

Product datasheet for **MR219449**

Abat (NM_001170978) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abat (NM_001170978) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abat
Synonyms:	9630038C02Rik; AI255750; GABA; Gabaat; Gabat; Gm9851; I54; Laibat; X61497
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR219449 representing NM_001170978
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTTCTTGTGATTACCCGACGGCTGGCCTGCAGTCCAGAAAACTCCACCTTTCATACCTG
 GATCCAGATATATCAGCCAAGCCGCTGCCAAAGTTGACATTGAATTTGATTATGATGGACCACTCATGAA
 GACGGAAGTCCCAGGGCCTAGATCTAAGGAACTAATGAAACAGCTGAACACAATCCAGAATGCAGAGGCC
 GTGCACTTTTCTGCAACTATGAAGAGAGCAGAGGTAACCTAGTGGACGTGGACGGCAACCGCATGT
 TGGACCTGTATTCTCAGATCTCCTCTGTGCCCATAGGTTACAACCATCCGGCTCTGGCGAAACTCGTTCA
 ACAGCCTCAGAACGCGAGCACTTTCATCAACAGACCTGCCTTGGGCATCCTGCCTCCAGAGAACTTTGTG
 GACAAGCTCCAGGAGTCTTGATGTCGGTGGCGCCAGGGGCATGTCCAGCTCATCACCATGGCCTGTG
 GCTCCTGCTCCAATGAGAATGCATTCAAGACCATCTTCATGTGGTACCGGAGTAAGGAACGAGGGCAGAG
 AGGTTTCTCAAAGAGGAGCTGGAGACTTGCATGGTTAACAGAGTCTGGATGCCAGACTACAGCATT
 CTCTCCTTCATGGGTGCTTCCATGGGAGGACCATGGGTTGCTTAGCGACCACACACTCCAAAGCAATTC
 ACAAGATTGACATCCCTTCTTTGACTGGCCATTGCTCCATTCCCACGGCTGAAATATCCCTGGAGGA
 GTTTACAACGGACAACCAGCAAGAGGAGGCCCGCTGCCTAGAAGAGGTGGAGGATTTAATTGTGAAATAT
 CGGAAAAAGAAGAGAACGGTGGCTGGAATCATCGTGGAGCCCATCCAGTCCGAGGGTGGAGACAACCATG
 CATCAGATGACTTCTCCGGAAGCTGAGAGACATAGCCAGGAAGCCTTACCGGATTTTCAATACCTGGCT
 GGGGACCCATCCAAGAATTGCTGTGGCTGAGGTCATCAACATCATCAAGCGGAAGACCTGCTCAAC
 AATGTGGCCCGTGTGGGAAGACCCTACTCACAGGGCTGCTGGACCTCCAGGCCAGTACCTCAGTTCA
 TCAGCAGAGTGAGGGGACGAGGCACCTTCTGTTCTCGACACTCCCGATGAAGCCATACGGAATAACT
 CATCCTAATTGCCAGGAACAAAGGTGTGGTACTGGGGGGCTGCGGTGACAAGTCCATCCGTTTCCGCCCC
 ACGCTGGTCTTCAGGGATCACCACGCCATCTGTTCTCAGCATTTCAGCGGCATCTTAGCAGACTTCA
 AG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR219449 representing NM_001170978
 Red=Cloning site Green=Tags(s)

MAFLITRRLACSSQKNLHLFIPGSRYISQAAKVDIEFDYDGPLMKTEVPGRSKELMKQLNTIQNAEA
 VHFFCNYESRGNLVDVDGNRMLDLYSQISSVPIGYNHPALAKLVQQPQNASTFINRPALGILPPENFV
 DKLQESLMSVAPRGMSQLITMACGSCSNENAFKTI FMWYRSKERGQRF SKEELET CMVNQSPGCPDYSI
 LSFMGAFHGRMTGCLATTHSKAIHKIDIPSFDWPIAPFPRLKYPLEEFTTDNQEEARCLEEVEDLIVKY
 RKKKRTVAGIIVEPIQSEGGDNHASDDFFRKLRLDIARKPYRIFNTWLGDP SKNLLLAEVINIIKREDLLN
 NVARVGKTLTGLLDLQAQYPQFISRVGRGTFCSFDTPDEAIRNKLIL IARNKGVVLGGCGDKSIRFRP
 TLVFRDHHHLFLSIFSGILADFK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1182_h01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001170978

ORF Size: 1332 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_001170978.1](#), [NP_001164449.1](#)

RefSeq Size: 4485 bp

RefSeq ORF: 1335 bp

Locus ID: 268860

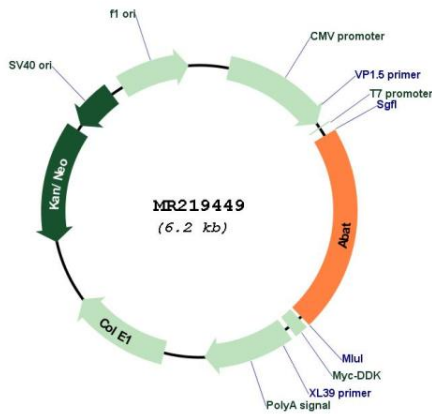
UniProt ID: [P61922](#)

Cytogenetics: 16 A1

MW: 50.7 kDa

Gene Summary: The encoded gene product is responsible for catabolism of gamma-aminobutyric acid (GABA), a mostly inhibitory neurotransmitter in the central nervous system, into succinic semialdehyde. Deficiency of this encoded protein includes psychomotor retardation, hypotonia, hyperreflexia, lethargy, refractory seizures, and EEG abnormalities. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2010]

Product images:



Circular map for MR219449