

## Product datasheet for **RC232841**

### FE65 (APBB1) (NM\_001257323) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FE65 (APBB1) (NM_001257323) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	APBB1
Synonyms:	FE65; MGC:9072; RIR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC232841 representing NM\_001257323  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCGCATGTTCTCCAGGACTTTTTCTGGCCATTATCCTGCAGGACAGCAGCGCAGATTCCTTCT  
 GGAACCCCAACGCCTTCGAGACGGATTCCGACCTGCCGGCTGGATGGATGAGGGTCCAGGACACCTCAGG  
 GACCTATTACTGGCACATCCCAACAGGGACCACCCAGTGGGAACCCCGGCCGGCCCTCCCCCTCACAG  
 GGGAGCAGCCCCAAGAGGAGTCCAGCTCACCTGGACAGGTTTTGCTCATGGAGAAGGCTTTGAGGATG  
 GAGAATTTTGAAGGATGAACCCAGTGTAGAGGCCCAATGGAGCTGGGACTGAAGGAACCTGAGGAGGG  
 GACGTTGACCTTCCAGCTCAGAGCCTCAGCCAGAGCCGTTGCCCAAGAGGAGGAGAAGCTTCCCCCA  
 CGGAATACCAACCCAGGGATCAAGTGTTCGCCGTGCGCTCCCTAGGCTGGGTAGAGATGACCGAGGAGG  
 AGCTGGCCCTGGACGCAGCAGTGTGGCAGTCAACAATTGCATCCGTGAGCTCTTACCACAAAAACAA  
 CCTGCATGACCCATGTCTGGGGCTGGGGGAAGGAAAGGATCTGCTACTGCAGCTGGAGGATGAGACA  
 CTAAGGCTAGTGGAGCCACAGAGCCAGGCACTGCTGCACGCCAACCCATCATCAGCATCCGCGTGTGGG  
 GCGTGGGCGGGACAGTGAAGGACTTTGCCTACGTAGCTCGTGATAAGCTGACCCAGATGCTCAAGTG  
 CCACGTGTTTTCGCTGTGAGGCACCTGCCAAGAATCGCCACCAGCCTGCATGAGATCTGCTCTAAGATC  
 ATGGCCGAACGGCGTAATGCCCGCTGCTTGGTAAATGGACTCTCCCTGGACCACTCTAAACTTGTGGATG  
 TCCCTTTCCAAGTGAATTTCCAGCGCTAAGAATGAGTTGGTCCAGAAGTTCCAAGTCTATTACCTGGG  
 GAATGTACCTGTTGCTAAACCTGTTGGGTAGATGTGATTAATGGGGCCCTCGAGTCAGTCTGTCTCC  
 AGCAGCCGTGAACAATGGACCCCAAGTCATGTCAGTGTGGCCCTGTACCCTCACCATCTGCACCAGC  
 AGACAGGCGCAGTGTGGGAGAGTGTGGGTGCGTTTCTCCTCCTTCTGGCCGTGGGAGAGATGTCCA  
 CACGTTTTGCATTATCATGGCTGCCGGCCAGCCTCCTTCTGCTGCCACATGTTCTGGTGGCAGCCCAAT  
 GCTGCCAGCCTCTCAGAGGCTGTGCAGGCTGCGTGCATGCTTCGCTACCAGAAGTGTCTGGATGCCCGTT  
 CCCAGGCTCCACCTCCTGCCTCCAGCACCCCTGCTGAGTCTGTGGCAGGCGGTGAGGGTGGACTGT  
 CCGCAGGGGTGTTGAGTGTGGGGCTCCCTGAAGCCCAAACGGCTGGGGGCCATACCCCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC232841 representing NM\_001257323  
 Red=Cloning site Green=Tags(s)

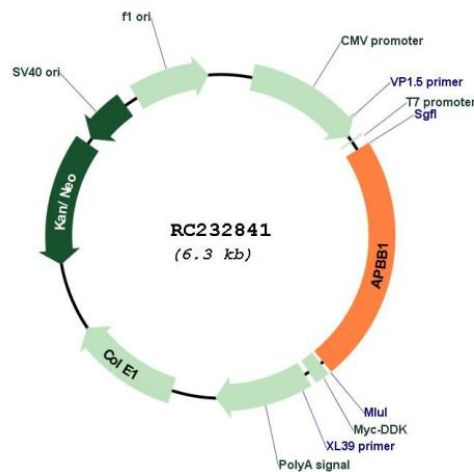
MSAMFSQDFFLAIIQDSSADSFWNPNAFETDSDLPAGWMRVQDTSGTYWHIPTGTTQWEPPGRASPSQ  
 GSSPQEESQLTWTGFAHGEGFEDGEFWKDEPSDEAPMELGLKEPEEGTLTFPAQSLSPEPLPQEEELPP  
 RNTNPGIKCFVAVRSLGWVEMTEEELAPGRSSVAVNNCIRQLSYHKNNLHDPMSGGWGEGKDLLLQLEDET  
 LKLVEPQSQALLHAQPIISIRVWVGRDSGRDFAYVARDKLTQMLKCHVFRCEAPAKNIATSLHEICSKI  
 MAERRNARCLVNLGLSLDHSKLVDPVFQVEFPAPKNELVQKFQVYVYLGPNVPAKPVGVVDVINGALESVLS  
 SSREQWTPSHVSVAPATLTIHQQTAVLGEVRVFLSFLAVGRDVHTFAFIMAAGPASFCCHMFWCEPN  
 AASLSEAVQAACMLRYQKCLDARSQASTSCLPAPPAESVARRVGVTVRRGVQSLWGLKPKRLGAHTP

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001257323

**ORF Size:** 1464 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001257323.2</a> , <a href="#">NP_001244252.1</a>
<b>RefSeq Size:</b>	2020 bp
<b>RefSeq ORF:</b>	1467 bp
<b>Locus ID:</b>	322
<b>UniProt ID:</b>	<a href="#">O00213</a>
<b>Cytogenetics:</b>	11p15.4
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	Alzheimer's disease
<b>MW:</b>	54.4 kDa
<b>Gene Summary:</b>	<p>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]</p>