

Product datasheet for **MG225001**

Adarb1 (NM_130895) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adarb1 (NM_130895) 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:

>MG225001 representing NM_130895
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATATAGAAGATGAAGAGAATATGAGTTCAGCAGCACTGATATTAAGAAAACCGCAATCTGGACA
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 AGGAAAACACCAGGGCCTGTTCTGCCAAGAACGCCCTGATGCAGCTGAACGAGATCAAACCTGGCTTAC
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 GCGCTGTACTGTGCTGGATGCGTGTACACGGCAAGGTTCCCCCCCACCTGCTGCGCACCAAGATCACTA
 AGCCTACCACATACCACGAGTCCAAGCTGGCAGCGAGGGAGTACCAGGCTGCCAAGGCCCGTCTGTTTAC
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 CCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

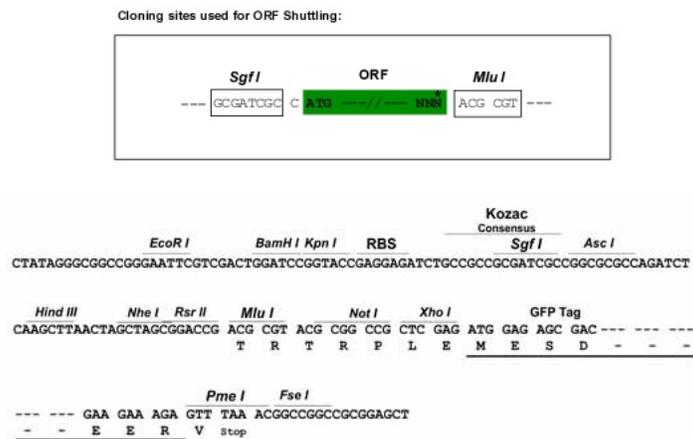
Protein Sequence: >MG225001 representing NM_130895
 Red=Cloning site Green=Tags(s)

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SPVPASLTQPPLPIPPFPFPPSGKNPVMILNELRPGLKYDFLSESGESHAKSFVMSVVVDGQFEGSGRN
KKLAKARAAQSALATVFNHLHDQTPSRQPVLSEGLQLHLPQVLADAVSRLVLGKFSDLTDNFSSPHARRK
VLSGVVMTTGTVDKAKVISVSTGKTCINGEYMSDRGLALNDCHAEIISRRSLLRFLYAQLELYLNKED
QKKSIFQKSERGGFRLKDTVQFHLYISTSPCGDARIFSPHEPVLEPADRHPRNRKARGQLRTKIESGEGT
IPVRSNASIQTWGVLQGERLLTMSCSDKIARWNVVGIIQGSLLSIFVEPIYFSSIIILGSLYHGDHLSRAM
YQRISNIEDLPPLYTLNKPLLSGISNAEARQPGKAPNFSVNWTVGDATIEVINATTGKDELGRPSRLCKH
ALYCRWMRVHGKVPPLLRTKITKPTTYHESKLAAREYQAAKARLFTAFIKAGLGAWVEKPTEQDFSFST
P
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TRTRPLE - GFP Tag - V

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

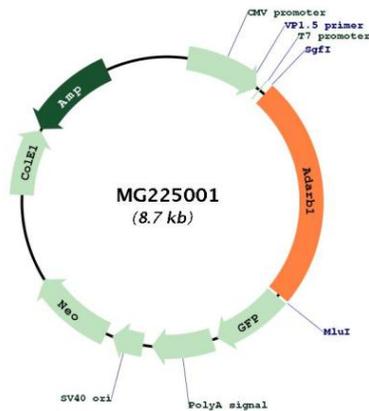
Locus ID: 110532

UniProt ID: [Q91ZS8](#)

Cytogenetics: 10 39.72 cM

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 MG225001