

Product datasheet for **RC238658**

APPBP2 (NM_001282476) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APPBP2 (NM_001282476) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	APPBP2
Synonyms:	APP-BP2; HS.84084; PAT1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238658 representing NM_001282476
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTACTACAAGACATTTGCTTCATCATTGTTTTAGGCTTTGATGGATCATGGTGTAAAGTTGCTT
 CAGTCTTGGCCTACTCATTCAAGTAGGCGGTGCTCTTATATAGCAGAATCAGATGCTGCAGTAAAGGAAAA
 AGCCATTCAGGTTGGCTTTGTTTTAGGTGGCTTTCTTTCAGATGCAGGCTGGTACAGTGTGCTGAGAAA
 GTTTTTCTGCTGCCTTCAGTTGTGTACTCTACACGATGAGATGCTTCATTGGTTTCGTGCAGTAGAAT
 GTTGTGTGAGGTTGCTTCATGTGCGAAATGAAACTGCAAATATCATTGGGTGAAGAAACATTTAAATT
 AGCTCAGACATATATGGATAAACTATCAAAACATGGCCAGCAAGCAAATAAAGCTGCACTCTATGGAGAA
 CTGTGTGCACTCCTATTTGCAAAAAGTCACTATGATGAGGCATACAAATGGTGCATCGAGGCAATGAAAG
 AAATTACAGCAGGCTTACCAGTAAAGTTGTGGTGGATGTCTTAAGACAAGCTTCTAAGGCTTGTGTAGT
 AAAACGTGAATTAAGAAGGCAGAACAGTTAATTAACATGCAGTGTATTTGGCACGGGATCATTTTGGAA
 TCCAAACACCCAAAATATTCTGATACACTGCTAGATTATGGGTTCTACTACTCAATGTAGATAATATCT
 GTCAGTCTGTTGCAATTTATCAGGCAGCCCTTGACATTAGACAGTCAGTGTGGTGGCAAAAATATCCA
 CGTAGCAACAGCTCATGAAGATTTGGCCTACTCTTCTTATGTCCACAGTATAGCTCTGGGAAATTTGAC
 AATGCACTATTTTCATGCAGAAAGAGCTATTGGTATCATTACCCACATCCTACCTGAAGATCATCTCTTT
 TGGCTTCTTCAAAGAGGGTGAAGCACTATTTTAGAGGAGATTGCAATTGATTGCATAATAAGGAAAC
 TGAACAGAGGCTGCTTCAAGAAGCTCATGATTTGCACCTGTCTTCACTCCAAGTAAAGGCTTTT
 GGGGAATTTAATGTACAGACTGCAAAACACTATGAAACCTTGAAGACTTTATCAGTCAATGAGAAAAT
 TTAAGGAAGCTGAAGAAATGCACATCAAAGCAATTCAGATTAAGAACAACCTTCTTGGTCAAGAAGATTA
 TGAAGTAGCCCTTTCAGTGGGACATCTGGCTTCTTTATATAAATTATGACATGAATCAGTATGAAAATGCT
 GAGAAACTTTATTTGCGATCTATAGCAATTGGGAAGAACTTTTTGGTGGGGCTACAGTGGACTAGAAT
 ATGATTATCGAGGTCTCATTAACTTTACAACCTCATTGGAAATACGAGAAAGTGTGTAATACACAA
 TGTCTGTCTAACTGGAACCGGTTGCGAGATCGGCAATTTCAAGTACAGATGCTCTTGAAGATGTCAGC
 ACCAGCCCCAGTCCACTGAAGAAGTGGTGCAGTCTTCTGATTCTCAGAAATGTCAGGGGACCGAGCT
 GC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238658 representing NM_001282476
 Red=Cloning site Green=Tags(s)

MFTTRHLLHHC FQALMDHGKVASVLAYSFSRRCSYIAESDAVKEKAIQVGFVLGGFLSDAGWYSDAEK
 VFLSCLQLCTLHDEMLHWFRAVECCVRL LHVRNGNCKYHLGEETFKLAQTYMDKLSKHGQQANKAALYGE
 LCALLFAKSHYDEAYKWCIEAMKEITAGLPVKVVVDVLRQASKACVVKREFKKAELIKHAVYLRDHF
 SKHPKYSDTL LDYGFYLLNVDNICQSVAIYQAALDIRQSVFGGKNIHVATAHEDLAYSSYVHQYSSGKFD
 NALFHAERAIGIITHILPEDHLL LASSKRVKALILEEIAIDCHNKETEQRLLQE AHDHLSSLQLAKKAF
 GEFNVQTA KH YGNLGR L YQSMRFKEAEEMHIKAIQIKEQLLGQEDYEVALSVGH L ASL YNYDMNQYENA
 EKLYLRSIAIGK KLFGE GYSGL EYDRGLIKLYNSIGNYEKVF EYHNVLSNWNRLRDRQYSVTDAL EDVS
 TSPQSTEEVVQSFLISQNVGPSC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

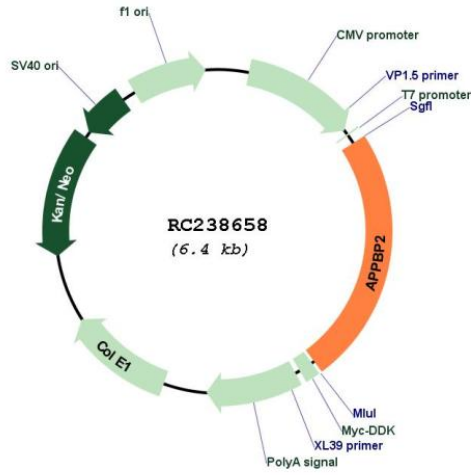
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001282476
ORF Size:	1542 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_001282476.1 , NP_001269405.1
RefSeq Size:	6410 bp
RefSeq ORF:	1545 bp
Locus ID:	10513
UniProt ID:	Q92624
Cytogenetics:	17q23.2
Protein Families:	Druggable Genome
MW:	59 kDa
Gene Summary:	The protein encoded by this gene interacts with microtubules and is functionally associated with beta-amyloid precursor protein transport and/or processing. The 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. The encoded protein may be involved in regulating cell death. This gene has been found to be highly expressed in breast cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]