OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC117674

APPBP1 (NAE1) (NM_003905) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APPBP1 (NAE1) (NM_003905) Human Untagged Clone
Tag:	Tag Free
Symbol:	APPBP1
Synonyms:	A-116A10.1; APPBP1; HPP1; ula-1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC117674 sequence for NM_003905 edited (data generated by NextGen Sequencing)

ATGGCGCAGCTGGGAAAGCTGCTCAAGGAGCAGAAGTACGACCGGCAGCTGAGGTTGTGG
GGTGATCATGGGCAAGAGGCTTTAGAATCTGCTCATGTTTGCCTAATAAATGCAACAGCC
ACAGGAACTGAAATTCTTAAAAACTTGGTACTACCAGGTATTGGTTCGTTTACAATTATT
GATGGAAATCAGGTCAGCGGAGAAGATGCTGGAAACAATTTCTTCCTTCAAAGAAGCAGT
ATCGGCAAGAACCGAGCTGAAGCTGCCATGGAATTCTTACAAGAATTAAATAGCGATGTC
TCTGGAAGTTTTGTGGAAGAGAGTCCAGAAAACCTTCTAGACAATGATCCCTCATTTTTC
TGTAGGTTTACTGTTGTAGTTGCAACTCAGCTTCCTGAAAGCACTTCACTACGCTTAGCA
GATGTCCTCTGGAATTCCCAGATTCCTCTTTTGATCTGTAGGACATATGGACTAGTTGGT
TATATGAGGATCATTATAAAAGAACATCCAGTAATAGAATCTCATCCAGATAATGCATTA
GAGGATCTACGACTAGATAAGCCATTTCCTGAACTGAGAGAACATTTTCAGTCCTATGAT
TTGGATCATATGGAAAAAAAGGACCACAGTCATACTCCATGGATTGTGATCATAGCTAAA
TATTTAGCACAGTGGTATAGTGAAACAAATGGACGAATACCTAAAACGTATAAAGAAAAA
GAGGACTTCAGAGATTTGATTAGACAAGGAATTCTAAAAAATGAAAATGGGGCTCCAGAA
GATGAAGAGAATTTTGAAGAAGCTATTAAAAATGTGAACACAGCACTAAATACAACTCAG
ATCCCAAGCAGTATTGAAGATATATTTAATGATGATCGCTGCATAAATATCACCAAACAG
ACTCCATCATTTTGGATTTTAGCTCGTGCCTTAAAGGAATTTGTGGCCAAAGAGGGTCAA
GGAAATTTACCTGTTCGAGGCACAATTCCTGATATGATTGCAGATTCAGGCAAATATATA
AAACTGCAAAACGTTTACCGTGAAAAAGCAAAGAAAGATGCTGCCGCTGTGGGTAATCAT
GTTGCCAAATTGCTGCAGTCCATTGGCCAGGCACCAGAGTCCATTTCAGAGAAAGAATTA
AAATTACTCTGCAGCAATTCTGCATTTCTTCGAGTGGTAAGATGTCGATCCTTAGCTGAA
GAATATGGTTTGGATACAATTAACAAGGATGAAATTATTTCTAGCATGGACAATCCAGAT
AATGAAATAGTGTTGTACTTAATGTTACGGGCTGTTGATAGATTTCATAAACAACAGGGT
AGATATCCAGGAGTATCTAACTATCAAGTTGAAGAAGATATAGGAAAGTTGAAGTCTTGT
CTCACTGGCTTCCTTCAGGAATATGGTTTATCTGTAATGGTGAAAGATGATTATGTCCAC
GAATTTTGCCGATATGGAGCTGCTGAGCCACATACCATTGCTGCATTCTTGGGGGGAGCT
GCTGCTCAAGAGGTCATCAAAATAATCACCAAACAATTTGTAATTTTTAATAATACTTAC
ATTTACAGTGGCATGTCACAAACTTCAGCAACTTTCCAGTTGTAG

Clone variation with respect to NM_003905.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003905 unedited

