

## Product datasheet for **MG222163**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Apbb1 (NM_009685) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Apbb1
Synonyms:	Fe65; Rir
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG222163 representing NM\_009685  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTGTTCATCATCCCTGAGCCAGTCGGCCATTAACGCTAACAGCCACGGAGGCCCTGCACTCAGCT  
 TCCCCTTACCCCTGCACGCTGCCATAACCAGCTGCTCAACGCCAAGCTGCAAGCCACAGCTGTGGTACC  
 CAAGGACCTTCGAAGTGCTATGGGAGAGGGTAGTGTGCCTGAACCAAGCCCTGCCAATGCCAAGTGGTTA  
 AAGGAAGGCCAGAACCAGCTTCGGAGGGCTGCCACAGCCACCGAGACCAGAACCAGAAATGTGACCTTGA  
 CCTTGGCGGAGGAGGCCAGCCAGGAGGCTGAGACGGCACCTTTGGGTCCCAAAGGCTTAATGCATCTATA  
 CTCTGAGCTGGAGCTCTCGGCCACAATGCAGCCAACCGAGGGCTTCATGGATCCGCCTTGATCATCAAC  
 ACCCAGGAACAGGGACCAGATGAAGGAGAGGAGAAGGCAGCAGGAGAGGCTGAGGAGGATGATGAAGACG  
 AAGAGGAGGAGGAGGAGGAGGACTTGTCTTCTCCTCCAGGGTACCTGAGCCTCTGGAGAATGTGGA  
 AGTCCCCTCTGGGCCCGAGCCCTCACAGACGGCCCCCGGAACACAGCAAGAGTCTAGCCTCCTATTT  
 GGCATGCCAAACAGTGCAGCCAGTATGAGGACTCAAGCTGGGCCACCTTATCACAGGGCAGCCCCCTCT  
 ATGGCTCCCCGGAGGACACAGATTCCTTCTGGAACCCCAACGCTTTCGAGACGGATTCCGATCTACCGGC  
 TGGATGGATGAGGGTACAGGACACCTCAGGGACCTACTACTGGCACATCCCAACAGGGACCACCCAGTGG  
 GAACCCCGAGGCCGGCCCTCCCCCTCACAGGGGAGCAGCCCCCAAGAAGAGTCCCAGCTCACCTGGACTG  
 GCTTTGCTACCAAGAAGGCTTTGAGGAAGGAGAGTTTTGGAAGGATGAACCCAGTGAGGAGGCCCAAT  
 GGAGTTGGGACTGAAGGACCCCGAGGAGGCGACATTGTCTTCCAGCTCAGAGCCTCAGCCAGAACCA  
 GTTCCCCAGGAGGAAGAGAAGCTGTCCCAACGGAATGCCAACCCAGGGATCAAGTGTTCGCTGTGCGT  
 CCCTAGGCTGGTAGAGATGACCGAGGAGGAGCTGGCCCCAGGACGCAGCAGTGTGGCAGTCAACAATTG  
 TATCCCGCAGCTCCTACCACAAAAACAATCTACATGATCCGATGGCTGGGGGCTGGGGAGAGGGAAAG  
 GATCTGCTGCTCCAGCTGGAGGACGAGACTCTAAAGTTGGTGGAGCCACAGAACCAGACGCTGCTGCATG  
 CACAGCCCATCGTCAGCATTCTGTGTGGGGCGTTGGGCGGGACAGTGAAGGGACTTTGCCTACGTAGC  
 TCGAGATAAGCTGACCCAGATGCTCAAGTGCCACGTGTTTCGCTGTGAGGCACCTGCCAAGAACATCGCC  
 ACCAGCCTGCATGAGATCTGCTCCAAGATCATGTCTGAACGGCGCAATGCTCGCTGCTTGGTCAATGGAC  
 TCTCCCTAGACCACTCTAAACTCGTGGATGTCCCTTCCAAAGTGAATCCCAGCACCAAGAATGAGCT  
 GGTGCAGAAGTTCCAAGTCTATTACCTGGGAAATGTGCCAGTTGCTAAACCTGTTGGGGTAGACGTGATT  
 AATGGGGCCCTGGAGTCAGTCTGTCTTCCAGTAGCCGTGAGCAGTGGACTCCAAGTCACGTCAGCGTGG  
 CCCCTGCCACCCTCACCATCTTGACACCAGCAGACAGAAGCGGTGCTGGGGGAGTGCCGGGTGCGGTTTCT  
 CTCTTCTCGGCTGTGGGCAGAGATGTGCACACATTTCGCGTTCATCATGGCTGCCGGCCAGCCTCCTTC  
 TGCTGTACATGTTTTGGTGTGAGCCCAATGCTGCCAGTCTCTCAGAGGCTGTGCAGGCTGCATGCATGC  
 TCCGCTACCAGAAGTGTCTGGATGCTCGCTCCCAGACCTCCACCTCCTGCCTCCCAGACCCCTGCGGA  
 GTCAGTTGCAAGACGTGTAGGTTGGACAGTCCGCAGGGGTGTTCAAGTGTGGGGTCCCTCAAGCCC  
 AAACGTCTGGGATCCCAGACCCCA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG222163 representing NM\_009685  
Red=Cloning site Green=Tags(s)

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MSVPSSLSQSAINANSHGGPALSFPLPLHAAHNQLLNAKLQATAVVPKDLRSAMGEGSVPEPGPANAKWL
KEGQNQLRRAATAHRDQNRNVTLLAEEASQEAEAPLGPGLMHLVSELELSAHNAANRGLHGSALIIIN
TQEQGPDEGEEKAAGEAEEDDEDEEEEEEDLSSPGLPELENVEVPSGPQALTDGPREHSKSASLLF
GMRNSAASDEDSSWATLSQGSPSYGSPEdTDFWNPNAFETDSDLPAGWMRVQDTSPTYWHIPTGTTQW
EPPGRASPSQSSPQEESQLTWTGFAHQEGFEEGEFWKDEPSEEAPMELGLKDPEEATLSFPAQSLSPEP
VPQEEELKSRNANPGIKCFAVRSLGWVEMTEELAPGRSSVAVNNCIRQLSYHKNNLHDPMAGGWGEGK
DLLLQLEDETLKLVQPQNQTLHLAQPIVIRVWGVGRDSGRDFAYVARDKLTQMLKCHVFRCEAPAKNIA
TSLHEICSKIMSERRNARCLVNLGLSLDHSKLVDPVFQVEFPAPKNELVQKFQVYYLGNVPVAKPVGVDVI
NGALESVLSSSSREQWTPSHVSVAPATLILHQQTEAVLGEICRVRFSLFVAVGRDVHTFAFIMAAGPASF
CCHMFWCEPNAASLSEAVQAACMLRYQKCLDARSQTSTSCLPAPPAESVARRVGTVRRGVQSLWGLKLP
KRLGSQTP
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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

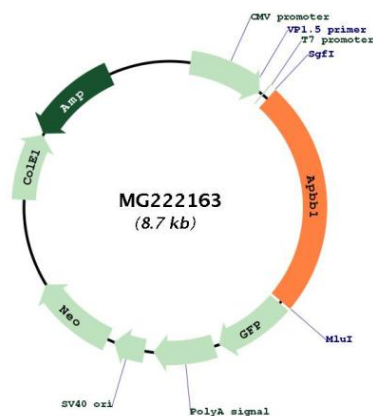
**Locus ID:** 11785

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

**Cytogenetics:** 7 55.9 cM

**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 MG222163