

## Product datasheet for **RR211937**

### Adarb2 (NM\_133302) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adarb2 (NM_133302) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adarb2
Synonyms:	Adar3; Red2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide  
Sequence:**

>RR211937 representing NM\_133302  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCATCTGTCCTGGGAGTGGCAGAGGGTCTGGAGGGCTAAGCAGTCAGCTCAAATGCAAGTCCAAGA  
 GGAGAAGGAGGAGAAGGTCCAAGAGGAAAGACAAAGTCAGCATACTGTCAACCTTCCTCGCTCCTTTCAA  
 GTACCTAAGTCCTGGCACCACAAACACGGAGGATGAAGACAATCTGAGTACCAGCAGTGTGAAGTGAAA  
 GAAAACCGAAATGTGAGCAACCTTGGGACCAGGCCCTGCCCTGGAGACTGGGCCAGAGGCGGCAGCA  
 CACCCAGCGTTAAAAGGAAAAGGCCGCTGGAGGAAGGAAATGGGGGACATTTCTGCAAATGCAGCTGAT  
 CTGGAAAAAATCTCCTGGTCTATGACACCAAGAATGCGCTGGTCCAGCTACATGAGCTGAAGCCGGT  
 CTTAGTACCGGATGGTGTACAGACTGGCCAGTGCACGCCAGTTCGCGCTGGTGTAGAAAGTAA  
 ACGGGCTCACGTTTGAAGGCACGGGCCACTAAGAAGAAGGCCAAGATGCGGGCAGCAGAGATGGCCCT  
 GAAGTCCTTCGTGCACTCCCAATGCATTCCAGGCCACCTGGCTATGGGCAGTAGTACCAGTCCGTGC  
 ACTGACTTCACCTCTGACCAAGCTGACTTCCCAGACACGTTGTTCAAGGAGTTCGAACCTCCTCAAGAA  
 ACGAGGATTTCCCGGGTGTGTGCCGTTGACTGAGTTTCTGTCTCTGCCTACCGGGCAGGACGGCT  
 GCTCTACCACACACTGGACCTCATGGGCCAGGCTCTGCCTGACAGGTCCAGGCTGGCTCCAGGGGCACTG  
 GGTGAGAGAAACCTGTAGTGGTGTGAATGAATTACGCTCAGGCTTTCGGTATGTGTGCCTCTCCGAGA  
 CAGCCGAGAAGCCCCGAGTCAAGAGCTTTGTGATGGCTGTGTGCGTGGACGGGAGGACGTTTCAAGGCTC  
 TGGACGCAGTAAAGCTGGCCAAGGGCCAAGCAGCACAAGCTGCCTTGCAGGCCCTCTTCGACATCCGG  
 CTGCCAGGTACATACCCAGCAGGAGTAAAAGCAAACCTTTGCCACAGGATTTTGCAGACTCTGTGTCTC  
 AGCTGGTCACACAGAAGTCCGTGAACCTGACAGTCCGGCTGACATCTGTGTATGCCCGCCACAAACT  
 GGCAGGAATCGTATGACCAAAGGCTTGGACACCAACAAGCACAGGTCATCGTTCTGTCTCTGGGACC  
 AAGTGTATCAGCGGTGAGCACATCAGTACCAGGGGCTGGTTGTCAACGACTGTCACGCTGAGATTGTGG  
 CAAGGCGAGCATTTCTTCACTTCTCTACACTCAGCTGGAGCTGCACTTGAAGCAAGCATCAAGAGGACCC  
 CGAGAGATCAATATTCATCCGTGTAAGGAAGGAGGCTACAGGCTGCGAGAAAACATCCTCTCCACCTC  
 TACGTGAGCACATCCCCTTGTGGAGACGCCAGACTCAACTCTCCCTATGAAATCACCATAGACTTGAACA  
 GCAGCAAACACATCGTCAGGAAGTCCGAGGGCACCTGCGCACCAAGATTGAGTCTGGGGAAGGAACAGT  
 CCCTGTGCGGGGCCAGTGCAGTCCAGACATGGGATGGCATCCTGCTGGGGAGCAGCTAGTACCATG  
 TCCTGCACAGACAAGATTGCCAGCTGGAATGTGCTGGGACTACAAGGCGCTCTCCTCTGTCACTTATCG  
 AGCCTGTGTACCTCCATAGCATATTGTGGGAAGCCTGCATCACACGGGCCACCTTGCACGGGTCATGAG  
 CCACAGGATGGAGGGCATCGGCCAACTGCCTGCCTCATACCGACAAAACAGGCCTCTCCTTAGTGGTGTG  
 AGTAACGCCGAGGCCCGGAGCCAGGAAAGTCTCCCCACTTCAAGTCCAAGTGGGTCGATAGGCGAGTCCG  
 ACCTGGAGATCATTAAATGCCACAAGTGGGAAGAGGAGCTGTGGGGGTTTCAATCCCGGCTCTGCAAGCAGT  
 GTTTTCTGCTCGGTGGGCACGGCTGCATGGTAGGCTAAGCACACGGATCCCAGGCCACGGAGACACACC  
 TCCATGTACTGTGAAGCCAAGCGGGGGCTCACACCTACCAGTCTGTTAAACAGCAGCTCTCAAGGCTT  
 TTCAGAAAGCTGGTCTTGGCACCTGGGTGAGAAAGCCACCAGAGCAAGATCAGTTTCTACTAAGTCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR211937 representing NM\_133302  
 Red=Cloning site Green=Tags(s)

