

Product datasheet for **RC215214**

FE65 (APBB1) (NM_145689) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FE65 (APBB1) (NM_145689) 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:

>RC215214 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGTTCATCATCACTGAGCCAGTCGGCCATTAATGCCAACAGCCACGGAGGCCCGCACTGAGCC
TACCCCTGCCTCTGCACGCTGCCACAACCAGCTGCTCAACGCCAAGCTGCAGGCCACAGCTGTGGGACC
CAAGGACCTGCGCAGCGCCATGGGGAGGGTGGTGGGCCTGAGCCAGGCCCTGCCAATGCCAAGTGCTA
AAAGAGGGCCAGAACCAGCTCCGGCGGGCCGCCACGGCCACCGTGACCAGAATCGCAATGTGACCTTGA
CCTTGGCGGAGGAGGCCAGCCAGGAGCCTGAGATGGCACCCCTGGGCCCAAAGGCTGATACACCTGTA
CTCTGAGCTGGAGCTCTCAGCTCACAACGCAGCCAACCGAGGCCACGAGGACCTGGCCTGATCATCAGC
ACTCAAGAGCAGGGCCAGATGAGGGAGAGGAGAAGGCGCCGGGGAGGCCGAGGAGGAGGAGGATG
ATGATGATGAAGAGGAGGAGGAGGACTTATCTTCTCCCCAGGGTGCCTGAGCCCCTGGAGAGTGTGA
GGCCCCCTCCAGGCCCAAGCCCTTACAGATGGCCCCCGGAACACAGCAAGAGTGCCAGCCTCCTGTTT
GGCATGCGGAACAGTGACGCCAGTGATGAGGACTCAAGCTGGGCTACCTTATCCCAGGGCAGCCCCCTCT
ATGGCTCCCCAGAGGACACAGATTCTTCTGGAACCCCAACGCCTTCGAGACGGATTCCGACCTGCCGGC
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GTTTTGCTCATGGAGAAGGCTTTGAGGATGGAGAATTTTGAAGGATGAACCCAGTGATGAGGCCCAAT
GGAGCTGGGACTGAAGGAACCTGAGGAGGGGACGTTGACCTTCCAGCTCAGAGCCTCAGCCAGAGCCG
TTGCCCAAGAGGAGGAGAAGCTTCCCCACGGAATACCAACCCAGGGATCAAGTGTTCGCGCTGCGCT
CATCCGTCAGCTCTTACCACAAAAACAACCTGCATGACCCCATGTCTGGGGGCTGGGGGAAGGAAAG
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CCCAACCCATCATCAGCATCCGCGTGTGGGGCGTGGGGCGGACAGTGAAGGGACTTTGCCTACGTAGC
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GGTCCAGAAGTTCCAAGTCTATTACCTGGGAATGTACCTGTTGCTAAACCTGTTGGGTAGATGTGATT
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TGCTGCCACATGTTCTGGTGCAGGCCAATGCTGCCAGCCTCTCAGAGGCTGTGCAGGCTGCGTGCATGC
TTGCTACCAGAAGTGTCTGGATGCCCGTTCCAGGCCTCCACCTCCTGCCTCCAGCACCCCTGCTGA
GTCTGTGGCAGGGCGTGTAGGGTGGACTGTCCGCAGGGGTGTTCAAGTCGCTGTGGGGCTCCCTGAAGCC
AAACGGCTGGGGGCCATACCCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC215214 protein sequence
 Red=Cloning site Green=Tags(s)

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MSVPSSLQSAINANSHGGPALSPLPLHAAHNQLLNAKLQATAVGPKDLRSAMGEGGGPEPGPANAKWL
KEGQNQLRRAATAHRDQNRNVTLLAEEASQEPEMAPLGPGLIHLYSELELSAHNAANRGLRGPGLIIS
TQEQGPDEGEEKAAGEAEEDDDDEEEEDLSSPGLPEPLESVEAPPRQALTDGPREHKSASLLF
GMRNSAASDEDSSWATLSQGSPPSYGSPEDTDSFVWPNFAFETSDLPAGWMRVQDTSGTYYWHIPTGTTQW
EPPGRASPSQGSPPQEESQLTWTGFHGEFEDGEFVKDEPSDEAPMELGLKEPEEGLTFPAQSLSEPEP
LPQEEELPPRNTNPGIKCFVRSLGWVEMTEELAPGRSSVAVNNCIRQLSYHKNLHDPMSGGWGEGK
DLLLQLEDETLKLVLPQSQALLHAQPIISIRVWGVGRDSGRDFAYVARDKLTQMLKCHVFRCEAPAKNIA
TSLHEICSKIMAERRNARCLVNLGLSLDHSKLVDPVFQVEFPAPKNELVQKQVYYLGNVPVAKPVGVQVVI
NGALESVLSSSSREQWTPSHVSVAPATLILHQQTEAVLGEICRVRFSLFVAVGRDVHTFAFIMAAGPASF
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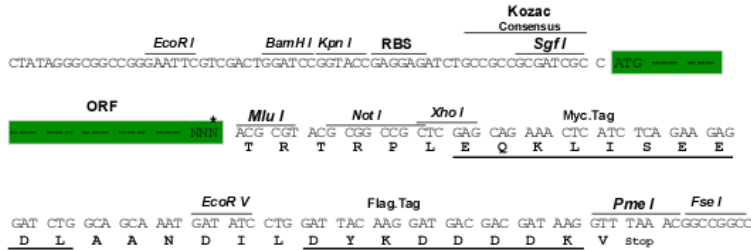
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6307_f08.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_145689

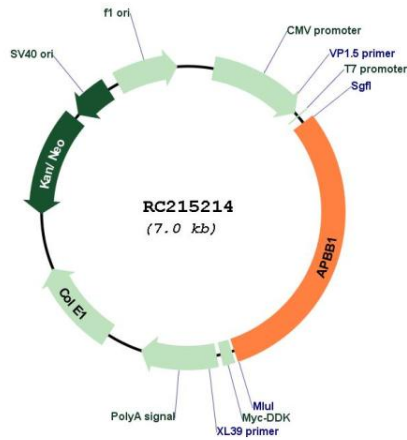
ORF Size: 2124 bp

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](#)

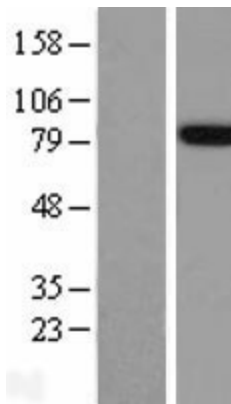
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
RefSeq:	NM_145689.3
RefSeq Size:	2693 bp
RefSeq ORF:	2127 bp
Locus ID:	322
UniProt ID:	O00213
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 RC215214



Western blot validation of overexpression lysate (Cat# [LY407894]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215214 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified APBB1 protein (Cat# [TP315214]). The protein was produced from HEK293T cells transfected with APBB1 cDNA clone (Cat# RC215214) using MegaTran 2.0 (Cat# [TT210002]).