

# Product datasheet for RC232052

### APH1A (NM\_001243771) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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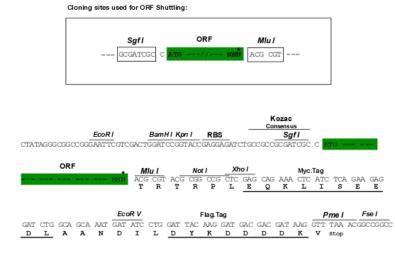
Product Type:	Expression Plasmids
Product Name:	APH1A (NM_001243771) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	APH1A
Synonyms:	6530402N02Rik; APH-1; APH-1A; CGI-78
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232052 representing NM_001243771 <mark>Red</mark> =Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGGGGCTGCGGTGTTTTTCGGCTGCACTTTCGTCGCGTTCGGCCCGGCCTTCGCGCTTTTCTTGATCA CTGTGGCTGGGGACCCGCTTCGCGTTATCATCCTGGTCGCAGGGAAGGCAGATGAGGGGGTTAGCATCGCT GAGTGAGGACGGAAGATCACCCATCTCCATCCGCCAGATGGCCTATGTTTCTGGTCTCTCCTTCGGTATC ATCAGTGGTGTCTTCTCTGTTATCAATATTTTGGCTGATGCACTTGGGCCAGGTGTGGGTTGGGATCCATG GAGACTCACCCTATTACTTCCTGACTTCAGCCTTTCTGACAGCAGCCATTATCCTGCTCCATACCTTTTG GGGAGTTGTGTTCTTTGATGCCTGTGAGAGGAGACGGTACTGGGCCTGGGTGGG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	>RC232052 representing NM_001243771 Red=Cloning site Green=Tags(s)
	MGAAVFFGCTFVAFGPAFALFLITVAGDPLRVIILVAGKADEGLASLSEDGRSPISIRQMAYVSGLSFGI ISGVFSVINILADALGPGVVGIHGDSPYYFLTSAFLTAAIILLHTFWGVVFFDACERRRYWALGLVVGSH LLTSGLTFLNPWYEASLLPIYAVTVSMGLWAFITAGGSLRSIQRSLLCKD
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	Sgfl-Mlul



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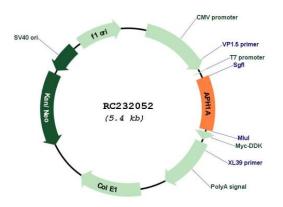


#### **Cloning Scheme:**



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

#### Plasmid Map:



ACCN:	NM_001243771
ORF Size:	570 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. <u>More info</u>
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).

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## **PORIGENE** APH1A (NM\_001243771) Human Tagged ORF Clone – RC232052

Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 001243771.1, NP 001230700.1</u>
RefSeq Size:	2119 bp
RefSeq ORF:	573 bp
Locus ID:	51107
UniProt ID:	<u>Q96BI3</u>
Cytogenetics:	1q21.2
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Alzheimer's disease, Notch signaling pathway
MW:	20.7 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

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variants. [provided by RefSeq, Aug 2011]