

Product datasheet for **MR206782**

Aadat (NM_011834) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aadat (NM_011834) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aadat
Synonyms:	Aadt; AI875679; Kat2; KATII; Kyat2; mKat-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206782 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATTACTCACGGTTCCTCACTGCAACGAGCCTGGCCAGAAAGCCATCTCCATCAGAACTACAGCGG
 ACATACTGAGCAAAGCACAAAAACCTCATCTCCCTGGCTCCTGGATCTCCAAACCCGAGCATGTTCCC
 CTTTAAGTCAGCTGCCTTCACTGTGAAAAACGGAAGCACCATCCGGTTTGAAGACGACTTGATCAAAAGG
 GCCCTCCAATACTCTCCAAGCTATGGAATTCAGAACTTCTGTCTGGCTAAAACAGTTTCAAGTAAAT
 TGCATAATCCCCCACTGTCAACTACCCACCCAATCAAGGACAGATGGATCTCTGCATCACATCTGGCTG
 CCAAGATGGTCTGTGAAGGCATTTGAAATGCTCATCAATCCTGGAGACACTATCCTGGTCAATGAACCA
 CTGTTTCCAGGAACCTTTATGCTATGAAACCACTAGGCTGCAACATTATTAATGTCCCCAGTGATGAGC
 ATGGGATTATCCAGAGGTCTCAAAAAATCCTTTCCAGTGGAAACCAGAAGATTCCAAGGATCCAC
 AAAAAAGACTCCAAAATTTCTGTATACTGTCCAAATGGCAACAACCTACAGGCAACTCGTTGACAGGT
 GACCGCAAGAAGGAAATCTATGAGCTTGAAGAAAATATGATTTCTCATAATAGAAGATGACCCTTACT
 ATTTTCTTCAGTTTAGCAAGCCTTGGGAGCCAACCTTTCTCTCCATGGATGTTGATGGGAGAGTCATCAG
 AGCTGACACCTTTTCAAAAACCGTCTCCTCAGGGTTGAGAGTAGGGTTTATGACTGGCCCTAAGACCTTG
 ATACAGAAATATTGTTCTCCACACACAAGTCTCATCAGTACATGCCTGACTCTCTCACAGCTCATGATAC
 TACAGTCTTACACCAATGGGGAGAAGAGGGTTTCTGGCTCATATTGACAGAATATTGATTTCTACAA
 GAACCAGAGGGATTCCATATTGGCAGCTGCAGACAAGTGGTTACGTGGCTTGGCAGAGTGGCATGTTCCC
 AAAGCTGGCATGTTTCTATGGATTAAGTAAAGTAAAGGAATCTCCGATACAAAACAATGATTGAAGAAAAGG
 CTATTGAAAGAGAGGTCTTACTTGTTCCTGGAAATGGTTTCTTATTGATGGCTCAGCTCCTACCTCCTT
 CTTCAGAGCATCCTTCTCTGGCTACTCCAGCACAGATGGATACAGCCTTCCAGAGATTGGCCCAACTG
 ATAAAAGAGTCTTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206782 protein sequence
 Red=Cloning site Green=Tags(s)

MNYSRFLTATSLARKPSPIRTADILSKAPKTLISLAPGSPNPSMFPFKSAAFTVENGSTIRFEDDLIKR
 ALQYSPSYGIPELLSWLKQFQVKLHNPTVNYPPNQGMDCITSGCQDGLCKAFEMLINPGDITLVNEP
 LFPGLTYAMKPLGCNIINVPSDEHGIPEGLKKILSQWKPEDSKDPTKKTpkFLYVpNGNPTGNSLTG
 DRKKEIYELARKYDFLIIEDDPYYFLQFSKPWEPTFLSMDVDGRVIRADTFskTVSSGLRVGFMTGPKTL
 IQNIVLHTQVSSVHACTLSQLMILQLLHQWGEEGFLAHIDRTIDFYKNQRDSILAAADKWLRLGLAEWHVP
 KAGMFLWIKVKGISDTKQLIEEKAIEREVLLVPGNGFFIDGSAPTSFFRASFSLATPAQMDTAFQRLAQL
 IKESL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN: NM_011834

ORF Size: 1278 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](#)

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).

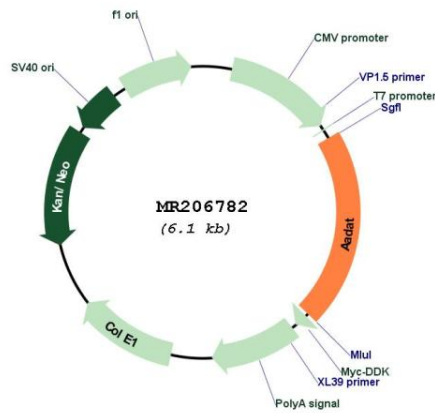
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_011834.1](#), [NM_011834.2](#), [NP_035964.1](#)

RefSeq Size: 1780 bp
 RefSeq ORF: 1278 bp
 Locus ID: 23923
 UniProt ID: [Q9WVM8](#)
 Cytogenetics: 8 30.85 cM
 MW: 47.6 kDa

Gene Summary: Transaminase with broad substrate specificity. Has transaminase activity towards amino adipate, kynurenine, methionine and glutamate. Shows activity also towards tryptophan, aspartate and hydroxykynurenine. Accepts a variety of oxo-acids as amino-group acceptors, with a preference for 2-oxoglutarate, 2-oxocaproic acid, phenylpyruvate and alpha-oxo-gamma-methylol butyric acid. Can also use glyoxylate as amino-group acceptor (in vitro) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206782