

Product datasheet for **MC227911**

Abi2 (NM_001198571) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abi2 (NM_001198571) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Abi2
Synonyms:	8430425M24Rik; AI839867; C130078H13
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC227911 representing NM_001198571
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGCTGCAGATGCTGCTGGAAGAGGAAATCCCGGGGGCCCGGGCTCTCTTCGACAGCTACA
 CGAATCTGGAGCGGGTGGCCGACTACTGCGAGAATAACTACATCCAGTACCAGATAAGCAGCGAGCCCT
 AGAAGAAACCAAAGCCTACACCACTCAATCCTTAGCAAGTGTTCGTATCTGATAAACACCTTGGCCAAC
 AATGTCCTACAGATGCTGGATATCCAGGCATCACAGTTACGGAGGATGGAGTCTTCAATCAACCATATTT
 CACAAACAGTTGATATTCATAAAGAGAAGGTTGCAAGAAGAGAAAATTGGTATTTTGACCACCAATAAAAA
 CACTTCAAGGACCATAAGATTATTGCGCCAGCCAACCTTGAGCGGCCAGTTCGTATATTCGAAAACT
 ATTGACTACACAATTTAGATGACATTGGACATGGAGTGAAGTGGTTGCTTAGATTTAAGGTGAGTACCC
 AGAATATGAAAAAGGGTGGATTGCCACGTACGACACCTCCAACCTCAGAAGCCCCCAAGTCCCCTATGTC
 AGGGAAGGGGACACTTGGCGGCACTCCCCTATCGAACACTGGAGCCAGTGCCTCCTCAGTGGTACCA
 AATGATTACGTACTAGCCCAACCCGTAATATGGCTCCCTCGCAGCAGAGCCCTGTGAGGACAGCTCTG
 TGAATCAAAGAAATCGAACTTACAGCAGCAGTGGGAGCAGTGGAGGAAAGTCAACCAAGTAGTCGGAGCAG
 CAGTCGGGAGAACAGCGGAAGTGGTAGTGTGGGGTACCCATTGCTGTGCCTACTCCGTCTCCTCCAAGC
 GTCTTCCAGACGCTGCTGCTGGGGTGCACAGAGCCTTGCTGATGGCTTCACTTCTCCAACCTCCCCTG
 TTATTTCTTAAACCCCCACAGGTCATCCTGTTCAAGTCTACAGCATGAACAGGCCTGCCTCTCGCCA
 TACACCACCTACAATAGGGGGCTCGTTGCCCTATAGACGTCTCCTTCCATAACGTACAAAAAAGCCTT
 CAGAATCAGATGAATGGAGTCCTTTTATAACCCAGAAATCCAGTTTCAGATACACCACCTCCACCCCCAC
 CTGTGGAAGAGCCAGTCTTTGATGAATCCCCCTCCACCGCCTCCTCCAGAAGATTATGAAGAGGAGGA
 AGCAGCTGTGGTTGAGTACAGCGATCCGTACGCTGAAGAGGACCCACCGTGGGCGCCAAGGGCTTACTTG
 GAAAAGGTTGTGGCAATTTATGATTATACAAAAGACAAGGAAGATGAGCTGCCTTTCAGGAAGGAGCCA
 TTATATATGTCATCAAGAAGAATGACGATGGTTGGTATGAGGGAGTTATGAATGGTGTGACCGGGCTCTT
 CCCTGGAACTATGTTGAGTCCATCATGCATTATTCGGAG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001198571
- Insert Size:** 1443 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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:	<ol style="list-style-type: none">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:	<u>NM_001198571.1, NP_001185500.1</u>
RefSeq Size:	5892 bp
RefSeq ORF:	1443 bp
Locus ID:	329165
UniProt ID:	<u>P62484</u>
Cytogenetics:	1 C2
Gene Summary:	<p>Regulator of actin cytoskeleton dynamics underlying cell motility and adhesion. Functions as a component of the WAVE complex, which activates actin nucleating machinery Arp2/3 to drive lamellipodia formation (By similarity). Acts as regulator and substrate of nonreceptor tyrosine kinases ABL1 and ABL2 involved in processes linked to cell growth and differentiation. Positively regulates ABL1-mediated phosphorylation of ENAH, which is required for proper polymerization of nucleated actin filaments at the leading edge (By similarity). Contributes to the regulation of actin assembly at the tips of neuron projections. In particular, controls dendritic spine morphogenesis and may promote dendritic spine specification toward large mushroom-type spines known as repositories of memory in the brain (PubMed:15572692). In hippocampal neurons, may mediate actin-dependent BDNF-NTRK2 early endocytic trafficking that triggers dendrite outgrowth (PubMed:27605705). Participates in ocular lens morphogenesis, likely by regulating lamellipodia-driven adherens junction formation at the epithelial cell-secondary lens fiber interface (PubMed:15572692). Also required for nascent adherens junction assembly in epithelial cells (By similarity).</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This variant encodes isoform 2, which is shorter than isoform 1.</p>