

## Product datasheet for **SC302352**

### ADAR1 (ADAR) (NM\_001025107) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ADAR1 (ADAR) (NM_001025107) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAR1
Synonyms:	ADAR1; AGS6; DRADA; DSH; DSRAD; G1P1; IFI-4; IFI4; K88DSRBP; P136
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC302352 representing NM\_001025107  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGAGATCAAGGAGAAAATCTGCGACTATCTCTTCAATGTGTCTGACTCCTCTGCCCTGAATTTGG  
 CTA AAAAATATTGGCCTTACCAAGGCCCGAGATATAAATGCTGTGCTAATTGACATGGAAAGCAGGGGGA  
 TGTCTATAGACAAGGGACAACCCCTCCCATATGGCATTGACAGACAAGAAGCGAGAGAGGATGCAATC  
 AAGAGAAAACGAACAGTGTTCCTGAAACCCTCCAGCTGCAATCCCTGAGACAAAAGAAACGCAGAGT  
 TCCTCACCTGTAATATACCCACATCAAATGCCTCAAATAACATGGTAACCAAGAAAAGTGGAGAATGG  
 GCAGGAACCTGTCATAAAGTTAGAAAACAGGCAAGAGGCCAGACCAGAACCAGCAAGACTGAAACCCT  
 GTTCATTACAATGGCCCTCAAAGCAGGGTATGTTGACTTTGAAAATGGCCAGTGGGCCACAGATGACA  
 TCCAGATGACTTGAATAGTATCCGCGCAGCACCAGGTGAGTTTCGAGCCATCATGGAGATGCCCTCCT  
 CTACAGTCATGGCTTGCACGGTGTTCACCTACAAGAACTGACAGAGTGCCAGCTGAAGAACCCCATC  
 AGCGGGCTGTTAGAATATGCCAGTTTCGCTAGTCAAACCTGTGAGTTCAACATGATAGAGCAGAGTGGAC  
 CACCCCATGAACCTCGATTTAAATTCAGGTTGTCATCAATGGCCGAGAGTTTCCCCAGCTGAAGCTGG  
 AAGCAAGAAAAGTGGCCAAGCAGGATGCAGCTATGAAAGCCATGACAATTCGCTAGAGGAAGCCAAGCC  
 AAGGACAGTGGAAAATCAGAAGAATCATCCCACTATCCACAGAGAAAAGAAATCAGAGAAGACTGCAGAGT  
 CCCAGACCCCCACCCCTCAGCCACATCCTTCTTTTCTGGGAAGAGCCCCGTACCACACTGCTTGAGTG  
 TATGCACAAAATGGGGAACTCCTGCGAATTCGCTCCTGTCCAAAGAAGGCCCTGCCATGAACCCAAG  
 TTCCAATACTGTGTTGCAGTGGGAGCCAAACTTCCCCAGTGTGAGTGTCTCCAGCAAGAAAAGTGCA  
 AGCAGTGGCCGAGAGGAAGCCATGAAGGCCCTGCATGGGGAGGCGACCAACTCCATGGCTTCTGATA  
 CCAGCCTGAAGGTATGATCTCAGAGTCACTTGATAACTTGGAAATCCATGATGCCCAACAAGGTGAGGAA  
 ATTGGCGAGCTCGTGAGATACCTGAACCAACCCCTGTGGGTGGCCTTTTGGAGTACGCCCGCTCCCATG  
 GCTTTGCTGCTGAATCAAGTTGGTTCGACCAGTCCGGACCTCCTCACGAGCCCAAGTTTCGTTTACCAAGC  
 AAAAGTTGGGGTTCGCTGGTTCCAGCCGTCTGCGCACACAGCAAGAAGCAAGGCAAGCAGGAAGCAGCA  
 GATGCGGCTCCTCGTGTCTTGTGGGAGAACGAGAAGCAGAACGCATGGGTTTACAGAGGTAACCC  
 CAGTGACAGGGCCAGTCTCAGAAGAACTATGCTCCTCCTCTCAAGTCCCAGAACACAGCCAAAGAC  
 ACTCCCTCACTGGCAGCACCTTCCATGACCAGATAGCCATGCTGAGCCACCGGTCTTCAACACTCTG  
 ACTAACAGCTTCCAGCCCTCCTTGTCTGCGCCGCAAGATTCTGGCCGCATCATTATGAAAAAGACTCTG  
 AGGACATGGGTGTCTGCTCAGCTTGGGAACAGGGAATCGCTGTGTAAGGAGATTCTCTCAGCCTAAA  
 AGGAGAAACTGTCAATGACTGCCATGCAGAAAATATCTCCCGGAGAGGCTTCATCAGTTTCTCTACAGT  
 GAGTTAATGAAATACAATCCCAGACTGCGAAGGATAGTATATTTGAACCTGCTAAGGGAGGAGAAAAGC  
 TCCAAAATAAAAAGACTGTGTCATTCCATCTGTATATCAGCACTGCTCCGTGTGGAGATGGCGCCCTCT  
 TGACAAGTCTGCAGCGACCGTGTATGGAAAGCACAGAATCCCGCCACTACCCTGTCTTCGAGAATCCC  
 AAACAAGGAAAGCTCCGCACCAAGGTGGAGAACGGAGAAGGCACAATCCCTGTGGAATCCAGTGACATTG  
 TGCTACGTGGGATGGCATTTCGGCTCGGGGAGAGACTCCGTACCATGTCTGTAGTGACAAAATCCTACG  
 CTGGAACGTGCTGGCCCTGCAAGGGGCACTGTTGACCCACTTCTGCAGCCCATTTATCTCAAATCTGTC  
 ACATTGGTTACCTTTTACCCAAGGGCATCTGACCCGTGCTATTTGCTGTCTGTGACAAGAGATGGGA  
 GTGCATTTGAGGATGACTACGACATCCCTTTATTGTCAACCACCCCAAGTTGGCAGAGTACGATATA  
 TGATTCCAAAAGGCAATCCGGGAAGACTAAGGAGACAAGCGTCAACTGGTGTCTGGCTGATGGCTATGAC  
 CTGGAGATCCTGGACGGTACCAGAGGCACTGTGGATGGGCCACGGAATGAATTGCCCCGGTCTCCAAAA  
 AGAACATTTTTCTTCTATTTAAGAAGCTCTGCTCCTTCCGTTACCGCAGGGATCTACTGAGACTCTCCTA  
 TGGTGAGGCCAAGAAAGCTGCCCGTACTACGAGACGGCAAGAAGTACTTCAAAAAGGCTGAAGGAT  
 ATGGGCTATGGAACTGGATTAGCAAACCCAGGAGGAAAAGAACTTTTATCTCTGCCAGTATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Please inquire

<b>ACCN:</b>	NM_001025107
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_001025107.1</a> , <a href="#">NP_001020278.1</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

**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]

Transcript Variant: This variant (4) differs in the 5' UTR, lacks a portion of the 5' coding region, and uses a downstream start codon, compared to variant 1. The resulting isoform (d) is shorter at the N-terminus, compared to isoform a. Variants 4, 5, 7, 8, and 9, encode the same isoform. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.