

## Product datasheet for **RC238788**

### **APPBP1 (NAE1) (NM\_001286500) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	APPBP1 (NAE1) (NM_001286500) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NAE1
Synonyms:	A-116A10.1; APPBP1; HPP1; ula-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238788 representing NM\_001286500  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGCAGCTGGAAAGCTGCTCAAGGAGCAGAAGTACGACCGCAGCTGAGGTTGTGGGTGATCATG  
 GGCAAGAGGCTTTAGAATCTGCTCATGTTGCCTAATAAATGCAACAGCCACAGGAACTGAAATCTTAA  
 AAACCTGGTACTACCAGGTAACGTAGGTATTGGTTCGTTTACAATTATTGATGGAATCAGGTCAGCGGA  
 GAAGATGCTGGAAACAATTTCTCCTTCAAAGAAGCAGTATCGGCAAGAACCAGCTGAAGCTGCCATGG  
 AATTCTTACAAGAATTAATAGCGATGTCTCTGGAAGTTTGTGGAAGAGAGTCCAGAAAACCTTCTAGA  
 CAATGATCCCTCATTTTTCTGTAGGTTTACTGTTGTAGTTGCAACTCAGCTTCTGAAAGCACTTCACTA  
 CGCTTAGCAGATGTCCTCTGGAATTCAGATTCTCTTTGATCTGTAGGACATATGGACTAGTTGGTT  
 ATATGAGGATCATTATAAAGAACATCCAGTAATAGAATCTCATCCAGATAATGCATTAGAGGATCTACG  
 ACTAGATAAGCCATTTCTGAACTGAGAGAACATTTTCAGTCCTATGATTTGGATCATATGGAAAAAAG  
 GACCACAGTCATACTCCAATGGATTGTGATCATAGCTAAATATTTAGCACAGTGGTATAGTGAACAATG  
 GACGAATACCTAAAACGTATAAAGAAAAAGAGGACTTCAGAGATTTGATTAGACAAGGAATTTCTAAAAA  
 TGAAAAATGGGGCTCCAGAAGATGAAGAGAATTTGAAGAAGCTATTAATAATGTGAACACAGCACTAAAT  
 ACAACTCAGATCCCAAGCAGTATTGAAGATATATTTAATGATGATCGCTGCATAAATATCACCAACAGA  
 CTCCATCATTTTGGATTTAGCTCGTGCCTAAAGGAATTTGTGGCCAAAGAGGGTCAAGGAAATTTACC  
 TGTTCCGAGGCACAATTCCTGATATGATTGCAGATTCAGGCAAATATAAACTGCAAAACGTTTACCGT  
 GAAAAAGCAAAGAAAGATGCTGCCGCTGTGGTAATCATGTTGCCAAATGCTGCAGTCCATTGGCCAGG  
 CACCAGATCCATTTAGAGAAAAGAAATAAAATTAATCTGCAGCAATTCGATTTCTCGAGTGGTAAG  
 ATGTCGATCCTTAGCTGAAGAATATGGTTGGATACAATTAACAAGGATGAAATATTTCTAGCATGGAC  
 AATCCAGATAATGAAATAGTGTACTTAATGTTACGGGCTGTTGATAGATTTCAAAACAACAGGGTA  
 GATATCCAGGAGTATCTAACTATCAAGTTGAAGAAGATATAGGAAAGTTGAAGTCTGTCTCACTGGCTT  
 CCTTCAGGAATATGGTTTATCTGTAATGGTGAAGATGATTATGTCCACGAATTTTGGCGATATGGAGCT  
 GCTGAGCCACATACCATTGCTGCATTCTGGGGGAGCTGCTGCTCAAGAGGTCATCAAAAATATCACCA  
 AACAAATTTGTAATTTTAAATAACTTACATTTACAGTGGCATGTCACAACTTCAGCAACTTTCCAGTT  
 G

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238788 representing NM\_001286500  
 Red=Cloning site Green=Tags(s)

MAQLGKLLKEQKYDRQLRLWGDHGQEALES AHVCLINATATGTEILKNLVLPGNVIGSFTIIDGNQVSG  
 EDAGNNFFLQRSSIGKNRAEAAMEFLQELNSDVS GSFVEESPENLLDNDPSFFCRFTVVVATQLPESTSL  
 RLADVLWNSQIPLLCRTYGLVGYMRIIIEKHPVIESHPD NALEDLRLDKPFPELREHFQSYDLDHMEKK  
 DHSHTPWIVIIAKYLAQWYSETNGRIPKTYKEKEDFRDLIRQGILKNENGAPEDENFEEAIKNVNTALN  
 TTQIPSSIEDIFNDDRCINITKQTPSFWILARALKEFVAKEGQGNLPVRGTIPDMIADSGKYIKLQNVYR  
 EKAKKDAAAVGNHVAKLLQSIGQAPESISEKELKLLCSNSAFLRVVRCRSLAEEYGLDTINKDEIISMD  
 NPDNEIVLYMLRAVDRFHKQGRYPGVSNYQVEEDIGKLSCLTGFLQEYGLSVMVKDDYVHEFCRYGA  
 AEPHTIAAFLGGAAAQEVIKIITKQVFVFNNTYIYSGMSQTSATFQL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_001286500
<b>ORF Size:</b>	1611 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001286500.1</a> , <a href="#">NP_001273429.1</a>
<b>RefSeq Size:</b>	1826 bp
<b>RefSeq ORF:</b>	1614 bp
<b>Locus ID:</b>	8883
<b>UniProt ID:</b>	<a href="#">Q13564</a>
<b>Cytogenetics:</b>	16q22.1
<b>Protein Pathways:</b>	Alzheimer's disease
<b>MW:</b>	61 kDa
<b>Gene Summary:</b>	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]