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Product datasheet for RC232763

FE65 (APBB1) (NM_001257320) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FE65 (APBB1) (NM_001257320) 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:

>RC232763 representing NM_001257320
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGGTCCAGGACACCTCAGGGACCTATTACTGGCACATCCCAACAGGGACCACCCAGTGGGAACCCC
CCGGCCGGGCCTCCCCCTCACAGGGGAGCAGCCCCCAAGAGGAGTCCCAGCTCACCTGGACAGGTTTTGC
TCATGGAGAAGGCTTTGAGGATGGAGAATTTTGGAAGGATGAACCCAGTGATGAGGCCCCAATGGAGCTG
GGACTGAAGGAACCTGAGGAGGGGACGTTGACCTTCCCAGCTCAGAGCCTCAGCCCAGAGCCGTTGCCCC
AAGAGGAGGAGAAGCTTCCCCCACGGAATACCAACCCAGGGATCAAGTGTTTCGCCGTGCGCTCCCTAGG
CTGGGTAGAGATGACCGAGGAGGAGCTGGCCCCTGGACGCAGCAGTGTGGCAGTCAACAATTGCATCCGT
CAGCTCTCTTACCACAAAAACAACCTGCATGACCCCATGTCTGGGGGCTGGGGGGAAGGAAAGGATCTGC
TACTGCAGCTGGAGGATGAGACACTAAAGCTAGTGGAGCCACAGAGCCAGGCACTGCTGCACGCCCAACC
CATCATCAGCATCCGCGTGTGGGGCGTCGGGCGGGACAGTGGAAGAGAGAGGGACTTTGCCTACGTAGCT
CGTGATAAGCTGACCCAGATGCTCAAGTGCCACGTGTTTCGCTGTGAGGCACCTGCCAAGAACATCGCCA
CCAGCCTGCATGAGATCTGCTCTAAGATCATGGCCGAACGGCGTAATGCCCGCTGCTTGGTAAATGGACT
CTCCCTGGACCACTCTAAACTTGTGGATGTCCCTTTCCAAGTGGAATTCCCAGCGCCTAAGAATGAGTTG
GTCCAGAAGTTCCAAGTCTATTACCTGGGGAATGTACCTGTTGCTAAACCTGTTGGGGTAGATGTGATTA
ATGGGGCCCTCGAGTCAGTCCTGTCCTCCAGCAGCCGTGAACAATGGACCCCAAGTCATGTCAGTGTGGC
CCCTGCTACCCTCACCATCTTGCACCAGCAGACAGAGGCAGTGCTGGGAGAGTGTCGGGTGCGTTTCCTC
TCCTTCCTGGCCGTGGGCAGAGATGTCCACACGTTTGCATTCATCATGGCTGCCGGCCCAGCCTCCTTCT
GCTGCCACATGTTCTGGTGCGAGCCCAATGCTGCCAGCCTCTCAGAGGCTGTGCAGGCTGCGTGCATGCT
TCGCTACCAGAAGTGTCTGGATGCCCGTTCCCAGGCCTCCACCTCCTGCCTCCCAGCACCCCCTGCTGAG
TCTGTGGCACGGCGTGTAGGGTGGACTGTCCGCAGGGGTGTTCAGTCGCTGTGGGGCTCCCTGAAGCCCA
AACGGCTGGGGGCCCATACCCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

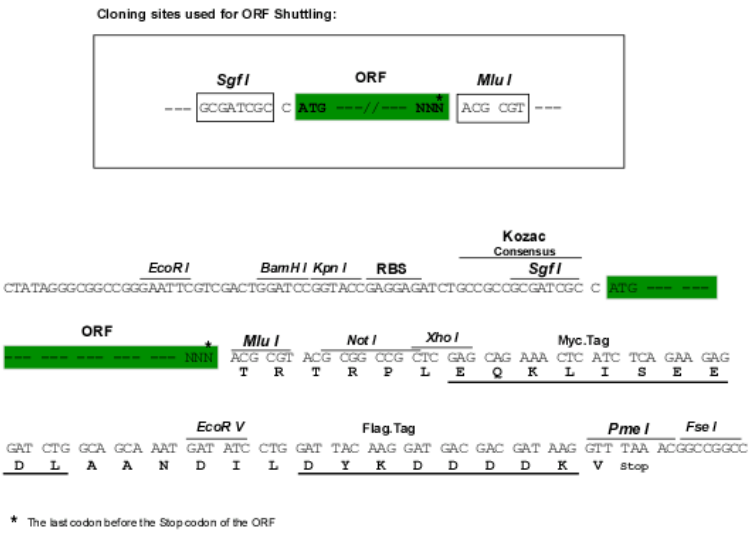
>RC232763 representing NM_001257320
Red=Cloning site Green=Tags(s)

MRVQDTSGTYYWHIPTGTTQWEPPGRASPSQGSSPQEESQLTWTGFAHGEGFEDGEFWKDEPSDEAPMEL
GLKEPEEGTLTFPAQSLSPEPLPQEEEKLPPRNTNPGIKCFAVRSLGWVEMTEEELAPGRSSVAVNNCIR
QLSYHKNNLHDPMSGGWGEGKDLLLQLEDETLKLVEPQSQALLHAQPIISIRVWGVGRDSGRERDFAYVA
RDKLTQMLKCHVFRCEAPAKNIATSLHEICSKIMAERRNARCLVNGLSLDHSKLVDVPFQVEFPAPKNEL
VQKFQVYYLGNVPVAKPVGVDVINGALESVLSSSSREQWTPSHVSVAPATLTILHQQTEAVLGECRVRFL
SFLAVGRDVHTFAFIMAAGPASFCCHMFWCEPNAASLSEAVQAACMLRYQKCLDARSQASTSCLPAPPAE
SVARRVGWTVRRGVQSLWGSLKPKRLGAHTP

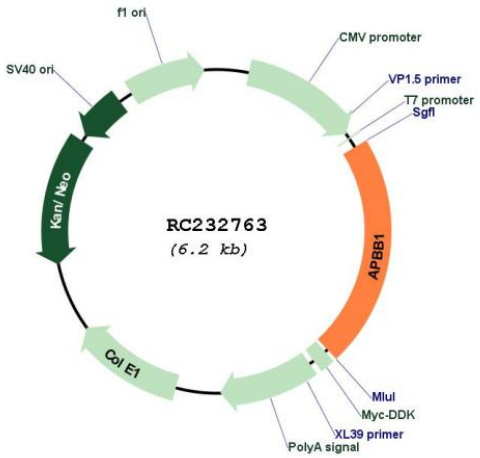
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001257320

ORF Size: 1353 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. 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_001257320.2, NP_001244249.1
RefSeq Size:	2114 bp
RefSeq ORF:	1356 bp
Locus ID:	322
UniProt ID:	O00213
Cytogenetics:	11p15.4
Protein Families:	Transcription Factors
Protein Pathways:	Alzheimer's disease
MW:	50.3 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]