGCTGGGTGGAGAAG
 CCCACAGAGCAGGACCAGTTCCTTCACTCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224167 representing NM_001024837
 Red=Cloning site Green=Tags(s)

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MDIEDEENMSSSSTDIKENRNLDNMPPKDSSTPGPGEGIPLSNGGGGSTSRRKPLEEGSNHGSKYRLKRR
RKTPGVLKPKNALMQLNEIKPGLQYMLLSQTGPVHAPLFVMSVEVNGQVFEGSGPTKKKAKLHAAEKALR
SFVQFPNASEAHLAMGRTLSVNTDFTSDQADFPDTLFGNFETPKSEPPFVYVGSNGDSSFSSSGDVLSA
SPVPASLTQPPLPIPPFPFPPSGKNPVMILNELRPGLKYDFLSESGESHAKSFVMSVVVDGQFFEGSGRN
KKLAKARAAQSALATVFNHLHDQTPSRQPVLSEGLQLHLPQVLADAVSRLVLGKFSDLTDNFSSPHARRK
VLSGVVMTTGTVDKAKVISVSTGKTCINGEYMSDRGLALNDCHAEIISRRSLLRFLYAQLELYLNKED
QKKSIFQKSERGGFRLKDTVQFHLYISTSPCGDARIFSPHEPVLEGMTPDShQLTEPADRHPNRKARGQL
RTKIESGEGTIPVRSNASIQTWGVLQGERLLTMSCSDKIARWNVVGIIQGSLLSIFVEPIYFSSIIILGSL
YHGDHLSRAMYQRISNIEDLPLLYTLNKPLLSGISNAEARQPGKAPNFSVNWTVGDATIEVINATTGKDE
LGRPSRLCKHALYCRWMRVHGKVPPhLLRTKITKPTTYHESKLAAREYQAAKARLFTAFIKAGLGAWVEK
PTEQDQFSFTP
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:

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_001024837.2](#), [NP_001020008.1](#)

RefSeq Size: 6602 bp

RefSeq ORF: 2136 bp

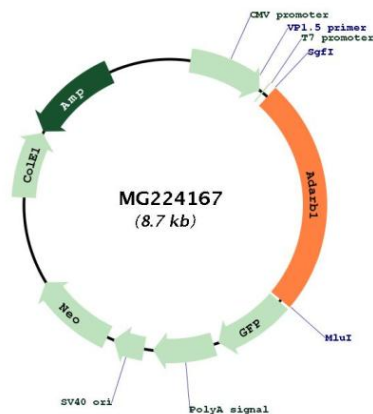
Locus ID: 110532

UniProt ID: [Q91ZS8](#)

Cytogenetics: 10 39.72 cM

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 MG224167