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Product datasheet for MG206000

Apbb1 (BC048395) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apbb1 (BC048395) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Apbb1
Synonyms:	Fe65; Rir
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG206000 representing BC048395
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTTGGGACTGAAGGACCCCGAGGAGGCGACATTGTCCTTCCCAGCTCAGAGCCTCAGCCCAGAAC
CAGTTCCCCAGGAGGAAGAGAAGCTGTCCCAACGGAATGCCAACCCAGGGATCAAGTGTTTCGCTGTGCG
CTCCCTAGGCTGGGTAGAGATGACCGAGGAGGAGCTGGCCCCAGGACGCAGCAGTGTGGCAGTCAACAAT
TGTATCCGCCAGCTCTCCTACCACAAAAACAATCTACATGATCCGATGGCTGGGGGCTGGGGAGAGGGAA
AGGATCTGCTGCTCCAGCTGGAGGACGAGACTCTAAAGTTGGTGGAGCCACAGAACCAGACGCTGCTGCA
TGCACAGCCCATCGTCAGCATTCGTGTGTGGGGCGTTGGGCGGGACAGTGGAAGAGAGAGGGACTTTGCC
TACGTAGCTCGAGATAAGCTGACCCAGATGCTCAAGTGCCACGTGTTTCGCTGTGAGGCACCTGCCAAGA
ACATCGCCACCAGCCTGCATGAGATCTGCTCCAAGATCATGTCTGAACGGCGCAATGCTCGCTGCTTGGT
CAATGGACTCTCCCTAGACCACTCTAAACTCGTGGATGTCCCTTTCCAAGTGGAATTCCCAGCACCAAAG
AATGAGCTGGTGCAGAAGTTCCAAGTCTATTACCTGGGAAATGTGCCAGTTGCTAAACCTGTTGGGGTAG
ACGTGATTAATGGGGCCCTGGAGTCAGTCCTGTCTTCCAGTAGCCGTGAGCAGTGGACTCCAAGTCACGT
CAGCGTGGCCCCTGCCACCCTCACCATCTTGCACCAGCAGACAGAAGCGGTGCTGGGGGAGTGCCGGGTG
CGGTTTCTCTCCTTCCTGGCTGTGGGCAGAGATGTGCACACATTCGCGTTCATCATGGCTGCCGGCCCAG
CCTCCTTCTGCTGTCACATGTTTTGGTGTGAGCCCAATGCTGCCAGTCTCTCAGAGGCTGTGCAGGCTGC
ATGCATGCTCCGCTACCAGAAGTGTCTGGATGCTCGCTCCCAGACCTCCACCTCCTGCCTCCCAGCACCC
CCTGCGGAGTCAGTTGCAAGACGTGTAGGGTGGACAGTCCGCAGGGGTGTTCAGTCGCTGTGGGGTTCCC
TCAAGCCCAAACGTCTGGGATCCCAGACCCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

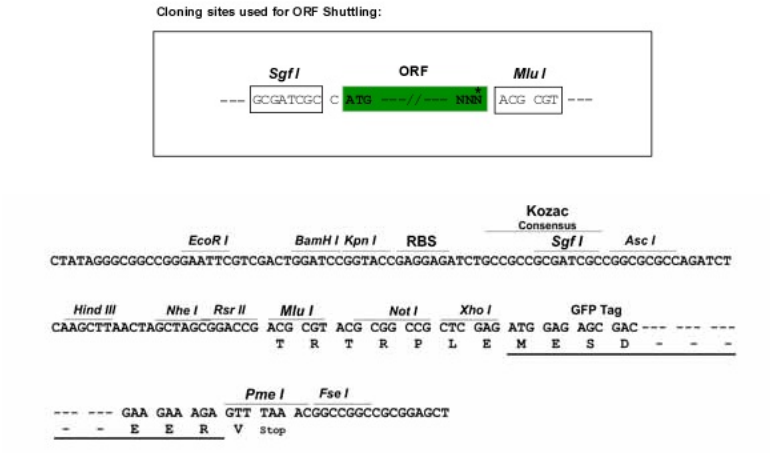
>MG206000 representing BC048395
Red=Cloning site Green=Tags(s)

MELGLKDPEEATLSFPAQSLSPEPVPQEEEKLSQRNANPGIKCFAVRSLGWVEMTEEELAPGRSSVAVNN
CIRQLSYHKNNLHDPMAGGWGEGKDLLLQLEDETLKLVEPQNQTLLHAQPIVSIRVWGVGRDSGRERDFA
YVARDKLTQMLKCHVFRCEAPAKNIATSLHEICSKIMSERRNARCLVNGLSLDHSKLVDVPFQVEFPAPK
NELVQKFQVYYLGNVPVAKPVGVDVINGALESVLSSSSREQWTPSHVSVAPATLTILHQQTEAVLGECRV
RFLSFLAVGRDVHTFAFIMAAGPASFCCHMFWCEPNAASLSEAVQAACMLRYQKCLDARSQTSTSCLPAP
PAESVARRVGWTVRRGVQSLWGSLKPKRLGSQTP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC048395

ORF Size: 1154 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: BC048395, AAH48395

RefSeq Size: 2065 bp

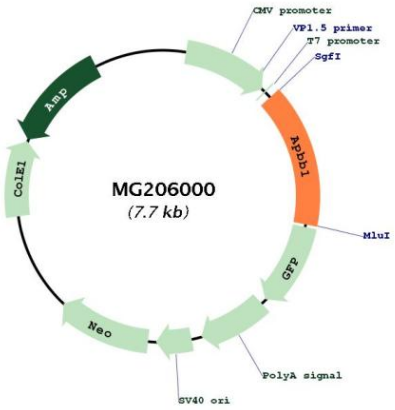
RefSeq ORF: 1154 bp

Locus ID: 11785

Cytogenetics: 7 55.9 cM

Gene Summary: Adapter protein that forms a transcriptionally active complex with the gamma-secretase-derived amyloid precursor protein (APP) intracellular domain. Plays a central role in the response to DNA damage by translocating to the nucleus and inducing apoptosis. May act by specifically recognizing and binding histone H2AX phosphorylated on 'Tyr-142' (H2AXY142ph) at double-strand breaks (DSBs), recruiting other pro-apoptosis factors such as MAPK8/JNK1. Required for histone H4 acetylation at double-strand breaks (DSBs). Its ability to specifically bind modified histones and chromatin modifying enzymes such as KAT5/TIP60, probably explains its transcription activation activity. Function in association with TSHZ3, SET and HDAC factors as a transcriptional repressor, that inhibits the expression of CASP4. Associates with chromatin in a region surrounding the CASP4 transcriptional start site(s).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG206000