MASVLGSGRGGGLSSQLKCKSKRRRRRSKRKDKVSIILSTFLAPFKYLSPGTTNTEDEDNLSTSSAEVK  
 ENRNVSNL GTRPLPPGDWARGGSTPSVKKRPLEEGNGGHFCKLQLIWKLSWSMTPKNALVQLHELKPG  
 LQYRMVSTGTPVHAPVF AVAVEVNGLTFEGTGPTKKKAKMRAAEMALKSFVQFPNAFQAHLAMGSSTSPC  
 TDFTSDQADFPDTLFKEFEPSSRNEDFPGCCPVDTEFLSSAYRRGRLLYHTLDLMGQALPDRSRLAPGAL  
 GERNPVVVLNELRSLRYVCLSETAEKPRVKSFVMAVCVDGRTFEGSGRSKKLAKGQAAQALQALFDIR  
 LPGHIPSRKSNLLPQDFADSVSQLVTQKFRELT VGLTSVYARHKTLAGIVMTKGLDTKQAQVIVLSSGT  
 KCISGEHISDQGLVVNDCHAEIVARRAFLHFLYTQLELHL SKHQEDPERSIFIRVKEGGYRLRENILFHL  
 YVSTSPCGDARLNSPYEITIDLNSSKHI VRKFRGHLRTKIESGEGTVPVRGPSAVQTDWGILLGEQLVTM  
 SCTDKIASWNLGLQGALLCHFIEPVYLHSIIVGSLHHTGHLARVMSHRMEGIGQLPASRYQRNRP LLSGV  
 SNAEARQPGKSPHFSANWVVGSALEIINATTGKRSCGGSRLCKHVFSARWARLHGRLSTRIPGHGDTP  
 SMYCEAKRGAHTYQSVKQQLFKAFQKAGLGTWVRKPPEQDQFLLSL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

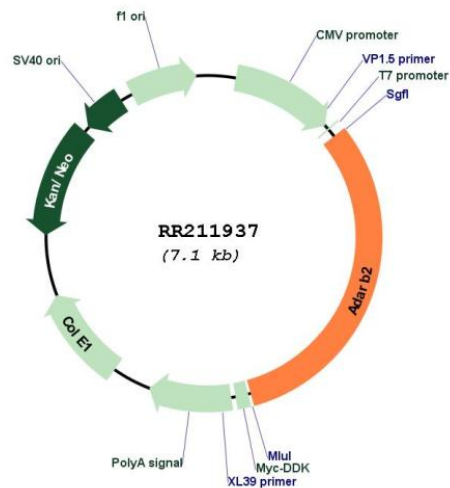
SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

## Plasmid Map:



ACCN: NM\_133302

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\\_133302.2](#), [NP\\_579836.1](#)

RefSeq Size: 2720 bp

RefSeq ORF: 2241 bp

Locus ID: 117088

UniProt ID: [P97616](#)

Cytogenetics: 17q12.1

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]