

## Product datasheet for **MC217686**

### Apbb1 (BC048395) Mouse Untagged Clone

#### Product data:

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGTTGGGACTGAAGGACCCCGAGGAGGGCGACATTGTCTTCCCAGCTCAGAGCCTCAGCCCAGAAC  
CAGTTCCCAGGAGGAAGAGAAGCTGTCCCAACGGAATGCCAACCCAGGGATCAAGTGTTCGCTGTGCG  
CTCCCTAGGCTGGGTAGAGATGACCGAGGAGGAGCTGGCCCCAGGACGCAGCAGTGTGGCAGTCAACAAT  
TGTATCCGCCAGCTCTCTACCACAAAAACAATCTACATGATCCGATGGCTGGGGCTGGGAGAGGGAA  
AGGATCTGCTGCTCCAGCTGGAGGACGAGACTCTAAAGTTGGTGGAGCCACAGAACCAGACGCTGCTGCA  
TGCACAGCCCATCGTCAGCATTGCTGTGGGGCTGGGCGGGACAGTGAAGAGAGAGGGACTTTGCC  
TACGTAGCTCGAGATAAGCTGACCCAGATGCTCAAGTGCCACGTGTTTCGCTGTGAGGCACCTGCCAAGA  
ACATCGCCACCAGCCTGCATGAGATCTGCTCCAAGATCATGTCTGAACGGCGCAATGCTCGCTGCTTGGT  
CAATGGACTCTCCCTAGACCACTCTAAACTCGTGGATGTCCCTTTCCAAGTGAATTCCCAGCACCAAAAG  
AATGAGCTGGTGCAGAAGTTCCAAGTCTATTACCTGGGAAATGTGCCAGTTGCTAAACCTGTTGGGGTAG  
ACGTGATTAATGGGGCCCTGGAGTCAGTCTGTCTCCAGTAGCCGTGAGCAGTGGACTCCAAGTCACGT  
CAGCGTGGCCCCTGCCACCCTCACCATCTGCACCAGCAGACAGAAGCGGTGCTGGGGAGTGCCGGGTG  
CGTTTTCTCTCTCTGCTGTGGGCGAGAGATGTGCACACATTGCGTTTCATGCTGCTGCCGGCCAG  
CCTCCTTCTGCTGCACATGTTTTGGTGTGAGCCAATGCTGCCAGTCTCTCAGAGGCTGTGACGGCTGC  
ATGCATGCTCCGCTACCAGAAGTGTCTGGATGCTCGCTCCAGACCTCCACCTCTGCTCCCAGACCC  
CCTGCGGAGTCAGTTGCAAGACGTGTAGGGTGGACAGTCCGAGGGGTGTTCAAGTGTGGGTTCC  
TCAAGCCCAAACGTCTGGGATCCAGACCCCATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	BC048395
<b>Insert Size:</b>	1155 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC048395</a> , <a href="#">AAH48395</a>
<b>RefSeq Size:</b>	2065 bp
<b>RefSeq ORF:</b>	1154 bp
<b>Locus ID:</b>	11785
<b>Cytogenetics:</b>	7 55.9 cM
<b>Gene Summary:</b>	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]