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# Product datasheet for RG202003

## 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:** | TurboGFP |
| **Symbol:** | FE65 |
| **Synonyms:** | FE65; MGC:9072; RIR |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

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**ORF Nucleotide Sequence:**

>RG202003 representing NM_001164
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGTTCCATCATCACTGAGCCAGTCGGCCATTAATGCCAACAGCCACGGAGGCCCCGCACTGAGCC
TACCCCTGCCTCTGCACGCTGCCCACAACCAGCTGCTCAACGCCAAGCTGCAGGCCACAGCTGTGGGACC
CAAGGACCTGCGCAGCGCCATGGGGGAGGGTGGTGGGCCTGAGCCAGGCCCTGCCAATGCCAAGTGGCTA
AAAGAGGGCCAGAACCAGCTCCGGCGGGCCGCCACGGCCCACCGTGACCAGAATCGCAATGTGACCTTGA
CCTTGGCGGAGGAGGCCAGCCAGGAGCCTGAGATGGCACCCTTGGGCCCCAAAGGCCTGATACACCTGTA
CTCTGAGCTGGAGCTCTCAGCTCACAACGCAGCCAACCGAGGCCTACGAGGACCTGGCCTGATCATCAGC
ACTCAAGAGCAGGGGCCAGATGAGGGAGAGGAGAAGGCGGCCGGGGAGGCCGAGGAGGAGGAGGAGGATG
ATGATGATGAAGAGGAGGAGGAGGACTTATCTTCTCCCCCAGGGCTGCCTGAGCCCCTGGAGAGTGTGGA
GGCCCCTCCCAGGCCCCAAGCCCTTACAGATGGCCCCCGGGAACACAGCAAGAGTGCCAGCCTCCTGTTT
GGCATGCGGAACAGTGCAGCCAGTGATGAGGACTCAAGCTGGGCTACCTTATCCCAGGGCAGCCCCTCCT
ATGGCTCCCCAGAGGACACAGATTCCTTCTGGAACCCCAACGCCTTCGAGACGGATTCCGACCTGCCGGC
TGGATGGATGAGGGTCCAGGACACCTCAGGGACCTATTACTGGCACATCCCAACAGGGACCACCCAGTGG
GAACCCCCCGGCCGGGCCTCCCCCTCACAGGGGAGCAGCCCCCAAGAGGAGTCCCAGCTCACCTGGACAG
GTTTTGCTCATGGAGAAGGCTTTGAGGATGGAGAATTTTGGAAGGATGAACCCAGTGATGAGGCCCCAAT
GGAGCTGGGACTGAAGGAACCTGAGGAGGGGACGTTGACCTTCCCAGCTCAGAGCCTCAGCCCAGAGCCG
TTGCCCCAAGAGGAGGAGAAGCTTCCCCCACGGAATACCAACCCAGGGATCAAGTGTTTCGCCGTGCGCT
CCCTAGGCTGGGTAGAGATGACCGAGGAGGAGCTGGCCCCTGGACGCAGCAGTGTGGCAGTCAACAATTG
CATCCGTCAGCTCTCTTACCACAAAAACAACCTGCATGACCCCATGTCTGGGGGCTGGGGGGAAGGAAAG
GATCTGCTACTGCAGCTGGAGGATGAGACACTAAAGCTAGTGGAGCCACAGAGCCAGGCACTGCTGCACG
CCCAACCCATCATCAGCATCCGCGTGTGGGGCGTCGGGCGGGACAGTGGAAGGGACTTTGCCTACGTAGC
TCGTGATAAGCTGACCCAGATGCTCAAGTGCCACGTGTTTCGCTGTGAGGCACCTGCCAAGAACATCGCC
ACCAGCCTGCATGAGATCTGCTCTAAGATCATGGCCGAACGGCGTAATGCCCGCTGCTTGGTAAATGGAC
TCTCCCTGGACCACTCTAAACTTGTGGATGTCCCTTTCCAAGTGGAATTCCCAGCGCCTAAGAATGAGTT
GGTCCAGAAGTTCCAAGTCTATTACCTGGGGAATGTACCTGTTGCTAAACCTGTTGGGGTAGATGTGATT
AATGGGGCCCTCGAGTCAGTCCTGTCCTCCAGCAGCCGTGAACAATGGACCCCAAGTCATGTCAGTGTGG
CCCCTGCTACCCTCACCATCTTGCACCAGCAGACAGAGGCAGTGCTGGGAGAGTGTCGGGTGCGTTTCCT
CTCCTTCCTGGCCGTGGGCAGAGATGTCCACACGTTTGCATTCATCATGGCTGCCGGCCCAGCCTCCTTC
TGCTGCCACATGTTCTGGTGCGAGCCCAATGCTGCCAGCCTCTCAGAGGCTGTGCAGGCTGCGTGCATGC
TTCGCTACCAGAAGTGTCTGGATGCCCGTTCCCAGGCCTCCACCTCCTGCCTCCCAGCACCCCCTGCTGA
GTCTGTGGCACGGCGTGTAGGGTGGACTGTCCGCAGGGGTGTTCAGTCGCTGTGGGGCTCCCTGAAGCCC
AAACGGCTGGGGGCCCATACCCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

