

Product datasheet for **RC201044**

ADAT1 (NM_012091) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAT1 (NM_012091) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADAT1
Synonyms:	HADAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC201044 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGACCGCGGATGAGATTGCTCAGCTATGCTATGAACACTATGGGATCAGGCTGCCAAGAAGGGGA
 AGCCTGAGCCAAACCATGAGTGGACATTATTGGCAGCGGTGGTGAAGATACAATCTCCAGCTGACAAGGC
 CTGCGACACCCCTGATAAGCCGGTGCAAGTGACAAAGGAAGTTGTGTCAATGGGAACAGGAACAAAATGC
 ATAGGACAGTCCAAAATGAGGAAGAACGGAGACATCCTCAATGATAGCCATGCTGAGGTCATAGCCAGAA
 GGAGTTTCCAAAGGTACCTTCTCCACCAACTCCAGTTGGCAGCCACCCTGAAAGAGGATAGCATCTTTGT
 CCCAGGAACTCAAAAAGGAGTGTGGAACTTAGACGAGACCTCATTTTTGTGTTTTCTCCAGCCATACA
 CCCTGTGGGGATGCCTCCATCATTCCGATGCTTGAGTTTGAAGATCAGCCTTGCTGTCTGTCTTCAGAA
 ATTTGGGCCACAACCTCATCAGTAGAAGCCAGTAGTAACCTGGAAGCTCCTGGAAATGAAAGAAAATGTGA
 AGACCCTGACAGTCTGTAAACAAAAGATGAGGCTTGAGCCTGGGACTGCAGCCAGGGAGGTCACCAAC
 GGAGCAGCTCACCATCAGAGTTTTGGCAAGCAGAAAAGTGGCCCAATCTACCAGGCATCCACAGCTGTG
 ATCTCACTGTAGAGGGACTGGCTACTGTACCAGAATAGCCCCTGGTAGTGCCAAAGTGATAGACGTTTA
 TAGAACTGGAGCCAAGTGTGTACCTGGAGAAGCTGGAGACTCCGGAAAGCCGGGTGCTGCCTTCCACAG
 GTGGGGCTGCTCCGAGTGAAGCCAGGCCGTGGAGACAGAACACGCTCCATGTCTGTAGTGACAAGATGG
 CCCGATGGAACGTCCTCGGATGCCAAGGGGCACTGTTGATGCACTTGCTGGAAGAGCCATCTACCTGTC
 AGCTGTGGTCATTGGGAAGTGCCCATACAGCCAGGAAGCCATGCAGAGAGCACTGATTGGAAGGTGTCAG
 AATGTGTCTGCTTTACAAAAGGCTTCGGAGTTCAAGAATTAATAACTGCAGTCAGATTTACTATTTG
 AACAGACCCGAGTGCAGTGCAGGCAAAAAGGGCTGATAGCCAGGTCGACTTGTCTTGTGGGGCAGC
 CATCAGCTGGAGTGCAGTTCCTGAGCAGCCTTTGGATGTTACTGCCAATGGCTTTCCACAGGGAACAACA
 AAGAAAACAATTGGAAGCCTTCAGGCAAGATCCCAAATCAGCAAAGTGGAACTCTTCAGATCATTCCAGA
 AGCTGCTAAGCAGAATTGCAAGGACAAGTGGCCACACTCCCTCAGGGTGCAGAAGCTGGATACCTACCA
 GGAGTACAAGGAGGCTGCGTCTCTTACCAGGAAGCCTGGAGCACACTCCGGAAGCAGGTGTTTGGATCC
 TGGATCAGAAACCCACCGGATTATCACCAGTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201044 protein sequence
 Red=Cloning site Green=Tags(s)

MWTADEIAQLCYEHYGIKPKKPKPEPNHEWTLAAVVKIQSPADKACDTPDKPVQVTKVSMGTGKTC
 IGQSKMRKNGDILNDSHAIEVIARRSFQRYLLHQLLAATLKEDSIFVPGTQKGVWKLRRDLIFVFFSSHT
 PCGDASIIIPMLEFEDQPCCPVFRNWAHNSVEASSNLEAPGNERKCEDPDPVTKMRLPEPMTAAREVTN
 GAAHQSFQKQKSGPI SPGIHSCDLTVEGLATVTRIPGSAKVIDVYRTGAKCVPGEAGDSGKPGAFFHQ
 VGLLRVKPGRGDRTRMSCSDKMARWNLGCQGALLMHLLEPIYL SAVVIGKCPYSQEA MQRALIGRCQ
 NVSALPKGFVQELKILQSDLLFEQSRSVQAKRADSPGRLVPCGAAISWSAVPEQLDVTANGFPQGT
 KKTIGSLQARSQISKVELFRSFQKLLSRIARDKWPMSLRVQKLDTYQEYKEAASSYQEAWSLTKQVFGS
 WIRNPPDYHQFK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6572_b12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_012091

ORF Size: 1506 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_012091.5](#)

RefSeq Size: 3545 bp

RefSeq ORF: 1509 bp

Locus ID: 23536

UniProt ID: [Q9BUB4](#)

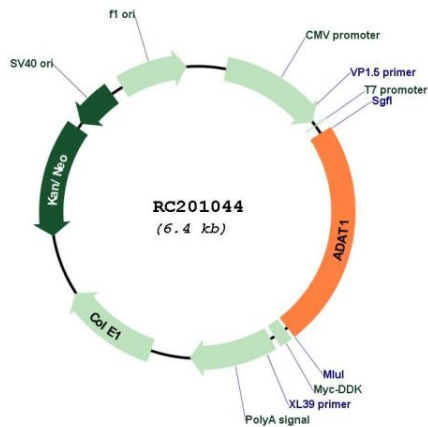
Cytogenetics: 16q23.1

Domains: A_deamin

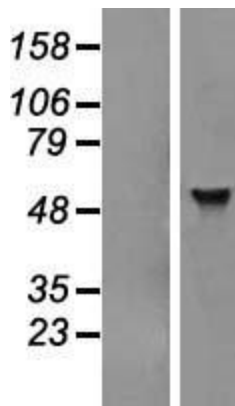
MW: 55.4 kDa

Gene Summary: This gene is a member of the ADAR (adenosine deaminase acting on RNA) family. Using site-specific adenosine modification, proteins encoded by these genes participate in the pre-mRNA editing of nuclear transcripts. The protein encoded by this gene, tRNA-specific adenosine deaminase 1, is responsible for the deamination of adenosine 37 to inosine in eukaryotic tRNA. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jul 2010]

Product images:



Circular map for RC201044



Western blot validation of overexpression lysate (Cat# [LY415994]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201044 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).