

Product datasheet for **RN206292**

Abi1 (NM_024397) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abi1 (NM_024397) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Abi1
Synonyms:	E3b1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN206292 representing NM_024397
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGAGCTGCAGATGTTACTAGAGGAGGAGATCCCGTCTGGCAAGAGGGCGCTGATAGAGAGTTACC
 AGAACCTGACCCGGGTGGCGGACTACTGTGAAAACAACTACATACAGGCTACAGACAAGAGGAAAGCTCT
 AGAAGAGACCAAAGCATATACAACTCAATCTCTAGCTAGTGTGCTTATCAAATAAATGCATTGGCCAAC
 AATGTGCTCCAGCTGCTGGATATCCAGGCCTCTCAGCTGCGGAGGATGGAGTCGTCATCAATCACATCT
 CACAGACTGTGGATATTCATAAAGAAAAAGTGGCTCGAAGAGAGATTGGTATTTTGACAACAAAATAAGAA
 TACATCAAGAACTCATAAAATAATCGCACCTGCAAAATATGGAGCGTCTGTCCAGTATATTCGGAACCT
 ATTGACTACACAGTTCTGGATGATGTGGCCATGGAGTTAAGTGGCTAAAAGCCAAGCACGAAATAACC
 AGCCTGCAAGAAGTGGCACATTGTGAGAACAAATCCTCCACGCAGAAACCACCAAGCCCTCCTGTGTC
 AGGCCGAGGAACTTGGGGCGGAATACCCCTTACAAAACCTAGAGCCTGTTAAGCCTCCACAGTTCTCT
 AATGACTACATGACTAGTCTGCGAGGCTTGGAAAGCCAGCATAGTCCAGGCAGGACGGCTTCTTTAATC
 AGAGACCAAGGACGCATAGTGGGAGTAGTGGAGGAAGCGGAAGCCGGGAAAACAGTGGGAGCAGCAGCAT
 TGGTATTTCCATTGCTGTGCCACACCCTCCCCGCCACTGCGGGCCAGCAGCCCTGGCGCAGCTCCT
 GGTTCCAGTATGGCACAATGACCAGGCAGATTCTCGACACAACCTTACCATTCTTCGACATCTTCTG
 GTGGATATAGACGAACTCCCTCTGTGACTGCGCAATTCTCTGCTCAGCCTCATGTTAATGGAGGTCCACT
 TTATTCTCAAATTCATTTCTATTGCCCCCTCCTCCCCCATGCCTCAGTTGACTCCACAGATACCT
 CTCACAGGCTTCGTGGCCAGGTGCAGGAAAACATTGCTGATAGCCCAACTCCACCACCCTCCTCCAC
 CAGATGACATTCATGTTTCGATGACTCTCCACCTCCCCCACCCTCCTCTGTGGACTACGAAGACGA
 AGAAGCTGCAGTAGTTCAGTATAGTGACCCATATGCAGATGGGGACCTGCATGGGCTCCAAGAAGTAT
 ATTGAGAAAGTTGTTGCAATATATGATTATACAAAAGACAAGGATGATGAGCTGCTTTAAGAGGGTG
 CAATCATCTATGTCATAAAGAAGAACGATGATGGCTGGTTCGAAGGAGTTGCAATCGAGTAACTGGACT
 CTTCCCTGGGAATATGTTGAATCAATCATGACTATACTGAT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_024397

Insert Size: 1446 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_024397.2](#), [NP_077373.2](#)

RefSeq Size: 3009 bp

RefSeq ORF: 1446 bp

Locus ID: 79249

Cytogenetics: 17q12.3

Gene Summary: May act in negative regulation of cell growth and transformation by interacting with nonreceptor tyrosine kinases ABL1 and/or ABL2. May play a role in regulation of EGF-induced Erk pathway activation. Involved in cytoskeletal reorganization and EGFR signaling. Together with EPS8 participates in transduction of signals from Ras to Rac. In vitro, a trimeric complex of ABI1, EPS8 and SOS1 exhibits Rac specific guanine nucleotide exchange factor (GEF) activity and ABI1 seems to act as an adapter in the complex. Regulates ABL1/c-Abl-mediated phosphorylation of ENAH. Recruits WASF1 to lamellipodia and there seems to regulate WASF1 protein level. In brain, seems to regulate the dendritic outgrowth and branching as well as to determine the shape and number of synaptic contacts of developing neurons.
[UniProtKB/Swiss-Prot Function]