

Product datasheet for **MR217156**

Abi1 (NM_001077190) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abi1 (NM_001077190) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abi1
Synonyms:	abi-1; E3B1; NAP1; Ssh3bp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR217156 representing NM_001077190
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGAGCTGCAGATGTTACTAGAGGAGGAGATCCCGTCTGGCAAGAGGGCGCTGATAGAGAGTTACC
 AGAACCTGACCCGGTGGCGGACTACTGTGAAAACAACTATATACAGGCTACAGACAAGAGAAAAGCTCT
 AGAAGAGACCAAAGCATATACAACTCAATCTCTAGCTAGTGTGCTTATCAAATAAATGCATTGGCCAAC
 AATGTGCTCCAGCTGCTGGATATCCAAGCATCTCAGCTGCGGAGGATGGAGTCATCCATCAATCACATCT
 CACAGACTGTGGATATTCATAAAGAAAAAGTGGCTCGAAGAGAGATTGGTATTTTGACAACAAAAGAA
 TACATCAAGAACTCACAAAATAATCGCACCCGCAAAATATGGAGCGTCTGTCTCAGGTATATTCGGAACCT
 ATCGACTATACAGTTCGGATGATGTGGCCATGGAGTTAAGTGGCTAAAAGCCAAGCACGAAATAACC
 AGCCTGCAAGAAGTGGCACATTGTGAGAACAAACCTCCACGAGAAACCACCAAGCCCTCCCGTGTCC
 GGGCCGAGGGACTTTGGGACGGAATACCCCTTACAAAACCTAGAGCCTGTTAAGCCTCCAACAGTTCCT
 AATGACTACATGACTAGTCTGCGAGGCTTGGAAAGCCAGCATAGTCCAGGAGGACAGCTCTTTAAATC
 AGAGACCAAGGACGCATAGTGAAGTAGTGGAGGAAGCGGAAGCCGAGAGAACAGTGGGAGCAGCAGCAT
 TGGCATTCTATTGCTGTGCCTACGCCCTCACCGCCACTGCGGGCCAGCAGCCCTGGCGCAGCTCCT
 GGTTCAGATATGGCACAATGACCAGGCAGATTCTCGACACAACCTTACCATTCTTCGACATCTTCTG
 GTGGATATAGACGAACTCTTCTGTGGCCGCCAATTCTCTGCTCAGCCTCATGTTAATGGAGGTCCACT
 TTATTCTCAAATTCATTTCTGTTGCCCTCCTCCTCCCCATGCCTCAGTTGACTCCACAGATCCCT
 CTCACAGGCTTCGTGGCCAGGTGCAGGAAAACATTGCTGATAGCCCAACTCCACCACCACCCCTCCAC
 CAGATGACATCCCATGTTTGTGACTCTCCGCCTCCTCCGACCTCCTCTGTGGACTATGAAGATGA
 GGAAGCTGCAGTAGTTTCAGTATAGTGACCCATATGCAGATGGGGACCTGCATGGGCTCCAAGAAGTAT
 ATTGAGAAAGTTGTTGCAATATATGATTATACAAAAGACAAGGATGATGAGCTGCTTTAAGAGGGTG
 CAATCATCTATGTTATAAAGAAGATGATGATGGCTGGTTTGAAGGAGTTTGCAATCGAGTGACTGGACT
 CTTCCCTGGAACTATGTTGAATCAATCATGACTATACTGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217156 representing NM_001077190
 Red=Cloning site Green=Tags(s)

MAELQMLLEEEIPSGKRALIESYQNLTRVADYCENNYIQATDKRKALEETKAYTTQSLASVAYQINALAN
 NVLQLLDIQASQLRRMESSINHISQTVDIHKEKVARREIGILTTNKNTSRTHKIIAPANMERPVRYIRKP
 IDYTVLDDVGHGVKWLKAKHGNNQPARTGTLRTNPPTQKPPSPVSGRGTGRNTPYKTLPEVKPPTVP
 NDYMTSPARLGSQHPGRTASLNQRPRTHSGSSGSGSRENSGSSSIGIPIAVPTSPPTAGPAAPGAAP
 GSQYGTMRQISRHNSTTSSTSSGGYRRTPSVAQFSAQPHVNGGPLYSQNSISVAPPPPPMPQLTPQIP
 LTGFVARVQENIADSPTPPPPPPDDIPMFDDSPPPPPPPVDYEDEEAHVQYSDPYADGPAWAPKNY
 IEKVVAIYDYTKDKDELDFKEGAIYVYIKKNDGWFEGVGNRVTGLFPGNYVESIMHYTD

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

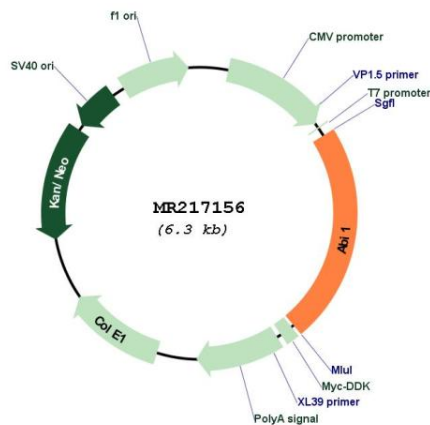
Sgfl-MluI

Cytogenetics: 2 15.18 cM

MW: 52.7 kDa

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]

Product images:



Circular map for MR217156