

Product datasheet for **MR207245**

Adat1 (BC019976) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adat1 (BC019976) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adat1
Synonyms:	mADAT1, MMADAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207245 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGACCGCGGATGAGATCGCTCAGCTGTGCTATGCACACTATAACGTCAGACTGCCCAAGCAGGGGA
 AGCCTGAGCCAAATCGTGAGTGGACCTTCTGGCAGCTGTGGTGAAGATTCAGGCTTCAGCTAACCAAGC
 TTGTGACATCCCTGAGAAGGAAGTGCAAGTGACAAAGGAAGTTGTCTCAATGGGAACAGGAACAAAATGC
 ATAGGCCAGTCCAAGATGCGAGAGAGCGGGGACATCCTCAATGACAGCCATGCTGAGATCATAGCCAGAA
 GGAGTTTCCAGAGATACCTTCTCCATCAGCTCCATTTGGCAGCCGCTCTGAAAGAGGATAGCATCTTTGT
 TCCAGGGACCCAAAGAGGACTGTGGAGGCTCAGACCTGACCTGTCGTTTGTGTTTTCTAGCCACACA
 CCCTGTGGGGATGCCTCCATCATCCGATGCTCGAGTTTGAAGAACAGCCTTGTGTCCTGTCATCAGAA
 GTTGGGCCAACAACTCACCTGTACAAGAGACTGAGAATCTAGAGGATTCTAAAGATAAAAGGAAGCTGTA
 AGATCCCGCCAGTCTGTAGCCAAGAAGATGAGGCTGGGAACACCTGCCAGGTCCTCAATTGTGTA
 GCTCACCATGGGACCCAGGAAAGTGGTCCAGTCAAACCAGATGTCAGCAGCTCTGATCTCACCAAGGAGG
 AACCGATGCTGCCAATGGAATAGCTTCAGGTAGCTTCAGAGTGGTGGATGTGTACAGGACGGGAGCCAA
 GTGTGTTCTGGAGAAACTGGAGACTTGAGAGAGCCAGGTGCTGCCTACCACCAGGTGGGGCTACTTCGT
 GTAAAACCTGGCAGGGGAGACAGGACATGCTCCATGTCCTGCAGTGACAAGATGGCAAGGTGGAATGTCC
 TCGGATGCCAGGGCGCACTGCTGATGCACCTTCTGGAGAAGCCTATCTACCTGTCAGCTGTGGTCATCGG
 GAAGTGCCCGTACAGCCAGGAAGCCATGAGGAGAGCATTGACTGGCAGGTGTGAGGAAACCTTGGTTTTA
 CCCAGAGGCTTTGGAGTCAAGAAGTGGAAATACAGCAGTCCGGTTTACTGTTTGAACAGAGCCGCTGTG
 CGGTGCACAGGAAAAGAGGTGACAGTCCAGGCCGACTCGTCCCTGTGGGGCAGCATCAGCTGGAGCGC
 TGTCCTCAGCAGCCCTTGGATGTTACAGCCAATGGTTTTCCACAGGGAACAACAAGAAAGAGATTGGA
 AGCCCTAGGGCCAGATCCGAATCAGCAAGGTGGAAGCTTTAGATCATTCCAGAAGCTGCTGAGCAGCA
 TTGCAGATGACGAGCAGCCAGACTCCATCAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207245 protein sequence
 Red=Cloning site Green=Tags(s)

MWTADEIAQLCYAHYNVRLPKQGKPEPNREWTLA AVVKIQASANQACDIPEKEVQVTKEVVSMGTGKIC
 IGQSKMRESGDI LND SHAEI IARRSFQRYLLHQLHLA AVLKEDSIFVPGTQRGLWRLRPDLSFVFFSSHT
 PCGDASIIPMLEFEEQPCCPVIRSWANNSPVQETENLEDSKDKRNCEDPASPVAKKMRLGTPARLSNVC
 AHHGTQESGPVKPDVSSSDLTKEEPDAANGIASGSFRVVDVYRTGAKCVPGETGDLREPGAAYHQVGLLR
 VKPGRGDRTCMSKSDKMARWNLGCQGALLMHFLEKPIYLSAVVIGKCPYSQEAMRRAL TGRCEETLVL
 PRGFVQGELEIQQSGLLFEQSRCAVHRKRGDSPGRLVPCGAAISWSAVPQQPLDVTANGFPQGTTKKEIG
 SPRARSRI SKVELFRSFQKLLSSIADDEQPDSIR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC019976

ORF Size: 1362 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: [BC019976](#), [AAH19976](#)

RefSeq Size: 2036 bp

RefSeq ORF: 1364 bp

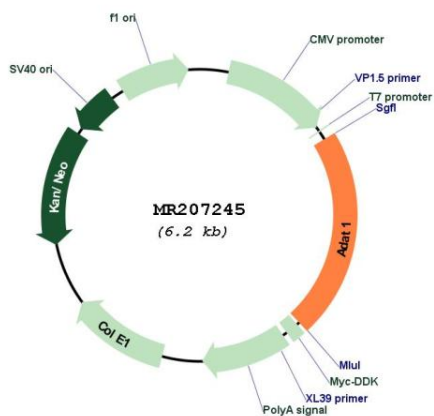
Locus ID: 30947

Cytogenetics: 8 E1

MW: 50 kDa

Gene Summary: Specifically deaminates adenosine-37 to inosine in tRNA-Ala.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207245