

Product datasheet for **RR209133**

Abat (NM_031003) Rat Tagged ORF Clone

Product data:

| | |
|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Abat (NM_031003) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| 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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ORF Nucleotide Sequence:

>RR209133 representing NM_031003
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCTTCTTGTGACTACCCGACGGCTGGTCTGCAGTTCACAGAAAACTCCACCTCTTCACACCTG
 GATCCAGATACATCAGCCAAGCTGCTGCCAAAGTTGACTTTGAGTTTGATTATGATGGACCACTCATGAA
 GACAGAAGTCCCAGGCCCTAGATCTCAGGAGCTAATGAAACAGCTGAACACAATCCAGAATGCAGAGGCC
 GTGCATTTTTCTGCAACTACGAAGAGAGCCGAGGCAACTACCTCGTGGACGTGGATGGCAACCGCATGT
 TGGACCTGTATTCTCAGATCTCCTCTGTACCCATCGGTTACAACCATCCGGCTCTGGCGAAACTCGTTCA
 ACAGCCTCAAACCGGAGCACTTTCATCAACAGACCTGCCCTGGGCATCTGCCTCCAGAGAACTTTGTG
 GACAAGCTCCGGGAGTCTTGATGTCGGTGGCGCCAAAGGCATGTGTCAGCTCATCAGATGGCCTGCC
 GGTCTGTCCAATGAGAATGCATTCAAGACCATCTTCATGTGGTACCGGAGTAAAGAACGAGGTCAGAG
 AGTTTTCTCAAAGAGGAGCTGGAGACTTGCATGGTTAACCAGAGTCTGGATGCCAGACTACAGCATC
 CTCTCCTTCATGGGTGCTTCCACGGGAGGACCATGGGTTGCTTAGCGACCACACACTCCAAAGCAATTC
 ACAAGATTGACATCCCTTCTTTGACTGGCCATTGCTCCATTCCCACGGCTGAAATATCCCTGGAGGA
 GTTTGTGACGGACAATCAGCAAGAGGAGGCCCGCTGTCTAGAAGAGGTGGAGGATCTAATTGTGAAATAT
 CGGAAAAAGAAGAGAAGTGGCTGGGATCATCGTGGAGCCCATCCAGTCCGAAGGTGGAGACAACCACG
 CATCAGATGACTTCTCCGGAAGCTGAGAGACATAGCCAGGAAGCATGGCTGTGCCTTCTTGGTGGACGA
 GGTTGACTGGAGGAGGCTGTACAGGCAAGTTCTGGGCCATGAACACTGGGGCTTGGATGACCCAGCC
 GACGTGATGTCGTTGAGCAAGAAGATGATGACTGGGGCTTCTCCACAAGGAGGAGTTTCGACCAAGTG
 CTCCTTACCGGATCTTCAACACTGGCTGGGGACCCATCAAGAAGTCTGCTGGCTGAGGTCATCAA
 CATCATCAAGCGGAAGACCTGCTCAACAACGTGGCCCATGCCGGGAAGACCCTACTGACCGGGCTGTG
 GACCTCCAGGCCAGTACCCCCAGTTCGTGAGCCGGGTGAGGGGACGAGGCACCTTCTGTTCTTCGACA
 CTCCCAGCAAAGCCATACGGAATAAACTCATCCTAATTGCCAGGAACAAAGGTGTGGTACTGGGGGCTG
 CGGTGACAAATCCATACGTTTCCGTCCCACGCTGGTCTCAGGGATCACCATGCCCACTTGTTCCTCAAC
 ATTTTCAGTGGTATCTTAGCAGACTTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR209133 representing NM_031003
 Red=Cloning site Green=Tags(s)

MAFLLTTRRLVCSSQKNLHLFTPGSRYSQAAAKVDFEFDYDGPLMKTEVPGPRSQELMKQLNTIQNAEA
 VHFFCNYEESRGNLVDVDGNRMLDLYSQISSVPIGYNHPALAKLVQPQONASTFINRPALGILPPENFV
 DKLRESLMSVAPKGMQCLITMACGSCSNENAFKTIWMWYRSKERGQRF SKEELETMCVNQSPGCPDYSI
 LSFMGAFHGRMTMGLATTHSKAIHKIDIPSFDPWIAPFPRLKYPLEEFVTDNQEEARCLEEVEDLIVKY
 RKKKRTVAGIIVEPIQSEGGDNHASDDFFRKLRIARKHGCAFLVDEVQTTGGGCTGKFWAHEHWGLDDPA
 DVMSFSKMMMTGGFFHKEEFRPSAPYRIFNTWLGDPKLNLLAEVINIIKREDLLNVAHAGKTLTGLL
 DLQAQYPQFVSRVRGRGTFCSFDTPDKAIRNKLIL IARNKGVVLGGCGDKSIRFRPTLVFRDHHHLFLN
 IFSGILADFK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_031003

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_031003.2](#), [NP_112265.1](#)

RefSeq Size: 1725 bp

RefSeq ORF: 1503 bp

Locus ID: 81632

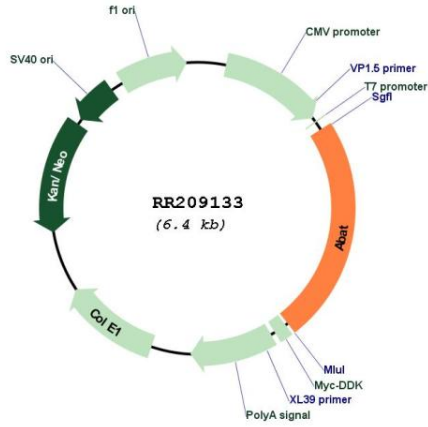
UniProt ID: [P50554](#)

Cytogenetics: 10q12

MW: 56.5 kDa

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

Product images:



Circular map for RR209133