

## Product datasheet for **MR208012**

### Abat (NM\_172961) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Abat (NM_172961) 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:**

>MR208012 representing NM\_172961  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCTTCTTGTGATTACCCGACGGCTGGCCTGCAGTTCACAGAAAACTCCACCTTTCATACCTG  
 GATCCAGATATATCAGCCAAGCCGCTGCCAAAGTTGACATTGAATTTGATTATGATGGACCACTCATGAA  
 GACGGAAGTCCCAGGGCCTAGATCTAAGGAACTAATGAAACAGCTGAACACAATCCAGAATGCAGAGGCC  
 GTGCACTTTTCTGCAACTATGAAGAGAGCAGAGGTAACCTAGTGGACGTGGACGGCAACCGCATGT  
 TGGACCTGTATTCTCAGATCTCCTCTGTGCCATAGGTTACAACCATCCGGCTCTGGCGAAACTCGTTCA  
 ACAGCCTCAGAACGCGAGCACTTTCATCAACAGACCTGCCTTGGGCATCCTGCCTCCAGAGAAGTTGTG  
 GACAAGCTCCAGGAGTCTTGATGTCGGTGGCGCCAGGGGCATGTCCAGCTCATCACCATGGCCTGTG  
 GCTCCTGCTCCAATGAGAATGCATTCAAGACCATCTTCATGTGGTACCGGAGTAAGGAACGAGGGCAGAG  
 AGGTTTCTCAAAGAGGAGCTGGAGACTTGCATGGTTAACAGAGTCTGGATGCCAGACTACAGCATT  
 CTCTCCTTCATGGGTGCTTCCATGGGAGGACCATGGGTTGCTTAGCGACCACACACTCCAAAGCAATTC  
 ACAAGATTGACATCCCTTCTTTGACTGGCCATTGCTCCATTCCCACGGCTGAAATATCCCTGGAGGA  
 GTTTACAACGGACAACCAGCAAGAGGAGGCCCGCTGCCTAGAAGAGGTGGAGGATTTAATTGTGAAATAT  
 CGGAAAAAGAAGAGAACGGTGGCTGGAATCATCGTGGAGCCCATCCAGTCCGAGGGTGGAGACAACCATG  
 CATCAGATGACTTCTCCGGAAGCTGAGAGACATAGCCAGGAAGCATGGCTGTGCCTTCTTGGTGGACGA  
 GGTGCAGACCGGAGGAGGCTGTACAGGCAAGTTCTGGGCCATGAACACTGGGGCTTGGATGACCCAGCC  
 GATGTGATGACGTTTCAAGAAAATGATGACCGGGGCTTCTTCCACAAGGAGGAGTTTCGGCCAAGTG  
 CTCCTTACCGGATTTCAATACCTGGCTGGGGACCCATCCAAGAAGTTGCTGCTGGCTGAGGTCATCAA  
 CATCATCAAGCGGAAGACCTGCTCAACAATGTGGCCCGTGTGGGGAAGACCCTACTCACAGGGCTGCTG  
 GACCTCCAGGCCAGTACCCTCAGTTCATCAGCAGAGTGAAGGGACGAGGCACCTTCTGTTCTTCGACA  
 CTCCCGATGAAGCCATACGGAATAAACTCATCCTAATTGCCAGGAACAAAGGTGTGGTACTGGGGGCTG  
 CGGTGACAAGTCCATCCGTTTCCGCCACGCTGGTCTCAGGGATCACCACGCCCATCTGTTCTCAGC  
 ATTTTCAGCGGCATCTTAGCAGACTTCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208012 representing NM\_172961  
 Red=Cloning site Green=Tags(s)

MAFLLI TRRLACSSQKNLHLFIPGSRYSQAAKVDIEFDYDGPLMKTEVPGPRSKELMKQLNTIQNAEA  
 VHFFCNYEESRGNLVDVDGNRMLDLYSQISSVPIGYNHPALAKLVQPQNASTFINRPALGILPPENFV  
 DKLQESLMSVAPRGMSQLITMACGSCSNENAFKIFMWYRSKERGQRF SKEELET CMVNQSPGCPDYSI  
 LSFMGAFHGRMTMGLATTHSKAIHKIDIPSFDPWIAPFPRLKYPLEEF TTDNQEEARCLEEVEDLIVKY  
 RKKKRTVAGIIVEPIQSEGGDNHASDDFFRKL RDIARKHGCAFLVDEVQTGGGCTGKFWAHEHWGLDDPA  
 DVMTFSKMMTGGFFHKEEFRPSAPYRIFNTWLGDP SKNLLLAEVINI IKREDLLNNVARVGKTLTGLL  
 DLQAQYPQFISVRGRGTFCSFDTPDEAIRNKL I LIARNKGVVLGGCGDKSIRFRPTLVFRDHHHLFLS  
 IFSGILADFK

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9085\\_e01.zip](https://cdn.origene.com/chromatograms/mm9085_e01.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_172961

**ORF Size:** 1500 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\\_172961.3](#), [NP\\_766549.2](#)

**RefSeq Size:** 4653 bp

**RefSeq ORF:** 1503 bp

**Locus ID:** 268860

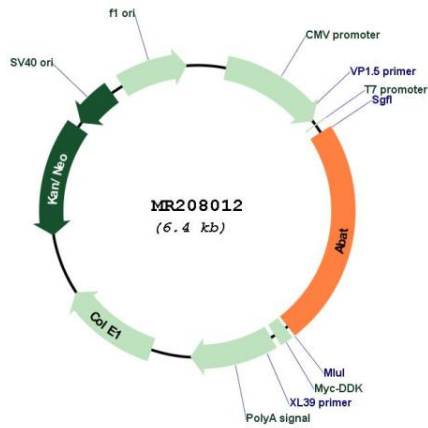
**UniProt ID:** [P61922](#)

**Cytogenetics:** 16 A1

**MW:** 56.5 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 MR208012