

Product datasheet for **MR210425**

Adarb2 (NM_052977) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adarb2 (NM_052977) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adarb2
Synonyms:	Adar3; RED2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210425 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCATCTGTCCTGGGAGTGGCAGAGGGTCTGGAGGGCTAAGCAGTCAACTCAAATGCAAGTCCAAGA
GGAGGAGGAGGAGGAGGTCCAAGAGGAAAGACAAAGTCAGCATACTGTCAACCTTCCTTGCTCCTTTCAA
GTACCTAAGTCCTGGCACCACAAACACAGAGGATGAAGATAACCTAAGTACCAGCAGTGTGAAGTGAAG
GAAAACCGAAATGTGAGCAACCTGGGGACCAGGCCCTGCCCTGGAGACTGGGCCAGAGGCAGCACAC
CCAGCGTTAAAAGGAAAAGGCCGCTGGAGGAAGGAAATGGGGGACATTTCTGCAAACCTCCAGCTGATCTG
GAAGAAGCTCTCCTGGTCTGTGACACCCAAGAATGCGCTGGTCCAGCTGCATGAGCTGAAGCCTGGTCTG
CAGTACCGAATGGTGTACAGACGGGCCCGGTGCACGCCCAAGTTTTCGAGTGGCTGTAGAAGTGAACG
GCCTCACATTTGAAGGCACGGGGCCCACTAAGAAGAAGGCCAAGATGCGGGCAGCAGAAAAGGCCCTGAA
GTCCTTTGTGAGTTCCTCAATGCCTCCAGGCCACCTGGCCATGGGCAGTAGTACCAGCCGTGCACT
GACTTCACCTCTGACCAGGCTGACTTCCAGACAGCTTGTTCAGGAGTTTGAACCATCCTCAAAAAACG
AAGACTTCCCAGGCTGTATCCCGTTGATACTGAGTTTCTGTCCTCTGCCTATCGGCCAGGACGGCTACT
CTACCACACCCTGGACCTCATGGGCCAGGCTCTGCCTGACAGGTCAGGCTGGCTCCGGGAGCCTTGGGT
GAGAGGAACCTGTAGTGGTACTGAATGAGTTACGCTCAGGCTTTCGGTATGTGTGCCTCTCCGAGACAG
CCGAGAAGCCCGAGTCAAGAGCTTTGTATGGCTGTGTGCGTGGATGGGAGGACGTTTCAAGGCTCTGG
ACGCAGCAAGAAGCTGGCCAAGGGCCAAGCAGCACAAGCTGCCTTGCAGGCCCTTTCGATATCCGGCTG
CTTGGTACATACCCAGCAGGAGTAAAAGCAACCTCTTCCACAGGATTTTGCAGACTCTGTGTCCACAGC
TGGTACACAGAAAGTTCGTTGAACTGACAGTCCGGCTGACATCTGTGTATGCCCGCCACAAAACACTGGC
AGGAATCGTCATGACCAAAGGCTTGGACACCAAAACAAGCGCAGGTCATCGTTCTGTCTCTGGGACCAAG
TGTATCAGCGGTGAGCACATCAGTGACCAGGGGCTGGTTGTCAACGACTGTCATGCTGAGATCGTGGCGA
GGCGGGCATTCTTCACTTCTCTACTCTCAGCTGGAGCTGCACTTGAGCAAGCATCAAGAGGACCCCGA
GAGATCAATATTCATACGTTTAAAGGAAGGAGGTTACAGGCTGCGAGAAAACATCCTCTTCCATCTTAC
GTGAGCACATCCCCTGTGGAGATGCCAGAGTCAACTCTCCATATGAAATCACCACAGACTTGAACAGCA
GCAAACACATCGTCAGGAAGTCCGAGGGCACCTGCGACCAAGATTGAGTCTGGGAAGGAACAGTCCC
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TGCACAGACAAGATTGCCAGCTGGAATGTGCTGGGACTACAAGGGCTCTCCTCTGTCACTTCATCGAGC
CTGTGTACCTCCACAGCATATTGTGGCAGCCTGCACCACCGGCCATCTTGCACGGGTGATGAGCCA
CAGGATGGAGGAATCGGCCAGCTGCCTGCCTCATACCGACAAAACAGGCCTCTCCTTAGTGGCGTGAGT
CACGCAGAGGCCCGGCAGCCAGGAAAGTCTCCCACTTCAAGTGCCTGGGTCGTTGGGAGCGCCGACC
TGGAGATCATTAAATGCCACCACTGGGAAGAGGAGCTGTGGGGGCTCATCCCGGCTCTGCAAAACAGTGT
TTCTGCTTGGTGGGCACGGCTGCATGGTAGGCTAAGCACACGGATCCCAAGCCATGGAGACACACCATCC
ATGTACTGTGAGGCCAAGCAGGGGGCTCACACCTACCAGTCTGTTAAACAGCAGCTCTTCAAGGCCTTTC
AGAAAGCCGGTCTTGGCACCTGGGTGAGAAAACACCGGAGCAAGATCAGTTTCTACTAAGTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210425 protein sequence
Red=Cloning site Green=Tags(s)

