

Product datasheet for **MG210425**

Adarb2 (NM_052977) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adarb2 (NM_052977) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adarb2
Synonyms:	Adar3; RED2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG210425 representing NM_052977
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCATCTGTCCTGGGAGTGGCAGAGGGTCTGGAGGGCTAAGCAGTCAACTCAAATGCAAGTCCAAGA
 GGAGGAGGAGGAGGAGGTCCAAGAGGAAAGACAAAGTCAGCATACTGTCAACCTTCCTTGCTCCTTTCAA
 GTACCTAAGTCCTGGCACCACAAACACAGAGGATGAAGATAACCTAAGTACCAGCAGTGTGAAGTGAAG
 GAAAACCGAAATGTGAGCAACCTGGGGACCAGGCCCTGCCCCCTGGAGACTGGGCCAGAGGCAGCACAC
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 GAAGAAGCTCTCCTGGTCTGTGACACCCAAGAATGCGCTGGTCCAGCTGCATGAGCTGAAGCCTGGTCTG
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 AAGACTTCCCAGGCTGTATCCCGTTGATACTGAGTTTCTGTCCTCTGCCTATCGGCCAGGACGGCTACT
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 CTTGGTACATACCCAGCAGGAGTAAAAGCAACCTCTTCCACAGGATTTTGCAGACTCTGTGTCCACAGC
 TGGTACACAGAAAGTCCGTGAAGTGCAGTCCGCTGACATCTGTGTATGCCCGCCACAAAACACTGGC
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 ATGTACTGTGAGGCCAAGCAGGGGGCTCACACCTACCAGTCTGTTAAACAGCAGCTCTTCAAGGCCTTTC
 AGAAAGCCGGTCTTGGCACCTGGGTGAGAAAACACCGGAGCAAGATCAGTTTCTACTAAGTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210425 representing NM_052977
 Red=Cloning site Green=Tags(s)

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MASVLGSGRSGGLSSQLKCKSKRRRRRSKRKDKVSILSTFLAPFKYLSPGTTNTEDEDNLSTSSAEVK
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DFTSDQADFPDTL FKEFEPSSKNEDFPGCHPVDTEFLSSAYRRGRLLYHTLDLMGQALPDRSRLAPGALG
ERNPVVVLNELRSGLRVYVCLSETAEKPRVKS FVMAVCVDGRTFEGSGRSKLLAKGQAAQALQALFDIRL
PGHIPSRSKSNLLPQDFADSVS QLVTVQKFRELTVGLTSVYARHKTLAGIVMTKGLDTKQAQVIVLSSGTK
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CTDKIASWNVLGLQGALLCHFIEPVYLHSIIVGSLHHTGHLARVM SHRMEGIGQLPAS YRQNRPLL SGVS
HAEARQPKSPHFSANWVVG SADLEIINATTGKRSCGSSRLCKHVFSAWWARLHGRLSTRIPSHGDTPS
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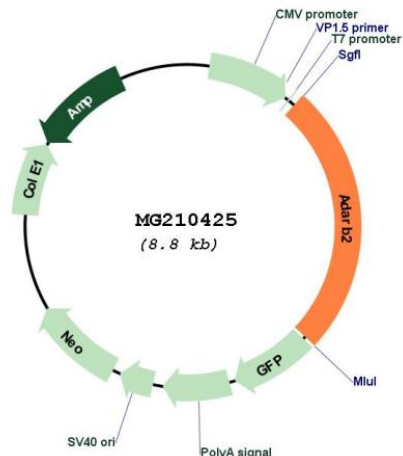
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_052977

ORF Size: 2235 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_052977.5](#), [NP_443209.2](#)

RefSeq Size: 5456 bp

RefSeq ORF: 2238 bp

Locus ID: 94191

UniProt ID: [Q9JI20](#)

Cytogenetics: 13 A1

Gene Summary: Lacks editing activity. It prevents the binding of other ADAR enzymes to targets in vitro, and decreases the efficiency of these enzymes. Capable of binding to dsRNA but also to ssRNA (By similarity).[UniProtKB/Swiss-Prot Function]