

## Product datasheet for **RG235050**

### **ADAR1 (ADAR) (NM\_001193495) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ADAR1 (ADAR) (NM_001193495) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADAR
Synonyms:	ADAR1; AGS6; DRADA; DSH; DSRAD; G1P1; IFI-4; IFI4; K88DSRBP; P136
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG235050 representing NM\_001193495  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGAGATCAAGGAGAAAATCTGCGACTATCTCTTCAATGTGTCTGACTCCTCTGCCCTGAATTTGG  
 CTAATAATATTGGCCTTACCAAGGCCCGAGATATAAATGCTGTGCTAATTGACATGGAAAGCAGGGGGA  
 TGTCTATAGACAAGGGACAACCCCTCCCATATGGCATTGACAGACAAGAAGCGAGAGAGGATGCAATC  
 AAGAGAAAACGAACAGTGTTCCTGAAACCCTCCAGCTGCAATCCCTGAGACAAAAGAAACGCAGAGT  
 TCCTCACCTGTAATATACCCACATCAAATGCCTCAAATAACATGGTAACCAAGAAAAGTGGAGAATGG  
 GCAGGAACCTGTCATAAAGTTAGAAAACAGGCAAGAGGCCAGACCAGAACCAGCAAGACTGAAACCCT  
 GTTCATTACAATGGCCCTCAAAGCAGGGTATGTTGACTTTGAAAATGGCCAGTGGCCACAGATGACA  
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 CACCCCATGAACCTCGATTTAAATTCAGGTTGTCATCAATGGCCGAGAGTTTCCCCAGCTGAAGCTGG  
 AAGCAAGAAAAGTGGCCAAGCAGGATGCAGCTATGAAAGCCATGACAATTCGCTAGAGGAAGCCAAGCC  
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 CAGTGACAGGGGCCAGTCTCAGAAGAACTATGCTCCTCCTCTCAAGTCCCAGAACACAGCCAAAGAC  
 ACTCCCTCACTGGCAGCACCTTCCATGACCAGATAGCCATGCTGAGCCACCGGTCTTCAACACTCTG  
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 AGGAGAAAAGTCAATGACTGCCATGCAGAAAATCTCCCGGAGAGGCTTCATCAGTTTCTCTACAGT  
 GAGTTAATGAAATACAATCCCAGACTGCGAAGGATAGTATATTTGAACCTGCTAAGGGAGGAGAAAAGC  
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 ATGGGCTATGGAACTGGATTAGCAAACCCAGGAGGAAAAGAACTTTTATCTCTGCCAGTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG235050 representing NM\_001193495  
 Red=Cloning site Green=Tags(s)

MAEIKEKICDYLFNVSDSSALNLAKNIGLTKARDINAVLIDMERQGDVYRQGTTPPIWHLTDKKRERMQI  
 KRNTNSVPETAPAAIPETKRNAEFLTCNIPTSNASNMMVTTEKVENGEPEVIKLENRQEARPEPARLKPP  
 VHYNGPSKAGYVDFENGQWATDDIPDDLNSIRAAPGEFRAIMEMPSFYSHGLPRCSPYKLLTECQLKNPI  
 SGLLEAYQFASQTCFNMIEQSGPPHEPRFKFQVVINGREFPPAEAGSKKQDAAMKAMTILLEEAKA  
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 FQYCVAVGAQTFPSVSAPSKKQMAAEEAMKALHGEATNSMASDNQPEGMISESLDNLESMPNPKVRK  
 IGELVRYLNTNPVGGLEAYARSHGFAAEFKLVDQSGPPHEPKFVYQAKVGGWFPVAVCAHKKQKQEA  
 DAALRVLIGENEAERMGFTEVTPVTGASLRRTMLLLSRSPAQPKTLPLTGSTFHDQIAMLSHRCFNTL  
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 ELMKYNSQTKADSI FEPAGGKELQIKKTVSFHLYISTAPCGDGFALDKSCSDRAMESTESRHYPVFENP  
 KQKGLRTRKVENGETIPVESSDIVPTWDGIRLGERLRTMSCSDKILRWNVLGLQGALLTHFLQPIYLKSV  
 TLGYLFSQGHLTRAIICCRVTRDGSAFEDGLRHPFIVNHPKVGRVSIYDSKRQSGTKETSVNWCLADGYD  
 LEILDGTRGTVDGPRNELSRVSKNIFLLFKLCSFRYRRDLLRLSYGEAKKAARDYETAKNYFKKGLKD  
 MGYGNWISKPQEEKNFYLCPV

TRTRPLE - GFP Tag - V

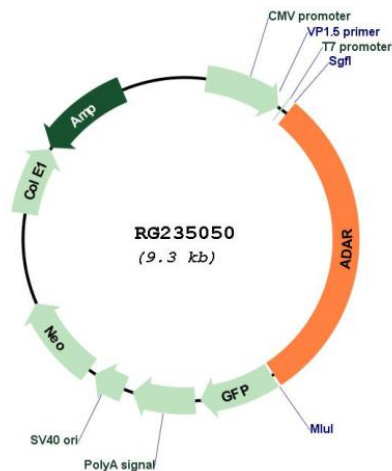
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_001193495

ORF Size: 2793 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\\_001193495.2](#)

RefSeq Size: 6730 bp

RefSeq ORF: 2796 bp

Locus ID: 103

UniProt ID: [P55265](#)

Cytogenetics: 1q21.3

**Protein Families:** Druggable Genome

**Protein Pathways:** Cytosolic DNA-sensing pathway

**Gene Summary:** This gene encodes the enzyme responsible for RNA editing by site-specific deamination of adenosines. This enzyme destabilizes double-stranded RNA through conversion of adenosine to inosine. Mutations in this gene have been associated with dyschromatosis symmetrica hereditaria. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2010]