

Product datasheet for **SC330177**

APH1A (NM_001243771) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: APH1A (NM_001243771) Human Untagged Clone
Tag: Tag Free
Symbol: APH1A
Synonyms: 6530402N02Rik; APH-1; APH-1A; CGI-78
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC330177 representing NM_001243771.
Blue=Insert sequence **Red**=Cloning site **Green**=Tag(s)

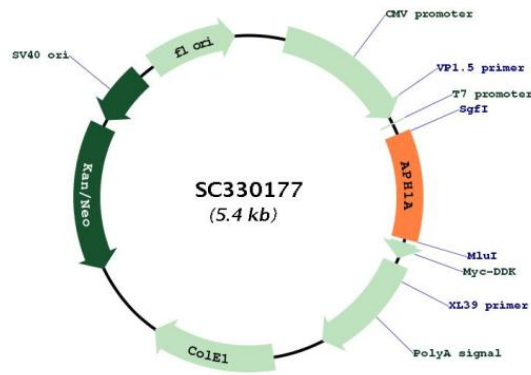
```
ATGGGGGCTGCGGTGTTTTTCGGCTGCACTTTCGTGCGGTTGGCCCGGCCTTCGCGCTTTTCTTGATC
ACTGTGGCTGGGGACCCGCTTCGCGTTATCATCCTGGTCGCAGGGAAGGCAGATGAGGGTTAGCATCG
CTGAGTGAGGACGGAAGATCACCCATCTCCATCCGCCAGATGGCCTATGTTTCTGGTCTCTCCTTCGGT
ATCATCAGTGGTGTCTTCTGTATCAATATTTGGCTGATGCACTTGGGCCAGGTGTGGTTGGGATC
CATGGAGACTCACCTATTACTCCTGACTTCAGCCTTTCTGACAGCAGCCATTATCCTGCTCCATACC
TTTTGGGGAGTTGTGTTCTTTGATGCCTGTGAGAGGAGACGGTACTGGGCTTTGGGCCTGGTGGTTGGG
AGTCACCTACTGACATCGGGACTGACATTCCTGAACCCCTGGTATGAGGCCAGCCTGCTGCCCATCTAT
GCAGTCACTGTTTCCATGGGGCTCTGGGCCTTCATCACAGCTGGAGGGTCCCTCCGAAGTATTCAGCCG
AGCCTCTTGTAAGGACTGA
```

Restriction Sites: Sgfl-Mlul



[View online »](#)

Plasmid Map:



ACCN: NM_001243771

Insert Size: 573 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001243771.1](#)

RefSeq Size: 2119 bp

RefSeq ORF: 573 bp

Locus ID: 51107

UniProt ID: [Q96BI3](#)

Cytogenetics: 1q21.2

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Alzheimer's disease, Notch signaling pathway

MW: 20.2 kDa

Gene Summary: This gene encodes a component of the gamma secretase complex that cleaves integral membrane proteins such as Notch receptors and beta-amyloid precursor protein. The gamma secretase complex contains this gene product, or the paralogous anterior pharynx defective 1 homolog B (APH1B), along with the presenilin, nicastrin, and presenilin enhancer-2 proteins. The precise function of this seven-transmembrane-domain protein is unknown though it is suspected of facilitating the association of nicastrin and presenilin in the gamma secretase complex as well as interacting with substrates of the gamma secretase complex prior to their proteolytic processing. Polymorphisms in a promoter region of this gene have been associated with an increased risk for developing sporadic Alzheimer's disease. Alternative splicing results in multiple protein-coding and non-protein-coding transcript variants. [provided by RefSeq, Aug 2011]

Transcript Variant: This variant (3) lacks a 5' exon and contains an alternate segment at the 3'end that results in a frameshift and premature stop codon, compared to variant 1. This variant encodes an isoform (3) with a shorter N-terminus and a shorter and distinct C-terminus, compared to isoform 1.