

## Product datasheet for **MR222163**

### Apbb1 (NM\_009685) Mouse Tagged ORF Clone

#### Product data:

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



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ORF Nucleotide  
Sequence:

>MR222163 representing NM\_009685  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCTGTTCATCATCCCTGAGCCAGTCGGCCATTAACGCTAACAGCCACGGAGGCCCTGCACTCAGCT  
TCCCCTTACCCCTGCACGCTGCCATAACCAGCTGCTCAACGCCAAGCTGCAAGCCACAGCTGTGGTACC  
CAAGGACCTTCGAAGTGCTATGGGAGAGGGTAGTGTGCCTGAACCAAGCCCTGCCAATGCCAAGTGGTTA  
AAGGAAGGCCAGAACCAGCTTCGGAGGGCTGCCACAGCCACCGAGACCAGAACCAGAAATGTGACCTTGA  
CCTTGGCGGAGGAGGCCAGCCAGGAGGCTGAGACGGCACCTTTGGGTCCCAAAGGCTTAATGCATCTATA  
CTCTGAGCTGGAGCTCTCGGCCACAATGCAGCCAACCGAGGGCTTCATGGATCCGCCTTGATCATCAAC  
ACCCAGGAACAGGGACCAGATGAAGGAGAGGAGAAGGCAGCAGGAGAGGCTGAGGAGGATGATGAAGACG  
AAGAGGAGGAGGAGGAGGAGGACTTGTCTTCTCCTCCAGGGTACCTGAGCCTCTGGAGAATGTGGA  
AGTCCCCTCTGGGCCCGAGCCCTCACAGACGGCCCCCGGAACACAGCAAGAGTCTAGCCTCCTATTT  
GGCATGCCAAACAGTGCAGCCAGTATGAGGACTCAAGCTGGGCCACCTTATCACAGGGCAGCCCCCTCT  
ATGGCTCCCCGGAGGACACAGATTCCTTCTGGAACCCCAACGCTTTCGAGACGGATTCCGATCTACCGGC  
TGGATGGATGAGGGTACAGGACCTCAGGGACCTACTACTGGCACATCCCAACAGGGACCACCCAGTGG  
GAACCCCGAGGCCGGCCCTCCCCCTCACAGGGGAGCAGCCCCCAAGAAGAGTCCCAGCTCACCTGGACTG  
GCTTTGCTACCAAGAAGGCTTTGAGGAAGGAGAGTGGGAAGGATGAACCCAGTGAGGAGGCCCAAT  
GGAGTTGGGACTGAAGGACCCCGAGGAGGCGACATTGTCTTCCAGCTCAGAGCCTCAGCCAGAACCA  
GTTCCCGAGGAGAAGAGAAGCTGTCCCAACGGAATGCCAACCCAGGGATCAAGTGTTCGCTGTGCGT  
CCTTAGGCTGGGTAGAGATGACCGAGGAGGAGCTGGCCCCAGGACGCAGCAGTGTGGCACAACAAATG  
TATCCCGCAGCTCCTACCACAAAAACAATCTACATGATCCGATGGCTGGGGGCTGGGGAGAGGGAAAG  
GATCTGCTGCTCCAGCTGGAGGACGAGACTCTAAAGTTGGTGGAGCCACAGAACCAGACGCTGCTGCATG  
CACAGCCCATCGTCAGCATTCTGTGTGGGGCGTTGGGCGGGACAGTGGAAAGGACTTTGCCTACGTAGC  
TCGAGATAAGCTGACCCAGATGCTCAAGTGCCACGTGTTTCGCTGTGAGGCACCTGCCAAGAACATCGCC  
ACCAGCCTGCATGAGATCTGCTCAAGATCATGTCTGAACGGCGCAATGCTCGCTGCTTGGTCAATGGAC  
TCTCCCTAGACCACTCTAAACTCGTGGATGTCCCTTCCAAAGTGGAAATCCCAGCACCAAGAATGAGCT  
GGTGCAGAAGTTCCAAGTCTATTACCTGGGAAATGTGCCAGTTGCTAAACCTGTTGGGGTAGACGTGATT  
AATGGGGCCCTGGAGTCAGTCTGTCTTCCAGTAGCCGTGAGCAGTGGACTCCAAGTACAGTCAGCGTGG  
CCCTGCCACCCTCACCATCTTGACACCAGCAGACAGAAGCGGTGCTGGGGGAGTGCCGGGTGCGGTTTCT  
CTCCTTCTGGCTGTGGGCAGAGATGTGCACACATTTCGCGTTCATCATGGCTGCCGGCCAGCCTCCTTC  
TGCTGTACATGTTTTGGTGTGAGCCCAATGCTGCCAGTCTCTCAGAGGCTGTGCAGGCTGCATGCATGC  
TCCGCTACCAGAAGTGTCTGGATGCTCGCTCCCAGACCTCCACCTCCTGCCTCCCAGCACCCCTGCGGA  
GTCAGTTGCAAGACGTGTAGGGTGGACAGTCCGCAGGGGTGTTCAAGTCTGCTGTGGGGTCCCTCAAGCCC  
AAACGTCTGGGATCCCAGACCCCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR222163 representing NM\_009685  
 Red=Cloning site Green=Tags(s)

