

Product datasheet for **MG207119**

Abi2 (NM_198127) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abi2 (NM_198127) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Abi2
Synonyms:	8430425M24Rik; AI839867; C130078H13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207119 representing NM_198127
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGCTGCAGATGCTGCTGGAAGAGGAAATCCCGGGGGCCGCCGGGCTCTCTTCGACAGCTACA
 CGAATCTGGAGCGGGTGGCCGACTACTGCGAGAATAACTACATCCAGTACCAGATAAGCAGCGAGCCCT
 AGAAGAAACCAAAGCCTACACCACTCAATCCTTAGCAAGTGTTCGTATCTGATAAACACCTTGCCAAC
 AATGTCCTACAGATGCTGGATATCCAGGCATCACAGTTACGGAGGATGGAGTCTTCAATCAACCATATTT
 CACAAACAGTTGATATTCATAAAGAGAAGGTTGCAAGAAGAGAAAATGGTATTTTGACCACCAATAAAAA
 CACTTCAAGGACCATAAGATTATTGCGCCAGCCAACCTTGAGCGGCCAGTTCGTATATTCGAAAACT
 ATTGACTACACAATTTAGATGACATTGGACATGGAGTGAAGGTGAGTACCCAGAATATGAAAATGGGTG
 GATTGCCACGTACGACACCTCCAACCTCAGAAGCCCCAAGTCCCCCTATGTCAGGGAAGGGGACACTTGG
 GCGGCACTCCCCCTATCGAACACTGGAGCCAGTGGTCCCTCCAGTGGTACCAAATGATTACGTACCTAGC
 CCAACCGTAATATGGCTCCCTCGCAGCAGAGCCCTGTGAGGACAGCTTCTGTGAATCAAAGAAATCGAA
 CTTACAGCAGCAGTGGGAGCAGTGGAGGAAGTACCCAAGTAGTCGGAGCAGCAGTCGGGAGAACAGCGG
 AAGTGGTAGTGTGGGGTACCCATTGCTGTGCCTACTCCGTCTCCTCCAAGCGTCTTTCCAGGTCATCCT
 GTTCAGTTCTACAGCATGAACAGGCCTGCCTCTCGCCATACACCACCTACAATAGGGGGCTGTTGCCCT
 ATAGACGTCTCCTTCCATAACGTCACAAACAAGCCTTCAGAATCAGATGAATGGAGTCCCTTTTATAA
 CCAGAATCCAGTTTCAGATACACCACCTCCACCCACCTGTGGAAGAGCCAGTCTTTGATGAATCCCC
 CCTCCACCGCCTCCTCCAGAAGATTATGAAGAGGAGGAAGCAGCTGTGGTTGAGTACAGCGATCCGTACG
 CTGAAGAGGACCCACCGTGGGCGCCAAGGGCTTACTTGGAAAAGTTGTGGCAATTTATGATTATACAAA
 AGACAAGGAAGATGAGCTGTCTTTTCAGGAAGGAGCCATTATATATGTCATCAAGAAGAATGACGATGGT
 TGGTATGAGGGAGTTATGAATGGTGTGACCGGGCTCTTCCCTGGAACTATGTTGAGTCCATCATGCATT
 ATTCGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207119 representing NM_198127
 Red=Cloning site Green=Tags(s)

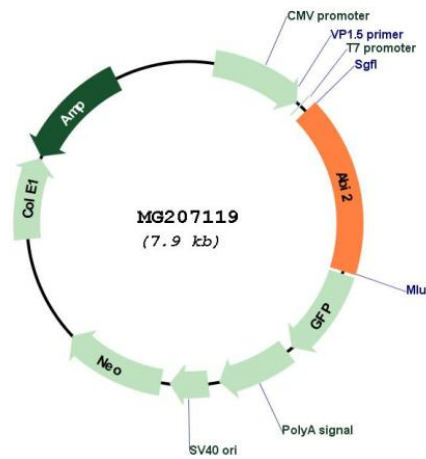
MAELQMLLEEEIPGGRRALFDSYTNLERVADYCENNYIQSPDKQRALEETKAYTTQSLASVAYLINTLAN
 NVLQMLDIQASQLRRMESSINHISQTVDIHKEKVARREIGILTNNKNTSRTHKIIAPANLERPVYIRKP
 IDYTIILDDIGHGVKVVSTQNMKMGGLPRTTPPTQKPPSPPMSGKTLGRHSPYRTPLEPVRPPVVPNDYVPS
 PTRNMAPSQQSPVRTASVNQRNRTYSSSGSSGGSHPSRSSSRENSGSGSVGVPIAVPTPSPPSVFPGHP
 VQFYSMNRPASRHTPPTIGGSLPYRRPPSITSQTSLNQNMGGPFYFNQNPVSDTPPPPPVVEEPVFDESP
 PPPPPPEDEEEEEAAVVEYSDPYAEEDPPWAPRAYLEKVVAIYDYTKDKEDELSFQEGAIIVYIKKNDGG
 WYEGVMNGVTGLFPGNYVESIMHYSE

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_198127

ORF Size: 1338 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:	<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:	NM_198127.2
RefSeq Size:	5605 bp
RefSeq ORF:	1341 bp
Locus ID:	329165
UniProt ID:	P62484
Cytogenetics:	1 C2
Gene Summary:	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). [UniProtKB/Swiss-Prot Function]