

Product datasheet for **MG219449**

Abat (NM_001170978) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abat (NM_001170978) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Abat
Synonyms:	9630038C02Rik; AI255750; GABA; Gabaat; Gabat; Gm9851; I54; Laibat; X61497
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219449 representing NM_001170978
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTTCTTGTGATTACCCGACGGCTGGCCTGCAGTTCAGAAAAACCTCCACCTTTCATACCTG
 GATCCAGATATATCAGCCAAGCCGCTGCCAAAGTTGACATTGAATTTGATTATGATGGACCACTCATGAA
 GACGGAAGTCCCAGGCTAGATCTAAGGAACTAATGAAACAGCTGAACACAATCCAGAATGCAGAGGCC
 GTGCACATTTTCTGCAACTATGAAGAGAGCAGAGGTAACCTAGTGGACGTGGACGGCAACCGCATGT
 TGGACCTGTATTCTCAGATCTCCTCTGTGCCCATAGGTTACAACCATCCGGCTCTGGCGAAACTCGTTCA
 ACAGCCTCAGAACGCGAGCACTTTCATCAACAGACCTGCCTTGGGCATCCTGCCTCCAGAGAACTTTGTG
 GACAAGCTCCAGGAGTCTTGATGTCGGTGGCGCCAGGGGCATGTCCAGCTCATCACCATGGCCTGTG
 GCTCCTGCTCCAATGAGAATGCATTCAAGACCATCTTCATGTGGTACCGGAGTAAGGAACGAGGGCAGAG
 AGTTTTCTCAAAGAGGAGCTGGAGACTTGCATGGTTAACCAGAGTCTGGATGCCAGACTACAGCATT
 CTCTCCTTCATGGGTGCTTCCATGGGAGGACCATGGGTTGCTTAGCGACCACACACTCCAAAGCAATTC
 ACAAGATTGACATCCCTTCTTTGACTGGCCATTGCTCCATTCCCACGGCTGAAATATCCCTGGAGGA
 GTTTACAACGGACAACCAGCAAGAGGAGGCCCGCTGCCTAGAAGAGGTGGAGGATTTAATTGTGAAATAT
 CGGAAAAAGAAGAGAACGGTGGCTGGAATCATCGTGGAGCCCATCCAGTCCGAGGGTGGAGACAACCATG
 CATCAGATGACTTCTCCGGAAGCTGAGAGACATAGCCAGGAAGCCTTACCGGATTTTCAATACCTGGCT
 GGGGGACCCATCCAAGAATTGCTGTGGCTGAGGTCAACAATCATCAAGCGGAAGACCTGCTCAAC
 AATGTGGCCCGTGTGGGAAGACCCTACTCACAGGGCTGCTGGACCTCCAGGCCAGTACCCTCAGTTCA
 TCAGCAGAGTGAGGGGACGAGGCACCTTCTGTTCCCTTCGACACTCCCGATGAAGCCATACCGAATAACT
 CATCCTAATTGCCAGGAACAAAGGTGTGGTACTGGGGGGCTGCGGTGACAAGTCCATCCGTTCCGCCCC
 ACGCTGGTCTTCAGGGATCACCACGCCATCTGTTCTCAGCATTTTTCAGCGGCATCTTAGCAGACTTCA
 AG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219449 representing NM_001170978
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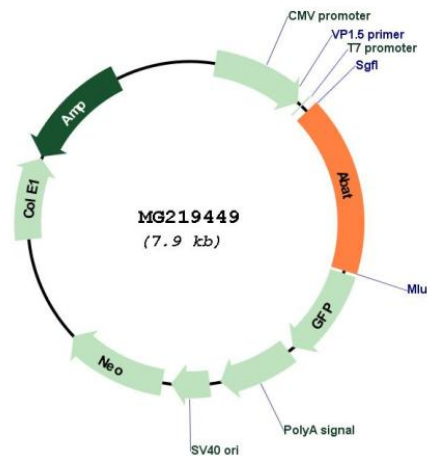
MAFLLITRRLACSSQKNLHLFIPGSRYISQAAAKVDIEFDYDGPLMKTEVPGRSKELMKQLNTIQNAEA
 VHFFCNYEESRGNLVDVDGNRMLDLYSQISSVPIGYNHPALAKLVQQPQNASTFINRPALGILPPENFV
 DKLQESLMSVAPRGMSQLITMACGSCSNENAFKTI FMWYRSKERGQRF SKELETCMVNQSPGCPDYSI
 LSFMGAFHGRMGCLATTHSKAIHKIDIPSFDWPIAPFPRLKYPLEEFTTDNQQEARECLEEVEDLIVKY
 RKKKRTVAGIIVEPIQSEGGDNHASDDFFRKL RDIARKPYRIFNTWLGDP SKNLLLAEVINIIKREDLLN
 NVARVGKTLTGLLDLQAQYPQFISRVGRGTFCSFDTPDEAIRNKLIL IARNKGVVLGGCGDKSIRFRP
 TLVFRDHHAHLFLSIFSGILADFK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


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:	<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>NM_001170978.1</u> , <u>NP_001164449.1</u>
RefSeq Size:	4485 bp
RefSeq ORF:	1335 bp
Locus ID:	268860
UniProt ID:	<u>P61922</u>
Cytogenetics:	16 A1
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]