

Product datasheet for **RG221596**

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:	TurboGFP
Symbol:	NAE1
Synonyms:	A-116A10.1; APPBP1; HPP1; ula-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG221596 representing NM_001018159
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATGCTCAGCAAACAAAAACAAATGAAGCCAGGTTGTGGGTGATCATGGGCAAGAGCCTTTAGAAT
 CTGCTCATGTTTGCCTAATAAATGCAACAGCCACAGGAACTGAAATTCCTAAAACTTGGTACTACCAGG
 TATTGGTTCGTTTACAATTATTGATGAAATCAGGTCAGCGGAGAAGATGCTGAAAAAATTTCTTCCTT
 CAAAGAAGCAGTATCGGCAAGAACCAGCTGAAGCTGCCATGGAATTCCTACAAGAATTAATAGCGATG
 TCTCTGGAAGTTTGTGGAAGAGAGTCCAGAAAACCTTCTAGACAATGATCCCTCATTTTTCTGTAGGTT
 TACTGTTGATGTGCAACTCAGCTTCTGAAAGCACTTCACTACGCTTAGCAGATGCTCTGGAATTCC
 CAGATTCCTCTTTGATCTGTAGGACATATGGACTAGTTGGTTATATGAGGATCATTATAAAGAATC
 CAGTAATAGAATCTCATCCAGATAATGCATTAGAGGATCTACGACTAGATAAGCCATTTCTGAACTGAG
 AGAACATTTTCAGTCCTATGATTTGGATCATATGGAAAAAAGGACCACAGTCATACTCCATGGATTGTG
 ATCATAGCTAAATATTTAGCACAGTGGTATAGTGAACAAATGGACGAATACCTAAAACGTATAAAGAAA
 AAGAGGACTTCAGAGATTTGATTAGACAAGGAATTCATAAAAAATGAAAATGGGGCTCCAGAAGATGAAGA
 GAATTTTGAAGAAGCTATTAATAATGTGAACACAGCACTAAATACAACCTCAGATCCCAAGCAGTATTGAA
 GATATATTTAATGATGATCGCTGCATAAATACACCAACAGACTCCATCATTTTGGATTTTAGCTCGTG
 CCTTAAAGGAATTTGTGGCCAAAGAGGGTCAAGGAAATTTACCTGTTTCGAGGCACAATTCCTGATATGAT
 TGCAGATTCAGGCAAATATATAAACTGCAAAACGTTTACCGTAAAAAGCAAAGAAAGATGCTGCCGCT
 GTGGGTAATCATGTTGCCAAATTCGTCAGTCCATTGGCCAGGCCACCAGAGTCCATTTAGAGAAAGAAT
 TAAAATTACTCTGCAGCAATTCTGCATTTCTTCGAGTGGTAAGATGTCGATCCTTAGCTGAAGAATATGG
 TTTGGATACAATTAACAAGGATGAAATTAATTTCTAGCATGGACAATCCAGATAATGAAATAGTGTGTAC
 TTAATGTTACGGGCTGTTGATAGATTTCTATAAACAACAGGGTAGATATCCAGGAGTATCTAACTATCAAG
 TTGAAGAAGATATAGGAAAGTTGAAGTCTGTCTCACTGGCTTCCTTCAGGAATATGGTTTATCTGTAAT
 GGTGAAAGATGATTATGTCCACGAATTTTGGCGATATGGAGCTGCTGAGCCACATACCATTGCTGCATTC
 TTGGGGGAGCTGCTGCTCAAGAGGTATCAAAATAATCACCAACAATTTGTAATTTTTAATAACTT
 ACATTTACAGTGGCATGTCACAACTTCAGCAACTTTCCAGTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG221596 representing NM_001018159
 Red=Cloning site Green=Tags(s)

MDAQQTKTNEARLWGDHGQEALESABVCLINATATGTEILKNLVLPGIGSFTHIDGNQVSGEDAGNNFFL
 QRSSIGKNRAEAAMEFLQELNSDVSGSFVEESPENLLDNDPSFFCRFTVVVATQLPESTSLRLADVLWNS
 QIPLLICRTYGLVGYMRIIIEKHPVIESHPDNALEDLRLDKPFPELREHFQSYDLHMEKKDHSHTPWIV
 IIAKYLAQWYSETNGRIPKTYKEKEDFRDLIRQGILKNENGAPEDENFEEAIKNVNTALNTTQIPSSIE
 DIFNDDRCINITKQTPSFWILARALKEFVAKEGQGNLPVRGTIPDMIADSGKYIKLQNVYREKAKKDAAA
 VGNHVAKLLQSIGQAPESISEKELKLLCSNSAFLRVVRCRSLAEEYGLDTINKDEIISMDNPDNEIVLY
 LMLRAVDRFHKQQGRYPGVSNYQVEEDIGKLSCLTGFLQEYGLSVMVKDDYVHEFCRYGAAEPHTIAAF
 LGGAAAQEVIKIITKQFVIFNNTYIYSGMSQTSATFQL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

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:	<ol style="list-style-type: none">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
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]