

Product datasheet for **RC221596**

APPBP1 (NAE1) (NM_001018159) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | APPBP1 (NAE1) (NM_001018159) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | APPBP1 |
| Synonyms: | A-116A10.1; APPBP1; HPP1; ula-1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC221596 representing NM_001018159
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGCTCAGCAAACAAAAACAAATGAAGCCAGGTTGTGGGTGATCATGGGCAAGAGCCTTTAGAAT
 CTGCTCATGTTTGCCTAATAAATGCAACAGCCACAGGAACTGAAATTCCTAAAACTTGGTACTACCAGG
 TATTGGTTCGTTTACAATTATTGATGGAATCAGGTCAGCGGAGAAGATGCTGGAACAATTTCTTCCTT
 CAAAGAAGCAGTATCGGCAAGAACCAGCTGAAGCTGCCATGGAATTCCTACAAGAATTAATAGCGATG
 TCTCTGGAAGTTTGTGGAAGAGAGTCCAGAAAACCTTCTAGACAATGATCCCTCATTTTTCTGTAGGTT
 TACTGTTGATGTGCAACTCAGCTTCTGAAAGCACTTCACTACGCTTAGCAGATGCTCTGGAATTCC
 CAGATTCCTCTTTGATCTGTAGGACATATGGACTAGTTGGTTATATGAGGATCATTATAAAGAACATC
 CAGTAATAGAATCTCATCCAGATAATGCATTAGAGGATCTACGACTAGATAAGCCATTTCTGAACTGAG
 AGAACATTTTCAGTCCTATGATTTGGATCATATGGAAAAAAGGACCACAGTCATACTCCATGGATTGTG
 ATCATAGCTAAATATTTAGCACAGTGGTATAGTGAACAAATGGACGAATACCTAAAACGTATAAAGAAA
 AAGAGGACTTCAGAGATTTGATTAGACAAGGAATTCATAAAAAATGAAAATGGGGCTCCAGAAGATGAAGA
 GAATTTTGAAGAAGCTATTAATAATGTGAACACAGCACTAAATACAACCTCAGATCCCAAGCAGTATTGAA
 GATATATTTAATGATGATCGCTGCATAAATACACCAAACAGACTCCATCATTTTGGATTTTAGCTCGTG
 CCTTAAAGGAATTTGTGGCCAAAGAGGGTCAAGGAAATTTACCTGTTTCGAGGCACAATTCCTGATATGAT
 TGCAGATTCAGGCAAATATATAAACTGCAAAACGTTTACCGTAAAAAGCAAAGAAAGATGCTGCCGCT
 GTGGGTAATCATGTTGCCAAATTCGTCAGTCCATTGGCCAGGCCAGAGTCCATTTAGAGAAAGAAT
 TAAAATTAATCTGCAGCAATTCTGCATTTCTTCGAGTGGTAAGATGTCGATCCTTAGCTGAAGAATATGG
 TTTGGATACAATTAACAAGGATGAAATTTCTAGCATGGACAATCCAGATAATGAAATAGTGTGTAC
 TTAATGTTACGGGCTGTTGATAGATTTCTATAAACAACAGGGTAGATATCCAGGAGTATCTAACTATCAAG
 TTGAAGAAGATATAGGAAAGTTGAAGTCTGTCTCACTGGCTTCCTTCAGGAATATGGTTTATCTGTAAT
 GGTGAAAGATGATTATGTCCACGAATTTTGGCGATATGGAGCTGCTGAGCCACATACCATTGCTGCATTC
 TTGGGGGAGCTGCTGCTCAAGAGGTATCAAAATAATCACCAAACAATTTGTAATTTTTAATAACTT
 ACATTTACAGTGGCATGTCACAACTTCAGCAACTTTCCAGTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221596 representing NM_001018159
 Red=Cloning site Green=Tags(s)

MDAQQTKTNEARLWGDHGQEALESABVCLINATATGTEILKNLVLPGIGSFIIIDGNQVSGEDAGNNFFL
 QRSSIGKNRAEAAMEFLQELNSDVSGSFVEESPENLLDNDPSFFCRFTVVVATQLPESTSLRLADVLWNS
 QIPLLICRTYGLVGYMRIIIEKHPVIESHPDNALEDLRLDKPFPELREHFQSYDLDHMEKKDHSHTPWIV
 IIAKYLAQWYSETNGRIPKTYKEKEDFRDLIRQGILKNENGAPEDENFEEAIKNVNTALNTTQIPSSIE
 DIFNDDRCINITKQTPSFWILARALKEFVAKEGQGNLPVRGTIPDMIADSGKYIKLQNVYREKAKKDAAA
 VGNHVAKLLQSIGQAPESISEKELKLLCSNSAFLRVVRCRSLAEEYGLDTINKDEIISMDNPDNEIVLY
 LMLRAVDRFHKQQGRYPGVSNYQVEEDIGKLSCLTGFLQEYGLSVMVKDDYVHEFCRYGAAEPHTIAAF
 LGGAAAQEVIKIITKQFVIFNNTYIYSGMSQTSATFQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8065_f04.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001018159

ORF Size: 1584 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_001018159.1](#), [NP_001018169.1](#)

RefSeq Size: 1918 bp

RefSeq ORF: 1587 bp

Locus ID: 8883

UniProt ID: [Q13564](#)

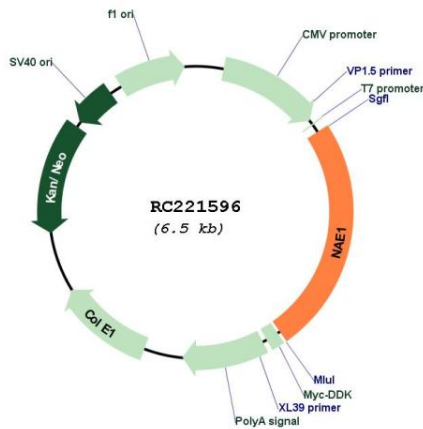
Cytogenetics: 16q22.1

Protein Pathways: Alzheimer's disease

MW: 59.2 kDa

Gene Summary: The protein encoded by this gene binds to the beta-amyloid precursor protein. Beta-amyloid precursor protein is a cell surface protein with signal-transducing properties, and it is thought to play a role in the pathogenesis of Alzheimer's disease. In addition, the encoded protein can form a heterodimer with UBE1C and bind and activate NEDD8, a ubiquitin-like protein. This protein is required for cell cycle progression through the S/M checkpoint. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC221596