

## Product datasheet for **MC220704**

### Apbb1 (NM\_009685) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Apbb1 (NM_009685) 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)



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**Fully Sequenced ORF:** >MC220704 representing NM\_009685  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCTGTTCATCATCCCTGAGCCAGTCGGCCATTAACGCTAACAGCCACGGAGGCCCTGCACTCAGCT  
 TCCCTTACCCTGCACGCTGCCATAACCAGCTGCTCAACGCCAAGCTGCAAGCCACAGCTGTGGTACC  
 CAAGACCTTCGAAGTGCTATGGGAGAGGGTAGTGTGCCTGAACCAAGCCCTGCCAATGCCAAGTGTTA  
 AAGGAAGGCCAGAACCAGCTTCGGAGGGCTGCCACAGCCACCGAGACCAGAACCAGAAATGTGACCTTGA  
 CCTTGGCGGAGGAGGCCAGCCAGGAGGCTGAGACGGCACCTTTGGGTCCAAAGGCTTAATGCATCTATA  
 CTCTGAGCTGGAGCTCTCGGCCACAATGCAGCCAACCGAGGGCTTCATGGATCCGCCTTGATCATCAAC  
 ACCCAGGAACAGGACCAGATGAAGGAGAGGAGAAGGCAGCAGGAGAGGCTGAGGAGGATGATGAAGACG  
 AAGAGGAGGAGGAGGAGGAGGACTTGTCTTCTCCTCCAGGGCTACCTGAGCCTCTGGAGAATGTGGA  
 AGTCCCTCTGGGCCCGAGCCCTCACAGACGGCCCCCGGAACACAGCAAGAGTCTAGCCTCCTATTT  
 GGCATGCCAAACAGTGCAGCCAGTATGAGGACTCAAGCTGGGCCACCTTATCACAGGGCAGCCCTCCT  
 ATGGCTCCCCGGAGGACACAGATTCCTTCTGGAACCCCAACGCTTTCGAGACGGATTCCGATCTACCGGC  
 TGGATGGATGAGGGTACAGGACCTCAGGGACCTACTACTGGCACATCCCAACAGGGACCACCCAGTGG  
 GAACCCCGAGGCCGGCCCTCCCCCTCACAGGGGAGCAGCCCCAAGAAGAGTCCCAGCTCACCTGGACTG  
 GCTTTGCTACCAAGAAGGCTTTGAGGAAGGAGAGTTTGGAAAGGATGAACCCAGTGAGGAGGCCCAAT  
 GGAGTTGGGACTGAAGGACCCCGAGGAGGCGACATTGTCTTCCAGCTCAGAGCCTCAGCCAGAACCA  
 GTTCCCCAGGAGGAAGAGAAGCTGTCCCAACGGAATGCCAACCCAGGGATCAAGTGTTCGCTGTGCGCT  
 CCCTAGGCTGGGTAGAGATGACCGAGGAGGAGCTGGCCCCAGGACGACAGTGTGGCAGTCAACAATTG  
 TATCCGCCAGCTCTCCTACCACAAAAACAATCTACATGATCCGATGGCTGGGGGCTGGGGAGAGGGAAAG  
 GATCTGCTGCTCCAGCTGGAGGACGAGACTCTAAAGTTGGTGGAGCCACAGAACCAGACGCTGCTGCATG  
 CACAGCCCATCGTCAGCATTCTGTGTGGGGCGTTGGGCGGGACAGTGGAAAGGACTTTGCCTACGTAGC  
 TCGAGATAAGCTGACCCAGATGCTCAAGTGCCACGTGTTTCGCTGTGAGGCACCTGCCAAGAACATCGCC  
 ACCAGCCTGCATGAGATCTGCTCAAGATCATGTCTGAACGGCGCAATGCTCGCTGCTTGGTCAATGGAC  
 TCTCCCTAGACCACTCTAAACTCGTGGATGTCCCTTCCAAGTGGAAATCCCAGCACCAAGAATGAGCT  
 GGTGCAGAAGTTCCAAGTCTATTACCTGGGAAATGTGCCAGTTGCTAAACCTGTTGGGTAGACGTGATT  
 AATGGGGCCCTGGAGTCAGTCTGTCTTCCAGTAGCCGTGAGCAGTGGACTCCAAGTCAAGTCAAGTCAAGT  
 CCCTGCCACCCTCACCATCTTGACACCAGCAGACAGAAGCGGTGCTGGGGGAGTGCAGGGTGCAGTTCT  
 CTCTTCTCGGCTGTGGGCAGAGATGTGCACACATTCGCGTTTCATCATGGCTGCCGGCCAGCCTCCTTC  
 TGCTGTACATGTTTTGGTGTGAGCCCAATGCTGCCAGTCTCTCAGAGGCTGTGCAGGCTGCATGCATGC  
 TCCGCTACCAGAAGTGTCTGGATGCTCGCTCCCAGACCTCCACCTCCTGCCTCCCAGCACCCCTGCGGA  
 GTCAGTTGCAAGACGTGTAGGGTGGACAGTCCGCAGGGGTGTTCAAGTCTGCTGTGGGGTCCCTCAAGCCC  
 AAACGTCTGGGATCCCAGACCCCA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_009685

**Insert Size:** 2127 bp

**OTI Disclaimer:** 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>	<u>NM_009685.3, NP_033815.1</u>
<b>RefSeq Size:</b>	2730 bp
<b>RefSeq ORF:</b>	2127 bp
<b>Locus ID:</b>	11785
<b>UniProt ID:</b>	<u>Q9QXJ1</u>
<b>Cytogenetics:</b>	7 55.9 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and lacks an in-frame exon in the coding region compared to variant 1. This results in a shorter protein (isoform 2) compared to isoform 1. Variants 2 and 4 encode the same isoform (2).</p>