

# **Product datasheet for RC232326**

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OriGene Technologies, Inc.

## FE65 (APBB1) (NM\_001257324) Human Tagged ORF Clone

#### **Product data:**

E. coli Selection:

**Product Type:** Expression Plasmids

**Product Name:** FE65 (APBB1) (NM\_001257324) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: APBB1

Synonyms: FE65; MGC:9072; RIR

**Vector:** pCMV6-Entry (PS100001)

Cell Selection: Neomycin

ORF Nucleotide >RC232326 representing NM\_001257324
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

Kanamycin (25 ug/mL)

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA





Protein Sequence: >RC232326 representing NM\_001257324

Red=Cloning site Green=Tags(s)

MRVQDTSGTYYWHIPTGTTQWEPPGRASPSQGSSPQEESQLTWTGFAHGEGFEDGEFWKDEPSDEAPMEL GLKEPEEGTLTFPAQSLSPEPLPQEEEKLPPRNTNPGIKCFAVRSLGWVEMTEEELAPGRSSVAVNNCIR QLSYHKNNLHDPMSGGWGEGKDLLLQLEDETLKLVEPQSQALLHAQPIISIRVWGVGRDSGRERDFAYVA RDKLTQMLKCHVFRCEAPAKNIATSLHEICSKARPPPLPGLVATFALQGCGWGH

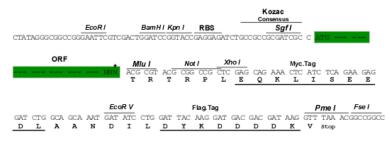
#### **TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:** 

Sgfl-Mlul

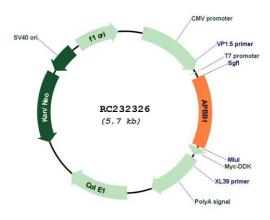
**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

## Plasmid Map:



**ACCN:** NM\_001257324

ORF Size: 792 bp

#### FE65 (APBB1) (NM\_001257324) Human Tagged ORF Clone - RC232326

**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: <u>NM 001257324.1</u>, <u>NP 001244253.1</u>

RefSeq Size: 1422 bp
RefSeq ORF: 794 bp
Locus ID: 322

Cytogenetics: 11p15.4

Protein Families: Transcription Factors
Protein Pathways: Alzheimer's disease

**MW:** 29.7 kDa

**Gene Summary:** The protein encoded by this gene is a member of the Fe65 protein family. It is an adaptor

protein localized in the nucleus. It interacts with the Alzheimer's disease amyloid precursor protein (APP), transcription factor CP2/LSF/LBP1 and the low-density lipoprotein receptor-related protein. APP functions as a cytosolic anchoring site that can prevent the gene product's nuclear translocation. This encoded protein could play an important role in the pathogenesis of Alzheimer's disease. It is thought to regulate transcription. Also it is observed to block cell cycle progression by downregulating thymidylate synthase expression. Multiple alternatively spliced transcript variants encoding different isoforms have been described for

this gene. [provided by RefSeq, Mar 2012]