

## Product datasheet for **RC226500**

### Aph 1b (APH1B) (NM\_001145646) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aph 1b (APH1B) (NM_001145646) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aph 1b
Synonyms:	APH-1B; PRO1328; PSFL; TAAV688
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC226500 representing NM_001145646 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTGCGGCCGTGTTCTTCGGCTGCGCCTTCATTGCCTTCGGGCTGCGCTCGCCCTTATGTCTTCA  
CCATCGCCACCGAGCCGTTGCGTATCATCTTCCTCATCGCCGGAGCTTCTTCTGGTTGGTGTCTCTACT  
GATTCGTCCTTGTGGTTCATGGCAAGAGTCATTATTGACAACAAAGATGGACCAACACAGAAATAT  
CTGCTGATCTTTGGAGCGTTTGTCTCTGTCTATATCCAAGAAATGTTCCGATTTGCATATTATAAATCT  
TAAAAAAGCCAGTGAAGTTTGAAGAGTATAAACCCAGGTGAGACAGCACCCCTATGCGACTGCTGGC  
CTATGCTTTCATGACGCTGGTCATTATCTTGCTGCATGTATTCTGGGGCATTGTATTTTTGATGGCTGT  
GAGAAGAAAAAGTGGGGCATCCTCCTTATCGTTCTCCTGACCCACCTGCTGGTGTGAGCCAGACCTTCA  
TAAGTTCTTATTATGGAATAAACCTGGCGTCAGCATTATAATCCTGGTGTCTATGGGCACCTGGGCATT  
CTTAGCTGCGGGAGGCAGCTGCCGAAGCCTGAAACTCTGCCTGTCTGCCAAGACAAGAAGCTTCTTCTT  
TACAACCAGCGCTCCAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC226500 representing NM\_001145646  
 Red=Cloning site Green=Tags(s)

MTAAVFFGCAFIAFGPALALYVFTIATEPLRIIFLIAGAFFWLVSLLISSLVWFMARVIIDNKDGPTQKY  
 LLIFGAFVSVYIQEMFRFAYYKLLKKASEGLKSINPGETAPSMRLLAYAFMTLVIILLHVFVWGIVFFDGC  
 EKKKKGILLIVLLTHLLVSAQTFISSYYGINLASAFIILVLMGTWAFLAAGGSCRSLKCLLCQDKNFLL  
 YNQRSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1433\\_f08.zip](https://cdn.origene.com/chromatograms/ja1433_f08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001145646

**ORF Size:** 648 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\\_001145646.1](#), [NP\\_001139118.1](#)

**RefSeq ORF:** 651 bp

**Locus ID:** 83464

**UniProt ID:** [Q8WW43](#)

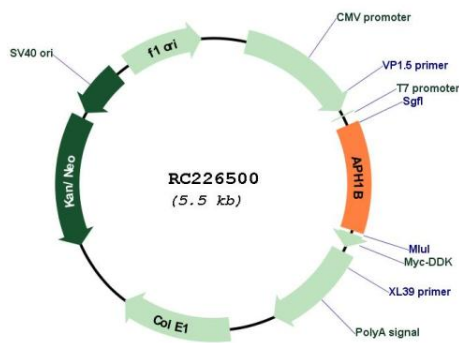
**Cytogenetics:** 15q22.2

**Protein Families:** Transmembrane

**MW:** 24.1 kDa

**Gene Summary:** This gene encodes a multi-pass transmembrane protein that is a functional component of the gamma-secretase complex, which also contains presenilin and nicastrin. This protein represents a stabilizing cofactor for the presenilin holoprotein in the complex. The gamma-secretase complex catalyzes the cleavage of integral proteins such as notch receptors and beta-amyloid precursor protein. [provided by RefSeq, Sep 2011]

**Product images:**



Circular map for RC226500