

Product datasheet for **RC202003**

FE65 (APBB1) (NM_001164) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FE65 (APBB1) (NM_001164) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FE65
Synonyms:	FE65; MGC:9072; RIR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC202003 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTTCATCATCACTGAGCCAGTCGGCCATTAATGCCAACAGCCACGGAGGCCCGCACTGAGCC
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 CAAGGACCTGCGCAGCGCCATGGGGGAGGGTGGTGGGCCTGAGCCAGGCCCTGCCAATGCCAAGTGCTA
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 CCTTGGCGGAGGAGGCCAGCCAGGAGCCTGAGATGGCACCCCTGGGCCCAAAGGCTGATACACCTGTA
 CTCTGAGCTGGAGCTCTCAGCTCACAACGCAGCCAACCGAGGCCACGAGGACCTGGCCTGATCATCAGC
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 GGCCCTCCAGGCCCAAGCCCTTACAGATGGCCCCGGGAACACAGCAAGAGTGCCAGCCTCCTGTTT
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 TTGCCCAAGAGGAGGAGAAGCTTCCCCACGGAATACCAACCCAGGGATCAAGTGTTCGCGCTGCGCT
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 CCCTGCTACCCTACCATCTTGACACCAGCAGACAGAGGCAAGTGTGGGAGAGTGTGGGTGCGTTTCCT
 CTCTTCTGGCCGTGGGCAGAGATGTCCACACGTTTGCATTATCATGGCTGCCGGCCAGCCTCCTTC
 TGCTGCCACATGTTCTGGTGCAGGCCAATGCTGCCAGCCTCTCAGAGGCTGTGCAGGCTGCGTGATGC
 TTCGCTACCAGAAGTGTCTGGATGCCCGTTCAGGCTCCACCTCCTGCCTCCAGCACCCCTGCTGA
 GTCTGTGGCACGGCGTAGGGTGGACTGTCCGCAGGGGTGTTCAAGTCGCTGTGGGGCTCCCTGAAGCCC
 AAACGGCTGGGGGCCATACCCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202003 protein sequence
Red=Cloning site Green=Tags(s)

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MSVPSSLQSAINANSHGGPALSPLPLHAAHNQLLNAKLQATAVGPKDLRSAMGEGGGPEPGPANAKWL
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DLLLQLEDETLKLVLPQSQALLHAQPIISIRVWGVGRDSGRDFAYVARDKLTQMLKCHVFRCEAPAKNIA
TSLHEICSKIMAERRNARCLVNLGLSLDHSKLVDPVFQVEFPAPKNELVQKQVYYLGNVPVAKPVGVDVI
NGALESVLSSSSREQWTPSHVSVAPATLILHQQTEAVLGEICRVRFSLFVAVGRDVHTFAFIMAAGPASF
CCHMFWCEPNAASLSEAVQAACMLRYQKCLDARSQASTSCLPAPPAESVARRVGTVRRGVQSLWGLKLP
KRLGAHTP
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6140_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001164

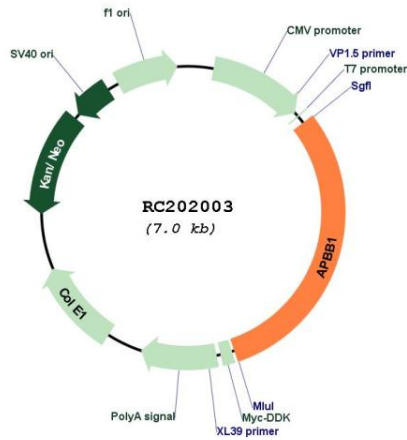
ORF Size: 2124 bp

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](#)

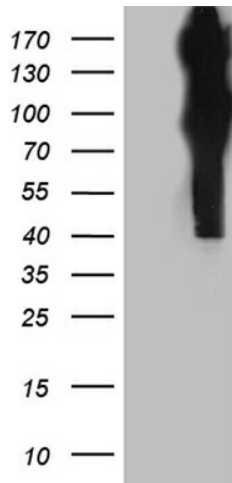
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001164.5</u>
RefSeq Size:	2699 bp
RefSeq ORF:	2133 bp
Locus ID:	322
UniProt ID:	<u>O00213</u>
Cytogenetics:	11p15.4
Domains:	WW, PID
Protein Families:	Transcription Factors
Protein Pathways:	Alzheimer's disease
MW:	77 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]

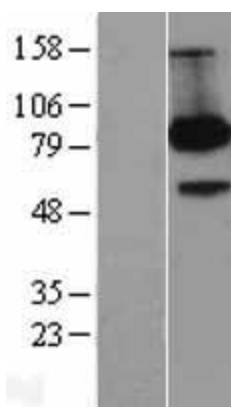
Product images:



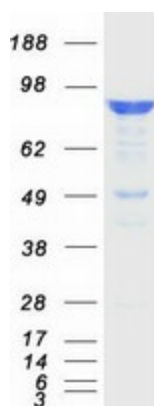
Circular map for RC202003



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY APBB1 (Cat# RC202003, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-APBB1 (1:2000) (Cat# [TA811159]). Positive lysates [LY400467] (100ug) and [LC400467] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400467]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202003 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified APBB1 protein (Cat# [TP302003]). The protein was produced from HEK293T cells transfected with APBB1 cDNA clone (Cat# RC202003) using MegaTran 2.0 (Cat# [TT210002]).