

## Product datasheet for **RG219761**

### **ADAR1 (ADAR) (NM\_001025107) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ADAR1 (ADAR) (NM_001025107) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADAR1
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:**

>RG219761 representing NM\_001025107  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGAGATCAAGGAGAAAATCTGCGACTATCTCTTCAATGTGTCTGACTCCTCTGCCCTGAATTTGG  
 CTA AAAAATATTGGCCTTACCAAGGCCCGAGATATAAATGCTGTGCTAATTGACATGGAAAGCAGGGGGA  
 TGTCTATAGACAAGGGACAACCCCTCCCATATGGCATTGACAGACAAGAAGCGAGAGAGGATGCAATC  
 AAGAGAAAACGAACAGTGTTCCTGAAACCGCTCCAGCTGCAATCCCTGAGACAAAAGAAACGCAGAGT  
 TCCTCACCTGTAATATACCCACATCAAATGCCTCAAATAACATGGTAACCAAGAAAAGTGGAGAATGG  
 GCAGGAACCTGTCATAAAGTTAGAAAACAGGCAAGAGGCCAGACCAGAACCAGCAAGACTGAAACCACT  
 GTTCATTACAATGGCCCTCAAAGCAGGGTATGTTGACTTTGAAAATGGCCAGTGGGCCACAGATGACA  
 TCCAGATGACTTGAATAGTATCCGCGCAGCACCAGGTGAGTTTCGAGCCATCATGGAGATGCCCTCCTT  
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 AGCGGGCTGTTAGAATATGCCAGTTTCGCTAGTCAAACCTGTGAGTTCAACATGATAGAGCAGAGTGGAC  
 CACCCCATGAACCTCGATTTAAATTCAGGTTGTCATCAATGGCCGAGAGTTTCCCCAGCTGAAGCTGG  
 AAGCAAGAAAAGTGGCCAAGCAGGATGCAGCTATGAAAGCCATGACAATTCGCTAGAGGAAGCCAAGCC  
 AAGGACAGTGGAAAATCAGAAGAATCATCCCACTATCCACAGAGAAAAGAATCAGAGAAGACTGCAGAGT  
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 TTCCAATACTGTGTTGCAGTGGGAGCCAACTTCCCCAGTGTGAGTGTCCAGCAAGAAAAGTGGCAA  
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 CCAGCCTGAAGGTATGATCTCAGAGTCACTTGATAACTTGGAAATCCATGATGCCCAACAAGGTGAGGAAG  
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 GATGCGGCTCCTCGTGTCTTGTGGGAGAACGAGAAGCAGCAAGCAGTGGGTTTACAGAGGTAACCC  
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 AGGAGAAACTGTCAATGACTGCCATGCAGAAAATCTCCCGGAGAGGCTTCATCAGTTTCTCTACAGT  
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 CTGGAACGTGCTGGCCCTGCAAGGGGCACTGTTGACCCACTTCTGCAGCCCATTTATCTCAAATCTGTC  
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 GTGCATTTGAGGATGGACTACGACATCCCTTTATTGTCAACCACCCCAAGTTGGCAGAGTCAGCATATA  
 TGATTCAAAAGGCAATCCGGGAAGACTAAGGAGACAAGCGTCAACTGGTGTCTGGCTGATGGCTATGAC  
 CTGGAGATCCTGGACGGTACCAGAGGCACTGTGGATGGGCCACGGAATGAATTGCCCGGTCTCCAAAA  
 AGAACATTTTTCTTCTATTTAAGAAGCTCTGCTCCTTCCGTTACCGCAGGGATCTACTGAGACTCTCCTA  
 TGGTGAGGCCAAGAAAGCTGCCCGTACTACGAGACGGCAAGAAGTCTTCAAAAAGGCTGAAGGAT  
 ATGGGCTATGGAACTGGATTAGCAAACCCAGGAGGAAAAGAACTTTTATCTCTGCCAGTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG219761 representing NM\_001025107  
 Red=Cloning site Green=Tags(s)

MAEIKEKICDYLFNVSDSSALNLAKNIGLTKARDINAVLIDMERQGDVYRQGTTPPIWHLTDKKRERMQI  
 KRNTNSVPETAPAAIPETKRNAEFLTCNIPTSNASNMMVTTEKVENGEPEVIKLENRQEARPEPARLKPP  
 VHYNGPSKAGYVDFENGQWATDDIPDDLNSIRAAPGEFRAIMEMPSFYSHGLPRCSPYKLLTECQLKNPI  
 SGLLEYAQFASQTCFNMIEQSGPPHEPRFKFQVVINGREFPPAEAGSKKQDAAMKAMTILLEEAKA  
 KDSGKSEESSHYSTEKESEKTAESQTPPTSATSFSGKSPVTTLLECMHKLGNSCFRLLSKEGPAHEPK  
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 IGELVRYLNTNPVGGLEAYARSHGFAAEFKLVDQSGPPHEPKFVYQAKVGGRWFPVAVCAHKKQKQEA  
 DAALRVLIGENEAERMGFTEVTPVTGASLRRTMLLLSRSPAQPKTLPLTGSTFHDQIAMLSHRCFNTL  
 TNSFQPSLLGRKILAAIIMKKDSEDMGVVSLGTGNRCVKGDSLKGETVNDCHAEIISRGRFIRFLYS  
 ELMKYNSTAKDSIFEPAGGKELQIKKTVSFHLYISTAPCGDGFALDKSCSDRAMESTESRHYVPFENP  
 KQKGLRTRKVENEGTIPVESSDIVPTWDGIRLGERLRTMSCSDKILRWNVLGLQGALLTHFLQPIYLKSV  
 TLGYLFSQGHLTRAIICCRVTRDGSAFEDGLRHPFIVNHPKVGRVSIYDSKRQSGTKETSVNWCLADGYD  
 LEILDGTRGTVDGPRNELSRVSKNIFLLFKLCSFRYRRDLLRLSYGEAKKAARDYETAKNYFKKGLKD  
 MGYGNWISKPQEEKNFYLCPV

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

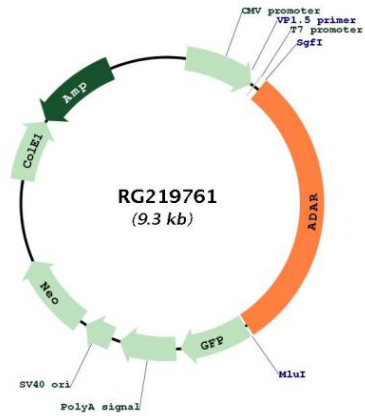
**Cloning Scheme:**



**ACCN:** NM\_001025107

<b>ORF Size:</b>	2793 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001025107.3</a>
<b>RefSeq Size:</b>	6532 bp
<b>RefSeq ORF:</b>	2796 bp
<b>Locus ID:</b>	103
<b>UniProt ID:</b>	<a href="#">P55265</a>
<b>Cytogenetics:</b>	1q21.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Cytosolic DNA-sensing pathway
<b>Gene Summary:</b>	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]

Product images:



Circular map for RG219761