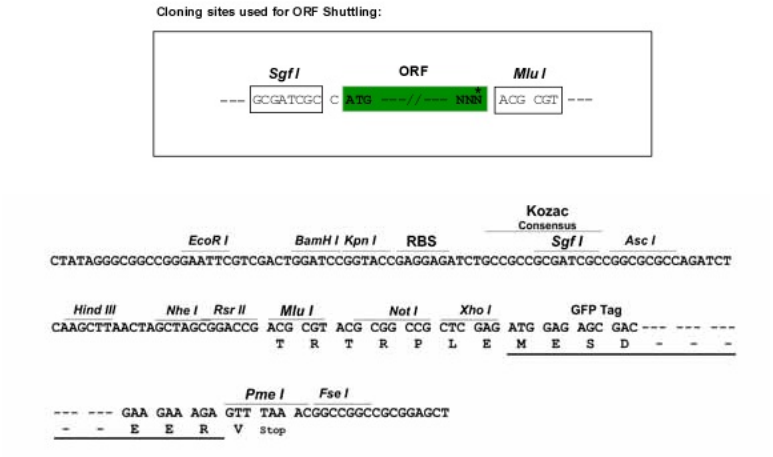
>RG202003 representing NM_001164
Red=Cloning site Green=Tags(s)

MSVPSSLSQSAINANSHGGPALSLPLPLHAAHNQLLNAKLQATAVGPKDLRSAMGEGGGPEPGPANAKWL
KEGQNQLRRAATAHRDQNRNVTLTLAEEASQEPEMAPLGPKGLIHLYSELELSAHNAANRGLRGPGLIIS
TQEQGPDEGEEKAAGEAEEEEEDDDDEEEEEDLSSPPGLPEPLESVEAPPRPQALTDGPREHSKSASLLF
GMRNSAASDEDSSWATLSQGSPSYGSPEDTDSFWNPNAFETDSDLPAGWMRVQDTSGTYYWHIPTGTTQW
EPPGRASPSQGSSPQEESQLTWTGFAHGEGFEDGEFWKDEPSDEAPMELGLKEPEEGTLTFPAQSLSPEP
LPQEEEKLPPRNTNPGIKCFAVRSLGWVEMTEEELAPGRSSVAVNNCIRQLSYHKNNLHDPMSGGWGEGK
DLLLQLEDETLKLVEPQSQALLHAQPIISIRVWGVGRDSGRDFAYVARDKLTQMLKCHVFRCEAPAKNIA
TSLHEICSKIMAERRNARCLVNGLSLDHSKLVDVPFQVEFPAPKNELVQKFQVYYLGNVPVAKPVGVDVI
NGALESVLSSSSREQWTPSHVSVAPATLTILHQQTEAVLGECRVRFLSFLAVGRDVHTFAFIMAAGPASF
CCHMFWCEPNAASLSEAVQAACMLRYQKCLDARSQASTSCLPAPPAESVARRVGWTVRRGVQSLWGSLKP
KRLGAHTP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_001164

**ORF Size:** 2124 bp

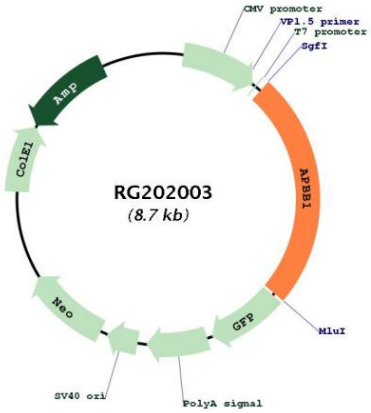
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001164.2, NP_001155.1 |
| **RefSeq Size:** | 2653 bp |
| **RefSeq ORF:** | 2133 bp |
| **Locus ID:** | 322 |
| **UniProt ID:** | O00213 |
| **Cytogenetics:** | 11p15.4 |
| **Domains:** | WW, PID |
| **Protein Families:** | Transcription Factors |
| **Protein Pathways:** | Alzheimer's disease |
| **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 RG202003