

Product datasheet for **MR206000**

Apbb1 (BC048395) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apbb1 (BC048395) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Apbb1
Synonyms:	Fe65; Rir
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206000 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTTGGGACTGAAGGACCCGAGGAGGGCGACATTGTCTTCCCAGCTCAGAGCCTCAGCCCAGAAC
CAGTTCGCCAGGAGGAAGAGAAGCTGTCCCAACGGAATGCCAACCCAGGGATCAAGTGTTCGCTGTGCG
CTCCCTAGGCTGGGTAGAGATGACCGAGGAGGAGCTGGCCCCAGGACGCAGCAGTGTGGCAGTCAACAAT
TGTATCCGCCAGCTCTCTACCACAAAAACAATCTACATGATCCGATGGCTGGGGCTGGGAGAGGGAA
AGGATCTGCTGCTCCAGCTGGAGGACGAGACTCTAAAGTTGGTGGAGCCACAGAACCAGACGCTGCTGCA
TGCACAGCCCATCGTCAGCATTCTGTGTGGGGCTGGGCGGGACAGTGAAGAGAGAGGGACTTTGCC
TACGTAGCTCGAGATAAGCTGACCCAGATGCTCAAGTGCCACGTGTTTCGCTGTGAGGCACCTGCCAAGA
ACATCGCCACCAGCCTGCATGAGATCTGCTCCAAGATCATGTCTGAACGGCGCAATGCTCGCTGCTTGGT
CAATGGACTCTCCCTAGACCACTCTAAACTCGTGGATGTCCCTTTCCAAGTGAATTCCCAGCACCAAAAG
AATGAGCTGGTGCAGAAGTTCCAAGTCTATTACCTGGGAAATGTGCCAGTTGCTAAACCTGTTGGGGTAG
ACGTGATTAATGGGGCCCTGGAGTCAGTCTGTCTTCCAGTAGCCGTGAGCAGTGGACTCCAAGTCACGT
CAGCGTGGCCCCGTCACCCTCACCATCTGCACCAGCAGACAGAAGCGGTGCTGGGGAGTGCCGGGTG
CGTTTTCTCTCTCTGGCTGTGGGCAGAGATGTGCACACATTCGCTTCATCATGGCTGCCGGCCCCAG
CCTCCTTCTGCTGCACATGTTTTGGTGTGAGCCAATGCTGCCAGTCTCTCAGAGGCTGTGACGGCTGC
ATGCATGCTCCGCTACCAGAAGTGTCTGGATGCTCGCTCCAGACCTCCACCTCTGCTCCCAGACCC
CCTGCGGAGTCAGTTGCAAGACGTGTAGGGTGGACAGTCCGAGGGGTGTTCAAGTCCGCTGTGGGTTCC
TCAAGCCCAAACGTCTGGGATCCAGACCCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206000 protein sequence
Red=Cloning site Green=Tags(s)

MELGLKDPEEATLSFPAQSLSPEVPVQEEELKLSQRNANPGIKCFAVRSLGWVEMTEEELAPGRSSVAVNN
 CIRQLSYHKNNLHDPMAGGWGEGKDLLLQLEDETLKLVQPQNQTLLHAQPIVSIRVWGVGRDSGRERDFA
 YVARDKLTQMLKCHVFRCEAPAKNIATSLHEICSKIMSERRNARCLVNGLSLDHSLKLVDPVFQVEFPAPK
 NELVQKFQVYYLGNVPVAKPVGVVDVINGALESVLSSSSREQWTPSHVSVAPATLTLHQQTAVLGEICRV
 RFLSFLAVGRDVHTFAFIMAAGPASFCCHMFWCEPNAASLSEAVQAACMLRYQKCLDARSQTSTSCLPAP
 PAESVARRVGTVRRGVQSLWGLKPKRLGSQTP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC048395

ORF Size: 1152 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: [BC048395](#), [AAH48395](#)

RefSeq Size: 2065 bp

RefSeq ORF: 1154 bp

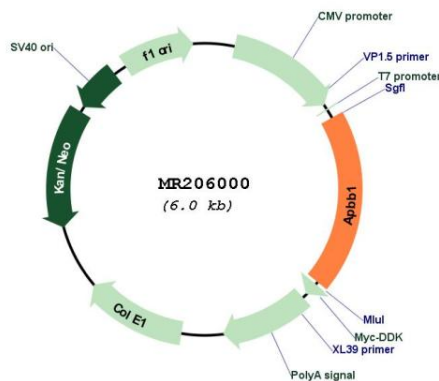
Locus ID: 11785

Cytogenetics: 7 55.9 cM

MW: 42.4 kDa

Gene Summary: Adapter protein that forms a transcriptionally active complex with the gamma-secretase-derived amyloid precursor protein (APP) intracellular domain. Plays a central role in the response to DNA damage by translocating to the nucleus and inducing apoptosis. May act by specifically recognizing and binding histone H2AX phosphorylated on 'Tyr-142' (H2AXY142ph) at double-strand breaks (DSBs), recruiting other pro-apoptosis factors such as MAPK8/JNK1. Required for histone H4 acetylation at double-strand breaks (DSBs). Its ability to specifically bind modified histones and chromatin modifying enzymes such as KAT5/TIP60, probably explains its transcription activation activity. Function in association with TSHZ3, SET and HDAC factors as a transcriptional repressor, that inhibits the expression of CASP4. Associates with chromatin in a region surrounding the CASP4 transcriptional start site(s).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206000