

## Product datasheet for **RG228577**

### APBB2 (NM\_004307) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	APBB2 (NM_004307) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	APBB2
Synonyms:	FE65L; FE65L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG228577 representing NM\_004307  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCAGAAGTACTTCCAGCTGACTCAGGTGTTGACACCTTGGCAGTGTTTATGGCCAGCAGCGGAATA  
 CAGACGTACAAAATCGGAACAGCCAGCCACACCACAAAACACCTTAACCTCCGATCCTCCACAAATGA  
 ACTGTTGAACGCTGAAATAAAACACACAGAAAACCAAGAACAGCACACCTCCCAAATGCAGGAAAAATAT  
 GCACTAACTAACATCCAGGCGGCCATGGCCTCTCGGATCCAGCTGCACAGCCCTGCTGGGAAATGGCT  
 CTGCCAACATCAAGCTGGTAAAAATGGGGAGAACCAGCTCCGTAAGGCTGCAGAGCAAGGGCAGCAGGA  
 CCCCACAAAACCTGAGCCCACTGCAGTCATCAACATAACTTCTGAGAAGTTAGAGGGTAAAGAGCCC  
 CACCCACAGGATTCCTCGAGCTGTGAGATTTTACCCTCCAGCCAGGAGAACTAAGAGCTTCCTAAATT  
 ACTATGCAGATCTGGAACCTCAGCCAGAGAAGTACAGCAGAACCGAGGCAATCACCATGGGACTGCGGA  
 AGAGAAATCCCAGCCAGTCCAGGGCCAGGCTCCACCATCATTGGGAATGGCGATTTGCTGCTGCAGAAA  
 CCAAACAGACCCAGTCCAGCCCTGAAGACGGCCAAGTAGCCACAGTGTATCCAGCCAGAAAACCAAGA  
 AGGATCATCCGAAAACAGGGGCCAAAACCGACTGTGCACTGCACCGGATCCAGAACCTGGACCCGAGCGA  
 TGAGGAGTCCAGCTGGACAACGTTGTCCAAGACAGTGCCTCACCCAGCTCCCGGATGAAAACAGCAGAT  
 ATATGGAGTGTCACTCATTTAGACTGATCCAGATTTGCCGCTGGCTGGAAAAGAGTCACTGACATTTG  
 CCGGGACCTATTATTGGCACATCCCAACAGGAACGACTCAGTGGGAACGGCCCTCTCCATCCCAGCAGA  
 TCTCCAGGGTTCTAGGAAAGGGTCACTTAGTTCTGTAACGCCATCTCCACCCAGAGAACGAGAAAACAG  
 CCATGGAGTGAATTTGCTGTTCTGAATGGGGAAAAGATTAATAGTGACATTTGGAAGGATTTGCATGCAG  
 CCACTGTTAACCAGGACCCAGTTTAAAAGAGTTGAAGGAGCAACCCCTACGCTATGCATCTTTGAAACT  
 CAGAAATGCCCCACACCCTGATGATGATGATTCTTGATGATCAACAGTGAACCCAGAACCAAGTGTGTTT  
 GCTGTGCGTTCTCTGGGATGGGTAGAGATGGCAGAAGAGGACCTCGCCCCGGTAAAAGTGTGTTGCGG  
 TCAACAACTGCATCAGGCAACTTCTACTGCAAAAATGACATCCGAGACACAGTCGGGATTTGGGGAGA  
 GGGGAAAGACATGTACCTGATCCTGGAGAATGACATGCTCAGCCTGGTGGACCCCATGGACCGCAGCGTG  
 CTGCACTCGCAGCCATCGTCAGCATCCGCGTGTGGGCGTGGCCCGGACAATGGCCGGGATTTTGCTT  
 ATGTAGCAAGAGATAAAGATAACAAGATTTTGAATGTCATGATTTTCGATGTGACACACCAGCAAAAGC  
 CATTGCCACAAGTCTCCACGAGATCTGCTCCAAGATTATGGCTGAACGGAAGAATGCCAAAGCGCTGGCC  
 TGCAGCTCCTTACAGGAAAGGGCAATGTGAACCTCGATGTCCTTTGCAAGTAGATTTTCCAACACCAA  
