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Product datasheet for MC205664

Abi1 (NM_145994) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abi1 (NM_145994) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Abi1
Synonyms:	abi-1; E3B1; NAP1; Ssh3bp1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>BC004657
GTCCCACAATACCCGGCGGAGGGAGGGTGGGTGGTTGGCGTCTGGTCTGTGCGGAGCTCGGGTCCCCGGC
GGACTCAGCTTCCTCTGTCTCTTTAATGCGAGAGGAAGCGATGCGGAGGGGTGGAAAATGGCAGAGCTGC
AGATGTTACTAGAGGAGGAGATCCCGTCTGGCAAGAGGGCGCTGATAGAGAGTTACCAGAACCTGACCCG
GGTGGCGGACTACTGTGAAAACAACTATATACAGGCTACAGACAAGAGAAAAGCTCTAGAAGAGACCAAA
GCATATACAACTCAATCTCTAGCTAGTGTTGCTTATCAAATAAATGCATTGGCCAACAATGTGCTCCAGC
TGCTGGATATCCAAGCATCTCAGCTGCGGAGGATGGAGTCATCCATCAATCACATCTCACAGACTGTGGA
TATTCATAAAGAAAAAGTGGCTCGAAGAGAGATTGGTATTTTGACAACAAATAAGAATACATCAAGAACT
CACAAAATAATCGCACCCGCAAATATGGAGCGTCCTGTCAGGTATATTCGGAAACCTATCGACTATACAG
TTCTGGATGATGTGGGCCATGGAGTTAAGCACGGAAATAACCAGCCTGCAAGAACTGGCACATTGTCGAG
AACAAACCCTCCCACGCAGAAACCACCAAGCCCTCCCGTGTCGGGCCGAGGGACTTTGGGACGGAATACC
CCTTACAAAACCCTAGAGCCTGTTAAGCCTCCAACAGTTCCCAATGACTACATGACTAGTCCTGCGAGGC
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TATTATGTTTAACAAATCATGGTTCAGAATGCACCATTACATGTTTCAGTGCAGCATGGTCACTAACATT
GTGTCAGACTAATAGGAAAAAAACAGAAAACGTCAATGCTGGTGCTGGTCATACTTTTGGTTTCAATTCT
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ATGAAAGACTATCTGTAATGTTGTAATTTGTATCTAAGTTTTTTAATGAGTGAAATTTGCATTATAAATT
TTTCCATTCATAAATACATAAGTGAACCAAAGGATTTTGGCCTCTCCTTTACTGGTTTGCTTTAATTATG
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TTTTCTCAATGCATCAGTTTTGAAAATATTTTTAGCTTAATCTTAATGTGTCCAAACAGTCAATGTGACA
GAATTTTGCAGATTTTGGAGCTAGACTGTGTCAGAGTAAGCACATGATATTCTGGGGGCAACATCTGAAG
GAGGAGTGCCACACCGGTCCTTTGGATTTTAATGAAACTGAATTTACATTGACTCAGTGAAAGGAAAATC
CTTTACATATTGTAAAGATGGATGCAGTTCATTTGTGGATAGGCATATTTAATCCATTCCCTGGCACTAG
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GGTTTGTATTGTAACTTTGATGCAACACATGCACTTTGTGTGTCTCCTTGATTCAAGGGAGGGTGTGAGG
GATACTTCTCTTGTATATAAGACTGTACTGCTTAGGATATTAAAGTAGATCACACAAGTGTGGGTTTCTA
TGTACTGAGGGTTGCAGATTTATGACAGCATAGTGATGAGAGCAGTGCAAAATATTTCTGAAAATTAAAG
ACCATTGTTCCTACCAAATCAATGATTCCATATATATTTTAACCTTTGTTATTTTTGAAGTACTATGTCA
TTAGCAATCAGATAGCTTTTTATTATGCATTTCCTTTTTGAAGCAAAATGTTTTCTTCATTTGTAAATAA
CCTGTTGTCTAAATTTTATCTAGTCTTTTATAATAAACTATGCTCCTATATGAAAAATTTGGATATTGTT
AAAGTATAACTAATGTGGATTTAAATAGTACAGACTTCAAAATTCTCTGACCTTTAATCCTATGGTGAAA
CAAAGACAAACCACTTGAATTTTAACGTTGATTATTTATTTGTGTAATGGCTTTACATGTGGGCATTAAC
AGTGTAAACAATACCACATATAACCATCAGGATACCTCGATTAGAATTTATAGGACTATAATGACACTGG
TTTAATTACATTTAAAAAGTTTTCCGAAAAACTTTGCCAATAAAAATTGCCCATCAATAAGGTTGAAAAA AAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN:	NM_145994
Insert Size:	1431 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:	BC004657, AAH04657
RefSeq Size:	3371 bp
RefSeq ORF:	1431 bp
Locus ID:	11308
Cytogenetics:	2 15.18 cM
Gene Summary:	May act in negative regulation of cell growth and transformation by interacting with nonreceptor tyrosine kinases ABL1 and/or ABL2. In vitro, at least isoform 2 and isoform 4 suppress the transforming activity of Abelson murine leukemia virus (v-Abl) after overexpression in fibroblasts. May play a role in regulation 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] Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. The resulting protein (isoform 2) is shorter compared to isoform 1.