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MASVLGSGRGGGLSSQLKCKSKRRRRRSKRKDKVSIILSTFLAPFKYLSPGTTNTEDEDNLSTSSAEVK
ENRNVSNL GTRPLPPGDWARGSTPSVKKRPLEEGNGGHFCKLQLIWKLSWSVTPKNALVQLHELKPLG
QYRMVSQTGPVHAPVFAVAVEVNGLT FEGTGPTKKKAKMRAAEMALKSFVQFPNAFAQHLAMGSSTSPCT
DFTSDQADFPTL FKEFEPSSKNEDFPGCHPVDT EFLSSAYRRGRLLYHTLDLMGQALPDRSRLAPGALG
ERNPVVVLNLRSGLRVYVCLSETAEKPRVKS FVMVAVCV DGRTFEGSGRSKKLAKGQAAQALQALFDIRL
PGHIPSRSKSNLLPQDFADSVS QLV TQKFRELTVGLTSVYARHKTLAGIVMTKGLDTKQAQVIVLSSGTK
CISGEHISDQGLVYNDCHAEIVARRAFLHFLYSQLELHLSKHQEDPERSIFIRLKEGGYRLRENILFHLY
VSTSPCGDARVNSPYEITDNLSSKHIVRFRGHLRTKIESGEGTVPVRGPSAVQ TWDGILLGEQLITMS
CTDKIASWNVVLGQGALLCHFIEPVYLHSIIVGSLHHTGHLARVMSHRMEGIGQLPAS YRQNRPLL SGVS
HAEARQPGKSPHF SANWVVG SADLEIINATTGKRSCGSSRLCKHVFSAWWARLHGRLSTRIPSHGDTPS
MYCEAKQGAHTYQSVKQQLFKAFQKAGLGTWVRKPPEQDQFLLSL
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_052977

ORF Size: 2238 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: 5633 bp

RefSeq ORF: 2238 bp

Locus ID: 94191

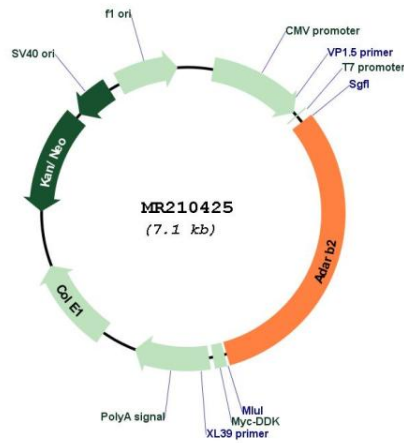
UniProt ID: [Q9JL20](#)

Cytogenetics: 13 A1

MW: 82.2 kDa

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]

Product images:



Circular map for MR210425