

Product datasheet for **MR207119**

Abi2 (NM_198127) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abi2 (NM_198127) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abi2
Synonyms:	8430425M24Rik; AI839867; C130078H13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207119 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAGCTGCAGATGCTGCTGGAAGAGGAAATCCCGGGGGCCGCCGGGCTCTCTTCGACAGCTACA
 CGAATCTGGAGCGGGTGGCCGACTACTGCGAGAATAACTACATCCAGTACCAGATAAGCAGCGAGCCCT
 AGAAGAAACCAAAGCCTACACCACTCAATCCTTAGCAAGTGTTCGTATCTGATAAACACCTTGGCCAAC
 AATGTCCTACAGATGCTGGATATCCAGGCATCACAGTTACGGAGGATGGAGTCTTCAATCAACCATATTT
 CACAAACAGTTGATATTCATAAAGAGAAGGTTGCAAGAAGAGAAAATGGTATTTTGACCACCAATAAAAA
 CACTTCAAGGACCATAAGATTATTGCGCCAGCCAACCTTGAGCGGCCAGTTCGTATATTCGAAAACT
 ATTGACTACACAATTTAGATGACATTGGACATGGAGTGAAGGTGAGTACCCAGAATATGAAAATGGGTG
 GATTGCCACGTACGACACCTCCAACCTCAGAAGCCCCAAGTCCCCCTATGTCAGGGAAGGGGACACTTGG
 GCGGCACTCCCCCTATCGAACACTGGAGCCAGTGGTCTCCAGTGGTACCAAATGATTACGTACCTAGC
 CCAACCGTAATATGGCTCCCTCGCAGCAGAGCCCTGTGAGGACAGCTTCTGTGAATCAAAGAAATCGAA
 CTTACAGCAGCAGTGGGAGCAGTGGAGGAAGTACCCAAGTAGTCGGAGCAGCAGTCGGGAGAACAGCGG
 AAGTGGTAGTGTGGGGTACCCATTGCTGTGCCTACTCCGTCTCCTCAAAGCGTCTTTCCAGGTCATCCT
 GTTCAGTTCTACAGCATGAACAGGCCTGCCTCTCGCCATACACCACCTACAATAGGGGGCTGTTGCCCT
 ATAGACGTCTCCTTCCATAACGTCACAAAACAGCCTTCAGAATCAGATGAATGGAGTCTTTTTATAA
 CCAGAATCCAGTTTCAGATACACCACCTCCACCCACCTGTGGAAGAGCCAGTCTTTGATGAATCCCC
 CCTCCACCGCCTCCTCCAGAAGATTATGAAGAGGAGGAAGCAGCTGTGGTTGAGTACAGCGATCCGTACG
 CTGAAGAGGACCCACCGTGGGCGCCAAGGGCTTACTTGGAAAAGTTGTGGCAATTTATGATTATACAAA
 AGACAAGGAAGATGAGCTGTCTTTTCAGGAAGGAGCCATTATATATGTCATCAAGAAGAATGACGATGGT
 TGGTATGAGGGAGTTATGAATGGTGTGACCGGGCTCTTCCCTGGAACTATGTTGAGTCCATCATGCATT
 ATTCGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207119 protein sequence
 Red=Cloning site Green=Tags(s)

MAELQMLLEEEIPGGRRALFDSYTNLERVADYCENNYIQSPDKQRALEETKAYTTQSLASVAYLINTLAN
 NVLQMLDIQASQLRRMESSINHISQTVDIHKEKVARREIGILTTNKNTSRTHKIIAPANLERPVYIRKP
 IDYITLDDIGHGVKVVSTQNMKGGLPRTTPPTQKPPSPMSGKTLGRHSPYRTLEPVRPPVVPNDYVPS
 PTRNMAPSQSPVRTASVNQRNRTYSSGSSGGSHPPSSRSSRENSGSGSVGVPIAVPTPSPSVFPGHP
 VQFYSMNRPASRHTPPTIGGSLPYRRPPTSITQSLQNMNGGPFYNQNPVSDTPPPPPVEEPVFDESP
 PPPPPPEYEEEEAAVVEYSDPYAEEDPPWAPRAYLEKVVVAIYDYTKDELSFQEGAIIVYIKKNDG
 WYEGVMNGVTGLFPGNYVESIMHYSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_198127

ORF Size: 1341 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_198127.2](#)
RefSeq Size: 5790 bp

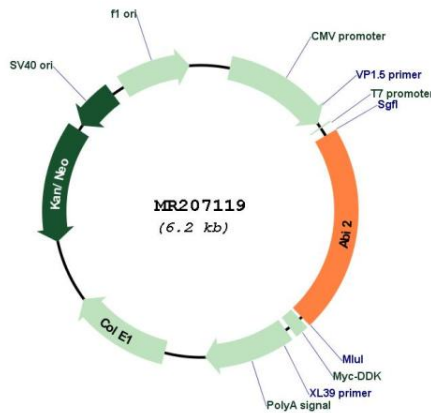
RefSeq ORF: 1341 bp

Locus ID: 329165

UniProt ID: [P62484](#)

Cytogenetics:	1 C2
MW:	49.4 kDa
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). [UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR207119