

## Product datasheet for **MR225163**

### Adat1 (NM\_013925) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adat1 (NM_013925) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adat1
Synonyms:	mADAT1; MMADAT1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR225163 representing NM\_013925  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGACCGCGGATGAGATCGCTCAGCTGTGCTATGCACACTATAACGTCAGACTGCCCAAGCAGGGGA  
 AGCCTGAGCCAAATCGTGAGTGGACCTTCTGGCAGCTGTGGTGAAGATTCAGGCTTCAGCTAACCAAGC  
 TTGTGACATCCCTGAGAAGGAAGTGCAAGTGACAAAGGAAGTTGTCTCAATGGGAACAGGAACAAAATGC  
 ATAGGCCAGTCCAAGATGCGAGAGAGCGGGGACATCCTCAATGACAGCCATGCTGAGATCATAGCCAGAA  
 GGAGTTTCCAGAGATACCTTCTCCATCAGCTCCATTTGGCAGCCGCTCTGAAAGAGGATAGCATCTTTGT  
 TCCAGGGACCCAAAGAGGACTGTGGAGGCTCAGACCTGACCTGTCGTTTGTGTTTTCTAGCCACACA  
 CCCTGTGGGGATGCCTCCATCATCCGATGCTCGAGTTTGAAGAACAGCCTTGCTGTCCTGTCATCAGAA  
 GTTGGGCCAACAACTCACCTGTACAAGAGACTGAGAATCTAGAGGATTCTAAAGATAAAAGGAAGCTGTA  
 AGATCCCAGTCCCTGTAGCCAAGAAGATGAGGCTGGGAACACCTGCCAGGTCCTCAATTGTGTA  
 GCTCACCATGGGACCCAGGAAAGTGGTCCAGTCAAACCAGATGTCAGCAGCTCTGATCTACCAAGGAGG  
 AACCCAGATGCTGCCAATGGAATAGCTTCAGGTAGCTTCAGAGTGGTGGATGTGTACAGGACGGGAGCCAA  
 GTGTGTTCTGGAGAAACTGGAGACTTGAGAGAGCCAGGTGCTGCCTACCACCAGGTGGGGCTACTTCGT  
 GTAAAACCTGGCAGGGGAGACAGGACATGCTCCATGTCCTGCAGTGACAAGATGGCAAGGTGGAATGTCC  
 TCGGATGCCAGGGCGCACTGCTGATGCACCTTCTGGAGAAGCCTATCTACCTGTCAGCTGTGGTTCATCGG  
 GAAGTGGCCGTACAGCCAGGAAGCCATGAGGAGAGCATTGACTGGCAGGTGTGAGGAAACCTTGGTTTTA  
 CCCAGAGGCTTTGGAGTCAAGAACTGGAATACAGCAGTCCGGTTTACTGTTTGAACAGAGCCGCTGTG  
 CGGTGCACAGGAAAAGAGGTGACAGTCCAGGCCGACTCGTCCCTGTGGGGCAGCATCAGCTGGAGCGC  
 TGTCCTCAGCAGCCCTTGGATGTTACAGCCAATGGTTTTCCACAGGGAACAACAAAGAAAGAGATTGGA  
 AGCCCTAGGGCCAGATCCCGAATCAGCAAGGTGGAACCTTTAGATCATTCCAGAAGCTGCTGAGCAGCA  
 TTGCAGATGACGAGCAGCCAGACTCCATCAGGGTAACGAAGAAGCTGGACACCTATCAGGAGTACAAGGA  
 TGCTGCGTCCGCCTACCAGGAAGCCTGGGGTGCCTCCGCAGGATACAGCCGTTTGCCTGGATCAGA  
 AACCCACCCGACTACCACCAATTTAAA

**ACCGGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225163 representing NM\_013925  
 Red=Cloning site Green=Tags(s)

MWTADEIAQLCYAHYNVRLPKQGKPEPNREWTLA AVVKIQASANQACDIPEKEVQVTKEVVSMGTGKTC  
 IGQSKMRESGDILNDSHAEIIARRSFQRYLLHQLHLA AVLKEDSIFVPGTQRGLWLRPDL SFVFFSHT  
 PCGDASIIPMLEFEEQPCCPVIRSWANNSPVQETENLEDSKDKRNCEDPASPVAKKMRLGTPARLSNVC  
 AHHGTQESGPVKPDVSSDLTKEEPDAANGIASGSFRVVDVYRTGAKCVPGETGDLREPGAAYHQVGLLR  
 VKPGRGDRTCMSKSDKMARWNVLGCQGALLMHFLEKPIYLSAVVIGKCPYSQEAMRRAL TGRCEETLVL  
 PRGFQVQELEIQQSGLLFEQSRCAVHRKRGDSPGRLVPCGAAISWSAVPQQPLDVTANGFPQGTTKKEIG  
 SPRARSRI SKVELFRSFQKLLSSIAADDEQPDSIRVTKKLDTYQEYKDAASAYQEA W GALRRIQPFASWIR  
 NPPDYHQFK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

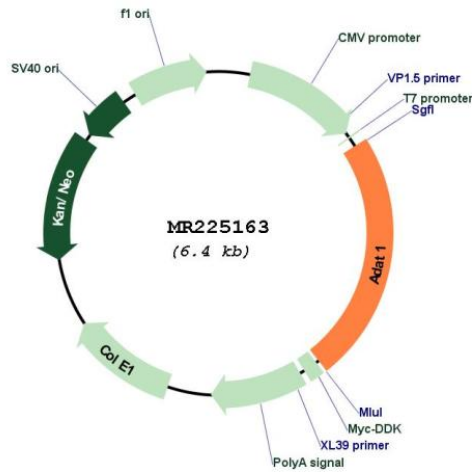
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_013925

**ORF Size:** 1497 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\\_013925.5](#)

**RefSeq Size:** 3159 bp

**RefSeq ORF:** 1500 bp

**Locus ID:** 30947

**UniProt ID:** [Q9JHI2](#)

**Cytogenetics:** 8 E1

**MW:** 55.8 kDa

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