

Product datasheet for **RN209133**

Abat (NM_031003) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abat (NM_031003) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Abat
Synonyms:	beta-AlaAT; Gabat
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN209133 representing NM_031003
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTTCTTGTGACTACCCGACGGCTGGTCTGCAGTTCACAGAAAACTCCACCTCTTCACACCTG
 GATCCAGATACATCAGCCAAGCTGCTGCCAAAGTTGACTTTGAGTTTGATTATGATGGACCACTCATGAA
 GACAGAAGTCCCAGGCCCTAGATCTCAGGAGCTAATGAAACAGCTGAACACAATCCAGAATGCAGAGGCC
 GTGCACCTTTTCTGCAACTACGAAGAGAGCCGAGGCAACTACCTCGTGGACGTGGATGGCAACCGCATGT
 TGGACCTGTATTCTCAGATCTCCTCTGTACCCATCGGTTACAACCATCCGGCTCTGGCGAAACTCGTTCA
 ACAGCCTCAAACGCGAGCACTTTCATCAACAGACCTGCCCTGGGCATCCTGCCTCCAGAGAAGTTGTG
 GACAAGCTCCGGGAGTCTTGATGTCGGTGGCGCCAAAGGCATGTGTCAGCTCATCAGATGGCCTGCC
 GGTCTGTCCAATGAGAATGCATTCAAGACCATCTTCATGTGGTACCGGAGTAAAGAACGAGGTCAGAG
 AGTTTTCTCAAAGAGGAGCTGGAGACTTGCATGGTTAACAGAGTCTGGATGCCAGACTACAGCATC
 CTCTCCTTCATGGGTGCTTCCACGGGAGGACCATGGGTTGCTTAGCGACCACACACTCCAAAGCAATTC
 ACAAGATTGACATCCCTTCTTTGACTGGCCATTGCTCCATTCCCACGGCTGAAATATCCCTGGAGGA
 GTTTGTGACGGACAATCAGCAAGAGGAGGCCCGCTGTCTAGAAGAGGTGGAGGATCTAATTGTGAAATAT
 CGGAAAAAGAAGAGAAGAGTGGCTGGGATCATCGTGGAGCCCATCCAGTCCGAAGGTGGAGACAACCACG
 CATCAGATGACTTCTCCGGAAGCTGAGAGACATAGCCAGGAAGCATGGCTGTGCCTTCTTGGTGGACGA
 GGTTCCAGACTGGAGGAGGCTGTACAGGCAAGTTCTGGGCCATGAACACTGGGGCTTGGATGACCCAGCC
 GACGTGATGTCGTTCCAGCAAGAAGATGATGACTGGGGCTTCTCCACAAGGAGGAGTTTCGACCAAGT
 CTCCTTACCGGATCTTCAACACCTGGCTGGGGACCCATCCAAGAAGTCTGCTGGCTGAGGTCATCAA
 CATCATCAAGCGGAAGACCTGCTCAACAACGTGGCCCATGCCGGGAAGACCCTACTGACCGGGCTGCTG
 GACCTCCAGGCCAGTACCCCCAGTTCGTGAGCCGGGTGAGGGGACGAGGCACCTTCTGTTCCCTTCGACA
 CTCCCAGCAAAGCCATACGGAATAAACTCATCCTAATTGCCAGGAACAAAGGTGTGGTACTGGGGGCTG
 CGGTGACAAATCCATACGTTTCCGTCCCACGCTGGTCTTCAGGGATCACCATGCCCACTTGTTCCTCAAC
 ATTTTCAGTGGTATCTTAGCAGACTTCAAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_031003
- Insert Size:** 1503 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_031003.2](#), [NP_112265.1](#)

RefSeq Size: 1725 bp

RefSeq ORF: 1503 bp

Locus ID: 81632

UniProt ID: [P50554](#)

Cytogenetics: 10q12

Gene Summary: main component of the 4-aminobutyrate (GABA) shunt; major inhibitory neurotransmitter [RGD, Feb 2006]