

Product datasheet for **RG238788**

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:	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:

>RG238788 representing NM_001286500.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCGACGCTGGGAAAGCTGCTCAAGGAGCAGAAGTACGACCGCGACGTGAGGTTGTGGGTGATCAT
GGGCAAGAGGCTTTAGAATCTGCTCATGTTTGCCTAATAAATGCAACAGCCACAGGAACTGAAATCTTT
AAAAACTTGGTACTACCGGTAACGTAGGTATTGGTTCGTTTACAATTATTGATGGAAATCAGGTACGC
GGAGAAGATGCTGAAACAATTTCTTCTTCAAAGAAGCAGTATCGGCAAGAACCAGCTGAAGCTGCC
ATGGAATCTTACAAGAATTAATAGCGATGTCTCTGGAAGTTTTGTGGAAGAGAGTCCAGAAAACCTT
CTAGACAAATGATCCCTCATTTTTCTGTAGGTTTACTGTTGTAGTTGCAACTCAGCTTCTGAAAGCACT
TCACTACGCTTAGCAGATGTCCTCTGGAATTCAGATTCTCTTTTATCTGTAGGACATATGGACTA
GTTGGTTATATGAGGATCATTATAAAGAACATCCAGTAATAGAATCTCATCCAGATAATGCATTAGAG
GATCTACGACTAGATAAGCCATTTCTGAACTGAGAGAACATTTTCAGTCTATGATTTGGATCATATG
GAAAAAAGGACCACAGTCATACTCCATGGATTGTGATCATAGCTAAATATTTAGCACAGTGGTATAGT
GAAACAAATGGACGAATACCTAAAACGTATAAAGAAAAAGAGGACTTCAGAGATTTGATTAGACAAGGA
ATTCTAAAAAATGAAATGGGGCTCCAGAAGATGAAGAGAATTTTGAAGAAGCTATTAATAATGTGAAC
ACAGCACTAAATACAACCTCAGATCCAAGCAGTATTGAAGATATATTTAATGATGATCGTGCATAAAT
ATCACCAAACAGACTCCATCATTTTTGGATTTTAGCTCGTGCCTTAAAGGAATTTGTGGCCAAAGAGGGT
CAAGGAAATTTACCTGTTGAGGACAAATTCCTGATATGATTGCAGATTCAGGCAATATATAAACTG
CAAAACGTTTACCGTAAAAAGCAAAGAAAGATGCTGCCGCTGTGGGTAATCATGTTGCCAAATTTGCTG
CAGTCCATTGGCCAGGCACCAGAGTCCATTTAGAGAAAGAATTAATAACTCTGCAGCAATTTGCA
TTTCTTCGAGTGGTAAGATGTCGATCCTTAGCTGAAGAATATGGTTGGATACAATTAACAAGGATGAA
ATTATTTCTAGCATGGACAATCCAGATAATGAAATAGTGTGTACTTAATGTTACGGGCTGTTGATAGA
TTTCATAAACAACAGGAGATATCCAGGAGTATCTAACTATCAAGTTGAAGAAGATATAGGAAAGTTG
AAGTCTTGTCTACTGGCTTCTTCCAGGAATATGGTTTATCTGTAATGGTGAAGATGATTATGTCCAC
GAATTTTGCCGATATGGAGCTGCTGAGCCACATACCATTGCTGCATTCTTGGGGGAGCTGCTGCTCAA
GAGGTCATCAAAATAATCACCAACAATTTGTAATTTTTAATAACTTACATTTACAGTGGCATGTCA
CAAACCTCAGCAACTTTCCAGTTG
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTAAAC
  
```

Protein Sequence:

>Peptide sequence encoded by RG238788
 Blue=ORF Red=Cloning site Green=Tag(s)

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MAQLGKLLKEQKYDRQLRLWGDHGQEALESADVCLINATATGTEILKNLVLPGNVIGSFTIIDGNQVS
GEDAGNFFLQRSSIGKNRAEAAMEFLQELNSDVSGSFVEESPENLLDNDPSFFCRFTVVVATQLPEST
SLRLADVLWNSQIPLLICRTYGLVGYMRIIIEHPVIESHPDNALEDLRLDKPFPELREHFQSYDLDM
EKKDHSHTPWIVIIAKYLAQWYSETNGRIPKTYEKEDFRDLIRQGILKNENGAPEDENFEEAIKNVN
TALNTTQIPSSIEDIFNDDRCINITKQTPSWILARALKEFVAKEGQGNLPVVRGTIPDMIADSGYIKL
QNVYREKAKKDAAAVGNHVAKLLQSIGQAPESISEKELKLLCSNSAFLRVRCRSLAEEYGLDTINKDE
IISMDNPDNEIVLYMLRAVDRFHKQGRYPGVSNYQVEEDIGLKSCLTGFLQEYGLSVMVKDDYVH
EFCRYGAAEPHTIAAFLGAAAQEVIKIITKQFVIFNNTYIYSGMSQTSATFQL
TRTRPLEMESDESGLPAMEIECRITGLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

Restriction Sites:

Sgfl-MluI

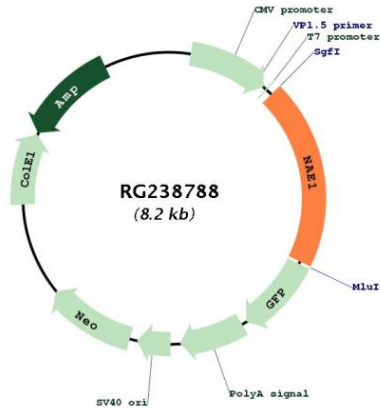
Cloning Scheme:


- ACCN:** NM_001286500
- ORF Size:** 1611 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).
- RefSeq:** [NM_001286500.1](#), [NP_001273429.1](#)
- RefSeq Size:** 1826 bp
- RefSeq ORF:** 1614 bp
- Locus ID:** 8883
- UniProt ID:** [Q13564](#)
- Cytogenetics:** 16q22.1
- Protein Pathways:** Alzheimer's disease
- MW:** 61 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 RG238788