TGCGNCATATTTGGAATACCCATTCACTCATAGGGCGCGCCGCGCAATTCGGCACGAGGG
CTCCGCAGGGCTCGGCTGTTTTCCGCGCGGCAGGCGCGGCCATGGCGCACCTGGGAAAGC
TGCTCAAGGAGCAGAAGTACGACCGGCAGCTGAGGTTGTGGGGTGATCATGGGCAAGAGG
CTTTAGAATCTGCTCATGTTTGCCTAATAAATGCAACTTTTCCAGGAACTGAAATTCTTA
AAAACTTGGGACTACCAGGTATTGGCTCGTTTACAATTATTGATGGAAATCAGGTCAGCG
GAGAAGATGCTGGAAACAATTTCTTCCTTCAAAGAAGCAGTATCGGCAAGAACCGAGCTG
AAGCTGCCATGGAATTCTTACAAGAATTAAATAGCGATGTCTCTGGAAGTTTTGTGGAAG
AGAGTCCAGAAAACCTTCTAGACAATGATCCCTCATTTTTCTGTAGGTTTACTGTTGTAG
TTGCAACTCAGCTTCCTGAAAGCACTTCACTACGCTTAGCAGATGTCCTCTGGAATTCCC
AGATTCCTCTTTTGATCTGTAGGACATATGGACTAGTTGGTTATATGAGGATCATTATAA
AAGAACATCCAGTAATAGAATCTCATCCAGATAATGCATTAGAGGATCTACGACTAGATA
AGCCATTTCCTGAACTGAGAGAACATTTTCAGTCCTATGATTGGGATCATATGGAAAAAA
AGGACCACAGTCATACTCCATGGATTGTGATCATAGCTAAATATTTAGCACAGTGGTATA
GTGAAACAAATGGACGAATTCCTTAAACGTACTAAGAACAAGAGGACTTCCCAGATTTGA
TTAGACAAGGAACTCCTAAAAATGAAAACGGGGCTCCAGAGAATGAAAAGAATTTTGAAA
AACTATTAAAAATGGGAACCCAGCCCTAAATACAACTCAN

3' Read Nucleotide Sequence:

```
>OriGene 3' read for NM_003905 unedited
CCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTGCAAATGAGAAAAATGTTTATTAA
GAAAACAATTTAGCAGCTCTCCTTTAGAATTTTACAGACTAAAGCACAACCCGAAGGCAA
TTACAGTTTCAATCATTAACACACTACTTAAGGTGCTTGCTTACTCTACAACTGGAAAGT
TGCTGAAGTTTGTGACATGCCACTGTAAATGTAAGTATTATTAAAAATTACAAATTGTTT
GGTGATTATTTTGATGACCTCTTGAGCAGCAGCTCCCCCCAAGAATGCAGCAATGGTATG
TGGCTCAGCAGCTCCATATCGGCAAAATTCGTGGACATAATCATCTTTCACCATTACAGA
TAAACCATATTCCTGAAGGAAGCCAGTGAGACAAGACTTCAACTTTCCTATATCTTCTTC
AACTTGATAGTTAGATACTCCTGGATATCTACCCTGTTGTTTATGAAATCTATCAACAGC
CCGTAACATTAAGTACAACACTATTTCATTATCTGGATTGTCCATGCTAGAAATAATTTC
ATCCTTGTTAATTGTATCCAAACCATATTCTTCAGCTAAGGATCGACATCTTACCACTCG
AAGAAATGCAGAATTGCTGCAGAGTAATTNTAATTCTTTCTCTGAAATGGACTCTGGTGC
CTGGCCAATGGACTGCAGCAATTTGGCAACATGATTACCCACAGCGGCAGCATCTTTCTT
TGCTTTTTACGGTAAACGTTNTGCAGTTTTATATATTTGCCTGAATCTGNCATCATATCA
NGAATTGTGCCTCNGACAGGTAAAATTCCCTTGACCCTCTTNTGCCCNNAATCCTTTANG
CACGAGCTAAAATCCAATGATGGAGTCTGTTTGGTGATATTATGCAGCGATCATCATTAA
TATATCTCATACTGNCTGGNATCTGAGTTGNATTTAAGGCTGNGTTCACATTTTAATAGC
TCTTCAAAATCTCTCTCTNTCTGGACCCCATTTCATTNTTAGATNCCTGNCTATCAATCC
CT
```

Restriction Sites: NotI-NotI

ACCN: NM_003905

Insert Size: 1950 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_003905.3, NP_003896.1

RefSeq Size: 1820 bp

RefSeq ORF: 1605 bp

Locus ID: 8883

UniProt ID: Q13564

Cytogenetics: 16q22.1

Domains:	ThiF
Protein Pathways:	Alzheimer's disease
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] Transcript Variant: This variant (1) encodes the predominant isoform (a).