

Product datasheet for **SC309439**

ADAR1 (ADAR) (NM_015841) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAR1 (ADAR) (NM_015841) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAR1
Synonyms:	ADAR1; AGS6; DRADA; DSH; DSRAD; G1P1; IFI-4; IFI4; K88DSRBP; P136
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_015841 edited
 CTTGGCCCGGCGCAGACCCGCGGAGTTTCCCGTGCCGACGCCCGGGGCCACTTCCA
 GTGCGGAGTAGCGGAGGCGTGGGGCCTCGAGGGGCTGGCGCGCCAGCGGTGCGGCCA
 GGGTCGTGCCCGCGGGTTCGGGCCGGCAATGCCTCGCGGGCGCAATGAATCCGCGGC
 AGGGGTATTCCCTCAGCGGATACTACACCCATCCATTTCAAGGCTATGAGCACAGACAGC
 TCAGATACCAGCAGCCTGGGCCAGGATCTTCCCCAGTAGTTTCTGCTTAAGCAAATAG
 AATTTCTCAAGGGCAGCTCCAGAAGCACCGGTGATTGGAAAGCAGACACCGTCACTGC
 CACCTTCCCTCCAGGACTCCGGCCAAGGTTTCCAGTACTACTTGCTCCAGTACCAGAG
 GCAGGCAAGTGGACATCAGGGGTGTCCCAGGGGCGTGCATCTCGGAAGTCAGGGGCTCC
 AGAGAGGGTTCAGCATCCTTACCACGTGGCAGGAGTCTGCCACAGAGAGGTGTTGATT
 GCCTTTCTCACATTTCCAGGAAGTCTACCAAGATCAGGAACAAAGGATCTTAA
 AGTTCTGGAAGAGCTTGGGGAAGGGAAGGCCACCACAGCACATGATCTGTCTGGGAAAC
 TTGGGACTCCGAAGAAAGAAATCAATCGAGTTTTATACTCCCTGGCAAAGAAGGGCAAGC
 TACAGAAAGAGGCAAGAACACCCCTTTGTGAAAATCGCGGTCTCCACTCAGGCTTGGAA
 ACCAGCACAGCGGAGTGGTAAGACCAGACGGTCAAGCCAAGGAGCCCCAAACTCAGACC
 CGAGTTTGGAAACCGAAGACAGAAACTCCACATCTGTCTCAGAAGATCTTCTTGAGCCTT
 TTATTGCACTCAGCTCAGGCTTGAACCAGCACAGCGGAGTGGTAAGACCAGACAGTC
 ATAGCCAAGGATCCCCAAACTCAGACCCAGGTTTGAACCTGAAGACAGCAACTCCACAT
 CTGCCTTGAAGATCCTCTTGAGTTTTAGACATGGCCGAGATCAAGGAGAAAATCTGCG
 ACTATCTCTCAATGTGCTGACTCCTCTGCCCTGAATTTGGCTAAAAATATTGGCCTTA
 CCAAGGCCGAGATATAAATGCTGTGCTAATTGACATGGAAGGCAAGGGGATGTCTATA
 GACAAGGGACAACCCCTCCCATATGGCATTGACAGACAAGAAGCGAGAGAGGATGCAAA
 TCAAGAGAAATACGAACAGTGTTCCTGAAACCGCTCCAGCTGCAATCCCTGAGACCAGAA
 GAAACGCAGAGTTCCTCACCTGTAATATACCCACATCAAATGCCTCAAATAACATGGTAA
 CCACAGAAAAAGTGGAGAATGGCAGGAACCTGTCATAAAGTTAGAAAACAGGCAAGAGG
 CCAGACCAGAACCAGCAAGACTGAAACCACTGTTCAATACAATGGCCCCCTAAAAGCAG
 GGTATGTTGACTTTGAAAATGGCCAGTGGGCCACAGATGACATCCAGATGACTTGAATA



