

## Product datasheet for **RG201326**

### **APPBP1 (NAE1) (NM\_001018160) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	APPBP1 (NAE1) (NM_001018160) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	APPBP1
Synonyms:	A-116A10.1; APPBP1; HPP1; ula-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG201326 representing NM\_001018160  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCGCAGCTGGAAAGCTGCTCAAGGAGCAGAAGTACGACCGCAGCTGAGGTTGTGGGTGATCATG  
 GGCAAGAGGCTTTAGAATCTGCTCATGTTGCCTAATAAATGCAACAGCCACAGGAACTGAAATCTTAA  
 AAACCTGGTACTACCAGGTATTGGTTCGTTTACAATTATTGATGGAAATCAGGTCAGCGGAGAAGATGCT  
 GGAAACAATTTCTCCTCAAAGAAGCAGTATCGGCAAGAACCGAGCTGAAGCTGCCATGGAATCTTAC  
 AAGAATTAATAGCGATGCTCTGGAAGTTTTGTGAAGAGAGTCCAGAAAACCTTCTAGACAATGATCC  
 CTCATTTTTCTGAGGTTACTGTTGTAGTTGCAACTCAGCTTCTGAAAGCACTTCACTACGCTTAGCA  
 GATGTCCTCTGGAATCCAGATTCCTCTTTGATCTGTAGGACATATGGACTAGTTGGTTATATGAGGA  
 TCATTATAAAGAACATCCAGTAATAGAATCTCATCCAGATAATGCATTAGAGGATCTACGACTAGATAA  
 GCCATTTCTGAACTGAGAGAACATTTTTCAGTCTATGATTTGGATCATATGGAAAAAAGACCACAGT  
 CATACTCCATGGATTGTGATCATAGCTAAATTTAGCACAGTGGTATAGTGAACAAATGGACGAATAC  
 CTAACACGTATAAAGAAAAAGAGGACTTCAGAGATTTGATTAGACAAGGAATCTAAAAATGAAATGG  
 GGCTCCAGAAGATGAAGAGAATTTGAAGAAGCTATAAAAATGTGAACACAGCACTAAATACAACCTCAG  
 ATCCCAAGCAGTATTGAAGATATATTAATGATGATCGCTGCATAAATATCACCAACAGACTCCATCAT  
 TTTGGATTTAGCTCGTGCCTTAAAGGAATTTGTGGCCAAAGAGGGTCAAGGAAATTTACCTGTTTCGAGG  
 CACAATCCTGATGATGATGTCAGATTCAGGCAATATATAAACTGCAAAACGTTTACCGTGAAAAAGCA  
 AAGAAAGATGCTGCCGCTGTGGTAATCATGTTGCCAAATGCTGCAGTCCATTGGCCAGGCACAGAT  
 CCATTTACAGAAAAGAATTAATACTCTGACGCAATTCGATTTCTCGAGTGGTAAGATGTCGATC  
 CTAGCTGAAGAATATGGTTGGATACAATTAACAAGGATGAAATTTATTCTAGCATGGACAATCCAGAT  
 AATGAAATAGTGTGACTTAATGTTACGGGCTGTTGATAGATTTATAAACAACAGGGTATATCCAG  
 GAGTATCTAACTCAAGTTGAAGAAGATATAGGAAAGTTGAAGTCTTGTCTCACTGGCTTCCTTCAGGA  
 ATATGGTTTATCTGTAATGGTGAAGATGATTATGTCCACGAATTTGCGGATATGGAGCTGCTGAGCCA  
 CATACCATTGCTGCATTCTGGGGGAGCTGCTGCTCAAGAGGTCATCAAATAATCACCAACAATTTG  
 TAATTTTAATAACTTACATTTACAGTGGCATGCACAACTTCAGCAACTTTCCAGTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG201326 representing NM\_001018160  
 Red=Cloning site Green=Tags(s)

MAQLGKLLKEQKYDRQLRLWGDHGQEALESABVCLINATATGTEILKNLVLPGIGSFTIIDGNQVSGEDA  
 GNNFFLQRSSIGKNRAEAAMEFLQELNSDVSGSFVEESPENLLDNDPSFFCRFTVVVATQLPESTSLRLA  
 DVLWNSQIPLLICRTYGLVGYMRIIIEKHPVIESHPDNALEDLRDKPFPELREHFQSYDLDHMEKKDHS  
 HTPWIVIIAKYLAQWYSETNGRIPKTYKEKEDFRDLIRQGILKNENGAPEDENFEEAIKNVNTALNTTQ  
 IPSSIEDIFNDDRCINITKQTPSFWILARALKEFVAKEGQGNLPVVRTIPDMIADSGKYIKLQNVYREKA  
 KKDAAAVGNHVAKLLQSIGQAPESISEKELKLLCSNSAFLRVVRCRSLAEEYGLDTINKDEIISMDNPD  
 NEIVLYMLRAVDRFHKQGRYPGVSNYQVEEDIGKLSCLTGFLQEYGLSVMVKDDYVHEFCRYGAAEP  
 HTIAAFLGAAAQEVIKIITKQVIFNNTYIYSGMSQTSATFQL

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001018160

**ORF Size:** 1602 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\\_001018160.1](#), [NP\\_001018170.1](#)

**RefSeq Size:** 1716 bp

**RefSeq ORF:** 1338 bp

**Locus ID:** 8883

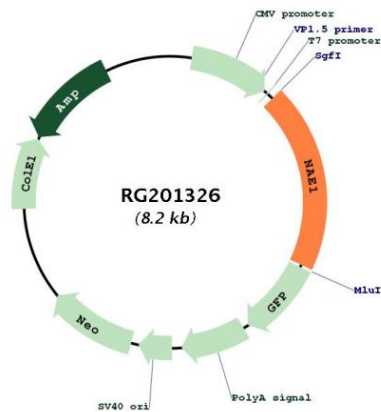
**UniProt ID:** [Q13564](#)

**Cytogenetics:** 16q22.1

**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]

**Product images:**



Circular map for RG201326