

Product datasheet for **RR208652**

Abtb1 (NM_001005902) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abtb1 (NM_001005902) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abtb1
Synonyms:	MGC94157
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR208652 representing NM_001005902
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACACTAGCGACCTGTTTGCCAGCTGCAGGAAGGGGACGTGGGCCGTGTGCGGTACCTGCTGGAGC
 AGCGAGACGTGGAGGTGAACGTGCGGGATAAGTGGGACAGCACCCCTTTGTACTATGCCTGCCTCTGTGG
 GCATGAGGAGCTGGTGCCTACCTGTTGGCTAATGGAGCACGCTGTGAGGCCAACACCTTTGATGGAGAA
 CGGTGTCTCTATGGAGCGCTGAGCGACCCATTGCGCGTGCAGTACGAGACTACAAAACAGGTCACCTGCAT
 CCTGCAGGAGGCGGGATTACTATGACGATTTCTTGCAGCGGCTTCTGGAACAGGGCATCCACAGCGATGT
 GGTCTTTGTGGTACACGAAAGCCATTCGGGCCCATCGCTGCATCCTCGGTGCTCGCAGTACCTACTTT
 GCCAACATGCTGGACACCAAGTGAAGGGCAAGAGCGTCGTGGTTCTCAGGCACCCCTGATCAACCCGG
 TGGCCTTTGGGGCTCTACTGCAGTATCTGTACACAGGCCGCTTGGACATCGGTGTGGAGCATGTAAGTGA
 CTGTGAGCGCTTGGCTAAGCAGTCCAGCTATGGGACCTGCTCGACGACCTGGAGGCTAAATGCGAGAAG
 GTGTCTGAATTTGTGGCTTCCAAGCCTGGCACATGTGTGAAGGTGCTGACTATTAGCCCCCTCCAGCAG
 ATCCCCGGTTACGGGCAGATATGGCACTGCTGGCCGACTGTGCCCTGCCACCTGAGCTGCGGGGTGACCT
 TGGAGAGCTGCCCTTCCCATGTCCTGATGGCTTTAGCAGCTGCCCTGATATCTGCTTCCGTGTGGCTGAC
 TCCAGCTTCTCTGCCACAAGGCTTTCTTCTGTGGGCGCAGTGACTACTTCCGGGCTCTTCTGGATGACC
 ACTTTCGAGAGAGTGAGGAGCCTGTAGCCTCTGGAGACCCCCAGTTGTCACCCTGCATGACATCTCCCC
 AGACATCTTACCATGTCCTGTACTACGTATAAGTACCATACTGAGTACCTCCTGAGTTGGCCTAT
 GATGTGCTGAGTGTGGCTGACATGTACCTTCTACCTGGCCTGAAGCGGCTGTGTGGCCGACGCTGGCCC
 AGCTACTGGAGGAGCAGTGTGGTGGTGTTTGGCGCATAGCCAAGCTGTTCCGGCTGGCCCGGCTGGA
 GGACCAAGTACCGAGTATATGGCCAAGGTCATCGAGAAGCTGGTGGAGCGAGAGGACTTCTGTGGAGGCA
 GTGCGGGAAGAGGAGCCGCTGTAGCGGCCGGCAGGAGACAGACTCCATCCCACCTTGTGATGACATCC
 GTTTCATGTGGCCAGCACAGTCCAGACCTACAGTGCCATCGAAGAGGCACAGCAGCAGCTGCGGGCACT
 CGAGAACCTGCTGTGTCCATTGGCTTAGACTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208652 representing NM_001005902
 Red=Cloning site Green=Tags(s)

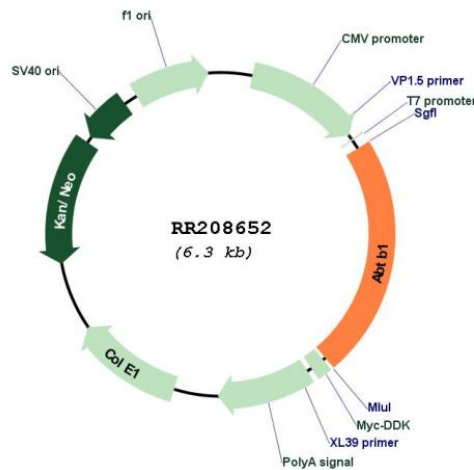
MDTSDLFASCRKGDVGRVRYLLEQRDVEVNRDKWDSTPLYYACLGHHEELVRYLLANGARCEANTFDGE
 RCLYGALSDPIRRALRDYKQVTASCRRRDYDDFLQRLLEQGIHSDVVFVHGKPFRAHRCILGARSTYF
 ANMLDTKWKGSVVVLRHPLINPVAFGALLQYL YTGRLDIGVEHVSDCERLAKQCQLWDLDDLEAKCEK
 VSEFVASKPGTCVKVLTIEPPPADPRLRADMALLADCALPPELRGDLGELPFPCPDGFSSPCDIFRVAD
 SSFLCHKAFFCGRSDFRALLDDHFRESEEPVASGDPPVVTLHDISPDIFTHVLYVYSDHTELPPELAY
 DVL SVADMYLLPGLKRLCGRSLAQLLEEDSVVGVWRIAKLFRLARLEDQCTEYMAKVIKLVREDFVEA
 VREEAAVAARQETDSIPLVDDIRFHVASTVQTYSAIEEAQQQLRALENLLVSIGLDC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001005902

ORF Size: 1434 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_001005902.1](#), [NP_001005902.1](#)

RefSeq Size: 2006 bp

RefSeq ORF: 1437 bp

Locus ID: 297432

UniProt ID: [Q5XIU1](#)

Cytogenetics: 4q34

MW: 54.1 kDa

Gene Summary: May act as a mediator of the PTEN growth-suppressive signaling pathway. May play a role in developmental processes (By similarity).[UniProtKB/Swiss-Prot Function]