MSVPSSLQSAINANSHGGPALSFPPLPLHAAHNQLLNAKLQATAVVPKDLRSAMGEGSVPEPGPANAKWL  
 KEGQNQLRRAATAHRDQNRNVTLLAEEASQEAETAPLGPGLMHL YSELELSAHNAANRGLHGSAL IIN  
 TQEQGPDEGEEKAAGEAEEDDEDEEEEEEDLSSPGLPELENVEVPSGPQALTDGPREHSKSASLLF  
 GMRNSAASDEDSSWATLSQGSPSYGSPEDTDSFWNPNAFETDSDLPAGWMRVQDTSGTYWHIPTGTQW  
 EPPGRASPSQGSSPQEESQLTWTGFAHQEGFEEGEFWKDEPSEEAPMELGLKDPEEATLSFPAQSLSPEP  
 VPQEEELKLSQRNANPGIKCFAVRSLGWVEMTEELAPGRSSVAVNNCIRQLSYHKNNLHDPMAGGWGEGK  
 DLLLQLEDETLKLVQPQNQTLHQAQPIVIRVWGVGRDSGRDFAYVARDKLTQMLKCHVFRCEAPAKNIA  
 TSLHEICSKIMSERRNARCLVNLGLSLDHSKLVDPVFQVEFPAPKNELVQKFQVYYLGNVPVAKPVGVDVI  
 NGALESVLSSSSREQWTPSHVSVAPATLILHQQTEAVLGEICRVRFSLFVAVGRDVHTFAFIMAAGPASF  
 CCHMFWCEPNAASLSEAVQAACMLRYQKCLDARSQTSTSCLPAPPAESVARRVGVTVRRGVQSLWGLKPK  
 KRLGSQTP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009685

**ORF Size:** 2124 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\\_009685.3](#), [NP\\_033815.1](#)

**RefSeq Size:** 2593 bp

**RefSeq ORF:** 2127 bp

**Locus ID:** 11785

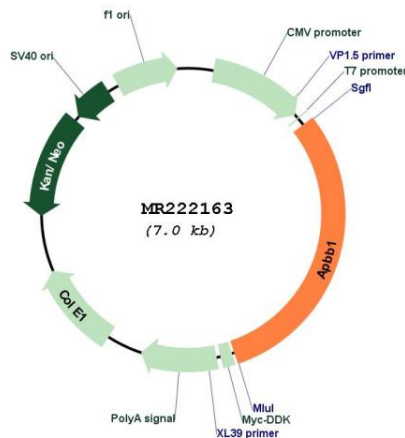
**UniProt ID:** [Q9QXJ1](#)

**Cytogenetics:** 7 55.9 cM

**MW:** 77.6 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 MR222163