

## Product datasheet for **MG217156**

### Abi1 (NM\_001077190) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Abi1 (NM_001077190) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Abi1
Synonyms:	abi-1; E3B1; NAP1; Ssh3bp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG217156 representing NM\_001077190  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCAGAGCTGCAGATGTTACTAGAGGAGGAGATCCCGTCTGGCAAGAGGGCGCTGATAGAGAGTTACC  
 AGAACCTGACCCGGTGGCGGACTACTGTGAAAACAACTATATACAGGCTACAGACAAGAGAAAAGCTCT  
 AGAAGAGACCAAAGCATATACAACTCAATCTCTAGCTAGTGTGCTTATCAAATAAATGCATTGGCCAAC  
 AATGTGCTCCAGCTGCTGGATATCCAAGCATCTCAGCTGCGGAGGATGGAGTCATCCATCAATCACATCT  
 CACAGACTGTGGATATTCATAAAGAAAAAGTGGCTCGAAGAGAGATTGGTATTTTGACAACAAAAGAA  
 TACATCAAGAACTCACAAAATAATCGCACCCGCAAAATATGGAGCGTCTGTCTCAGGTATATTCGGAACCT  
 ATCGACTATACAGTTCTGGATGATGTGGCCATGGAGTTAAGTGGCTAAAAGCCAAGCACGGAAATAACC  
 AGCCTGCAAGAAGTGGCACATTGTGAGAACAAACCCTCCACGAGAAACCACCAAGCCCTCCCGTGTG  
 GGGCCGAGGGACTTTGGGACGGAATACCCCTTACAAAACCCTAGAGCCTGTTAAGCCTCCAACAGTTC  
 AATGACTACATGACTAGTCTGCGAGGCTTGGAAAGCCAGCATAGTCCAGGAGGACAGCTCTTTAAATC  
 AGAGACCAAGGACGCATAGTGAAGTAGTGGAGGAAGCGGAAGCCGAGAGAACAGTGGGAGCAGCAGCAT  
 TGGCATTCTATTGCTGTGCCTACGCCCTCACCGCCACTGCGGGCCAGCAGCCCTGGCGCAGCTCCT  
 GGTCCAGTATGGCACAATGACCAGGCAGATTCTCGACACAACCTTACCATTCTTCGACATCTTCTG  
 GTGGATATAGACGAACCTCTCTGTGGCCGCCAATTCTCTGCTCAGCCTCATGTTAATGGAGGTCCACT  
 TTATTCTCAAATTCATTTCTGTTGCCCTCCTCCTCCCATGCCTCAGTTGACTCCACAGATCCCT  
 CTCACAGGCTTCGTGGCCAGGTGCAGGAAAACATTGCTGATAGCCCAACTCCACCACCACCCCTCCAC  
 CAGATGACATCCCATGTTTGTGACTCTCCGCTCCTCCGACCTCCTCTGTGACTATGAAGATGA  
 GGAAGCTGCAGTAGTTTCAGTATAGTGACCCATATGCAGATGGGGACCTGCATGGGCTCCAAGAAGTAT  
 ATTGAGAAAGTTGTTGCAATATATGATTATACAAAAGACAAGGATGATGAGCTGCTTTAAGAGGGTG  
 CAATCATCTATGTTATAAAGAAGATGATGATGGCTGGTTGAAGGAGTTTGCAATCGAGTGACTGGACT  
 CTTCCCTGGAACTATGTTGAATCAATCATGACTATACTGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG217156 representing NM\_001077190  
 Red=Cloning site Green=Tags(s)

MAELQMLLEEEIPSGKRALIESYQNLTRVADYCENNYIQATDKRKALEETKAYTTQSLASVAYQINALAN  
 NVLQLLDIQASQLRRMESSINHISQTVDIHKEKVARREIGILTTNKNTSRTHKIIAPANMERPVRYIRKP  
 IDYTVLDDVGHGKWLKAKHGNQPARTGTLTRTNPTQKPPSPVSGRGTGRNTPYKTLPEVKPPTVP  
 NDYMTSPARLGSQHPGRTASLNQRPRTHSGSSGSGSRENSGSSIGIPIAVPTSPPTAGPAAPGAAP  
 GSQYGTMRQISRHNSTTSSTSSGGYRRTPSVAQFSAQPHVNGGPLYSQNSISVAPPPMPQLTPQIP  
 LTGFVARVQENIADSPTPPPPPPDDIPMFDDSPPPPPPPVDYEDEEAHVQYSDPYADGDPAWAPKNY  
 IEKVVAIYDYTKDKDELFSKEGAIYVIKKNDGWFEGVGNRVTGLFPGNYVESIMHYTD

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001077190

**ORF Size:** 1443 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\\_001077190.3](#)

**RefSeq Size:** 3504 bp

**RefSeq ORF:** 1446 bp

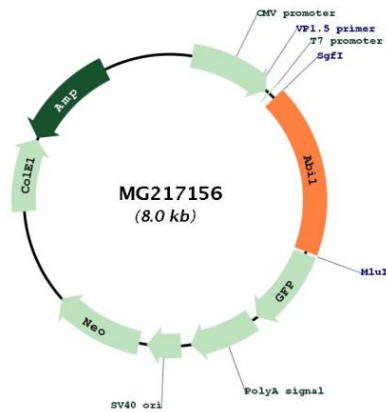
**Locus ID:** 11308

**UniProt ID:** [Q8CBW3](#)

**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]

**Product images:**



Circular map for MG217156