

Product datasheet for **SC324158**

APH1A (NM_001077628) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APH1A (NM_001077628) Human Untagged Clone
Tag:	Tag Free
Symbol:	APH1A
Synonyms:	6530402N02Rik; APH-1; APH-1A; CGI-78
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001077628.1
 AGGAAGTGGCGCGGACCTTCATTTGGGGTTTCGGTTCCCCCCTTCCCCTTCCCCGGGT
 CTGGGGGTGACATTGCACCGGCCCTCGTGGGGTCGCGTTGCCACCCACGCGGACTCC
 CCAGCTGGCGGCCCTCCCATTTGCCTGTCTGGTCAGGCCCCACCCCTTCCCACC
 TGACCAGCCATGGGGCTGCGGTGTTTTTCGGCTGCACTTTCGTCGCGTTCGGCCGGCC
 TTCGCGCTTTTCTTGATCACTGTGGCTGGGACCCGCTTCGCGTTATCATCTGGTCGCA
 GGGGCATTTTTCTGGCTGGTCTCCCTGCTCCTGGCCTCTGTGGTCTGGTTCATCTGGTC
 CATGTGACCGACCGGTACAGATGCCCGGCTCCAGTACGGCCTCCTGATTTTTGGTGTCTGCT
 GTCTCTGTCTTCTACAGGAGGTTCGCTTTCCTACTACAAGCTGCTTAAGAAGGCA
 GATGAGGGGTTAGCATCGCTGAGTGAGGACGGAAGATCACCCATCTCCATCCGCCAGATG
 GCCTATGTTTCTGGTCTCCTTCGGTATCATCAGTGGTGTCTTCTGTATCAATATT
 TTGGCTGATGCACTTGGCCAGGTGTGGTGGGATCCATGGAGACTCACCTATTACTTC
 CTGACTTCAGCCTTCTGACAGCAGCCATTATCCTGCTCCATACCTTTTGGGAGTTGTG
 TTCTTTGATGCCTGTGAGAGGAGACGGTACTGGGCTTTGGCCTGGTGGTGGGAGTCAC
 TACTGACATCGGACTGACATTCTGAACCCCTGGTATGAGGCCAGCCTGCTGCCATC
 TATGCAGTCACTGTTCCATGGGCTCTGGGCCTTCATCACAGCTGGAGGGTCCCTCCGA
 AGTATTACAGCGCAGCCTCTGTGCCGACGGCAGGAGGACAGTCCGGTGATGGTGTATTCT
 GCCCTGCGCATCCACCCGAGGACTGAGGGAACCTAGGGGGGACCCCTGGGCCTGGGGTG
 CCCTCCTGATGCTCCTCGCCCTGTATTTCCATCTCCAGTTCTGGACAGTGCAGGTTGCC
 AAGAAAAGGGACCTAGTTTAGCCATTGCCCTGGAGATGAAATTAATGGAGGCTCAAGGAT
 AGATGAGCTCTGAGTTTCTCAGTACTCCCTCAAGACTGGACATCTGGTCTTTTTCTCAG
 GCCTGAGGGGGAACCATTTTTGGTGTGATAAATACCCTAACTGCCTTTTTTCTTTTTT
 GAGTGGGGGAGGGAGGAGGTATATTGGAACCTTCTAACCTCCTTGGGCTATATTTTC
 TCTCTCGAGTTGCTCCTCATGGCTGGGCTCATTTTCGGTCCCTTCTCCTTGGTCCCAGA
 CCTTGGGGGAAAGGAAGGAAGTGCATGTTTGGAACTGGCATTACTGAACTAATGGTTT
 TAACCTCCTTAACCACCAGCATCCCTCCTCCTCCCAAGGTGAAGTGGAGGGTGCTGTGGT
 GAGCTGGCCACTCCAGAGCTGCAGTCCACTGGAGGAGTCAGACTACCATGACATCGTAG
 GGAAGGAGGGGAGATTTTTTGTAGTTTTTAATTGGGGTGTGGGAGGGCGGGGAGGTTT
 TCTATAAACTGTATCATTTTTCTGCTGAGGGTGGAGTGCCCATCCTTTAATCAAGGTGA
 TTGTGATTTTGACTAATAAAAAAGAATTTGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AA

Restriction Sites: ECoRI-NOT

ACCN: NM_001077628

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001077628.1 , NP_001071096.1
RefSeq Size:	1875 bp
RefSeq ORF:	798 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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1; also known as isoform L).</p>