

## Product datasheet for **SC330178**

### APH1A (NM\_001243772) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	APH1A (NM_001243772) Human Untagged Clone
Tag:	Tag Free
Symbol:	APH1A
Synonyms:	6530402N02Rik; APH-1; APH-1A; CGI-78
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC330178 representing NM_001243772. Blue=Insert sequence Red=Cloning site Green=Tag(s)

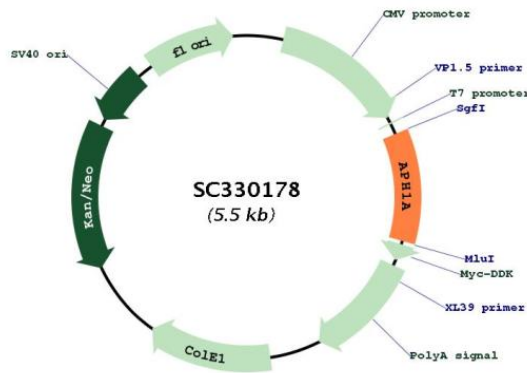
```
ATGGGGGCTGCGGTGTTTTTCGGCTGCACTTTCGTGCGGTTGGCCCGGCCTTCGCGCTTTTCTTGATC
ACTGTGGCTGGGGACCCGCTTCGCGTTATCATCCTGGTCGCAGGGAGGTGTTCCGCTTTCCTACTACA
AGCTGCTTAATTTCTGGTCTCTCCTTCGGTATCATCAGTGGTGTCTTCTCTGTTATCAATATTTGGCT
GATGCACTTGGGCCAGGTGTGGTGGGATCCATGGAGACTCACCTATTACTTCTGACTTCAGCCTTT
CTGACAGCAGCCATTATCCTGCTCCATACCTTTTGGGGAGTTGTGTTCTTTGATGCCTGTGAGAGGAGA
CGGTACTGGGCTTGGGCCTGGTGGTGGGAGTCACCTACTGACATCGGGACTGACATTCCTGAACCCC
TGGTATGAGGCCAGCCTGCTGCCATCTATGCAGTCACTGTTTCCATGGGGCTCTGGGCCTTCATCACA
GCTGGAGGGTCCCTCCGAAGTATTCAGCGCAGCCTCTTGTGCCGACGGCAGGAGGACAGTCGGGTGATG
GTGATTCTGCCCTGCGCATCCCACCCGAGGACTGA
```

Restriction Sites: Sgfl-Mlul



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Plasmid Map:



ACCN: NM\_001243772

Insert Size: 588 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\\_001243772.1](#)

**RefSeq Size:** 1742 bp

**RefSeq ORF:** 588 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:** 21 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 (4) lacks a 5' exon and lacks a segment of a 5' exon, compared to variant 1. This variant encodes an isoform (4) with a shorter and distinct N-terminus, compared to isoform 1.