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GTATCCGCGCAGCACCAGGTGAGTTTCGAGCCATCATGGAGATGCCCTCCTTCTACAGTC
 ATGGCTTGCCACGGTGTTCAACCTACAAGAACTGACAGAGTGCCAGCTGAAGAACCCCA
 TCAGCGGGCTGTTAGAATATGCCAGTTCGCTAGTCAAACCTGTGAGTTCACATGATAG
 AGCAGAGTGGACCACCCCATGAACCTCGATTTAAATCCAGGTTGTCATCAATGGCCGAG
 AGTTTTCCCCCAGCTGAAGCTGGAAGCAAGAAAGTGCCAAAGCAGGATGCAGCTATGAAAG
 CCATGACAATTCGTAGAGGAAGCCAAAGCCAAGGACAGTGGAAAATCAGAAGAATCAT
 CCCACTATTCACAGAGAAGAATCAGAGAAGACTGCAGAGTCCCAGACCCCCACCCTT
 CAGCCACATCCTTCTTTTCTGGGAAGAGCCCGTCACCACACTGCTTGAGTGTATGCACA
 AATTGGGGAACCTCTGCGAATTCCTGTCTCTGTCCAAAGAAAGGCCCTGCCCATGAACCCA
 AGTTCCAATACTGTGTTGCAGTGGGAGCCAAACTTTCCCAAGTGTGAGTGTCCAGCA
 AGAAAGTGGCAAAGCAGATGGCCGAGAGGAAGCCATGAAGGCCCTGCATGGGGAGGCGA
 CCAACTCCATGGCTTCTGATAACCAGGTCAGGAAGATTGGCGAGCTCGTGAGATACCTGA
 ACACCAACCTGTGGTGGCCTTTTGGAGTACGCCGCTCCCATGGCTTGTGTGTAAT
 TCAAGTTGGTCGACCAGTCCGGACCTCCTCACGAGCCCAAGTTCGTTTACCAAGCAAAAAG
 TTGGGGTTCGCTGTTCCAGCCGTCTGCGCACACAGCAAGAAGCAAGGCAAGCAGGAAG
 CAGCAGATGCGGCTCTCCGTGTCTTGATTGGGGAGAACGAGAAGCAGAACGCATGGGTT
 TCACAGAGCTCCCTCTCACTGGCAGCACCTTCCATGACCAGATAGCCATGCTGAGCCACC
 GGTGCTTCAACACTCTGACTAACAGCTTCCAGCCCTCCTTGTCTCGGCCGCAAGATTCTGG
 CCGCCATCATTATGAAAAAGACTCTGAGGACATGGGTGTGTCGTCAGCTTGGGAACAG
 GGAATCGCTGTGTGAAAGGAGATTCTCTCAGCCTAAAAGGAGAACTGTCAATGACTGCC
 ATGCAGAAATAATCTCCCGGAGAGGCTTCATCAGGTTTCTCTACAGTGTGTTAATGAAAT
 ACAACTCCAGACTGCGAAGGATAGTATATTTGAACCTGCTAAGGGAGGAGAAAAGCTCC
 AAATAAAAAAGACTGTGTCATTTCCATCTGTATATCAGCACTGCTCCGTGTGGAGATGGCG
 CCCTCTTTGACAAGTCTGCAGCGACCGTGTATGGAAAAGCACAGAATCCCGCCACTACC
 CTGTCTTCGAGAATCCCAACAAGGAAAGCTCCGACCAAGGTGGAGAACGGAGAAGGCA
 CAATCCCTGTGGAATCCAGTGACATTGTGCCTACGTGGGATGGCATTGCGCTCGGGGAGA
 GACTCCGTACCATGTCCTGTAGTGACAAAATCCTACGCTGGAACGTGCTGGGCCTGCAAG
 GGGCACTGTTGACCCACTTCTGCAGCCATTTATCTCAAATCTGTACATTGGGTTACC
 TTTTCAGCCAAGGGCATCTGACCCGTGCTATTTGCTGTCGTGTGACAAGAGATGGGAGTG
 CATTGAGGATGGACTACGACATCCCTTATTGTCAACCACCCCAAGGTTGGCAGAGTCA
 GCATATATGATTCAAAAGGCAATCCGGGAAGACTAAGGAGACAAGCGTCAACTGGTGTG
 TGGCTGATGGCTATGACCTGGAGATCCTGGACGTTACCAGAGGCACTGTGGATGGCCAC
 GGAATGAATTGTCCCGGGTCTCCAAAAGAACATTTTTCTTCTATTTAAGAAAGCTGTGCT
 CCTTCCGTTACCGCAGGGATCTACTGAGACTCTCCTATGGTGAGGCCAAGAAAGCTGCC
 GTGACTACGAGACGGCCAAGAATACTTCAAAAAGGCCGTAAGGATATGGGCTATGGGA
 ACTGGATTAGCAAACCCAGGAGGAAAAGAACTTTTATCTCTGCCAGTATAGTATGCTC
 CAGTGACAGATGGATTAGGGTGTGTCATACTAGGGTGTGAGAGAGGTAGGTCGTAGCATT
 CCTCATCATGGTCAGGGGATTTTTTTTTCTCCTTTTTTTTTCTTTTTAAGCCATAAT
 GGTGATACTGAAAACCTTGGGTTCCATTTATCCTGCTTTCTTTGGGATTGCTAGGCAAG
 GTCTGGCCAGGCCCTTTTTTCCCCCAAGTGAAGAGGCAGAAACCTAAGAAATTATCT
 TTTCTTTCTACCCAAAGCATAACATAGTCACTGAGCACCTGCGGTCCATTTCTCTTAAAA
 GTTTTGTGTTGATTTGTTTCCATTTCTTTCCCTTTGTGTTTGTACTGACTGACCTTTGC
 GGTCTTGATTAGGTTTTCAGTCAACTCTGGATCATGTCAGGGACTGATAATTTCAATTTGTG
 GATTACGAGACCCCTCTACTTCCCTCTTTCCCTTCTGAGATTCTTTCTTTGTGATCTG
 AATGTCTCCTTTTCCCTCAGAGGGCAAAGAGGTGAACATAAAGGATTTGGTGAACAT
 TTGTAAGGGTAGGAGTTGAAAACGAGTCCCAGTGCCACGGAAGTGTGATTGGAGCCT
 GCAGATAATGCCAGCCATCCTCCATCCTGCATTTAGCCAGCTGCAGGGCGGGAAGG
 CAAGAAAGCTGCTTCCCTGGAAGTGTACTTTCTCCGGCAGCTGGGAAGTCTAGAA

Restriction Sites:

Please inquire

ACCN:

NM_015841

Insert Size:	4400 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
OTI Annotation:	There are 2 nucleotide differences between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These result in the substitution of 1 amino acid.
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:	<ol style="list-style-type: none"> 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_015841.2 , NP_056656.2
RefSeq Size:	6505 bp
RefSeq ORF:	3546 bp
Locus ID:	103
UniProt ID:	P55265
Cytogenetics:	1q21.3
Domains:	z-alpha, DSRM, A_deamin
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]

Transcript Variant: This variant (3) uses two alternate in-frame splice sites in the central coding region, compared to variant 1, resulting in an isoform (c, also referred to as ADAR-c) that is shorter than isoform a. There are no publicly available full-length transcripts representing this variant; it is represented based on data in PMID:9020165 and annotation on DNA accession U75503.1. 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.