 AGACTGAGCTGGTCCAGAAGTCCACGTGCACTACTGGGCATGTTACCTGTAGACAAACAGTCCGGAAT  
 GGATATTTTGAACAGTGCATAGAAAATCTTATGACCTCATCCAACAAGGAGGACTGGCTGTCACTGAAC  
 ATGAACGTGGCTGATGCCACTGTGACTGTGCATCAGTGAAGAAGTGAAGAGGAAGTCTTAGTGGAATGTC  
 GTGTGCGATTCTGTCTTCATGGGTGTTGGGAAGGACGTCACACATTTGCCTTCATCATGGACACGGG  
 GAACCAGCGCTTTGAGTGCCACGTTTTCTGGTGGCAGCCTAATGCTGGTAACGTGTCTGAGGCGGTGCAG  
 GCCGCTGCATGTTACGATATCAGAAGTCTTGGTAGCCAGGCCGCTTCTCAGAAAGTTCGACCACCTC  
 CACCGCCAGCAGATTCAGTAACCAGAAGAGTACAACCAATGAAAACGAGGGTCTTATCCCTCATTGA  
 CACTTTGAAACAGAAACGCCCTGTACCGAAATGCCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG228577 representing NM\_004307  
Red=Cloning site Green=Tags(s)

```
MSEVLPADSGVDTLAVFMASSTGTTDVTNRNSPATPPNTLNLRSSHNELLNAEIKHTETKNSTPPKCRKKY
AL TNIQAAMGLSDPAAQPLLGNLSANIKLVKNGENQLRKAEEQGQDPNKNLSPTAVINITSEKLEKKEP
HPQDSSSCEILPSQPRRTKSFNLNYYADLETSARELEQNRGNHHGTAEKESQPVQGGASTIIGNDLLLLQK
PNRPQSSPEDGGQVATVSSSPETKKDHPKTGAKTDCALHRIQNLAPSDEESSWTTLSQDSASPSSPDETAD
IWSDFAVLNGGKINSIDIWKDLHAATVNPDP SLKEFEGATLRYASLKL RNAPHPDDDDSCSINSDPKACF
AVRSLGWVEMAEEDLAPGKSSVAVNNCIRQLSYCKNDIRDVTGIVGEGKDMYLILENDMLSLVDPMDRSV
LHSQPIVSIIRVWGVGRDNGRDFAYVARDKDRILKCHVFRCDTPAKAIATSLHEICSKIMAERKNAKALA
CSSLQERANVNLDPVLPQVDFPTPKTEL VQKFHVQYLGMLPVDKPVGMDILNSAIENLMTSSNKEDWLSVN
MNVADATVTVISEKNEEEVLVECRVRF L SFGMGVKDVHTFAFIMDTGNQRFECHVFWCEPNAGNVSEAVQ
AACMLRYQKCLVARPPSQKVRPPPPPADSVTRRVTTNVKRGVLSLIDTLKQKRPVTEMP
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004307

**ORF Size:** 2277 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\\_004307.2](#)

**RefSeq Size:** 9004 bp

**RefSeq ORF:** 2280 bp

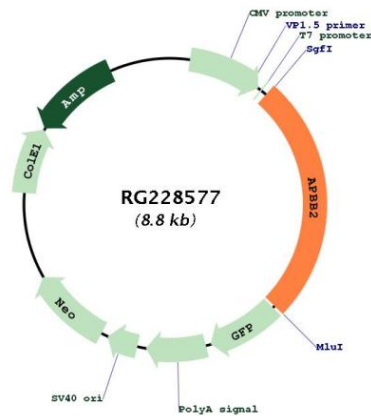
**Locus ID:** 323

**Cytogenetics:** 4p14-p13

**Protein Families:** Transcription Factors

**Gene Summary:** The protein encoded by this gene interacts with the cytoplasmic domains of amyloid beta (A4) precursor protein and amyloid beta (A4) precursor-like protein 2. This protein contains two phosphotyrosine binding (PTB) domains, which are thought to function in signal transduction. Polymorphisms in this gene have been associated with Alzheimer's disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]

### Product images:



Circular map for RG228577