

## Product datasheet for **RC212379**

### **RED1 (ADARB1) (NM\_015834) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RED1 (ADARB1) (NM_015834) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RED1
Synonyms:	ADAR2; DRABA2; DRADA2; NEDHYMS; RED1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC212379 representing NM\_015834  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATATAGAAGATGAAGAAAACATGAGTTCACGAGCACTGATGTGAAGGAAAACCGCAATCTGGACA  
 ACGTGTCCCCAAGGATGGCAGCACACCTGGCCCTGGCGAGGGCTCTCAGCTCTCCAATGGGGTGGTGG  
 TGGCCCCGGCAGAAAGCGGCCCTGGAGGAGGGCAGCAATGGCCACTCCAAGTACCGCTGAAGAAAAGG  
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 ACTTCACATCTGACCAGGCCACTTCCCTGACACGCTCTTCAATGGTTTTGAAACTCCTGACAAGCGGA  
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 AGAATCCCGTGATGATCTTGAACGAACTGCGCCAGGACTCAAGTATGACTTCTCTCCGAGAGCGGGGA  
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 AAGAAGCTTGCCAAGGCCGGGCTGCGCAGTCTGCCCTGGCCGCATTTTAACTTGCACTTGGATCAGA  
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 CTCACGCTGGTCTGGTAAGTTTGGTACCTGACCGACAATCTCCTCCCTCAGCTCGCAGAAAA  
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 TCCAAGCTGGCGGCAAGGAGTACCAGGCCCAAGGTACAC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC212379 representing NM\_015834  
Red=Cloning site Green=Tags(s)

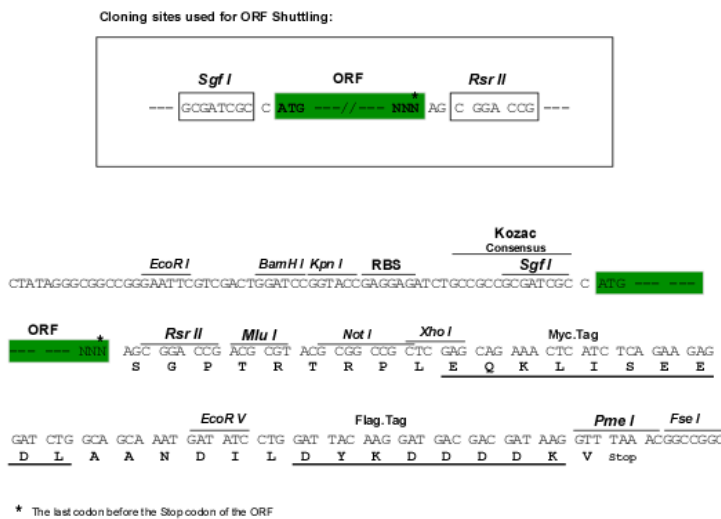
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MDIEDEENMSSSSTDVKENRNLDNVSPKDGSTPGPEGSQLSNGGGGGPGRKRPLEEGSNHGHSKYRLKKR
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SFVQFPNASEAHLAMGRTLSVNTDFTSDQADFPDRLFNGFETPDKAEPFVYVSGNGDDSFSSSGDLSLSA
SPVPASLAQPPLPVLPPFPPPSGKNPVMILNELRPGLKYDFLSESGESHAKSFVMSVVVDGQFFEGSGRN
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VLAGVMTTGTVDKAKVISVSTGKTCINGEYMSDRGLALNDCHAEIISRRSLLRFLYTQLELYLNKDD
QKRSIFQKSERGGFRLKENVQFHLYISTSPCGDARIFSPHEPILEGSRSYTQAGVQWCNHGSLQPRPPGL
LSDPSTSTFQAGTTEPADRHPNRKARGQLRTKIESGEGTIPVRSNASIQTDGVLQGERLLTMSGSDKI
ARWNVVGIQGSLLSIFVEPIYFSSIIILGSLYHGDHLSRAMYQRISNIEDLPPLYTLNKPILLSGINSNAEAR
QPGKAPNFVSNWTVGDSAIEVINATTGKDELGRASRLCKHALYCRWMRVHGKVPSSHLLRSKITKPNVYHE
SKLAAKEYQAAKVH
    
```

SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_015834

**ORF Size:** 2142 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\\_015834.4](#)

**RefSeq Size:** 3605 bp

**RefSeq ORF:** 2145 bp

**Locus ID:** 104

**UniProt ID:** [P78563](#)

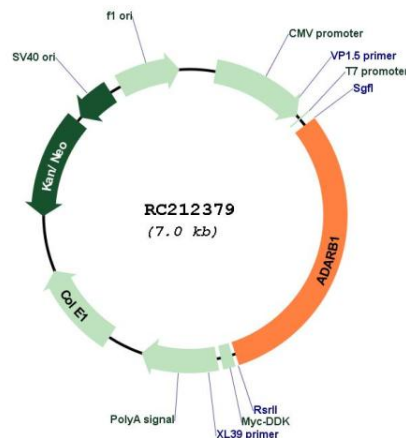
**Cytogenetics:** 21q22.3

**Protein Families:** Druggable Genome

**MW:** 77.8 kDa

**Gene Summary:** This gene encodes the enzyme responsible for pre-mRNA editing of the glutamate receptor subunit B by site-specific deamination of adenosines. Studies in rat found that this enzyme acted on its own pre-mRNA molecules to convert an AA dinucleotide to an AI dinucleotide which resulted in a new splice site. Alternative splicing of this gene results in several transcript variants, some of which have been characterized by the presence or absence of an ALU cassette insert and a short or long C-terminal region. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC212379