

Product datasheet for SC119438

ADAR1 (ADAR) (NM_001111) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAR1 (ADAR) (NM_001111) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAR
Synonyms:	ADAR1; AGS6; DRADA; DSH; DSRAD; G1P1; IFI-4; IFI4; K88DSRBP; P136
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC119438 sequence for NM_001111 edited (data generated by NextGen Sequencing)

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ATGAATCCGCGGAGGGGTATCCCTCAGCGGATACTACACCCATCCATTCAAGGCTAT
GAGCACAGACAGCTCAGATACCAGCAGCCTGGGCCAGGATCTTCCCCAGTAGTTTCCTG
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AGAGGTGTTGATTGCCTTTCCTCACATTTCCAGGAACTGAGTATCTACCAAGATCAGGAA
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TTTTATCTCTGCCAGTATAG

Clone variation with respect to NM_001111.4
78 g=>a;1151 a=>r

5' Read Nucleotide Sequence: >OriGene 5' read for NM_001111 unedited
 TAACCCCCGCCGTTGNCGCAAAGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGC
 AGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCG
 AATTCCGGCAGCAGGCTTGGGCCCGCGCAGACCCGCGGAGTTTCCCGTGCCGACGCC
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 AAGTCAGGGGCTCCAGAGAGGGTNCAGCATCCTTACCACGTGGCAGGAGTCTGCCAG
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 CAGCTCAGAAGAGGCAGAACCCCTTGTGAAAAACGGGCTCCCTCAGCTTGGACCCAGC
 GGGGTGGGTAAGACCAACGGCTAGCCAGGGCCACTAACCCCGTTTGGACCCGGAA

3' Read Nucleotide Sequence: >OriGene 3' read for NM_001111 unedited
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 ATTCTTGTTTTTTTTTTATTTATGAGGAATGTATATTGTTAAGTCACTGTTATCAAGGGA
 CACATAAAGCAGAATCATAAACTGGACTGCAGCCATCATCACAGTACCCGAGTCTATG
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 ATCAAGGAATGCACAGTAGCCACAGTTCAGACAAATCAACTACAAAAATCATAAAAAAG
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 GAAAACCAAAACCTTTTTGCCCGGAATTGGGTGCCCAAATGTTTTATGTTGCCCCCA
 TAAACCAAGCCGGGAGAGGGCTTTTTCACTTTTGGAAAAGGGCCCTTTTCTACCATT

Restriction Sites: NotI-NotI
ACCN: NM_001111
Insert Size: 7000 bp

OTI Disclaimer: 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.

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](#)

RefSeq: [NM_001111.3](#), [NP_001102.2](#)

RefSeq Size: 6640 bp

RefSeq ORF: 3681 bp

Locus ID: 103

UniProt ID: [P55265](#)

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 (1) encodes isoform (a, also referred to as ADAR-a).