

Product datasheet for **MC227765**

Apbb1 (NM_001253887) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apbb1 (NM_001253887) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Apbb1
Synonyms:	Fe65; Rir
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC227765 representing NM_001253887
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGGTACAGGACACCTCAGGGACCTACTACTGGCACATCCCAACAGGGACCACCCAGTGGGAACCCC
 CAGGCCGGCCTCCCCCTCACAGGGGAGCAGCCCCAAGAAGAGTCCCAGCTCACCTGGACTGGCTTTGC
 TCACCAAGAAGGCTTTGAGGAAGGAGAGTTTTGGAAGGATGAACCCAGTGAGGAGCCCCAATGGAGTTG
 GGACTGAAGGACCCCGAGGAGGCGACATTGTCCTTCCAGCTCAGAGCCTCAGCCAGAACCAGTCCCC
 AGGAGGAAGAGAAGCTGTCCCAACGGAATGCCAACCCAGGGATCAAGTGTTCGCTGTGCGCTCCCTAGG
 CTGGGTAGAGATGACCGAGGAGGAGCTGGCCCCAGGACGCAGCAGTGTGGCAGTCAACAATTGTATCCGC
 CAGCTCTCTACCACAAAAACAATCTACATGATCCGATGGCTGGGGCTGGGGAGAGGGAAAGGATCTGC
 TGCTCCAGCTGGAGGACGAGACTCTAAAGTTGGTGGAGCCACAGAACCAGACGCTGCTGCATGCACAGCC
 CATCGTCAGCATTGCTGTGTGGGGCTGGGGCGGACAGTGGAAGAGAGAGGGACTTTGCCTACGTAGCT
 CGAGATAAGCTGACCCAGATGCTCAAGTGCCACGTGTTTCGCTGTGAGGCACCTGCCAAGAACATCGCCA
 CCAGCCTGCATGAGATCTGCTCCAAGATCATGTCTGAACGGCGCAATGCTCGCTGCTTGGTCAATGGACT
 CTCCCTAGACCACTCTAAACTCGTGGATGTCCCTTCCAAGTGGAAATCCCAGCACCAAAGAATGAGCTG
 GTGCAGAAATTCCAAGTCTATTACCTGGGAAATGTGCCAGTTGCTAAACCTGTTGGGGTAGACGTGATTA
 ATGGGGCCCTGGAGTCAGTCCTGTCTTCCAGTAGCCGTGAGCAGTGGACTCCAAGTCACGTCAGCGTGCC
 CCCTGCCACCCCTACCATCTTGCACCAGCAGACAGAAGCGGTGCTGGGGGAGTGCCGGGTGCGGTTTCTC
 TCCTTCTGGCTGTGGGCAGAGATGTGCACACATTCGCGTTCATCATGGCTGCCGGCCAGCCTCCTTCT
 GCTGTACATGTTTTGGTGTGAGCCCAATGCTGCCAGTCTCTCAGAGGCTGTGCAGGCTGCATGCATGCT
 CCGCTACCAGAAGTGTCTGGATGCTCGCTCCAGACCTCCACCTCCTGCCTCCAGCACCCCTGCGGAG
 TCAGTTGCAAGACGTGTAGGGTGGACAGTCCGAGGGGTGTTTCAGTCGCTGTGGGGTTCCTCAAGCCCA
 AACGTCTGGGATCCAGACCCCA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001253887
- Insert Size:** 1356 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001253887.1](#), [NP_001240816.1](#)

RefSeq Size: 1922 bp

RefSeq ORF: 1356 bp

Locus ID: 11785

Cytogenetics: 7 55.9 cM

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]

Transcript Variant: This variant (3) differs in the 5' UTR and has multiple coding region differences compared to variant 1. These differences cause translation initiation at a downstream AUG and result in an isoform (3) with a shorter N-terminus compared to isoform 1.