

Product datasheet for **MG207245**

Adat1 (BC019976) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adat1 (BC019976) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adat1
Synonyms:	mADAT1, MMADAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207245 representing BC019976
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGACCGCGGATGAGATCGCTCAGCTGTGCTATGCACACTATAACGTCAGACTGCCCAAGCAGGGGA
 AGCCTGAGCCAAATCGTGAGTGGACCTTCTGGCAGCTGTGGTGAAGATTCAGGCTTCAGCTAACCAAGC
 TTGTGACATCCCTGAGAAGGAAGTGCAAGTGACAAAGGAAGTTGTCTCAATGGGAACAGGAACAAAATGC
 ATAGGCCAGTCCAAGATGCGAGAGAGCGGGGACATCCTCAATGACAGCCATGCTGAGATCATAGCCAGAA
 GGAGTTTCCAGAGATACCTTCTCCATCAGCTCCATTTGGCAGCCGCTCTGAAAGAGGATAGCATCTTTGT
 TCCAGGGACCCAAAGAGGACTGTGGAGGCTCAGACCTGACCTGTCGTTTGTGTTTTCTCTAGCCACACA
 CCCTGTGGGGATGCCTCCATCATCCGATGCTCGAGTTTGAAGAACAGCCTTGTGTCCTGTCATCAGAA
 GTTGGGCCAACAACTCACCTGTACAAGAGACTGAGAATCTAGAGGATTCTAAAGATAAAAGGAAGCTGTA
 AGATCCCAGTCCCTGTAGCCAAGAAGATGAGGCTGGGAACACCTGCCAGGTCCTCCAATTGTGTA
 GCTCACCATGGGACCCAGGAAAGTGGTCCAGTCAAACCAGATGTACAGCAGCTCTGATCTACCAAGGAGG
 AACCGATGCTGCCAATGGAATAGCTTCAGGTAGCTTCAGAGTGGTGGATGTGTACAGGACGGGAGCCAA
 GTGTGTTCTGGAGAACTGGAGACTTGAGAGAGCCAGGTGCTGCCTACCACCAGGTGGGGCTACTTCGT
 GTAAAACCTGGCAGGGGAGACAGGACATGCTCCATGTCCTGCAGTGACAAGATGGCAAGTGGAAATGTC
 TCGGATGCCAGGGCGCACTGCTGATGCACCTTCTGGAGAAGCCTATCTACCTGTCAGCTGTGGTCATCGG
 GAAGTGCCCGTACAGCCAGGAAGCCATGAGGAGAGCATTGACTGGCAGGTGTGAGGAAACCTTGGTTTTA
 CCCAGAGGCTTTGGAGTCAAGAACTGGAATACAGCAGTCCGGTTTACTGTTTGAACAGAGCCGCTGTG
 CGGTGCACAGGAAAAGAGGTGACAGTCCAGGCCGACTCGTCCCTGTGGGGCAGCTATCAGCTGGAGCGC
 TGTCCTCAGCAGCCCTTGGATGTTACAGCCAATGGTTTTCCACAGGGAACAACAAAGAAAGAGATTGGA
 AGCCCTAGGGCCAGATCCGAATCAGCAAGGTGGAACCTTTAGATCATTCCAGAAGCTGCTGAGCAGCA
 TTGCAGATGACGAGCAGCCAGACTCCATCAGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207245 representing BC019976
 Red=Cloning site Green=Tags(s)

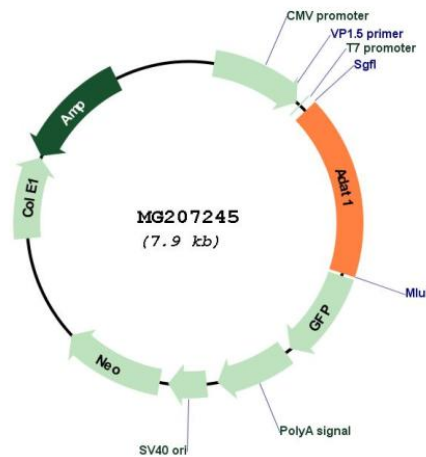
MWTADEIAQLCYAHYNVRLPKQGKPEPNREWTLAAVVKIQASANQACDIPEKEVQVTKEVVSMGTGKTC
 IGQSKMRESGDILNDSHAEIARRSFQRYLLHQLHLAAVLKEDSIFVPGTQRGLWRLRPDLSFVFFSSHT
 PCGDASIIPMLEFEEQPCCPVIRSWANNSPVQETENLEDSKDKRNCEDPASPVAKKMRLGTPARLSNVC
 AHHGTQESGPVKPDVSSDLTKEEPDAANGIASGSFRVVDVYRTGAKCVPGETGDLREPGAAYHQVGLLR
 VKPGRGDRTCMSKCDKMARWNVLGCQGALLMHFLEKPIYLSAVVIGKCPYSQEMRRAL TGRCEETLVL
 PRGFQVQELEIQSQGLLFEQSRCAVHRKRGDSPGRLVPCGAAISWSAVPQQPLDVTANGFPQGTTKKEIG
 SPRARSRISKVELFRSFQKLLSSIAADDEQPDSIR

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: BC019976

ORF Size: 1364 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:	<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:	<u>BC019976</u> , <u>AAH19976</u>
RefSeq Size:	2036 bp
RefSeq ORF:	1364 bp
Locus ID:	30947
Cytogenetics:	8 E1
Gene Summary:	Specifically deaminates adenosine-37 to inosine in tRNA-Ala.[UniProtKB/Swiss-Prot Function]